



Feasibility Study

P-1 Plume Area

Former Emerson Street Landfill

NYSDEC Site #828023

Location:

1700 Emerson Street

Rochester, New York 14606

Prepared for:

City of Rochester

Division of Environmental Quality

Room 300-B

Rochester, New York 14614

LaBella Project No. 210173

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Abbreviations:

BTEX	Benzene, toluene, ethylbenzene, xylenes
bgs	below ground surface
btr	below top of rock
cm/s	centimeters per second
CSIA	Compound Specific Isotope Analysis
CVOCs	Chlorinated Volatile Organic Compounds
CY	Cubic yards
DBW	Deep bedrock well
DER	Division of Environmental Remediation
DHC	Dehalococcoides
DHBt	Dehalobacter
DNAPL	Dense non-aqueous phase liquid
EC	Engineering Control
EPA	Environmental Protection Agency



ELAP	Environmental Laboratory Accreditation Program
ERH	Electrical Resistance Heating
FESL	Former Emerson Street Landfill
FS	Feasibility Study
fmsl	feet above mean sea level
ft/day	feet per day
IC	Institutional Control
IHWDS	Inactive Hazardous Waste Disposal Site
ISCR	In-situ chemical reduction
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
MIP	Membrane interface probe
MNA	Monitored Natural Attenuation
mV	millivolts
NAPL	Non-aqueous phase liquid
ND	non-detect
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
ORP	Oxidation Reduction Potential
PCE	Tetrachloroethene, tetrachloroethylene
PID	photoionization detector
ppb	parts per billion
ppm	Parts per million
PDB	Passive diffusion bags
PRB	Permeable reactive barrier
RI	Remedial Investigation
RPSCOs	Remedial Program Soil Cleanup Objectives
RQD	Rock Quality Designation
SBW	Shallow bedrock well
SCGs	Standards, Criteria and Guidelines
Sq. ft.	square feet
SVI	Soil Vapor Intrusion
TCE	Trichloroethene
TOC	Total organic carbon
TOGS	Technical & Operational Guidance Series
VC	Vinyl chloride
VOCs	Volatile Organic Compounds
ZVI	Zero valent iron



CERTIFICATION

"I DANIEL NOLL certify that I am currently a NYS registered professional engineer and that this Feasibility Study was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10)."



081996

NYS Professional Engineer #

4/15/19

Date

D. P. Noll

Signature



Executive summary

Background

This Feasibility Study (FS) was developed for the P-1 Plume located at 1700 Emerson Street in the City of Rochester, Monroe County, New York on the Former Emerson Street Landfill (FESL) (refer to Figure 1). The FESL consists of approximately 250-acres of land comprised of 45 individual parcels of which 7 are owned by the City of Rochester. The FESL operated as a municipal landfill beginning between sometime in the 1940s and 1951 until 1971. This FS is submitted as part of the Order on Consent and Administrative Settlement #B8-0798-09-01 and was completed in accordance with New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) *Technical Guidance for Site Investigation and Remediation* (“DER-10”). A Remedial Investigation (RI) was conducted from 2012-2017 and built upon previous investigations at the Site completed in the late 1980s, 1994 and 2001. A portion of the FESL that includes three parcels addressed as 1660, 1700 and 1740 Emerson Street is designated by the New York State Department of Environmental Conservation (NYSDEC) as Inactive Hazardous Waste Disposal Site (IHWDS) Site #828023 (refer to Figure 2). The purpose of the RI was to investigate a plume of chlorinated volatile organic compounds (CVOCs) emanating from the 1700 Emerson Street parcel (formerly part of the 1655 Lexington Avenue parcel) which is located in the portion of the FESL where direct burial of unincinerated waste occurred in the late 1960s just before landfill closure. The plume of CVOCs has been designated as the P-1 Plume. Previous investigations conducted since the 1980s have investigated the FESL and have not identified significant CVOC impacts associated with FESL-related releases with the exception of the P-1 Plume (refer to Figure 3). Furthermore, soil vapor intrusion (SVI) assessments conducted from 2009-2017 across the FESL have not identified FESL-related SVI in Site Buildings with the exception of the closest downgradient building to the P-1 Plume (i.e., located on the adjoining 1740 Emerson Street parcel).

Conceptual Site Model

During the last years of filling at the FESL or potentially after closure of the FESL, it appears some non-municipal waste was placed in the landfill in the vicinity of P-1 and more specifically in the area encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10 (refer to Figure 4 for locations). This is supported by a review of aerial photographs, test pits, high concentrations of impacts in the overburden/ fill on top of bedrock, the presence of the greatest concentrations of CVOCs in A Zone groundwater, and bedrock matrix samples. The A-Zone is comprised of the upper 3-ft of highly fractured and weathered top of bedrock and includes the lowermost portion of saturated overburden, where present.

NAPL and/or highly impacted groundwater appear to have migrated laterally and vertically from this source area. Based on rock matrix analysis, impacts migrated to the southeast to LAB-SBW-05 in the A Zone and Upper B Zone. The Upper B Zone spans the bedrock thickness between the A-Zone and B-Zone (3-8-feet (ft) below top of rock (btr)). Impacts (not NAPL) further migrated laterally to the west and southwest (LAB-SBW-13 and LAB-SBW-14) and to the south (LAB-SBW-15 and LAB-SBW-16) into the B Zone. This is evidenced by

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greater concentrations of CVOCs in the B Zone than in the A Zone in these locations. Impacts have not migrated at significant concentrations laterally to the southeast or vertically to the C or D Zones defined as 16-25-ft btr and greater than 25-ft btr, respectively.

As the impacts have migrated downward vertically and laterally, natural degradation has been occurring. This is evidenced by greater concentrations of daughter compounds than parent compounds in bedrock groundwater. In addition the source edge bedrock samples have a higher proportion of daughter compounds than the samples in the source area. Furthermore, the overall P-1 Plume area has decreased since 2000 and concentrations of total CVOCs have declined. The source area of CVOCs in groundwater (encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10) is approximately 16,000 sq. ft. as shown on Figure 5.

In accordance with the EPA Technical Protocol Table 2.4 evaluation that was performed as part of the RI, there is “*Adequate Evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics*”. Additionally, compound-specific isotope analysis (CSIA) results indicate natural transformation of parent material (PCE and TCE) to daughter products is occurring. The mechanism for transformation was evaluated using Bio-Trap samplers. Analytical results indicate the presence of DHC (Dehalococcoides) and DHBt (Dehalobacter) in population ranges capable of natural biodegradation of CVOCs in the P-1 study area; however, biodegradation appears to be incomplete prior to regulated contaminants leaving the property boundary. This is supported by the fact that chloroethane, cis-1,2-dichloroethene, and vinyl chloride are detected in the downgradient wells (GMX-MW-3, LAB-SBW-15 and LAB-SBW-16). Refer to Figure 5 for a conceptual Site model of the P-1 Plume.

It should be noted that the RI included assessment of 1,4-dioxane and perfluorinated compounds (PFCs). Based on relatively minor exceedances of NYSDEC criteria and the fact that surrounding properties are serviced by City drinking water, these compounds are assumed to not require active remediation and thus are not included in the assessment for remedial alternatives.

P-1 Plume Pilot Test

A pilot test was conducted to assess a potential remedial technology to be implemented for remediation of the P-1 Plume. The Pilot Test Work Plan was conditionally approved by the NYSDEC in a letter dated September 28, 2017. The pilot test assessed the viability of in-situ chemical reduction (ISCR) via a permeable reactive barrier (PRB) consisting of zero valent iron (ZVI). The PRB was installed via two (2) different injection technologies; 1) blast-enhanced bedrock trench; and 2) pneumatic injections. The pilot test commenced in October 2017 and was completed in November 2017. Groundwater monitoring was conducted approximately 2 months, 3.5 months, and 7 months subsequent to the ISCR pilot test injections. The pilot test and monitoring results were documented in a *Pilot Test Monitoring Report* dated April 2019 included as Appendix 1 (note this report is not yet approved by NYSDEC and NYSDOH). Based on the pilot test results, ZVI would be successful in constructing a PRB to meet the remedial action objectives and both delivery methods would be successful in constructing a PRB to meet the remedial action objectives.



Evaluation of Alternatives

An initial identification and screening of alternatives was conducted to select remedial alternatives for further evaluation. The following table represents alternatives initially screened for the P-1 Plume.

P-1 Plume Initial Screening of Remedial Alternatives

General Remedial Scenario	Remedial Technology	Selected for Further Evaluation	Explanation
No action	None	No	No action will not meet any of the criteria in DER 10 Section 4.2.
In-Situ Biological Treatment	Enhanced Bioremediation	No	Microorganisms are present and biological treatment is occurring.
	Bioventing	No	Microorganisms are present and biological treatment is occurring.
	Monitored Natural Attenuation (MNA)	Yes	Natural attenuation of CVOCs in groundwater is occurring.
In-Situ Chemical/ Physical Treatment	Chemical Oxidation	No	Due to high chemical oxidant demand of bedrock matrix, chemical oxidation is not feasible.
	Chemical Reduction	Yes	Potential source treatment and permeable reactive barrier.
	Thermal Treatment	Yes	Potential source treatment.
	Dual Phase Extraction	Yes	Treat contaminated groundwater and soil vapor.
Ex-Situ Chemical/ Physical Treatment	Excavation	Yes	Source removal option.
	Pump and Treat	Yes	Treat contaminated groundwater on-Site.
	Bioreactor	No	Large volume of contaminated media.
Containment	Grout Wall	No	Groundwater gradient is not steep. Large aerial extent of plume.
	Cap/ Cover	Yes	Limit exposure to subsurface contaminants.

The following alternatives were selected for further evaluation:

- Excavation
- Thermal Treatment - Electrical Resistance Heating (ERH)
- Groundwater Extraction and Ex-Situ Treatment System
- In-Situ Source Treatment and Permeable Reactive Barrier (PRB)

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- PRB with monitored natural attenuation (MNA)
- MNA
- Cap/ Cover

The alternatives were evaluated based on the following criteria as defined in NYSDEC DER-10 Section 4.2:

- Overall Protection of Human Health and the Environment
- Compliance with Standards, Criteria and Guidelines (SCGs)
- Long-Term Effectiveness
- Short-Term Impact and Effectiveness
- Reduction of Toxicity, Mobility, or Volume
- Ease of Implementation
- Cost-Effectiveness
- Appropriate based on Future Anticipated Land Use
- Green Remediation

Community acceptance will be evaluated during a public comment period; as such, community acceptance is not evaluated herein. The following table summarizes the results of the evaluation.



Summary of Evaluation of Alternatives – P-1 Plume

Alternative	Protection of Human Health and the Environment	Compliance with SCGs	Long-Term Effectiveness	Short-Term Effectiveness	Reduction of Toxicity, Mobility or Volume	Ease of Implementation	Cost-Effective	Appropriate based on Future Anticipated Land Use	Green
A. Excavation		X	X	X	X			X	
B. Electrical Resistance Heating	X	X	X	X	X			X	X
C. Groundwater Extraction and Ex-Situ Treatment System	X	X*	X	X	X			X	
D. In-Situ Source Treatment with PRB	X	X*		X	X			X	X
E. Permeable Reactive Barrier with Monitored Natural Attenuation	X	X*	X	X	X	X	X	X	X
F. Monitored Natural Attenuation		X*	X			X	X	X	X

Shaded row indicates selected alternative.

* indicates alternative will comply with SCGs in the top 1-ft with ICs and ECs in place and SCGs may be achieved in the subsurface in the long term as CVOCs in groundwater degrades via natural attenuation. A cap/ cover will be applied for all alternatives to meet SCGs in the top 1-ft across the entire Site.

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A cost comparison is provided below.

Alternative		Capital Cost	O&M Present Value (30 years)	Total Present Value (with 30 year O&M)
A	Excavation	\$ 24,483,000	\$ 208,000	\$ 24,691,000
B	ERH	\$ 5,581,000	\$ 208,000	\$ 5,789,000
C	Groundwater Extraction and Ex-Situ Treatment System	\$ 2,931,000	\$ 1,497,000	\$ 4,428,000
D1	In-Situ Source Treatment with PRB (blasted bedrock trench)	\$ 4,878,000	\$ 1,754,000	\$ 6,632,000
D2	In-Situ Source Treatment with PRB (pneumatic)	\$ 5,115,000	\$ 1,971,000	\$ 7,086,000
E1	PRB & MNA (blasted bedrock trench)	\$ 1,553,000	\$ 1,755,000	\$ 3,308,000
E2	PRB & MNA (pneumatic)	\$ 1,777,000	\$ 1,919,000	\$ 3,696,000
F	MNA	\$ 1,039,000	\$ 463,000	\$ 1,502,000

The recommended alternative is PRB with MNA. While the blast enhanced bedrock trench injection method is more cost effective than the pneumatic injection method, the delivery method will be selected and determined and detailed in a Remedial Action Work Plan.

In addition to the recommended PRB with MNA, institutional controls (ICs) and engineering controls (ECs) will be implemented in order to comply with applicable SCGs. A cover system will be constructed over the 1700 Emerson Street parcel as an EC to prevent exposure to subsurface material and comply with SCGs. Costs for constructing the cover system and preparing/ implementing ICs including SMP and environmental easement, is included in each alternative.



1. Introduction

This Feasibility Study (FS) was developed for the P-1 Plume located at 1700 Emerson Street (formerly 1655 Lexington Avenue) in the City of Rochester, Monroe County, New York on the Former Emerson Street Landfill (FESL) (refer to Figure 1). This FS was completed in accordance with New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) *Technical Guidance for Site Investigation and Remediation* (“DER-10”). A Remedial Investigation (RI) was conducted from 2012-2017 which built upon previous investigations completed at the Site in the late 1980s, 1994 and 2001. Previous investigations have evaluated groundwater across the FESL and have identified one (1) chlorinated volatile organic compound (CVOC) groundwater plume associated with the FESL, known as the P-1 Plume located at 1700 Emerson Street.

A portion of the FESL is designated as Inactive Hazardous Waste Disposal Site (IHWDS) Site #828023. A majority of the FESL has been delisted from the IHWDS; however, three (3) parcels (1660, 1700, and 1740 Emerson Street) comprising approximately sixteen (16) acres are currently listed as a Class 3 site on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites. A “3” classification indicates a site “at which contamination does not presently constitute significant threat to public health or the environment.” For the purpose of this evaluation, “the Site” refers to the IHWDS Site including 1660, 1700 and 1740 Emerson Street (refer to Figure 2).

On December 9, 2014 LaBella submitted a Delisting Petition for the parcel currently addressed as 1655 Lexington Avenue (formerly 1635 Lexington Avenue and a portion of former 1655 Lexington Avenue) to delist approximately 13.3 acres of land from the NYSDEC Registry of IHWDS. The NYSDEC approved this delisting on March 19, 2015, and the newly delisted land was combined into one parcel with an address of 1655 Lexington Avenue. The remaining portion of former 1655 Lexington Avenue was renamed 1700 Emerson Street.

The City entered into an Order-On-Consent with the NYSDEC in 2009. The Order-on-Consent initially required the development and implementation of a soil vapor intrusion (SVI) Work Plan. The SVI Work Plan was developed, approved by NYSDEC and implemented from 2009-2011. The work included soil and groundwater sampling across the FESL as well as SVI assessments at buildings on the FESL. The findings of the initial SVI assessment were detailed in a report titled *Soil Vapor Intrusion Assessment Report: Data Review, Site Screening & Site Prioritization* dated June 2011 (hereinafter referred to as the “2011 SVI Assessment Report”). The 2011 SVI Assessment Report identified several buildings at a risk of SVI due to the FESL. Subsequently, a work plan titled *Soil Vapor Intrusion Investigation Work Plan: Phase II Parcel Specific Investigation* (hereinafter referred to as the “SVI Work Plan”) was submitted to the NYSDEC and NYSDOH in April 2013 to complete SVI sampling within the buildings determined to be at high risk for SVI due to the FESL. The NYSDEC and NYSDOH provided comments to the SVI Work Plan on April 23, 2015 and the SVI Work Plan Work Plan was resubmitted in January 2016 to address the NYSDEC and NYSDOH comments. The SVI Work Plan was implemented beginning in March 2016 and two (2) of the seven (7) buildings tested required mitigation; 575 Colfax Street and 1740 Emerson Street. It should be noted that only the 1740 Emerson Street building was determined to require mitigation as a result of CVOCs due to the FESL (i.e., the P-1 Plume). The owners of 575 Colfax Street and 1740 Emerson Street were notified



about SVI conditions. Subsequently, mitigation systems were installed/ activated in the buildings at 575 Colfax Street and 1740 Emerson Street and Construction Completion Reports have been provided to the NYSDEC and NYSDOH for review in September 2018 (these reports have not yet been approved by NYSDEC and NYSDOH).

The findings of the SVI Investigation were detailed in a draft report titled *Soil Vapor Intrusion Investigation Report* dated March 2018. This report has not yet been approved by the NYSDEC and NYSDOH. For properties where SVI testing was completed and it was determined that SVI mitigation was not warranted, property-specific reports were developed, approved by the NYSDEC and NYSDOH, and provided to each property owner. Owners of properties that did not warrant SVI testing were notified that no further work was required due to the FESL. The above reports should be referenced for additional details regarding SVI at the FESL. Based on the work completed to investigate and address SVI, SVI is no longer considered a complete exposure pathway at the Site and any remedy will include these engineering controls.

Previous investigations have been conducted at the FESL since the 1980s, which includes the most recent Remedial Investigation (RI) for the P-1 Plume that was conducted in accordance with the *Remedial Investigation Work Plan: P-1 Plume Area* dated November 2012 and five (5) subsequent addenda. The purpose of the RI was to define the nature and extent (areal and vertical extent) of VOCs, specifically CVOCs in soil, fill, groundwater and the bedrock matrix in the vicinity of the P-1 Plume. Previous investigations have identified CVOCs including trichloroethene (TCE), tetrachloroethylene (PCE) and breakdown compounds (mainly vinyl chloride and cis-1,2-dichloroethene) in groundwater at concentrations up to 69 parts per million (ppm) total CVOCs in groundwater.

2. Site Description and History

The FESL consists of approximately 250-acres of land comprised of 45 individual parcels of which 7 are owned by the City of Rochester (Refer to Figure 2 for FESL footprint). The remaining 38 parcels are owned by 25 private owners. The FESL is predominantly occupied by industrial and commercial properties (15 and 20, respectively based on use codes). In addition, City use codes indicate 5 parcels as vacant land, one parcel as unknown (McCrackanville Street) and 4 parcels are listed as community/public service (one of which is a school, Edison Tech). The surrounding area generally contains industrial and commercial properties. Residential properties are also located to the northeast. The three (3) parcels included in the IHWDS (1660, 1700, and 1740 Emerson Street) are zoned M-1, Industrial District.

Prior to FESL landfilling operations, the area was primarily vacant and relatively flat lying, with a wetland located in the north-central portion of the site. As a result of landfilling activities, the FESL site has been elevated approximately 15+ feet above the surrounding area. An industrial park presently occupies most of the FESL site, including larger facilities and various smaller industrial/commercial facilities, as well as several undeveloped parcels and undeveloped land on otherwise developed parcels.

The FESL was operated by the City as a landfill beginning between sometime in the 1940s until 1971. The landfill was used to dispose of ash derived from the incineration of municipal solid waste at the City's incinerators which were located south of Emerson Street and east of Colfax Street on

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the FESL. Ash fill and construction and demolition debris were the primary waste materials placed in the landfill. Landfilling began south of Emerson Street and gradually expanded northward and eastward to include areas between Emerson Street, Lexington Avenue, Colfax Street and Lee Road, and south of Emerson Street to the east and west of Colfax Street. Fires due to incomplete incineration of municipal solid waste and open burning of refuse reportedly occurred in the late 1960s and early 1970s due to operational problems with the incinerators. Fill during this timeframe was north of Emerson Street. In May of 1971, the City's incinerators were shut down; however, un-incinerated municipal refuse continued to be placed north of Emerson Street until August of 1971. In August 1971, refuse disposal was ceased at FESL and disposal shifted to a different county landfill. In 1971, the landfill was officially closed and a contract for the closure of the eastern half of the landfill specified 2 feet of cover material (preferred to be a sandy loam) to be placed and compacted to 30% in 1 foot lifts. In September 1971, a contract was awarded for the closure of the western portion of the landfill. Since closure, portions of the Site have been developed by various private parties.

The general types of wastes encountered during investigations at the FESL site include the following:

- Municipal Incinerator Ash - generally consisting of ash, cinders, charred refuse, glass and metal slag. Most ash observed in site investigations appears to be fly ash and bottom ash (clinker) from the municipal solid waste incinerators. This generally consists of soil and rock fill with traces of plastic, metal, wood, concrete, bricks, tiles, and asphalt. Construction and demolition debris observed in past investigations generally fits the definition of construction and demolition debris contained in NYSDEC's Part 360. Construction demolition debris fill is common in areas adjacent to current and former roadways on site, and particularly in the lobe of fill south of Emerson Street and east of Colfax Street.
- Soil and Municipal Refuse - This material generally consists of silty sand cover material and disposed, un-incinerated municipal refuse.
- Low-activity Radioactive Waste - This material was encountered in a small area south of Emerson Street and consisted of a sludge-like waste material associated with glass lenses. The sludge was found to contain low levels of radioactive thorium. This material was primarily encountered in a relatively small area in the southwest portion of the FESL and was associated with incinerator ash and refuse fills. This material was removed by Severson Environmental Services on behalf of the City of Rochester.
- The majority of the existing landfill has a soil cover. Cover ranges in thickness from 0 ft. up to approximately 6 ft. Cover materials generally consist of topsoil with grass, gravel, asphalt, or glacial till-derived sandy silt.

The FESL can be separated into four general geographic regions, or quadrants, based on the landfill waste composition aerial photograph interpretation of landfill deposition, and historic analytical data. Refer to Figure 3 for quadrant locations. A summary of the types of waste at each quadrant is as follows:

Quadrants A and B (North of Emerson Street, East of Lee Road, West of Colfax Street):

Portions of Quadrants A and B were filled during the 1970's, the last years of the landfill's operational life. At this time the incinerator was no longer operating properly, resulting in un-incinerated putrescible waste being deposited in the landfill during that period. These portions of the landfill are characterized by thicker fill, higher percentage of potentially putrescible solid



waste and less incinerated ash, and higher landfill gas flux at the surface relative to other FESL areas sampled. These areas are characterized by landfill gas flux measurements between 100 and 1200 $\mu\text{g}/\text{m}^2\text{-minute}$, and/or soil gas methane concentrations above 5,000 ppm. In addition, these quadrants have also been characterized with CVOC contamination in soil gas, soil, and groundwater. Quadrant A is distinguishable from Quadrant B by a large area of documented CVOC contamination present in Quadrant A. The listed IHWDS portions of the landfill (i.e., 1660m 1700 and 1740 Emerson Street) are located within Quadrant A.

Quadrant C (South of Emerson Street, East of Colfax Street):

Quadrant C is characterized by thinner fill, lower percentage of potentially putrescible solid waste and more incinerated ash, and intermediate landfill gas flux at the surface relative to other FESL areas sampled. This area is characterized by landfill gas flux measurements below 50 $\mu\text{g}/\text{m}^2\text{-minute}$. It has been hypothesized that the gas detections may be related to the presence of organic rich marsh-derived soils at depth in this area, as opposed to landfill related gas. There is also an area of CVOC contamination in this quadrant.

Quadrant D (South of Emerson Street, West of Colfax Street):

Quadrant D is characterized by thinner fill, lower percentage of potentially putrescible solid waste and ash that was more efficiently and completely incinerated, and lower landfill gas flux at surface relative to other FESL areas sampled. This area is characterized by landfill gas flux measurements between 50 and 200 $\mu\text{g}/\text{m}^2\text{-minute}$. In addition, there are several small areas of CVOC contamination in this quadrant, which may be the result of post-landfill industrial activity as opposed to landfill operations. State and federal wetlands are also located within this quadrant.

3. Previous Investigations

A significant number of investigations have been previously conducted across the FESL. In addition to investigation reports, there are two (2) current guidance documents applicable to Site development on the FESL:

- *Former Emerson Street Landfill Sub-Slab Ventilation Guidance Document Update 2013* by LaBella dated October 2013
- *Guidance for Waste-fill Management During Site Development on the Former Emerson Street Landfill* by LaBella dated October 2013

The following subsections include a summary of recent relevant reports; a more detailed review can be obtained from each individual report.

3.1 Soil Vapor Intrusion

This subsection summarizes relevant SVI reports completed for the FESL.

Soil Vapor & Intrusion Assessment Report (SVI Assessment Report) dated June 2011:

LaBella conducted a SVI assessment including a detailed review of historic information available for the Site. The historic information included not only previous subsurface environmental investigations but also a detailed review of aerial photography, subsurface data



from redevelopment projects (i.e., geotechnical borings and test pits), available newspaper articles from the time the landfill was operating, and reports/papers relating to City of Rochester and Monroe County waste handling and disposal practices both historically and in particular in the 1960s/1970s. In addition, groundwater sampling of existing wells was completed, additional groundwater monitoring wells were installed, developed and sampled and a site reconnaissance was conducted at every parcel where access was granted by the property owner.

The results of the cumulative work were utilized in a ranking system that used weighted numerous criteria for each building based on non-FESL factors and FESL-related factors.

The weighting/prioritization work resulted in developing three scores for each property: 1) FESL related factors score, 2) Non-FESL related factors score, and 3) overall prioritization score. The overall scores were separated into three “Tiers” of sites. Tier 1 sites were determined to be of the highest concern for SVI due to the FESL, Tier 2 sites were determined to be of moderate to low concern for SVI due to the FESL and Tier 3 sites were determined to be of low to no concern for SVI due to FESL.

Tier 1 Properties: The initial SVI assessment identified eight (8) buildings as Tier 1. This represents approximately 21% of the building space on the FESL at the time of the assessment. Tier 1 properties are all in proximity to the P-1 Plume (refer to Figure 2). Tier 1 buildings were determined to be of highest concern for SVI due to the FESL.

Tier 2 Properties: Twelve (12) buildings were considered Tier 2 which represents approximately 27% of the building space on the FESL at the time of the assessment. Tier 2 buildings were determined to be of moderate to low concern for SVI due to the FESL.

Tier 3 Properties: Nineteen (19) buildings were considered Tier 3 which represents 49% of the building space on the FESL at the time of the assessment. Tier 3 buildings were determined to be of low to no concern for SVI due to the FESL.

In addition to the above rankings, there were ten (10) vacant or undeveloped properties, eight (8) buildings not designed for occupancy (e.g., sheds, warehouse space, RG&E substation). Also, two (2) buildings and an addition on a Tier 2 Building had active mitigation systems already in place.

Soil Vapor & Intrusion Investigation Report (SVI Investigation Report) (Draft):

Following the SVI Assessment, a SVI Work Plan was developed to investigate the seven (7) Site Buildings ranked to be at the highest risk for FESL-related SVI (i.e., Tier 1) including 1640 Emerson Street, 1645-1685 Emerson Street, 1769 Emerson Street (Resource Recovery Facility building), 1770 Emerson Street, 500 Lee Road, 575 Colfax Street, and 1740 Emerson Street. It should be noted the transfer station at 1769 Emerson Street was ranked Tier 1 property but it does not include office areas except a small office with a unit heater. The transfer station is open to the outside air during operations and; as such, was not recommended for SVI investigation. SVI testing was completed at the seven (7) Tier 1 buildings between March 2016 and February 2017 and consisted of collocated sub-slab and indoor air samples, biased towards office areas, with the exception of 500 Lee Road at which exterior soil gas sampling was conducted due to building use and building construction. SVI testing was

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completed in accordance with the SVI Work Plan and *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York* dated October 2006 and subsequent updates dated September 2013 and August 2015 (NYSDOH Guidance). It should be noted that the NYSDOH Guidance Decision Matrices were updated in May 2017; however, the updated values did not change any of the final decisions arrived at using the previous matrices for samples collected during this assessment. The results for each building tested for SVI are summarized below:

- **1640 Emerson Street**– This property was recommended for SVI (sub-slab/indoor air) testing based on the 2011 SVI Assessment Report. Results of the SVI testing indicated no further action was warranted.
- **1645-1685 Emerson Street**– This property was recommended for SVI (sub-slab/indoor air) testing based on the 2011 SVI Assessment Report. Results of the SVI testing indicated no further action was warranted. Several rounds of sub-slab pressure readings were recorded to monitor the efficacy of the existing passive venting system installed. The testing demonstrated on several occasions that the building is positively pressurized and no further action was warranted.
- **1769 Emerson Street**– The building nearest the P-1 plume (northernmost) at this property was recommended for SVI (sub-slab/indoor air) testing based on the 2011 SVI Assessment Report. The results of the SVI testing indicated no further action was warranted.
- **1770 Emerson Street**– The automotive repair building at this property was recommended for SVI (sub-slab/indoor air) testing based on the 2011 SVI Assessment Report. The results of the SVI testing when compared to the NYSDOH Decision Matrices at the time of sampling (October 2006 with updates in 2013 and 2015) indicated the owner should take reasonable and practical actions to identify source(s) and reduce exposures. Subsequently, VOC containing containers were removed from the areas requiring action, and the indoor air was resampled. The results indicated no further action was warranted.
- **500 Lee Road**– The Powerhouse building (southernmost building) at this property was recommended for soil gas sampling based on the 2011 SVI Assessment Report due the floor slab’s significant depth below grade, the lack of regular occupancy of the building’s basement, and the use of the building. A sample from the basement sump was also collected. The results of soil gas vapor and sump sampling indicated no further action was warranted.
- **575 Colfax Street**– The building at this property was recommended for SVI (sub-slab/indoor air) testing and mitigation based on the 2011 SVI Assessment Report and due to elevated methane readings during the Site reconnaissance. Due to the use of a large portion of the building as a bus maintenance facility, SVI testing was completed in office spaces. The results of the SVI testing confirmed that mitigation was warranted. It should be noted SVI was likely attributed to leaks in drains throughout the bus repair portion of the building. The preexisting passive venting system was activated and follow-up indoor air sampling was completed in 2018 which proved the system is effective in reducing CVOCs in indoor air.
- **1740 Emerson Street**– The building at this property was recommended for SVI (sub-slab/indoor air) testing and mitigation based on the 2011 SVI Assessment Report. The results of the SVI testing confirmed mitigation was warranted. A retro-fitted SSDS was



installed and follow-up indoor air sampling was completed in 2018 which proved the system is effective in reducing CVOCs in indoor air.

Based on the assessments conducted, mitigation was warranted at two (2) of the seven (7) buildings tested; 575 Colfax Street and 1740 Emerson Street. It should be noted that based on a floor drain evaluation conducted in the bus repair portion of the 575 Colfax Street building which identified the ability for chemicals associated with bus repair to be released to the sub-slab, the presence of SVI at 575 Colfax Street does not appear to be caused by the FESL but rather on-site operations which have included bus repair since the early 1980s. Details of the mitigation systems installed are included in a Construction Completion Report (CCR) for each respective property (draft CCRs dated September 2018). No further action associated with FESL-related SVI is warranted at this time.

3.2 Remedial Investigations

Several investigations have been conducted since the 1980s at the FESL including those described in the following pertinent reports:

- Remedial Investigation Report- P-1 Plume Former Emerson Street Landfill by LaBella and GEI Consultants dated June 2018 (*note this report has not yet been approved by NYSDEC*).
- Former Emerson Street Landfill Remedial Investigation Report for City of Rochester Parcels 4, 10, and 11, by LaBella and Geomatrix Consultants dated November 2001
- Former Emerson Street Landfill Modified Remedial Investigation Report, by Haley & Aldrich of NY, dated January 1994
- Phase II Investigation, by RECRA Environmental Inc. dated February 1990

The P-1 Plume is the only plume known to be associated with the FESL. The inferred CVOC plumes and monitoring well locations are included on Figure 3. The 2011 SVI Assessment Report should be referenced for details regarding the 2010-2011 groundwater sampling. A summary of the P-1 plume is included below:

1700 Emerson Street (P-1 Plume)

The P-1 Plume is located at 1700 Emerson Street (formerly 1655 Lexington Avenue) and travels south-southeast towards the storm sewer installed in blasted bedrock beneath McCrackanville Street. Based on previous knowledge of the FESL and known concentrations of CVOCs in the vicinity of the P-1 plume, it has been determined that the P-1 plume is the only plume that may have been caused by a FESL-related release of contaminants. Prior to closure of the landfill in 1971, the incinerators were not operating properly. At this time, filling was taking place only in the northwest portion (Quadrant A; refer to Section 2 and Figure 3) of the FESL, specifically, at 1700 Emerson Street. Filling in the locations of 535 Colfax Street and 1425 Emerson Street had ended several years prior to 1971. This conclusion is confirmed by the 1971 aerial photograph which shows filling-related disturbances in the northwest portion of the landfill only.



The two (2) smaller CVOC plumes located near 535 Colfax Street and 1425 Emerson Street are believed to be attributed to current and/or previous uses of the properties and current and/or previous practices by building occupants after the redevelopment of the FESL. Refer to Figure 3 for locations of all three (3) plumes.

3.2.1 Summary of P-1 Plume Remedial Investigation 2012-2017

The recent RI consisted of installation of six (6) overburden, sixteen (16) shallow bedrock and two (2) deep bedrock groundwater monitoring wells, advancement of thirty-three (33) overburden soil borings, twenty-eight (28) test pits, twenty-one (21) membrane interface probe (MIP) borings, four (4) pump tests to evaluate hydraulic conductivity, downhole geophysics, and associated sampling of soil/ fill, overburden and bedrock groundwater, and bedrock.

The nature and extent of the P-1 Plume was defined during the RI and previous investigations conducted (refer to Figure 5). CVOCs in bedrock groundwater have most recently been detected up to 14,000 ppb in LAB-SBW-09 and are migrating downgradient to the southeast approximately 450 feet from the inferred source area. Biodegradation is occurring and parent compounds TCE and PCE are not migrating off-Site. Breakdown compounds cis-1,2-dichloroethene, vinyl chloride and chloroethane are present in downgradient monitoring well GMX-MW-3 at concentrations that exceed SCGs and total approximately 1.2 ppm. Other perimeter wells including GMX-MW-1 (southwest), GMX-MW-4 (northeast), LAB-SBW-01 (north), GMX-MW-6S and GMX-MW-6D (south) do not contain CVOCs at concentrations exceeding SCGs.

The estimated total mass of CVOCs in soil is 232 lbs, in groundwater is 13 lbs, and sorbed to bedrock is 1,724 lbs. Calculated porewater concentrations exceed the solubility limits for parent compounds PCE and TCE in the source area, which indicates DNAPL source material is suspected, even in the absence of visual confirmation. The significance of these findings relates to contaminant diffusion into the bedrock matrix and likely presence of DNAPL in tight, closed-ended fractures. Under these situations, back diffusion from the bedrock matrix to groundwater will pose a long-term source of groundwater contamination.

Off-Site human health exposures have been assessed via a SVI investigation and have been addressed via mitigation of impacted buildings (refer to Section 3.1). Institutional controls including the City's permit system which flags all properties on the FESL to prevent permit issuance without consideration for FESL-related concerns including fill material and potential for SVI, have also been effective in preventing exposure.

Refer to Section 5 for a more detailed description of the conceptual site model.

4. Geology & Hydrogeology

Geology and hydrogeology are based on the findings of previous investigations since the 1980s.

4.1 Geology

The overburden materials in the P-1 investigation area at the FESL consist predominantly of waste/fill materials placed during landfill operation. Based on historical and recent investigations the

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waste/soil fill thickness across the P-1 Plume investigation area ranges between 23 and 27 feet in depth. The waste mass is generally unsaturated, however, few thin perched zones of saturated conditions are documented and the lowermost 1-2-ft of overburden may seasonally exhibit groundwater. A thin, discontinuous layer of native sand/silt which is typically overlain by a layer of peat ranges from a few inches to a maximum observed thickness of 4.3-ft.

Depth to bedrock ranges between approximately 23 and 27-ft below ground surface (bgs) at elevations ranging between approximately 519-522 feet above mean sea level (fmsl). The uppermost bedrock encountered at the FESL Site is the Penfield Member of the Lockport Group and consists of a fine-grained sequence of grey to dark grey argillaceous limestone and dolostone. Bedrock at the Site is subdivided into five zones characterized by fracture frequency and the presence of laterally extensive horizontally transmissive bedding plane fractures. The bedrock zones are characterized as follows:

A-Zone (generally >518 fmsl)- The A-Zone is comprised of the upper 3-ft of highly fractured and weathered top of bedrock and includes the lowermost portion of saturated overburden, where present. The average RQDs in this zone were 2%. Hydraulic communication was not observed with other wells during drilling in this zone.

Upper B-Zone (~512-518 fmsl)- The Upper B Zone spans the bedrock thickness between the A-Zone and B-Zone (3-8-ft btr) and does not exhibit laterally extensive fracturing, however fracture frequency from bedrock core (RQD) and televiewer information suggest a higher frequency of fracturing compared to deeper portions of the bedrock (D-Zone). The average RQDs in this zone were 13%. During drilling LAB-DBW-01 in this zone, hydraulic communication was observed at LAB-SBW-03. During drilling LAB-SBW-04 in this zone, hydraulic communication was observed at LAB-SBW-03 and LAB-SBW-05. During drilling LAB-SBW-07 in this zone, hydraulic communication was observed at LAB-SBW-06 and GMX-MW-4.

B-Zone (~508-512 fmsl)- The B-Zone groundwater flow system is present from an elevation of approximately 508 to 512 fmsl (8-16-ft btr) and is characterized by the first laterally extensive high transmissivity fracture zone identified in bedrock core, downhole televiewer observations, and direct evidence of hydraulic communication between wells observed during bedrock coring using air rotary methods. The average RQDs in this zone were 24%. During drilling LAB-SBW-08, LAB-DBW-01 and LAB-DBW-02 in this zone, hydraulic communication was observed at LAB-SBW-03. During drilling LAB-SBW-04 in this zone, hydraulic communication was observed at LAB-SBW-03 and LAB-SBW-05.

C-Zone (~494-508 fmsl)- The C-Zone flow system is characterized by the second laterally-extensive fracture system identified through bedrock core, televiewer and hydraulic communication data and is present from approximately 494 to 508 fmsl (16-25-ft btr). The average RQDs in this zone were 60%. During drilling LAB-DBW-02 in this zone, hydraulic communication was observed at GMX-MW-4, LAB-SBW-06, and LAB-SBW-07. During drilling LAB-SBW-05 and LAB-SBW-06 in this zone, hydraulic communication was observed at GMX-MW-4.

D-Zone (<494 fmsl)- The D-Zone flow system is the deepest flow regime investigated and is present within the Rochester Shale at depths deeper than approximately 494 fmsl (25-ft btr)

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and below. The average RQDs in this zone were 81%. During drilling LAB-DBW-02 in this zone, hydraulic communication was observed at LAB-SBW-01, LAB-SBW-06, LAB-SBW-08 and GMX-MW-4.

4.2 Hydrogeology

There are two (2) separate groundwater zones, shallow bedrock (bedrock zones A-C) and deep bedrock (bedrock zone D). Wells in the deep bedrock zone include LAB-DBW-01, LAB-DBW-02 and GMX-MW6D. All remaining bedrock wells are in the shallow bedrock zone. The overburden is generally unsaturated.

Deep Bedrock Groundwater:

The groundwater elevation in GMX-MW-6D was observed to be approximately 7-feet higher than in LAB-DBW-01 and LAB-DBW-02 during the RI. The groundwater elevation in GMX-MW-6D was approximately 8-feet higher than the groundwater elevation in GMX-MW-6S during the RI. Due to only these three (3) monitoring wells being set within the D Zone and the fact that these wells are in relative linear alignment (i.e., triangulation is not feasible), deep bedrock groundwater flow direction across the Site was not determined. LAB-DBW-01 and LAB-DBW-02 are located near the source area and GMX-MW-6D is located near the southern property boundary.

Shallow Bedrock Groundwater:

A weak, generally north to south horizontal groundwater flow gradient (0.008) is present on-Site within shallow bedrock groundwater. Shallow bedrock groundwater flow in the area of the P-1 plume may be influenced by the storm sewer that parallels McCrackanville and Emerson Streets. The sewer is incised into the bedrock and is presumed to be surrounded by permeable backfill. Based on the invert elevations of the storm sewer (approximately 517-518 fmsl), groundwater typically discharges to the backfill creating a localized groundwater low parallel with McCrackanville and Emerson Streets. During the May 2017 water level monitoring event, a groundwater high was observed to exist paralleling the sewer. The May 2017 water level monitoring event occurred after an extended period of wet weather and groundwater transmitted from the north to the south is suspected of causing the observed flow pattern away from the sewer (i.e., slightly towards the west).

An average hydraulic conductivity value of approximately 400 ft/day (1.4×10^{-1} cm/S) was calculated from the pumping tests completed during the recent RI. An average linear flow velocity (groundwater seepage velocity) was calculated to be 3.2 ft/day (1.1×10^{-3} cm/S) using data from bedrock monitoring wells which span the B and C bedrock flow zones.

A weakly downward hydraulic gradient is present at paired well locations near the P-1 source area (LAB-DBW-02 519.28 fmsl and LAB-SBW-05 519.39 fmsl). Farther down gradient at the GMX-MW-6S/6D well pair, the vertical hydraulic gradient is measured to be strongly upward (GMX-MW-6D 526.95 fmsl and GMX-MW-6S 519.56 fmsl). The low hydraulic conductivity of the shallow and deeper bedrock at this location suggests this area has low hydraulic communication with other areas of the P-1 plume.



5. Summary of RI and Exposure Assessment

5.1 Nature and Extent of Contamination

The RI has defined the source area of CVOCs as shown on Figure 4. The plume of CVOCs with concentrations above NYSDEC Groundwater Quality Standards is shown on Figure 5. The greatest concentrations of CVOCs in groundwater to date have been detected in the top 3-ft of bedrock groundwater. Specifically, monitoring wells LAB-DBW-02, LAB-SBW-05, LAB-SBW-09, and P-1 all contained greater than 15 ppm total CVOCs in at least one sampling event. The top 3-ft of bedrock also contains the highest concentrations of CVOCs in the rock matrix within the source area. Concentrations of CVOCs in bedrock and bedrock groundwater generally decrease with depth within the source area.

Groundwater: The source area of CVOCs in groundwater (encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10) is approximately 16,000 sq. ft. Based on the reduction of CVOCs from 2000 to 2017 including an 83% decrease in total CVOCs in the P-1 well from 54.4 ppm to 8.9 ppm, and a 77% decrease in total CVOCs in GMX-MW-3 (downgradient) from 5.3 ppm to 1.2 ppm, natural attenuation of the plume is occurring.

Soil Vapor: A FESL-wide SVI assessment was conducted from 2009-2017 documented in the 2011 SVI Assessment Report dated June 2011 and Draft SVI Investigation Report dated March 2018 and identified only one (1) building with impacted soil vapor from a FESL-related source. The south adjacent building to the Site (1740 Emerson Street) has been mitigated to prevent SVI related to the FESL. Institutional controls also prevent newly constructed buildings designed for regular occupancy to be occupied without being assessed or mitigated for SVI.

Soil/ Fill: Unincinerated fill material is generally present in the source area beginning at depths ranging from 2-8-ft bgs, with ash present at greater depths. Total CVOCs have been detected in soil/fill at concentrations up to 766 ppm in LAB-OBW-01 at 23-24-ft bgs and total BTEX has been detected in soil/ fill at concentrations up to 3,040 ppm in 2016-SB-20 at 18-19-ft bgs. The greatest concentrations of CVOCs are present directly above bedrock, generally at depths greater than 20-ft bgs in an approximate 8,000 sq. ft. area (approximately 1,800 cubic yards).

Bedrock: The uppermost 3-ft of bedrock contains the highest concentrations of CVOCs sorbed to the rock matrix in the source area. Concentrations of CVOCs generally decrease with depth in the source area. Concentrations of CVOCs in bedrock wells downgradient of the source area (i.e., LAB-SBW-15 and LAB-SBW-16) were non-detect in the A Zones but were detected in the Upper B/ B Zones. The concentrations of CVOCs in the A Zone bedrock matrix are suggestive of a DNAPL source in LAB-SBW-02, LAB-SBW-09, LAB-SBW-10, and LAB-DBW-01. Impacts in bedrock are assumed to be approximately 60,000 sq. ft. and vary in elevations across that area from the A Zone to the B Zone. An estimated 18,000 cubic yards of bedrock impacts are present in the source area.

A summary of the estimated distribution of contaminant mass is included in the following table and further detailed below.



Distribution of Contaminant Mass in P-1 Plume Study Area

Zone	Soil		Bedrock		Groundwater		Total Mass by Zone	
	Mass (lbs)	% of total Mass	Mass (lbs)	% of total Mass	Mass (lbs)	% of total Mass	Mass (lbs)	% of total Mass
Overburden/ Fill	232	11.78%	--	--	--	--	232	11.78%
Bedrock A Zone	--	--	1,233	62.62%	5	0.25%	1,238	62.87%
Bedrock B1 Zone	--	--	491	24.94%	3	0.15%	498	25.29%
Bedrock B Zone	--	--			4	0.20%		
Bedrock C Zone	--	--	0.10	--	1	0.05%	1	0.05%
Bedrock D Zone	--	--	<0.01	--	<0.01	0.01%	<0.01	0.01
Total Mass (lbs)	232	11.78%	1,724	87.56%	13	0.66%	1,969	100%

Notes:

Mass calculations estimated based on concentration contours developed using modeling software.

Assumptions:

Mass of bedrock = 165 lb/ ft³

Mass of soil = 100 lb/ ft³

Porosity of bedrock 10%

The estimated total mass of CVOCs in soil/ fill is 232 lbs (or 11.78% of total mass), groundwater is 13 lbs (or 0.66% of total mass), and bedrock is 1,724 lbs (or 87.56% of total mass). A majority of contaminant mass is in bedrock as opposed to the overburden native soil/ fill material. Calculated porewater concentrations exceed the solubility limits for parent compounds PCE and TCE in bedrock in several locations (LAB-DBW-01, LAB-SBW-02, LAB-SBW-05, LAB-SBW-09, and LAB-SBW-10), which indicates DNAPL source material is suspected, even in the absence of visual confirmation. The significance of these findings relates to contaminant diffusion into the bedrock matrix and the likely presence of DNAPL in tight, closed-ended fractures. Under these situations, back diffusion from the bedrock matrix to groundwater will pose a long-term source of groundwater contamination.

5.2 Overall Conceptual Site Model

The following presents the overall conceptual model for the Site. This conceptual Site model is based on the RI recently completed and previous investigations.

During the last years of filling at the FESL, it appears some non-municipal waste was placed in the landfill in the vicinity of P-1 and more specifically in the area encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10. This is supported by a review of aerial photographs, test pits, high concentrations of impacts in the



overburden/ fill on top of bedrock, the presence of the greatest concentrations of CVOCs in A Zone groundwater, and bedrock matrix samples.

NAPL and/or high concentrations of VOC impacted groundwater has since migrated laterally and vertically from this source area. Based on rock matrix analysis, impacts migrated to the southeast to LAB-SBW-05 in the A Zone and Upper B Zone. Impacts (not NAPL) further migrated laterally to the west and southwest (LAB-SBW-13 and LAB-SBW-14) and to the south (LAB-SBW-15 and LAB-SBW-16) into the B Zone. This is evidenced by greater concentrations of CVOCs in the B Zone than in the A Zone in these locations. Impacts have not migrated at significant concentrations laterally to the southeast or vertically to the C or D Zones.

As the impacts have migrated downward vertically and laterally, natural degradation has been occurring. This is evidenced by greater concentrations of daughter compounds than parent compounds in bedrock groundwater. In addition the source edge bedrock samples have a higher proportion of daughter compounds than the samples in the source area. Furthermore, the overall P-1 Plume area has decreased since 2000 and concentrations of total CVOCs have declined. Refer to Figure 3 for extent of the P-1 Plume. The source area of CVOCs in groundwater (encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10) is approximately 16,000 sq. ft. as shown on Figure 5.

In accordance with the EPA Technical Protocol Table 2.4 evaluation that was performed as part of the RI, there is *“Adequate Evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics”*. Additionally, compound-specific isotope analysis (CSIA) results indicate natural transformation of parent material (PCE and TCE) to daughter products is occurring. The mechanism for transformation was evaluated using Bio-Trap samplers. Analytical results indicate the presence of DHC (Dehalococcoides) and DHBt (Dehalobacter) in population ranges capable of natural biodegradation of CVOCs in the P-1 study area; however, biodegradation appears to be incomplete prior to regulated contaminants leaving the property boundary. This is supported by the fact that chloroethane, cis-1,2-dichloroethene, and vinyl chloride are detected in the downgradient wells. Specifically, chloroethane (145 ppb), cis-1,2-dichloroethene (751 ppb), and vinyl chloride (305 ppb) are detected in GMX-MW-3 downgradient of the source area proximate to the eastern property boundary in May 2017, and parent compounds were not detected.

5.3 Exposure Assessment

On-Site and off-Site exposure assessments were completed in the RI. Based on the on-Site exposure assessment, only on-Site workers have the potential to come in contact with contaminated media. On-Site workers are required to be 40-hour OSHA HAZWOPER trained and work in accordance with a health and safety plan. The Site is currently vacant land. Any future on-Site development would be managed in accordance with the *Waste Fill Management during Site Development Guidance Document*. In addition, an Institutional Control is in place which prohibits permit issuance on the FESL in the City’s Building Information System without City Division of Environmental Quality review. The use of groundwater in the City is prohibited by City code. A completed on-Site exposure pathway does not exist for contaminated media as long as subsurface disturbances are properly managed.

Off-Site human health exposures have been assessed via an extensive SVI investigation and mitigation of impacted buildings. A complete off-Site exposure pathway does not currently exist as



long as institutional controls remain in place and the mitigation system installed at 1740 Emerson Street remains in operation. The *Waste Fill Management during Site Development Guidance Document* will be implemented during subsurface work on the FESL and the *FESL Sub-Slab Ventilation Guidance Document* will be implemented during future construction of buildings on the FESL. The City controls the Site and FESL by flagging all FESL properties in the City Building Information System. The use of groundwater in the City is prohibited by City code.

6. Standards, Criteria and Guidelines

This section identifies the Standards, Criteria and Guidelines (SCGs) for the Site.

Soil SCGs: The following SCGs for soil are applicable for the Site:

- New York Codes, Rules, and Regulations (NYCRR) Subpart 375-6 Remedial Program Soil Cleanup Objectives (RPSCOs) for the Protection of Groundwater;
- NYCRR Subpart 375-6 RPSCOs for Industrial Use.

Groundwater SCGs: The following SCGs for groundwater are applicable for the Site:

- NYSDEC Part 703 Groundwater Standards;
- Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values.

Soil Gas SCGs: Currently, no state regulatory (NYSDEC or NYSDOH) guidance values exist for soil gas.

Bedrock: Currently, no state regulatory (NYSDEC or NYSDOH) guidance values exist for bedrock.

7. Remedial Action Objectives

The primary Remedial Action Objectives (RAOs) are as follows:

Groundwater RAOs:

- a. Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards;
- b. Prevent contact with, or inhalation of volatiles, from contaminated groundwater; and
- c. Prevent off-Site migration of contaminants in groundwater at levels exceeding drinking water standards.

Soil RAOs:

- a. Prevent ingestion/ direct contact with contaminated soil;
- b. Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil; and
- c. Prevent migration of contaminants that would result in groundwater or surface water contamination.



Soil Vapor RAOs

- a. Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

8. Preliminary Screening of Alternatives

The following alternatives were initially screened for implementation at the Site. Several options were ruled out and others were selected for further evaluation.

Initial Screening of Remedial Alternatives

General Remedial Scenario	Remedial Technology	Selected for Further Evaluation	Explanation
No action	None	No	No action will not meet any of the criteria.
In-Situ Biological Treatment	Enhanced Bioremediation	No	Microorganisms are present and biological treatment is occurring.
	Bioventing	No	Microorganisms are present and biological treatment is occurring.
	Monitored Natural Attenuation	Yes	Natural attenuation of CVOCs in groundwater is occurring.
In-Situ Chemical/ Physical Treatment	Chemical Oxidation	No	Due to high chemical oxidant demand of bedrock matrix, chemical oxidation is not feasible.
	Chemical Reduction	Yes	Potential source treatment and permeable reactive barrier
	Thermal Treatment	Yes	Potential source treatment
	Dual Phase Extraction	Yes	Treat contaminated groundwater and soil vapor.
Ex-Situ Chemical/ Physical Treatment	Excavation	Yes	Source removal option.
	Pump and Treat	Yes	Treat contaminated groundwater on-Site.
	Bioreactor	No	Large volume of contaminated media.
Containment	Grout Wall	No	Groundwater gradient is not steep. Large aerial extent of plume.
	Cap/ Cover	Yes	Limit exposure to subsurface contaminants.



9. Description of Selected Alternatives

Alternatives retained for a detailed evaluation are presented in this section. As shown by the Conceptual Site Model, a point source of CVOCs has not been identified at the Site; however, the inferred source area is defined as the area encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10 which includes source material in the overburden soil/ fill and the A Zone (approximately 16,000 sq. ft.). Source material is present in lower bedrock zones (Upper B and B Zones) outside of this area further south due to migration of CVOCs in bedrock vertically and horizontally with groundwater flow (north to south). Source material in overburden/ fill, the A Zone, Upper B Zone, and B Zone accounts for 88% of the total mass of CVOCs at the Site. Locations with source material in the overburden and bedrock are outlined on Figure 4. The source area does not encompass all impacts exceeding Unrestricted Use SCOs. A cover system, ECs and ICs are part of each alternative below and further described in Section 13.

- A) Excavation:** This technology would involve excavation of the overburden and top several feet of bedrock within the source area. An approximate 100,000 square foot (sq ft) area would be excavated to remove impacts above Unrestricted Use SCOs. It is assumed that the top 2-feet of material would be reused as backfill. Material from 2-ft bgs to bedrock (beginning at approximately 23-25-ft bgs) and up to 5-feet of bedrock would be excavated. An estimated 100,000 cubic yards (CY) (i.e., 185,000 tons) of material would be disposed of off-Site based on TCLP results. It is assumed soil/ fill 2-ft above top of bedrock, and the top 3-ft of bedrock will be characterized as hazardous (35,000 tons). It is assumed the remaining material will be characterized as non-hazardous (150,000 tons). Excavations would be dewatered and water would be stored temporarily in frac tanks prior to sampling and treatment via carbon, and discharged to the sanitary sewer via a permit through Monroe County Pure Waters. Shoring would be required to support the excavation walls and excavations would be benched to reach the desired depths. Sidewall confirmatory samples would be collected for analysis of VOCs, SVOCs, metals, cyanide, pesticides, and PCBs. Due to the large scale of the excavation, it is assumed a reduced frequency of less than 1 sample per 30-ft of excavation perimeter would be implemented. The excavation would extend to bedrock; as such, bottom confirmatory soil samples will not be collected. Bedrock samples would be collected for documentation purposes. An amendment would be placed in the backfill to promote further biodegradation. Imported backfill would consist of crushed recycled concrete/ crushed stone/ and or other material that meets Unrestricted Use SCOs. This alternative would also include placing an amendment in the backfill.

This option will require a cover system be constructed to ensure the top 1-ft of the Site meets Industrial Use SCOs. Refer to Section 13.2 for cover details.

This alternative assumes quarterly post-remedial groundwater monitoring for 2 years, semi-annual monitoring for an additional 3 years, and annual monitoring for an additional 25 years (30 years total). Up to 12 wells would be sampled for TCL VOCs via passive diffusion bags (PDBs). It should be noted that although this alternative would meet Unrestricted Use SCOs within the excavation area, the areas outside the excavation would still contain landfill



materials (ash, cinders and some unincinerated putrescible waste); as such, Site controls would still be necessary.

The cost to implement this alternative is approximately \$24.5 million with 30 year operation and maintenance costs including periodic review reports, annual inspections, and groundwater monitoring, totaling approximately \$208,000. Refer to Figure 7 for a representation of this alternative and Table A for a cost analysis.

B) Electrical Resistance Heating (ERH)- This alternative would consist of installing a series of electrodes through the overburden/ fill and into bedrock and heating the wells to the boiling point of the contaminants to vaporize CVOCs. Vapor recovery wells would be installed to collect vapors that would be treated in an on-Site treatment system using activated carbon or other treatment methods. An approximate 23,000 sq ft area would be treated which includes the inferred source area and additional wells surrounding the source area to minimize back diffusion following treatment. Electrodes would extend through the overburden to approximately 15-ft btr. Temperature would be continuously monitored and mass reduction would be determined throughout the treatment period to determine when treatment goals have been met. Necessary utilities including sewer and electric would be brought to the Site.

This option will require a cover system be constructed to ensure the top 1-ft of the Site meets Industrial Use SCOs. Refer to Section 13.2 for cover details.

This alternative assumes quarterly post-remedial groundwater monitoring for 2 years, semi-annual monitoring for an additional 3 years, and annual monitoring for an additional 25 years (30 years total). Up to 12 wells would be sampled for TCL VOCs via PDBs.

The cost to implement this alternative is approximately \$5.6 million with 30 year operation and maintenance costs including periodic review reports, annual inspections, and groundwater monitoring, totaling approximately \$208,000. Refer to Figure 8 for a representation of this alternative and Table B for a cost analysis.

C) Groundwater Extraction and Ex-Situ Treatment System- This technology would consist of a pump and treat or dual phase extraction system that would continuously pump groundwater to an on-Site treatment system and treat the contaminated groundwater via activated carbon, air strippers, etc. This approach would rely on long-term hydraulic containment of the plume. Back diffusion would continue to occur and pose a continuing source of CVOCs to groundwater. A treatment system building would be constructed and the necessary utilities would be installed at the Site (e.g., electric, sewer, communication, etc.). It is assumed that up to 6 pumping wells would be installed to depths up to 10-ft btr. This analysis includes operation and maintenance of the system for 30 years; however, it is assumed the system would run indefinitely.

This option will require a cover system be constructed to ensure the top 1-ft of the Site meets Industrial Use SCOs. Refer to Section 13.2 for cover details.



This alternative assumes quarterly post-remedial groundwater monitoring for 5 years and semi-annual sampling for an additional 25 years (30 years total). Up to 12 wells would be sampled for TCL VOCs via PDBs.

The cost to implement this alternative is approximately \$3 million with 30 year operation and maintenance costs including monthly discharge sampling, periodic system checks and maintenance, equipment repairs as needed, periodic review reports, annual inspections, and groundwater monitoring, totaling approximately \$1.5 million. Refer to Figure 9 for a representation of this alternative and Table C for a cost analysis.

D) In-Situ Source Treatment with Permeable Reactive Barrier- This technology would involve injection of a reducing agent (e.g., zero valent iron and carbon source) into the overburden and top of bedrock within the inferred source area and downgradient of the source area to reduce concentrations of CVOCs in both the source area and downgradient to prevent off-Site migration. Hydraulic injections would be completed in the source area via injection wells installed to depths up to 8-ft btr (A and Upper B Zone). Injection wells may be installed at varying depths to target specific depth intervals (i.e., deeper injection intervals extending to the Upper B Zone on the southernmost injection points). It is assumed the treatment chemical would be injected starting at 5-feet above bedrock and extending to depths up to 8-ft btr in the area with source material impacts in bedrock greater than 40 ppm total CVOCs (approximately 26,000 square feet). A total of 350,000 lbs ZVI (or similar) would be injected via hydraulic injection methods to 118 injection wells (approximate 15-ft spacing) in the source area. The mass of ZVI estimated assumes a 1% dosing of the soil/ bedrock mass. Microbes (DHC inoculum, or similar) would also be injected in the source area to promote biodegradation of source material.

In addition, a PRB would be installed perpendicular to groundwater flow downgradient (i.e., south) of the source area via a blast-enhanced bedrock trench or pneumatic injections. Two (2) injection methods, blast-enhanced bedrock trench and pneumatic injections, are being considered. Each method is summarized below:

- For the blast-enhanced bedrock trench method, approximately 75 blast points would be spaced approximately 5-ft apart to form a PRB 375-ft in length. Injection wells would be installed every 50-ft (8 wells total) within the trench after blasting. Blast points and injection wells would be installed to depths up to 16-ft btr (encompassing the A, Upper B and B Zones). A total of 350,000 lbs of ZVI (or similar) would be injected into the trench via hydraulic injection methods which assumes 10% dosing of the bedrock mass. Work plans would include a blast plan with seismic monitoring to monitor any movement in the surrounding area as a result of the blasting.
- For the pneumatic injection method, two (2) off-set rows of pneumatic injection points (one row of 13 and one row of 5) would be installed at 30-ft horizontal spacing (15-ft radius of influence) to depths up to 16-ft btr (encompassing the A, Upper B and B Zones). A total of 285,000 lbs ZVI (or similar) would be injected via pneumatic techniques, which assumes a 1% dosing of the bedrock mass.

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This option will require a cover system be constructed to ensure the top 1-ft of the Site meets Industrial Use SCOs. Refer to Section 13.2 for cover details.

Up to four (4) bedrock monitoring wells would be installed downgradient of the PRB for post-remedial monitoring. The PRB would be replenished with ZVI (or similar) every 10 years via hydraulic injections. It should be noted that reinjection into the PRB area may present some complications at that time and additional injection wells adjacent to the previously installed PRB may be necessary. Costs for installation of an additional three (3) injection wells every 10 years are included. This alternative assumes quarterly post-remedial groundwater monitoring for 1 year, semi-annual monitoring for 2 additional years, and annual monitoring for an additional 27 years (30 years total). Up to 12 wells would be sampled for TCL VOCs and MNA parameters via low-flow techniques.

The cost to implement this alternative is approximately \$4.9 million for the blasted bedrock trench alternative and \$5.1 million for the pneumatic injection alternative, with 30 year operation and maintenance costs including periodic review reports, annual inspections, and groundwater monitoring, totaling approximately \$1.8 million for the blasted bedrock trench alternative and \$2.0 million for the pneumatic injection alternative. Operation and maintenance includes ZVI injections during years 10, 20 and 30. Refer to Figures 10A and 10B for representations of this alternative and Tables D1 and D2 for a cost analysis.

E) Permeable Reactive Barrier (PRB) with Monitored Natural Attenuation (MNA)- This technology would involve injection of a reducing agent (e.g., zero valent iron, etc.) on the downgradient edge of the plume to form a PRB that will reduce CVOCs in groundwater into less harmful breakdown products and prevent off-Site migration of CVOCs. As determined during the RI, in accordance with the EPA Technical Protocol Table 2.4 evaluation performed during the recent RI, there is “*Adequate Evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics*”. Additionally, CSIA results indicate natural transformation of parent material (PCE and TCE) to daughter products is occurring. Biodegradation appears to be incomplete prior to regulated contaminants leaving the property boundary. This is supported by the fact that chloroethane, cis-1,2-dichloroethene, and vinyl chloride are detected in the downgradient wells (GMX-MW-3, LAB-SBW-15 and LAB-SBW-16). The PRB would help to further reduce CVOCs migrating towards the property boundary. The PRB would be installed perpendicular to groundwater flow downgradient (i.e., south) of the source area via a blast-enhanced bedrock trench or pneumatic injections.

Two (2) injection methods, blast-enhanced bedrock trench and pneumatic injections, are being considered. Each method is summarized below:

- For the blast-enhanced bedrock trench method, approximately 75 blast points would be spaced approximately 5-ft apart to form a PRB 375-ft in length. Injection wells would be installed every 50-ft (8 wells total) within the trench after blasting. Blast points and injection wells would be installed to depths up to 16-ft btr (encompassing the A, Upper B and B Zones). A total of 350,000 lbs of ZVI (or similar) would be

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injected into the trench via hydraulic injection methods which assumes 10% dosing of the bedrock mass. Work plans would include a blast plan with seismic monitoring to monitor any movement in the surrounding area as a result of the blasting.

- For the pneumatic injection method, two (2) off-set rows of pneumatic injection points (one row of 13 and one row of 5) would be installed at 30-ft horizontal spacing (15ft radius of influence) to depths up to 16-ft btr (encompassing the A, Upper B and B Zones). A total of 285,000 lbs ZVI (or similar) would be injected via pneumatic techniques, which assumes a 1% dosing of the bedrock mass.

This option will require a cover system be constructed to ensure the top 1-ft of the Site meets Industrial Use SCOs. Refer to Section 13.2 for cover details.

Up to four (4) bedrock monitoring wells would be installed downgradient of the PRB for post-remedial monitoring. The PRB would be replenished with ZVI (or similar) every 10 years, or as deemed warranted based on long-term groundwater monitoring, via hydraulic injections within existing injection wells. It should be noted that reinjection into the PRB area may present some complications at that time and additional injection wells adjacent to the previously installed PRB may be necessary. Costs for installation of an additional three (3) injection wells every 10 years are included. This alternative assumes quarterly post-remedial groundwater monitoring for 1 years, semi-annual monitoring for 2 additional years, and annual monitoring for an additional 27 years (30 years total). Up to 12 wells would be sampled for TCL VOCs and MNA parameters via low-flow techniques.

The cost to implement this alternative is approximately \$1.6 million for the blasted bedrock trench alternative and \$2.1 million for the pneumatic injection alternative with 30 year operation and maintenance costs including periodic review reports, annual inspections, and groundwater monitoring, totaling approximately \$1.8 million for the blasted bedrock trench alternative and \$3.0 million for the pneumatic injection alternative. Operation and maintenance includes ZVI injections during years 10, 20 and 30. Refer to Figures 11A and 11B for representations of this alternative and Table E1 and E2 for a cost analysis.

F) Monitored Natural Attenuation (MNA)- This technology would consist of long-term groundwater sampling to monitor the presence of CVOCs and breakdown compounds on-Site and in particular down-gradient of the source to demonstrate that CVOCs are naturally degrading. Based on biological testing completed to date, the presence of substantially more breakdown compounds than parent compounds on the downgradient edge of the plume, the MNA evaluation conducted during the RI and presented in the RI Report, MNA is occurring.

This option will require a cover system be constructed to ensure the top 1-ft of the Site meets Industrial Use SCOs. Refer to Section 13.2 for cover details.

It is assumed up to four (4) additional bedrock wells would be installed downgradient of the source area. This alternative assumes quarterly post-remedial groundwater monitoring for 5 years, semi-annual monitoring for 5 additional years, and annual monitoring for an additional



20 years (30 years total). Up to 12 wells would be sampled for TCL VOCs and MNA parameters via low-flow techniques.

The cost to implement this alternative is approximately \$1.1 million with 30 year operation and maintenance costs including periodic review reports, annual inspections, and groundwater monitoring, totaling approximately \$463,000. Refer to Figure 12 for a representation of this alternative and Table F for a cost analysis.

Institutional controls and engineering controls will be required in conjunction with the alternatives listed above. These ICs and ECs for the recommended alternative are detailed in Section 13. The cover system included in alternatives A through F is considered an EC and will be applied regardless of the remedial alternative selected; as such, it is evaluated separately from the alternatives listed above.

10. Evaluation Criteria

Technologies were initially evaluated based on criteria in accordance with NYSDEC DER-10 (Section 4.0) and DER-31. Remedial alternatives were evaluated based on the following criteria:

- 1) Overall Protection of Public Health and the Environment: This criterion evaluates the ability of each remedial alternative to protect public health and the environment during or subsequent to implementation of the alternative.
- 2) Compliance with SCGs: This criterion evaluates whether each remedial alternative will ultimately result in compliance with the applicable, relevant or appropriate SCGs, to the extent practicable.
- 3) Long-Term Effectiveness and Permanence: This criterion evaluates if each remedial alternative is effective and permanent in the long-term after implementation (e.g., potential rebound of groundwater contamination). In the event that residual impacts will remain as part of the alternative, then the risks and adequacy/reliability of the controls are also evaluated.
- 4) Reduction of Toxicity, Mobility, or Volume with Treatment: This criterion evaluates the ability of each remedial alternative to reduce the toxicity, mobility and volume of site contamination. In addition, the reversibility of the contaminant destruction or treatment is evaluated.
- 5) Short-Term Impact and Effectiveness: This criterion evaluates the potential short-term adverse environmental impacts and human exposures during construction and/or implementation of an alternative or remedy.
- 6) Implementability: This criterion evaluates each remedial alternative based on its suitability, implementability at the specific site, and availability of services and materials that will be required.



- 7) Cost: This criterion evaluates the capital, operation, maintenance, and monitoring costs for each remedial alternative. The estimated costs are presented on a present worth basis.
- 8) Land Use: This criterion evaluates if the current, intended and reasonably anticipated future use of the Site and its surroundings, as it relates to an alternative or remedy, when unrestricted levels would not be achieved.
- 9) Community Acceptance: This criterion will be evaluated after the public review of the remedy selection process.
- 10) Green Remediation: This criterion considers all environmental effects of remedy implementation and incorporates alternatives that minimize the environmental footprint of cleanup actions.

11. Evaluation of Selected Alternatives

This section provides an evaluation of alternatives using the evaluation criteria listed in Section 10. Cost analyses are summarized below and further detailed on Table A through Table F, attached. A public comment period will be implemented for the selected remedy; as such, the community will provide input on the final remedy at a later date and community acceptance is not evaluated herein. ICs are currently in place for the Site and would remain in place for all alternatives evaluated. SVI has been addressed at the FESL and ICs and ECs relating to SVI will remain in place. In addition, an EC in the form of a cover system is included in each alternative due to the P-1 Plume and the landfilling materials that will remain under each alternative. ICs and ECs are further detailed in Section 13.

11.1 Excavation:

Overall Protection of Public Health and the Environment:

The excavation alternative may not be protective to human health and the environment because contaminated fill/ soil, groundwater, bedrock and soil vapor would be excavated and thus create a significant disturbance. In addition, to access the CVOCs, approximately 20-ft of landfill material would have to be excavated. The landfill materials may present unknown hazards for Site workers. Risks to workers and the public can be reduced by implementing dust and VOC monitoring and suppression techniques. Risks can be reduced for workers by implementing the appropriate level of personal protective equipment (PPE). Additional Site security would be required to prevent access to the Site to non-Site workers. This alternative contributes a significant volume (100,000 CY or 185,000 tons) of impacted material to landfills, resulting in 9,250 truck trips which is not fully protective to the environment.

Compliance with SCGs:

The excavation alternative would comply with SCGs in soil as it would cleanup soil/ fill to unrestricted use. CVOCs in deeper bedrock will remain and be a continued source of CVOCs in groundwater.

Long-Term Effectiveness and Permanence:

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The excavation alternative would not be effective in the long-term as deeper bedrock would remain a continued source of CVOCs in groundwater.

Short-Term Impact and Effectiveness:

In the short-term, the excavation alternative would impact the surrounding area and would result in nuisance conditions for the surrounding community due to potential odors and/or dust and increased truck traffic. Furthermore, unknowns in the landfill could complicate the excavation work and may lead to short term impacts.

Reduction of Toxicity, Mobility, or Volume with Treatment:

Toxicity, mobility, and volume of contaminants would be reduced because the source of contaminants would be removed and disposed of off-Site. Mobility of contaminated groundwater would reduce during excavation activities while dewatering is occurring and; removing the source would prevent contaminants from contributing to groundwater overtime.

Implementability:

The excavation alternative would be very difficult to implement due to the depth (up to 30 feet) and area (up to 100,000 sq ft) of the excavation. Shoring would be required to support the excavation walls. Advanced odor suppression techniques would be required and landfill gas would be monitored for worker safety. This alternative would be difficult to safely and effectively implement.

Cost:

The excavation alternative would be very costly to implement. The estimated cost to implement this alternative is \$24.5 million with a 30 year operation and maintenance cost of \$208,000.

Land Use:

The excavation alternative would be consistent with land use which is industrial.

Green Remediation:

The excavation alternative would not be green due to the volume of impacted material that would contribute to landfills (100,000 CY), due to increased truck traffic (over 9,250 truck trips), and due to the large amount of fossil fuel needed to operate the required heavy equipment.

11.2 ERH

Overall Protection of Public Health and the Environment:

The ERH alternative would be protective to public health and the environment because the source area would be treated in-situ. An on-Site treatment system would be constructed to treat extracted contaminated soil vapors. There would be no increase in odors or dust to the surrounding public. There is some increased potential exposure to contaminated materials by on-Site workers during drilling and/or handling contaminated water/ soil vapor removed by the treatment system.

Compliance with SCGs:

The ERH alternative would comply with SCGs as it would permanently remove contaminants in soil/ fill, bedrock and groundwater within the treatment area to the desired treatment goal. By removing source material, CVOCs in groundwater outside of the treatment area would be reduced in the long term. The ERH alternative would treat an area encompassing the inferred source area but would not



treat all areas of impacts nor would it meet unrestricted use. ERH would not address CVOCs sorbed to rock outside of the treatment area.

Long-Term Effectiveness and Permanence:

The ERH alternative would be effective in the long-term as it would permanently reduce concentrations in the source material including bedrock; however, back diffusion may occur from outside the treatment area after ERH implementation. In the long-term, concentrations of contaminants in groundwater would decline. This alternative would be permanent as the contaminants within the source area would be permanently destroyed; however, as previously mentioned back diffusion is possible from outside of the treatment area.

Short-Term Impact and Effectiveness:

In the short-term, the ERH alternative would not significantly impact the surrounding area. There would be some increased truck traffic as equipment is delivered to the Site and utility connections are completed. The ERH treatment would be effective in reducing contaminant concentrations within a relatively short duration (3 to 6 months) after startup.

Reduction of Toxicity, Mobility, or Volume with Treatment:

Toxicity, mobility, and volume of contaminants will be reduced because contaminants in the source area would be destroyed. Mobility of contaminated groundwater would not be immediately reduced; however, destruction of source area contaminants would reduce the impacts to groundwater overtime. The mobility of contaminants would have to be monitored during the initial startup of the system to confirm that CVOCs are not mobilized prior to achieving the boiling point of CVOCs. ERH would not address CVOCs sorbed to rock outside of the treatment area. In addition, ERH may result in heating of waste mass and igniting of landfill methane gas.

Implementability:

The ERH alternative would be moderately difficult to implement. Utilities including electric and sewer would need to be brought on-Site as there are currently no utilities at the Site.

Cost:

The ERH alternative is relatively costly to implement. The estimated cost to implement this alternative is \$5.6 million with a 30 year operation and maintenance cost of \$208,000.

Land Use:

The ERH alternative would be consistent with land use which is industrial.

Green Remediation:

The ERH alternative would be green in that truck traffic and waste would be limited. There would be spoils associated with electrode/ well installation but this is minimal compared to the excavation approach. The approach would consume significant electricity.

11.3 Groundwater Extraction and Ex-Situ Treatment System

Overall Protection of Public Health and the Environment:

The groundwater extraction and ex-situ treatment system would be protective to public health and the environment because there would be no exposure to contaminated soil/ fill or bedrock to the



public. An on-Site treatment system would be constructed to treat extracted contaminated groundwater. The treatment system would be secure to prevent access by the public. This alternative would result in hydraulic control of the plume and prevent off-Site migration that may pose a threat to human health or the environment off-Site. There would be no increase in odors or dust to the surrounding public. There is some increased potential exposure to contaminated materials by on-Site workers during drilling and/or handling contaminated water/ soil vapor within the treatment system.

Compliance with SCGs:

The groundwater extraction and ex-situ treatment system would not comply with SCGs in the short term as impacted soil/ fill above Industrial Use SCOs would not be removed. Groundwater within the treatment area would be treated to meet SCGs; however, back diffusion of CVOCs sorbed to bedrock would be a continued source of CVOCs in groundwater for a significant period of time.

Long-Term Effectiveness and Permanence:

The groundwater extraction and ex-situ treatment system would be effective in the long term as long as the treatment system remains in operation. If the system ceases operation, this alternative would no longer be effective.

Short-Term Impact and Effectiveness:

In the short-term, the groundwater extraction and ex-situ treatment system would be effective in reducing contaminants as long as the treatment system remains in operation. If the system ceases operation, this alternative would no longer be effective.

Reduction of Toxicity, Mobility, or Volume with Treatment:

The groundwater extraction and ex-situ treatment system would reduce mobility of contaminants but would not significantly reduce toxicity or volume of contaminants. This alternative provides hydraulic control of the plume; but, does not treat source material.

Implementability:

The groundwater extraction and ex-situ treatment system would be relatively difficult to implement due to significant operation and maintenance requirements in the short term and long term. Utilities including electric and sewer would need to be brought on-Site as there are currently no utilities at the Site.

Cost:

The groundwater extraction and ex-situ treatment system alternative is relatively costly to implement. The estimated cost to implement this alternative is \$3.0 million with a 30 year operation and maintenance cost of \$1.5 million.

Land Use:

The groundwater extraction and ex-situ treatment system alternative would be consistent with land use which is industrial.

Green Remediation:

Groundwater extraction and ex-situ treatment system would not be green due to the continuous long term operation of the system including electricity usage.



11.4 In-Situ Source Treatment with PRB

Overall Protection of Public Health and the Environment:

In-situ source treatment with PRB would be protective to public health and the environment because there would be no exposure to contaminated soil/ fill or bedrock to the public. The PRB would prevent off-Site migration that may pose a threat to human health or the environment off-Site. There would be no increase in odors or dust to the surrounding public. There is some increased potential exposure to contaminated materials by on-Site workers during drilling and injection work.

Compliance with SCGs:

In-situ source treatment with PRB would not comply with SCGs in the source area as impacted soil/ fill above Industrial Use SCOs would not be removed or degraded to these levels. Groundwater downgradient of the PRB would be treated to meet SCGs; however, back diffusion of CVOCs sorbed to bedrock would be a continued source of CVOCs in groundwater for a significant period of time.

Long-Term Effectiveness and Permanence:

The in-situ source treatment would not be effective in the long term because back diffusion from bedrock would provide a continued source of CVOCs in groundwater. The PRB would be effective in the long term as long as the PRB is replenished once the treatment chemical loses effectiveness (assumed to be every 10 years).

Short-Term Impact and Effectiveness:

In the short-term, in-situ source treatment and the PRB would be effective in reducing contaminants. There would be little impact to the surrounding community due to implementation of this alternative; however, there would be some truck traffic for delivery of treatment chemicals, etc. If bedrock blasting were to be utilized to construct the PRB, vibration monitoring would be conducted in the surrounding area to monitor any effects on surrounding infrastructure. There is a possibility for utilities to be effected by the bedrock blasting; however, the pilot test work did not indicate this to be an issue. Previous soil vapor testing findings during the ISCR PRB pilot test caused no short term impacts to soil vapor.

Reduction of Toxicity, Mobility, or Volume with Treatment:

In-situ source treatment would reduce the volume of contaminants; however, back diffusion will provide a continued source of CVOCs to groundwater and thus contaminant concentrations would likely rebound and toxicity and volume would remain a concern. The PRB would reduce toxicity of contaminants on the downgradient side of the PRB including off-Site by reducing CVOCs into less harmful breakdown products; thus, treating the mobility concern and reducing the toxicity and volume of contaminants as they migrate. While the volume of the P-1 Plume is decreasing and will continue to decrease with this alternative, the volume of source material will not be significantly reduced. Both the in-situ source treatment and PRB may cause a temporary increase in mobility of contaminants as injection methods and/or bedrock blasting may mobilize contaminants in bedrock. Mobility of contaminants in the long term will be reduced.

Implementability:

In-situ source treatment with PRB would be relatively difficult to implement due to the significant amount of injection wells required in the source area (approximately 118 wells). In an effort to minimize mobilization of contaminants in the source area, bedrock blasting would not be



implemented in the source area. As such, the tighter spacing of approximately 118 injection wells would be required in the source area.

Cost:

The in-situ source treatment with PRB alternative is relatively costly to implement. The estimated cost to implement this alternative are \$4.9 million for the blasted bedrock trench and \$5.5 million for pneumatic, with a 30 year operation and maintenance cost of \$1.8 million for the blasted bedrock trench and \$3 million for pneumatic.

Land Use:

The in-situ source treatment with PRB alternative would be consistent with land use which is industrial.

Green Remediation:

In-situ source treatment with PRB would be green because contaminants are being treated in-situ and additional utilities are not required. There would be spoils associated with well installation, but this is minimal compared to the excavation approach.

11.5 PRB with MNA

Overall Protection of Public Health and the Environment:

PRB with MNA would be protective to public health and the environment because there would be no exposure to contaminated soil/ fill or bedrock to the public. The PRB would prevent off-Site migration that may pose a threat to human health or the environment off-Site. There would be no increase in odors or dust to the surrounding public. There is some increased potential exposure to contaminated materials by on-Site workers during drilling and PRB construction. Based on soil vapor screening conducted during the ISCR PRB pilot test, off-Site migration of soil vapor does not appear to be an issue.

Compliance with SCGs:

PRB with MNA would not comply with SCGs for the source area soil/ fill above Industrial Use SCOs. Groundwater downgradient of the PRB would be treated to meet SCGs; however, back diffusion of CVOCs sorbed to bedrock within the source area would be a continued source of CVOCs in groundwater for a significant period of time.

Long-Term Effectiveness and Permanence:

PRB with MNA would be effective in the long term as long as the PRB is replenished once the treatment chemical loses effectiveness (assumed to be every 10 years). It should be noted that reinjection into the PRB area may present some complications at that time and additional injection wells adjacent to the previously installed PRB may be necessary.

Short-Term Impact and Effectiveness:

In the short-term, PRB with MNA would be effective in reducing contaminants. There would be little impact to the surrounding community due to implementation of this alternative; however, there would be some truck traffic for delivery of treatment chemicals, etc. If bedrock blasting were to be utilized to construct the PRB, vibration monitoring would be conducted in the surrounding area to monitor any effects on surrounding infrastructure. There is a possibility for utilities to be effected by



the bedrock blasting; however, the pilot test work did not indicate this to be an issue. Previous soil vapor testing findings during the ISCR PRB pilot test caused no short term impacts to soil vapor.

Reduction of Toxicity, Mobility, or Volume with Treatment:

PRB with MNA would reduce toxicity of contaminants on the downgradient side of the PRB including off-Site because these technologies will both reduce CVOCs into less harmful breakdown products; thus, treating the mobility concern and reducing the toxicity and volume of migrating contaminants. While the volume of the P-1 Plume is decreasing and will continue to decrease with this alternative, the significant volume of source material will only be minimally reduced. The PRB may cause a temporary increase in mobility of contaminants as injection methods and/or bedrock blasting may mobilize contaminants in bedrock. Based on the ISCR PRB pilot test, mobility of contaminants in the long term will be reduced.

Implementability:

A pilot test was completed to evaluate this technology and proved that this technology was easy to implement.

Cost:

The PRB with MNA alternative is cost effective. The estimated cost to implement this alternative via blast-enhanced bedrock trench with hydraulic injections are \$1.6 million for the blasted bedrock trench and \$2.1 million for pneumatic, with a 30 year operation and maintenance cost of \$1.8 million for the blasted bedrock trench and \$3 million for pneumatic.

Land Use:

The PRB with MNA alternative would be consistent with land use which is industrial.

Green Remediation:

PRB with MNA would be green because contaminants are being treated in-situ and additional utilities are not required. There would be spoils associated with well installation, but this is minimal compared to the excavation approach.

11.6 MNA

Overall Protection of Public Health and the Environment:

MNA would be protective to public health and the environment because there would be no exposure to contaminated soil/ fill or bedrock to the public. There would be no increase in odors or dust to the surrounding public. Based on the MNA evaluation conducted during the RI, degradation is occurring; however, degradation at the property boundary is incomplete. Institutional controls will prevent off-Site exposure if implemented properly.

Compliance with SCGs:

MNA would not comply with SCGs as impacted soil/ fill above Industrial Use SCOs would not be removed. Back diffusion of CVOCs sorbed to bedrock within the source area would be a continued source of CVOCs in groundwater for a significant period of time. Biodegradation would continue to occur and the P-1 Plume would continue to decrease in size; however, it is assumed that the CVOCs within the source area would remain for a significant period of time.



Long-Term Effectiveness and Permanence:

MNA would be effective in the long term because the P-1 Plume would continue to decrease in size and biodegradation would continue to occur; however, source area impacts will remain for a significant period of time.

Short-Term Impact and Effectiveness:

Short-term effects of MNA would be negligible as this alternative requires long-term groundwater monitoring to measure effects. There would be little impact to the surrounding community due to implementation of this alternative.

Reduction of Toxicity, Mobility, or Volume with Treatment:

MNA would reduce toxicity of contaminants migrating downgradient and off-Site because biodegradation will continue to reduce CVOCs into less harmful breakdown products. Mobility of contaminants will also be reduced in the long term because the overall size of the P-1 Plume is decreasing. While the volume of the P-1 Plume is decreasing, volume of source material will only minimally decrease with MNA.

Implementability:

MNA would be easy to implement.

Cost:

The MNA alternative is cost effective. The estimated cost to implement this alternative is \$1.1 million with a 30 year operation and maintenance cost of \$463,000.

Land Use:

The MNA alternative would be consistent with land use which is industrial.

Green Remediation:

MNA would be green because contaminants are being treated in-situ and additional utilities are not required. There would be spoils associated with well installation but this is minimal compared to the excavation approach.

A table representing the evaluation of each alternative is provided on the following page.



Summary of Evaluation of Alternatives

Alternative	Protection of Human Health and the Environment	Compliance with SCGs	Long-Term Effectiveness	Short-Term Effectiveness	Reduction of Toxicity, Mobility or Volume	Ease of Implementation	Cost-Effective	Appropriate based on Future Anticipated Land Use	Green
A. Excavation		X	X	X	X			X	
B. Electrical Resistance Heating	X	X	X	X	X			X	X
C. Groundwater Extraction and Ex-Situ Treatment System	X	X*	X	X	X			X	
D. In-Situ Source Treatment with PRB	X	X*		X	X			X	X
E. Permeable Reactive Barrier with Monitored Natural Attenuation	X	X*	X	X	X	X	X	X	X
F. Monitored Natural Attenuation		X*	X			X	X	X	X

Shaded row indicates selected alternative.

* indicates alternative will comply with SCGs in the top 1-ft with ICs and ECs in place and SCGs may be achieved in the subsurface in the long term as CVOCs in groundwater degraded via natural attenuation. A cap/ cover will be applied for all alternatives to meet SCGs in the top 1-ft across the entire Site.



12. Recommended Alternative- PRB with MNA

The PRB with MNA alternative is protective to human health and the environment, will comply with SCGs in the top 1-ft in the short term and may meet SCGs in the subsurface overtime, is effective in the short-term and long-term for reducing contaminant migration off-Site, is relatively easy to implement, is cost-effective, is appropriate for land use (industrial) and is 'green'. This alternative meets each of the evaluation criteria and meets more evaluation criteria than any other alternative that was evaluated. Community acceptance will be evaluated during a public comment period; however, opposition from the community is not anticipated.

Based on the evaluations completed to date including the 2017 pilot test, a PRB with MNA is a viable remedy for the P-1 Plume and is recommended as the final remedy in conjunction with the ICs and ECs discussed in Section 13. Further details regarding the recommended remedy are provided in the following subsections.

12.1 PRB

A Pilot Test Work Plan dated October 2017 was completed which evaluated various treatment chemicals and injection methods for implementing ISCR via a PRB.

The following iron products were considered:

- a. Nano Scale ZVI
- b. Micro Scale ZVI
- c. Emulsified ZVI
- d. Colloidal ZVI and Carbon
- e. Micro Scale ZVI and Carbon

The following delivery methods were considered:

- a. Pneumatic injection
- b. Blast-enhanced bedrock trench hydraulic injection

The selected treatment chemical for the pilot test was micro scale ZVI. Both delivery methods were selected for pilot testing. The pilot test was implemented from October to November 2017 and groundwater monitoring was conducted at 2 months, 3.5 months, 7 months, and 15 months subsequent to the ISCR PRB pilot test. A PRB was constructed using each delivery method. A blast-enhanced bedrock trench PRB was constructed 50-ft in length, 5-ft in width, and 16-ft in depth (from 0-16-ft btr). Approximately 28,000 lbs of ZVI was injected via hydraulic methods into the blast-enhanced bedrock trench. A separate PRB 90-ft in length, 30-ft in width and 16-ft in depth (from 0-16-ft btr) was constructed via pneumatic injections. Refer to Figure 6 for the pilot test location. Approximately 28,000 lbs of ZVI was injected in the PRB constructed via pneumatic techniques. The results of the pilot test are further detailed in the *Pilot Test Monitoring Report* included as Appendix 1. A summary of the conclusions drawn from the pilot test is as follows:



General Conclusions/ Recommendations:

- ZVI appears to be effective in reducing CVOCs in groundwater associated with the P-1 Plume. ZVI can be injected at adequate volume and dosing within bedrock Zones A and B which contain a majority of the contaminant mass in both the bedrock matrix and the groundwater matrix.
- Initial increases in the concentration of contaminants were observed with both ZVI placement approaches. The increase in total CVOCs may be due to several factors:
 - Previous drilling work indicated a potential for contaminants to be displaced from bedding planes and fractures during drilling of the bedrock. Well installations, bedrock blasting, and/or ZVI injections may have moved groundwater around the bedrock zone being monitored. Sampling within a short duration after well installations, bedrock blasting, and/or ZVI injections may not have allowed the bedrock zone being monitored to equilibrate.
 - The RI data indicated that bedrock matrix samples from LAB-SBW-15 and LAB-SBW-16 contained CVOCs in the rock matrix. This contaminant mass in the bedrock within and downgradient of the PRB likely contributed to increased CVOCs initially since the PRB construction disturbed the equilibrium in the bedrock and may have lead to a release of some contaminants from the bedrock matrix (particularly with the enhanced bedrock trench due to the significant increase in surface area of the rock matrix due to the blasting).
- The location of any PRB in comparison to the source should consider impacts in the bedrock matrix. The pilot test PRBs considered this during the planning phase; however, based on lower groundwater concentrations and the ability to utilize existing well distribution, the pilot test PRBs were constructed north of LAB-SBW-15 and LAB-SBW-16. CVOCs in the rock matrix downgradient of the PRB will contribute to the downgradient groundwater concentrations due to back diffusion. Based on this, consideration should be given to moving the PRB south of the pilot test location.

The following method specific conclusions/recommendations were made during the pilot test:

Blast Enhanced Bedrock Trench

- PRB Area – The blasting work assumed a 2.5 ft. radius of influence (i.e., 5-ft. diameter). Measurements/observations of the area effectively blasted could not be obtained. As such, the assumed radius is utilized (note, based on extensive experience by the blasting company the blast area appears to be typical and there is little concern for any significant variation). The ZVI was observed in all locations within the trench with the exception of ML-7D. It should be noted that the shallow monitoring intervals of ML-6S and ML-7S contained significant ZVI (over 3 ft.); however, ML-8S did not have a measurable difference for the depth to bottom. Figure 6 illustrates the estimated area of the PRB. The material was easily placed within the trench via one injection point indicating an effective ‘radius’ of influence of at least 30-ft. (note, radius for the blast enhanced bedrock trench refers to the distance the material was observed to be placed laterally within the trench and is limited to the length and width of blasted bedrock trench itself). However, based on



the significant amount of ZVI observed in the shallow intervals on either side of the injection point (i.e., ML-6 and ML-7) and a lack of significant ZVI in ML-8, a more conservative radius of influence of 20 to 25 ft. would be recommended for this approach.

- PRB Thickness – The RI Report indicated a groundwater velocity of 2 to 3 ft/day. The blast enhanced bedrock trench pilot test utilized a single row of blast points with an estimated 5-ft. diameter. As such, the residence time of the water flowing through the PRB is approximately 1.7 to 2.5 days. Based on the available data, complete degradation appears to be occurring (as noted by increasing concentrations of ethane and ethene in LAB-SBW-15); however, some CVOCs were still present in LAB-SBW-15. This may be a function of inadequate residence time; however, it may also be due to contaminant mass in the bedrock matrix in the area of LAB-SBW-15. As noted above, a full-scale PRB is recommended to be completed further south of the pilot PRB. This should address the potential back diffusion issues in the area of the current PRB. In this event, LaBella would recommend that the blast enhanced bedrock trench PRB utilize the current thickness (with additional dosing noted below). Monitoring on the downgradient side would determine if any areas require re-assessment.
- Dosing Rate – This approach utilized a dosing rate of 6% (mass of ZVI amendment to mass of bedrock). There was no ‘day-lighting’ of material observed and excessive back pressure was not incurred during the injection intervals. Although ZVI was observed in all intervals, except MW-7D, additional ZVI could likely have been placed. A full scale injection via a blast enhanced bedrock trench could utilize a higher dosing rate. Although the actual amount that could be placed may vary, for planning purposes a dosing rate of 8% or 10% should be utilized.

Pneumatic Injection

- PRB Area – The pneumatic injection work assumed a 15-ft. radius of influence for each injection point. The injection work around IP-4 and IP-5 appeared to influence the multi-level wells nearest these locations (ML-1 and ML-2); however, IP-4 did not appear to influence locations to the west (IP-3 and ML-4) to the same degree as to the east. In addition, ZVI was not observed in the intermediate and deep intervals at ML-3 (i.e., ML-3I and ML-3D) which is only 8 ft. north of IP-3. Additionally, ZVI was not observed in ML-5 intermediate interval (i.e., ML-5I). This variable influence is expected in a fractured bedrock zone. Based on this, some overlapping of intervals would be recommended for a full-scale pneumatic injection. This could include a second row of injection points off-set from the initial row.
- PRB Thickness – The RI Report indicated a groundwater velocity of 2 to 3 ft/day. The pneumatic injection PRB pilot test utilized a single row of injection points with an estimated 30-ft. diameter. As such, the residence time of the water flowing through the PRB is approximately 10 to 15 days. Based on the available data, complete degradation appears to be occurring (as noted by increasing concentrations of



ethane and ethene in LAB-SBW-16); however, some CVOCs were still present in LAB-SBW-16. This may be a function of inadequate residence time; however, it may also be due to contaminant mass in the bedrock matrix in the area of LAB-SBW-16. As noted above, a full-scale PRB is recommended to be completed further south of the pilot PRB. This should address the potential back diffusion issues in the area of the current PRB. Also, as noted above, overlapping injection points are recommended to ensure a continuous PRB and if completed with an additional row, this would increase the PRB thickness. Monitoring on the downgradient side would determine if any areas require re-assessment.

- Dosing Rate – This approach utilized a dosing rate of 0.6% (mass of ZVI amendment to mass of bedrock). There was no ‘day-lighting’ of material observed and excessive back pressure was not incurred during the injection intervals. ZVI was not observed in all intervals as noted above and additional ZVI could likely have been placed. A full scale pneumatic injection could utilize a higher dosing rate. Although the actual amount that could be placed may vary, for planning purposes a dosing rate of 1% should be utilized.

Based on the pilot test results, ZVI would be successful in constructing a PRB to meet the remedial action objectives and both delivery methods would be successful in constructing a PRB to meet the remedial action objectives. The selected delivery method will be detailed in a Remedial Action Work Plan.

12.2 MNA

In accordance with EPA *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water* dated September 1998 (“EPA Technical Protocol”), a preliminary analysis was performed using the data collected during the RI (May 2017 low-flow sampling event) to determine if biodegradation is occurring. In accordance with the EPA Technical Protocol, the evaluation compared data from 1) the most contaminated portion of the aquifer (i.e., source area), 2) downgradient from the source area but still in the dissolved contaminant plume, 3) downgradient from the dissolved contaminant plume, and 4) upgradient and lateral locations not affected by the plume. The following classifications were used:

Source Area	LAB-SBW-04, LAB-SBW-05, LAB-SBW-09
Downgradient but within dissolved contaminant plume	LAB-SBW-15, LAB-SBW-16
Downgradient from dissolved plume	GMX-MW-3, GMX-MW-6S
Upgradient (background)	LAB-SBW-11

The following table includes the evaluation criteria on Table 2.3 of the EPA Technical Protocol that were met and the corresponding value applied for each criteria. Data was averaged for each classification of wells for this evaluation.



EPA Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater- Preliminary Screening Evaluation

Analysis	Criteria to be met	Interpretation	Units	Source	Downgradient, within dissolved Plume	Downgradient from Plume	Upgradient (Background)	Value from EPA Technical Protocol
Oxygen	<0.5 mg/L in most contaminated zone	Tolerated, suppresses the reductive pathway at higher concentrations	mg/L	0.24	0.24	2.74	0.34	3
Methane	>0.5 mg/L in most contaminated zone	Ultimate reductive daughter product, VC accumulates	mg/L	0.57	0.38	0.74	1.2	3
ORP	<-100 mV in most contaminated zone	Reductive pathway likely	mV	-121.9	-109.3	-2.85	-156.8	2
pH	5<pH<9 in most contaminated zone	Optimal range for reductive pathway	--	7.0	6.9	7.0	6.7	0
TOC	>20 mg/L in most contaminated zone	Carbon and energy source; drives dechlorination; can be natural or anthropogenic	mg/L	23.10	28.35	16.95	30.80	2
Chloride	source is >2X background	Daughter product of organic chlorine	mg/L	644	689	212	225	2
BTEX	>0.1 mg/L in most contaminated zone	Carbon and energy source; drives dechlorination	mg/L	0.2	0.02	0.01	ND	2
DCE	Present as daughter product of DCE in most contaminated zone. If cis is > 80% of total DCE, it is likely a daughter product	Daughter product of TCE	% of total DCE	98%	100%	100%	ND	2
VC	Present as daughter product of DCE in most contaminated zone	Daughter product of DCE	ug/L	4,791	94.8	152.5	ND	2
Total								18



Parameters including oxygen, ORP, and pH were collected in the field, and the readings immediately prior to sample collection (i.e., when parameters were stabilized) from the May 2017 sampling were used in the evaluation. The average oxygen concentration in the source area was 0.24 mg/L, which met the criteria of less than 0.5 mg/L. The average methane concentration in the source area was 0.57 mg/L, which met the criteria of greater than 0.5 mg/L. The average ORP in the source area was -121.9 millivolts (mV) which met the criteria of less than -100 mV. The average total organic carbon (TOC) concentration in the source area was 23.10 mg/L, which met the criteria of >20 mg/L. The average chloride concentration in the source area was 644 mg/L, which is more than double the upgradient/ background concentration of 225 mg/L. BTEX is present in the source area at 0.2 mg/L, which met the criteria of greater than 0.1 mg/L. Cis-1,2-dichloroethene is present at greater than 80% of total DCE in the source area indicating it is a daughter compound of TCE as opposed to material released. Similarly, vinyl chloride was present at much higher concentrations in the source area than downgradient and concentrations have increased over time indicating vinyl chloride is present as a daughter product of DCE as opposed to material released.

In accordance with the EPA Technical Protocol Table 2.4, the total score is 18 which indicates there is “*Adequate Evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics*”. Additionally, CSIA results indicate natural transformation of parent material (PCE and TCE) to daughter products is occurring.

In addition to this evaluation, pilot test data also indicates MNA is occurring downgradient of the PRBs installed based on complete degradation as indicated by increasing concentrations of ethane and ethene in wells downgradient of the PRBs (LBA-SBW-15 and LAB-SBW-16). In addition, parent compounds PCE and TCE have decreased to non-detect during the last round of pilot test monitoring with the exception of 14 ppb TCE in ML-7D in which ZVI was not observed (decreased from 100 ppb from baseline).

Based on the evaluations completed, MNA is occurring and is a viable remedial technology for implementation at the Site in conjunction with a PRB.

13. Institutional and Engineering Controls

In addition to the recommended PRB with MNA approach, ICs and ECs are required to comply with SCGs.

13.1 Institutional Controls

The following ICs are currently in place and will remain in place as part of the final remedy:

- Two (2) guidance documents have been developed for the FESL:
 - **Former Emerson Street Landfill Sub-Slab Ventilation Guidance Document Update 2013 by LaBella dated October 2013**- This document provides guidance on evaluating and mitigating SVI for buildings on the FESL. This document will be implemented for any buildings constructed at the Site in the future.
 - **Guidance for Waste-fill Management During Site Development on the Former**

- 36 -

Feasibility Study
NYSDEC Site #828023
Former Emerson Street Landfill- P-1 Plume
Rochester, New York
LaBella Project No. 210173



Emerson Street Landfill by LaBella dated October 2013- This document provides guidance on identifying, handling, managing and disposing of fill material associated with the FESL. This document will be implemented during any subsurface work at the Site.

- All properties on the FESL are flagged in the City's permit system which prevents permit issuance without consideration for FESL-related concerns including fill material and the potential for SVI. City Division of Environmental Quality staff review permit requests for properties on the FESL to ensure the appropriate ICs/ ECs are implemented.
- The use of groundwater in the City is prohibited by City code.

13.2 Engineering Controls

The recommended remedial alternative, PRB with MNA will not meet SCGs; as such, a cover system will be constructed across the entire 1700 Emerson Street parcel to prevent exposure to contaminated subsurface material. The cover system will consist of a minimum of 1-ft of imported soil and/ or crushed stone that meets NYSDEC Industrial Use SCOs. In 1971 the landfill was officially closed and a contract for the closure of the eastern half of the landfill specified 2 feet of cover material (preferred to be a sandy loam) to be placed and compacted to 30% in 1 foot lifts. The cover system across the 1700 Emerson Street parcel varies in thickness; as such, a cover system will be reconstructed across the 1700 Emerson Street parcel.

The berm near the center of the Site will be regraded to level out the Site. Subsequently, the existing approximate 20,000 CY of staged material in the southeastern portion of the Site that meets SCGs, and an additional 10,000 CY or more, of material that meets SCGs will be brought onto the Site and placed across the Site as the final cover. A total of 30,000 CY will provide approximately 1.5-ft of cover across the entire Site. Proper stormwater drainage will be installed and maintained as part of the cover system design. In addition, stickup well casings will be modified (raised/ lowered based on final grades) to be accessible following regrading/ cover. Lastly, additional fencing will be added to the western property boundary so the entire Site is secured with fencing.

\\PROJECTS2\PROJECTSNZ-2\ROCHESTER, CITY\210173 FESL\REPORTS\FEASIBILITY STUDY\828023 FEASIBILITY STUDY.DOCX

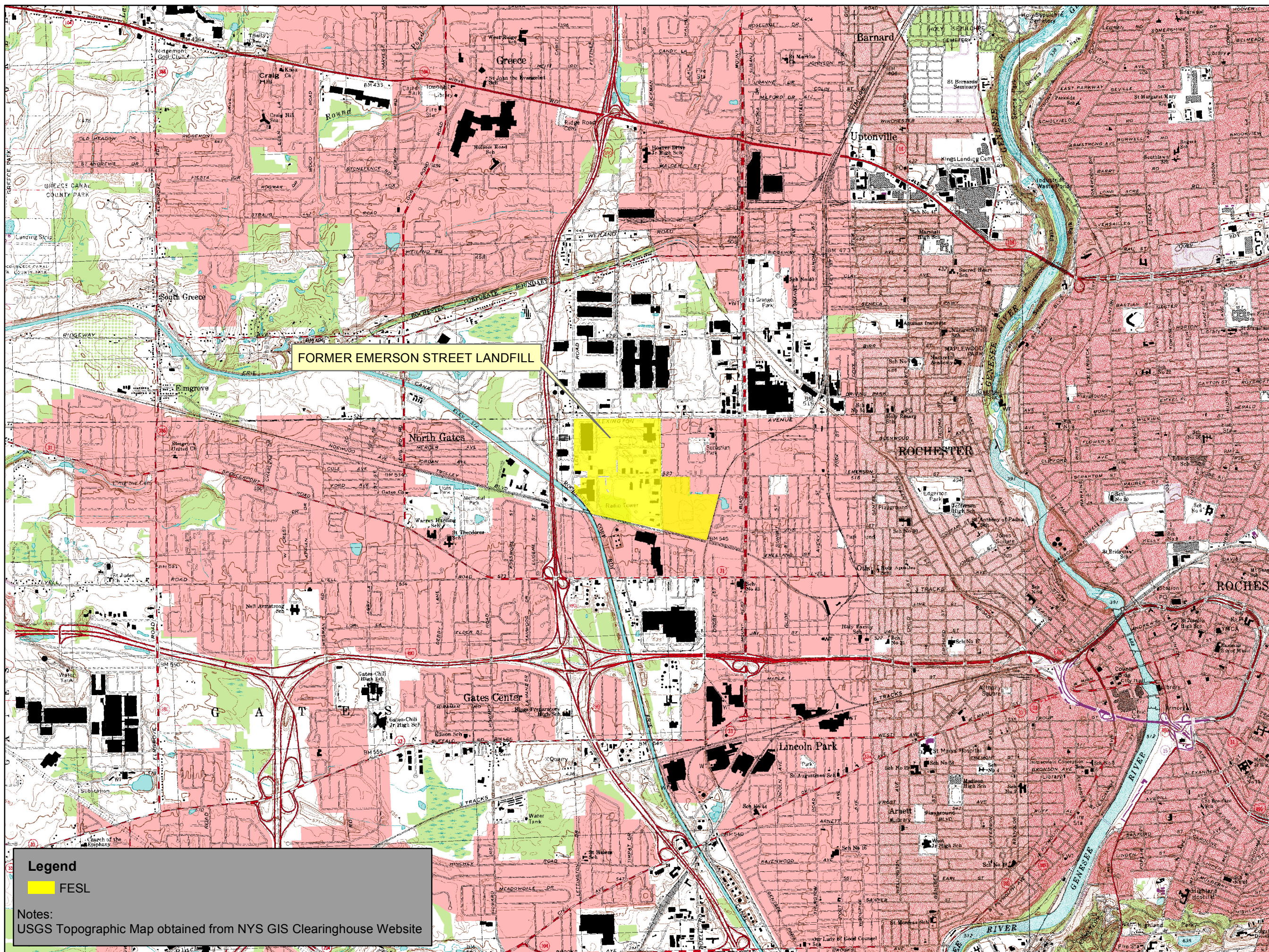




FIGURES

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023
CITY OF ROCHESTER**

SITE LOCATION MAP



FORMER EMERSON STREET LANDFILL

Legend
 FESL

Notes:
 USGS Topographic Map obtained from NYS GIS Clearinghouse Website

N
 W —+— E
 S

0 1,500 3,000
 Feet

1 inch = 3,000 feet
 Intended to print as 11x17

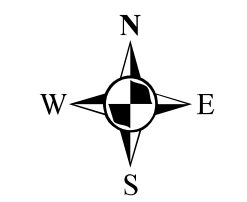
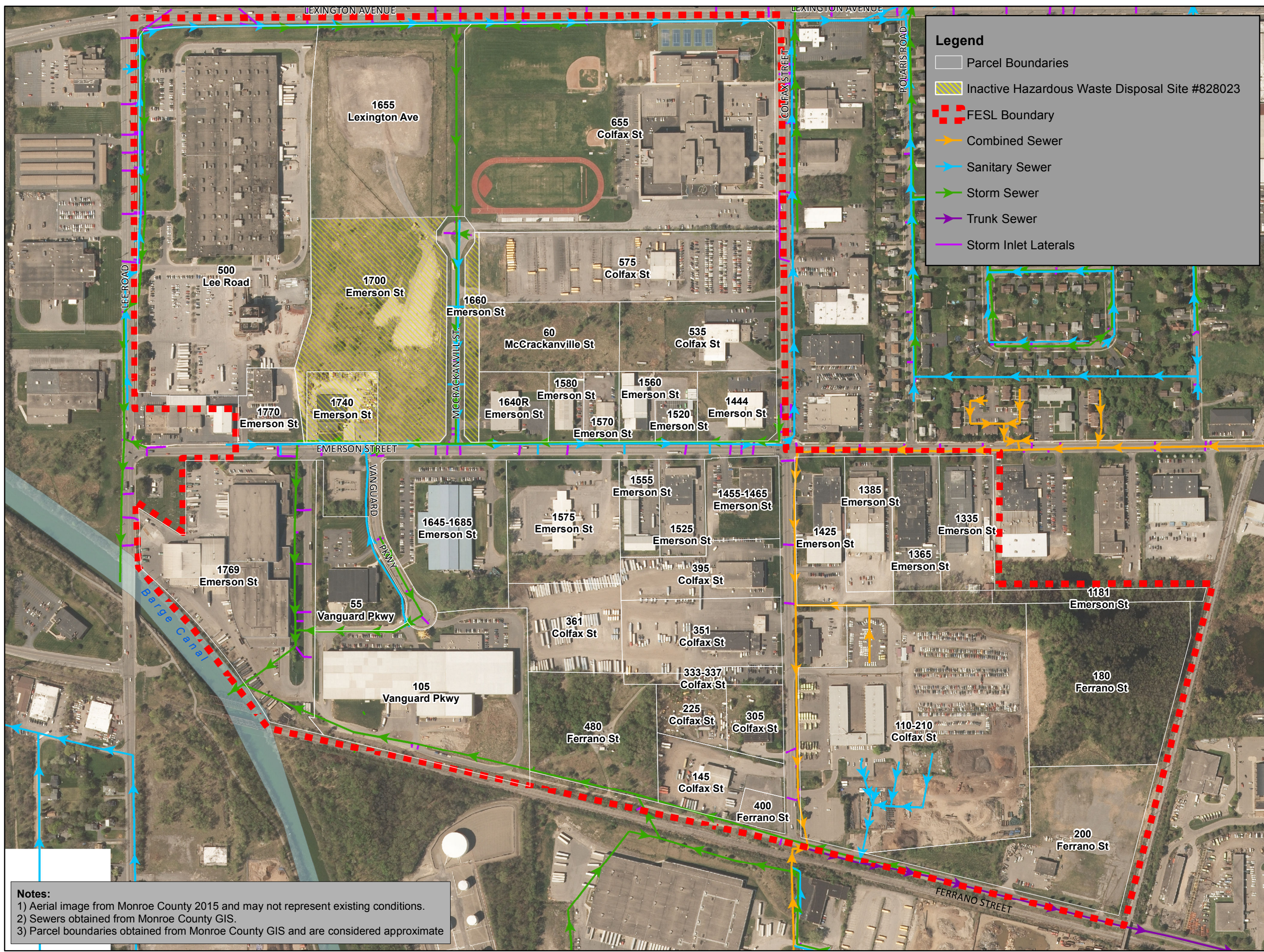
[210173]
 [FIGURE 1]

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023
CITY OF ROCHESTER**

FORMER EMERSON STREET
LANDFILL FOOTPRINT

Legend

- Parcel Boundaries
- Inactive Hazardous Waste Disposal Site #828023
- FESL Boundary
- Combined Sewer
- Sanitary Sewer
- Storm Sewer
- Trunk Sewer
- Storm Inlet Laterals



0 400 Feet
1 inch = 400 feet
Intended to print as 11x17

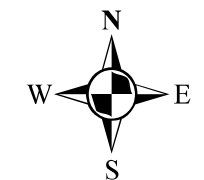
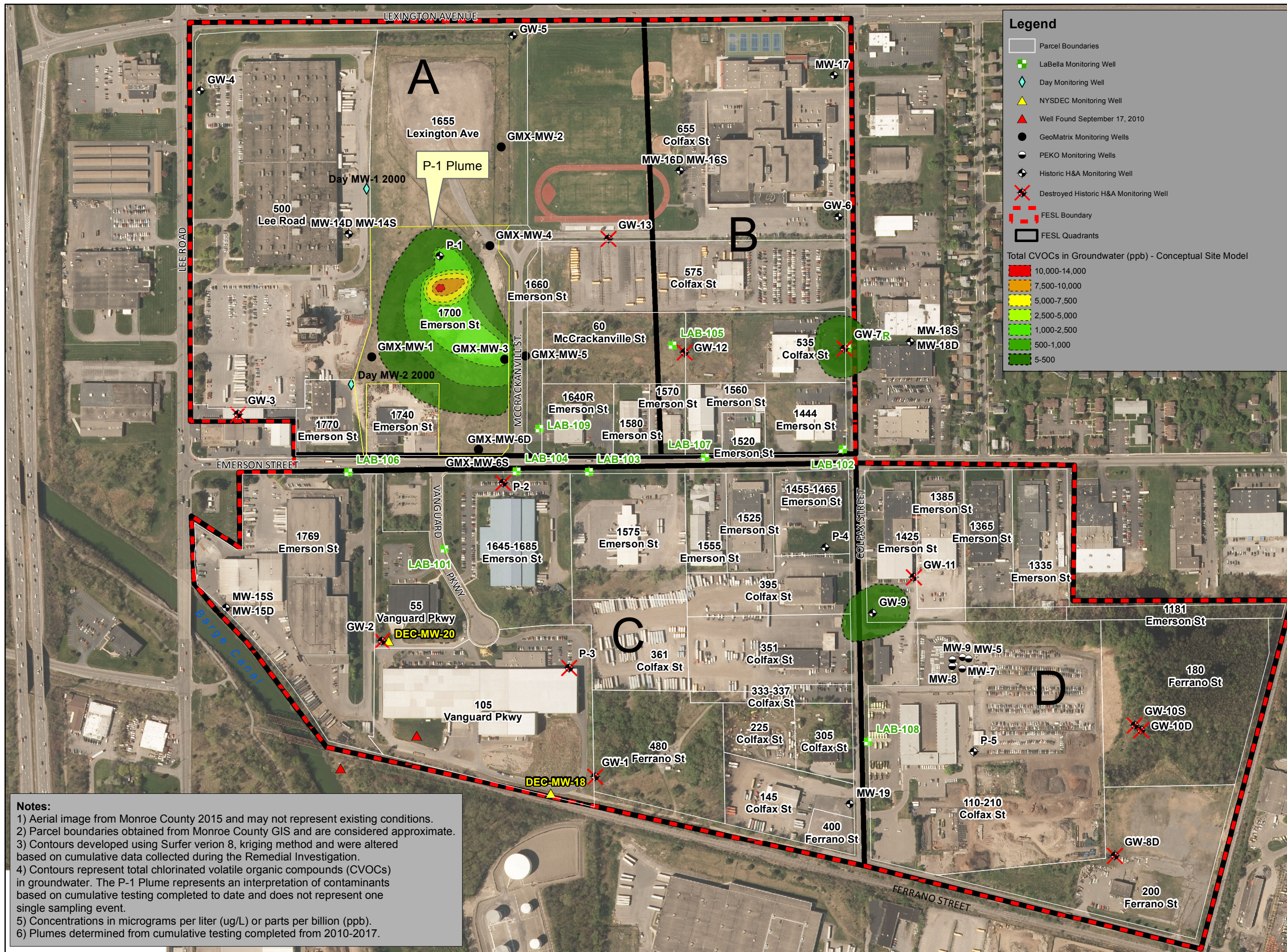
[210173]
[FIGURE 2]

Notes:
1) Aerial image from Monroe County 2015 and may not represent existing conditions.
2) Sewers obtained from Monroe County GIS.
3) Parcel boundaries obtained from Monroe County GIS and are considered approximate

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023**

CITY OF ROCHESTER

FESL MONITORING WELL
LOCATIONS AND KNOWN
CVOC PLUMES



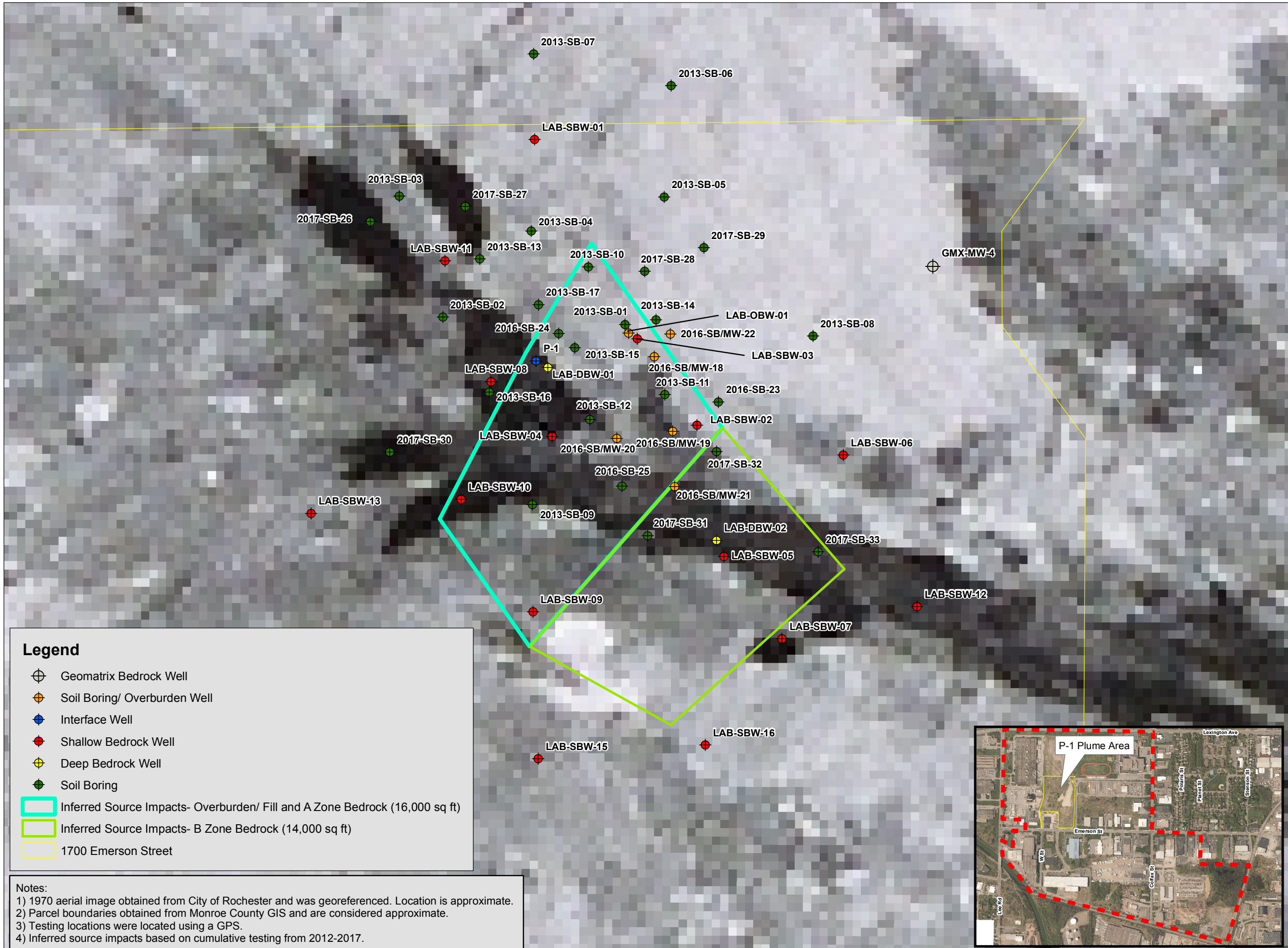
0 400 Feet
1 inch = 400 feet

Intended to print as 11x17

[210173]
[FIGURE 3]

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023
CITY OF ROCHESTER**

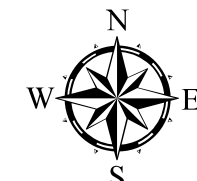
**P-1 PLUME AREA
CUMULATIVE SOIL BORINGS
AND MONITORING WELLS
& INFERRED SOURCE AREA
IMPACTS**



Legend

- Geomatrix Bedrock Well
- Soil Boring/ Overburden Well
- Interface Well
- Shallow Bedrock Well
- Deep Bedrock Well
- Soil Boring
- Inferred Source Impacts- Overburden/ Fill and A Zone Bedrock (16,000 sq ft)
- Inferred Source Impacts- B Zone Bedrock (14,000 sq ft)
- 1700 Emerson Street

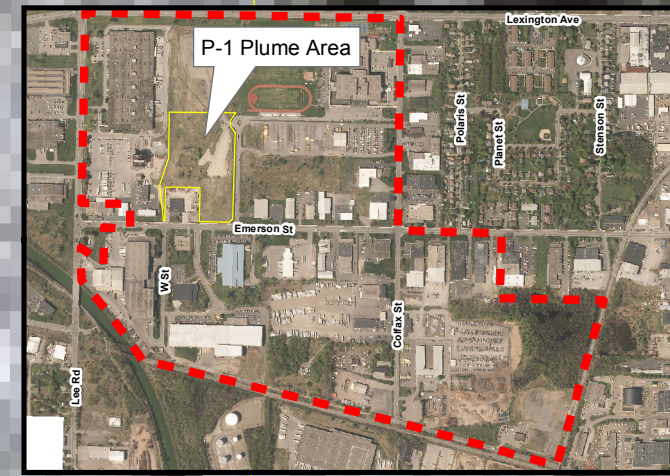
Notes:
 1) 1970 aerial image obtained from City of Rochester and was georeferenced. Location is approximate.
 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
 3) Testing locations were located using a GPS.
 4) Inferred source impacts based on cumulative testing from 2012-2017.



0 50
Feet

1 inch = 50 feet

Intended to print on 11x17



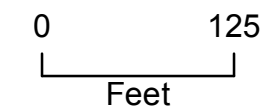
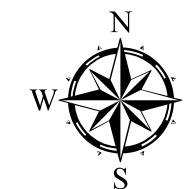
[210173]

[FIGURE 4]

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023**

CITY OF ROCHESTER

P-1 PLUME
CONCEPTUAL SITE MODEL



1 inch = 125 feet

Intended to print on 11x17

[210173]

[FIGURE 5]

Legend

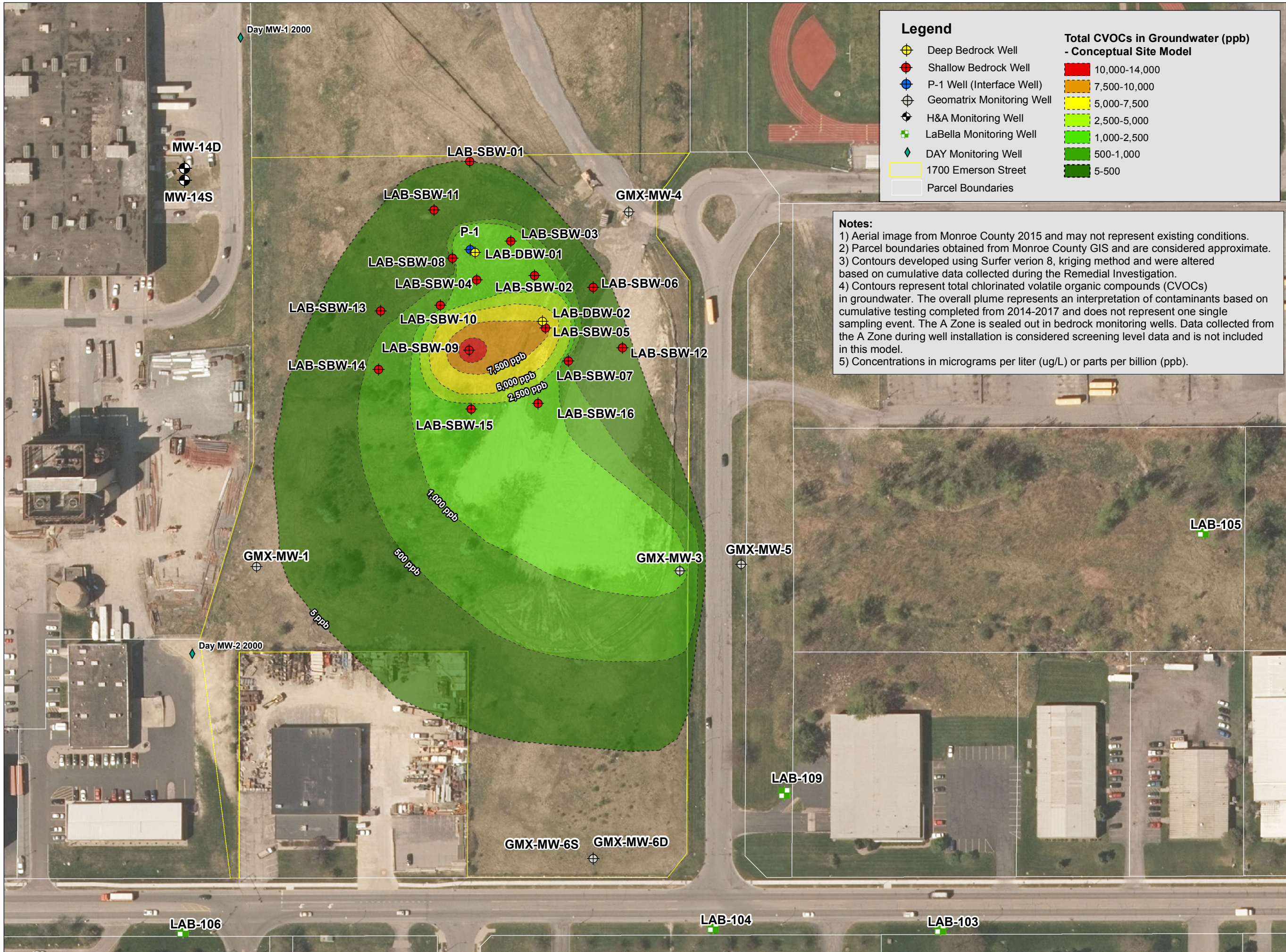
- Deep Bedrock Well
- Shallow Bedrock Well
- P-1 Well (Interface Well)
- Geomatrix Monitoring Well
- H&A Monitoring Well
- LaBella Monitoring Well
- DAY Monitoring Well
- 1700 Emerson Street
- Parcel Boundaries

**Total CVOCs in Groundwater (ppb)
- Conceptual Site Model**

- 10,000-14,000
- 7,500-10,000
- 5,000-7,500
- 2,500-5,000
- 1,000-2,500
- 500-1,000
- 5-500

Notes:

- 1) Aerial image from Monroe County 2015 and may not represent existing conditions.
- 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
- 3) Contours developed using Surfer version 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed from 2014-2017 and does not represent one single sampling event. The A Zone is sealed out in bedrock monitoring wells. Data collected from the A Zone during well installation is considered screening level data and is not included in this model.
- 5) Concentrations in micrograms per liter (ug/L) or parts per billion (ppb).

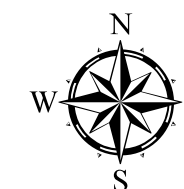


Path: \\Projects2\Projects\N2-2\Rochester_City\210173_FESLD\Drawings\FS\Figure 5- Overall P1 Plume.mxd

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023**

CITY OF ROCHESTER

**Pilot Test Location and
Results
Inferred Permeable
Reactive Barriers**

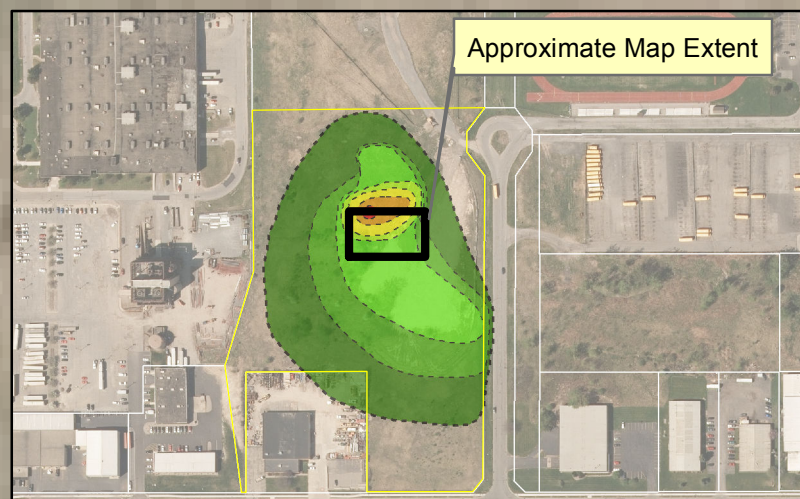


1 inch = 15 feet

Intended to print on 11x17

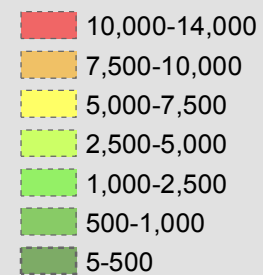
[210173]

[FIGURE 6]

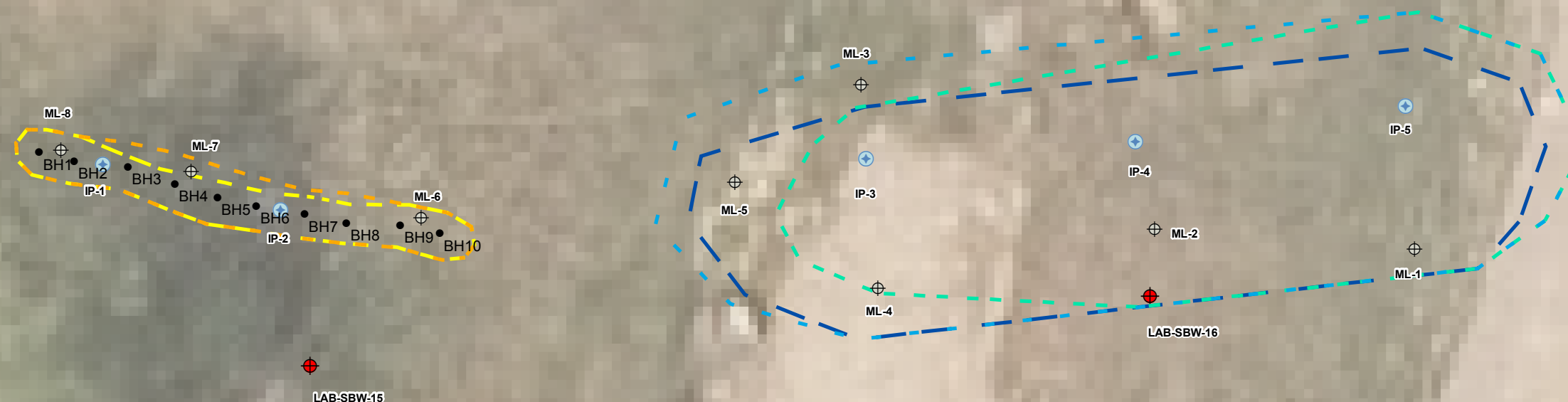
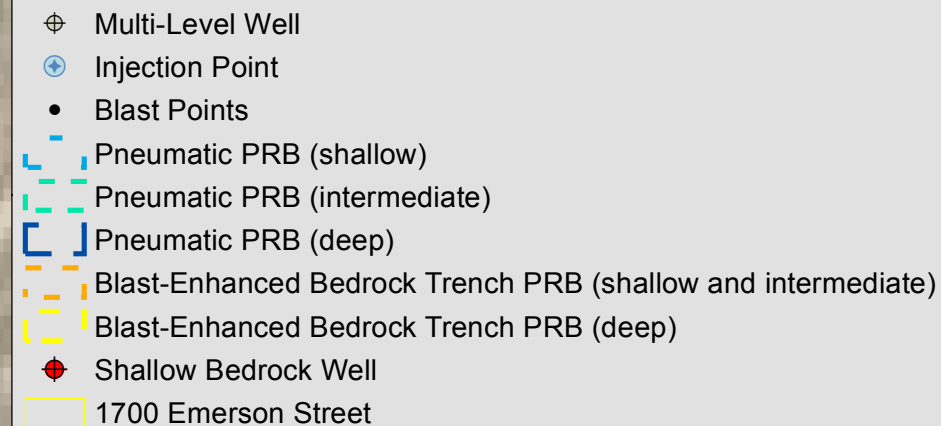


B-SBW-09

Total CVOCs in Groundwater (ppb)



Legend



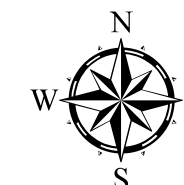
Notes:

- 1) Aerial image from 2015 and may not represent existing conditions.
- 2) Parcel boundaries are approximate.
- 3) Contours developed using Surfer version 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed to date and does not represent one single sampling event.
- 5) All locations shown were located using a GPS.
- 6) PRB extents are estimated based on visual observations of ZVI.

**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023**

CITY OF ROCHESTER

**ALTERNATIVE A
EXCAVATION**



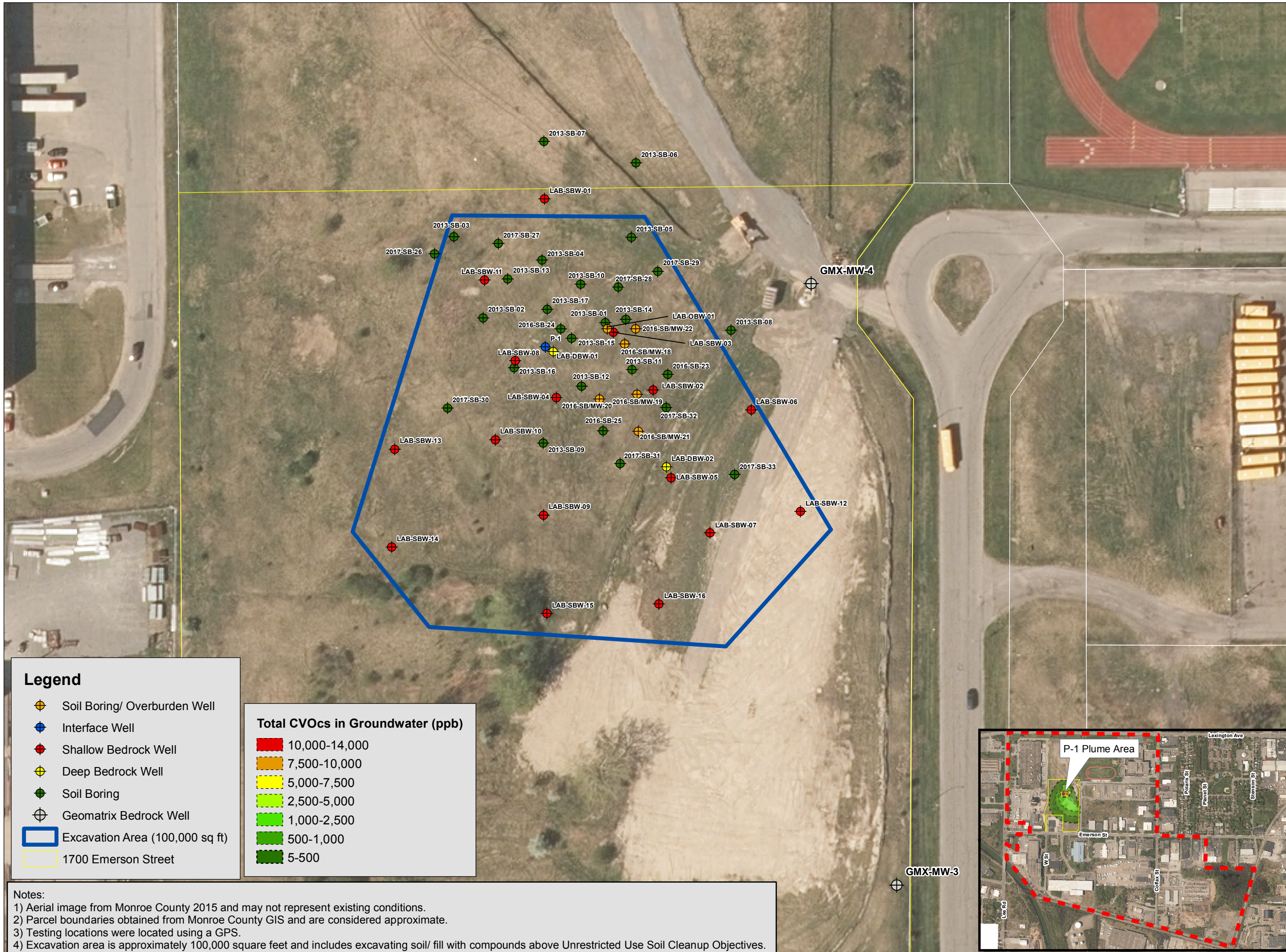
0 75
Feet

1 inch = 75 feet

Intended to print on 11x17

[210173]

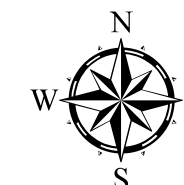
[FIGURE 7]



**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023**

CITY OF ROCHESTER

**ALTERNATIVE B
ELECTRICAL RESISTANCE
HEATING**



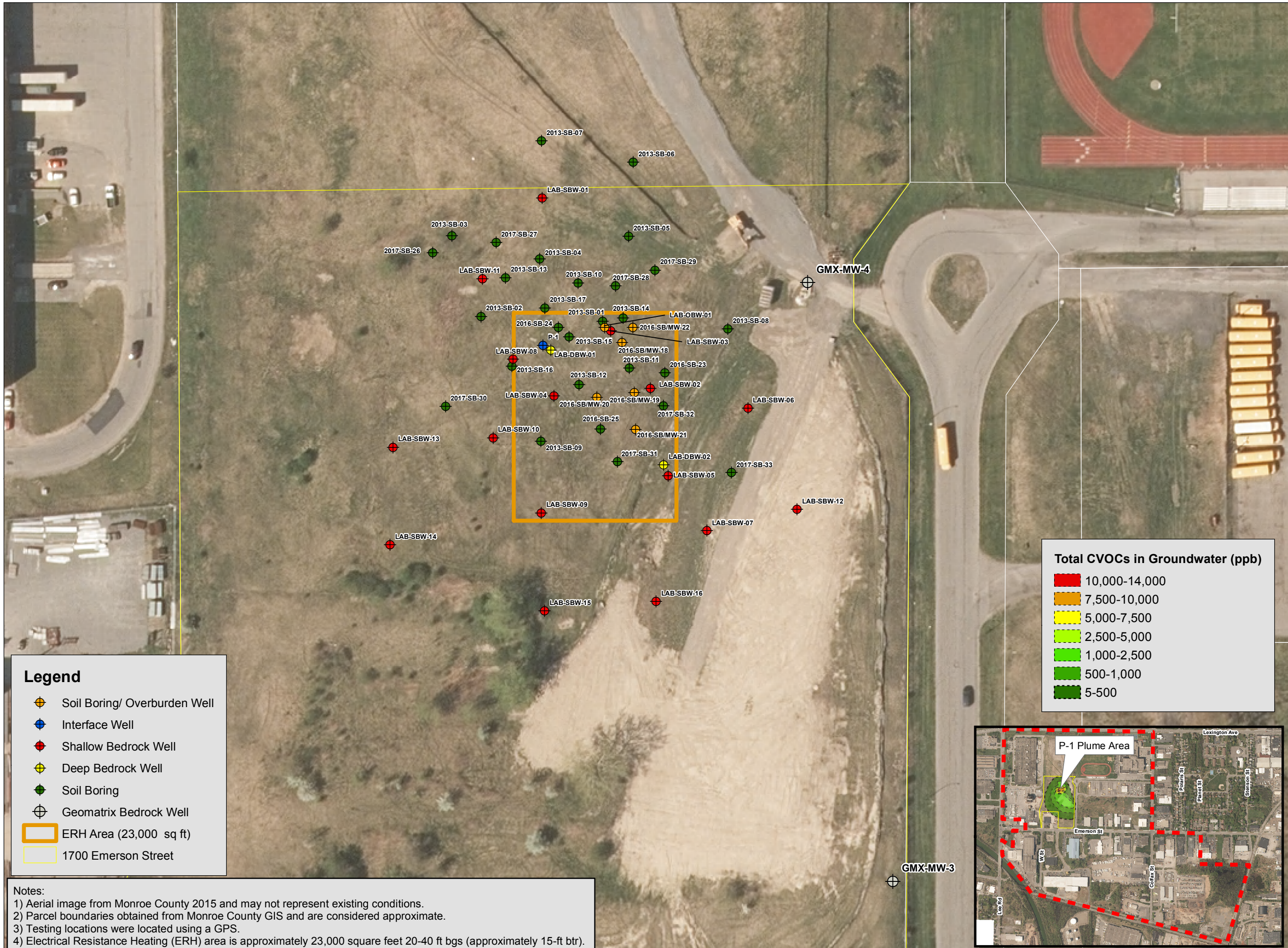
0 75
Feet

1 inch = 75 feet

Intended to print on 11x17

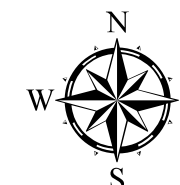
[210173]

[FIGURE 8]



**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023
CITY OF ROCHESTER**

**ALTERNATIVE C
GROUNDWATER EXTRACTION
& EX-SITU
TREATMENT SYSTEM**



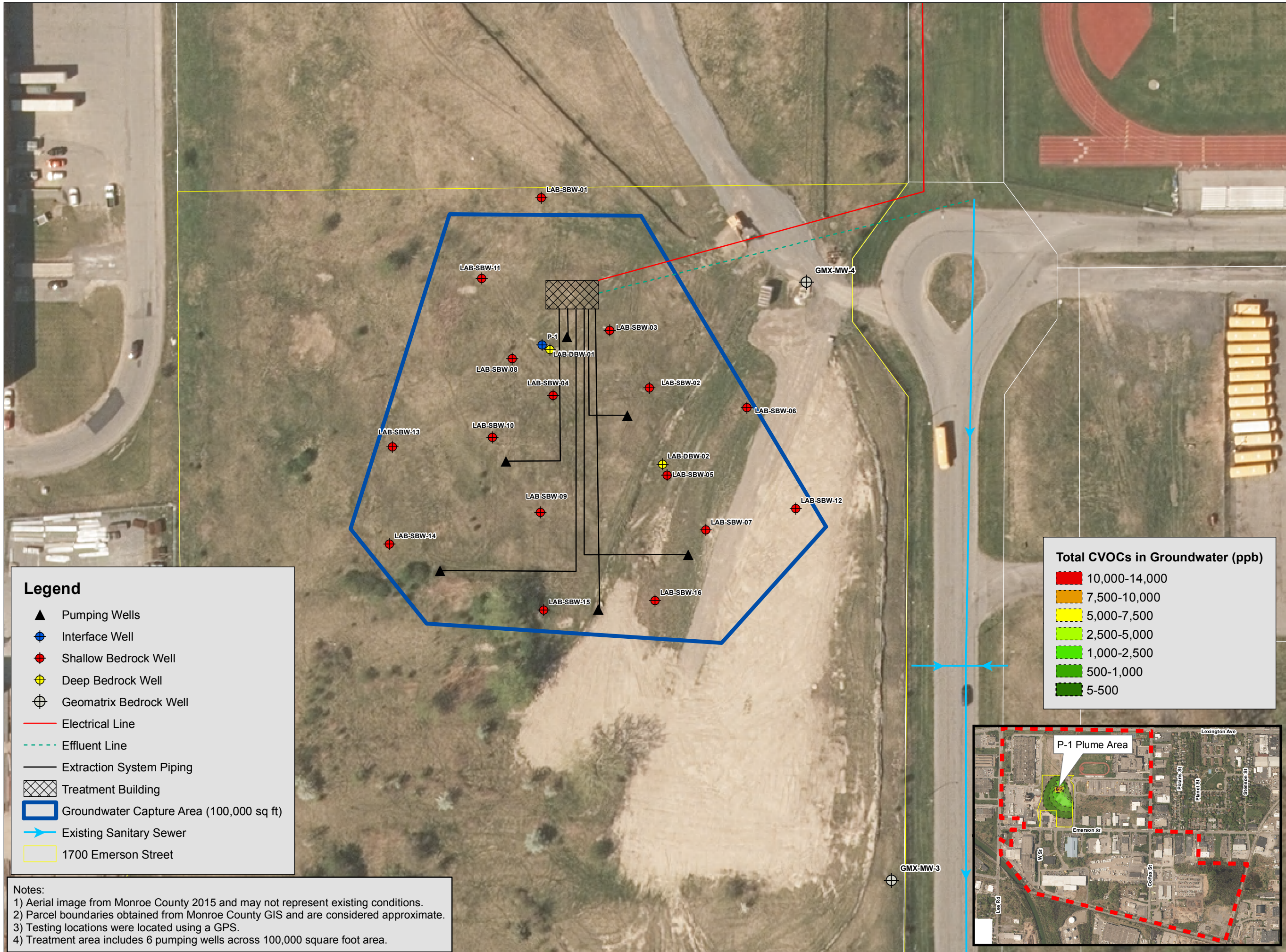
0 75
Feet

1 inch = 75 feet

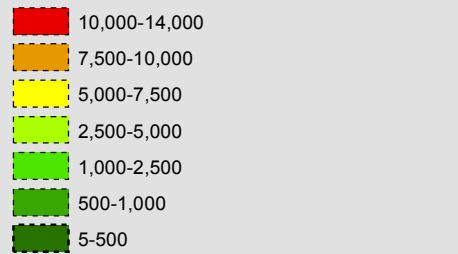
Intended to print on 11x17

[210173]

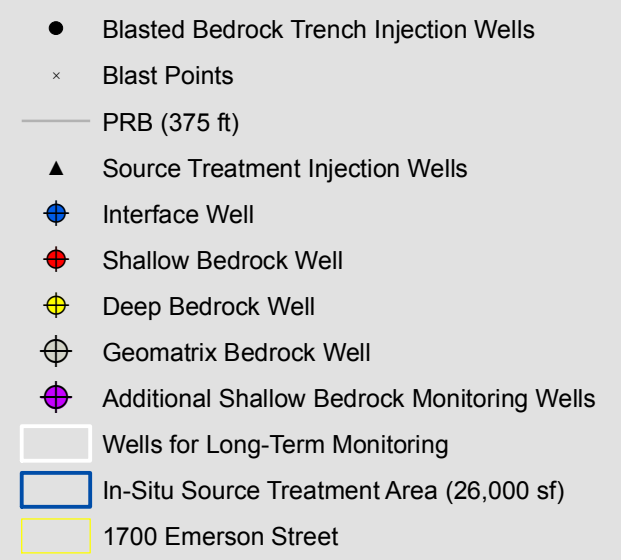
[FIGURE 9]



Total CVOCs in Groundwater (ppb)



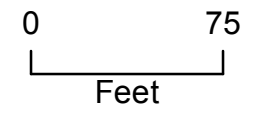
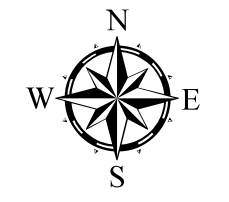
Legend



**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023**

CITY OF ROCHESTER

**ALTERNATIVE D
IN-SITU SOURCE
TREATMENT
WITH PERMEABLE
REACTIVE BARRIER
(BLAST ENHANCED
BEDROCK TRENCH)**



1 inch = 75 feet

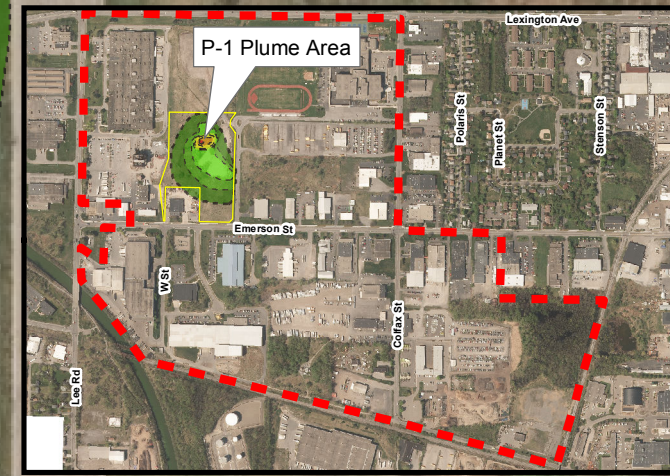
Intended to print on 11x17

[210173]

[FIGURE 10A]

Notes:

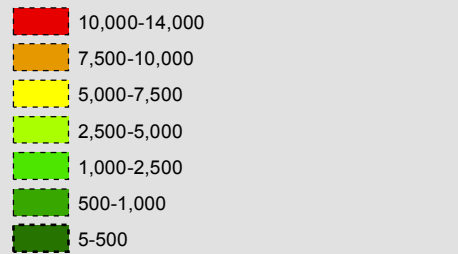
- 1) Aerial image from Monroe County 2015 and may not represent existing conditions.
- 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
- 3) Contours developed using Surfer verion 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed from 2014-2017 and does not represent one single sampling event. The A Zone is sealed out in bedrock monitoring wells. Data collected from the A Zone during well installation is considered screening level data and is not included in this model.
- 5) Concentrations in micrograms per liter (ug/L) or parts per billion (ppb).
- 6) Testing locations were located using a GPS.
- 7) Treatment area includes 118 injection wells across 26,000 square foot area.
- 8) PRB is 375 ft in length perpendicular to groundwater flow with 8 injection wells and 75 blast points.



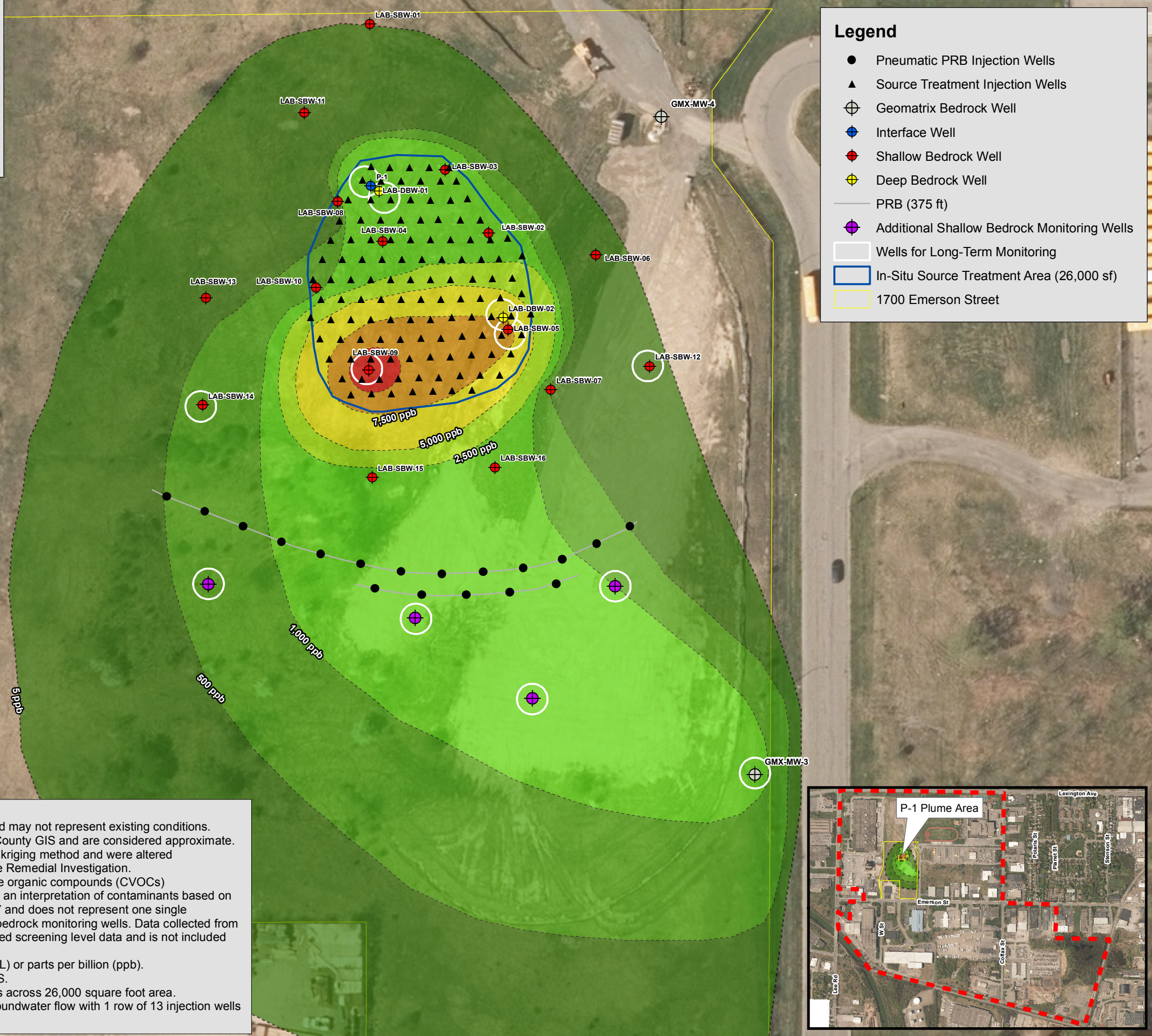
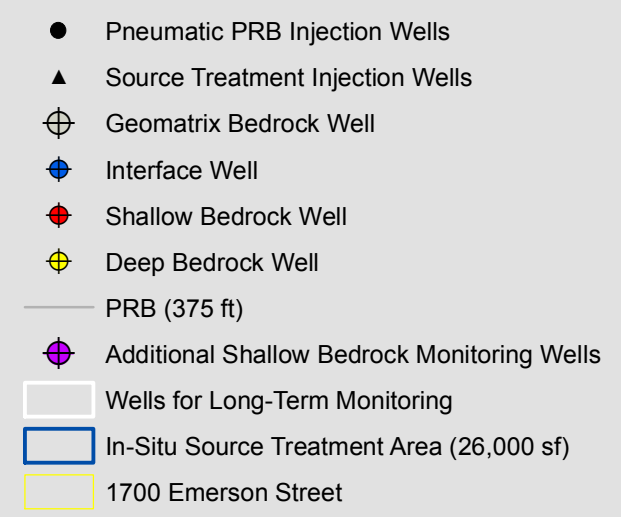
Path: \\Projects2\Projects\210173 FES\Drawings\FSD\Figure 10A - Source Treatment with PRB.mxd

Path: \Projects\210173 FEESL\Drawings\FES\Figure 10B - Source Treatment with PRB pneumatic.mxd

Total CVOCs in Groundwater (ppb)



Legend



Notes:

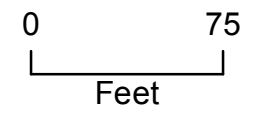
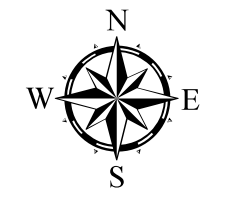
- 1) Aerial image from Monroe County 2015 and may not represent existing conditions.
- 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
- 3) Contours developed using Surfer verion 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed from 2014-2017 and does not represent one single sampling event. The A Zone is sealed out in bedrock monitoring wells. Data collected from the A Zone during well installation is considered screening level data and is not included in this model.
- 5) Concentrations in micrograms per liter (ug/L) or parts per billion (ppb).
- 6) Testing locations were located using a GPS.
- 7) Treatment area includes 118 injection wells across 26,000 square foot area.
- 8) PRB is 375 ft in length perpendicular to groundwater flow with 1 row of 13 injection wells and 1 row of 15 injection wells.



**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON
STREET LANDFILL
NYSDEC SITE #828023**

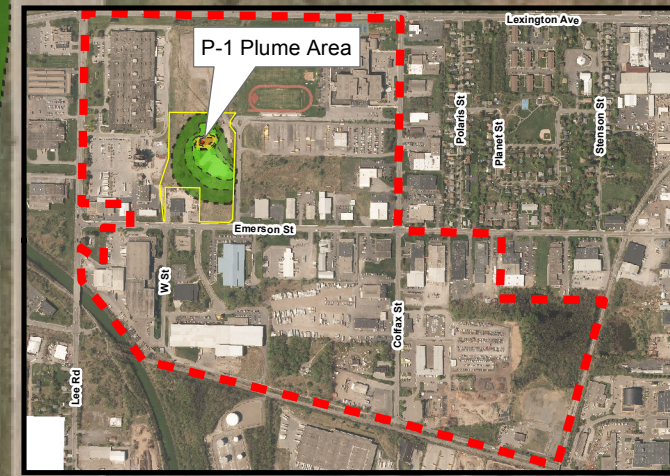
CITY OF ROCHESTER

**ALTERNATIVE D
IN-SITU SOURCE
TREATMENT
WITH PERMEABLE
REACTIVE BARRIER
(PNEUMATIC)**



1 inch = 75 feet

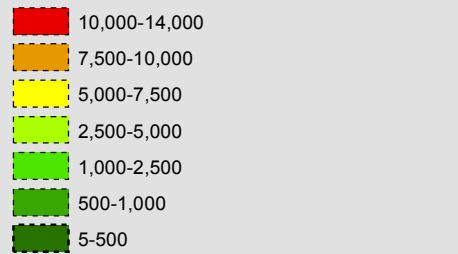
Intended to print on 11x17



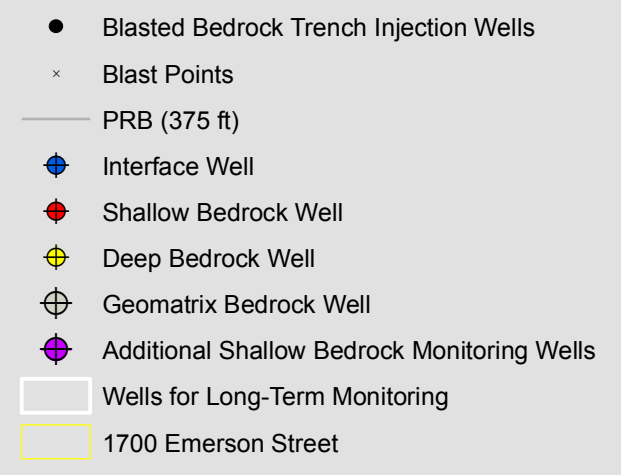
[210173]

[FIGURE 10B]

Total CVOCs in Groundwater (ppb)

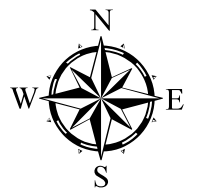


Legend



**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023
CITY OF ROCHESTER**

**ALTERNATIVE E
PERMEABLE
REACTIVE BARRIER
(BLAST ENHANCED
BEDROCK TRENCH)**



1 inch = 75 feet

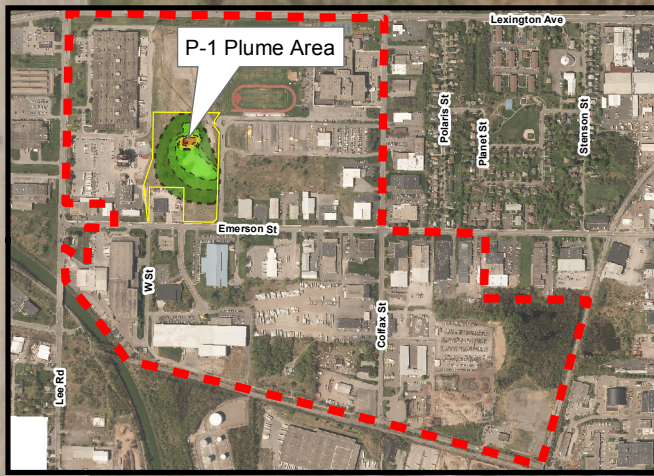
Intended to print on 11x17

[210173]

[FIGURE 11A]

Notes:

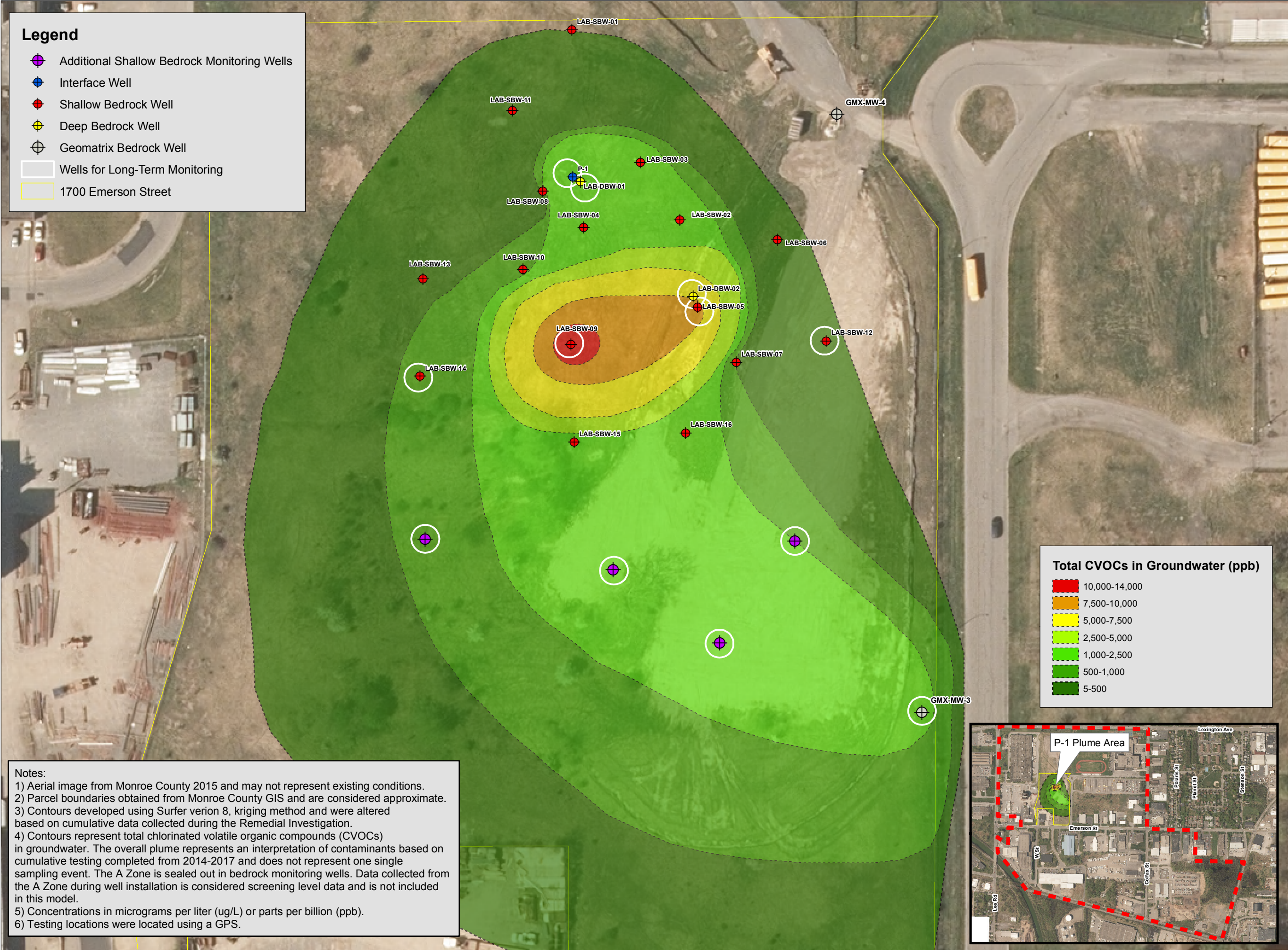
- 1) Aerial image from Monroe County 2015 and may not represent existing conditions.
- 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
- 3) Contours developed using Surfer version 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed from 2014-2017 and does not represent one single sampling event. The A Zone is sealed out in bedrock monitoring wells. Data collected from the A Zone during well installation is considered screening level data and is not included in this model.
- 5) Concentrations in micrograms per liter (ug/L) or parts per billion (ppb).
- 6) Testing locations were located using a GPS.
- 7) PRB is 375 ft in length perpendicular to groundwater flow with 8 injection wells and 75 blast points.










Path: \\Projects2\Projects\210173 FES\Drawings\Figure 11A - PRB Trench.mxd

Legend

-  Additional Shallow Bedrock Monitoring Wells
-  Interface Well
-  Shallow Bedrock Well
-  Deep Bedrock Well
-  Geomatrix Bedrock Well
-  Wells for Long-Term Monitoring
-  1700 Emerson Street

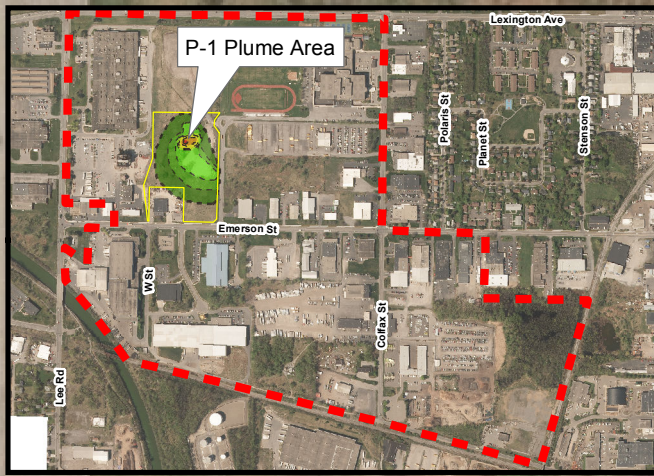


Total CVOCs in Groundwater (ppb)

	10,000-14,000
	7,500-10,000
	5,000-7,500
	2,500-5,000
	1,000-2,500
	500-1,000
	5-500

Notes:

- 1) Aerial image from Monroe County 2015 and may not represent existing conditions.
- 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
- 3) Contours developed using Surfer version 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed from 2014-2017 and does not represent one single sampling event. The A Zone is sealed out in bedrock monitoring wells. Data collected from the A Zone during well installation is considered screening level data and is not included in this model.
- 5) Concentrations in micrograms per liter (ug/L) or parts per billion (ppb).
- 6) Testing locations were located using a GPS.



**FEASIBILITY STUDY
P-1 PLUME AREA
FORMER EMERSON STREET
LANDFILL
NYSDEC SITE #828023
CITY OF ROCHESTER**

**ALTERNATIVE F
MONITORED
NATURAL ATTENUATION**



1 inch = 75 feet
Intended to print on 11x17

[210173]

[FIGURE 12]



TABLES

Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table A - Excavation

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 10,000	LS	1	\$ 10,000	
Project Manager	\$ 135	hr	232	\$ 31,320	
Project Engineer	\$ 100	hr	464	\$ 46,400	
Technician	\$ 75	hr	2,320	\$ 174,000	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor					
Mobilization/ Demobilization	\$ 10,000	LS	1	\$ 10,000	
Excavation	\$ 5,000	day	200	\$ 1,000,000	
Transportation and Disposal (non-hazardous)	\$ 40	ton	150,000	\$ 6,000,000	
Transportation and Disposal (hazardous)	\$ 250	ton	35,000	\$ 8,750,000	
Dewatering, Water Treatment and Disposal	\$ 200,000	LS	1	\$ 200,000	
Demarcation Layer	\$ 100,000	LS	1	\$ 100,000	
Backfill	\$ 15	ton	185,000	\$ 2,775,000	
Shoring	\$ 100,000	LS	1	\$ 100,000	
Dust/ Odor Control	\$ 50,000	LS	1	\$ 50,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Backfill Amendment	\$ 2.50	lb	50,000	\$ 125,000	
Installation of 6 new bedrock wells	\$ 10,000	each	6	\$ 60,000	
Decommissioning Wells within Excavation	\$ 2,000	each	23	\$ 46,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Laboratory					
Imported Material Testing	\$ 120	sample	100	\$ 12,000	
Waste Characterization (TCLP)	\$ 550	sample	50	\$ 27,500	
Confirmatory Soil (VOCs)	\$ 75	sample	150	\$ 11,250	
Confirmatory Bedrock (VOCs)	\$ 200	sample	50	\$ 10,000	
Confirmatory Soil (SVOCs)	\$ 165	sample	150	\$ 24,750	
Confirmatory Soil (Metals + cyanide)	\$ 150	sample	50	\$ 7,500	
Confirmatory Soil (PCBs)	\$ 70	sample	50	\$ 3,500	
Confirmatory Soil (Pesticides)	\$ 70	sample	50	\$ 3,500	
DUSR	\$ 25	sample	450	\$ 11,250	
EQUIS Submittals	\$ 80	hr	113	\$ 9,000	
Equipment					
Dust Monitors	\$ 1,620	month	12	\$ 19,440	
PIDs	\$ 2,100	month	12	\$ 25,200	
Landfill Gas Meter	\$ 1,100	month	12	\$ 13,200	
Contingency (20%)				\$ 4,080,482	
Total				\$ 24,482,892	
Operation and Maintenance					Present Value
Years 1-2					
<i>Groundwater Monitoring Years 1-2-Quarterly</i>					
Equipment	\$ 500	event	4	\$ 2,000	
Professional Services	\$ 2,500	event	4	\$ 10,000	
Laboratory Fees	\$ 1,200	event	4	\$ 4,800	
Data Validation	\$ 750	event	4	\$ 3,000	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 1-2</i>	\$ 22,800	\$ 21,491
Years 3-5					
<i>Groundwater Monitoring Years 3-5-Semi-Annual</i>					
Equipment	\$ 500	event	2	\$ 1,000	
Professional Services	\$ 2,500	event	2	\$ 5,000	
Laboratory Fees	\$ 1,200	event	2	\$ 2,400	
Data Validation	\$ 750	event	2	\$ 1,500	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 3-5</i>	\$ 12,900	\$ 11,805
Years 6-30					
<i>Groundwater Monitoring Years 6-30-Annual</i>					
Equipment	\$ 500	event	1	\$ 500	
Professional Services	\$ 2,500	event	1	\$ 2,500	
Laboratory Fees	\$ 1,200	event	1	\$ 1,200	
Data Validation	\$ 750	event	1	\$ 750	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 6-30</i>	\$ 7,950	\$ 3,797
30 Year O&M Cost					\$ 173,322
Contingency (20%)					\$ 34,664
Present Value O&M (30 Years)					\$ 207,987
Estimated Remedial Cost 30 Years:				\$ 24,690,879	

Includes excavation and disposal of 100,000 square foot area to 30 ft bgs (~180,000 tons)

Top 15 feet of soil/ fill can be reused in backfill

Assumes 2 ft above top of rock and 3 feet of bedrock are hazardous. Remaining is non-hazardous.

Assumes up to 8 months of excavations

Assumes confirmatory sampling in accordance with NYSDEC DER-10. Metals, pesticides, and PCBs to be sampled at a reduced frequency

Dewatering will include temporary storage in frac tanks and carbon treatment prior to discharge to the sanitary sewer

Excavation to extend up to 5 feet into bedrock

Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years

Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs via passive diffusion bags

Present value assumes 3% annual discount rate

Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.

Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.



Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table B - Electrical Resistance Heating

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 10,000	LS	1	\$ 10,000	
Project Manager	\$ 135	hr	200	\$ 27,000	
Project Engineer	\$ 100	hr	400	\$ 40,000	
Technician	\$ 75	hr	2,000	\$ 150,000	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Equipment					
Dust Monitors	\$ 1,620	month	6	\$ 9,720	
PIDs	\$ 2,100	month	6	\$ 12,600	
Landfill Gas Meter	\$ 1,100	month	6	\$ 6,600	
Subcontractor					
ERH Installation, Operation, Decommission	\$ 3,600,000	LS	1	\$ 3,600,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Interim Soil and Bedrock Sampling					
Driller	\$ 20,000	LS	1	\$ 20,000	
Confirmatory Soil (VOCs)	\$ 75	sample	10	\$ 750	
Confirmatory Bedrock (VOCs)	\$ 200	sample	10	\$ 2,000	
DUSR	\$ 25	sample	10	\$ 250	
EQUIS Submittals	\$ 80	hr	3	\$ 200	
Interim Groundwater Sampling					
Groundwater Sampling	\$ 2,250	event	3	\$ 6,750	
Equipment	\$ 1,000	event	3	\$ 3,000	
Laboratory Analysis	\$ 900	event	3	\$ 2,700	
DUSRs and EQUIS Submittals	\$ 50	sample	24	\$ 1,200	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 5,000	LS	1	\$ 5,000	
Containerize, transport and dispose of water	\$ 8,000	LS	1	\$ 8,000	
Contingency (20%)				\$ 927,874	
Total				\$ 5,580,244	
Operation and Maintenance					Present Value
Years 1-2					
<i>Groundwater Monitoring Years 1-2-Quarterly</i>					
Equipment	\$ 500	event	4	\$ 2,000	
Professional Services	\$ 2,500	event	4	\$ 10,000	
Laboratory Fees	\$ 1,200	event	4	\$ 4,800	
Data Validation	\$ 750	event	4	\$ 3,000	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 1-2</i>	\$ 22,800	\$ 21,491
Years 3-5					
<i>Groundwater Monitoring Years 3-5-Semi-Annual</i>					
Equipment	\$ 500	event	2	\$ 1,000	
Professional Services	\$ 2,500	event	2	\$ 5,000	
Laboratory Fees	\$ 1,200	event	2	\$ 2,400	
Data Validation	\$ 750	event	2	\$ 1,500	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 3-5</i>	\$ 12,900	\$ 11,805
Years 6-30					
<i>Groundwater Monitoring Years 6-30-Annual</i>					
Equipment	\$ 500	event	1	\$ 500	
Professional Services	\$ 2,500	event	1	\$ 2,500	
Laboratory Fees	\$ 1,200	event	1	\$ 1,200	
Data Validation	\$ 750	event	1	\$ 750	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 6-30</i>	\$ 7,950	\$ 3,797
30 Year O&M Cost					\$ 173,322
Contingency (20%)					\$ 34,664
Present Value O&M (30 Years)					\$ 207,987
Estimated Remedial Cost 30 Years:				\$ 5,788,231	

Notes:

Assumes 23,000 square foot treatment area to 10 feet below top of rock (heating from 5 ft above rock to 15 ft below rock)

Assumes required utilities will be brought onto the Site temporarily

Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years

Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs via passive diffusion bags

Present value assumes 3% annual discount rate

Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.

Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.



Former Emerson Street Landfill

P-1 Plume Feasibility Study

NYSDEC Site 828023

Table C - Groundwater Extraction and Ex-Situ Treatment System

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 12,000	LS	1	\$ 12,000	
Project Manager	\$ 135	hr	200	\$ 27,000	
Project Engineer	\$ 100	hr	400	\$ 40,000	
Technician	\$ 75	hr	2,000	\$ 150,000	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor					
Mobilization/ Demobilization	\$ 25,000	LS	1	\$ 25,000	
Extraction Well Installation	\$ 10,000	well	6	\$ 60,000	
Trenching, Piping	\$ 200,000	LS	1	\$ 200,000	
System Building and Utility Connections	\$ 650,000	LS	1	\$ 650,000	
System Components (pumps, carbon, tanks)	\$ 250,000	LS	1	\$ 250,000	
Sewer Connection and Permitting	\$ 50,000	LS	1	\$ 50,000	
Electrical Connection	\$ 75,000	LS	1	\$ 75,000	
Water Connection	\$ 50,000	LS	1	\$ 50,000	
System Startup	\$ 50,000	LS	1	\$ 50,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Equipment					
Dust Monitors	\$ 1,620	month	9	\$ 14,580	
PIDs	\$ 2,100	month	9	\$ 18,900	
Landfill Gas Meter	\$ 1,100	month	9	\$ 9,900	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 5,000	LS	1	\$ 5,000	
Containerize, transport and dispose of water	\$ 8,000	LS	1	\$ 8,000	
Contingency (20%)				\$ 488,396	
Total				\$ 2,930,376	
Operation and Maintenance					Present Value
Year 1-5					
<i>Groundwater Monitoring Years 1-5- Quarterly</i>					
Equipment	\$ 500	event	4	\$2,000	
Professional Services	\$ 2,500	event	4	\$10,000	
Laboratory Fees	\$ 1,200	event	4	\$4,800	
Data Validation	\$ 750	event	4	\$3,000	
Periodic System Checks/ Maintenance	\$ 25,000	year	1	\$25,000	
Water Discharge Sampling	\$ 1,950	month	12	\$23,400	
Electrical Costs	\$ 20,000	year	1	\$20,000	
Misc. Equipment Repairs	\$ 5,000	year	1	\$5,000	
Annual Inspections and Annual Reporting	\$ 2,500	year	1	\$2,500	
			<i>Annual Cost Years 1-5</i>	\$95,700	\$82,552
Years 6-30					
<i>Groundwater Monitoring Years 6-30 Semi-Annual</i>					
Equipment	\$ 500	event	2	\$1,000	
Professional Services	\$ 2,500	event	2	\$5,000	
Laboratory Fees	\$ 1,200	event	2	\$2,400	
Data Validation	\$ 750	event	2	\$1,500	
Periodic System Checks/ Maintenance	\$ 25,000	year	1	\$25,000	
Electrical Costs	\$ 20,000	year	1	\$20,000	
Misc. Equipment Repairs	\$ 5,000	year	1	\$5,000	
Annual Inspections and Annual Reporting	\$ 2,500	year	4	\$10,000	
			<i>Annual Cost Years 6-30</i>	\$69,900	\$33,385
30 Year O&M Cost					\$1,247,374
Contingency (20%)					\$249,475
Present Value O&M (30 Years)					\$1,496,849
Estimated Remedial Cost 30 Years:				\$4,427,225	

Notes:

Assumes required utilities will be brought onto the Site and a treatment building would be constructed

Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years

Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs via passive diffusion bags

Present value assumes 3% annual discount rate

Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.

Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.

Includes monthly effluent sampling



Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table D1 - In-Situ Source Treatment and PRB (Blasted Bedrock Trench)

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 12,000	LS	1	\$ 12,000	
Project Manager	\$ 135	hr	223	\$ 30,038	
Project Engineer	\$ 100	hr	445	\$ 44,500	
Technician	\$ 75	hr	2,225	\$ 166,875	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor (Source Treatment)					
Mobilization/ Demobilization	\$ 8,000	LS	1	\$ 8,000	
Injection Well Installation	\$ 5,000	each	118	\$ 590,000	
Treatment Chemical	\$ 0.50	lbs	350,000	\$ 175,000	
DHC Inoculum	\$ 4.00	liter	500	\$ 2,000	
Shipping	\$ 35,000	LS	1	\$ 35,000	
Chemical Injection Implementation (hydraulic)	\$ 15,000	point	118	\$ 1,770,000	
Subcontractor (PRB)					
Mobilization/ Demobilization	\$ 10,000	LS	1	\$ 10,000	
Bedrock Blasting	\$ 750	point	75	\$ 56,250	
Injection Well Installation	\$ 5,000	each	8	\$ 40,000	
Treatment Chemical	\$ 0.50	lbs	350,000	\$ 175,000	
Shipping	\$ 35,000	LS	1	\$ 35,000	
Chemical Injection Implementation (hydraulic)	\$ 12,000	point	6	\$ 72,000	
Monitoring Well Installation	\$ 5,000	each	4	\$ 20,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Equipment					
Dust Monitors	\$ 1,620	month	12	\$ 19,440	
PIDs	\$ 2,100	month	12	\$ 25,200	
Landfill Gas Meter	\$ 1,100	month	12	\$ 13,200	
Well Development Equipment	\$ 500	day	5	\$ 2,500	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 6,000	LS	1	\$ 6,000	
Containerize, transport and dispose of water	\$ 10,000	LS	1	\$ 10,000	
Contingency (20%)				\$ 812,921	
Total				\$ 4,877,523	
Operation and Maintenance					Present Value
Years 1-2					
<i>Groundwater Monitoring Years 1-2 Quarterly</i>					
Equipment	\$ 1,000	event	4	\$ 4,000	
Professional Services	\$ 4,000	event	4	\$ 16,000	
Laboratory Fees	\$ 2,725	event	4	\$ 10,900	
Data Validation	\$ 750	event	4	\$ 3,000	
Water Disposal	\$ 350	event	4	\$ 1,400	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 1-2</i>	\$ 38,300	\$ 36,101
Years 3-5					
<i>Groundwater Monitoring Years 3-5-Semi-Annual</i>					
Equipment	\$ 1,000	event	2	\$ 2,000	
Professional Services	\$ 4,000	event	2	\$ 8,000	
Laboratory Fees	\$ 2,725	event	2	\$ 5,450	
Data Validation	\$ 750	event	2	\$ 1,500	
Water Disposal	\$ 350	event	2	\$ 700	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 3-5</i>	\$ 20,650	\$ 18,898
Years 6-30					
<i>Groundwater Monitoring Years 6-30 Annual</i>					
Equipment	\$ 1,000	event	1	\$ 1,000	
Professional Services	\$ 4,000	event	1	\$ 4,000	
Laboratory Fees	\$ 2,725	event	1	\$ 2,725	
Data Validation	\$ 750	event	1	\$ 750	
Water Disposal	\$ 350	event	1	\$ 350	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Groundwater Monitoring Annual Cost Years 6-30</i>	\$ 11,825	\$ 5,648
Replenish PRB with ZVI (year 10, 20, 30)	\$ 450,000	each	1	\$ 450,000	
			<i>Additional Annual Cost Years 10, 20, 30</i>	\$ 450,000	\$ 411,814
30 Year O&M Cost					\$ 1,505,529
Contingency (20%)					\$ 301,106
Present Value O&M (30 Years)					\$ 1,806,635
Estimated Remedial Cost 30 Years:				\$ 6,684,158	

Notes:

- Source area treatment assumes 26,000 square feet area. Injections from 5-ft above top of rock to 5-ft below top of rock.
- Source treatment wells spaced 15-ft apart. Depths will vary based on location to treat up to the Upper B Zone.
- Blast points to be spaced 5-ft apart. PRB injection points to be spaced 50 feet apart within blasted bedrock trench.
- PRB assumes barrier 375-ft in length installed from 0-16-ft btr following bedrock blasting.
- Assumes ZVI dosing is 10% bedrock mass.
- Every 10 years the PRB will be replenished with ZVI via hydraulic injections. This will include injecting up to 350,000 lbs via existing injection wells.
- Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years
- Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs and MNA parameters
- Present value assumes 3% annual discount rate
- Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.
- Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.



Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table D2 - In-Situ Source Treatment and PRB (Pneumatic)

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 12,000	LS	1	\$ 12,000	
Project Manager	\$ 135	hr	234	\$ 31,590	
Project Engineer	\$ 100	hr	468	\$ 46,800	
Technician	\$ 75	hr	2,340	\$ 175,500	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor (Source Treatment)					
Mobilization/ Demobilization	\$ 8,000	LS	1	\$ 8,000	
Injection Well Installation	\$ 5,000	each	118	\$ 590,000	
Treatment Chemical	\$ 0.50	lbs	350,000	\$ 175,000	
DHC Inoculum	\$ 4.00	liter	500	\$ 2,000	
Shipping	\$ 35,000	LS	1	\$ 35,000	
Chemical Injection Implementation (hydraulic)	\$ 15,000	point	118	\$ 1,770,000	
Subcontractor (PRB)					
Mobilization/ Demobilization	\$ 10,000	LS	1	\$ 10,000	
Injection Well Installation	\$ 5,000	each	26	\$ 130,000	
Treatment Chemical	\$ 0.50	lbs	410,000	\$ 205,000	
Shipping	\$ 41,000	LS	1	\$ 41,000	
Chemical Injection Implementation (pneumatic)	\$ 17,000	point	26	\$ 442,000	
Monitoring Well Installation	\$ 5,000	each	4	\$ 20,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Equipment					
Dust Monitors	\$ 1,620	month	13	\$ 21,060	
PIDs	\$ 2,100	month	13	\$ 27,300	
Landfill Gas Meter	\$ 1,100	month	13	\$ 14,300	
Well Development Equipment	\$ 500	day	5	\$ 2,500	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 6,000	LS	1	\$ 6,000	
Containerize, transport and dispose of water	\$ 10,000	LS	1	\$ 10,000	
Contingency (20%)				\$ 904,330	
Total				\$ 5,425,980	
Operation and Maintenance					Present Value
Years 1-2					
<i>Groundwater Monitoring Years 1-2 Quarterly</i>					
Equipment	\$ 1,000	event	4	\$ 4,000	
Professional Services	\$ 4,000	event	4	\$ 16,000	
Laboratory Fees	\$ 2,725	event	4	\$ 10,900	
Data Validation	\$ 750	event	4	\$ 3,000	
Water Disposal	\$ 350	event	4	\$ 1,400	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 1-2</i>	\$ 38,300	\$ 36,101
Years 3-5					
<i>Groundwater Monitoring Years 3-5-Semi-Annual</i>					
Equipment	\$ 1,000	event	2	\$ 2,000	
Professional Services	\$ 4,000	event	2	\$ 8,000	
Laboratory Fees	\$ 2,725	event	2	\$ 5,450	
Data Validation	\$ 750	event	2	\$ 1,500	
Water Disposal	\$ 350	event	2	\$ 700	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 3-5</i>	\$ 20,650	\$ 18,898
Years 6-30					
<i>Groundwater Monitoring Years 6-30 Annual</i>					
Equipment	\$ 1,000	event	1	\$ 1,000	
Professional Services	\$ 4,000	event	1	\$ 4,000	
Laboratory Fees	\$ 2,725	event	1	\$ 2,725	
Data Validation	\$ 750	event	1	\$ 750	
Water Disposal	\$ 350	event	1	\$ 350	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Groundwater Monitoring Annual Cost Years 6-30</i>	\$ 11,825	\$ 5,648
Replenish PRB with ZVI (year 10, 20, 30)	\$ 800,000	each	1	\$ 800,000	
			<i>Additional Annual Cost Years 10, 20, 30</i>	\$ 800,000	\$ 732,113
30 Year O&M Cost					\$ 2,466,428
Contingency (20%)					\$ 493,286
Present Value O&M (30 Years)					\$ 2,959,714
Estimated Remedial Cost 30 Years:				\$ 8,385,694	

Notes:

Source area treatment assumes 26,000 square feet area. Injections from 5-ft above top of rock to 5-ft below top of rock.
Source treatment wells spaced 15-ft apart. Depths will vary based on location to treat up to the Upper B Zone.
PRB assumes barrier 375-ft in length installed from 0-16-ft btr via pneumatic injections. Two rows of pneumatic injection points will be installed
Assumes ZVI dosing is 1% bedrock mass.
Every 10 years the PRB will be replenished with ZVI via pneumatic injections. This will include injecting up to 410,000 lbs via existing injection wells.
Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years
Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs and MNA parameters
Present value assumes 3% annual discount rate
Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.
Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.



Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table E1 - PRB with MNA (Blasted Bedrock Trench)

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 8,000	LS	1	\$ 8,000	
Project Manager	\$ 135	hr	15	\$ 2,025	
Project Engineer	\$ 100	hr	30	\$ 3,000	
Technician	\$ 75	hr	1,150	\$ 86,250	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor					
Mobilization/ Demobilization	\$ 10,000	LS	1	\$ 10,000	
Bedrock Blasting	\$ 750	point	75	\$ 56,250	
Injection Well Installation	\$ 5,000	each	8	\$ 40,000	
Treatment Chemical	\$ 0.50	lbs	350,000	\$ 175,000	
Shipping	\$ 35,000	LS	1	\$ 35,000	
Chemical Injection Implementation (hydraulic)	\$ 12,000	point	6	\$ 72,000	
Monitoring Well Installation	\$ 5,000	each	4	\$ 20,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Equipment					
Dust Monitors	\$ 1,620	month	6	\$ 9,720	
PIDs	\$ 2,100	month	6	\$ 12,600	
Landfill Gas Meter	\$ 1,100	month	6	\$ 6,600	
Well Development Equipment	\$ 500	day	5	\$ 2,500	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 2,500	LS	1	\$ 2,500	
Containerize, transport and dispose of water	\$ 6,000	LS	1	\$ 6,000	
Contingency (20%)				\$ 258,809	
Total				\$ 1,552,854	
Operation and Maintenance					Present Value
Year 1					
<i>Groundwater Monitoring Year 1 Quarterly</i>					
Equipment	\$ 1,000	event	4	\$ 4,000	
Professional Services	\$ 4,000	event	4	\$ 16,000	
Laboratory Fees	\$ 2,725	event	4	\$ 10,900	
Data Validation	\$ 750	event	4	\$ 3,000	
Water Disposal	\$ 350	event	4	\$ 1,400	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Year 1</i>	\$ 38,300	\$ 36,101
Years 2-3					
<i>Groundwater Monitoring Years 2-3-Semi-Annual</i>					
Equipment	\$ 1,000	event	2	\$ 2,000	
Professional Services	\$ 4,000	event	2	\$ 8,000	
Laboratory Fees	\$ 2,725	event	2	\$ 5,450	
Data Validation	\$ 750	event	2	\$ 1,500	
Water Disposal	\$ 350	event	2	\$ 700	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 2-3</i>	\$ 20,650	\$ 18,898
Years 4-30					
<i>Groundwater Monitoring Years 4-30 Annual</i>					
Equipment	\$ 1,000	event	1	\$ 1,000	
Professional Services	\$ 4,000	event	1	\$ 4,000	
Laboratory Fees	\$ 2,725	event	1	\$ 2,725	
Data Validation	\$ 750	event	1	\$ 750	
Water Disposal	\$ 350	event	1	\$ 350	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Groundwater Monitoring Annual Cost Years 4-30</i>	\$ 11,825	\$ 5,648
Replenish PRB with ZVI (year 10, 20, 30)	\$ 450,000	each	1	\$ 450,000	
			<i>Additional Annual Cost Years 10, 20, 30</i>	\$ 450,000	\$ 411,814
30 Year O&M Cost					\$ 1,461,825.53
Contingency (20%)					\$ 292,365
Present Value O&M (30 Years)					\$ 1,754,191
Estimated Remedial Cost 30 Years:				\$ 3,307,045	

Notes:

Blast points to be spaced 5-ft apart. Injection points to be spaced 50 feet apart within blasted bedrock trench.
PRB assumes barrier 375-ft in length installed from 0-16-ft btr following bedrock blasting.
Assumes ZVI dosing is 10% bedrock mass.
Every 10 years the PRB will be replenished with ZVI via hydraulic injections. This will include injecting up to 350,000 lbs via existing injection wells.
Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years
Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs and MNA parameters
Present value assumes 3% annual discount rate
Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.
Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.



Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table E2 - PRB with MNA (Pneumatic)

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 8,000	LS	1	\$ 8,000	
Project Manager	\$ 135	hr	15	\$ 2,025	
Project Engineer	\$ 100	hr	30	\$ 3,000	
Technician	\$ 75	hr	1,120	\$ 84,000	
Final Engineering Report	\$ 10,000	LS	1	\$ 10,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor					
Mobilization/ Demobilization	\$ 10,000	LS	1	\$ 10,000	
Injection Well Installation	\$ 5,000	each	18	\$ 90,000	
Treatment Chemical	\$ 0.50	lbs	285,000	\$ 142,500	
Shipping	\$ 28,500	LS	1	\$ 28,500	
Chemical Injection Implementation (pneumatic)	\$ 17,000	point	18	\$ 306,000	
Monitoring Well Installation	\$ 5,000	each	4	\$ 20,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Equipment					
Dust Monitors	\$ 1,620	month	6	\$ 9,720	
PIDs	\$ 2,100	month	6	\$ 12,600	
Landfill Gas Meter	\$ 1,100	month	6	\$ 6,600	
Well Development Equipment	\$ 500	day	5	\$ 2,500	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 2,500	LS	1	\$ 2,500	
Containerize, transport and dispose of water	\$ 6,000	LS	1	\$ 6,000	
Contingency (20%)				\$ 296,109	
Total				\$ 1,776,654	
Operation and Maintenance					Present Value
Year 1					
<i>Groundwater Monitoring Year 1 Quarterly</i>					
Equipment	\$ 1,000	event	4	\$ 4,000	
Professional Services	\$ 4,000	event	4	\$ 16,000	
Laboratory Fees	\$ 2,725	event	4	\$ 10,900	
Data Validation	\$ 750	event	4	\$ 3,000	
Water Disposal	\$ 350	event	4	\$ 1,400	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Year 1</i>	\$ 38,300	\$ 36,101
Years 2-3					
<i>Groundwater Monitoring Years 2-3-Semi-Annual</i>					
Equipment	\$ 1,000	event	2	\$ 2,000	
Professional Services	\$ 4,000	event	2	\$ 8,000	
Laboratory Fees	\$ 2,725	event	2	\$ 5,450	
Data Validation	\$ 750	event	2	\$ 1,500	
Water Disposal	\$ 350	event	2	\$ 700	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Annual Cost Years 2-3</i>	\$ 20,650	\$ 18,898
Years 4-30					
<i>Groundwater Monitoring Years 4-30 Annual</i>					
Equipment	\$ 1,000	event	1	\$ 1,000	
Professional Services	\$ 4,000	event	1	\$ 4,000	
Laboratory Fees	\$ 2,725	event	1	\$ 2,725	
Data Validation	\$ 750	event	1	\$ 750	
Water Disposal	\$ 350	event	1	\$ 350	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
			<i>Groundwater Monitoring Annual Cost Years 4-30</i>	\$ 11,825	\$ 5,648
Replenish PRB with ZVI (year 10, 20, 30)	\$ 500,000	each	1	\$ 500,000	
			<i>Additional Annual Cost Years 10, 20, 30</i>	\$ 500,000	\$ 457,571
30 Year O&M Cost					\$ 1,599,096.78
Contingency (20%)					\$ 319,819
Present Value O&M (30 Years)					\$ 1,918,916
Estimated Remedial Cost 30 Years:				\$ 3,695,570	

Notes:

PRB assumes barrier 375-ft in length installed from 0-16-ft btr via pneumatic injections. Two rows of pneumatic injection points will be installed; 1 row of 13, 1 row of 5
Assumes ZVI dosing is 1% bedrock mass.

Every 10 years the PRB will be replenished with ZVI via pneumatic injections. This will include injecting up to 285,000 lbs via existing injection wells.

Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years

Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs and MNA parameters

Present value assumes 3% annual discount rate

Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.

Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.



Former Emerson Street Landfill
P-1 Plume Feasibility Study
NYSDEC Site 828023
Table F - MNA

	Unit Cost	Units	Quantity	Subtotal	
Professional Services					
Remedial Action Work Plan	\$ 5,000	LS	1	\$ 5,000	
Project Manager	\$ 135	hr	15	\$ 2,025	
Project Engineer	\$ 100	hr	30	\$ 3,000	
Technician	\$ 75	hr	980	\$ 73,500	
Final Engineering Report	\$ 5,000	LS	1	\$ 5,000	
Monthly Progress Reports	\$ 1,000	ea	12	\$ 12,000	
Subcontractor					
Mobilization/ Demobilization	\$ 10,000	LS	1	\$ 10,000	
Monitoring Well Installation	\$ 5,000	each	4	\$ 20,000	
Fencing	\$ 25,000	LS	1	\$ 25,000	
Cover System/ Regrading					
Mobilization/ Demobilization/ Coordination	\$ 15,000	LS	1	\$ 15,000	
Equipment and Operators	\$ 4,500	day	90	\$ 405,000	
Demarcation Layer	\$ 1,300	acre	12	\$ 15,600	
Site Trucks	\$ 130	hr	1,800	\$ 234,000	
Modify Stickup Wells	\$ 30,000	LS	1	\$ 30,000	
Equipment					
Dust Monitors	\$ 620	week	4	\$ 2,480	
PIDs	\$ 690	week	4	\$ 2,760	
Landfill Gas Meter	\$ 450	week	4	\$ 1,800	
Well Development Equipment	\$ 500	day	2	\$ 1,000	
Waste Disposal					
Containerize, transport and dispose of soil	\$ 1,000	LS	1	\$ 1,000	
Containerize, transport and dispose of water	\$ 2,000	LS	1	\$ 2,000	
Contingency (20%)				\$ 173,233	
Total				\$ 1,039,398	
Operation and Maintenance					Present Value
Years 1-5					
<i>Groundwater Monitoring Years 1-5 Quarterly</i>					
Equipment	\$ 1,000	event	4	\$ 4,000	
Professional Services	\$ 4,000	event	4	\$ 16,000	
Laboratory Fees	\$ 2,725	event	4	\$ 10,900	
Data Validation	\$ 750	event	4	\$ 3,000	
Water Disposal	\$ 350	event	4	\$ 1,400	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
				<i>Annual Cost Years 1-5</i>	\$38,300
					\$33,038
Years 6-10					
<i>Groundwater Monitoring Years 6-10-Semi-Annual</i>					
Equipment	\$ 1,000	event	2	\$ 2,000	
Professional Services	\$ 4,000	event	2	\$ 8,000	
Laboratory Fees	\$ 2,725	event	2	\$ 5,450	
Data Validation	\$ 750	event	2	\$ 1,500	
Water Disposal	\$ 350	event	2	\$ 700	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
				<i>Annual Cost Years 6-10</i>	\$20,650
					\$17,813
Years 11-30					
<i>Groundwater Monitoring Years 11-30 Annual</i>					
Equipment	\$ 1,000	event	1	\$ 1,000	
Professional Services	\$ 4,000	event	1	\$ 4,000	
Laboratory Fees	\$ 2,725	event	1	\$ 2,725	
Data Validation	\$ 750	event	1	\$ 750	
Water Disposal	\$ 350	event	1	\$ 350	
Annual Inspections and Annual Reporting	\$ 3,000	year	1	\$ 3,000	
				<i>Groundwater Monitoring Annual Cost Years 11-30</i>	\$11,825
					\$6,547
30 Year O&M Cost					\$385,198
Contingency (20%)					\$77,040
Present Value O&M (30 Years)					\$462,238
				Estimated Remedial Cost 30 Years:	\$1,501,636

Notes:

Post-remedial monitoring to include groundwater monitoring quarterly for 2 years, semi-annually for 3 years, and annually for 25 years

Post-remedial monitoring to include sampling up to 12 wells for TCL VOCs and MNA parameters

Present value assumes 3% annual discount rate

Cover system assumes regrading Site, and covering with 20,000 CY existing stockpiled material plus transporting 10,000 CY additional from City facility on Colfax Street. Costs include trucking 10,000 CY to the Site from Colfax Street.

Existing monitoring well casings will be altered to be raised/ lowered as needed to accommodate final grade.





APPENDIX 1

Pilot Test Monitoring Report



Pilot Test Monitoring Report

Former Emerson Street Landfill
NYSDEC Site #828023

Location:

1700 Emerson Street
Former Emerson Street Landfill
Rochester, New York 14606

Prepared for:

City of Rochester
Division of Environmental Quality
Room 300-B
Rochester, New York 14614

LaBella Project No. 210173

April 2019

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CERTIFICATION

"I DANIEL NOLL certify that I am currently a NYS registered professional engineer and that this Pilot Test Monitoring Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan."



081996

NYS Professional Engineer #

4/15/19

Date

D. P. Noll

Signature



1.0 Introduction

This report summarizes results of a pilot test that was conducted to evaluate a potential remedial technology to be implemented for remediation of a chlorinated volatile organic compound (CVOC) groundwater plume (the P-1 Plume) at the Former Emerson Street Landfill (FESL) located at 1700 Emerson Street (formerly 1655 Lexington Avenue), Rochester, New York (the Site). The FESL project location is shown on Figure 1.

Environmental investigations have been completed at the Site since the 1980s, including most recently a Remedial Investigation (RI) for the P-1 Plume conducted in accordance with the *Remedial Investigation Work Plan: P-1 Plume Area* dated November 2012 and five (5) subsequent addenda completed by LaBella. The purpose of the RI was to define the nature and extent (areal and vertical extent) of VOCs, specifically CVOCs in soil, fill, groundwater and the bedrock matrix associated with the P-1 Plume. Previous investigations have identified CVOCs including trichloroethene (TCE), tetrachloroethylene (PCE) and breakdown compounds in groundwater at concentrations up to 69 parts per million (ppm) total CVOCs. The RI has defined the extent of the P-1 Plume as shown on Figure 3.

The RI was completed in 2017 and a Pilot Test Work Plan dated August 2017 was developed which evaluated various potential remedial technologies to remediate CVOCs associated with the P-1 Plume. The Pilot Test Work Plan identified in-situ chemical reduction (ISCR) with monitored natural attenuation (MNA) as a potential viable remedial technology for the P-1 Plume. The Pilot Test Work Plan proposed injection of zero valent iron (ZVI) via two (2) delivery methods; 1) pneumatic injections, and 2) blast-enhanced bedrock trench hydraulic injections to form a permeable reactive barrier (PRB) on the downgradient edge of the P-1 Plume.

The Pilot Test Work Plan was conditionally approved by the NYSDEC in a letter dated September 28, 2017. The Pilot Test commenced in October 2017 and the injection work was completed in November 2017. This report summarizes the pilot test procedures and results of the post-pilot test groundwater monitoring.

2.0 Site Background

2.1 Geology and Hydrogeology

The overburden in the P-1 area consists of waste/fill generally placed directly on top of bedrock during landfill operation. A thin, discontinuous layer of native sand/silt which is typically overlain by a layer of peat is present in some locations on top of bedrock and ranges from a few inches to a maximum observed thickness of 4.3-ft. A cover of approximately 2-ft of loam is present across the P-1 area.

The waste mass is generally unsaturated; however, a few thin perched zones of saturated conditions are documented and the lowermost 1-2-ft of overburden may seasonally exhibit groundwater.



Depth to bedrock ranges between approximately 23 and 27-ft below ground surface (bgs) at elevations ranging between approximately 519-522 feet above mean sea level (fmsl). Zones have been defined for bedrock and bedrock groundwater as follows:

A-Zone (>518 fmsl)- The A-Zone is comprised of the upper 3-ft of highly fractured and weathered top of bedrock and includes the lowermost portion of saturated overburden, where present.

Upper B-Zone (~512-518 fmsl)- The Upper B Zone spans the bedrock thickness between the A-Zone and B-Zone (3-8-ft btr) and does not exhibit laterally extensive fracturing, however fracture frequency from bedrock core (RQD) and televiewer information suggest a higher frequency of fracturing compared to deeper portions of the bedrock (C and D-Zones).

B-Zone (~508-512 fmsl)- The B-Zone is present from an elevation of approximately 508 to 512 feet above mean sea level (fmsl) (8-16-ft btr) and is characterized by the first laterally extensive high transmissivity fracture zone identified in bedrock core, downhole televiewer observations, and direct evidence of hydraulic communication between wells observed during bedrock coring using air rotary methods.

C-Zone (~494-508 fmsl)- The C-Zone is characterized by the second laterally-extensive fracture system identified through bedrock core, televiewer and hydraulic communication data and is present from approximately 494 to 508 fmsl (16-25-ft btr). The C Zone also exhibits more continuous sections of competent rock.

D-Zone (<494 fmsl)- The D-Zone flow system is characterized by significantly less fractures (RQDs greater than 80) and is present within the Rochester Shale at depths deeper than approximately 494 fmsl (25-ft btr) and below.

The uppermost bedrock at the Site is the Penfield Member of the Lockport Formation. Rochester Shale has been observed in two (2) locations where deep wells were installed (greater than 53-ft bgs) at elevations ranging between approximately 452-467 fmsl.

Groundwater seepage velocity for the shallow bedrock zone was determined to be approximately 3.2 ft/day with a flow gradient of 0.008 from north to south. Based on the invert elevations of the storm sewer in McCrackenville Street east of the P-1 Plume ranging between approximately 517.78-517.08 fmsl, groundwater seasonally discharges to the backfill creating a localized groundwater low parallel with McCrackenville and Emerson Streets and thus may result in slight changes in groundwater flow direction towards the sewer in McCrackenville Street seasonally.

2.2 Nature and Extent

The P-1 Plume impacts various media including groundwater, soil vapor, soil/ fill, and bedrock.

Groundwater: The source area of CVOCs in groundwater (encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10) is approximately 16,000 sq. ft. Based on the reduction of CVOCs from 2000 to 2017 including an 84% decrease in total CVOCs in the P-1 well from 54.4 ppm to 8.9 ppm, and a



77% decrease in total CVOCs in GMX-MW-3 (downgradient) from 5.3 ppm to 1.2 ppm, natural attenuation of the plume is occurring.

A Zone (>518 fmsl): The greatest concentrations of CVOCs in groundwater to date have been detected in the A Zone. Specifically, monitoring wells LAB-DBW-02, LAB-SBW-05, LAB-SBW-09, and P-1 all contained greater than 15 ppm total CVOCs in at least one sampling event. The greatest concentration of total CVOCs in groundwater in the A Zone was 68.8 ppm in LAB-DBW-02. Approximately 38% of the CVOC mass in groundwater is in the A Zone.

Upper B Zone (~512-518 fmsl): The greatest concentration of CVOCs in groundwater in the Upper B Zone was 14.0 ppm in LAB-SBW-09. Approximately 23% of the CVOC mass in groundwater is in the Upper B Zone.

B Zone (~508-512 fmsl): The greatest concentration of CVOCs in groundwater in the B Zone was 21.0 ppm in P-1. Approximately 31% of the CVOC mass in groundwater is in the B Zone.

C Zone (~494-508 fmsl): The greatest concentration of CVOCs in groundwater in the C Zone was 5.2 ppm in LAB-SBW-05. Approximately 8% of the CVOC mass in groundwater is in the C Zone.

D Zone (<494 fmsl): The greatest concentration of CVOCs in groundwater in the D Zone was 0.08 ppm in LAB-DBW-02. There are three (3) wells in the D Zone at the Site; the other two (2) wells were non-detect (LAB-DBW-01 and GMX-MW-6D). There is a negligible amount of CVOC mass in the D Zone.

Soil Vapor: A FESL-wide SVI assessment was conducted from 2009-2017 documented in the 2011 SVI Assessment Report dated June 2011 and Draft SVI Investigation Report dated March 2018 and identified only one (1) building with impacted soil vapor from a FESL-related source. The south adjacent building to the Site (1740 Emerson Street) has been mitigated to prevent SVI related to the FESL. Institutional controls also prevent newly constructed buildings designed for regular occupancy to be occupied without being assessed or mitigated for SVI.

Soil/ Fill: Unincinerated fill material is generally present in the source area at depths ranging from 2-8-ft bgs, with ash present at greater depths. Total CVOCs have been detected in soil/fill at concentrations up to 766 ppm in LAB-OBW-01 at 23-24-ft bgs and total BTEX has been detected in soil/ fill at concentrations up to 3,040 ppm in 2016-SB-20 at 18-19-ft bgs. The greatest concentrations of CVOCs in soil/ fill are present directly above bedrock, generally at depths greater than 20-ft bgs in an approximate 8,000 sq. ft. area (approximately 1,800 cubic yards).

Bedrock: The uppermost 3-ft of bedrock contains the highest concentrations of CVOCs in the rock matrix in the source area. Concentrations of CVOCs generally decrease with depth in the source area. Concentrations of CVOCs in bedrock in wells downgradient of the source area (i.e., LAB-SBW-15 and LAB-SBW-16) were non-detect in the A Zones but were detected in the Upper B/ B Zones. The concentrations of CVOCs in the A Zone bedrock matrix are suggestive



of a DNAPL source in LAB-SBW-02, LAB-SBW-09, LAB-SBW-10, and LAB-DBW-01. The source area impacts in bedrock are approximately 60,000 sq. ft. and vary in elevations across that area from the A Zone to the B Zone. An estimated 18,000 cubic yards of bedrock impacts are present in the source area.

A Zone: The greatest concentration of total CVOCs in bedrock in the A Zone at the Site was 135.3 ppm in LAB-SBW-09. Approximately 75% of the CVOC mass in bedrock is in the A Zone (as shown below this is also approximately 63% of the total CVOC mass in the P-1 Plume source area). Concentrations of CVOCs in LAB-SBW-02 (TCE), LAB-SBW-09 (TCE), LAB-SBW-10 (PCE) and LAB-DBW-01 (PCE) in this zone are suggestive of a DNAPL source.

B Zone: The greatest concentration of CVOCs in bedrock in the B Zone at the Site was 60 ppm in LAB-SBW-05. Approximately 28% of the CVOC mass in bedrock is in the B Zone (as shown below this is also approximately 25% of the CVOC mass in the P-1 Plume area). Concentrations of CVOCs in LAB-SBW-05 (PCE) in this zone are suggestive of a DNAPL source; however, the sample from the A Zone at this location was significantly lower (approximately 126 times lower) which suggest the DNAPL migrated to this location from the source area.

C Zone: The greatest concentration of CVOCs in bedrock in the C Zone at the Site was 0.466 ppm in LAB-SBW-16. There is a negligible amount of CVOC mass in C Zone bedrock.

D Zone: The greatest concentration of CVOCs in bedrock in the D Zone at the Site was 0.016 ppm in LAB-DBW-01. There is a negligible amount of CVOC mass in D Zone bedrock.

A summary of the estimated distribution of contaminant mass is included in the following table.

Distribution of Contaminant Mass in P-1 Plume Study Area

Zone	Soil		Bedrock		Groundwater		Total Mass by Zone	
	Mass (lbs)	% of total Mass	Mass (lbs)	% of total Mass	Mass (lbs)	% of total Mass	Mass (lbs)	% of total Mass
Overburden/ Fill	232	11.78%	--	--	--	--	232	11.78%
Bedrock A Zone	--	--	1,233	62.62%	5	0.25%	1,238	62.87%
Bedrock B1 Zone	--	--	491	24.94%	3	0.15%	498	25.29%
Bedrock B Zone	--	--			4	0.20%		
Bedrock C Zone	--	--	0.10	--	1	0.05%	1	0.05%
Bedrock D Zone	--	--	<0.01	--	<0.01	--	<0.01	0.01
Total Mass (lbs)	232	11.78%	1,724	87.56%	13	<1%	1,969	100%

Notes:

Mass calculations estimated based on concentration contours developed using modeling software.

Assumptions:

Mass of bedrock = 165 lb/ ft³

Mass of soil = 100 lb/ ft³

Porosity of bedrock 10%



The estimated total mass of CVOCs in soil/ fill is 232 lbs (or 11.78% of total mass), groundwater is 13 lbs (or less than 1% of total mass), and bedrock is 1,724 lbs (or 87.56% of total mass). A majority of contaminant mass is in bedrock as opposed to the overburden native soil/ fill material. Calculated porewater concentrations exceed the solubility limits for parent compounds PCE and TCE in bedrock in several locations, which indicates DNAPL source material is suspected, even in the absence of visual confirmation. The significance of these findings relates to contaminant diffusion into the bedrock matrix and the likely presence of DNAPL in tight, closed-ended fractures. Under these situations, back diffusion from the bedrock matrix to groundwater will pose a long-term source of groundwater contamination.

2.3 Conceptual Site Model

During the last years of filling at the FESL, it appears some non-municipal waste was placed in the landfill in the vicinity of P-1 and more specifically in the area encompassed by 2013-SB-01, LAB-OBW-01, 2016-SB-19, 2016-SB-20, LAB-DBW-01, LAB-SBW-02, LAB-SBW-09 and LAB-SBW-10. This is supported by a review of aerial photographs, test pits, high concentrations of impacts in the overburden/ fill on top of bedrock, the presence of the greatest concentrations of CVOCs in A Zone groundwater, and bedrock matrix samples.

NAPL and/or high concentrations of VOC impacted groundwater appear to have migrated laterally and vertically from this source area. Based on rock matrix analysis, impacts migrated to the southeast to LAB-SBW-05 in the A Zone and Upper B Zone. Impacts (not NAPL) further migrated laterally to the west and southwest (LAB-SBW-13 and LAB-SBW-14) and to the south (LAB-SBW-15 and LAB-SBW-16) into the B Zone. This is evidenced by greater concentrations of CVOCs in the B Zone than in the A Zone in these locations. Impacts have not migrated at significant concentrations laterally to the southeast or vertically to the C or D Zones.

As the impacts have migrated downward vertically and laterally, natural degradation has been occurring. This is evidenced by greater concentrations of daughter compounds than parent compounds in bedrock groundwater. In addition, the source edge bedrock samples have a higher proportion of daughter compounds than the samples in the source area. Furthermore, the overall P-1 Plume area has decreased since 2000 and concentrations of total CVOCs have declined. Refer to Figure 3 for a representation of the P-1 Plume.

In accordance with the EPA Technical Protocol Table 2.4 evaluation performed, there is “*Adequate Evidence for anaerobic biodegradation (reductive dechlorination) of chlorinated organics*”. Additionally, compound-specific isotope analysis (CSIA) results indicate natural transformation of parent material (PCE and TCE) to daughter products is occurring. The mechanism for transformation was evaluated using Bio-Trap samplers. Analytical results indicate the presence of DHC (Dehalococcoides) and DHBt (Dehalobacter) in population ranges capable of natural biodegradation of CVOCs in the P-1 study area; however, biodegradation appears to be incomplete prior to regulated contaminants leaving the property boundary. This is supported by the fact that chloroethane, cis-1,2-dichloroethene, and vinyl chloride are detected in the downgradient wells. Specifically, chloroethane (145 ppb), cis-1,2-dichloroethene (751 ppb), and vinyl chloride (305 ppb) were detected in GMX-MW-3 downgradient of the source area proximate to the eastern property boundary in May 2017, and parent compounds were not detected.



3.0 Remedial Action Objectives

The primary Remedial Action Objectives (RAOs) are as follows:

Groundwater RAOs:

- a. Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards;
- b. Prevent contact with, or inhalation of volatiles, from contaminated groundwater; and
- c. Prevent off-Site migration of contaminants in groundwater.

Soil RAOs:

- a. Prevent ingestion/ direct contact with contaminated soil;
- b. Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil; and
- c. Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor RAOs

- a. Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

4.0 Pilot Test Objectives

Various remedial technologies were evaluated in the Pilot Test Work Plan including ISCR, electrical resistance heating (ERH), MNA, pump and treat, etc. The selected technology was ISCR with MNA. Various treatment chemicals and delivery methods were evaluated for the ISCR approach. The selected methodology to be implemented was a PRB using micro-scale ZVI (1-100 micron) injected via two (2) different delivery methods; 1) pneumatic injection and 2) hydraulic injections in a blast-enhanced bedrock trench. The primary objective of the pilot test was to:

- Assess the distribution of treatment chemical (i.e., radius of influence and uniformity of distribution) for two delivery method options.

A secondary objective was to:

- Monitor the ability to reduce CVOCs and completely degrade CVOCs in the PRB area in order to assess the required lateral width of the PRB.

5.0 Methodologies

Micro-scale ZVI was the selected treatment chemical. The ZVI was supplied by Hepure. A summary of the drilling and injection procedures for each delivery method are included in the following subsections. The work was completed in accordance with the Pilot Test Work Plan with the exception of deviations listed in Section 6.4. Refer to Figure 4 for location of the pilot test.



5.1 Blast-Enhanced Bedrock Trench

Shot holes were drilled by Nothnagle Drilling using a track mounted HCR 900 Rock Drill on October 2 and 3, 2017. Shot holes were drilled approximately 5-feet apart to create a 50-ft long trench 15-ft below the top of bedrock. Rock cores were not retrieved. Shot holes were drilled to approximately 15-ft btr (total depths ranging from approximately 38-38.5-ft bgs or 509.8-510.3 fmsl). A temporary 3-inch steel casing was installed in each shot hole. Five (5) shot holes were drilled on October 2, 2017 designated BH-1 through BH-5. Subsequently, Maine Drilling and Blasting loaded six (6) sticks of dynamite, each one 16-inches in length and 4.1 lbs, to each shot hole. The holes were filled with pea stone and temporary casings were removed. Blast mats were placed over the shot holes and dynamite wiring was interconnected above grade. The dynamite was detonated by Main Drilling and Blasting.

The last five (5) shot holes designated BH-6 through BH-10 were completed on October 3, 2017 in the same manner as the first five (5) with one exception. When BH-6 through BH-10 were drilled, the top of rock was not as fractured as anticipated; as such, seven (7) sticks of dynamite were utilized in BH-6 through BH-10 rather than six (6) sticks as utilized in BH-1 through BH-5. During blasting of BH-6 through BH-10, spouting was observed in LAB-SBW-15 approximately 15-ft south of the shot holes. Influence was not visually observed at the time of blasting at other monitoring wells. Packers were not placed in wells during the bedrock blasting.

Maine Drilling and Blasting placed seismographs on both buildings at 500 Lee Road to the west of the blast and at the southern end of the solar panel array at 1655 Lexington Avenue to the north of the blast. Seismograph readings were well below the action level of 2 peak particle velocity (ppv). Maine Drilling and Blasting's daily reports are included in Appendix 5.

5.2 Multi-Level Well Installation

Multi-level wells were designed to allow for visual evaluation of the distribution of ZVI at various discrete depth intervals. Eight (8) sets of multi-level wells designated ML-1 through ML-8 were installed by Nothnagle Drilling from October 2 to October 12, 2017 using a CME85 truck mounted drill rig. ML-6, ML-7 and ML-8 installed in the blast-enhanced bedrock trench were installed after the blasting from October 9 through October 11. Three (3) multi-level wells were installed within the blast-enhanced bedrock trench (ML-6, ML-7 and ML-8). The remaining five (5) multi-level wells were installed proximate the proposed pneumatic injection points at varying distances from proposed injection points. Rock was drilled with a 5 7/8 inch (inside diameter) roller bit to approximately 17-ft btr (elevations ranging from approximately 502.4-505.0 fmsl). Rock cores were not retrieved. Subsequently, three (3) 1-inch diameter PVC wells were installed at varying depth intervals. Well screens consisting of 0.020-slot PVC were installed at depths of approximately 0-3-ft btr (A Zone, >518 fmsl), 5-10-ft btr (Upper B Zone, 512-518 fmsl), and 12-17-ft btr (B Zone, 508-512 fmsl). The annulus of the screened sections was filled with pea stone to allow for ZVI to infiltrate the wells. The sections between the screens were sealed with bentonite to seal out the other monitoring zones. Refer to Appendix 1 for well construction logs. Well construction information is also included on Table 4.



5.3 Injection Point Installation

Five (5) injection points, designated IP-1 through IP-5, were installed by Cascade using a sonic drill rig from October 23-27, 2017. Two (2) of the injection points were installed in the blasted bedrock trench (IP-1 and IP-2). The remaining three (3) were installed farther east for pneumatic injections at approximate 30-ft spacing. Injection points were installed by drilling with a 7-inch diameter core barrel through the overburden and 1 to 2-ft btr to set a 5-inch steel casing. Subsequently, a 4.75-inch diameter core hole was drilled to depths of approximately 15-feet btr (terminal elevations ranging from 505.1 to 508.1 fmsl). The injection points were completed as open rock wells (i.e., no screen or sand pack installed). Rock cores were retrieved and photographs of the cores are included in Appendix 2. Refer to Appendix 1 for well construction logs.

Following installation of the injection points, each one was scoped with a Well-Vu camera to observe fractures. IP-1 installed within the blast-enhanced bedrock trench was blocked at approximately 30-ft bgs due to cave in. 4-inch PVC casing was placed in IP-1 and IP-2 temporarily to prevent further cave in prior to the injection work. Table 4 includes well information including screening intervals, and depths of fractures observed with the televiewer.

5.4 ZVI Injections

Blasted Bedrock Trench:

ZVI was injected at an approximate 6% dosing of the bedrock mass (i.e., mass of bedrock within the treatment zone) on November 7 and November 8, 2017. The slurry was mixed and injected by Cascade using an injection module which controls pressure and flow rate (refer to Appendix 4 for Cascade's Report which includes details regarding the injection equipment). Approximately 28,000 lbs of ZVI was injected into the blast-enhanced bedrock trench. All 28,000 lbs of material was injected into IP-2 near the center of the blast-enhanced trench (i.e., approximately 20 feet from the east end of the trench and 30 feet from the west end of the trench). IP-1 was to be utilized if distribution of ZVI was not observed in all multi-level wells within the trench (ML-6, ML-7 and ML-8). ZVI was observed in each of the multi-level wells in the trench; as such, IP-1 was not utilized. Additional details on the injections are included in Section 6.0. The following table summarizes injection intervals, quantities, flow rates and pressures for the blast-enhanced bedrock trench.



Blast-Enhanced Bedrock Trench Injection Summary

Injection Point ID	Date of Injection	Depth of Steel Casing (ft. bgs/ fmsl)	Depth of Well (ft bgs)	Injection Interval #	Injection Interval (ft bgs / fmsl)	Qty Water (gallons)	Qty ZVI (lbs)	Percent Slurry	Flow Rate (GPM)	Injection Pressures
IP-2	11/7-11/8	23 / 521.3	38 / 506.3	1	*24-38 / 506.3-520.3	1,223	5,529	35.15%	40-60	15-60
				2	*31-34 / 510.3-513.3	1,223	5,598	35.43%	40-45	40-60
				3	*27-31 / 513.3-517.3	1,223	5,598	35.43%	30-45	30-60
				4	*25-27 / 517.3-519.3	1,223	5,598	35.43%	30-45	35-50
				5	23-25 / 519.3-521.3	1,223	5,598	35.43%	30-45	30-60

Notes:

* indicates fracture observed with camera

Intervals are listed in order of injection

Top packer was mistakenly not inflated during interval #1; as such, the entire open rock interval represents the injection interval

Pneumatic Enhancement:

Pneumatic enhancement is a method of high pressure injection that is utilized to expand existing fractures for improved chemical delivery. Fractures were enhanced using nitrogen gas injected at pressures up to approximately 325 psi. Packer assemblies were utilized to target intervals of approximately 3-feet for ZVI delivery. During injection of the interval at the bottom of the injection point (i.e., approximately 12-15-ft btr) the bottom packer was left off the assembly and the top packer was inflated. During subsequent intervals, a bottom packer was added and inflated to target an approximate 3-ft interval.

A dosing of 0.6% of the “soil” mass (i.e., mass of bedrock within the treatment zone) was utilized. Pneumatic injections were completed from November 8-10, 2017. 9,250 lbs of ZVI was injected in each IP-4 and IP-5. 9,035 lbs of ZVI was injected in IP-3. Each interval received approximately 1,850 lbs ZVI per injection point with the exception of IP-3 in which 3,485 lbs (double the amount) was applied to the uppermost interval. The slurry ranged from approximately 35.24% to 41.57% iron. The following table summarizes injection intervals, quantities, flow rates and pressures for the pneumatic injections.



Pneumatic Injection Summary

Injection Point ID	Date of Injection	Depth of Steel Casing (ft bgs / fmsl)	Depth of Well (ft bgs / fmsl)	Injection Interval #	Injection Interval (ft bgs / fmsl)	Qty Water (gallons)	Qty ZVI (lbs)	Percent Slurry	Flow Rate (GPM)	Injection Pressures	Max Pressure During Pneumatic Enhancement	Maintenance Pressure (pneumatic only)
IP-5	11/8	26.5	39	6	*36-39 / 508.4-511.4	408	1,850	35.24%	40-50	30-40	282	267
				7	33-36 / 511.4-514.4	408	1,850	35.24%	35-40	40-60	265	212
				8	*30-33 / 514.4-517.4	408	1,850	35.24%	35-55	40-60	285	235
				9	*28-30 / 517.4-519.4	408	1,850	35.24%	40-55	40-60	232	218
				10	26-28 / 519.4-521.4	408	1,850	35.24%	35-45	40-60	225	196
IP-4	11/9	25	41	11	38-41 / 505.1-508.1	308	1,850	41.87%	40	20-30	245	211
				12	*35-38 / 508.1-511.1	308	1,850	41.87%	30-35	60-80	325	235
				13	32-35 / 511.1-514.1	308	1,850	41.87%	30-35	45-60	255	225
				14	*29-32 / 514.1-517.1	308	1,850	41.87%	30-35	40-80	225	195
				15	*26-29 / 517.1-520.1	308	1,850	41.87%	35	60	225	190
IP-3	11/10	25	40	16	35.5-38.5 / 506.6-509.6	312	1,850	41.57%	35-50	30-45	245	220
				17	*31.5-34.5 / 510.6-513.6	312	1,850	41.57%	30-40	40-60	225	203
				18	28.5-31.5 / 513.6-516.6	312	1,850	41.57%	30-40	40-60	210	194
				19	*25.5-28.5 / 516.6-519.6	671	3,485	38.36%	30-40	40-60	200	190

Notes:

* indicates depth with fracture observed with camera
Intervals are listed in order of time of injection

5.5 Soil Gas Screening

Per the NYSDEC conditional approval of the Pilot Test Work Plan, soil gas screening was conducted throughout the pilot test program on a regular basis to document the effects, if any, of the pilot test on soil vapor at the Site. Eight (8) soil gas points were installed across the Site to approximately 5-ft bgs. Soil gas points consisted of PVC screen backfilled with quartz sand. Soil gas points were installed at distances ranging from approximately 170 feet and 350 feet from the pilot test area in the direction of groundwater flow and between the P-1 Plume and locations of off-Site buildings (refer to Figure 5).



A set of baseline data was collected prior to any blasting or injections, on October 2, 2017. During pilot test work (drilling, blasting and injections), soil gas points were screened a minimum of once per day with a methane meter and PID. Soil gas points were also screened several days after the work concluded and again in June 2018 during the 3rd post-injection sampling event (approximately 6 months after injections). Methane and PID readings were recorded and are included on Table 3. Graphs representing methane readings and PID readings over the course of the work are attached.

The data did not present any definitive trends that could be attributed to pilot test work. The blasting and pneumatic injections did not appear to cause an increase in methane or VOCs in soil vapor at the Site. There is no correlation between pilot test activities and methane or VOCs in soil vapor.

6.0 Results

6.1 Performance Monitoring

Analytical testing was utilized to evaluate qualitative changes in concentrations of VOCs and other water quality parameters in groundwater. Two (2) other methods were utilized to assess distribution of ZVI; 1) pressure monitoring of surrounding wells during injections; and 2) visual observation of ZVI in surrounding monitoring wells.

Pressure Monitoring:

During pneumatic injections, packers were placed in surrounding wells. Pressure gauges were placed on select wells in the closest proximity to the injection location and at depths similar to injection depths. Pressures observed at surrounding wells are included on Table 5. It should also be noted that during injections in IP-3, spouting was observed at ML-7S in the blast-enhanced bedrock trench; however, a gauge was not installed.

During bedrock trench injections, pressure gauges were placed on wells within the bedrock trench (ML-6, ML-7 and ML-8) as well as LAB-SBW-09 and LAB-SBW-15. Wells within the bedrock trench were pressurized during injections. In general, wells within closest proximity (within 15-feet) to the pneumatic injection points that were screened at similar intervals to the injection interval became pressurized. Monitoring wells became pressurized up to 35-feet from pneumatic injections (pressure in LAB-SBW-16 during IP-5 injection 35-feet away, pressure in ML-1D during IP-4 injection 34-feet away, and pressure in LAB-SBW-16 during IP-3 injection 35-feet away). Intermediate intervals ML-1I and ML-2I were pressurized greater than 15 psi during IP-4 and IP-5 injections. In addition, ML-2S during injection of IP-4 and ML-4D during injection of IP-3 were pressurized greater than 15 psi. Refer to Table 5 for additional details.

Visual Observations:

Following injection of ZVI in each point, surrounding wells were visually evaluated for ZVI using bailers. A photograph log included as Appendix 2 contains photographs of a sample collected from each well post-injections. The following wells were gauged for ZVI during and after injections:



Visual Observation of Iron in Monitoring Wells

Well ID	ZVI Observed	Nearest Injection Point/ Distance	Well ID	ZVI Observed	Nearest Injection Point/ Distance (ft)
ML-1S	Yes	IP-5 / 16 ft	ML-5D	Yes	IP-3 / 14 ft
ML-1I	Yes		ML-6S	Yes	IP-2 / 15 ft
ML-1D	Yes		ML-6I	Yes	
ML-2S	Yes	IP-4 / 10 ft	ML-6D	Yes	IP-2 / 11 ft
ML-2I	Yes		ML-7S	Yes	
ML-2D	Yes		ML-7I	Yes	
ML-3S	Yes	IP-3 / 8 ft	ML-7D	No	IP-2 / 25 ft
ML-3I	No		ML-8S	Yes	
ML-3D	No		ML-8I	Yes	
ML-4S	Yes	IP-3 / 14 ft	ML-8D	Yes	IP-5 / 40 ft
ML-4I	Yes		SBW-07	No	
ML-4D	Yes		SBW-09	No	
ML-5S	Yes	IP-3 / 14 ft	SBW-15	Yes	IP-2 / 17 ft
ML-5I	No		SBW-16	Yes	IP-4 / 17 ft

Green cells indicate ZVI was observed. Red cells indicate ZVI was not observed.

The radius of influence of the pneumatic injections was similar amongst pneumatic injection points, and is assumed to be 15-ft. Injections within the blast-enhanced bedrock trench appeared to reach the entire extent of the blast-enhanced trench that was created (i.e., up to 2.5-ft radius in width and 30-ft. radius in length). The following table includes depths of wells prior to and following injections. The most significant iron buildup was in ML-6S and ML-7S in the blast enhanced bedrock trench.

Depths of Wells

Well ID	Depth of Well (Below top of Casing) Measured During Well Development (Pre-Injections)	Depth of Well (Below top of casing) Post-Injections (11/13/17)	Change in Depth (feet)
ML-1S	30.50	30.22	0.3
ML-1I	37.50	37.23	0.3
ML-1D	44.50	44.51	0.0
ML-2S	30.40	29.41	1.0
ML-2I	38.25	35.50	2.8



Well ID	Depth of Well (Below top of Casing) Measured During Well Development (Pre-Injections)	Depth of Well (Below top of casing) Post-Injections (11/13/17)	Change in Depth (feet)
ML-2D	43.90	43.65	0.3
ML-3S	28.00	27.98	0.0
ML-3I	35.02	35.02	0.0
ML-3D	42.12	42.15	0.0
ML-4S	29.50	28.60	0.9
ML-4I	35.05	35.20	-0.2
ML-4D	42.10	42.01	0.1
ML-5S	26.95	26.71	0.2
ML-5I	34.95	34.95	0.0
ML-5D	40.90	40.80	0.1
ML-6S	29.05	25.70	3.4
ML-6I	35.90	35.91	0.0
ML-6D	42.50	42.62	-0.1
ML-7S	28.25	24.80	3.5
ML-7I	35.22	35.21	0.0
ML-7D	42.45	42.59	-0.1
ML-8S	28.28	28.30	0.0
ML-8I	35.41	35.40	0.0
ML-8D	42.55	42.59	0.0

Bold indicates decrease in well depth, assumed to be caused by iron buildup in the bottom of the well.

Within the blast-enhanced bedrock trench, ZVI was observed in all multi-level wells except ML-7D. Within the pneumatic injection area, ZVI was observed in all multi-level wells except ML-3I, ML-3D and ML-5I which were in closest proximity to IP-3. The most ZVI was observed in shallow and intermediate multi-level wells. Specifically, the most ZVI was observed in ML-7S (3.5-ft) and ML-6S (3.4-ft) within the blast-enhanced bedrock trench and ML-2I (2.8-ft) and ML-2S (1-ft) in the pneumatic injection area (closest to IP-4). Figure 6 shows the two (2) PRB areas and the inferred extent of the effective PRB based on visual observations of ZVI.

6.2 Groundwater Sampling

Baseline groundwater sampling was conducted prior to implementation of the pilot test. Three (3) rounds of groundwater sampling were conducted following the pilot test as follows:

Event	Dates	Approximate Time After Injections
Performance Monitoring Event #1	January 2-9, 2018	2 months
Performance Monitoring Event #2	February 21, 2018	3.5 months
Performance Monitoring Event #3	June 13-15, 2018	7 months
Performance Monitoring Event #4	February 26-27, 2019	15 months



Baseline Monitoring

To evaluate the performance of the pilot test, baseline and performance groundwater monitoring was completed from eight (8) wells for the following parameters.

- TCL VOCs
- Sulfate
- Sulfide
- Iron II
- Nitrate
- Nitrite
- Ethane
- Ethene
- Chloride

The following wells were sampled:

- ML-2S
- ML-2I
- ML-2D
- ML-7S
- ML-7I
- ML-7D
- LAB-SBW-15
- LAB-SBW-16

GMX-MW-3 was also sampled for VOCs during Performance Monitoring Event #4. During Performance Monitoring Event #4, analysis of all wells included VOCs only. Groundwater samples were collected using low-flow techniques with a bladder pump. Water quality parameters were collected in the field at 5 minute intervals and recorded until parameters stabilized. Low-flow sampling logs are included as Appendix 1.

Baseline sampling of LAB-SBW-15 and LAB-SBW-16 was conducted in May 2017. In addition, two (2) sets of three (3) multi-level wells (ML-2 and ML-7) were sampled in October 2017 following bedrock blasting but prior to chemical injections.

Performance Monitoring Event #1

The first round of performance monitoring was conducted from January 2-9, 2018, approximately 2 months after the ZVI injections. Due to iron build up in monitoring well ML-7S, only sample volume sufficient for VOC analysis could be collected.

VOCs

Total CVOCs increased in all wells except ML-7D which decreased by 22%. Parent compounds PCE and TCE decreased or remained non-detect in all wells except ML-2D in which the concentration of TCE increased slightly from 11 ppb to 16 ppb. Breakdown compounds cis-1,2-dichloroethene and vinyl chloride increased in all monitoring wells except ML-7D. The greatest increases of total CVOCs occurred in LAB-SBW-15 (91.16 ppb to 5,513 ppb), LAB-SBW-16 (475.17 ppb to 1,258.7 ppb), ML-2D (148.51 ppb to 516.3 ppb) and ML-7I (4,515 ppb to 15,810 ppb). In addition, CVOCs in ML-2I increased by 81% (6,250 ppb to



11,340 ppb). The increase in total CVOCs were mainly due to cis-1,2-dichloroethene and vinyl chloride which accounted for between 32% to 100% of the total CVOCs.

Although the purpose of the pilot test was to evaluate remedial options for remediation of CVOCs in groundwater, petroleum compounds were also assessed. Total BTEX (benzene, toluene, ethylbenzene, and xylenes) increased in each well except for ML-7S and ML-7D. The most significant increase in BTEX concentrations was ML-2S which increased from 6 ppb to 658 ppb.

Water Quality Parameters:

Water quality parameters including dissolved oxygen (DO) and oxidation reduction potential (ORP) were recorded in 5 minute intervals during sampling. DO decreased in all wells except SBW-15. ORP decreased in all wells. It should be noted that the DO meter was reading negative concentrations. The last positive reading recorded during purging was included on Table 2.

Other parameters including ethane, ethene, ferrous iron, nitrate, nitrite, chloride, sulfate, and sulfide were analyzed by the laboratory. Ethane and ethene increased in LAB-SBW-15 only. Sulfate decreased in all wells. Sulfide generally remained the same as baseline. Ferrous iron was non-detect in all wells except LAB-SBW-15. Nitrate and nitrite were non-detect in all wells except ML-2D and ML-7D. Chloride decreased in all wells except LAB-SBW-16.

Tabulated VOC data is included as Table 1. Tabulated water quality parameters are included as Table 2. Refer to the attached graphs for a representation of baseline versus post-injection concentrations.

Performance Monitoring Event #2

The second round of performance monitoring was conducted on February 21, 2018, approximately 6 weeks after the first round and 14 weeks after ZVI injections. Due to iron build up in monitoring well ML-7S this well could not be sampled for any parameters.

VOCs

Total CVOCs decreased in all monitoring wells from the first performance monitoring event. In comparison of CVOCs from baseline to the second performance monitoring event, total CVOCs decreased in all monitoring wells except LAB-SBW-15 (91.16 ppb to 142.4 ppb), ML-2D (148.51 ppb to 260.9 ppb) and ML-7I (4,515 ppb to 4,690 ppb). Increases in total CVOCs are a result of increases of breakdown compounds cis-1,2-dichloroethene and vinyl chloride. PCE was non-detect in all wells. TCE was detected at relatively low concentrations in ML-2D (2.9 ppb) and ML-7D (9.8 ppb) only.

Total BTEX decreased from the first to the second performance monitoring event in all wells except LAB-SBW-16 (293.8 ppb to 303 ppb) and ML-2D (5.9 ppb to 267 ppb). Total BTEX only decreased in ML-7D from baseline to the second performance monitoring event. BTEX increased from baseline to the second performance monitoring event in LAB-SBW-15 (4.7 ppb to 25.4 ppb), LAB-SBW-16 (28.6 ppb to 303 ppb), ML-2S (6 ppb to 471 ppb), ML-2I (170 ppb to 577 ppb), ML-2D (1.4 ppb to 267 ppb), and ML-7I (134 ppb to 198 ppb).



Water Quality Parameters:

DO increased from baseline to the second performance monitoring event in LAB-SBW-15 and LAB-SBW-16. DO decreased in remaining wells. It should be noted that the DO meter was reading negative concentrations. The last positive reading recorded during purging was included on Table 2. ORP decreased from baseline to the second performance monitoring event in all wells except LAB-SBW-15.

Other parameters including ethane, ethene, ferrous iron, nitrate, nitrite, chloride, sulfate, and sulfide were analyzed by the laboratory. From the baseline to the second performance monitoring event, ethane and ethene increased in ML-2I, ML-7I, and ML-7D. Ferrous iron remained non-detect. Nitrate was only detected in ML-2I and ML-7D. Nitrite remained non-detect. Chloride and sulfate decreased in all wells. Sulfide remained non-detect in all wells except LAB-SBW-15 in which it increased and LAB-SBW-16 in which it decreased to non-detect.

Tabulated VOC data is included as Table 1. Tabulated water quality parameters are included as Table 2. Refer to the attached graphs for a representation of baseline versus post-injection concentrations.

Performance Monitoring Event #3

The third round of performance monitoring was conducted from June 13-15, 2018, approximately 7 months after ZVI injections. ML-7S and ML-2S were dry and could not be sampled.

VOCs

Total CVOCs decreased in all monitoring wells from the second performance monitoring event except LAB-SBW-15 and LAB-SBW-16 which increased 205% and 98%, respectively. Total CVOCs in the second sampling event in LAB-SBW-15 were 142 ppb and in the third sampling event were 435 ppb. Total CVOCs in the second sampling event in LAB-SBW-16 were 150 ppb and in the third sampling event were 297 ppb. In comparison of CVOCs from baseline to the third performance monitoring event, total CVOCs decreased in all monitoring wells except LAB-SBW-15 which increased from 91.16 ppb to 435 ppb, or 377%; however, chloroethane (420 ppb of the total 435 ppb) accounts for a majority of CVOCs in this well. Total CVOCs have decreased most significantly from the baseline sampling event to the most recent sampling event by up to 100% in ML-2S (688 ppb to non-detect or 100%), and ML-2I (6,250 ppb to 82 ppb or 99%). ML-2I had the greatest concentration of CVOCs during the baseline sampling.

From the baseline sampling to the most recent sampling event for each well, BTEX has decreased in ML-7S, ML-7I and ML-7D within the blast-enhanced bedrock trench and increased in all other wells. The most significant increase in BTEX is in ML-2D which increased from 1.4 ppb to 136 ppb. The greatest concentration of BTEX in the third sampling event was 205 ppb in LAB-SBW-16. Free product has not been observed during pilot test sampling.

Water Quality Parameters:

DO decreased from baseline to the third performance monitoring event in all wells except ML-7D. ORP decreased from baseline to the third performance monitoring event in all wells except LAB-SBW-16.



Other parameters including ethane, ethene, ferrous iron, nitrate, nitrite, chloride, sulfate, and sulfide were analyzed by the laboratory. From the baseline to the third performance monitoring event, ethane and ethene increased in all wells except ML-2S which was non-detect for ethane and ethene. Ferrous iron increased in LAB-SBW-15 and LAB-SBW-16 and remained non-detect in all other wells. Nitrate was only detected in ML-2I and ML-7D. Nitrite was only detected in ML-7D. Chloride and sulfate decreased in all wells except ML-7I (chloride increased) and ML-7D (chloride and sulfate increased). Sulfide remained non-detect in all wells except LAB-SBW-15 in which it increased and LAB-SBW-16 in which it decreased to non-detect.

Tabulated VOC data is included as Table 1. Tabulated water quality parameters are included as Table 2. Refer to the attached graphs for a representation of baseline versus post-injection concentrations.

Performance Monitoring Event #4

The fourth round of performance monitoring was conducted from February 26-27, 2019, approximately 15 months after ZVI injections. ML-7S was dry and could not be sampled.

VOCs

Total CVOCs decreased in all monitoring wells from the prior performance monitoring event except ML-2S, ML-2I and ML-2D which increased 100%, 37% and 62%, respectively. Total CVOCs in the second sampling event in ML-2S were non-detect and in the fourth sampling event were 86 ppb. Total CVOCs in the third sampling event in ML-2I were 82 ppb and in the fourth sampling event were 113 ppb. Total CVOCs in the third sampling event in ML-2D were 68 ppb and in the fourth sampling event were 110 ppb. In comparison of CVOCs from baseline to the third performance monitoring event, total CVOCs decreased in all monitoring wells by between 15% and 98% with the exception of ML-7S which was only sampled during one performance monitoring event.

From the baseline sampling to the most recent sampling event for each well, BTEX has decreased in all wells except LAB-SBW-15, ML-2S and ML-2D. The most significant increase in BTEX is in ML-2S which increased from 6 ppb to 107 ppb. The greatest concentration of BTEX in the fourth sampling event was 118 ppb in ML-2I. Free product has not been observed during pilot test sampling.

Water Quality Parameters:

DO decreased from baseline to the fourth performance monitoring event in all wells except LAB-SBW-15 and LAB-SBW-16. ORP decreased from baseline to the fourth performance monitoring event in all wells except LAB-SBW-15 and LAB-SBW-16.

Tabulated VOC data is included as Table 1. Refer to the attached graphs for a representation of baseline versus post-injection concentrations.

The following table represents changes in concentrations of total CVOCs, parent compounds TCE and PCE, breakdown compounds cis-1,2-dichloroethene and vinyl chloride, and total BTEX. Refer to Section 7.0 for overall conclusions based on these results.



Summary of Total CVOCs During Pilot Test Performance Monitoring

Well ID	Location	Compounds	Baseline	Post-Injection Event 1	Post-Injection Event 2	Post-Injection Event 3	Post-Injection Event 4	Net Change (% change from baseline to Most Recent Sampling Event)	% change from baseline to Event #1	% change from Event #1 to Event #2	% change from Event #2 to Event #3	% change from Event #3 to Event #4
SBW-16	Downgradient of pneumatic injection area	Total CVOCs	475	1,259	150	297	15	-97%	165%	-88%	98%	-95%
		PCE+TCE	8	5	0	0	0	-100%	-33%	-100%	NA	NA
		cis-1,2-DCE + VC	279	1,150	121	224	9	-97%	312%	-89%	85%	-96%
		BTEX	29	294	303	205	25	-14%	927%	3%	-32%	-88%
ML-2S	Pneumatic injection area	Total CVOCs	688	780	0	NA	86	-87%	13%	-100%	NA	NA
		PCE+TCE	0	0	0	NA	0	NA	NA	NA	NA	NA
		cis-1,2-DCE + VC	650	780	0	NA	82	-87%	20%	-100%	NA	NA
		BTEX	6	658	471	NA	107	1683%	10867%	-28%	NA	NA
ML-2I	Pneumatic injection area	Total CVOCs	6,250	11,340	3,168	82	113	-98%	81%	-72%	-97%	37%
		PCE+TCE	260	0	0	0	0	-100%	-100%	NA	NA	NA
		cis-1,2-DCE + VC	3,990	9,000	2,130	14	98	-98%	126%	-76%	-99%	600%
		BTEX	170	620	577	171	118	-31%	265%	-7%	-70%	-31%
ML-2D	Pneumatic injection area	Total CVOCs	149	516	261	68	110	-26%	248%	-49%	-74%	62%
		PCE+TCE	12	16	3	0	1	-92%	34%	-82%	-100%	100%
		cis-1,2-DCE + VC	86	280	213	0	6	-93%	226%	-24%	-100%	100%
		BTEX	1	6	267	136	11	650%	321%	4425%	-49%	-92%
SBW-15	Downgradient of blast-enhanced bedrock trench	Total CVOCs	91	5,513	142	435	78	-15%	5948%	-97%	205%	-82%
		PCE+TCE	0	0	0	0	0	NA	NA	NA	NA	NA
		cis-1,2-DCE + VC	7	5,200	23	0	0	-100%	78331%	-100%	-100%	NA
		BTEX	5	48	25	30	8	68%	921%	-47%	17%	-73%
ML-7S	Blast enhanced bedrock trench	Total CVOCs	0	7	NA	NA	NA	100%	NA	NA	NA	NA
		PCE+TCE	0	0	NA	NA	NA	NA	NA	NA	NA	NA
		cis-1,2-DCE + VC	0	3	NA	NA	NA	100%	100%	NA	NA	NA
		BTEX	27	10	NA	NA	NA	-61%	-61%	NA	NA	NA
ML-7I	Blast enhanced bedrock trench	Total CVOCs	4,515	15,810	4,690	1,493	778	-83%	250%	-70%	-68%	-48%
		PCE+TCE	175	0	0	0	13	-93%	-100%	NA	NA	NA
		cis-1,2-DCE + VC	3,310	13,900	3,770	920	360	-89%	320%	-73%	-76%	-61%
		BTEX	134	280	198	113	113	-16%	109%	-29%	-43%	0%
ML-7D	Blast enhanced bedrock trench	Total CVOCs	2,443	1,917	713	357	453	-81%	-22%	-63%	-50%	27%
		PCE+TCE	112	45	10	14	0	-100%	-60%	-78%	43%	-100%
		cis-1,2-DCE + VC	1,230	950	39	74	370	-70%	-23%	-96%	90%	400%
		BTEX	83	49	42	8	16	-81%	-41%	-14%	-82%	105%

Notes:

- indicates the well was not sampled due to lack of water in the well.
 NA indicates not applicable (no change in concentration or well was not sampled).
 ND indicates non-detect.
 Red cells indicate an increase in concentration. Green cells indicate a decrease in concentration.
 Most recent sampling event refers to the last time the well could be sampled.
 Baseline data from SBW-15 and SBW-16 includes data from PDB sampling in May 2017.
 Concentrations rounded to the nearest whole number.



6.3 Quality Control

Matrix spike/ matrix spike duplicate (MS/MSD) and blind duplicate samples were collected at a rate of 1 per 20 samples or one per shipment for VOCs only. A trip blank was included with each shipment of VOCs and analyzed for TCL VOCs. VOC results were validated by a third party validator, Dataval Inc. and any modifications to the data by the validator are reflected in Table 1, attached. The remaining parameters are considered water quality parameters and were not validated. It should be noted that negative VOC results from baseline sampling (October 2017) of multi-level wells were rejected due to headspace in the VOA vials. All positive results from this sample set were qualified as estimations. No other results were rejected by the DUSRs and results were deemed technically defensible and completely usable by the validator. Data Usability Summary Reports (DUSRs) are included as Appendix 6.

6.4 Deviations to the Pilot Test Work Plan

Work was completed in general accordance with the Pilot Test Work Plan. Deviations are summarized below:

- The last injection interval (25.5-28.5-ft bgs) in IP-3 received almost twice as much iron as the other pneumatic injection intervals. The flow rate remained the same (approximately 30-40 GPM). This deviation was completed to evaluate if the formation could accept more ZVI than the 0.6% dose originally planned. Due to the sustained pressures during injection of this additional dosing it appears this interval in the formation can accept a higher dosing rate.
- The location of the blast-enhanced bedrock trench was moved slightly to the north to avoid interference with trees. The western end of the trench moved the farthest with a maximum change of approximately 10-ft north.
- During the first injection in IP-2 in the blast-enhanced bedrock trench, the top packer was mistakenly not inflated; as such, the entire open rock interval represents the injection interval for this first interval. The packers were inflated for remaining intervals.
- Due to iron buildup in ML-7S, limited sample volume only allowed for VOC analysis during the first performance monitoring event. None of the parameters could be collected during the second, third, or fourth performance monitoring event in ML-7S. Similarly, ML-2S was dry during the third performance monitoring event and could not be sampled.
- Grout was lost in the formation during installation of injection points IP-1, IP-2 and IP-5. It was difficult to get a good seal at the top of bedrock due to the fractured nature of the uppermost few feet of bedrock, in particular in the blast-enhanced bedrock trench.

7.0 Findings, Conclusions and Recommendations

The following findings, conclusions and recommendations are provided on the overall approach (PRB with ZVI) and a comparison of the two methods:

7.1 Summary of Findings

The overall findings of the pilot test are summarized below.

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- Total CVOCs increased in all wells, except ML-7D which decreased, approximately 2 months after injections; however, parent compounds (PCE & TCE) decreased in all wells during this period except ML-2D in which TCE increased slightly. Additional details on parent compounds in comparison to degradation products are summarized below:

Parent Compounds:

PCE and TCE have decreased overall in all wells. Concentrations of PCE and TCE have decreased to non-detect in all wells except ML-2D in which TCE was 1 ppb in the fourth monitoring event, a decrease of 91% from baseline and in ML-7I in which PCE was 2.9 ppb in the fourth monitoring event (reduction of 92% from baseline) and TCE was 9.9 ppb in the fourth monitoring event (reduction of 93% from baseline). TCE exceeds Groundwater Quality Standards in ML-7I.. 1,1,1-trichloroethane (which may be a parent or breakdown compound) was detected in all wells except ML-2S during baseline and decreased in all wells to non-detect during the fourth monitoring event except in ML-2D (decreased from 7.0 to 3.8 ppb), ML-7I (decreased from 110 to 10 ppb) which remains above Groundwater Quality Standards, and ML-7D (decreased from 250 to 15 ppb), which remains above Groundwater Quality Standards. 1,1,2-trichlorotrifluoroethane was detected during baseline in LAB-SBW-15, LAB-SBW-16, ML-2I, ML-2D, ML-7I and ML-7D. Concentrations of 1,1,2-trichlorotrifluoroethane decreased in all wells, but remain above Groundwater Quality Standards in ML-7I (84 ppb).

Breakdown Compounds:

A majority of the increases in CVOCs after injections were breakdown compounds. Specifically, cis-1,2-dichloroethene and vinyl chloride were detected in all wells and accounted for 50% to 100% of the total CVOCs detected during the first monitoring event. By the fourth monitoring event, cis-1,2-dichloroethene and vinyl chloride were only detected in five (5) of the seven (7) wells sampled ranging from 5% to 95% of the total CVOCs. Concentrations of cis-1,2-dichloroethene and vinyl chloride decreased between 87% to 100% from baseline to the fourth monitoring event. Cis-1,2-dichloroethene remains above Groundwater Quality Standards in LAB-SBW-16 (6.1 ppb), ML-2S (46 ppb), ML-2I (53 ppb), and ML-7I (190 ppb). Vinyl chloride remains above Groundwater Quality Standards in LAB-SBW-16 (2.8 ppb), ML-2S (36 ppb), ML-2I (45 ppb), ML-2D (3.3 ppb), and ML-7I (170 ppb).

It should be noted that the breakdown compound 1,1-dichloroethane decreased in all wells from baseline except LAB-SBW-15 (increased from 1.72 to 3.7 ppb), ML-2D (increased from 35 to 55 ppb) which remains above Groundwater Quality Standards. In addition, breakdown compound trans-1,2-dichloroethene was detected in only two (2) wells (LAB-SBW-16 and ML-2D) and decreased to non-detect by the fourth sampling event except in ML-2D which remains at 2.1 ppb and ML-7I which remains at 7.9 ppb and above Groundwater Quality Standards. Breakdown compound chloroethane increased in ML-2D from 2.2 to 39 ppb and ML-7D from 110 to 200 ppb.



Downgradient monitoring well GMX-MW-3 was sampled in the fourth round and the only CVOCs detected above Groundwater Quality Standards were chloroethane (76 ppb), cis-1,2-dichloroethene (220 ppb), and vinyl chloride (150 ppb). Total CVOCs decreased from baseline (476 ppb) to the fourth round (452.6 ppb) by approximately 5%.

- Concentrations of total CVOCs decreased back to below baseline in all wells by the fourth monitoring event 15 months post-injections..
- Overall percent reductions in CVOCs after 15 months ranged from approximately 15% in LAB-SBW-15 downgradient of the blast enhanced bedrock trench, to approximately 98% in ML-2I within the pneumatic injection area. CVOCs in LAB-SBW-16 downgradient of the pneumatic injection area decreased by approximately 97%. The greatest total reduction in CVOCs was in both intermediate wells; ML-2I which was reduced by approximately 6,137 ppb followed by ML-7I which was reduced by approximately 3,737 ppb.
- Between baseline and the third monitoring event, ethane and ethene increased in all wells with the exception of ML-2S and ML-7D. It should be noted that ML-7D indicated increasing ethane and ethene concentrations during the initial two (2) post injection sampling events before an apparent decrease in the last event.
- Based on the results of the pilot test performance monitoring, distribution of ZVI was achieved with both injection methods as evidenced by visual observation of ZVI and pressure buildup in surrounding wells.
- Based on the soil gas screening completed prior to, during, and after the pilot test work, the pilot test had no adverse effect on methane or VOCs in soil gas.

The following subsection provides conclusions on the overall approach (PRB with ZVI) and a comparison of the two (2) injection methods.

7.2 Conclusions and Recommendations

The following general conclusions/recommendations are provided:

- ZVI appears to be effective in reducing CVOCs in groundwater associated with the P-1 Plume. ZVI can be injected at adequate volume and dosing within bedrock Zones A and B which contain a majority of the contaminant mass in both the bedrock matrix and the groundwater matrix.
- Initial increases in the concentration of contaminants were observed with both ZVI placement approaches. The increase in total CVOCs may be due to several factors:
 - Previous drilling work indicated a potential for contaminants to be displaced from bedding planes and fractures during drilling of the bedrock. Well installations, bedrock blasting, and/or ZVI injections may have moved groundwater around the bedrock zone being monitored and sampling within a short duration after well installations, bedrock blasting, and/or ZVI injections may not have allowed the bedrock zone being monitored to equilibrate.
 - The RI data indicated that bedrock matrix samples from LAB-SBW-15 and LAB-SBW-16 contained CVOCs in the rock matrix. This contaminant mass in the bedrock within and downgradient of the PRB likely contributed to increased CVOCs initially since the PRB construction disturbed the equilibrium in the

- 24 -



bedrock and may have lead to a release of some contaminants from the bedrock matrix (particularly with the enhanced bedrock trench due to the significant increase in surface area of the rock matrix due to the blasting).

- The location of any PRB in comparison to the source should consider impacts in the bedrock matrix. The pilot test PRBs considered this during the planning phase; however, based on lower groundwater concentrations and the ability to utilize existing well distribution, the pilot test PRBs were constructed north of LAB-SBW-15 and LAB-SBW-16. CVOCs in the rock matrix downgradient of the PRB will contribute to the downgradient groundwater concentrations due to back diffusion. Based on this, consideration should be given to moving the PRB south of the pilot test location.

Method Specific Conclusions/Recommendations

The following method specific conclusions/recommendations are provided:

Blast Enhanced Bedrock Trench

- PRB Area – The blasting work assumed a 2.5 ft. radius of influence (i.e., 5-ft. diameter). Measurements/observations of the area effectively blasted could not be obtained. As such, the assumed radius is utilized (note, based on extensive experience by the blasting company the blast area appears to be typical and there is little concern for any significant variation). The ZVI was observed in all locations within the trench with the exception of ML-7D. It should be noted that the shallow monitoring intervals of ML-6S and ML-7S contained significant ZVI (over 3 ft.); however, ML-8S did not have a measurable difference for the depth to bottom. Figure 6 illustrates the estimated area of the PRB. The material was easily placed within the trench via one injection point indicating an effective ‘radius’ of influence of at least 30-ft. (note, radius for the blast enhanced bedrock trench refers to the distance the material was observed to be placed laterally within the trench and is limited to the length and width of blasted bedrock trench itself). However, based on the significant amount of ZVI observed in the shallow intervals on either side of the injection point (i.e., ML-6 and ML-7) and a lack of significant ZVI in ML-8, a more conservative radius of influence of 20 to 25 ft. would be recommended for this approach.
- PRB Thickness – The RI Report indicated a groundwater velocity of 2 to 3 ft/day. The blast enhanced bedrock trench pilot test utilized a single row of blast points with an estimated 5-ft. diameter. As such, the residence time of the water flowing through the PRB is approximately 1.7 to 2.5 days. Based on the available data, complete degradation appears to be occurring (as noted by increasing concentrations of ethane and ethene in LBA-SBW-15); however, some CVOCs were still present in LBA-SBW-15. This may be a function of inadequate residence time; however, it may also be due to contaminant mass in the bedrock matrix in the area of LBA-SBW-15. As noted above, a full-scale PRB is recommended to be completed further south of the pilot PRB. This should address the potential back diffusion issues in the area of the current PRB. In this event, LaBella would recommend that the blast enhanced



bedrock trench PRB utilize the current thickness (with additional dosing noted below). Monitoring on the downgradient side would determine if any areas require re-assessment.

- Dosing Rate – This approach utilized a dosing rate of 6% (mass of ZVI amendment to mass of bedrock). There was no ‘day-lighting’ of material observed and excessive back pressure was not incurred during the injection intervals. Although ZVI was observed in all intervals, except MW-7D, additional ZVI could likely have been placed. A full scale injection via a blast enhanced bedrock trench could utilize a higher dosing rate. Although the actual amount that could be placed may vary, for planning purposes a dosing rate of 8% or 10% should be utilized.

Pneumatic Injection

- PRB Area – The pneumatic injection work assumed a 15-ft. radius of influence for each injection point. The injection work around IP-4 and IP-5 appeared to influence the multi-level wells nearest these locations (ML-1 and ML-2); however, IP-4 did not appear to influence locations to the west (IP-3 and ML-4) to the same degree as to the east. In addition, ZVI was not observed in the intermediate and deep intervals at ML-3 (i.e., ML-3I and ML-3D) which is only 8 ft. north of IP-3. Additionally, ZVI was not observed in ML-5 intermediate interval (i.e., ML-5I). This variable influence is expected in a fractured bedrock zone. Based on this, some overlapping of intervals would be recommended for a full-scale pneumatic injection. This could include a second row of injection points off-set from the initial row.
- PRB Thickness – The RI Report indicated a groundwater velocity of 2 to 3 ft/day. The pneumatic injection PRB pilot test utilized a single row of injection points with an estimated 30-ft. diameter. As such, the residence time of the water flowing through the PRB is approximately 10 to 15 days. Based on the available data, complete degradation appears to be occurring (as noted by increasing concentrations of ethane and ethene in LAB-SBW-16); however, some CVOCs were still present in LAB-SBW-16. This may be a function of inadequate residence time; however, it may also be due to contaminant mass in the bedrock matrix in the area of LAB-SBW-16. As noted above, a full-scale PRB is recommended to be completed further south of the pilot PRB. This should address the potential back diffusion issues in the area of the current PRB. Also, as noted above, overlapping injection points are recommended to ensure a continuous PRB and if completed with an additional row, this would increase the PRB thickness. Monitoring on the downgradient side would determine if any areas require re-assessment.
- Dosing Rate – This approach utilized a dosing rate of 0.6% (mass of ZVI amendment to mass of bedrock). There was no ‘day-lighting’ of material observed and excessive back pressure was not incurred during the injection intervals. ZVI was not observed in all intervals as noted above and additional ZVI could likely have been placed. A full scale pneumatic injection could utilize a higher dosing rate. Although the actual



amount that could be placed may vary, for planning purposes a dosing rate of 1% should be utilized.

Based on the results of the pilot test, in-situ chemical reduction is effective in reducing concentrations of CVOCs in groundwater on the downgradient edge of the P-1 Plume. A Feasibility Study will be completed to evaluate a full scale remedy for the P-1 Plume area.

\\PROJECTS2\PROJECTSNZ-2\ROCHESTER, CITY\210173 FESL\REPORTS\PILOT TEST MONITORING REPORT\REVISED MARCH 2019\PILOT TEST Monitoring Report.V3.docx





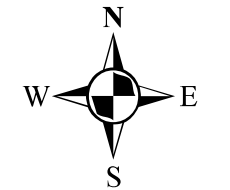
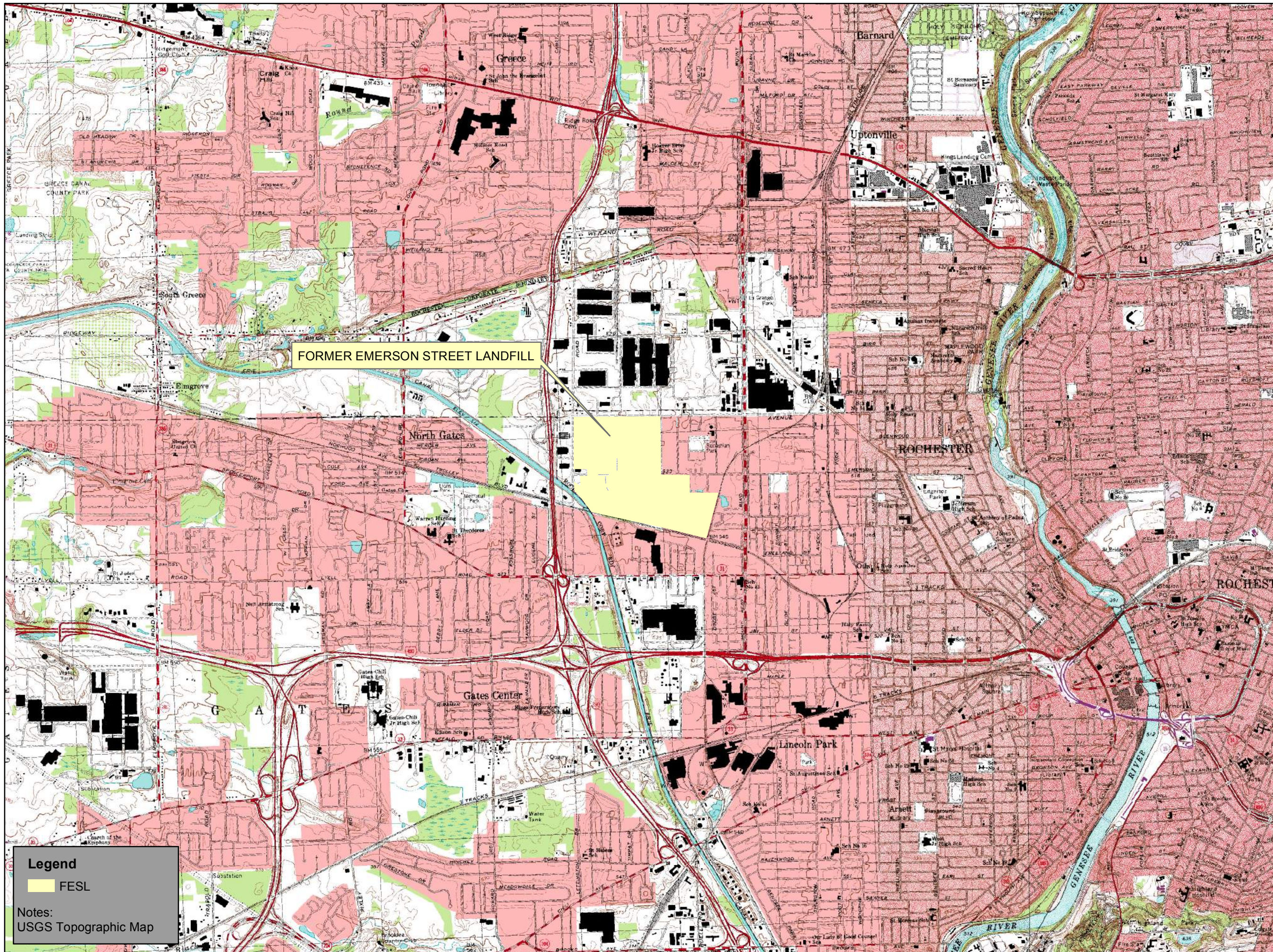
FIGURES

**FORMER EMERSON STREET
LANDFILL**

**1700 EMERSON STREET
CITY OF ROCHESTER**

P-1 PLUME PILOT TEST

FESL Site Location Map



0 1,500 3,000
Feet

1 inch = 3,000 feet
Intended to print as 11x17

[210173]

[FIGURE 1]

Legend

■ FESL

Notes:
USGS Topographic Map









**FORMER EMERSON STREET
LANDFILL**

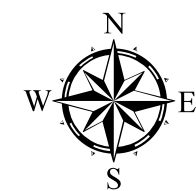
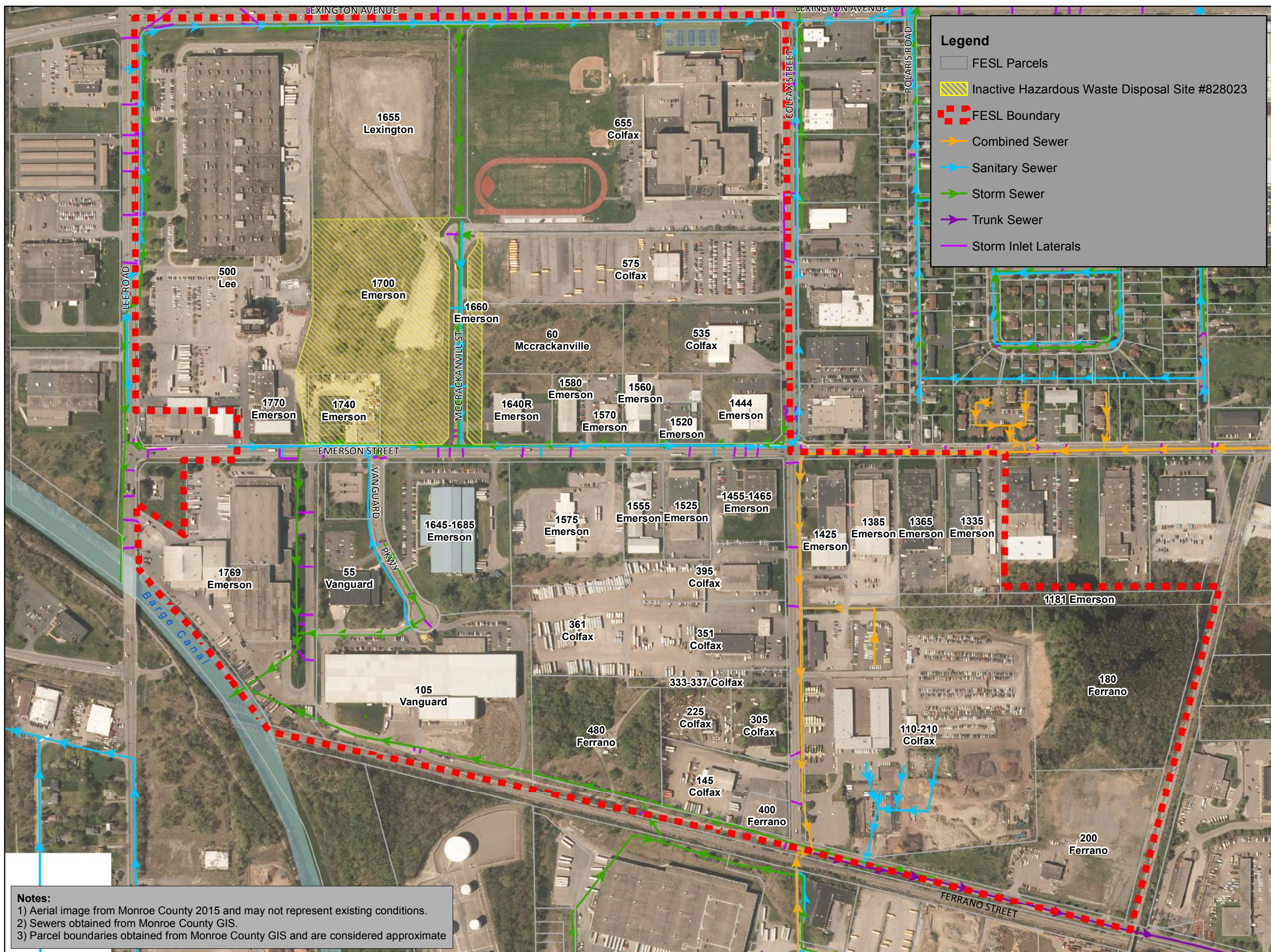
1700 EMERSON STREET
CITY OF ROCHESTER

P-1 PLUME PILOT TEST

FORMER EMERSON STREET
LANDFILL FOOTPRINT

Legend

-  FESL Parcels
-  Inactive Hazardous Waste Disposal Site #828023
-  FESL Boundary
-  Combined Sewer
-  Sanitary Sewer
-  Storm Sewer
-  Trunk Sewer
-  Storm Inlet Laterals

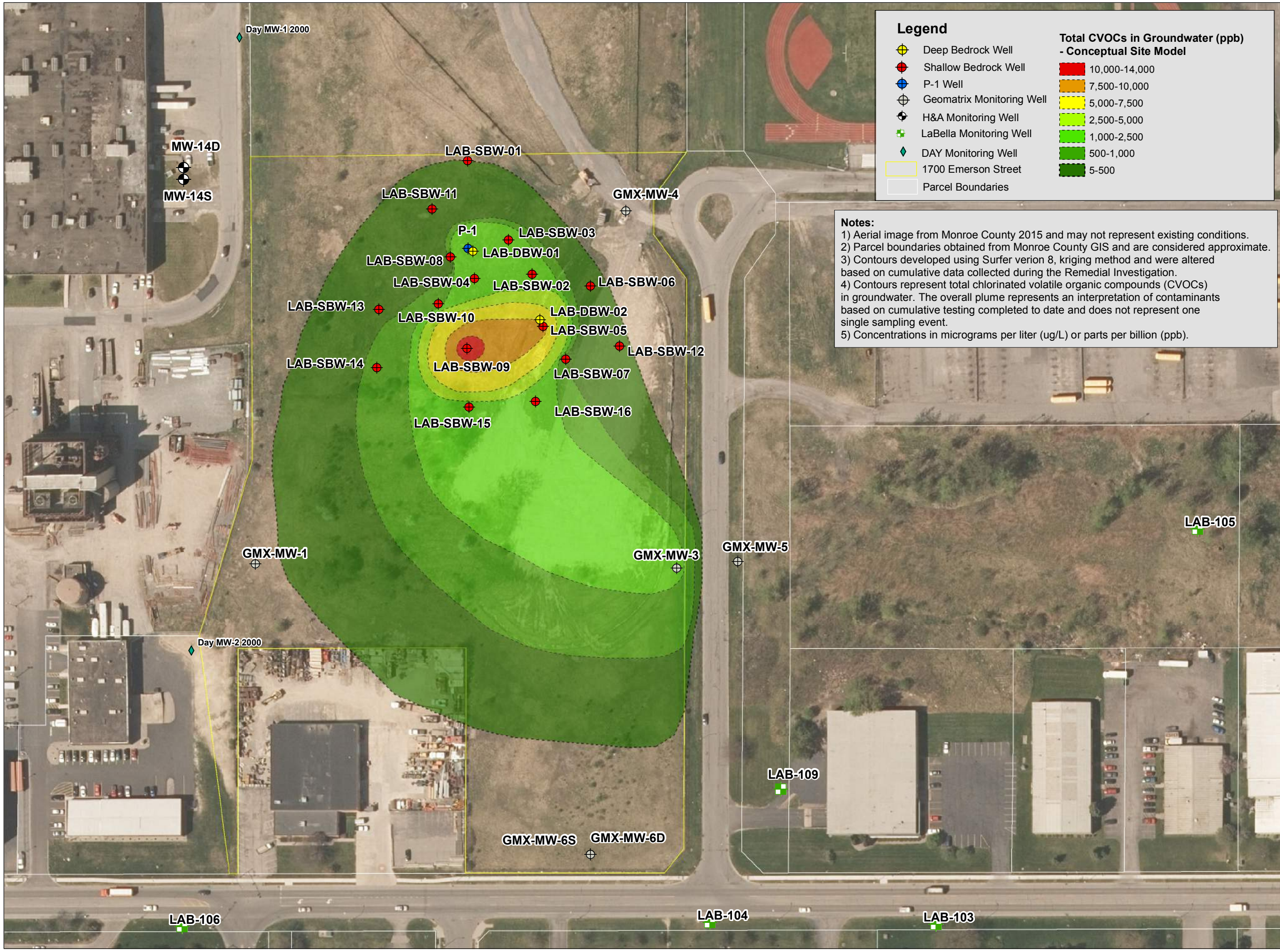


1 inch = 400 feet
Intended to print on 11x17

[210173]
[FIGURE 2]

Notes:
1) Aerial image from Monroe County 2015 and may not represent existing conditions.
2) Sewers obtained from Monroe County GIS.
3) Parcel boundaries obtained from Monroe County GIS and are considered approximate

Path: \\Projects2\Projects\N2-2\Rochester, City\210173 FESL\Drawings\Pilot Test\Pilot Test Monitoring Report Figure 3.mxd



Legend

Deep Bedrock Well	Total CVOCs in Groundwater (ppb) - Conceptual Site Model
Shallow Bedrock Well	10,000-14,000
P-1 Well	7,500-10,000
Geomatrix Monitoring Well	5,000-7,500
H&A Monitoring Well	2,500-5,000
LaBella Monitoring Well	1,000-2,500
DAY Monitoring Well	500-1,000
1700 Emerson Street	5-500
Parcel Boundaries	

Notes:

- 1) Aerial image from Monroe County 2015 and may not represent existing conditions.
- 2) Parcel boundaries obtained from Monroe County GIS and are considered approximate.
- 3) Contours developed using Surfer version 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed to date and does not represent one single sampling event.
- 5) Concentrations in micrograms per liter (ug/L) or parts per billion (ppb).



FORMER EMERSON STREET LANDFILL

**1700 EMERSON STREET
CITY OF ROCHESTER**

P-1 PLUME PILOT TEST

**P-1 PLUME
CONCEPTUAL SITE MODEL**



0 125
Feet

1 inch = 125 feet

Intended to print on 11x17

[210173]

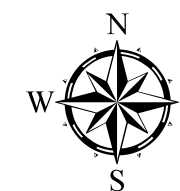
[FIGURE 3]

**FORMER EMERSON STREET
LANDFILL**

**1700 EMERSON STREET
CITY OF ROCHESTER**

P-1 PLUME PILOT TEST

Pilot Test Location

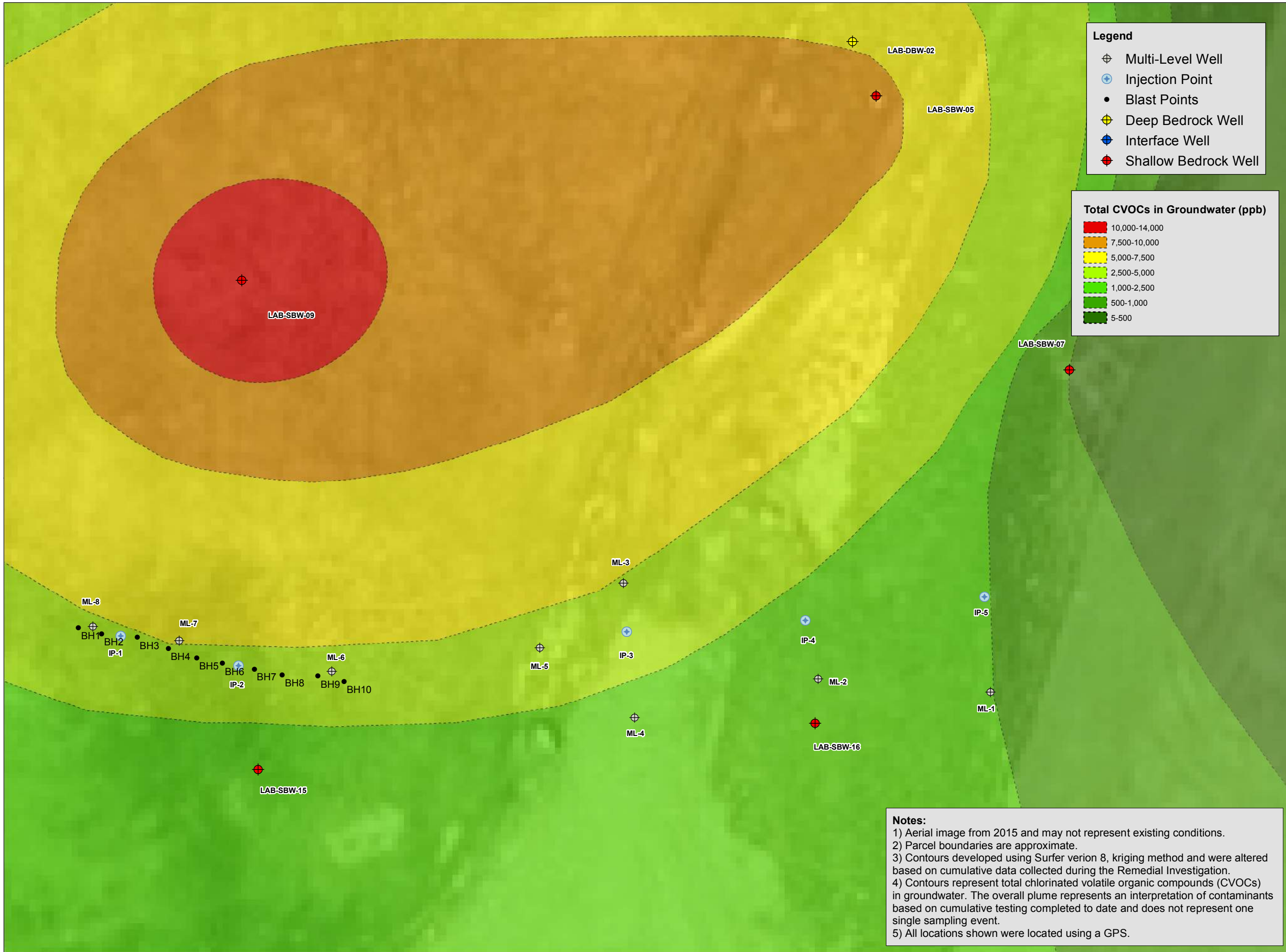


1 inch = 15 feet

Intended to print on 11x17

[210173]

[FIGURE 4]



Legend

- ⊕ Multi-Level Well
- ⊕ Injection Point
- Blast Points
- ⊕ Deep Bedrock Well
- ⊕ Interface Well
- ⊕ Shallow Bedrock Well

Total CVOCs in Groundwater (ppb)

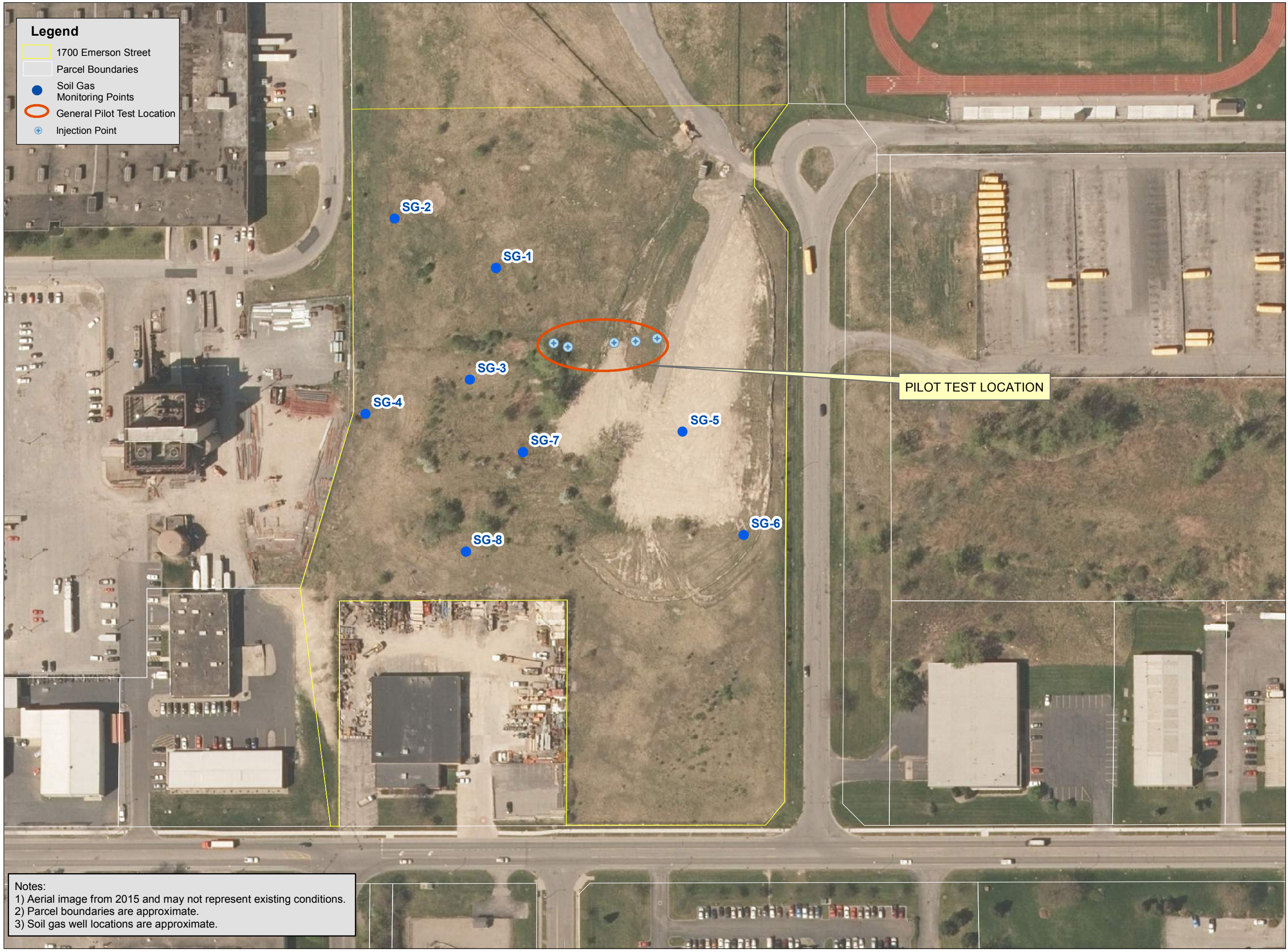
- 10,000-14,000
- 7,500-10,000
- 5,000-7,500
- 2,500-5,000
- 1,000-2,500
- 500-1,000
- 5-500

Notes:

- 1) Aerial image from 2015 and may not represent existing conditions.
- 2) Parcel boundaries are approximate.
- 3) Contours developed using Surfer verion 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed to date and does not represent one single sampling event.
- 5) All locations shown were located using a GPS.

Legend

- 1700 Emerson Street
- Parcel Boundaries
- Soil Gas Monitoring Points
- General Pilot Test Location
- ⊕ Injection Point

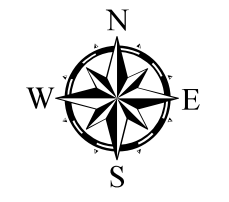


**FORMER EMERSON STREET
LANDFILL**

**1700 EMERSON STREET
CITY OF ROCHESTER**

P-1 PLUME PILOT TEST

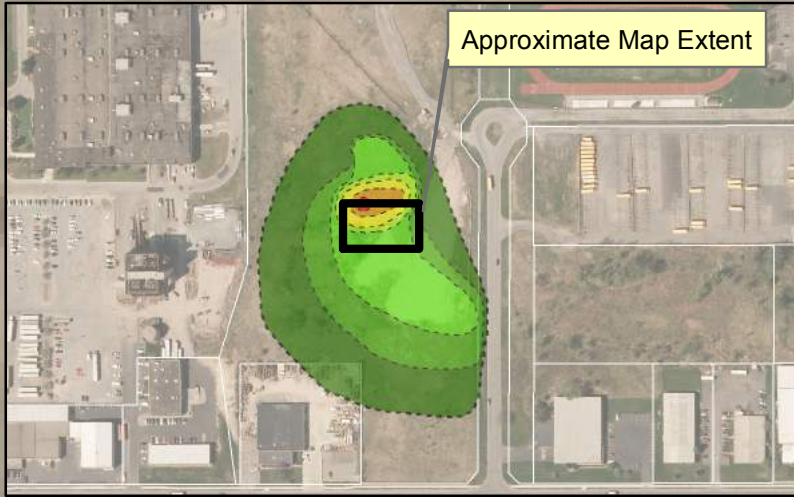
**Soil Gas
Monitoring Points**



0 125
Feet
1 inch = 125 feet
Intended to print on 11x17

[210173]
[FIGURE 5]

Notes:
 1) Aerial image from 2015 and may not represent existing conditions.
 2) Parcel boundaries are approximate.
 3) Soil gas well locations are approximate.



B-SBW-09

Legend

- ⊕ Multi-Level Well
- ⊕ Injection Point
- Blast Points
- - - Pneumatic PRB (shallow)
- - - Pneumatic PRB (intermediate)
- - - Pneumatic PRB (deep)
- - - Blast-Enhanced Bedrock Trench PRB (shallow and intermediate)
- - - Blast-Enhanced Bedrock Trench PRB (deep)
- ⊕ Shallow Bedrock Well

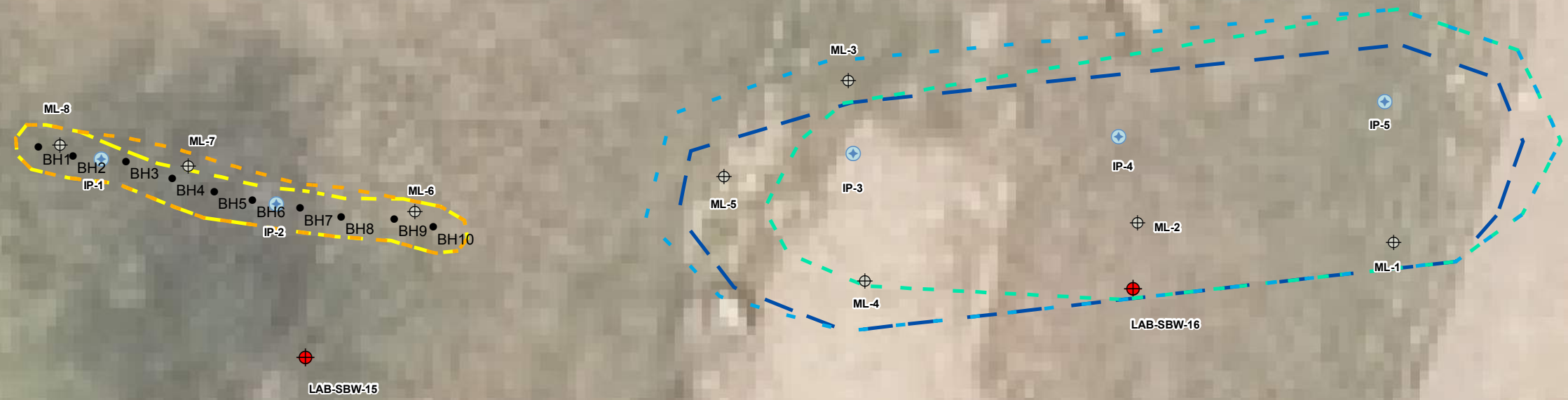


FORMER EMERSON STREET LANDFILL

1700 EMERSON STREET
CITY OF ROCHESTER

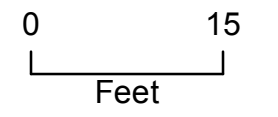
P-1 PLUME PILOT TEST

Inferred Permeable Reactive Barriers



LAB-SBW-15

LAB-SBW-16



1 inch = 15 feet

Intended to print on 11x17

Notes:

- 1) Aerial image from 2015 and may not represent existing conditions.
- 2) Parcel boundaries are approximate.
- 3) Contours developed using Surfer version 8, kriging method and were altered based on cumulative data collected during the Remedial Investigation.
- 4) Contours represent total chlorinated volatile organic compounds (CVOCs) in groundwater. The overall plume represents an interpretation of contaminants based on cumulative testing completed to date and does not represent one single sampling event.
- 5) All locations shown were located using a GPS.
- 6) PRB extents are estimated based on visual observations of ZVI.

[210173]

[FIGURE 6]



TABLES

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 1
Detected Volatile Organic Compounds (VOCs) in Groundwater
All Results in Micrograms Per Liter (ug/L) or about Parts per Billion (PPB)

Sample Location		LAB-SBW-15													
Ground Surface Elevation (Feet)		544.55													
Sample Elevation Interval (Feet)		516.55-518.55			508.05-510.05			500.75-502.75			505.91-515.91**				
Sample Depth Below Grade (Feet)		26-28			34.5-36.5			41.8-43.8			29-39**				
Sample Method		PDB						Low-flow							
Event		Baseline						Post Injection 1		Post Injection 2		Post Injection 3		Post Injection 4	
Sample Date		5/15/2017						1/2/2018		2/21/2018		6/13/2018		2/26/2019	
Chlorinated VOCs	Part 703 Groundwater Quality Standards ug/L (ppb)														
Chloroethane	5	80.6	J3	40.7	J3	5.00	UJ3	240		110		420		69	
Chloromethane	NL	2.50	UJ4	2.50	UJ4	2.50	UJ4	100	U	5.0	U	8.0	U	4.0	U
Chlorobenzene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
Chloroform	7	5.00	U	5.00	U	5.00	U	100	U	5.0	U	8.0	U	4.0	U
cis-1,2-Dichloroethene	5	4.99		4.77		11.7		3600		10		8.0	U	4.0	U
Dichlorodifluoromethane	5	5.00	UJ4	5.00	UJ4	5.00	UJ4	100	U	5.0	U	8.0	U	4.0	U
1,1-Dichloroethene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	15		4.0	U
1,1-Dichloroethane	5	1.72		1.55		3.20		73	J	9.4		8.0	U	3.7	J
1,2-Dichloroethane	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
1,4-Dichlorobenzene	3	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
Methylene chloride	5	5.00	U	5.00	U	5.00	U	100	U	5.0	U	8.0	U	5.1	J
1,1,1-Trichloroethane	5	1.00	U	1.00	U	1.55		100	U	5.0	U	8.0	U	4.0	U
1,1,2-Trichlorotrifluoroethane	5	2.21		3.16		3.32		100	U	5.0	U	8.0	U	4.0	U
1,1,2-Trichloroethane	1	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
Tetrachloroethene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
trans-1,2-Dichloroethene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
Trichloroethene	5	1.00	UJ	1.00	UJ	1.00	UJ	100	U	5.0	U	8.0	U	4.0	U
Vinyl chloride	2	1.64	J3 J4	1.58	J3 J4	2.65	J3 J4	1600		13		8.0	U	4.0	U
TOTAL CVOCs	NA	91.16		51.76		22.42		5513		142.4		435		77.8	
BTEX VOCs															
Benzene	1	3.38		1.45	U	1.00	U	48	J	8.6		20		4.3	U
Toluene	5	1.32		1.00	U	1.00	U	100	U	8.1		8.0	U	2.3	J
Ethyl Benzene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
m/p-Xylene	5	2.00	U	2.00	U	2.00	U			8.7	J	9.8	J	5.6	J
o-Xylene	5	1.00	U	1.00	U	1.00	U	200	U						
TOTAL BTEX	NA	4.70		ND		ND		48		25.4		29.8		7.9	
Other VOCs															
Acetone	50	50.0	U	50.0	U	50.0	U	1000	U	50	U	8.0	U	40.0	U
1,4-Dioxane	NL	100	UJ	100	UJ	100	UJ	NA		NA		8.0	U	NA	
Carbon Disulfide	60	1.31	J	1.91	J	1.00	UJ	100	U	5.0	U	8.0	U	4.0	U
Cyclohexane	NL	1.00	U	1.00	U	1.00	U	100	U	5.0	U	1.6	J	4.0	U
Isopropylbenzene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
Methyl tert-butyl ether	10	1.00	U	1.00	U	1.00	U	100	U	2.7	J	9.4		1.6	J
Methylcyclohexane	NL	1.00	U	1.00	U	1.00	U	100	U	6.9		12		2.6	J
Styrene	5	1.00	U	1.00	U	1.00	U	100	U	5.0	U	8.0	U	4.0	U
1,3,5-Trimethylbenzene	5	1.00	U	1.00	U	1.00	U	NA		NA		8.0	U	NA	
1,2,4-Trimethylbenzene	5	1.00	U	1.00	U	1.00	U	NA		NA		8.0	U	NA	
2-Butanone	50	10.0	U	10.0	U	10.0	U	1000	U	15	J	80.0	U	40	U
2-Hexanone	50	10.0	U	10.0	U	10.0	U	500	U	25	U	40.0	U	20	U
4-Methyl-2-pentanone	NL	10.0	U	10.0	U	10.0	U	500	U	25	U	8.0	U	20	U
n-Propylbenzene	5	1.00	U	1.00	U	1.00	U	NA		NA		8.0	U	NA	
Naphthalene	10	5.00	U	5.00	U	5.00	U	NA		NA		8.0	U	NA	
n-Butylbenzene	5	1.00	U	1.00	U	1.00	U	NA		NA		8.0	U	NA	
sec-Butylbenzene	5	1.00	U	1.00	U	1.00	U	NA		NA		8.0	U	NA	
VOC TICs	NA	None found		None found		None found		None found		None found		None found		None found	
TOTAL VOCs	NA	97.17		53.67		22.42		5,561		192.4		487.8		89.9	
TOTAL CONCENTRATION (VOCs + TICs)		97.17		53.67		22.42		5,561		192.4		487.8		89.9	

Legend:
NL - Not Listed
NA indicates not applicable
Total VOCs - denotes summation of all detected compounds not including TICs (i.e., constituents below the detection limits are assumed to be zero).
TICs- Tentatively Indicated Compounds
Yellow highlighted values exceed NYSDEC Part 703 Groundwater Quality Standards
U - Indicates the compound was analyzed for as part of the standard list but not detected, with the detection limit shown as the value.
J - Indicates an estimated value
T- Result is a tentatively identified compound (TIC) and an estimated value
N- Presumptive evidence of material
F1- MS and/or MSD Recovery is outside acceptance limits.
** - Indicates a range approximately 5 feet above and below depth to top of pump during sampling
ML-7S not sampled during Post Injection Event 2 or 3. ML-2S not sampled during Post Injection Event 3. Wells were dry
Red text indicates a change made in the DUSR
R indicates the result was rejected in the DUSR

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 1
Detected Volatile Organic Compounds (VOCs) in Groundwater
All Results in Micrograms Per Liter (ug/L) or about Parts per Billion (PPB)

Sample Location		LAB-SBW-16													
Ground Surface Elevation (Feet)		548.08													
Sample Elevation Interval (Feet)		516.58-518.58	508.08-510.08	500.18-502.18	493.27-503.27**										
Sample Depth Below Grade (Feet)		29.5-31.5	38-40	45.9-47.9	42-52**										
Sample Method		PDB				Low-flow									
Event		Baseline				Post Injection 1		Post Injection 2		Post Injection 3		Post Injection 4			
Sample Date		5/15/2017				1/2/2018		2/21/2018		6/13/2018		2/26/2019			
Chlorinated VOCs	Part 703 Groundwater Quality Standards ug/L (ppb)														
Chloroethane	5	7.85	J3	11.5		6.43		9.4	J	10	U	3.3	J	0.89	J
Chloromethane	NL	2.50	U J4	2.50	U	2.50	U	10	U	10	U	5.0	U	2.0	U
Chlorobenzene	5	1.00	UJ	1.00	U	1.00	U	10	U	10	U	5.0	U	2.0	U
Chloroform	7	5.00	UJ	5.00	U	5.00	U	10	U	10	U	5.0	U	2.0	U
cis-1,2-Dichloroethene	5	180	J	185		18.4		710		74		140	J	6.1	
Dichlorodifluoromethane	5	5.00	U J4	5.00	U	5.00	U	10	U	10	U	5.0	UJ	2.0	U
1,1-Dichloroethene	5	1.15	J	1.08	U	1.00	U	10	U	10	U	35	J	2.0	U
1,1-Dichloroethane	5	63.7	J	72.0		52.2		53		29		5.0	UJ	2.7	
1,2-Dichloroethane	5	1.00	UJ	1.00	U	1.00	U	10	U	10	U	5.0	UJ	2.0	U
1,4-Dichlorobenzene	3	1.00	UJ	1.00	U	1.00	U	10	U	10	U	5.0	UJ	2.0	U
Methylene chloride	5	5.00	UJ	5.00	U J0	5.00	U J0	10	U	10	U	5.0	U	2.0	J
1,1,1-Trichloroethane	5	30.4	J	35.6		2.95		21		10	U	19	J	2.0	U
1,1,2-Trichlorotrifluoroethane	5	78.0	J	84.4		1.34		20		10	U	16	J	2.0	U
1,1,2-Trichloroethane	1	1.00	UJ	1.00	U J4	1.00	U J4	10	U	10	U	5.0	UJ	2.0	U
Tetrachloroethene	5	1.01	J	1.18		1.00	U	10	U	10	U	5.0	UJ	2.0	U
trans-1,2-Dichloroethene	5	7.22	J	7.04		1.00	U	10	U	10	U	5.0	UJ	2.0	U
Trichloroethene	5	6.94	J	7.85		3.02		5.3	J	10	U	5.0	UJ	2.0	U
Vinyl chloride	2	98.9	J3 J4	187		17.8		440		47		84	J	2.8	
TOTAL CVOCs	NA	475.17		591.6		102.14		1258.7		150		297.3		14.5	
BTEX VOCs															
Benzene	1	12.1	J	12.7		1.00	U	15		21		23	J	4.7	
Toluene	5	4.56	J	6.85		1.00	U	11		15		10	J	1.8	J
Ethyl Benzene	5	3.38	J	4.24		1.00	U	7.8	J	17		12	J	2.1	
m/p-Xylene	5	5.12	J	6.64		2.00	U	260		250		160	J	16	
o-Xylene	5	3.44	J	4.61		1.00	U								
TOTAL BTEX	NA	28.6		35.04		ND		293.8		303		205		24.6	
Other VOCs															
Acetone	50	50.0	UJ	50.0	U	50.0	U	100	U	100	UJ	15	J	16	J
1,4-Dioxane	NL	100	UJ	100	UJ	100	UJ	NA		NA		5.0	U	NA	
Carbon Disulfide	60	1.00	UJ	1.00	U	1.34		10	U	10	U	5.0	U	2.0	U
Cyclohexane	NL	1.00	UJ	1.00	U	1.00	U	10	U	10	U	5.0	UJ	2.0	U
Isopropylbenzene	5	1.00	UJ	1.00	U	1.00	U	22		37		35	J	5.7	
Methyl tert-butyl ether	10	1.00	UJ	1.00	U	1.00	U	20		42		55	J	26	
Methylcyclohexane	NL	1.00	UJ	1.00	U	1.00	U	10	U	10	U	1.3	J	2.0	U
Styrene	5	1.00	UJ	1.00	U	1.00	U	10	U	10	U	5.0	UJ	2.0	U
1,3,5-Trimethylbenzene	5	1.00	UJ	1.00	U	1.00	U	NA		NA		5.0	U	NA	
1,2,4-Trimethylbenzene	5	1.00	UJ	1.00	U	1.00	U	NA		NA		5.0	U	NA	
2-Butanone	50	10.0	UJ	10.0	U	10.0	U	100	U	100	UJ	50.0	UJ	7.6	J
2-Hexanone	50	10.0	UJ	10.0	U	10.0	U	50	U	50	UJ	25.0	UJ	10.0	U
4-Methyl-2-pentanone	NL	10.0	UJ	10.0	U J3	10.0	U J3	50	U	50	U	5.0	UJ	41	
n-Propylbenzene	5	1.00	UJ	1.00	U	1.00	U	NA		NA		5.0	U	NA	
Naphthalene	10	5.00	UJ	5.00	U J0	5.00	U J0	NA		NA		5.0	U	NA	
n-Butylbenzene	5	1.00	UJ	1.00	U	1.00	U	NA		NA		5.0	U	NA	
sec-Butylbenzene	5	1.00	UJ	1.00	U	1.00	U	NA		NA		5.0	U	NA	
VOC TICs	NA	None found		None found		None found		None found		190	YJN	163		8.4	TJ
TOTAL VOCs	NA	503.77		626.61		103.48		1,594.5		532.0		608.6		135.4	
TOTAL CONCENTRATION (VOCs + TICs)		503.77		626.61		103.48		1,594.5		722.0		771.6		143.8	

Legend:
 NL - Not Listed
 NA indicates not applicable
 Total VOCs - denotes summation of all detected compounds not including TICs (i.e., constituents below the detection limits are assumed to be zero).
 TICs- Tentatively Indicated Compounds
 Yellow highlighted values exceed NYSDEC TOGS 1.1.1 Water Quality Standards
 U - Indicates the compound was analyzed for as part of the standard list but not detected, with the detection limit shown as the value.
 J - Indicates an estimated value
 T- Result is a tentatively identified compound (TIC) and an estimated value
 N- Presumptive evidence of material
 F1- MS and/or MSD Recovery is outside acceptance limits.
 ** - Indicates a range approximately 5 feet above and below depth to top of pump during sampling
 ML-7S not sampled during Post Injection Event 2 or 3. ML-2S not sampled during Post Injection Event 3. Wells were dry
 Red text indicates a change made in the DUSR
 R indicates the result was rejected in the DUSR

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 1
Detected Volatile Organic Compounds (VOCs) in Groundwater
All Results in Micrograms Per Liter (ug/L) or about Parts per Billion (PPB)

Sample Location		ML-2S				ML-2I					ML-2D				
Ground Surface Elevation (Feet)		548.3				548.3					548.3				
Sample Elevation Interval (Feet)		518.1-521.1				511.2-516.2					505.3-510.3				
Sample Depth Below Grade (Feet)		27.25-30.25				32.15-37.15					38.0-43.0				
Sample Method		Low-flow				Low-flow					Low-flow				
Event		Baseline	Post Injection 1	Post Injection 2	Post Injection 4	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Post Injection 4	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Post Injection 4
Sample Date		10/19/2017	1/2/2018	2/21/2018	2/27/2019	10/18/2017	1/3/2018	2/21/2018	6/15/2018	2/27/2019	10/18/2017	1/3/2018	2/21/2018	6/15/2018	2/27/2019
Chlorinated VOCs	TOGS 1.1.1 Water Quality Standards ug/L (ppb)														
Chloroethane	5	4.6 J	10 U	10 U	4.0 U	R	100 U	38 J	5.4	5.0 U	2.2 J	15	5.0 U	10 J	39
Chloromethane	NL	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	5 UJ	2.0 U
Chlorobenzene	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	5 UJ	2.0 U
Chloroform	7	4.1 J	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	1.1 J	2.0 U	5.0 U	5 UJ	2.0 U
cis-1,2-Dichloroethene	5	160 J	560 J	10 U	46	3000 J	6700	1700	14	53	71 J	150	130	5 UJ	2.6
Dichlorodifluoromethane	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	5 UJ	2.0 U
1,1-Dichloroethene	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	1.0 J	2.2	5.0 U	5 UJ	2.0 U
1,1-Dichloroethane	5	33 J	10 U	10 U	4.0 U	870 J	2200	1000	63	8.4	35 J	140	45	49 J	55
1,2-Dichloroethane	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	5 UJ	2.0 U
1,4-Dichlorobenzene	3	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	5 UJ	2.0 U
Methylene chloride	5	R	10 U	10 U	4.3 J	R	100 U	40 U	5 U	6.2 J	R	2.0 U	5.0 U	5 UJ	2.0 J
1,1,1-Trichloroethane	5	R	10 U	10 U	4.0 U	480 J	100 U	40 U	5 U	5.0 U	7.0 J	35	5.0 U	6.1 J	3.8
1,1,2-Trichlorotrifluoroethane	5	R	10 U	10 U	4.0 U	650 J	140	40 U	5 U	5.0 U	4.3 J	24	5.0 U	2.8 J	1.3 J
1,1,2-Trichloroethane	1	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	5 UJ	2.0 U
Tetrachloroethene	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	0.91 J	2.0 U	5.0 U	5 UJ	2.0 U
trans-1,2-Dichloroethene	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	4.1	5.0 U	5 UJ	2.1
Trichloroethene	5	R	10 U	10 U	4.0 U	260 J	100 U	40 U	5 U	5.0 U	11 J	16	2.9 J	5 UJ	1.0 J
Vinyl chloride	2	490 J	220	10 U	36	990 J	2300	430	5 U	45	15 J	130	83	5 UJ	3.3
TOTAL CVOCs	NA	691.7	780	ND	86	6250	11340	3168	82	113	148.51	516.3	260.9	67.9	110.1
BTEX VOCs															
Benzene	1	6.0 J	25	24	20	R	100 U	38 J	25	22	R	2.3	23	21 J	5.5
Toluene	5	R	10 U	10 U	2.6 J	170 J	510	290	23	12	1.4 J	2.0	18	9.5 J	2.0
Ethyl Benzene	5	R	13	17	6.9	R	100 U	39 J	13	11	R	2.0 U	16	11 J	2.0 U
m/p-Xylene	5	R	620	F1 430	77	R	110 J	210	110	73	R	1.6 J	210	94 J	3.0 J
o-Xylene	5	R				R					R				
TOTAL BTEX	NA	6.0	658	471	107	170	620	577	171	118	1.4	5.9	267	135.5	10.5
Other VOCs															
Acetone	50	33 J	100 U	100 U	12 J	R	1000 U	400 U	50 U	50 U	R	10 J	50 U	50 U	8.7 J
1,4-Dioxane	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	60	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	2 UJ	2.0 U
Cyclohexane	NL	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	2.0 J	R	2.0 U	5.0 U	10 UJ	2.0 U
Isopropylbenzene	5	R	46	54	34	R	100 U	40 U	25	28	R	2.0 U	37	24 J	2.0 U
Methyl tert-butyl ether	10	R	39	56	45	R	100 U	20 J	47	41	R	0.87 J	51	33 J	2.1
Methylcyclohexane	NL	R	2.4 J	10 U	0.70 J	R	100 U	40 U	1.4 J	2.4 J	R	0.36 J	2.0 J	1.1 J	2.0 U
Styrene	5	R	10 U	10 U	4.0 U	R	100 U	40 U	5 U	5.0 U	R	2.0 U	5.0 U	10 UJ	2.0 U
1,3,5-Trimethylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50	R	100 U	100 U	40 U	R	1000 U	400 UJ	57	12 J	R	2.8 J	50 U	19 J	20 U
2-Hexanone	50	R	50 U	50 U	20 U	R	500 U	200 UJ	25	25 U	R	10 U	25 U	10 UJ	10 U
4-Methyl-2-pentanone	NL	R	50 U	50 U	34	R	500 U	200 U	25 U	83	R	10 U	25 U	10 UJ	10 U
n-Propylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOC TICs	NA	30 TJ	None found	304 TJN	11 TJN	None found	590 TJN	530 TJN	80 TJN	82 TJN	None found	9.2	156 TJN	89 TJN	5.9 TJN
TOTAL VOCs	NA	730.7	1,525.4	581.0	318.5	6,420	11,960	3,765	383.8	399.0	149.91	536.2	617.9	280.5	131.4
TOTAL CONCENTRATION (VOCs + TICs)		760.7	1,525.4	885.0	329.5	6,420	12,550	4,295	463.8	481.0	149.91	545.4	773.9	369.5	137.3

Legend:
 NL - Not Listed
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 Yellow highlighted values exceed NYSDEC TOGS 1.1.1 Water Quality Standards
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 F1- MS and/or MSD Recovery is outside acceptance limits.
 ** - Indicates a range approximately 5 feet above and below depth to top of pump during sampling
 ML-2S not sampled during Post Injection Event 2 or 3. ML-2S not sampled during Post Injection Event 3. Wells were dry
 Red text indicates a change made in the DUSR
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Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 1
Detected Volatile Organic Compounds (VOCs) in Groundwater
All Results in Micrograms Per Liter (ug/L) or about Parts per Billion (PPB)

Sample Location		ML-75		ML-71					ML-7D					GMX-MW-3		
Ground Surface Elevation (Feet)		545.5		545.5					545.5					543.89		
Sample Elevation Interval (Feet)		517.3-520.3		510.2-515.2					503.0-508.0					513.39-518.89	516.89-518.89	513.39-518.89
Sample Depth Below Grade (Feet)		25.25-28.25		30.3-35.3					37.5-42.5					25-30.5	25-27	25-30.5
Sample Method		Low-flow		Low-flow					Low-flow					Low Flow	PDB	Low-flow
Event		Baseline	Post Injection 1	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Post Injection 4	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Post Injection 4	Baseline	Baseline	Post Injection 4
Sample Date		10/19/2017	1/9/2018	10/19/2017	1/8/2018	2/21/2018	6/14/2018	2/26/2019	10/20/2017	1/8/2018	2/21/2018	6/14/2018	2/26/2019	3/20/2017	5/15/2017	2/27/2019
Chlorinated VOCs	TOGS 1.1.1 Water Quality Standards ug/L (ppb)															
Chloroethane	5	R	0.80 J	170 J	200 U	72	50	78	110 J	120	100	27	200	156	145	76
Chloromethane	NL	R	1.0 U	R	200 UJ	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	12.5 U	5.0 U
Chlorobenzene	5	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
Chloroform	7	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
cis-1,2-Dichloroethene	5	R	3.0	2800 J	11000	2900	560	190	1000 J	570	20	58	5.0 U	164	751	220 D
Dichlorodifluoromethane	5	R	1.0 U	R	200 U	40 U	22	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	25.0 UJ	5.0 U
1,1-Dichloroethene	5	R	1.0 U	R	200 U	40 U	20 U	5.0 U	31 J	25	10 U	5 U	5.0 U	10.0 U	5.00 U	5.0 U
1,1-Dichloroethane	5	R	1.0 U	370 J	1600	680	460	220	520 J	560	420	170	46	2.9	5.00 U	0.82 J
1,2-Dichloroethane	5	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 UJ	5.0 U
1,4-Dichlorobenzene	3	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
Methylene chloride	5	R	3.2 J	R	200 U	38 J	20 U	4.9 J	R	10 U	10 U	5 U	5.8 J	1.0 U	25.0 U	4.5 J
1,1,1-Trichloroethane	5	R	1.0 U	110 J	200 U	40 U	20 U	10	250 J	150	120	66	15	1.0 U	5.00 U	5.0 U
1,1,1,2-Trichlorotrifluoroethane	5	R	1.0 U	380 J	310 F2	130	41	84	190 J	67	24	6.4	2.8 J	1.0 U	5.00 U	5.0 U
1,1,2-Trichloroethane	1	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
Tetrachloroethene	5	R	1.0 U	35 J	200 U	40 U	20 U	2.9 J	12 J	3.9 J	10 U	5 U	5.0 U	10.0 U	5.00 U	5.0 U
trans-1,2-Dichloroethene	5	R	1.0 U	R	200 U	40 U	20 U	7.9 J	R	10 U	10 U	5 U	5.0 U	3.4	5.00 U	1.3
Trichloroethene	5	R	1.0 U	140 J	200 U	40 U	20 U	9.9	100 J	41	9.8 J	14	5.0 U	10.0 U	5.00 UJ	5.0 U
Vinyl chloride	2	R	1.0 U	510 J	2900 J	870	360	170	230 J	380	19	16	5.0 U	150	305	150 D
TOTAL CVOCs	NA	ND	7.0	4,515	15,810	4,690	1,493	778	2,443	1,917	712.8	357.4	269.6	476	1201.00	452.6
BTEX VOCs																
Benzene	1	18 J	3.3	59 J	200 U	38 J	23	20	50 J	33	25.0	7.7	9.4	23.3	17.0	12
Toluene	5	R	1.5	75 J	280 F2	160	90	85	33 J	16	17	5 U	5.0 U	3.3	7.64	3.1 J
Ethyl Benzene	5	R	0.96 J	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
m/p-Xylene	5	8.8 J	4.6	R	400 U	80 U	40 U	7.8 J	R	400 U	20 U	10 U	10 U	3.6	10.0 U	0.71 J
o-Xylene	5	R		R	400 U	80 U	40 U	7.8 J	R	400 U	20 U	10 U	10 U	2.4	5.00 U	
TOTAL BTEX	NA	26.8	10.36	134	280	198	113	113	83	49	42	7.7	9.4	32.60	24.64	15.81
Other VOCs																
Acetone	50	58 J	210 J	R	2000 UJ	400 U	200 U	50 U	61 J	43 J	100 U	26 J	50 U	10.0 U	250 UJ	3.0 J
1,4-Dioxane	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500 UJ	NA
Carbon Disulfide	60	R	1.3	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
Cyclohexane	NL	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	1.3 J
Isopropylbenzene	5	R	2.9 J	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	6.44	5.0 U
Methyl tert-butyl ether	10	R	0.36 J	R	200 U	40 U	20 U	1.4 J	R	4.6 J	5.7 J	1.7 J	1.7 J	106	8.17 J	54
Methylcyclohexane	NL	R	0.35 J	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	1.1 J	1.0 U	5.00 U	1.6 J
Styrene	5	R	1.0 U	R	200 U	40 U	20 U	5.0 U	R	10 U	10 U	5 U	5.0 U	1.0 U	5.00 U	5.0 U
1,3,5-Trimethylbenzene	5	NA	NA U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	5.00 U	NA
1,2,4-Trimethylbenzene	5	NA	NA U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	5.00 U	NA
2-Butanone	50	R	420 J	R	2000 U	400 U	200 U	11 J*	R	55 J	61 J	12 J	50 U	1.0 U	50.0 UJ	50 U
2-Hexanone	50	R	5.0 U	R	1000 U	200 U	100 U	25 U	R	50 U	50 U	25 U	25 U	1.0 U	50.0 U	25 U
4-Methyl-2-pentanone	NL	R	4.0 J	R	1000 U	200 U	100 U	25 U	R	50 U	50 U	25 U	25 U	1.0 U	50.0 U	25 U
n-Propylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5	5.00 U	NA
Naphthalene	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0 U	25.0 U	NA
n-Butylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	5.00 U	NA
sec-Butylbenzene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0	5.00 U	NA
VOC TICs	NA	64 TJ	783.3	None found	630 TJ	450 TJN	None found	140 TJN	None found	97 TJN	None found	54 TJN	13 TJN	None found	None found	15.9 TJN
TOTAL VOCs	NA	84.8	656.3	4,649	16,090	4,888	1,606	903	2,587	2,068.5	821.5	404.8	281.8	620.4	1,232.08	528.3
TOTAL CONCENTRATION (VOCs + TICs)		148.8	1,439.6	4,649	16,720	5,338	1,606	1,043	2,587	2,165.5	821.5	458.8	294.8	620.4	1,232.08	544.2

Legend:
NL - Not Listed
NA indicates not applicable
Total VOCs - denotes summation of all detected compounds not including TICs (i.e., constituents below the detection limits are assumed to be zero).
TICs- Tentatively Indicated Compounds
Yellow highlighted values exceed NYSDEC TOGS 1.1.1 Water Quality Standards
U - Indicates the compound was analyzed for as part of the standard list but not detected, with the detection limit shown as the value.
J - Indicates an estimated value
T- Result is a tentatively identified compound (TIC) and an estimated value
N- Presumptive evidence of material
F1- MS and/or MSD Recovery is outside acceptance limits.
** - Indicates a range approximately 5 feet above and below depth to top of pump during sampling
ML-75 not sampled during Post Injection Event 2 or 3. ML-25 not sampled during Post Injection Event 3. Wells were dry
Red text indicates a change made in the DUSR
R indicates the result was rejected in the DUSR

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 1
Detected Volatile Organic Compounds (VOCs) in Groundwater
All Results in Micrograms Per Liter (ug/L) or about Parts per Billion (PPB)

Sample Location	Blind Dupe 1 (LAB-SBW-16)	Blind Dupe 2 (LAB-SBW-16)	Blind Dupe 3 (LAB-SBW-16)	Duplicate (ML-21)	Dupe (LAB-SBW-15)	Dupe 2 (ML-71)	Dupe (LAB-SBW-15)	Dupe (ML-2D)	DUPE (ML-7D)	DUPE (LAB-SBW-16)	DUPE (ML-71)	
Ground Surface Elevation (Feet)	548.08	548.08	548.08	548.3	544.55	545.5	544.55	548.3	545.5	548.08	545.5	
Sample Elevation Interval (Feet)	516.58-518.58	508.08-510.08	500.18-502.18	511.2-516.2	505.91-515.91**	510.2-515.2	505.91-515.91**	505.3-510.3	503.0-508.0	500.18-502.18	510.2-515.2	
Sample Depth Below Grade (Feet)	29.5-31.5	38-40	45.9-47.9	32.15-37.15	29-39**	30.3-35.3	29-39**	38.0-43.0	37.5-42.5	45.9-47.9	30.3-35.3	
Sample Method	PDB	PDB	PDB	Low-flow	Low-flow	Low-flow	Low-flow	Low-flow	Low-flow	Low-flow	Low-flow	
Event	Baseline	Baseline	Baseline	Baseline	Post Injection	Post Injection	Post Injection	Post-Injection	Post Injection	Post Injection	Post Injection	
Sample Date	5/15/2017	5/15/2017	5/15/2017	10/18/2017	1/2/2018	1/8/2018	2/21/2018	6/15/2018	6/14/2018	6/13/2018	2/26/2019	
Chlorinated VOCs	TOGS 1.1.1 Water Quality Standards ug/L (ppb)											
Chloroethane	5	8.76	8.68	5.00 U	43 J	230	200 U	120	10	26	3.9 J	72
Chloromethane	NL	2.50 U	2.50 U	2.50 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5	1.00 U	1.00 U	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	7	5.00 U	5.00 U	5.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	186.0	183.0	18.5	3200 J	3600	13000	11	5.0 U	64	140 J	190 D
Dichlorodifluoromethane	5	5.00 U JO	5.00 U JO	5.00 U JO	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5	1.29 U	1.15 U	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 J
1,1-Dichloroethane	5	64.0	61.7	47.2	870 J	73 J	1900	8.7	50	180	34 J	220 D
1,2-Dichloroethane	5	1.00 U JO	1.00 U JO	1.00 U JO	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	3	1.00 U	1.00 U	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	5	5.00 U	5.00 U	5.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	4.6 J
1,1,1-Trichloroethane	5	29.5	28.2	2.3	530 J	100 U	200 U	5.0 U	5.6	69	19 J	9.9
1,1,2-Trichlorotrifluoroethane	5	91.9	89.2	1.3	710 J	100 U	300	5.0 U	5.0 U	4.6 J	16	57
1,1,2-Trichloroethane	1	1.00 U	1.00 U	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5	1.11	1.16	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	3.3 J
trans-1,2-Dichloroethene	5	6.51	6.70	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	7.8
Trichloroethene	5	7.12 J	6.90 J	2.67 J	280 J	100 U	200 U	5.0 U	5.0 U	13	5.0 U	9.6
Vinyl chloride	2	117	114.00	11.90	1000 J	1600	3500	14	5.0 U	16	83 J	170 D
TOTAL CVOCs	NA	511.90	499.54	83.88	6633	5503	18700	154	65.6	373	296	746
BTEX VOCs												
Benzene	1	12.20	12.00	1.00 U	R	54 J	200 U	9.1	20	8.0	23 J	20
Toluene	5	6.0	6.0	1.00 U	170 J	100 U	330	8.3	9.5	5.00 U	10 J	84
Ethyl Benzene	5	4.0	3.9	1.00 U	R	100 U	200 U	5.0 U	11	5 U	13 J	2.2
m/p-Xylene	5	6.4	6.1	2.00 U	R	200 U	400 U	8.4 J	86	10.0 U	160 J	7.0 J
o-Xylene	5	3.8	3.8	1.00 U	R	200 U	400 U	8.4 J	86	10.0 U	160 J	7.0 J
TOTAL BTEX	NA	32.42	31.65	ND	170	54	330	26	126.5	8.0	206	113
Other VOCs												
Acetone	50	50.0 U JO	50.0 U JO	50.0 U JO	R	1000 U	2000 U	50 U	50 U	29 J	21 J	5.0 J
1,4-Dioxane	NL	100 U	100 U	100 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
Carbon Disulfide	60	1.00 U	1.00 U	1.30 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	NL	1.00 U	1.00 U	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5	1.00 U	1.00 U	1.00 U	R	100 U	200 U	5.0 U	23	5.0 U	37 J	5.0 U
Methyl tert-butyl ether	10	1.00 U JO	1.00 U JO	1.00 U JO	R	100 U	200 U	2.7 J	31	1.7 J	53 J	1.4 J
Methylcyclohexane	NL	1.00 U	1.00 U	1.00 U	R	100 U	200 U	7.0	1.3 J	5.0 U	1.3 J	0.48 J
Styrene	5	1.00 U	1.00 U	1.00 U	R	100 U	200 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	5	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
1,2,4-Trimethylbenzene	5	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
2-Butanone	50	10.0 U JO	10.0 U JO	10.0 U JO	R	1000 U	2000 U	16 J	50 U	12 J	50.0 U	8.8 J*
2-Hexanone	50	10.0 U	10.0 U	10.0 U	R	500 U	1000 U	25 U	25 U	25.0 U	25.0 U	25.0 U
4-Methyl-2-pentanone	NL	10.0 U	10.0 U	10.0 U	R	500 U	1000 U	25 U	25 U	25.0 U	5.0 U	25.0 U
n-Propylbenzene	5	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
Naphthalene	10	5.00 U	5.00 U	5.00 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
n-Butylbenzene	5	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
sec-Butylbenzene	5	1.00 U	1.00 U	1.00 U	NA	NA	NA	NA	NA	NA	5.0 U	NA
VOC TICs	NA	None found	None found	None found	None found	None found	810 TJN	None found	66.0 TJN	55.0 TJN	160.0 TJN	149.3 TJN
TOTAL VOCs	NA	544.32	531.19	85.18	6,803	5,557	19,030	205	247.4	423.3	614.2	875.1
TOTAL CONCENTRATION (VOCs + TICs)		544.32	531.19	85.18	6,803.0	5,557	19,840	205	505.50	478.30	774.20	1,024.38

Legend:
 NL - Not Listed
 NA indicates not applicable
 Total VOCs - denotes summation of all detected compounds not including TICs (i.e., constituents below the detection limits are assumed to be zero).
 TICs- Tentatively Indicated Compounds
 Yellow highlighted values exceed NYSDEC TOGS 1.1.1 Water Quality Standards
 U - Indicates the compound was analyzed for as part of the standard list but not detected, with the detection limit shown as the value.
 J - Indicates an estimated value
 T- Result is a tentatively identified compound (TIC) and an estimated value
 N- Presumptive evidence of material
 F1- MS and/or MSD Recovery is outside acceptance limits.
 ** - Indicates a range approximately 5 feet above and below depth to top of pump during sampling
 ML-7S not sampled during Post Injection Event 2 or 3. ML-2S not sampled during Post Injection Event 3. Wells were dry
 Red text indicates a change made in the DUSR
 R indicates the result was rejected in the DUSR

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 2
Remedial Parameters

Parameter	Sample Location Ground Surface Elevation (Feet) Sample Elevation Interval (Feet) Sample Depth Below Grade (Feet) Sample Method Event Sample Date	LAB-SBW-15				LAB-SBW-16				ML-25			ML-2I			
		544.91				545.27				548.3			548.3			
		513.91-523.91**		505.91-515.91**		509.77-519.77**		493.27-503.27**		518.1-521.1			511.2-516.2			
		21-31**		29-39**		25.5-35.5**		42-52**		27.25-30.25			32.15-37.15			
Metals	Part 703 Groundwater Quality Standards mg/L (ppm)	Low-flow				Low-flow				Low-flow			Low-flow			
		Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Baseline	Post Injection 1	Post Injection 2	Baseline	Post Injection 1	Post Injection 2	Post Injection 3
		5/24/2017	1/2/2018	2/21/2018	6/13/2018	5/25/2017	1/2/2018	2/21/2018	6/13/2018	10/19/2017	1/2/2018	2/21/2018	10/18/2017	1/3/2018	2/21/2018	6/25/2018
Ethane	NA	ND	0.140 J	ND	0.370	ND	ND	ND	0.110 J	0.110 J	ND	ND	0.060	ND	0.230 J	0.180
Ethene	NA	ND	0.870	ND	0.033 J	ND	ND	0.100 J	ND	ND	ND	ND	NA	1.000	0.980	0.340
Ferrous Iron	NA	ND H	0.80 H	ND H	0.080 H	ND H	ND	ND H	0.086 JH	ND H	ND H	ND H	0.099 JH	ND	ND H	ND
Nitrate	10	ND	ND H	ND H	ND	0.042 J	ND H	ND HF	ND	ND H	ND H	ND H	ND H	ND H	0.031 J	0.023 JH
Nitrite	1	NA	ND H	ND H	ND	NA	ND H	ND H	ND	NA	ND H	ND H	ND H	ND H	ND	ND
Chloride	250	941	309	738	571	436	754	344	363	538	507	390	512	385	425	402
Sulfate	250	137	ND	90.6	33.1 J	148	44.6	4.1 J	ND	92.2	ND	18.2 J	85.9	10.4 J	11.7 J	ND
Sulfide	NA	ND	0.80 J	2.0	4.0	0.8 J	0.80 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
<i>Field Parameters</i>																
Dissolved Oxygen	NA	0.25	0.54	0.51	0.05	0.22	0.12	0.45	0.21	3.08	0.04	0.0	0.88	0.06	0.05	0.04
ORP (mV)	NA	-68.9	-193	-208	-202.8	-149.7	-324	-138	-111	-50	-219	-160	-94	-478	-350	-364.2

Parameter	Sample Location Ground Surface Elevation (Feet) Sample Elevation Interval (Feet) Sample Depth Below Grade (Feet) Sample Method Event Sample Date	ML-2D				ML-7S		ML-7I				ML-7D				
		548.3				545.5		545.5				545.5				
		505.3-510.3		517.3-520.3		510.2-515.2				503.0-508.0						
		38.0-43.0		25.25-28.25		30.3-35.3				37.5-42.5						
Metals	Part 703 Groundwater Quality Standards mg/L (ppm)	Low-flow				Low-flow		Low-flow				Low-flow				
		Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Baseline	Post Injection 1	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	Baseline	Post Injection 1	Post Injection 2	Post Injection 3	
		10/18/2017	1/3/2018	2/21/2018	6/25/2018	10/19/2017	1/8/2018	10/19/2017	1/8/2018	2/21/2018	6/25/2018	10/18/2017	1/8/2018	2/21/2018	6/25/2018	
Ethane	NA	ND	ND	ND	0.160	ND		0.110	ND	0.150 J	0.120	0.093	ND	0.110 J	0.037	
Ethene	NA	0.0098	ND	ND	0.140	ND		ND	0.830	1.1	0.700	ND	0.480 J	1.3	ND	
Ferrous Iron	NA	ND H	ND	ND H	ND	ND H		ND H	ND H	ND H	ND	ND H	ND HF1	ND H	ND	
Nitrate	10	ND H	0.25 H	ND	ND	ND		7.5 H	ND H	ND H	ND	34.1	5.0	0.038 JH	9.7	
Nitrite	1	ND H	0.043 JH	ND	ND	NS		NS	ND H	ND H	ND	NS	0.051	ND H	0.086	
Chloride	250	1050	913	419	411	526		652	558	344	933	720	421	428	796	
Sulfate	250	214	60.5	3.6 J	ND	83.4		120	ND	ND	ND	314	152	ND	868	
Sulfide	NA	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	
<i>Field Parameters</i>																
Dissolved Oxygen	NA	2.68	0.02	0.11	0.09	1.56	0.34	0.64	0.34	0.02	0.17	0.48	0.01	0.05	1.96	
ORP (mV)	NA	-32	-129	-180	-157.8	-131	-225	39	-251	-433	-227.5	54	-231	-163	-28.9	

Legend:

H - Sample prepped or analyzed beyond specified holding time

F1 - MS and/or MSD recovery is outside acceptance limits.

ND - Indicates not detected

J - Indicates an estimated value.

NA - Not applicable

Yellow highlighted values exceed NYSDEC Part 703 Groundwater Quality Standards

** - Indicates a range approximately 5 feet above and below depth to top of pump during sampling

NS indicates not sampled

ML-7S not sampled during Post Injection Event 2 or 3. ML-2S not sampled during Post Injection Event 3. Wells were dry

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 3
Soil Gas Screening
LaBella Project Number 210173

Date	10/2/2017		10/2/2017		10/3/2017		10/3/2017		10/4/2017		10/5/2017	
Time	1330		1630 (after blast)		0800		1515 (after blast)		1030		1330	
Weather	Sunny, 60°F		Sunny, 60°F		Sunny, 70°F		Sunny, 70°F		Sunny, 80°F		Sunny, 70°F	
Point ID	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)
SG-01	1680	0	1002	0.5	1800	17	1600	20	1900	15	2800	5.9
SG-02	234	0.3	1219	1.5	2900	4.2	3300	0.1	3900	1.1	4200	3.4
SG-03	2741	8.2	1500	19	812	0	740	2.4	1900	0.3	1900	5.6
SG-04	23000	7.6	15000	10	12000	16	15000	14	15000	5.3	13000	10.1
SG-05	0	0	0	0	0	0	0	0	0	0	0	0
SG-06	1600	0.3	1900	0.5	1100	0	1365	0	1900	0.1	1152	0
SG-07	0	0	0	0	0	0	300	0	435	0.1	109	0
SG-08	3133	49	2900	48	2100	21	1684	4.1	2800	41	2300	16

Date	10/6/2017		10/9/2017		10/10/2017		10/11/2017		10/17/2017		10/23/2017	
Time	1050		1545		1430		1045		0800		1100	
Weather	Rain, 60°F		Rain, 60°F		Sunny, 65°F		Sunny, 65°F		Sunny, 35°F		Overcast, 60°F	
Point ID	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*
SG-01	3677	4.9	2571	-	2992	15	1978	34.5	1411	15.2	2600	43
SG-02	6611	2.6	6284	-	6889	16.3	4980	3.3	1822	6.5	3251	21.6
SG-03	1436	5.3	1472	-	5325	8.2	2767	15.2	298	2.4	1224	14.6
SG-04	14810	0	2311	-	15111	24.8	1904	0	2691	24.6	5713	32.5
SG-05	0	0	0	-	0	0	0	0	0	0	0	0
SG-06	2250	0	1700	-	1986	0.6	2464	4.6	1152	0.6	0	0.5
SG-07	289	0	472	-	1688	0	1011	0	305	0.1	33	0
SG-08	2495	9.2	2284	-	2265	54.6	2491	50.6	997	55.2	1430	56.4

Date	10/24/2017		10/25/2017		10/26/2017		10/27/2017		10/31/2017		11/2/2017	
Time	1400		1530		0930		0830		0830		1000	
Weather	Sunny, 65°F		Overcast, 60°F		Overcast, 50°F		Sunny, 60°F		Overcast, 40°F		Overcast, 45°F	
Point ID	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*
SG-01	2100	38.7	1780	36.9	2031	27.2	1301	26.1	1943	17.8	3801	11.2
SG-02	2457	9.5	3500	20.1	2929	12.9	1991	6.4	1877	3.2	1947	0.4
SG-03	963	13.2	1000	28	1066	12.5	817	0.4	956	3.4	922	4.9
SG-04	7740	34.1	4050	32.6	5745	32.1	3628	0	5325	17.8	7570	16.9
SG-05	0	0	0	0	0	0	0	0	0	0	0	0
SG-06	2475	1.2	2000	7.6	1626	0.7	1805	0.2	1222	0.3	1452	0.5
SG-07	1084	0	1000	0.1	160	0	352	0	376	0	593	0
SG-08	1371	57.5	960	50.6	994	50.3	771	48	910	47.9	3872	19.9

Date	11/6/2017		11/7/2017		11/8/2017		11/9/2017		11/13/2017		11/16/2017	
Time	1200		1220		1215		1445		1030		1145	
Weather	Overcast, 40°F		Overcast, 40°F		Overcast, 40°F		Overcast, 40°F		Overcast, 40°F		Overcast, 35°F	
Point ID	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*
SG-01	1035	9.7	0	6.5	667	9.8	654	6.3	1402	6.3	0	8.1
SG-02	830	0.4	0	3.2	730	3.2	288	0.6	70	1.3	38	9.1
SG-03	643	0.5	63	0.5	0	2.9	0	0.5	0	0.2	0	0.2
SG-04	4116	32.5	3724	37.5	3505	37.3	4447	38	3136	37	3230	37.7
SG-05	0	0	0	0	0	0	0	0	0	0	0	0
SG-06	1195	8.6	29	4.7	159	8.2	77	0.3	0	8.1	0	5.2
SG-07	0	0	265	0	92	0.2	19	0.2	91	1.2	18	0.7
SG-08	923	52.4	838	57.3	917	52.1	1020	51	742	54.8	682	55.6

Date	11/17/2017		6/15/2018	
Time	0800		800	
Weather	Overcast, 30°F		Sunny 75°F	
Point ID	PID (ppb)	Methane (%)*	PID (ppb)	Methane (%)*
SG-01	0	2.7	1604	0.2
SG-02	207	11.2	668	30.1
SG-03	0	0.1	320	15.4
SG-04	2195	37.5	3906	23.2
SG-05	0	0	0	0
SG-06	0	0.3	86	0
SG-07	0	1.2	0	0.3
SG-08	532	53.9	1682	39.9

Notes:
PID readings collected using a ppbRAE 3000 in parts per billion (ppb)
A reading for methane was not collected on 10/9/2017 due to a malfunction with the MultiRAE.
* Denotes the use of a Landtec Landfill Gas Meter, as opposed to a MultiRAE, to screen for methane.
Landfill Gas Meter also detects other short-chain hydrocarbons and thus methane readings may be biased high
Comparison of Landfill Gas Meter readings to analytical data results also indicate meter is biased high

Former Emerson Street Landfill
P-1 Plume Pilot Test
Table 4
Pilot Test Well Information
LaBella Project Number 210173

ID	Northing	Easting	Ground Elevation (fmsl)	Depth to bedrock (ft bgs)	Monitoring Interval (ft btr)	Monitoring Interval (fmsl)	Depth of well (ft bgs)	Bottom elevation of well (fmsl)	Monitoring Zone	Depths Major Fractures Observed (ft bgs)	Elevations Major Fractures Observed (fmsl)
LAB-SBW-15	1158450.5	1390189.9	544.6	21.6	3.00 - 24.10	498.9 - 520.0	45.7	498.9	A, Upper B, B, C	NA	NA
LAB-SBW-16	1158458.1	1390282.1	548.1	26.0	3.00 - 24.20	497.9 - 519.1	50.2	497.9	A, Upper B, B, C	NA	NA
ML-1S	1158463.3	1390311.0	549.5	27.5	0 - 3	519.0 - 522.0	30.5	519.0	A	NA	NA
ML-1I	1158463.0	1390310.8	549.5	27.5	5 - 10	512.0 - 517.0	37.5	512.0	Upper B	NA	NA
ML-1D	1158463.0	1390310.8	549.5	27.5	12 - 17	505.0 - 510.0	44.5	505.0	B/C	NA	NA
ML-2S	1158465.7	1390282.7	548.3	27	0 - 3	518.3 - 521.3	30.0	518.3	A	NA	NA
ML-2I	1158465.8	1390282.7	548.3	27	5 - 10	511.3 - 516.3	37.0	511.3	Upper B	NA	NA
ML-2D	1158465.8	1390282.8	548.3	27	12 - 17	504.4 - 509.4	43.9	504.4	B/C	NA	NA
ML-3S	1158481.6	1390250.4	546.6	25	0 - 3	518.6 - 521.6	28.0	518.6	A	NA	NA
ML-3I	1158481.5	1390250.4	546.6	25	5 - 10	511.6 - 516.6	35.0	511.6	Upper B	NA	NA
ML-3D	1158481.4	1390250.1	546.6	25	12 - 17	504.5 - 509.5	42.1	504.5	B/C	NA	NA
ML-4S	1158458.8	1390251.6	546.0	23	0 - 3	520.0 - 523.0	26.0	520.0	A	NA	NA
ML-4I	1158458.5	1390252.0	546.0	23	5 - 10	513.0 - 518.0	33.0	513.0	Upper B	NA	NA
ML-4D	1158458.5	1390252.2	546.0	23	12 - 17	503.9 - 508.9	42.1	503.9	B/C	NA	NA
ML-5S	1158470.7	1390236.5	545.9	24	0 - 3	518.9 - 521.9	27.0	518.9	A	NA	NA
ML-5I	1158470.4	1390236.6	545.9	24	5 - 10	511.9 - 516.9	34.0	511.9	Upper B/B	NA	NA
ML-5D	1158470.3	1390236.8	545.9	24	12 - 17	505.0 - 510.0	40.9	505.0	B/C	NA	NA
ML-6S	1158466.3	1390201.6	544.9	23	0 - 3	518.9 - 521.9	26.0	518.9	A	NA	NA
ML-6I	1158466.0	1390202.1	544.9	23	5 - 10	511.9 - 516.9	33.0	511.9	Upper B	NA	NA
ML-6D	1158466.1	1390201.5	544.9	23	12 - 17	502.4 - 507.4	42.5	502.4	B/C	NA	NA
ML-7S	1158473.6	1390162.2	545.5	23	0 - 3	519.5 - 522.5	26.0	519.5	A	NA	NA
ML-7I	1158474.1	1390162.3	545.5	23	5 - 10	512.5 - 517.5	33.0	512.5	Upper B	NA	NA
ML-7D	1158473.9	1390162.1	545.5	23	12 - 17	503.0 - 508.0	42.5	503.0	B/C	NA	NA
ML-8S	1158471.5	1390177.0	545.6	23	0 - 3	519.6 - 522.6	26.0	519.6	A	NA	NA
ML-8I	1158471.3	1390176.9	545.6	23	5 - 10	512.6 - 517.6	33.0	512.6	Upper B	NA	NA
ML-8D	1158471.8	1390177.0	545.6	23	12 - 17	503.0 - 508.0	42.6	503.0	B/C	NA	NA
IP-1	1158472.6	1390167.1	545.6	22	1 - 15	507.6 - 521.6	38.0	507.6	A, Upper B, B, C	26.4 - 26.7 28.7 - 29.7	518.9 - 519.2 515.9 - 516.9
IP-2	1158467.6	1390186.6	544.3	22	1 - 15	506.3 - 520.3	38.0	506.3	A, Upper B, B, C	25.9 - 26.2 28.0 - 30.8 31.1 - 31.5 31.7 - 34.2 34.4 - 34.7 24.8 - 35.4 27.6 - 27.7	518.1 - 518.4 513.5 - 516.3 512.8 - 513.2 510.1 - 512.6 509.6 - 509.9 508.9 - 519.5 517.4 - 517.5
IP-3	1158473.3	1390250.9	545.1	24.5	1 - 15.5	505.1 - 519.6	40.0	505.1	A, Upper B, B, C	33.1 - 33.2 34.6 - 35.1	511.9 - 512.0 510.0 - 510.5
IP-4	1158475.1	1390280.5	546.1	25.5	1 - 15.9	504.7 - 519.6	41.4	504.7	A, Upper B, B, C	28.2 - 28.3 30.9 - 31.0 35.4 - 35.5 37.0 - 37.5	517.8 - 517.9 515.1 - 515.2 510.6 - 510.7 508.6 - 509.1
IP-5	1158479.0	1390310.1	547.4	24	2 - 15.3	508.1 - 521.4	39.3	508.1	A, Upper B, B	28.0 - 28.3 30.9 - 31.1 37.1 - 37.4	519.1 - 519.4 516.3 - 516.5 510.0 - 510.3

Notes:

ft btr = feet below top of rock
fmsl = feet above mean sea level
ft bgs = feet below ground surface
northing and easting in NAD83 NYSP West datum
elevations in NAVD88 datum
ML wells were not viewed with the televiewer
IP-1 blocked at 29.7 ft bgs with rock fragments; further observation with well camera was not able to be completed

Injection Point ID	Injection Interval #	Injection Interval (ft bgs / fmsl)	Injection Pressures	Max Pressure During Pneumatic Enhancement	Maintenance Pressure (pneumatic only)	Pressure Observed on Gauge (pressures in psi) >0 indicates a pressure gauge was not installed but pressure was built up in the valve >15 indicates the maximum reading on the gauge was 15 psi and the gauge was above the maximum reading Blank cells indicate no pressure gauge and no valve installed in the well											
						Pneumatic (IP-5)											
Monitoring Well ID						ML-2S	ML-2I	ML-2D	SBW-16	IP-4	ML-1D	SBW-07	ML-1I	ML-3S	ML-1S		
Horizontal Distance from Injection Point (ft)						31	31	31	35	30	16	40	16	60	16		
Monitoring Depth (ft btr)						0-3	5-10	12-17	3-24.2	1-15.9	12-17	27.0-48.8	5-10	0-3	0-3		
Monitoring Elevation (fmsl)						518.3-521.3	511.3-516.3	504.4-509.4	497.9-519.1	504.7-519.6	505.0-510.0	497.8-519.6	512.0-517.0	518.6-521.6	519.0-522.0		
IP-5	6	36-39 / 508.4-511.4	30-40	282	26 7	3	1	4	6	1	16	1					
	7	33-36 / 511.4-514.4	40-60	265	21 2	1.5	>15	0	6	>0	>0	>0	>15	>0			
	8	30-33 / 514.4-517.4	40-60	285	23 5	2	5	0	1	>0		>0	5.5				
	9	28-30 / 517.4-519.4	40-60	232	21 8	2	0	0	0	1		2	>0	>0	2.5		
	10	26-28 / 519.4-521.4	40-60	225	19 6	2.5				1	1		2		>0	4	

Injection Point ID	Injection Interval #	Injection Interval (ft bgs / fmsl)	Injection Pressures	Max Pressure During Pneumatic Enhancement	Maintenance Pressure (pneumatic only)	Pressure Observed on Gauge (pressures in psi)										
						>0 indicates a pressure gauge was not installed but pressure was built up in the valve >15 indicates the maximum reading on the gauge was 15 psi and the gauge was above the maximum reading Blank cells indicate no pressure gauge and no valve installed in the well										
Pneumatic (IP-4)																
Monitoring Well ID						ML-3D	IP-3	ML-4D	ML-2D	ML-2I	ML-2S	SBW-16	ML-1D	ML-1I	ML-1S	IP-5
Horizontal Distance from Injection Point (ft)						31	30	34	10	10	10	17	33	33	33	30
Monitoring Depth (ft btr)						12-17	1-15.5	12-17	12-17	5-10	0-3	3-24.2	12-17	5-10	0-3	2-15.3
Monitoring Elevation (fmsl)						504.5-509.5	5051-519.6	503.9-508.9	504.4-509.4	511.3-516.3	518.3-521.3	497.9-519.1	505.0-510.0	512.0-517.0	519.0-522.0	508.1-521.4
IP-4	1	38-41 / 505.1-508.1	20-30	245	21	>0	>0	>0	>15	0	0	7	11	>0	0	0
	1	35-38 / 508.1-511.1	60-80	325	23	>0	2	0	4.5	>15	>0	11.5	4	>15	0	3
	1	32-35 / 511.1-514.1	45-60	255	22	0	>0	0	0	>15	>0	7.5	0	>15	0	3
	1	29-32 / 514.1-517.1	40-80	225	19	1	>0	0	0	4	>15	7.5	0	2.5	>0	3
	1	26-29 / 517.1-520.1	60	225	19	0	>0	6.5	0	0	>0	>15	3	0	>0	14

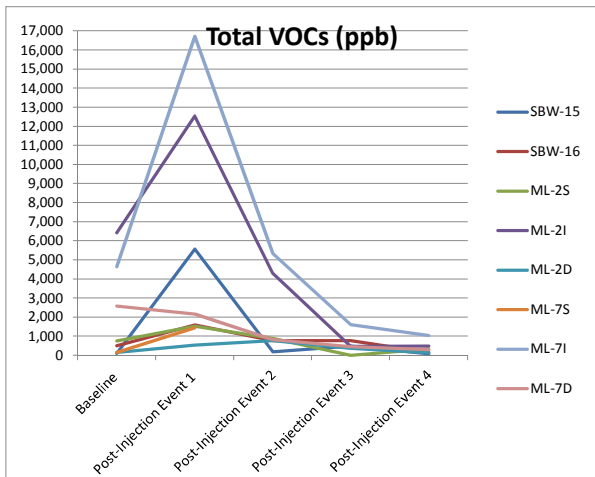
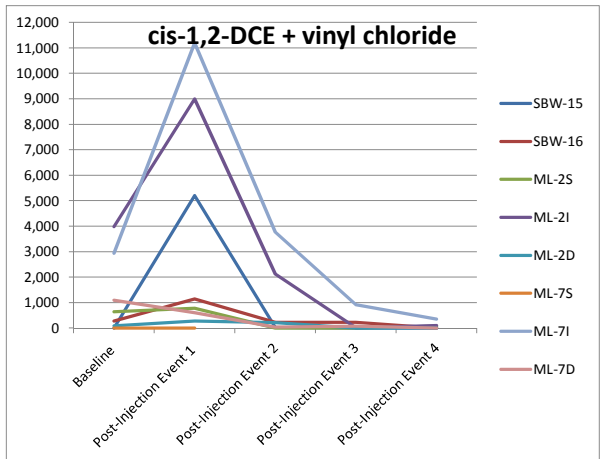
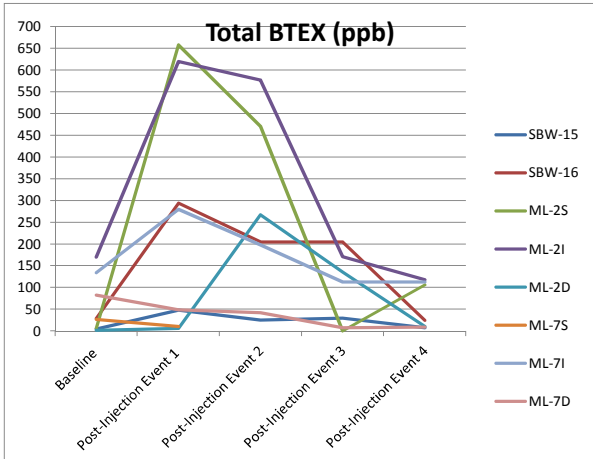
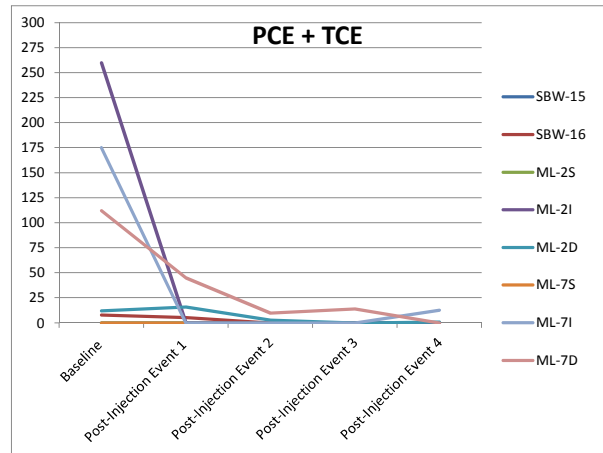
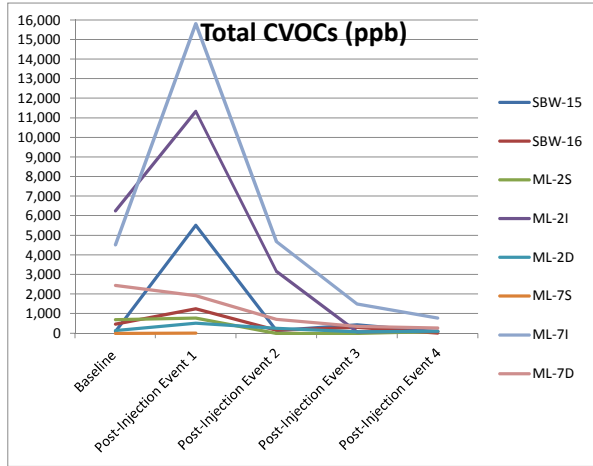
Injection Point ID	Injection Interval #	Injection Interval (ft bgs / fmsl)	Injection Pressures	Max Pressure During Pneumatic Enhancement	Maintenance Pressure (pneumatic only)	<p align="center">Pressure Observed on Gauge (pressures in psi)</p> <p align="center">>0 indicates a pressure gauge was not installed but pressure was built up in the valve</p> <p align="center">>15 indicates the maximum reading on the gauge was 15 psi and the gauge was above the maximum reading</p> <p align="center">Blank cells indicate no pressure gauge and no valve installed in the well</p>										
Pneumatic (IP-3)																
Monitoring Well ID						ML-3S	ML-3I	ML-3D	ML-5S	ML-4D	ML-2S	SBW-16	IP-4	IP-5		
Horizontal Distance from Injection Point (ft)						8	8	8	14	14	33	35	30	60		
Monitoring Depth (ft btr)						0-3	5-10	12-17	0-3	12-17	0-3	3-24.2	1-15.9	2-15.3		
Monitoring Elevation (fmsl)						518.6-521.6	511.6-516.6	504.5-509.5	518.9-521.9	503.9-508.9	518.3-521.3	497.9-519.1	504.7-519.6	508.1-521.4		
IP-3	16	35.5-38.5 / 506.6-509.6	30-45	245	220	>0	0	3.5	0	>15	0	>0				
	17	31.5-34.5 / 510.6-513.6	40-60	225	203		4			5.5	>0	4		>0		
	18	28.5-31.5 / 513.6-516.6	40-60	210	194	>0	2		>0	7	>0	4	>0	>0		
	19	25.5-28.5 / 516.6-519.6	40-60	200	190	>0	1		>0	4	>0	4	>0	>0		



GRAPHS

Former Emerson Street Landfill
P-1 Plume Pilot Test
LaBella Project Number 210173

Graph 1A- Comparison of All Sampling Events by Contaminant



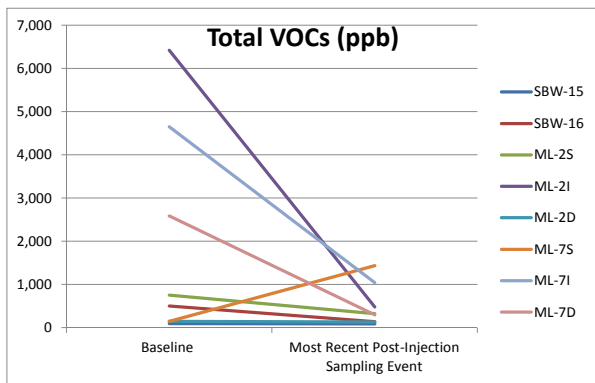
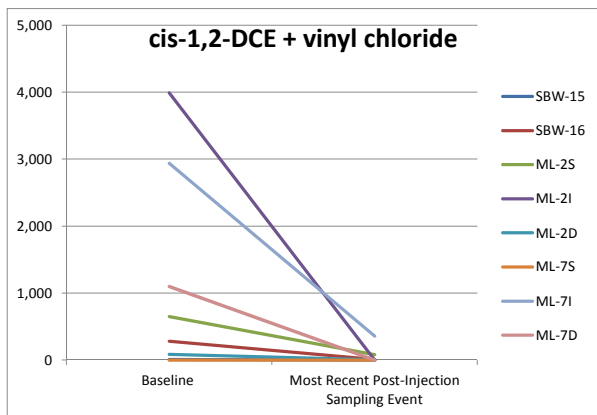
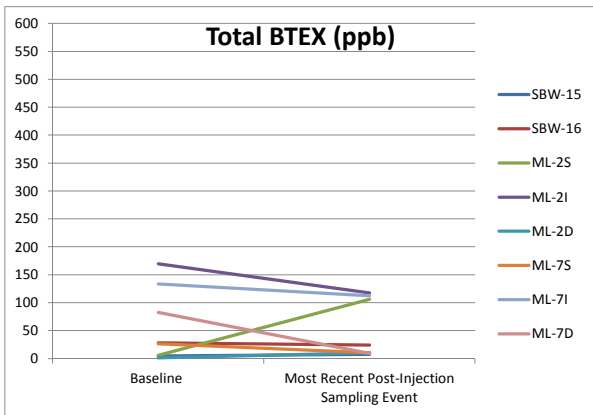
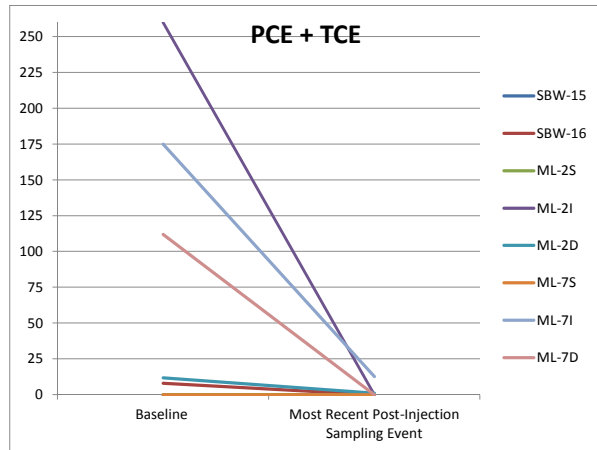
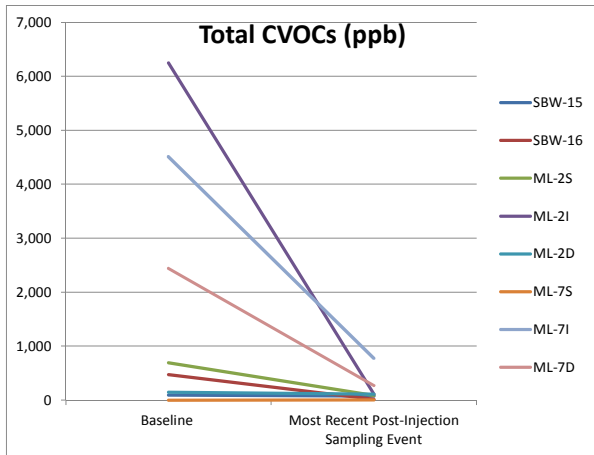
ML-7S not sampled in Event 2, Event 3, or Event 4; well screen filled with iron.
ML-2S not sampled in Event 3; well was dry

Former Emerson Street Landfill

P-1 Plume Pilot Test

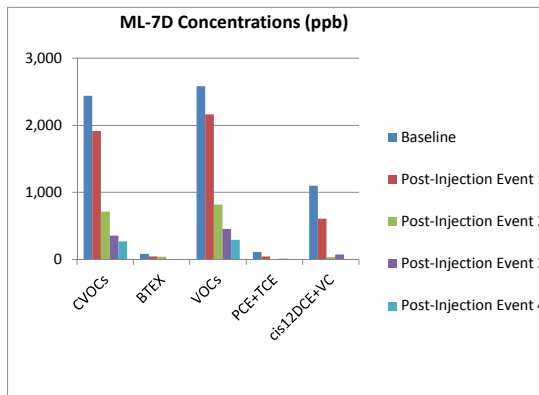
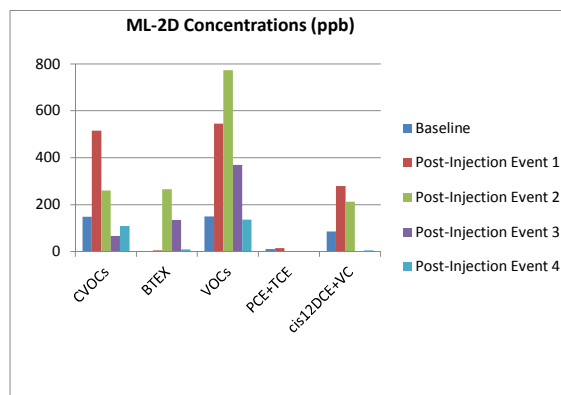
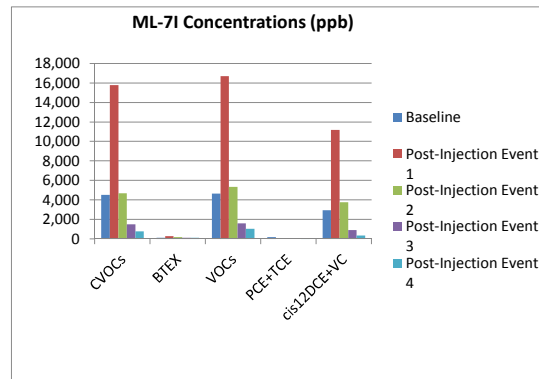
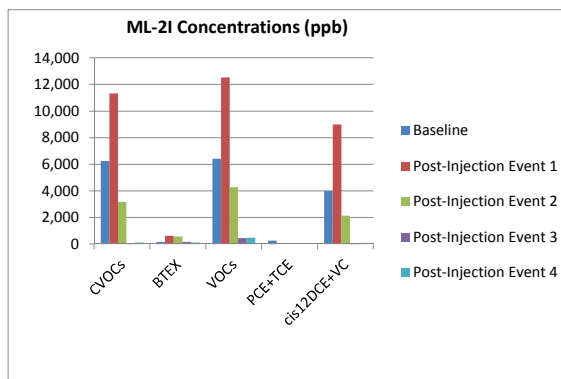
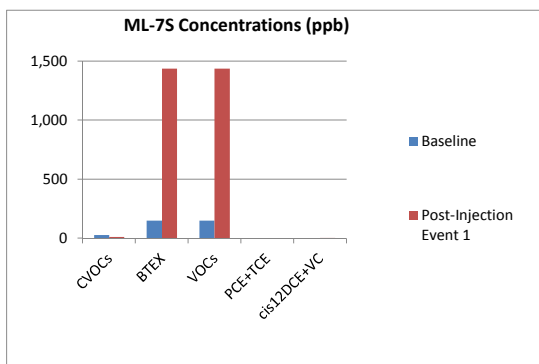
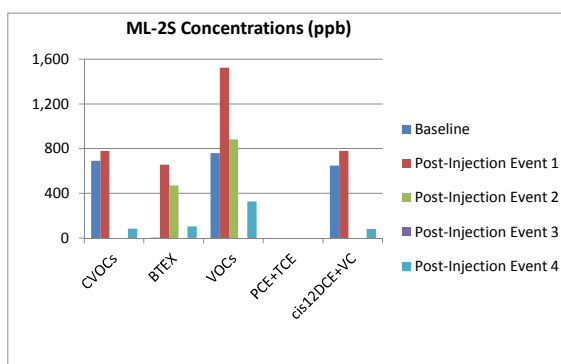
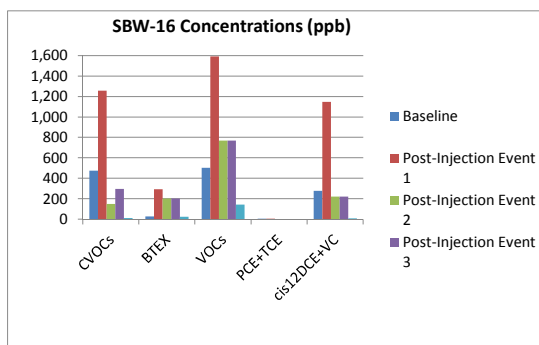
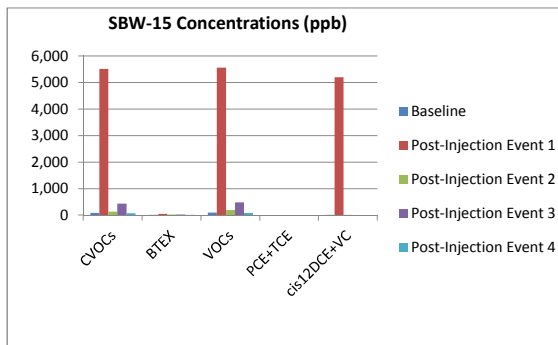
LaBella Project Number 210173

Graph 1B- Comparison of Baseline to Most Recent Sampling Event by Contaminant



ML-7S not sampled in Event 2 or Event 3; well screen filled with iron.
ML-2S not sampled in Event 3; well was dry

Former Emerson Street Landfill
P-1 Plume Pilot Test
LaBella Project Number 210173
Graph 2A- Comparison of All Sampling Events by Well

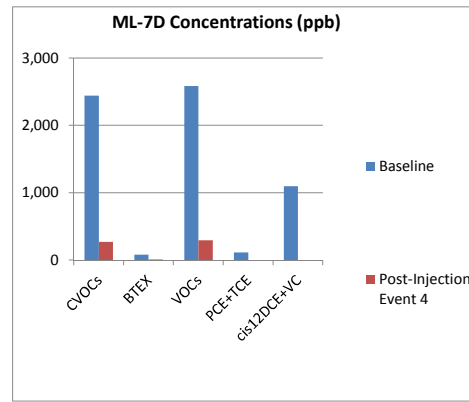
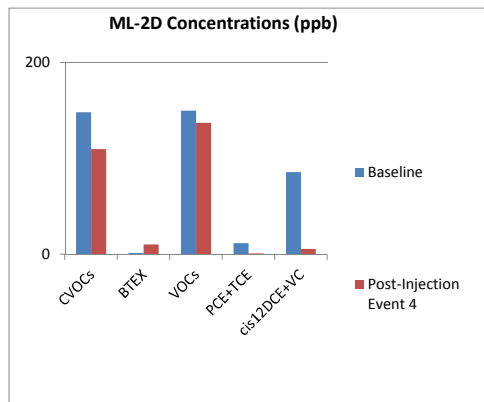
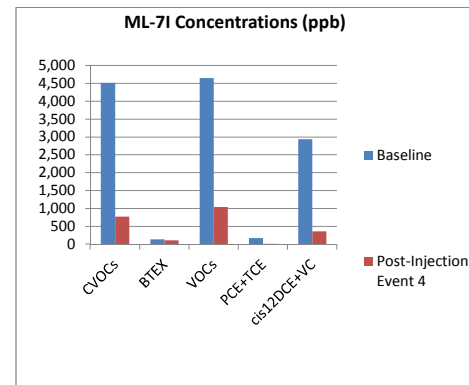
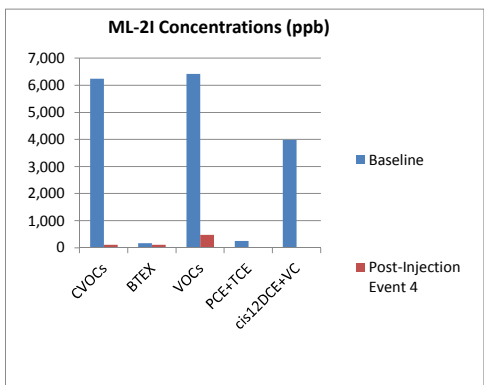
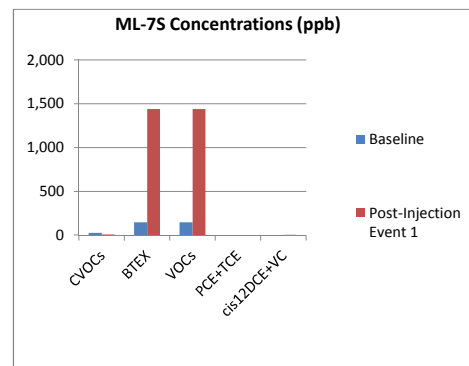
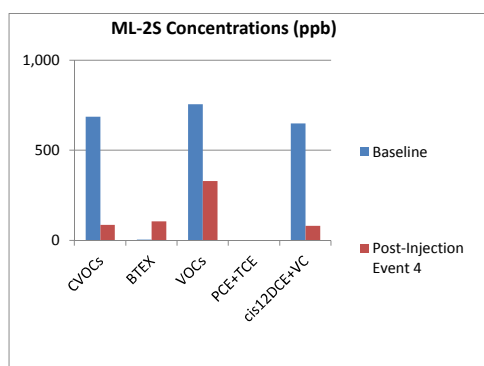
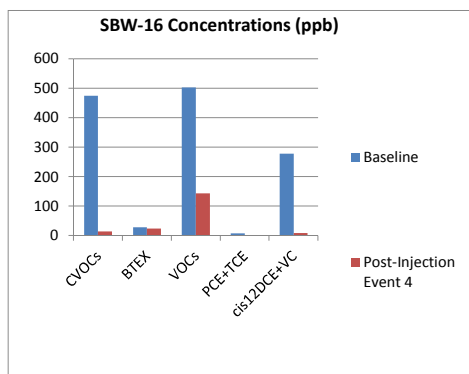
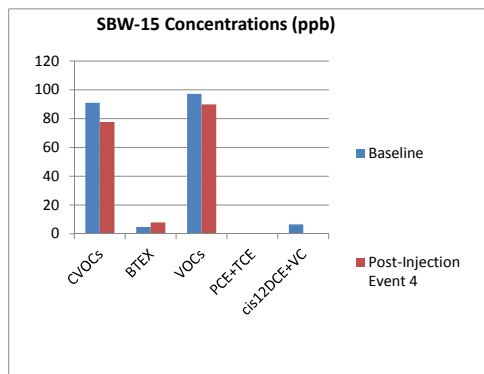


ML-7S not sampled in Event 2, Event 3, or Event 4; well screen filled with iron.
ML-2S not sampled in Event 3; well was dry

Former Emerson Street Landfill
P-1 Plume Pilot Test

LaBella Project Number 210173

Graph 2B- Comparison of Baseline to Most Recent Sampling Event by Well




ML-7S not sampled in Event 2, Event 3, or Event 4; well screen filled with iron.

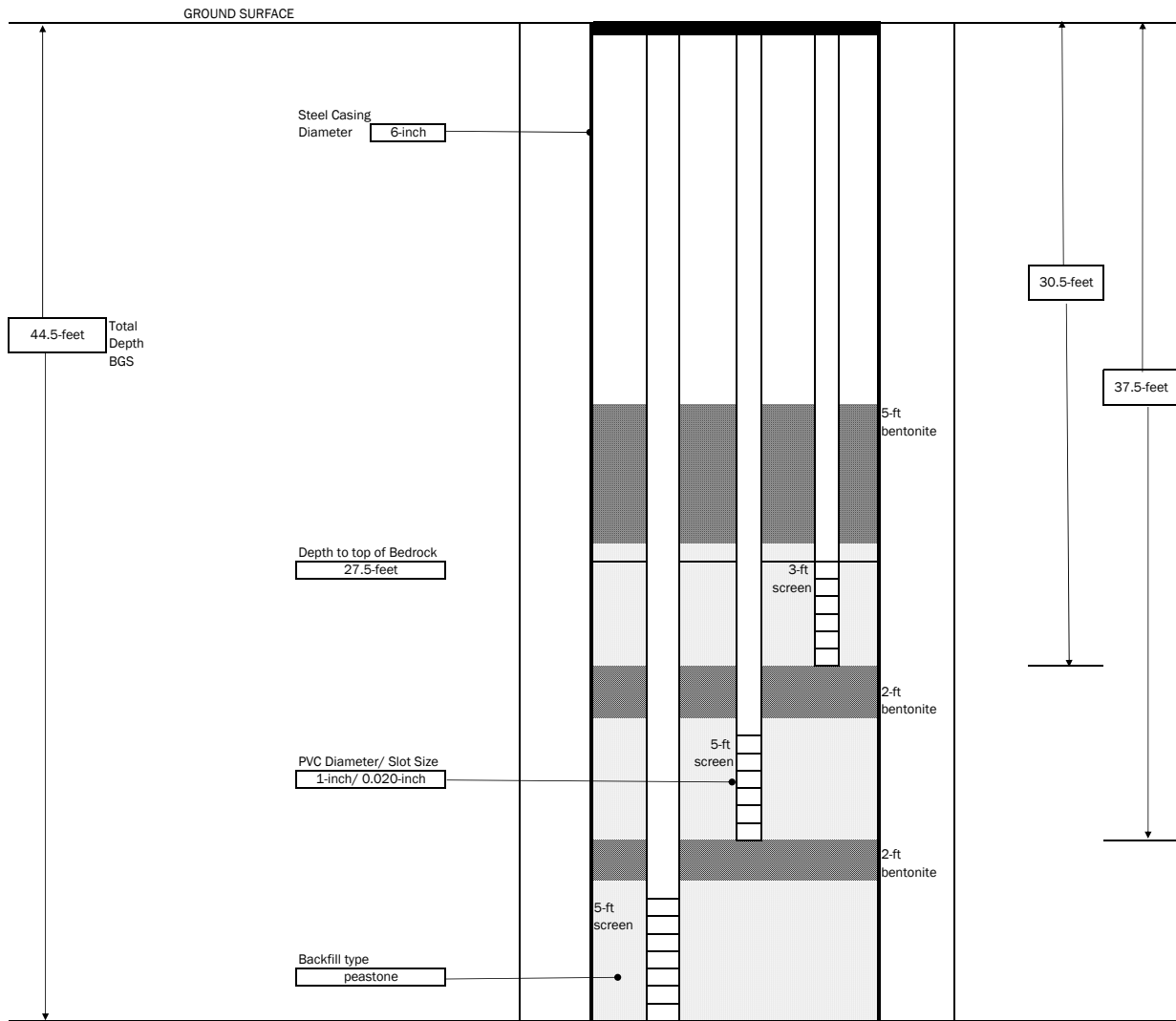
ML-2S not sampled in Event 3; well was dry




APPENDIX 1

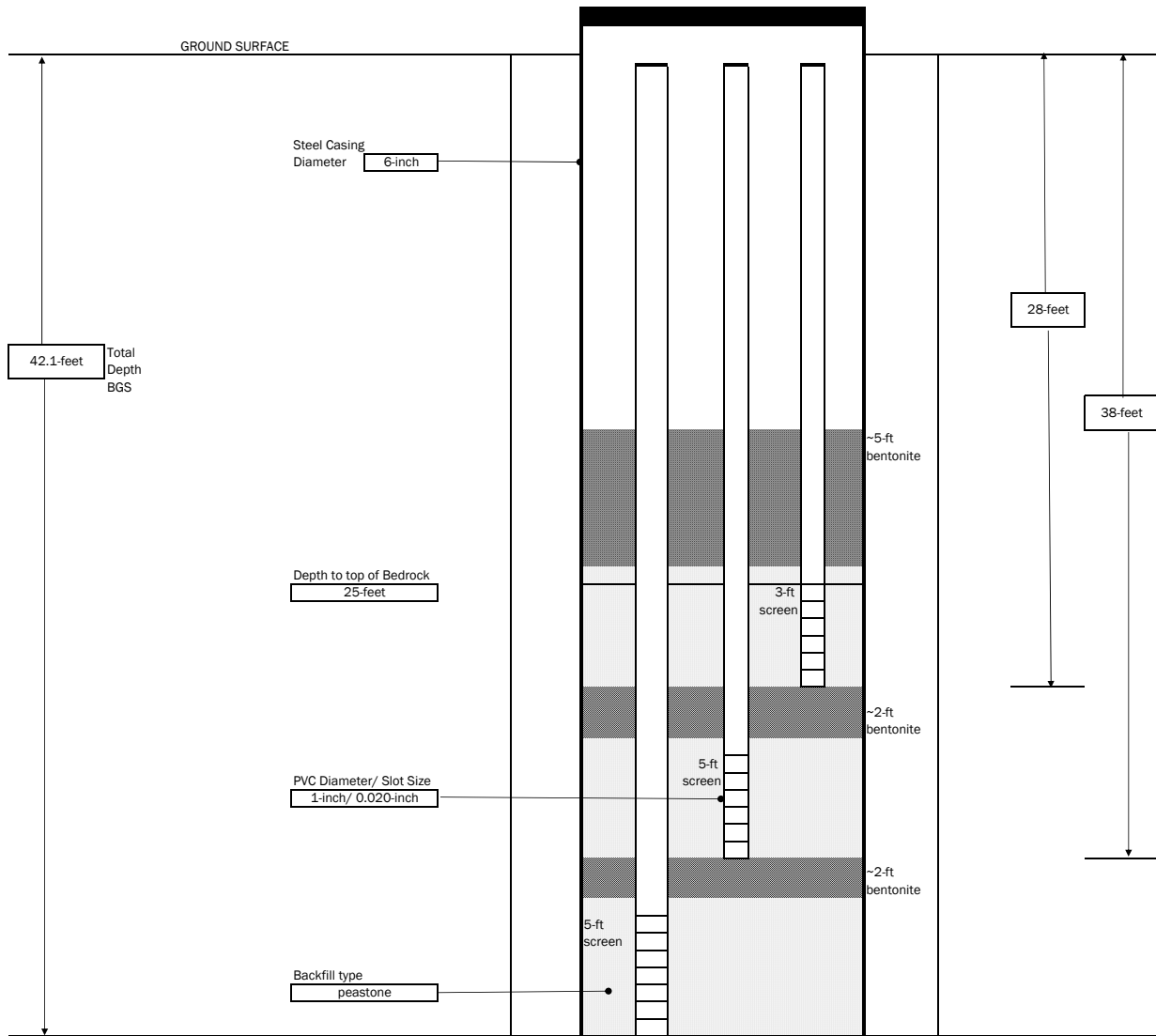
Field Logs

 LaBella <small>Powered by partnership.</small> 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : ML-1																									
		SHEET 1 OF 1 JOB # 210173																									
CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: pneumatic injection area GROUND SURFACE ELEVATION: START DATE: 10/2/2017 END DATE: 10/3/2017	DATUM:																									
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																										
	<table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	TIME	WATER	CASING	REMARKS																					
DATE	TIME	WATER	CASING	REMARKS																							




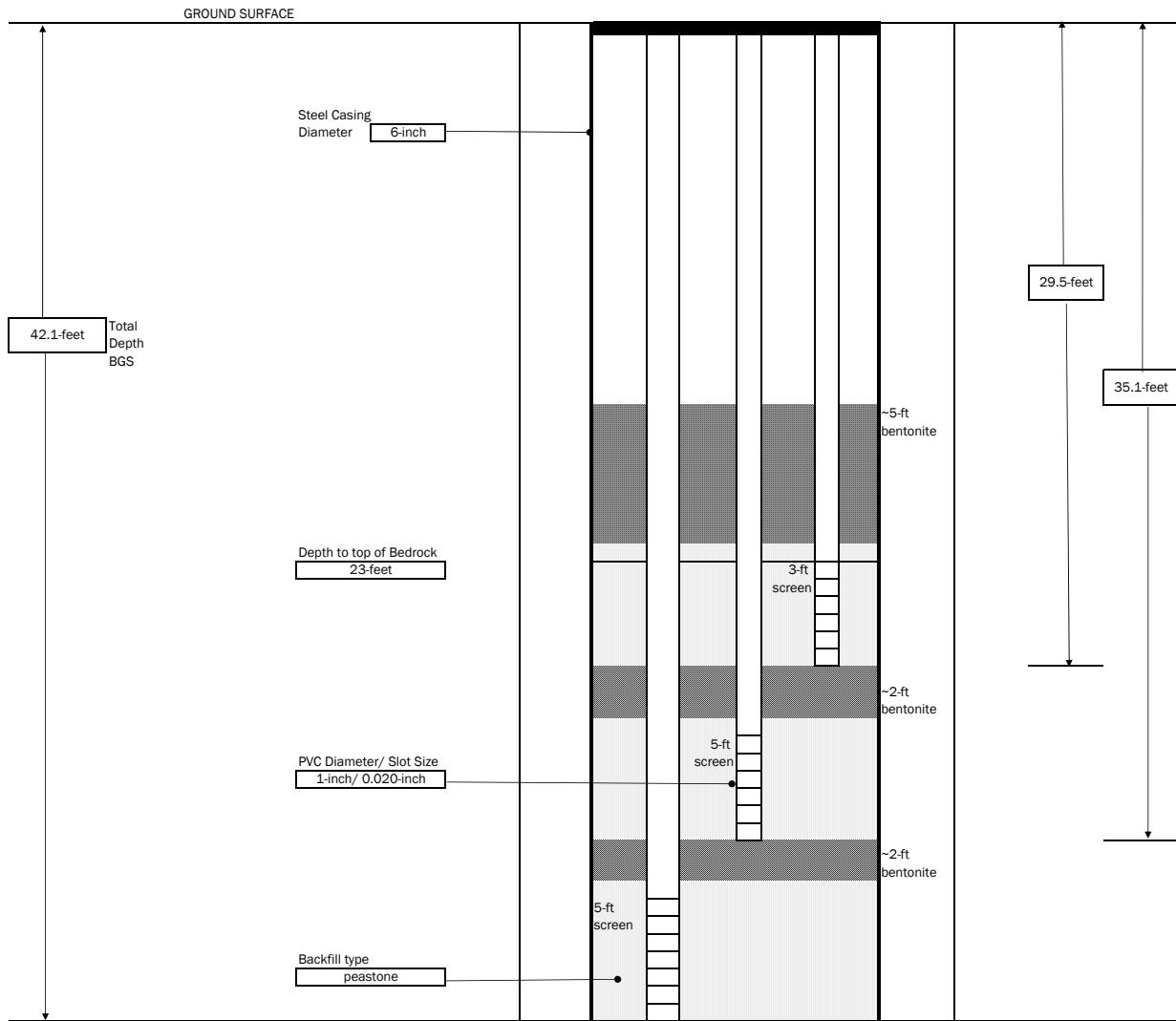
- GENERAL NOTES:
- 1) NOT TO SCALE
 - 2) DEPTHS ARE APPROXIMATE
 - 3) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR
 - 4) BGS = BELOW GROUND SURFACE

 LaBella <small>Powered by partnership.</small> 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : ML-3																														
	SHEET 1 OF 1 JOB # 210173	CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: pneumatic injection area GROUND SURFACE ELEVATION: START DATE: 10/4/2017 END DATE: 10/5/2017																													
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																															
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DATE	TIME	WATER	CASING	REMARKS																												




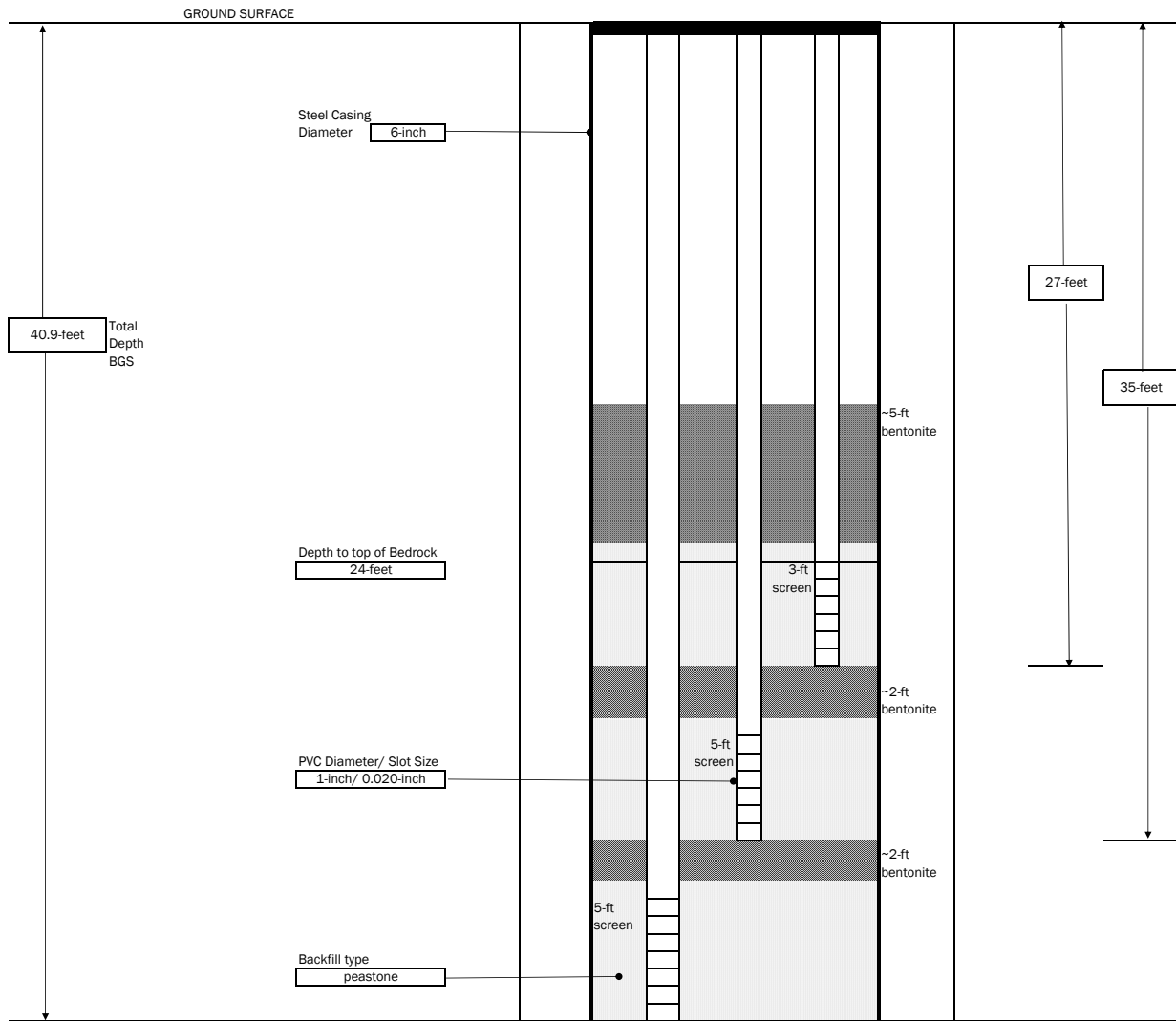
- GENERAL NOTES:
- 1) NOT TO SCALE
 - 2) DEPTHS ARE APPROXIMATE
 - 3) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR
 - 4) BGS = BELOW GROUND SURFACE

 LaBella <small>Powered by partnership.</small> 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : ML-4																									
		SHEET 1 OF 1 JOB # 210173																									
CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: pneumatic injection area GROUND SURFACE ELEVATION: START DATE: 10/5/2017 END DATE: 10/6/2017	DATUM:																									
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																										
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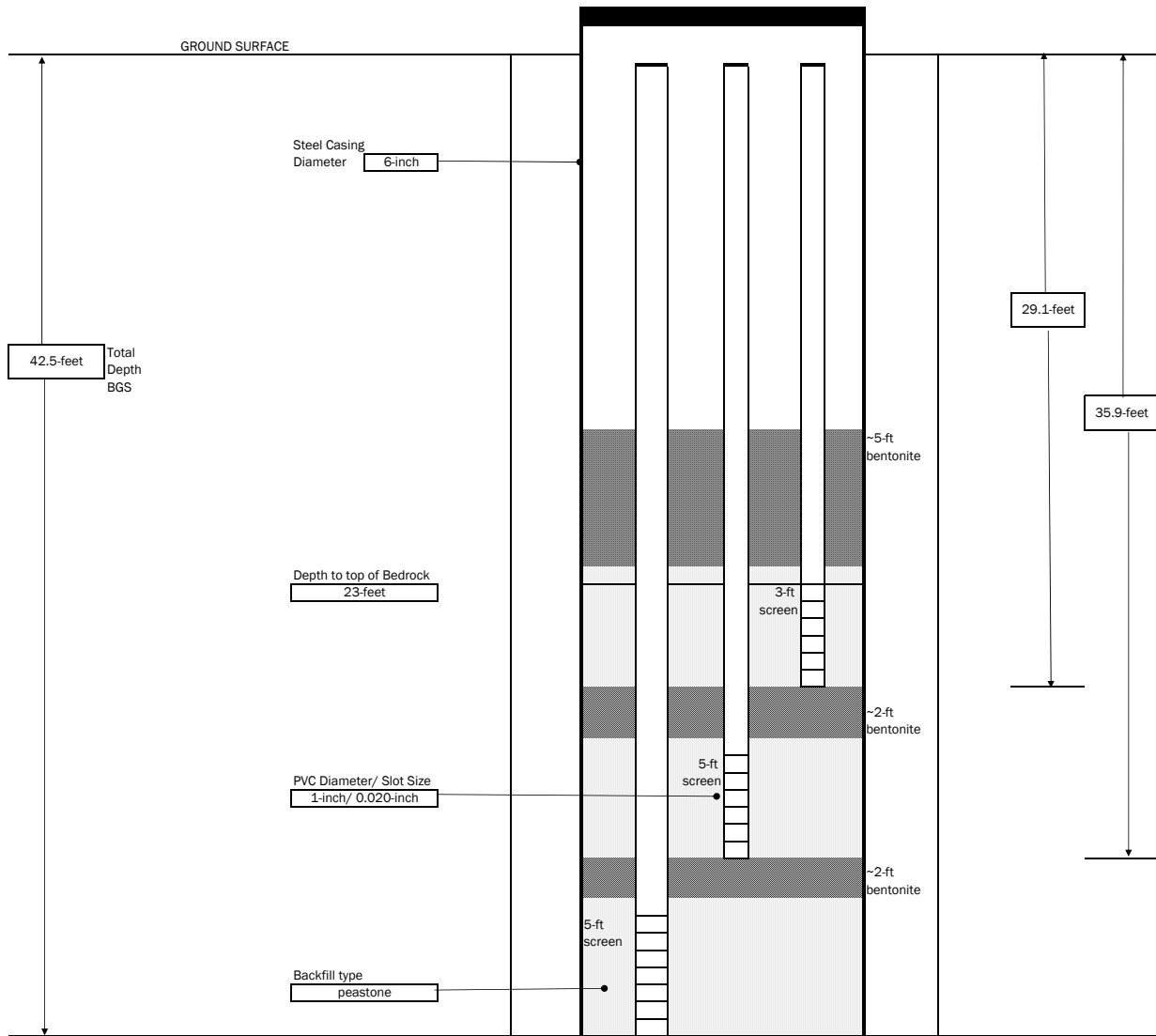
- GENERAL NOTES:
- 1) NOT TO SCALE
 - 2) DEPTHS ARE APPROXIMATE
 - 3) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR
 - 4) BGS = BELOW GROUND SURFACE

 LaBella <small>Powered by partnership.</small> 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : ML-5																									
		SHEET 1 OF 1 JOB # 210173																									
CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: pneumatic injection area GROUND SURFACE ELEVATION: START DATE: 10/6/2017 END DATE: 10/9/2017	DATUM:																									
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																										
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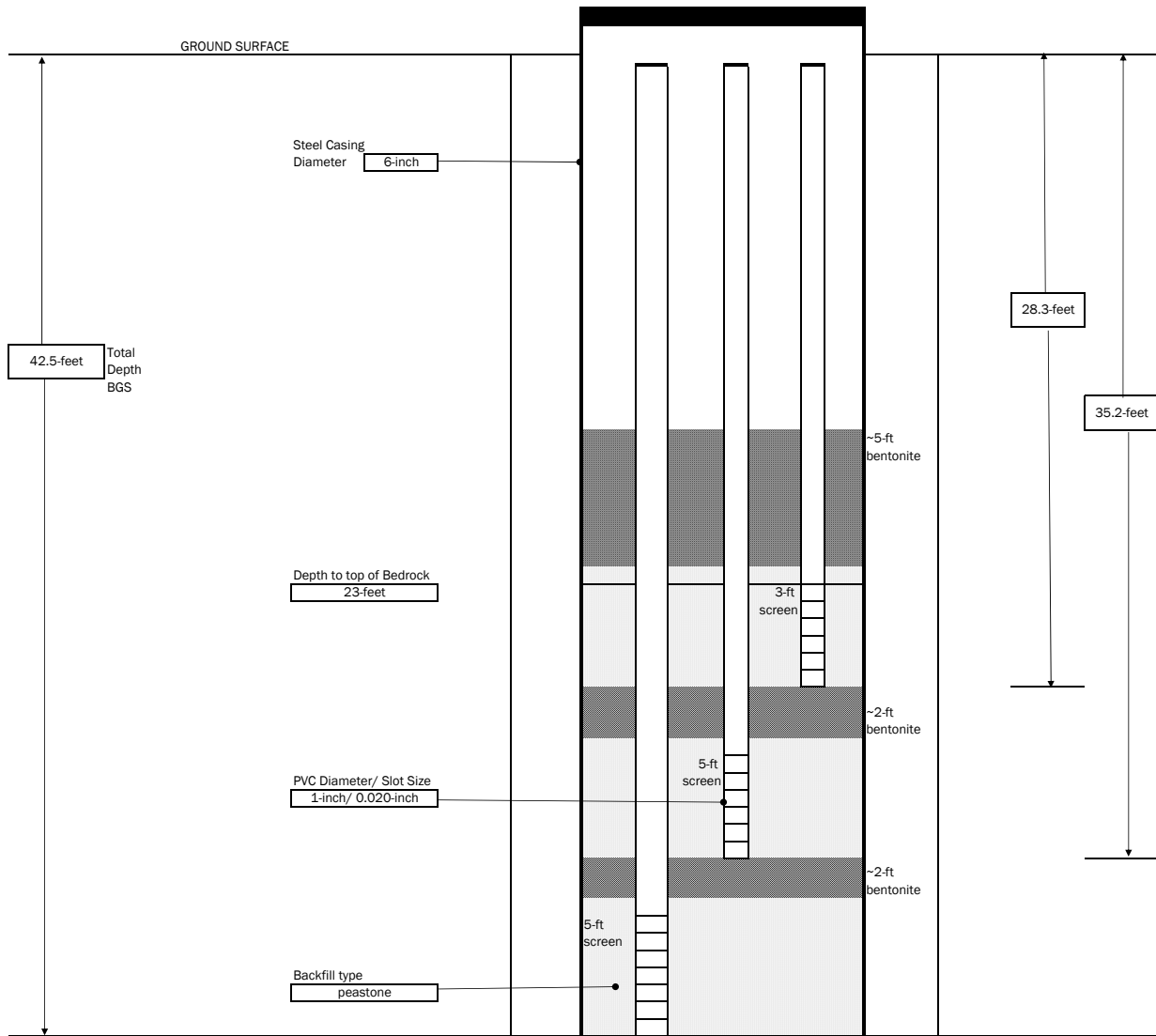
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		SHEET 1 OF 1 JOB # 210173																									
CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: Blast-enhanced bedrock trench GROUND SURFACE ELEVATION: START DATE: 10/9/2017 END DATE: 10/9/2017	DATUM:																									
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																										
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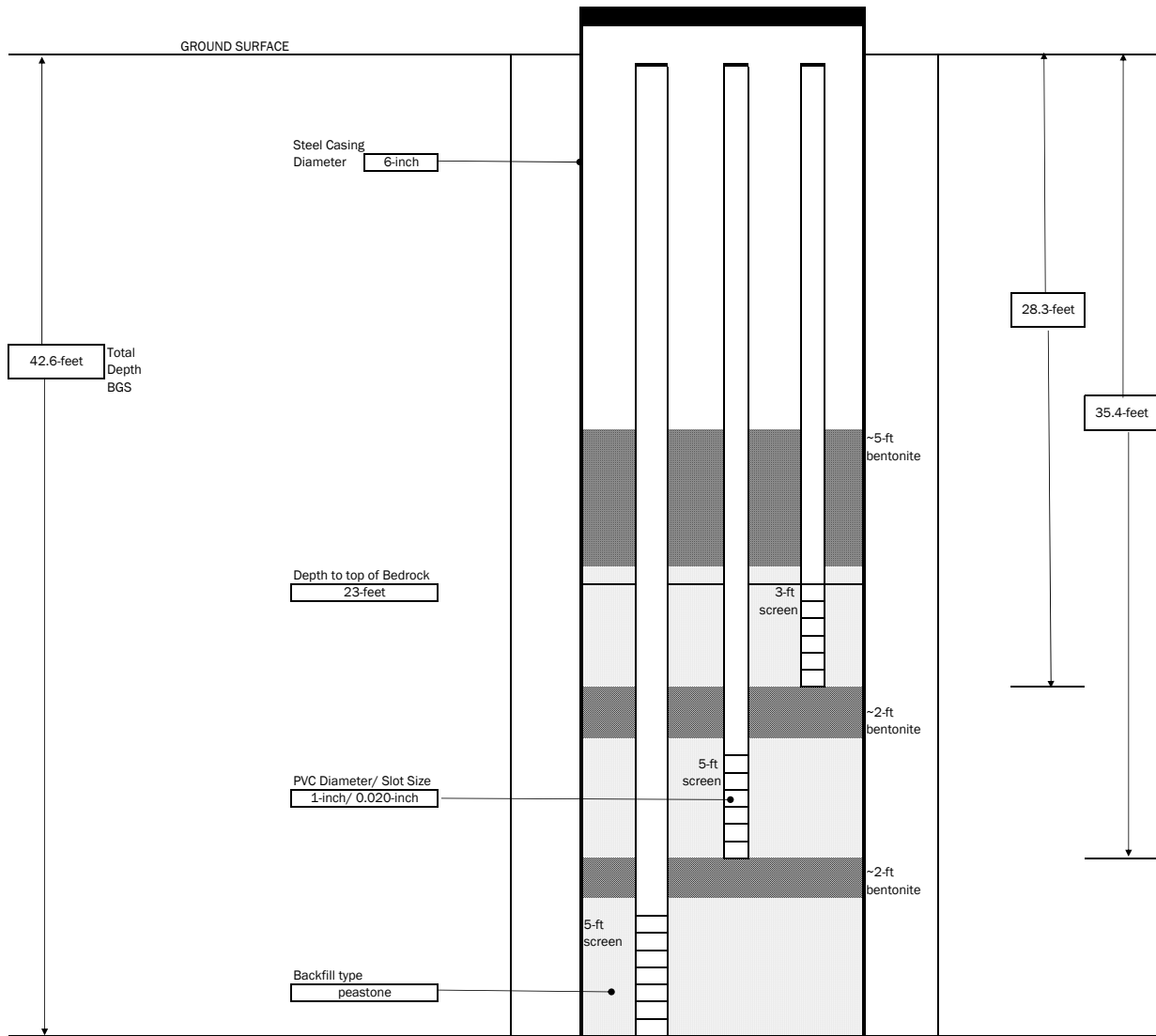
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 <p>300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS</p>	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : ML-7																									
		SHEET 1 OF 1 JOB # 210173																									
CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: Blast-enhanced bedrock trench GROUND SURFACE ELEVATION: START DATE: 10/9/2017	DATUM: END DATE: 10/10/2017																									
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																										
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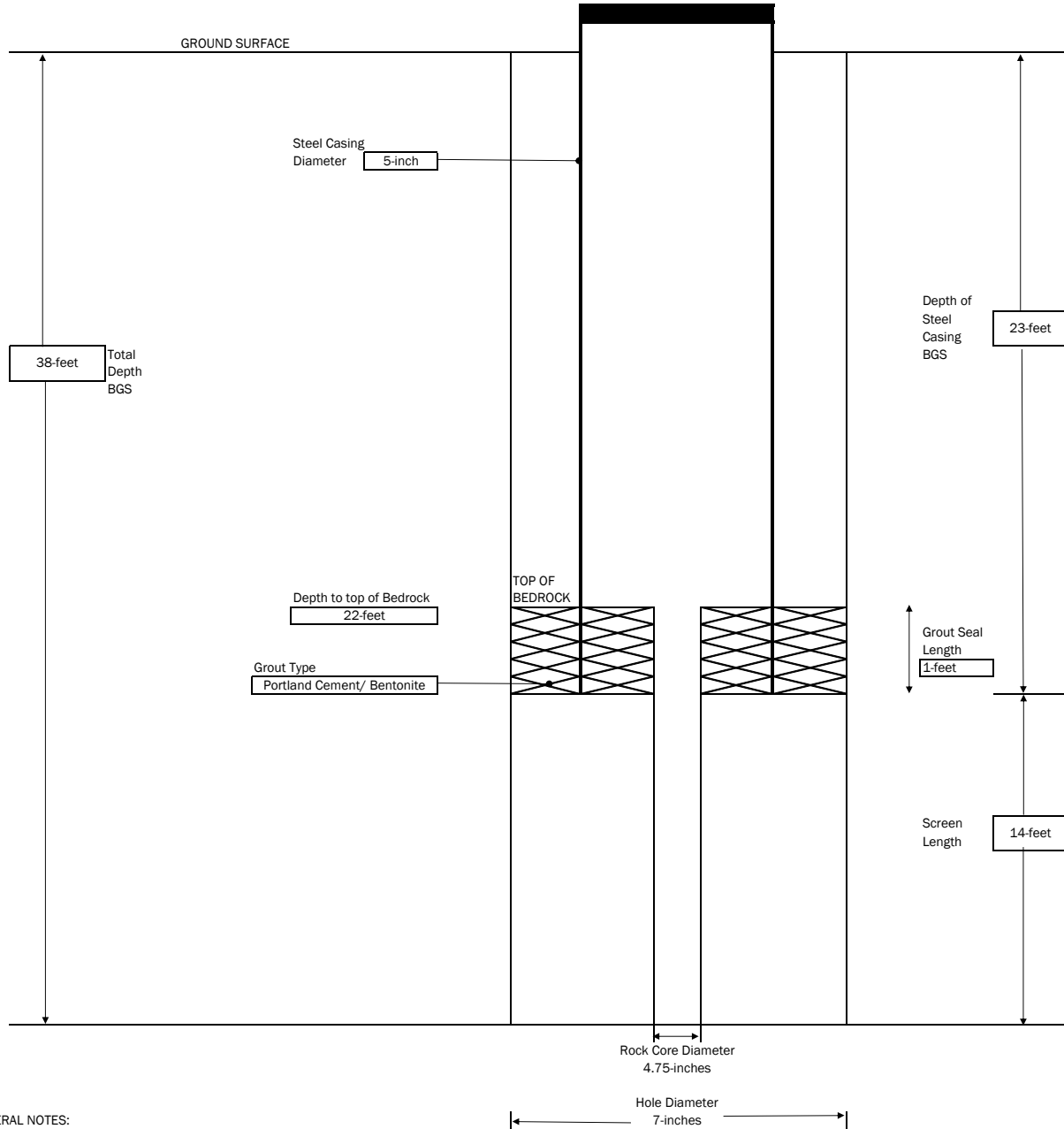
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		SHEET 1 OF 1 JOB # 210173																									
CONTRACTOR: Nothnagle DRILLER: Neil Short LABELLA REPRESENTATIVE: A. Aquilina/ A. Engelbert	BORING LOCATION: Blast-enhanced bedrock trench GROUND SURFACE ELEVATION: START DATE: 10/10/2017	DATUM: END DATE: 10/11/2017																									
TYPE OF DRILL RIG: CME85 AUGER SIZE AND TYPE: OVERBURDEN SAMPLING METHOD: NA ROCK DRILLING METHOD: 6" roller bit	WATER LEVEL DATA																										
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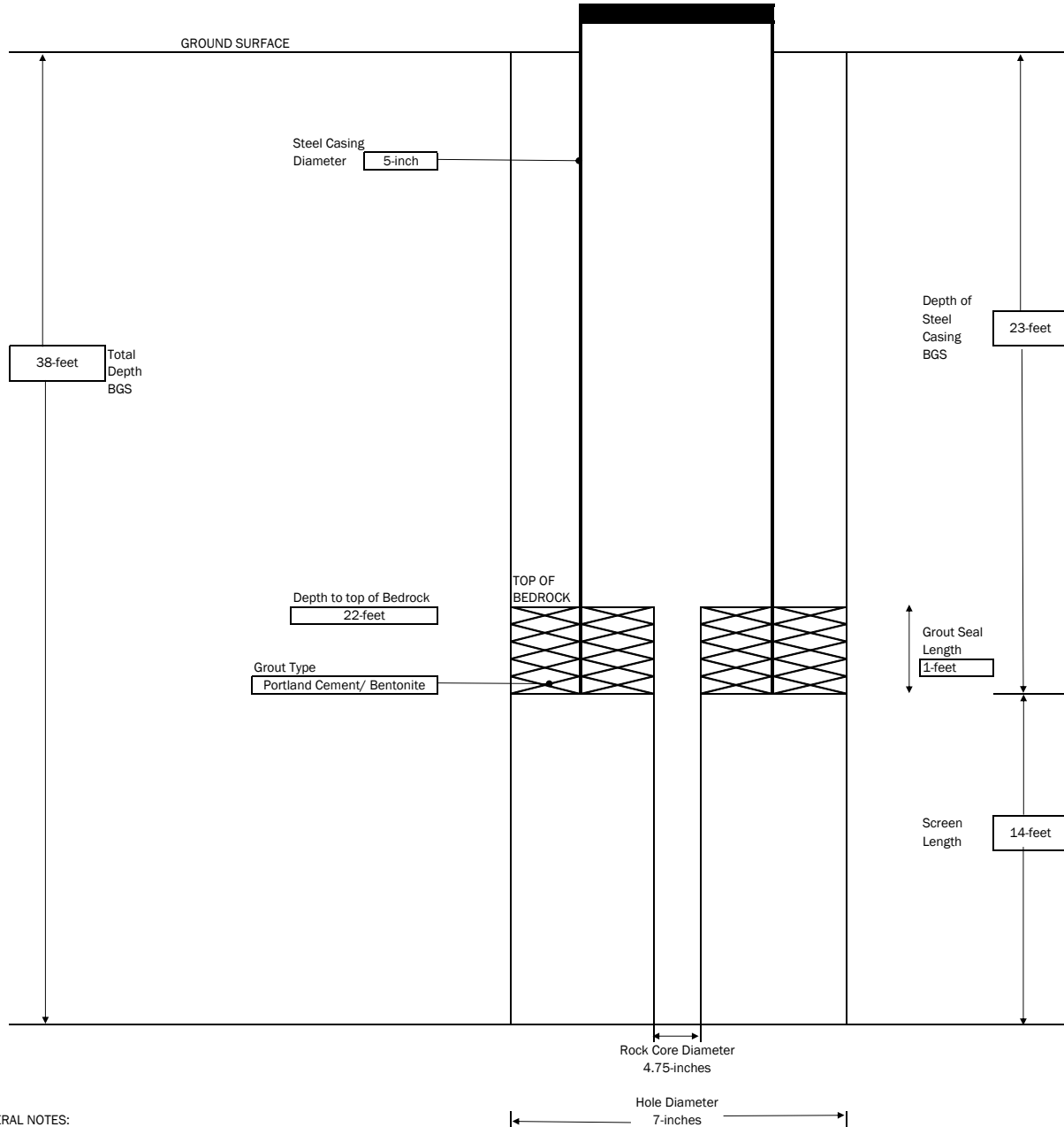
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 LaBella 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : IP-1																														
	SHEET 1 OF 1 JOB # 210173	CONTRACTOR: Cascade DRILLER: Oiden LABELLA REPRESENTATIVE: A. Aquilina	BORING LOCATION: Blast-enhanced bedrock trench GROUND SURFACE ELEVATION: DATUM: START DATE: 10/23/2017 END DATE: 10/23/2017																													
TYPE OF DRILL RIG: Sonic Rig AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Sonic (7") ROCK DRILLING METHOD: Sonic (4.75")	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">WATER LEVEL DATA</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>CASING</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		WATER LEVEL DATA					DATE	TIME	WATER	CASING	REMARKS																				
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 LaBella 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	PROJECT Former Emerson Street Landfill 1700 Emerson Street, Rochester NY P-1 Plume Pilot Test	MONITORING WELL : IP-2																														
	SHEET 1 OF 1 JOB # 210173	CONTRACTOR: Cascade DRILLER: Oiden LABELLA REPRESENTATIVE: A. Aquilina	BORING LOCATION: Blast-enhanced bedrock trench GROUND SURFACE ELEVATION: DATUM: START DATE: 10/24/2017 END DATE: 10/24/2017																													
TYPE OF DRILL RIG: Sonic Rig AUGER SIZE AND TYPE: NA OVERBURDEN SAMPLING METHOD: Sonic (7") ROCK DRILLING METHOD: Sonic (4.75")	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: center;">WATER LEVEL DATA</th> </tr> <tr> <th style="width: 15%;">DATE</th> <th style="width: 15%;">TIME</th> <th style="width: 15%;">WATER</th> <th style="width: 15%;">CASING</th> <th style="width: 40%;">REMARKS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		WATER LEVEL DATA					DATE	TIME	WATER	CASING	REMARKS																				
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 - 4) BGS = BELOW GROUND SURFACE



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/18/2017
 Weather: Sunny, 55-65°F

WELL I.D.: ML-2S

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.8'
 Depth of Well: 30.25' Length of Well Screen: 3.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 29.3'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
0935	28	0	5.76	20.58	4.23	-	3.94	84	29.1	
0940	28	0.05	7.05	18.24	4.98	62.0	3.15	90	29.14	
0945	28	0.05	7.04	18.04	5.02	59.8	2.62	92	29.12	
0950	28	0.05	7.04	19.05	4.94	58.2	2.48	93	29.11	
0955	28	0.05	7.04	18.48	4.98	55.4	2.64	95	29.09	
1000	28	0.05	7.05	18.33	4.98	54.5	2.70	95	29.10	
1005	28	0.05	7.05	18.28	4.96	52.1	2.68	66	29.15	
1010	28	0.05	7.06	18.14	4.94	50.6	2.76	-20	29.20	
1015	28	0.10	7.05	18.06	4.94	50.2	2.80	-25	29.21	
1020	28	0.10	7.05	17.95	4.93	49.3	3.08	-50	29.30	Well dry. Left to recover overnight.

Total 0.10 Gallons Purged

Purge Time Start: 0935 Purge Time End: 1020 Final Static Water Level: 29.30

OBSERVATIONS

Notes:
 Well recovered overnight and sampled on 10/19/2017 at 0845.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/18/2017
 Weather: Sunny, 60°F

WELL I.D.: ML-2I

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 29.02'
 Depth of Well: 37.15' Length of Well Screen: 5.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 36.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
1150	56	0.0	6.6	24.62	4.16	22.5	1.56	25	29.15	
1155	56	0.1	6.55	21.74	4.31	22.9	1.10	22	29.15	
1200	56	0.15	6.55	21.32	4.31	22.1	0.99	17	29.15	
1205	56	0.20	6.54	20.64	4.32	21.1	0.96	8	29.15	
1210	56	0.25	6.53	20.33	4.31	21.1	0.91	-5	29.15	
1215	56	0.25	6.53	19.85	4.31	20.1	0.94	-26	29.15	
1220	56	0.25	6.52	19.57	4.32	18.7	1.01	-39	29.15	
1225	56	0.30	6.52	19.35	4.31	18.6	1.01	-62	29.15	
1230	56	0.30	6.52	19.23	4.31	18.2	0.99	-70	29.15	
1235	56	0.35	6.52	19.20	4.30	17.5	0.98	-76	29.15	
1240	56	0.35	6.52	19.12	4.29	17.4	0.84	-88	29.15	
1245	56	0.35	6.52	19.12	4.28	17.0	0.85	-90	29.15	
1250	56	0.40	6.51	19.17	4.27	17.0	0.85	-92	29.15	
1255	56	0.40	6.51	19.14	4.28	16.5	0.88	-94	29.15	Sampled at 1255.

Total 0.40 Gallons Purged

Purge Time Start: 1150 Purge Time End: 1255 Final Static Water Level: 29.15'

OBSERVATIONS

Notes:
 MS/MSD and Duplicate collected for VOCs.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/18/2017
 Weather: Sunny, 70°F

WELL I.D.: ML-2D

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 29.0'
 Depth of Well: 43.0' Length of Well Screen: 5.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 42.4'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
1445	56	0.0	6.59	23.85	3.83	63.4	2.71	-16	29.0	
1450	56	0.05	6.57	23.53	3.89	58.9	1.97	-7	29.0	
1455	56	0.10	6.55	22.14	3.87	50.7	3.37	-3	29.0	
1500	56	0.10	6.55	21.91	3.82	47.1	3.25	-4	29.0	
1505	56	0.10	6.53	22.22	3.82	44.9	3.19	-2	29.0	
1510	56	0.15	6.54	20.64	3.85	42.1	3.16	0	29.0	
1515	56	0.15	6.54	20.30	3.89	36.6	3.06	-2	29.0	
1520	56	0.15	6.54	20.28	3.91	33.0	2.98	-6	29.0	
1525	56	0.20	6.54	20.13	3.91	32.5	2.98	-7	29.0	
1530	56	0.20	6.54	20.00	3.88	29.3	2.83	-16	29.0	
1535	56	0.25	6.54	19.95	3.88	28.4	2.81	-18	29.0	
1540	56	0.35	6.54	19.85	3.91	25.8	2.75	-23	29.0	
1545	56	0.40	6.53	19.44	3.90	23.5	2.73	-30	29.0	
1550	56	0.45	6.53	19.45	3.90	23.1	2.68	-32	29.0	Sampled at 1550

Total 0.45 Gallons Purged

Purge Time Start: 1445 Purge Time End: 1550 Final Static Water Level: 29.0

OBSERVATIONS

Notes:



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 Rochester, New York 14614
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Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/19/2017
 Weather: Sunny, 65°F

WELL I.D.: ML-7S

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 24.9'
 Depth of Well: 28.25 Length of Well Screen: 3.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 27.65
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
1000	40	0.0	6.88	15.04	7.64	137	4.36	-124	25.33	
1005	40	0.05	6.88	15.15	7.64	105	3.95	-121	25.37	
1010	40	0.10	6.87	15.39	7.65	105	3.47	-116	25.40	
1015	40	0.10	6.86	16.03	7.66	77.1	3.07	-113	25.42	
1020	40	0.10	6.86	16.45	7.66	59.5	2.82	-112	25.44	
1025	40	0.15	6.86	16.95	7.66	57.4	2.62	-112	25.46	
1030	40	0.15	6.86	17.48	7.65	57.2	2.40	-113	25.49	
1035	40	0.15	6.86	18.65	7.65	57.7	2.33	-114	25.51	
1040	40	0.20	6.86	18.21	7.64	57.9	2.13	-116	25.53	
1045	40	0.20	6.86	18.30	7.64	56.0	2.15	-117	25.55	
1050	40	0.25	6.86	18.64	7.62	57.5	2.05	-118	25.60	
1055	40	0.30	6.85	19.04	7.61	56.4	1.98	-119	25.63	
1100	40	0.30	6.85	19.25	7.61	56.0	1.92	-120	25.66	
1105	40	0.35	6.85	19.42	7.59	56.3	1.91	-121	25.69	
1110	40	0.35	6.85	19.73	7.57	56.9	1.83	-122	25.72	

Total _____ Gallons Purged

Purge Time Start: _____ Purge Time End: _____ Final Static Water Level: _____

OBSERVATIONS

Notes:
 Continued on next sheet...



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/19/2017
 Weather: Sunny, 65°F

WELL I.D.: ML-7S Cont'd

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 24.9'
 Depth of Well: 28.25 Length of Well Screen: 3.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 27.65
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
1120	40	0.40	6.86	19.98	7.56	57.2	1.75	-123	25.79	
1125	40	0.45	6.86	20.18	7.55	54.0	1.75	-124	25.80	
1130	40	0.50	6.85	20.31	7.54	53.4	1.68	-124	25.76	
1135	40	0.55	6.86	20.50	7.52	53.8	1.68	-125	25.73	
1140	40	0.60	6.85	20.54	7.50	53.4	1.63	-125	25.73	
1145	40	0.65	6.85	20.48	7.53	52.1	1.61	-126	25.73	
1150	40	0.70	6.85	20.51	7.52	51.3	1.59	-126	25.73	
1155	40	0.75	6.85	20.35	7.51	51.2	1.58	-127	25.73	
1200	40	0.80	6.85	21.10	7.43	49.1	1.57	-129	25.73	
1205	40	0.90	6.85	20.43	7.52	51.3	1.55	-127	25.73	
1210	40	1.0	6.85	20.37	7.51	49.2	1.52	-127	25.73	
1215	40	1.1	6.85	20.42	7.52	46.7	1.55	-128	25.76	
1220	40	1.2	6.85	20.44	7.52	44.7	1.56	-131	25.76	Sampled at 1220.

Total 1.2 Gallons Purged

Purge Time Start: 1000 Purge Time End: 1220 Final Static Water Level: 25.76'

OBSERVATIONS

Notes:



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/19/2017
 Weather: Sunny, 70°F

WELL I.D.: ML-7I

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.21'
 Depth of Well: 35.3' Length of Well Screen: 5.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 34.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
1330	56	0.0	6.78	21.24	4.24	556	2.54	84	28.22	
1335	56	0.05	6.73	20.05	4.32	419	1.32	88	28.22	
1340	56	0.05	6.71	19.19	4.41	288	0.98	87	28.22	
1345	56	0.10	6.69	18.86	4.47	199	0.78	84	28.22	
1350	56	0.10	6.68	18.63	4.51	143	0.66	77	28.22	
1355	56	0.15	6.66	18.50	4.51	99.5	0.61	69	28.21	
1400	56	0.20	6.64	18.29	4.51	63.5	0.62	58	28.21	
1405	56	0.20	6.63	18.10	4.51	41.9	0.63	49	28.21	
1410	56	0.20	6.62	18.04	4.50	28.1	0.64	47	28.21	
1415	56	0.25	6.61	17.98	4.48	12.1	0.66	48	28.21	
1420	56	0.25	6.61	18.01	4.47	12.1	0.66	48	28.20	
1425	56	0.30	6.61	18.02	4.47	9.49	0.66	48	28.20	
1430	56	0.35	6.60	18.05	4.46	6.20	0.65	46	28.20	
1435	56	0.40	6.60	17.97	4.45	7.18	0.65	43	28.20	
1440	56	0.45	6.59	17.82	4.44	5.25	0.64	39	28.20	Sampled at 1440.

Total 0.45 Gallons Purged

Purge Time Start: 1330 Purge Time End: 1440 Final Static Water Level: 28.20'

OBSERVATIONS

Notes:



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/20/2017
 Weather: Sunny, 55°F

WELL I.D.: ML-7D

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.35'
 Depth of Well: 42.5' Length of Well Screen: 5.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 41.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
0815	56	0.0	6.53	12.92	6.78	192	4.54	70	28.36	
0820	56	0.05	6.43	12.98	7.06	165	1.80	76	28.36	
0825	56	0.10	6.42	13.00	7.06	153	1.46	80	28.36	
0830	56	0.3	6.41	13.07	6.97	143	1.15	82	28.36	
0835	56	0.4	6.43	13.21	6.60	135	0.90	83	28.36	
0840	56	0.7	6.44	13.22	6.53	124	0.88	81	28.36	
0845	56	0.8	6.44	13.27	6.44	115	0.81	69	28.36	
0850	56	0.9	6.45	13.38	6.07	106	0.75	62	28.36	
0855	56	1.0	6.46	13.58	5.77	93.6	0.68	55	28.36	
0900	56	1.1	6.47	13.66	5.69	79.9	0.66	53	28.36	
0905	56	1.2	6.48	13.83	5.55	68.4	0.63	50	28.36	
0910	56	1.2	6.48	13.97	5.44	58.3	0.62	49	28.36	
0915	56	1.3	6.49	14.08	5.37	50.6	0.59	47	28.36	
0920	56	1.5	6.51	14.19	5.31	43.8	0.56	47	28.36	
0925	56	1.6	6.50	14.24	5.29	38.1	0.57	47	28.36	

Total _____ Gallons Purged

Purge Time Start: _____ Purge Time End: _____ Final Static Water Level: _____

OBSERVATIONS

Notes:
 Continued on next sheet...



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 10/20/2017
 Weather: Sunny, 55°F

WELL I.D.: ML-7D Cont'd

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.35'
 Depth of Well: 42.5' Length of Well Screen: 5.0'
 Measuring Point: Top of Casing Depth to Top of Pump: 41.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	±3%	+/- 3%	<10 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
0930	56	1.7	6.50	14.39	5.22	33.1	0.55	48	28.36	
0935	56	1.8	6.51	14.51	5.20	28.3	0.53	48	28.36	
0940	56	1.9	6.50	14.58	5.16	25.3	0.51	48	28.36	
0945	56	2.0	6.49	14.71	5.14	22.3	0.49	50	28.36	
0950	56	2.0	6.49	14.79	5.12	19.6	0.48	50	28.36	
0955	56	2.2	6.52	14.83	5.10	17.3	0.48	49	28.36	
1000	56	2.3	6.51	14.94	5.09	16.7	0.46	50	28.36	
1005	56	2.4	6.50	15.00	5.07	14.2	0.45	51	28.36	
1010	56	2.5	6.50	15.07	5.05	12.9	0.46	51	28.36	
1015	56	2.6	6.51	15.12	5.05	12.3	0.47	54	28.36	
1020	56	2.7	6.50	15.30	5.05	11.4	0.48	54	28.36	Sampled at 1020

Total 2.7 Gallons Purged

Purge Time Start: 0815 Purge Time End: 1020 Final Static Water Level: 28.36'

OBSERVATIONS

Notes:



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

WELL I.D.: LBA-SBW-16

Project Name: Former Emerson Street Landfill (FESL)
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 1/2/2018
 Weather: Snow, 10°F

WELL SAMPLING INFORMATION

Well Diameter: 4" Static Water Level: 30.75'
 Depth of Well: 51.4' Length of Well Screen: N/A
 Measuring Point: Top of Riser Depth to Top of Pump: 45.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	+/-3%	+/- 3%	<50 +/- 10%	+/- 10%	+/- 10 mV	+/-0.3'	
1255	200	0.0	7.14	8.9	4.295	26.8	1.66	-146	30.7	
1300	200	0.20	7.05	10.6	4.493	26.7	0.03	-232	30.7	
1305	200	0.75	7.04	10.6	4.423	25.7	0.27	-240	30.7	
1310	200	1.0	7.04	10.6	4.415	23.0	0.35	-245	30.7	
1315	200	1.25	7.05	10.5	4.404	21.6	0.37	-248	30.7	
1320	200	2.0	7.05	10.6	4.383	19.3	0.20	-257	30.7	
1325	200	2.25	7.02	10.6	4.365	18.0	0.12	-261	30.7	
1330	200	3.0	7.01	10.7	4.362	16.3	-0.06	-270	30.7	
1335	200	3.25	7.04	10.6	4.373	18.2	-0.06	-283	30.7	
1340	200	3.75	7.01	10.5	4.366	15.8	-0.06	-290	30.7	
1345	200	4.0	7.02	10.6	4.360	15.9	-0.03	-306	30.7	
1350	200	4.1	7.02	10.6	4.360	15.3	0.01	-307	30.7	
1355	200	4.5	7.01	10.6	4.350	14.0	-0.04	-319	30.7	
1400	200	4.7	7.01	10.6	4.342	13.0	-0.09	-321	30.7	
1405	200	5.0	7.01	10.6	4.342	12.7	-0.09	-324	30.7	

Total 5.0 Gallons Purged

Purge Time Start: 1255 Purge Time End: 1405 Final Static Water Level: 30.7'

OBSERVATIONS

Notes: Sampled at 1405 for all parameters. Dissolved oxygen sensor appears to be malfunctioning and giving negative readings.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: Former Emerson Street Landfill (FESL)
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 1/2/2018
 Weather: Sunny, 12°F

WELL I.D.: ML-2I

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.65'
 Depth of Well: 35.35 Length of Well Screen: 5.0'
 Measuring Point: Top of casing Depth to Top of Pump: 34.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	+/- 3%	+/- 3%	<50 +/- 10%	+/- 10%	+/- 10 mV	+/- 0.3'	
0920	58	0.0	9.29	6.5	1.884	18.1	0.20	-176	28.70	
0925	58	0.05	9.43	7.2	1.937	13.4	0.24	-209	28.71	
0930	58	0.10	9.44	7.6	1.989	18.0	0.27	-296	28.72	
0935	58	0.15	9.14	7.7	1.934	23.3	0.36	-397	28.74	
0940	58	0.20	9.39	7.7	1.988	27.5	0.38	-423	28.75	
0945	58	0.25	9.34	7.7	2.107	17.2	0.35	-428	28.75	
0950	58	0.30	9.33	7.6	2.205	17.7	0.29	-431	28.77	
0955	58	0.35	9.27	7.4	2.241	12.2	0.22	-446	28.77	
1000	58	0.40	9.29	7.5	2.268	9.2	0.06	-456	28.77	
1005	58	0.45	9.31	7.3	2.287	6.6	-0.03	-462	28.77	
1010	58	0.50	9.31	7.3	2.311	5.9	-0.05	-464	28.77	
1015	58	0.55	9.28	7.2	2.334	5.3	-0.08	-466	28.80	
1020	58	0.60	9.27	7.1	2.365	4.6	-0.10	-470	28.80	
1025	58	0.65	9.25	7.3	2.377	4.0	-0.11	-474	28.80	
1030	58	0.70	9.22	7.2	2.420	3.4	-0.12	-478	28.80	

Total 0.70 Gallons Purged

Purge Time Start: 0920 Purge Time End: 1030 Final Static Water Level: 28.80'

OBSERVATIONS

Notes: Sampled at 1030. Dissolved oxygen sensor appears to be malfunctioning and giving negative readings.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: Former Emerson Street Landfill (FESL)
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 1/3/2018
 Weather: Sunny, 5°F

WELL I.D.: ML-2D

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.65'
 Depth of Well: 43.70' Length of Well Screen: 5.0'
 Measuring Point: Top of casing Depth to Top of Pump: 39.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	+/- 3%	+/- 3%	<50 +/- 10%	+/- 10%	+/- 10 mV	+/- 0.3'	
1140	58	0.0	7.40	5.2	3.665	340	0.52	-101	28.6	
1145	58	0.05	7.10	6.2	3.944	221	0.33	-95	28.6	
1150	58	0.10	7.03	5.5	3.933	123	0.18	-103	28.6	
1155	58	0.15	7.02	4.8	3.871	57.0	0.11	-109	28.6	
1200	58	0.20	7.00	5.3	3.872	39.0	0.07	-114	28.6	
1205	58	0.25	6.99	4.9	3.927	31.5	0.04	-118	28.6	
1210	58	0.30	6.99	5.0	3.927	30.6	0.02	-120	28.6	
1215	58	0.35	6.99	4.7	3.949	26.6	0.0	-123	28.6	
1220	58	0.40	6.99	4.6	3.949	24.2	-0.01	-125	28.6	
1225	58	0.45	6.99	4.7	3.944	24.4	-0.02	-126	28.6	
1230	58	0.50	6.99	4.6	3.938	22.2	-0.03	-129	28.6	

Total 0.5 Gallons Purged

Purge Time Start: 1140 Purge Time End: 1230 Final Static Water Level: 28.6'

OBSERVATIONS

Notes: Sampled at 1230 for all parameters. Dissolved oxygen sensor appears to be malfunctioning and giving negative readings.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

WELL I.D.: ML-7I

Project Name: Former Emerson Street Landfill (FESL)
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 1/8/2018
 Weather: Snow, 30°F

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 27.96'
 Depth of Well: 38.50' Length of Well Screen: 5.0'
 Measuring Point: Top of casing Depth to Top of Pump: 36.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	+/- 3%	+/- 3%	<50 +/- 10%	+/- 10%	+/- 10 mV	+/- 0.3'	
1025	40	0.0	6.68	3.6	1.309	62.5	1.44	-247	27.96	
1030	40	0.05	8.78	6.8	2.616	151.2	1.30	-273	27.96	
1035	40	0.10	8.39	7.8	3.006	90.9	0.63	-269	27.96	
1040	40	0.15	8.21	8.1	3.138	60.6	0.56	-264	27.96	
1045	40	0.20	8.11	8.2	3.214	41.5	0.48	-260	27.96	
1050	40	0.25	8.04	8.2	3.263	29.1	0.45	-255	27.96	
1055	40	0.30	7.95	8.3	3.314	20.1	0.41	-252	27.96	
1100	40	0.35	7.90	8.2	3.329	15.7	0.37	-251	27.96	
1105	40	0.40	7.86	8.1	3.349	14.0	0.36	-251	27.96	
1110	40	0.45	7.83	8.1	3.358	12.5	0.34	-251	27.96	

Total 0.45 Gallons Purged

Purge Time Start: 1025 Purge Time End: 1110 Final Static Water Level: 27.96'

OBSERVATIONS

Notes: Sampled at 1110 for all parameters. MS/MSD and duplicate (Dupe 2) collected for VOCs.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: Former Emerson Street Landfill (FESL)
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 1/8/2018
 Weather: Snow, 30°F

WELL I.D.: ML-7D

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 28.0'
 Depth of Well: 42.55' Length of Well Screen: 5.0'
 Measuring Point: Top of casing Depth to Top of Pump: 40.0'
 Pump Type: Bladder Tubing Type: LDPE 1/4"

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/sec)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	+/- 3%	+/- 3%	<50 +/- 10%	+/- 10%	+/- 10 mV	+/- 0.3'	
1245	50	0.0	7.74	8.0	3.341	34.6	1.31	-205	28.0	
1250	50	0.05	6.84	7.9	5.023	21.8	0.82	-220	28.0	
1255	50	0.10	6.75	8.2	5.225	17.5	0.31	-220	28.0	
1300	50	0.15	6.79	7.8	5.014	12.6	0.19	-227	28.0	
1305	50	0.20	6.85	7.7	4.585	11.8	0.13	-230	28.0	
1310	50	0.25	6.89	7.6	4.396	9.0	0.11	-231	28.0	
1315	50	0.30	6.95	7.5	3.979	8.0	0.10	-231	28.0	
1320	50	0.35	7.00	7.5	3.894	7.1	0.09	-231	28.0	
1325	50	0.40	7.05	7.6	3.652	6.6	0.06	-231	28.0	
1330	50	0.45	7.06	7.5	3.571	6.0	0.05	-231	28.0	
1335	50	0.50	7.06	7.7	3.555	6.9	0.06	-228	28.0	
1340	50	0.55	7.11	7.6	3.405	6.3	0.02	-229	28.0	
1345	50	0.60	7.13	7.6	3.332	5.8	0.01	-232	28.0	
1350	50	0.65	7.15	7.7	3.271	5.4	0.00	-234	28.0	
1355	50	0.70	7.16	7.8	3.255	5.3	0.00	-231	28.0	

Total 0.70 Gallons Purged

Purge Time Start: 1245 Purge Time End: 1355 Final Static Water Level: 28.0'

OBSERVATIONS

Notes: Sampled at 1355 for all parameters. Dissolved oxygen sensor appears to be malfunctioning and giving readings of 0.0 mg/L.



300 State Street
 Rochester, New York 14614
 Telephone: (585) 454-6110
 Facsimile: (585) 454-3066

Project Name: Former Emerson Street Landfill – Performance Monitoring Round 2
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173
 Sampled By: AJ Engelbert
 Date: 2/21/2018
 Weather: Overcast/drizzle, 40°F

WELL I.D.: ML-7I

WELL SAMPLING INFORMATION

Well Diameter: 1” Static Water Level: 26.20’
 Depth of Well: 34.95’ Length of Well Screen: 5.0’
 Measuring Point: Top of Casing Depth to Top of Pump: 32.0’
 Pump Type: Bladder Tubing Type: LDPE ¼”

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (ml/min)	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)	Depth to Water	Comments
			+/- 0.1	+/- 3%	+/- 3%	<50 +/- 10%	+ 10%	+/- 10 mV	+/- 0.3’	
0805	60	0.0	9.25	12.1	2.076	109	1.29	-239	26.48	
0810	60	0.1	8.93	12.0	2.159	64.7	0.28	-285	26.49	
0815	60	0.1	8.95	12.1	2.189	52.0	0.08	-323	26.49	
0820	60	0.2	8.84	12.1	2.211	33.5	0.02	-353	26.50	
0825	60	0.2	8.77	12.5	2.209	25.8	-0.01	-368	26.50	
0830	60	0.3	8.77	12.6	2.231	23.6	-0.02	-379	26.50	
0835	60	0.3	8.76	12.7	2.217	20.5	-0.04	-396	26.50	
0840	60	0.4	8.77	12.7	2.217	18.4	-0.04	-401	26.50	
0845	60	0.4	8.75	12.5	2.217	14.3	-0.05	-404	26.50	
0850	60	0.5	8.79	12.2	2.197	12.7	-0.06	-412	26.50	
0855	60	0.5	8.81	11.9	2.179	10.4	-0.07	-418	26.50	
0900	60	0.6	8.87	11.7	1.161	13.0	-0.07	-432	26.50	
0905	60	0.6	8.81	11.7	2.148	11.4	-0.07	-432	26.50	
0910	60	0.7	8.78	11.4	2.145	12.2	-0.08	-433	26.50	

Total 0.7 Gallons Purged

Purge Time Start: 0805 Purge Time End: 0910 Final Static Water Level: 26.50’

OBSERVATIONS

Notes: Sampled at 0910.



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WELL I.D.: ML-7-D

Project Name: Former Emerson Street Landfill
 Location: FESL
 Project No.: 210173 Phase 6A
 Sampled By: J. Porter
 Date: 6/14/18
 Weather: Sunny, 70 F

WELL SAMPLING INFORMATION

Well Diameter: _____ Static Water Level: 27.33'
 Depth of Well: _____ Length of Well Screen: _____
 Measuring Point: Top of Casing Depth to Top of Pump: _____
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Alkalinity	Iron (II)	Comments
1315			22.0	1.37	4.60	7.83	-140.2	49.7			
1320			21.2	1.47	4.68	8.09	-121.3	20.8			
1325			21.2	1.66	4.67	8.26	-76.7	10.89			
1330			22.0	1.47	4.66	7.71	-64.4	9.22			Clear
1335			22.4	1.74	4.66	7.05	-63.3	8.37			
1340			22.7	1.67	4.68	8.29	-55.6	7.93			
1345			23.0	1.40	4.64	6.53	-50.4	6.69			
1350			23.0	1.25	4.66	6.69	-45.1	5.25			
1355			22.7	1.51	4.68	6.40	-32.2	3.29			
1400			2.15	1.81	4.68	6.41	-36.3	4.04			
1405			20.2	1.96	4.65	7.15	-28.9	2.95			SAMPLE

Total 0.25 Gallons Purged

Purge Time Start: 1315 Purge Time End: 1405 Final Static Water Level: 27.31'

OBSERVATIONS

Notes:
 VOC's only – MS/MSD
 VOC's only – DUPE
 (3) 150 mL unpreserved, (15) voa vials, (1) 250 mL unpreserved, (1) 60 mL unpreserved



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WELL I.D.: LAB-SBW-15

Project Name: Former Emerson Street Landfill
Location: FESL
Project No.: 210173 Phase 6A
Sampled By: J. Porter
Date: 6/13/18
Weather: Cloudy, 74 F

WELL SAMPLING INFORMATION

Well Diameter: _____ Static Water Level: 26.53'
Depth of Well: _____ Length of Well Screen: _____
Measuring Point: Top of Casing Depth to Top of Pump: _____
Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Alkalinity	Iron (II)	Comments
1330			16.8	1.63	3.86	8.57	-161.1	11.77			
1335			14.8	0.32	3.80	8.37	-199.6	2.47			
1340			16.2	0.15	3.77	7.75	-223.6	0.92			
1345			16.6	0.12	3.82	7.55	-255.1	1.84			Strong Odor
1350			16.5	0.09	3.31	7.34	-257.1	0.71			
1355			16.8	0.08	3.32	7.22	-256.3	0.17			
1400			17.6	0.06	3.40	7.05	-256.4	2.23			Couldn't see the YSI screen due to moisture
1405			17.2	0.06	3.82	7.06	-284.4	2.75			
1410			16.7	0.06	3.85	7.14	-247.9	4.31			
1415			16.7	0.05	3.85	6.50	-232.1	3.67			Clear
1420			17.2	0.05	3.84	6.99	-227.6	3.37			
1425			17.1	0.05	3.86	6.04	-209.4	3.48			
1430			17.0	0.05	3.86	6.52	-202.8	3.00			SAMPLE

Total 2.0 Gallons Purged

Purge Time Start: 1330 Purge Time End: 1430 Final Static Water Level: 25.5'

OBSERVATIONS

Notes:
(6) Voa vials
(3) 125 mL unpreserved
(1) 60 mL unpreserved
(1) 250 mL NAOH, Zn Acetate



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WELL I.D.: ML-7-I

Project Name: Former Emerson Street Landfill
 Location: FESL
 Project No.: 210173 Phase 6A
 Sampled By: J. Porter
 Date: 6/14/18
 Weather: Sunny, 66 F

WELL SAMPLING INFORMATION

Well Diameter: _____ Static Water Level: 27.32'
 Depth of Well: _____ Length of Well Screen: _____
 Measuring Point: Top of Casing Depth to Top of Pump: _____
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Alkalinity	Iron (II)	Comments
925			16.6	0.93	3.50	9.89	-167.7	49.1			
930			16.8	0.37	3.47	9.48	-223.1	7.0			
935			17.7	0.26	3.48	9.81	-225.4	62.9			
940			18.0	0.22	3.48	9.18	-204.8	44.4			
945			18.0	0.23	3.49	9.71	-219.4	33.1			
950			18.1	0.19	3.49	9.37	-222.3	24.9			
955			18.3	0.18	3.48	9.15	-222.2	188			
1000			18.6	0.17	3.48	8.93	-222.5	23.4			
1005			18.7	0.17	3.48	8.71	-227.5	23.4			SAMPLE

Total 0.5 Gallons Purged

Purge Time Start: 925 Purge Time End: 1005 Final Static Water Level: 27.26'

OBSERVATIONS

Notes:
 (6) voa vials
 (3) 125 mL unpreserved
 (1) 60 mL unpreserved
 (1) 250 mL NaOH, Zn Acetate



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WELL I.D.: LAB-SBW-16

Project Name: Former Emerson Street Landfill
 Location: FESL
 Project No.: 210173 Phase 6A
 Sampled By: J. Porter
 Date: 6/13/18
 Weather: Cloudy, Rainy, 67 F

WELL SAMPLING INFORMATION

Well Diameter: _____ Static Water Level: 30.33'
 Depth of Well: _____ Length of Well Screen: _____
 Measuring Point: Top of Casing Depth to Top of Pump: _____
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Alkalinity	Iron (II)	Comments
925	40	-	16.4	1.43	4.00	-	649.9	-			Turbid clear
930	30	0.05	17.0	1.07	4.01	-	687.1	-			Reset YSI
935	30	0.1	17.4	0.50	4.02	6.94	-77.1	-			
940	30	0.2	17.5	0.48	4302	6.87	-88.8	-			
945	30	-	17.5	0.45	4.02	7.05	-99.5	-			
950	30	-	17.5	0.36	4.02	6.64	-84.4	-			
955	30	-	17.4	0.24	4.02	6.64	-98.2	-			
1000	30	-	17.3	0.20	4.03	6.63	-119.3	-			
1010	30	-	15.4	0.26	4.05	6.95	-123.1	7.66			Clear
1015	30	0.5	15.4	0.21	4.05	6.60	-111.0	14.4			SAMPLE

Total 0.5 Gallons Purged

Purge Time Start: 925 Purge Time End: 1010 Final Static Water Level: _____

OBSERVATIONS

Notes:
 VOC's Only- MS/MSD
 VOC's Only- DUPE
 (15) Voa Vials
 (3) 150 mL unpreserved
 (1) 60 mL unpreserved
 (1) 250 mL NAOH, Zn Acetate



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WELL I.D.: ML-2-D

Project Name: Former Emerson Street Landfill
 Location: FESL
 Project No.: 210173 Phase 6A
 Sampled By: J. Porter
 Date: 6/15/18
 Weather: Sunny, 70 F

WELL SAMPLING INFORMATION

Well Diameter: _____ Static Water Level: 28.18'
 Depth of Well: _____ Length of Well Screen: _____
 Measuring Point: Top of PVC Depth to Top of Pump: _____
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Alkalinity	Iron (II)	Comments
1200			18.2	0.65	2.74	6.63	-163.3	36.0			Clear
1205			17.8	0.33	3.75	6.64	-124.0	14.9			
1210			17.8	0.24	3.74	6.64	-173.2	11.05			
1215			17.6	0.19	3.77	6.40	-150.7	10.06			No odor
1220			18.0	0.15	3.78	6.02	-131.4	8.01			
1225			17.7	0.14	3.78	5.87	-118.2	5.54			
1230			18.0	0.12	3.79	5.54	-99.5	6.17			
1235			18.1	0.11	3.79	6.68	-180.1	3.25			
1240			18.1	0.10	3.79	6.68	-157.9	5.38			
1245			18.1	0.09	3.80	6.69	-157.8	3.90			SAMPLE

Total 0.5 Gallons Purged

Purge Time Start: 1200 Purge Time End: 1245 Final Static Water Level: 27.97'

OBSERVATIONS

Notes:
 VOC's Only- MS/MSD
 VOC's Only- DUPE
 (15) Voa Vials
 (3) 150 mL unpreserved
 (1) 60 mL unpreserved
 (1) 250 mL NAOH, Zn Acetate



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WELL I.D.: ML-2-I

Project Name: Former Emerson Street Landfill
 Location: FESL
 Project No.: 210173 Phase 6A
 Sampled By: J. Porter
 Date: 6/15/18
 Weather: Sunny, 57 F

WELL SAMPLING INFORMATION

Well Diameter: _____ Static Water Level: 28.18'
 Depth of Well: _____ Length of Well Screen: _____
 Measuring Point: Top of PVC Depth to Top of Pump: ~35'
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)	Alkalinity	Iron (II)	Comments
1400			24.4	0.09	3.59	6.79	-221.3	16.1			Clear
1405			23.2	0.08	2.82	6.62	-312.3	16.2			
1410			24.0	0.09	2.96	6.52	-346.5	14.2			
1415			24.5	0.08	3.07	8.44	-350.7	13.8			
1420			25.0	0.07	3.12	8.40	-360.3	15.59			
1425			25.1	0.06	3.20	8.32	-362.3	12.51			
1430			25.3	0.06	3.26	8.27	-362.5	13.5			
1435			25.5	0.08	3.30	8.25	-363.5	12.3			
1440			25.7	0.04	3.30	8.23	-364.2	11.1			SAMPLE

Total 0.50 Gallons Purged

Purge Time Start: 1400 Purge Time End: 1440 Final Static Water Level: 28.07'

OBSERVATIONS

Notes:
 (6) voa vials
 (3) 125 mL unpreserved
 (1) 60 mL unpreserved
 (1) 250 mL NAOH, Zn Acetate



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Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173 PH 6A
 Sampled By: S. Rife
 Date: 2/26/2019
 Weather: 20-25° F, ~10 mph winds

WELL I.D.: ML-71

WELL SAMPLING INFORMATION

Well Diameter: 1" Static Water Level: 26.77'
 Depth of Well: ~34' Length of Well Screen: _____
 Measuring Point: Top of PVC Depth to Top of Pump: ~30'
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
11:29	40	0	8.05	3.3	13.83	-	2.40	-150			Clear
11:35	40		8.09	4.9	10.80	18.8	0.76	-174			
11:40	40		8.11	5.1	10.29	-	0.53	-183			
11:45	40		8.13	5.2	9.85	12.3	0.40	-189			
11:50	40		-	-	-	-	-	-			Assist J. Folger
11:55	40		8.17	5.4	9.56	9.8	0.33	-198			
12:00	40		8.19	5.4	9.59	8.7	0.26	-202			
12:05	40		8.20	5.7	9.21	-	0.26	-206			
12:10	40		8.21	5.9	8.93	7.1	0.26	-208			
12:15	40	1.0	8.21	5.8	9.02	6.9	0.25	-209			Sample

Total 1.0 Gallons Purged

Purge Time Start: 11:29 Purge Time End: 12:15 Final Static Water Level: 26.79'

OBSERVATIONS

- Duplicate taken here
- 4x HCL VOA



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Project Name: FESL
Location: 1700 Emerson Street, Rochester, New York
Project No.: 210173 PH 6A
Sampled By: J. Folger
Date: 2/26/2019
Weather: 17° F, Partly Cloudy, 10 mph winds

WELL I.D.: LAB-SBW-15

WELL SAMPLING INFORMATION

Well Diameter: 4" Static Water Level: 26.23
Depth of Well: _____ Length of Well Screen: _____
Measuring Point: TOC Depth to Top of Pump: ~35'
Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
10:00		0	7.18	7.6	4.07	2.34	0.78	13.1			
10:05			7.14	8.9	4.06	2.18	0.57	-29.7			
10:10			7.15	9.6	4.06	2.82	0.62	-41.3			
10:15			7.15	9.7	4.06	-6.35*	0.68	-47.5			*Very small particulate possibly
10:20			7.15	9.9	4.05	-6.07*	0.75	-51.3			Obscuring readings
10:25			7.16	8.6	4.04	-4.69*	1.22	-52.3			
10:30			7.15	8.1	4.06	*	0.88	-52.6			
10:45			7.13	8.4	4.05	6.68	1.04	-51.4			
10:50			7.15	10.4	4.04	6.46	1.02	-54.3			
10:55			7.17	10.7	4.04	5.81	1.05	-56.6			
11:00			7.16	10.5	4.04	5.14	1.14	-57.5			
11:05	160mL/min	2.5	-	-	-	-	-	-			Sample 6x HCL VOA

Total 2.5 Gallons Purged

Purge Time Start: 10:00 Purge Time End: 11:05 Final Static Water Level: _____

OBSERVATIONS

- Portable battery failure at 10:30, switched to car battery
- MS/MSD taken at this location



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Project Name: FESL
Location: 1700 Emerson Street, Rochester, New York
Project No.: 210173 PH 6A
Sampled By: J. Folger
Date: 2/26/2019
Weather: 17° F, Partly Cloudy, 10 mph winds

WELL I.D.: LAB-SBW-16

WELL SAMPLING INFORMATION

Well Diameter: 4" Static Water Level: 29.87
Depth of Well: _____ Length of Well Screen: _____
Measuring Point: TOC Depth to Top of Pump: ~37'
Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
12:25		0	7.24	6.0	3.75	46.7	3.23	-6.8			
12:30			7.58	7.9	3.85	63.4	6.02	-23.7			
12:35			7.82	8.5	3.86	75.8	7.89	-1.1			
12:40			7.97	8.5	3.86	35	8.25	24.3			
12:45			8.08	8.3	3.85	38	8.42	42.4			
12:50			8.15	8.2	3.85	38	9.00	56.5			
12:55			8.20	7.9	3.85	39	10.38	67.6			
13:00			8.27	7.8	3.84	35	9.16	73.7			
13:05			8.30	7.9	3.83	20	9.13	79.4			
13:10			8.34	7.5	3.84	27	10.19	84.3			
13:15			8.36	8.1	3.80	76.6	10.39	90.8			
13:20			8.37	8.2	3.81	83.8	10.31	93.3			
13:25			8.41	7.2	3.83	87.0	10.91	97.9			
13:30			8.40	6.8	3.80	90.4	10.26	101.7			
13:35			8.35	6.7	3.82	92.2	10.04	105.5			

Total 4 Gallons Purged

Purge Time Start: 12:25 Purge Time End: 15:25 Final Static Water Level: _____

OBSERVATIONS

Page 1 of 3



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Project Name: FESL
Location: 1700 Emerson Street, Rochester, New York
Project No.: 210173 PH 6A
Sampled By: J. Folger
Date: 2/26/2019
Weather: 17° F, Partly Cloudy, 10 mph winds

WELL I.D.: LAB-SBW-16

WELL SAMPLING INFORMATION

Well Diameter: 4" Static Water Level: 29.87
Depth of Well: _____ Length of Well Screen: _____
Measuring Point: TOC Depth to Top of Pump: ~37'
Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
13:40			8.29	7.0	3.82	93.5	10.02	108.4			
13:45			8.27	7.0	3.84	85.1	10.09	111.1			
13:50			8.17	6.9	3.81	84.0	9.83	112.6			
13:55			8.21	7.5	3.79	83.1	9.93	114.5			
14:00			8.19	7.1	3.83	82.5	9.97	116.0			
14:05			8.19	6.4	3.86	80.4	9.92	117.5			
14:10			8.19	6.8	3.83	81.0	9.83	118.2			
14:15			8.18	6.9	3.84	80.3	10.02	119.3			
14:20			8.13	6.3	3.84	81.2	9.95	120.5			
14:25			8.16	5.8	3.86	79.9	10.08	121.2			
14:30			8.15	6.2	3.82	79.9	9.87	121.6			
14:35			8.11	6.1	3.82	79.0	9.83	122.4			
14:40			8.13	6.0	3.83	77.1	10.00	123.3			
14:45			8.13	5.8	3.83	77.2	10.01	124.1			
14:50			8.12	6.2	3.83	75.5	10.02	124.4			

Total 4 Gallons Purged

Purge Time Start: 12:25 Purge Time End: 15:25 Final Static Water Level: _____

OBSERVATIONS

Page 2 of 3



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Project Name: FESL
 Location: 1700 Emerson Street, Rochester, New York
 Project No.: 210173 PH 6A
 Sampled By: J. Folger
 Date: 2/27/2019
 Weather: 14° F, Overcast, 10 mph winds

WELL I.D.: GMX-MW3

WELL SAMPLING INFORMATION

Well Diameter: 2" Static Water Level: 25.3
 Depth of Well: _____ Length of Well Screen: _____
 Measuring Point: Top of PVC Depth to Top of Pump: ~30'
 Pump Type: Bladder Pump Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	pH	Temp °C	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	Redox (mV)			Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV			
10:15		0	7.78	4.9	2.46	-1	9.35	-81.2			
10:20			7.60	5.4	2.47	-13	6.36	-70.8			
10:25			7.43	5.3	2.50	17	5.58	-76.9			
10:30			7.27	5.6	2.51	16.3	4.24	-73.2			
10:35			7.14	5.7	2.50	-12	3.55	-65.4			
10:40			7.07	5.6	2.51	-16	3.05	-57.2			
10:45			7.01	5.9	2.48	-17	2.76	-65.3			
10:50			6.96	5.7	2.49	-	2.50	-63.0			
10:55			6.94	5.9	2.47	-	2.47	-60.4			
11:00			6.94	5.8	2.50	-	2.38	-59.4			
11:05	80 mL/min	1									Sample

Total 1 Gallons Purged

Purge Time Start: 10:15 Purge Time End: 11:05 Final Static Water Level: _____

OBSERVATIONS

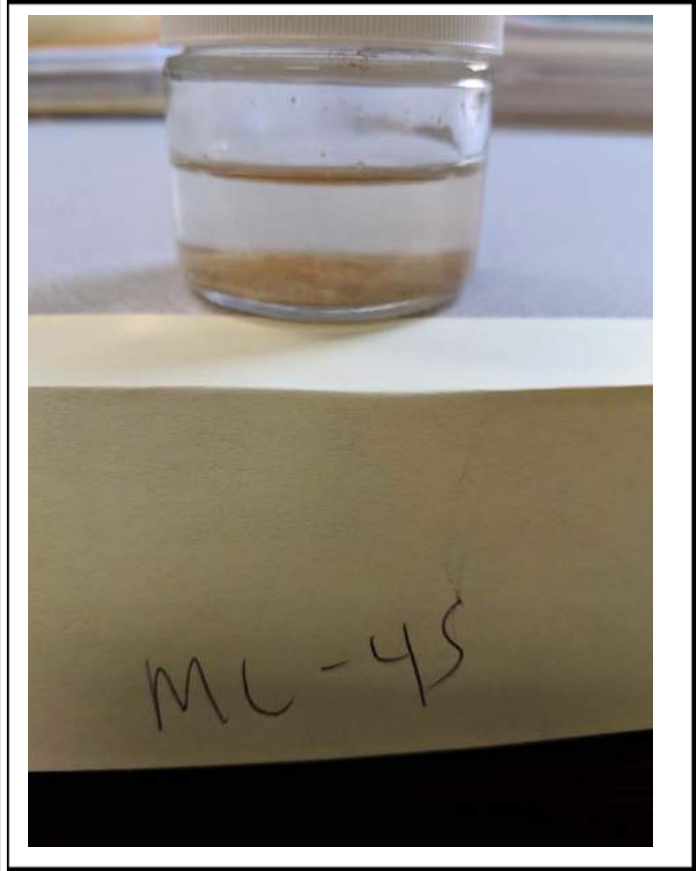
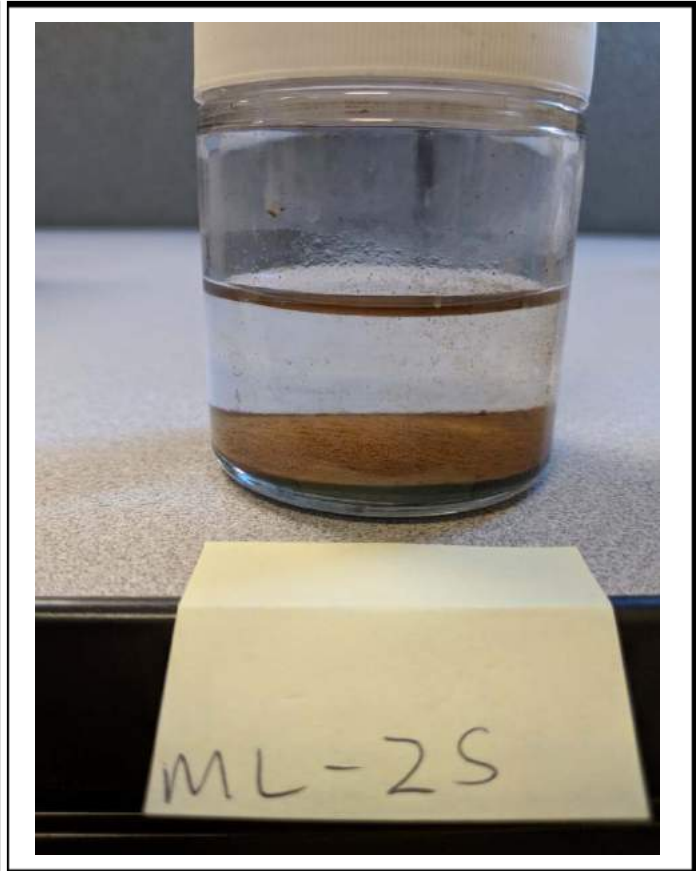
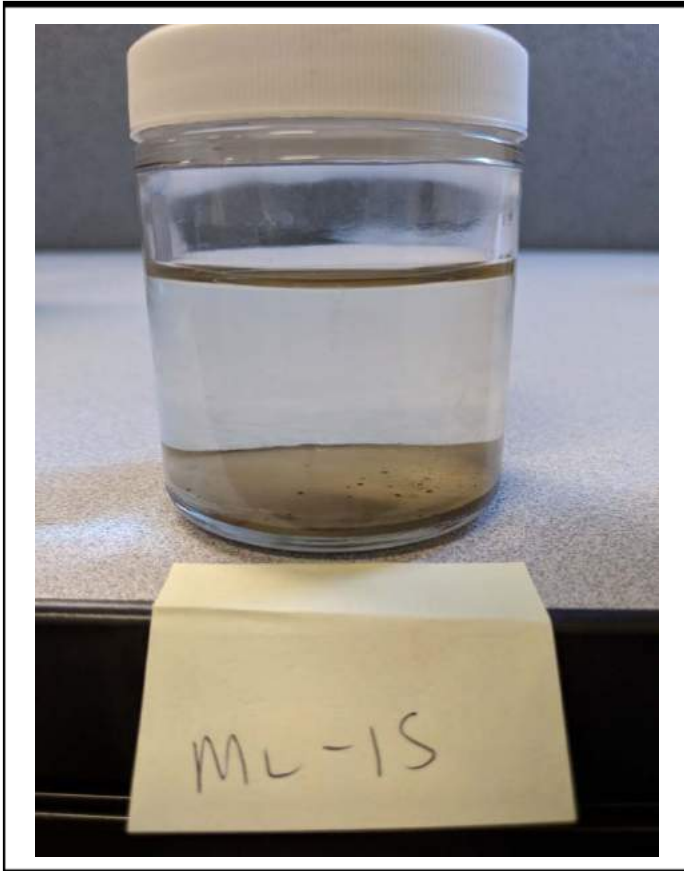
- Turbidity readings appear to have been impacted by small suspended particles and flash freezing. Measurements stopped after 10:45.



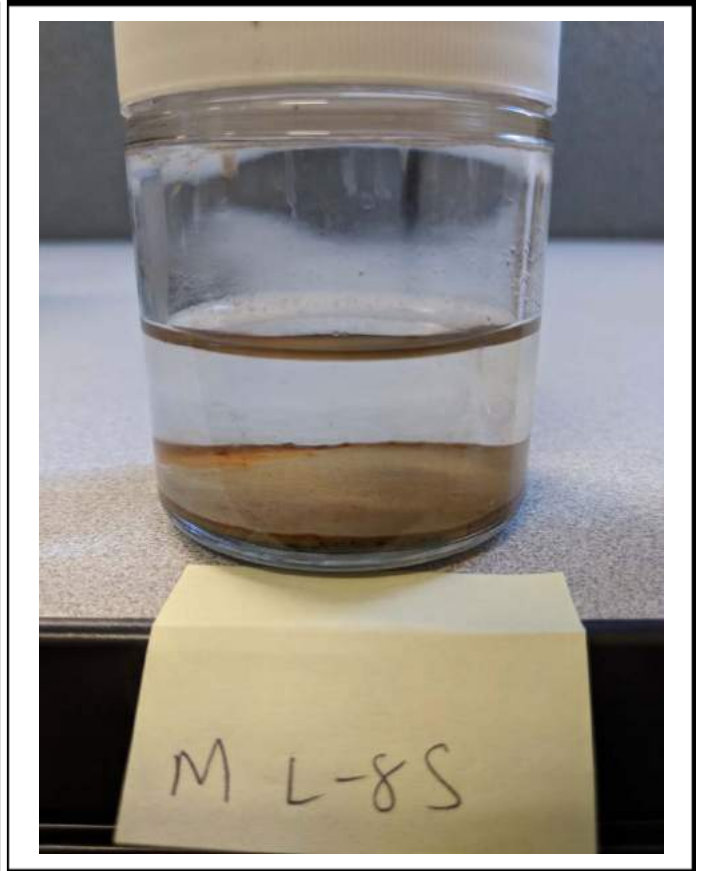
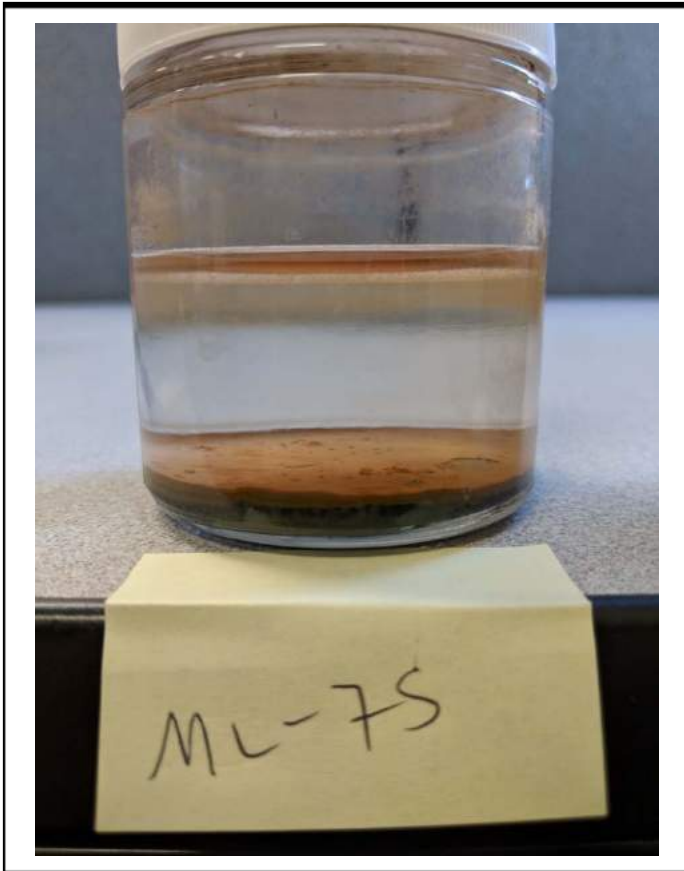
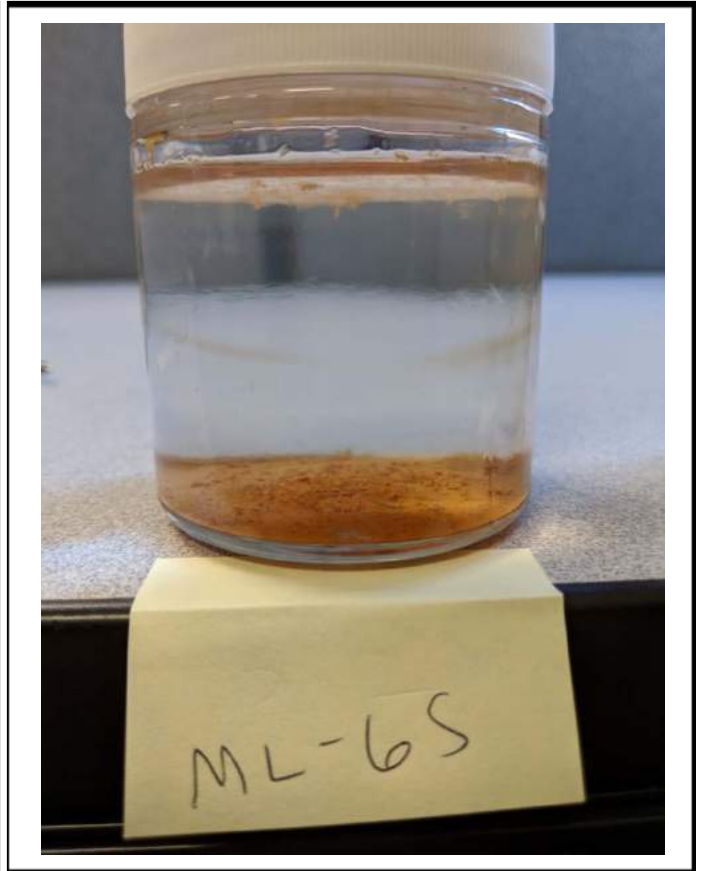
APPENDIX 2

Photograph Log

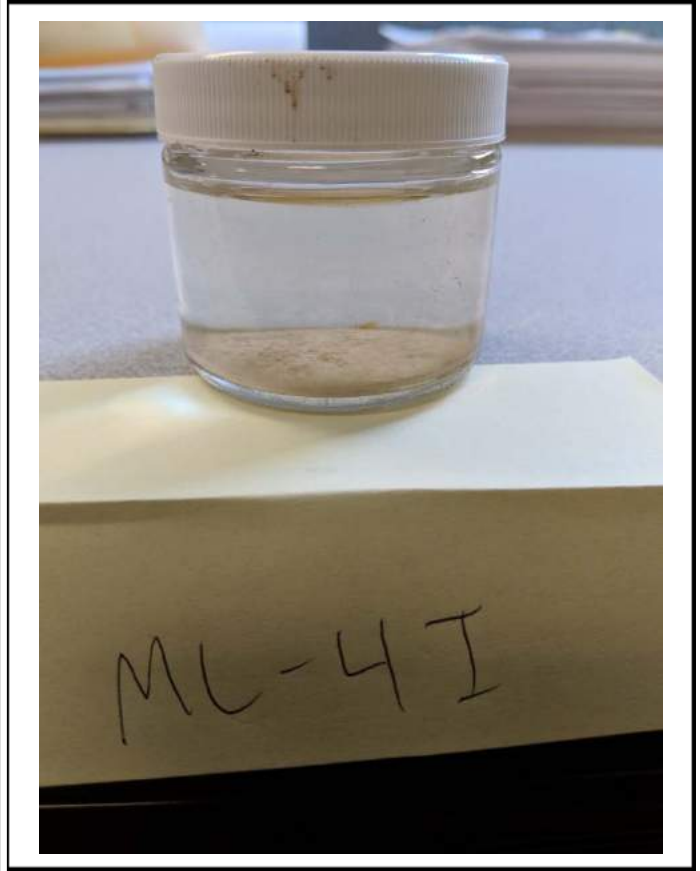
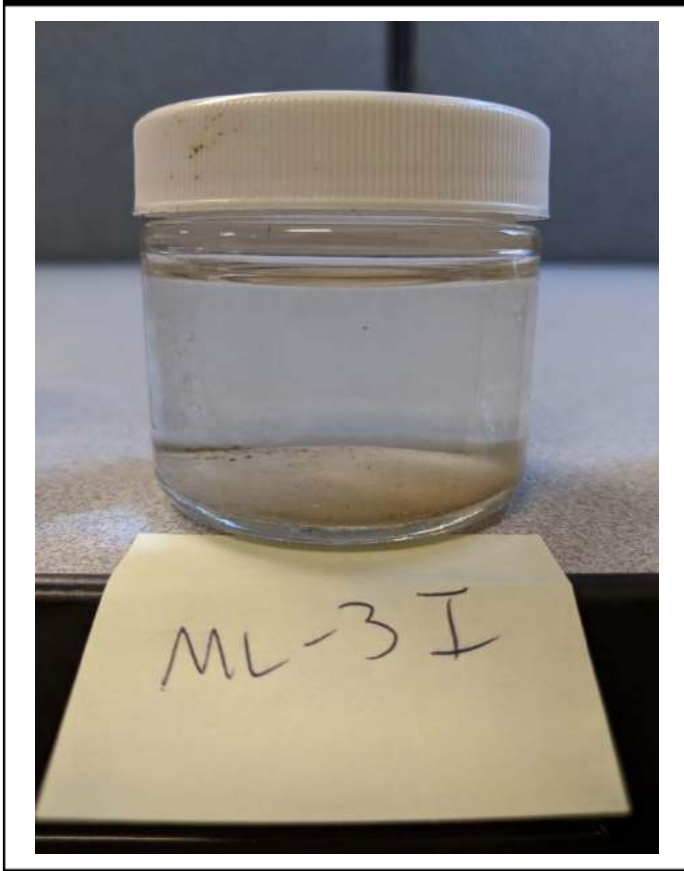
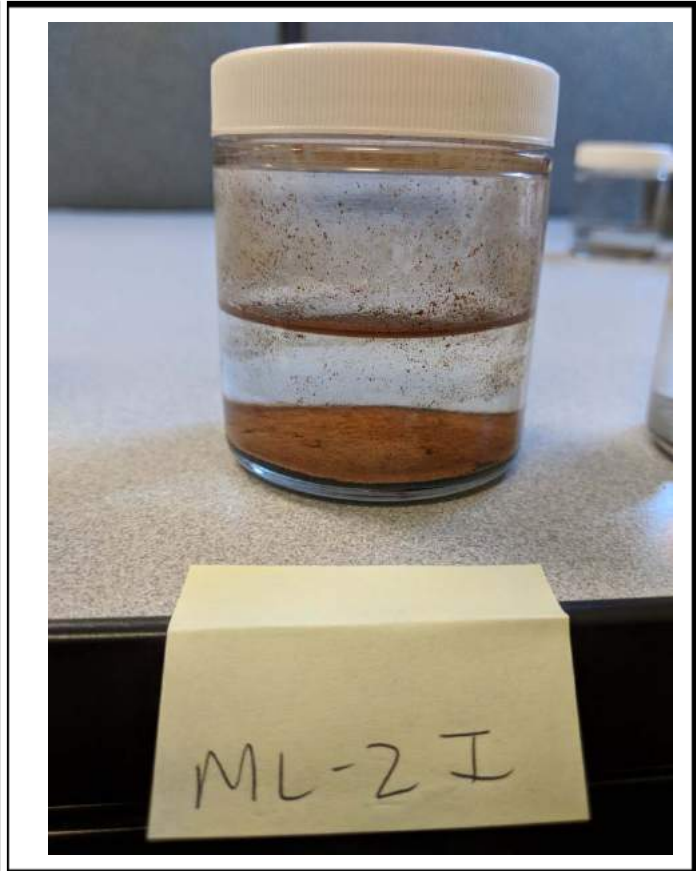
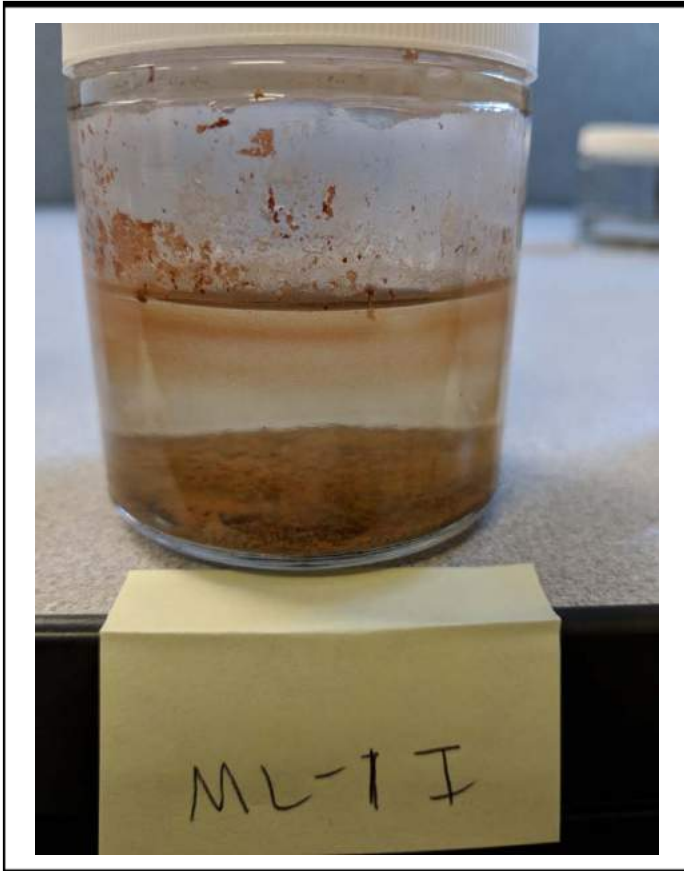
Post-Injection Samples



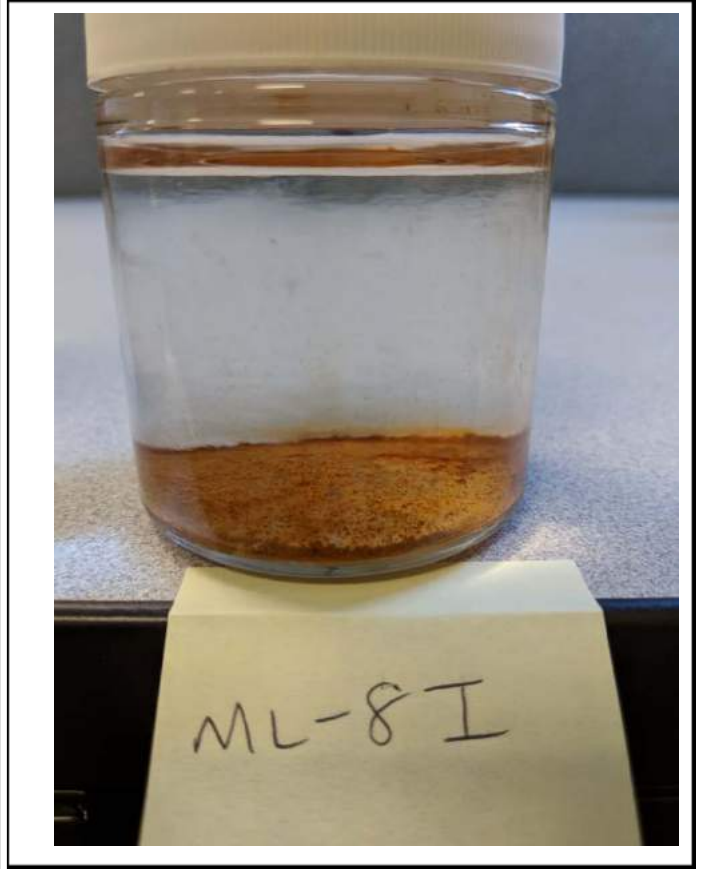
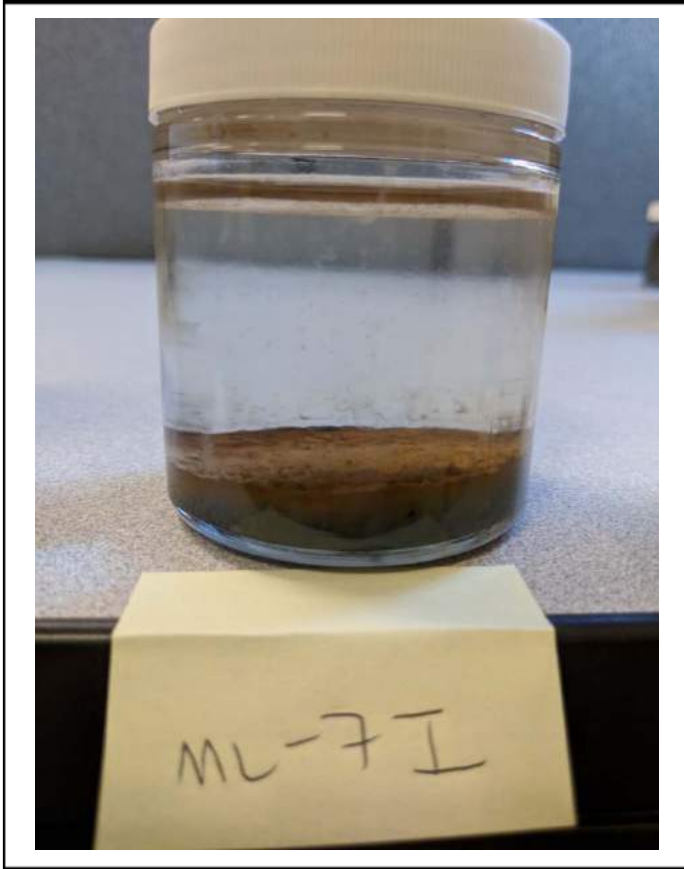
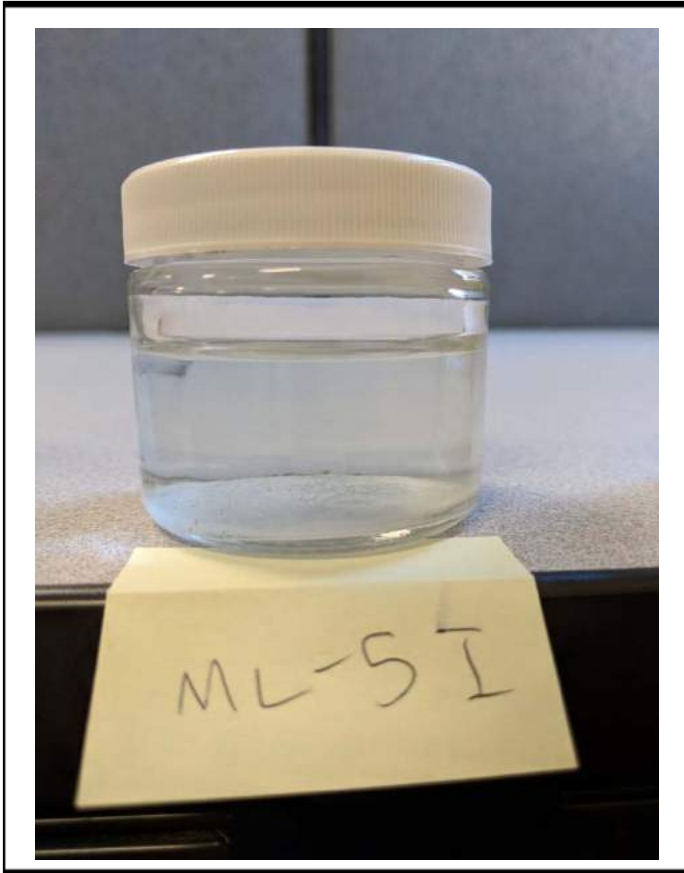
Post-Injection Samples



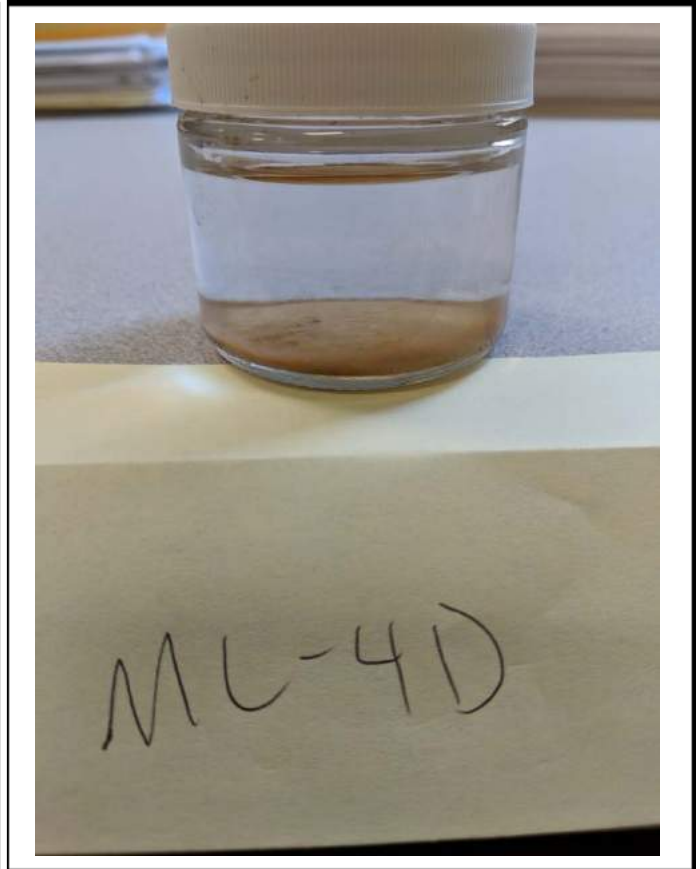
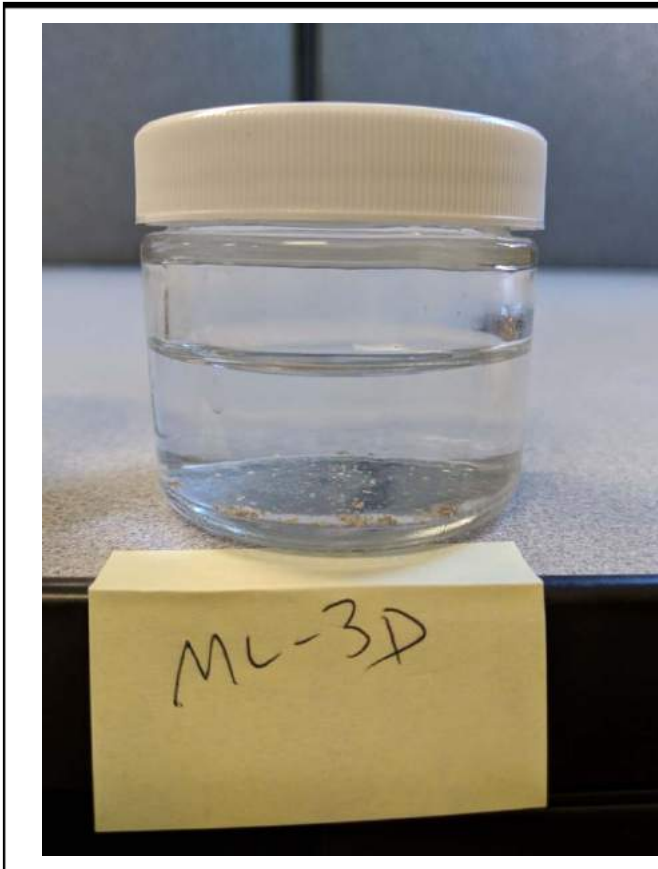
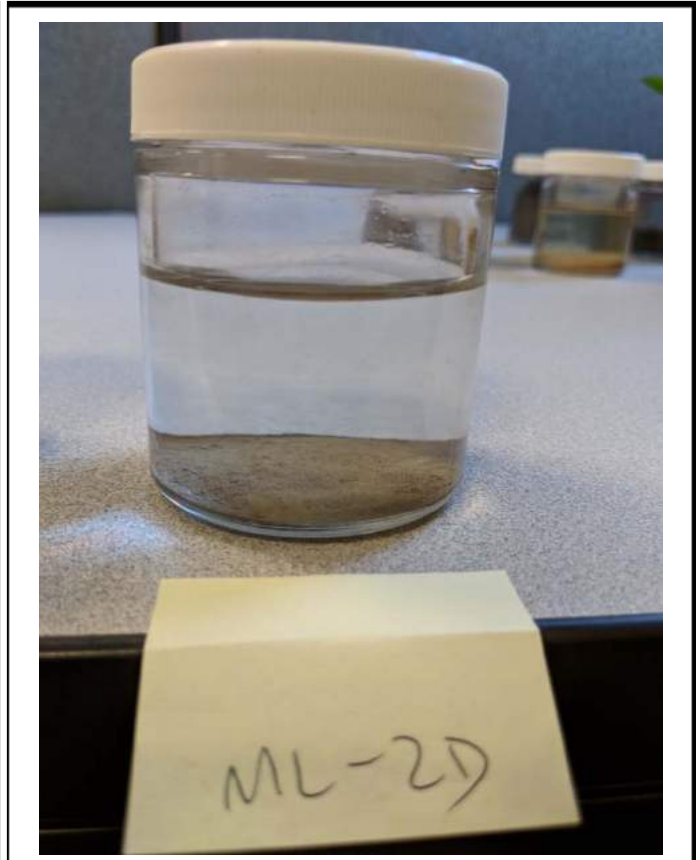
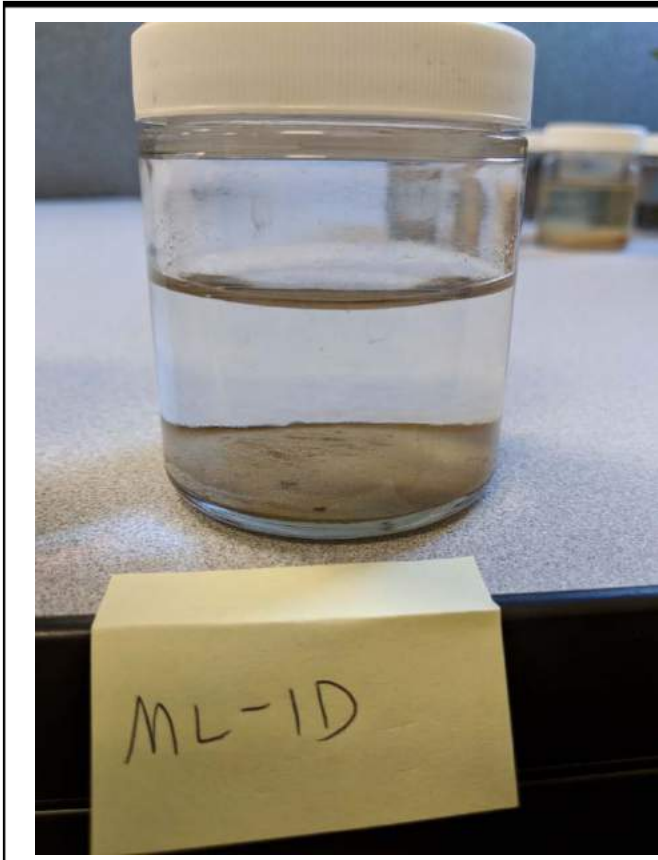
Post-Injection Samples



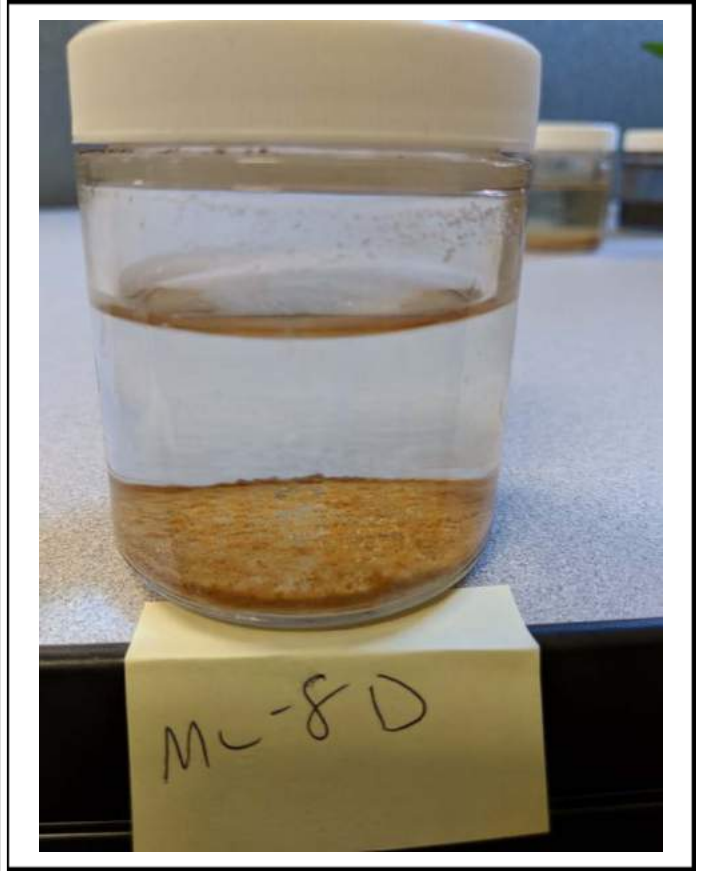
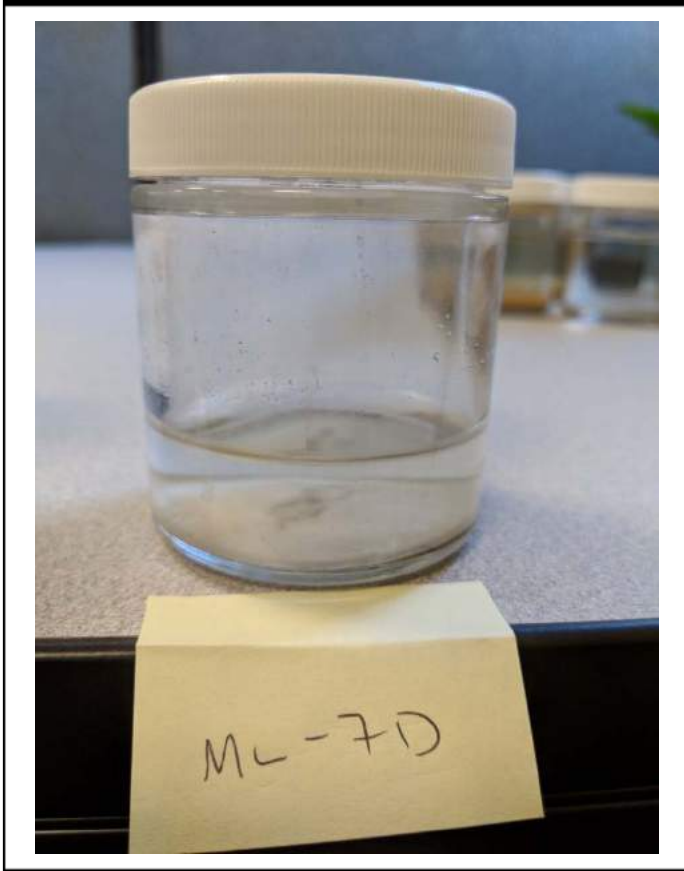
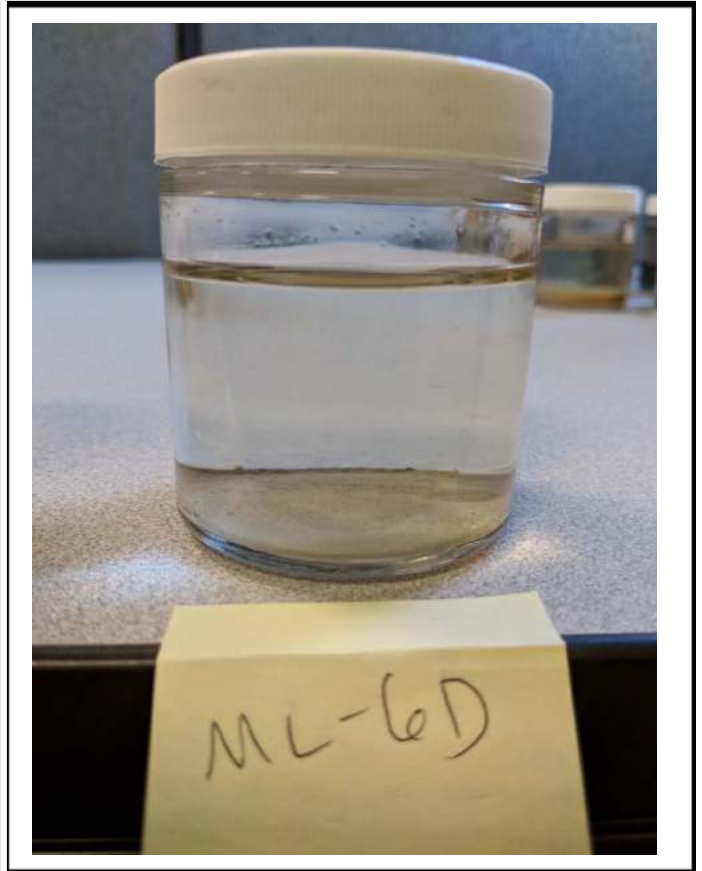
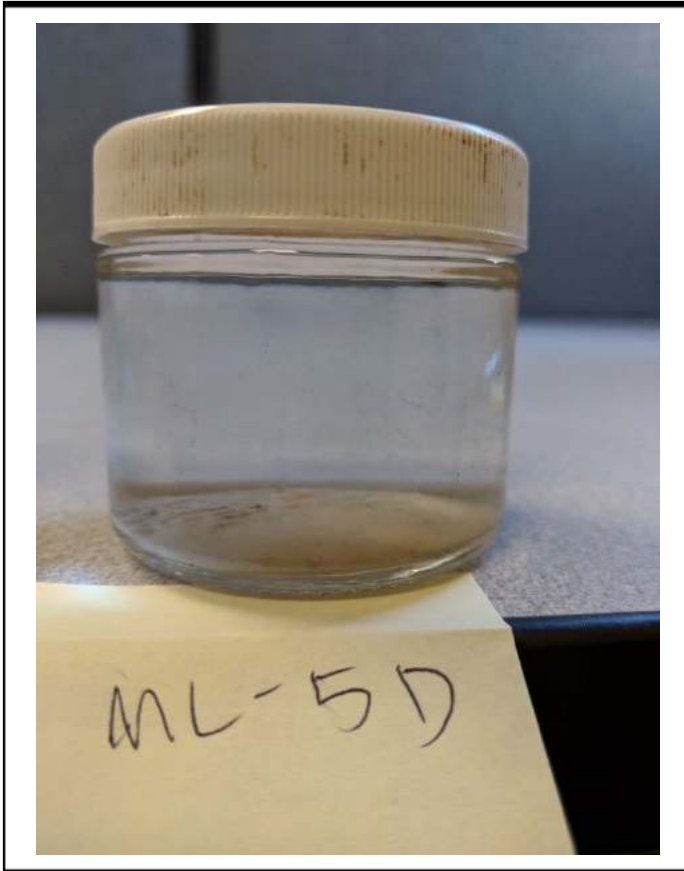
Post-Injection Samples



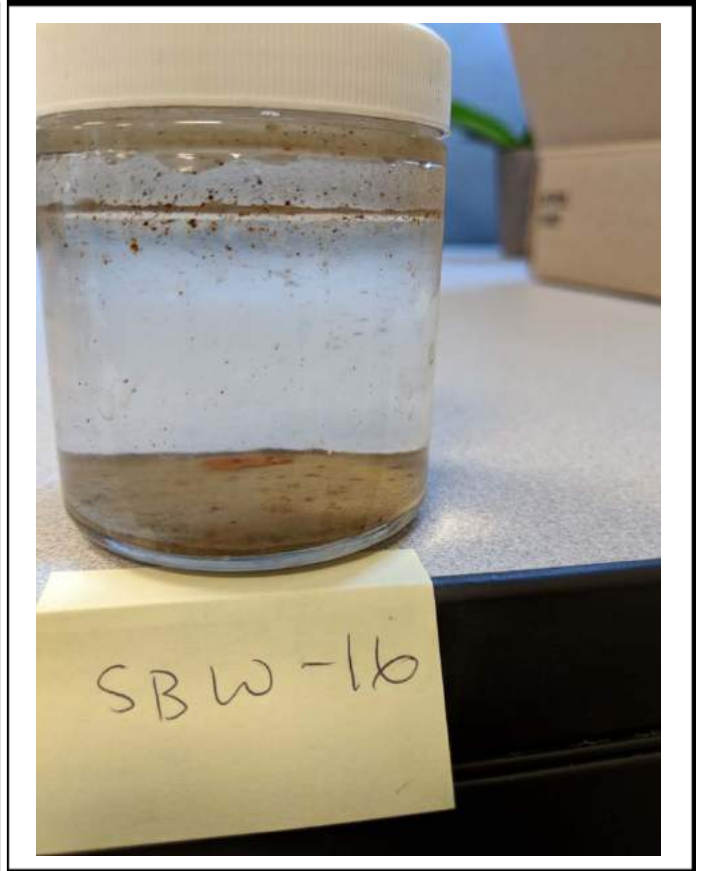
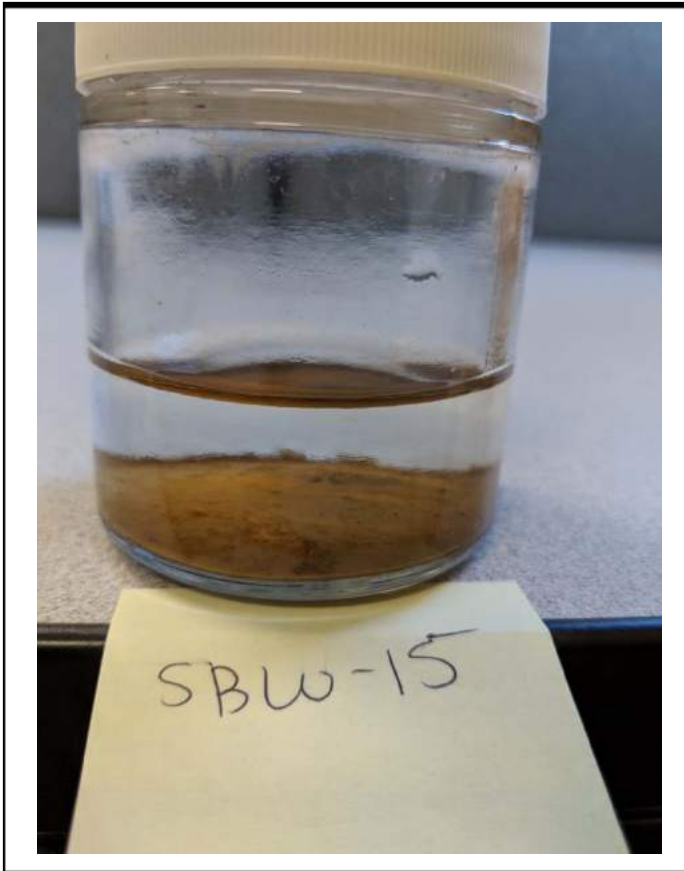
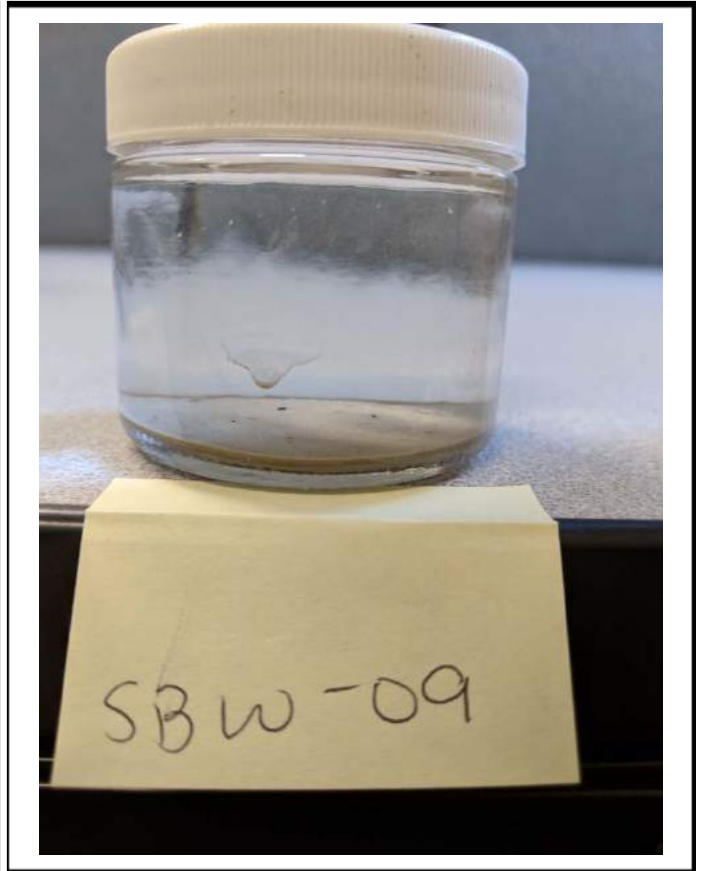
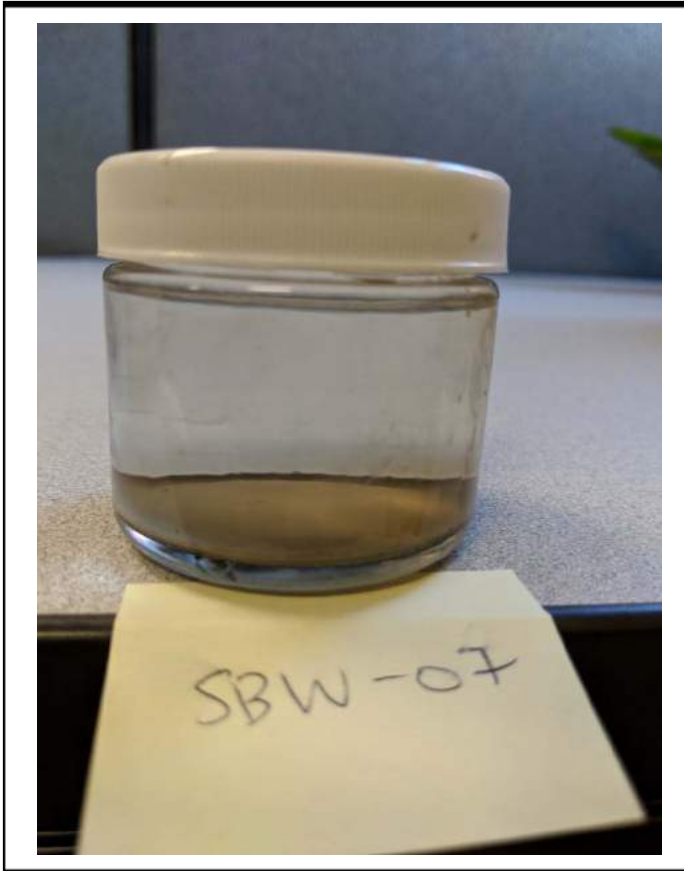
Post-Injection Samples



Post-Injection Samples



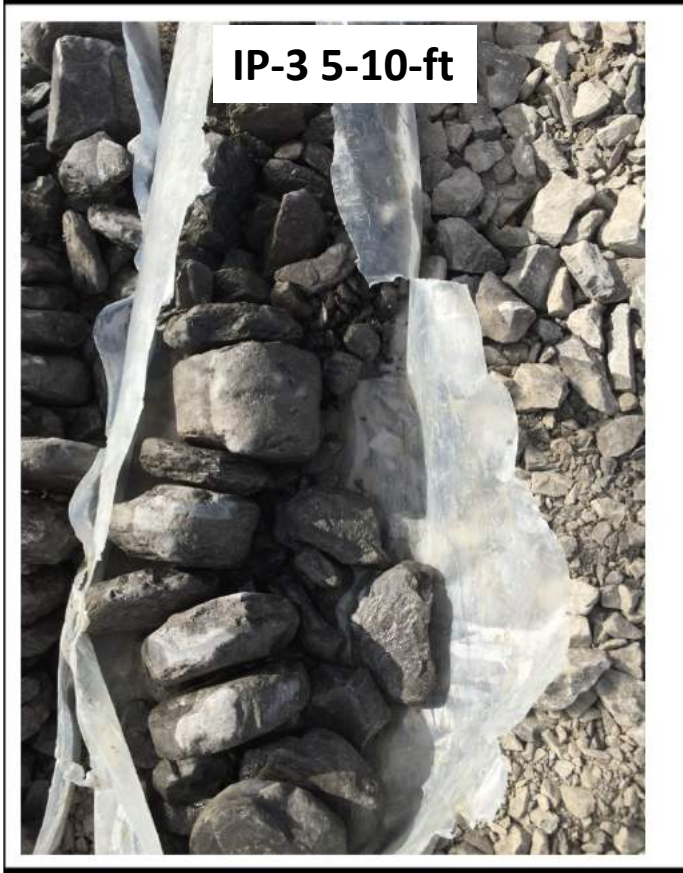
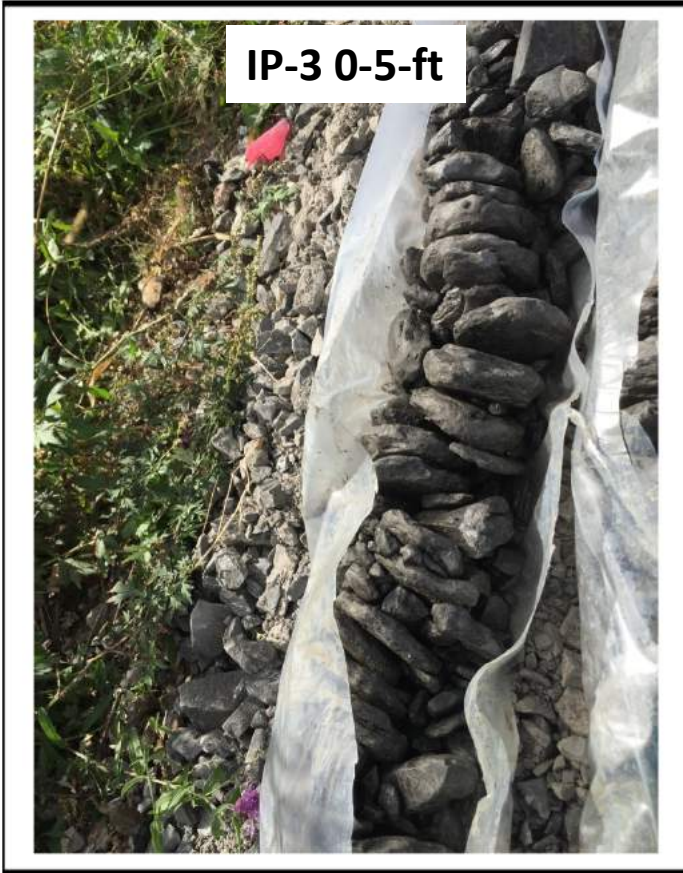
Post-Injection Samples



Sonic Rig Rock Cores- Injection Points



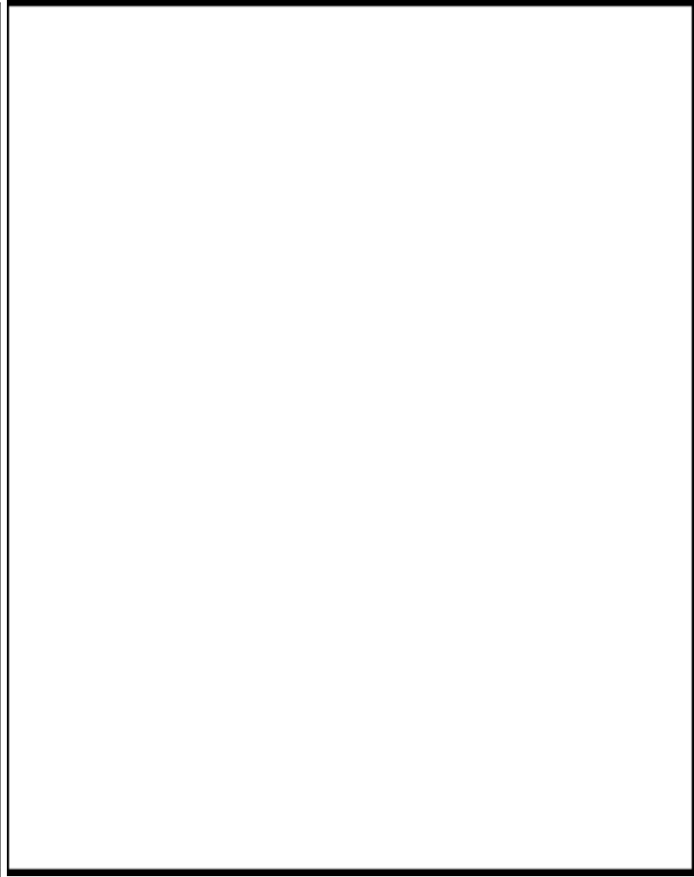
Sonic Rig Rock Cores- Injection Points



Sonic Rig Rock Cores- Injection Points



Sonic Rig Rock Cores- Injection Points





APPENDIX 3

Laboratory Reports

ANALYTICAL REPORT

Job Number: 480-149618-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Rebecca M Jones
Project Management Assistant I
3/8/2019 12:17 PM

Designee for
Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
03/08/2019

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

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**Job Narrative
480-149618-1**

Receipt

The samples were received on 3/1/2019 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: ML-2I (480-149618-3), ML-7D (480-149618-5) and GMX-MW3 (480-149618-6). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-461126 recovered outside control limits for the following analyte(s): Methyl acetate, which has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The following samples are impacted: ML-2I (480-149618-3), ML-7D (480-149618-5), GMX-MW3 (480-149618-6) and DUPE (480-149618-9).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-461282 recovered outside control limits for the following analyte: Dibromochloromethane. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: ML-2D (480-149618-1), ML-2S (480-149618-2), ML-7I (480-149618-4), GMX-MW3 (480-149618-6), LAB-SBW-16 (480-149618-7), LAB-SBW-15 (480-149618-8), DUPE (480-149618-9) and TRIP BLANK (480-149618-10).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-461282 recovered above the upper control limit for Dibromochloromethane. The samples associated with this CCV were non-detect above the reporting limit (RL) for the affected analyte; therefore, the data have been reported. The following samples are impacted: ML-2D (480-149618-1), ML-2S (480-149618-2), ML-7I (480-149618-4), GMX-MW3 (480-149618-6), LAB-SBW-16 (480-149618-7), LAB-SBW-15 (480-149618-8), DUPE (480-149618-9) and TRIP BLANK (480-149618-10).

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: ML-2D (480-149618-1), ML-2S (480-149618-2), ML-7I (480-149618-4), GMX-MW3 (480-149618-6), LAB-SBW-16 (480-149618-7), LAB-SBW-15 (480-149618-8) and DUPE (480-149618-9). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-2D (480-149618-1), ML-7I (480-149618-4), GMX-MW3 (480-149618-6) and DUPE (480-149618-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: ML-2S (480-149618-2), LAB-SBW-16 (480-149618-7) and LAB-SBW-15 (480-149618-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatile sample was analyzed with significant headspace in the sample container(s): GMX-MW3 (480-149618-6). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: ML-7D (480-149618-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: ML-2I (480-149618-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) associated with analytical batch 480-461282. The following samples were affected: ML-2D (480-149618-1), ML-2S (480-149618-2), ML-7I (480-149618-4), GMX-MW3 (480-149618-6), LAB-SBW-16 (480-149618-7), LAB-SBW-15 (480-149618-8), DUPE (480-149618-9) and TRIP BLANK (480-149618-10).

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: LAB-SBW-15 (480-149618-8[MS]) and LAB-SBW-15 (480-149618-8[MSD]). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: LAB-SBW-15 (480-149618-8[MS]) and LAB-SBW-15 (480-149618-8[MSD]). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatile samples were analyzed with significant headspace in the sample container(s): LAB-SBW-15 (480-149618-8[MS]) and LAB-SBW-15 (480-149618-8[MSD]). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-149618-1	ML-2D	Water	02/27/19 13:35	03/01/19 09:15
480-149618-2	ML-2S	Water	02/27/19 12:50	03/01/19 09:15
480-149618-3	ML-2I	Water	02/27/19 12:00	03/01/19 09:15
480-149618-4	ML-7I	Water	02/28/19 12:15	03/01/19 09:15
480-149618-5	ML-7D	Water	02/26/19 16:55	03/01/19 09:15
480-149618-6	GMX-MW3	Water	02/27/19 11:05	03/01/19 09:15
480-149618-7	LAB-SBW-16	Water	02/26/19 15:25	03/01/19 09:15
480-149618-8	LAB-SBW-15	Water	02/26/19 11:05	03/01/19 09:15
480-149618-9	DUPE	Water	02/26/19 12:15	03/01/19 09:15
480-149618-10	TRIP BLANK	Water	02/26/19 00:00	03/01/19 09:15

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-2D

Lab Sample ID: 480-149618-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.8		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	J	2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	55		2.0	0.76	ug/L	2		8260C	Total/NA
Acetone	8.7	J	20	6.0	ug/L	2		8260C	Total/NA
Benzene	5.5		2.0	0.82	ug/L	2		8260C	Total/NA
Chloroethane	39		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	2.6		2.0	1.6	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	2.1		2.0	0.32	ug/L	2		8260C	Total/NA
Methylene Chloride	2.0		2.0	0.88	ug/L	2		8260C	Total/NA
Toluene	2.0		2.0	1.0	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	2.1		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	1.0	J	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	3.3		2.0	1.8	ug/L	2		8260C	Total/NA
Xylenes, Total	3.0	J	4.0	1.3	ug/L	2		8260C	Total/NA

Client Sample ID: ML-2S

Lab Sample ID: 480-149618-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone (MIBK)	34		20	8.4	ug/L	4		8260C	Total/NA
Acetone	12	J	40	12	ug/L	4		8260C	Total/NA
Benzene	20		4.0	1.6	ug/L	4		8260C	Total/NA
Chloroethane	1.8	J	4.0	1.3	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	46		4.0	3.2	ug/L	4		8260C	Total/NA
Ethylbenzene	6.9		4.0	3.0	ug/L	4		8260C	Total/NA
Isopropylbenzene	34		4.0	3.2	ug/L	4		8260C	Total/NA
Methyl tert-butyl ether	45		4.0	0.64	ug/L	4		8260C	Total/NA
Methylcyclohexane	0.70	J	4.0	0.64	ug/L	4		8260C	Total/NA
Methylene Chloride	4.3		4.0	1.8	ug/L	4		8260C	Total/NA
Toluene	2.6	J	4.0	2.0	ug/L	4		8260C	Total/NA
Vinyl chloride	36		4.0	3.6	ug/L	4		8260C	Total/NA
Xylenes, Total	77		8.0	2.6	ug/L	4		8260C	Total/NA

Client Sample ID: ML-2I

Lab Sample ID: 480-149618-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.4		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	12	J	50	6.6	ug/L	5		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	83		25	11	ug/L	5		8260C	Total/NA
Benzene	22		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	3.4	J	5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	53		5.0	4.1	ug/L	5		8260C	Total/NA
Cyclohexane	2.0	J	5.0	0.90	ug/L	5		8260C	Total/NA
Ethylbenzene	11		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	28		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	41		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	2.4	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylene Chloride	6.2		5.0	2.2	ug/L	5		8260C	Total/NA
Toluene	12		5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride	45		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	73		10	3.3	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-7I

Lab Sample ID: 480-149618-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	10		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	84		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	220		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene	1.8	J	5.0	1.5	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	11	J *	50	6.6	ug/L	5		8260C	Total/NA
Benzene	20		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	78		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	190		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	1.4	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylene Chloride	4.9	J	5.0	2.2	ug/L	5		8260C	Total/NA
Tetrachloroethene	2.9	J	5.0	1.8	ug/L	5		8260C	Total/NA
Toluene	85		5.0	2.6	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	7.9		5.0	4.5	ug/L	5		8260C	Total/NA
Trichloroethene	9.9		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	170		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	7.8	J	10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: ML-7D

Lab Sample ID: 480-149618-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	15		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	46		5.0	1.9	ug/L	5		8260C	Total/NA
Benzene	9.4		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	200		5.0	1.6	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	1.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.1	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylene Chloride	5.8		5.0	2.2	ug/L	5		8260C	Total/NA

Client Sample ID: GMX-MW3

Lab Sample ID: 480-149618-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.82	J	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	3.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	10		1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	80		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	230	E	1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	1.1		1.0	0.18	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	58		1.0	0.16	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.18	J	1.0	0.16	ug/L	1		8260C	Total/NA
Methylene Chloride	0.55	J	1.0	0.44	ug/L	1		8260C	Total/NA
Toluene	1.5		1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.90	ug/L	1		8260C	Total/NA
Vinyl chloride	180	E	1.0	0.90	ug/L	1		8260C	Total/NA
Xylenes, Total	0.71	J	2.0	0.66	ug/L	1		8260C	Total/NA
Benzene - DL	12		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane - DL	76		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	220		5.0	4.1	ug/L	5		8260C	Total/NA
Cyclohexane - DL	1.3	J	5.0	0.90	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether - DL	54		5.0	0.80	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: GMX-MW3 (Continued)

Lab Sample ID: 480-149618-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane - DL	1.6	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylene Chloride - DL	4.5	J	5.0	2.2	ug/L	5		8260C	Total/NA
Toluene - DL	3.1	J	5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride - DL	150		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: LAB-SBW-16

Lab Sample ID: 480-149618-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.7		2.0	0.76	ug/L	2		8260C	Total/NA
2-Butanone (MEK)	7.6	J *	20	2.6	ug/L	2		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	41		10	4.2	ug/L	2		8260C	Total/NA
Acetone	16	J	20	6.0	ug/L	2		8260C	Total/NA
Benzene	4.7		2.0	0.82	ug/L	2		8260C	Total/NA
Chloroethane	0.89	J	2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	6.1		2.0	1.6	ug/L	2		8260C	Total/NA
Ethylbenzene	2.1		2.0	1.5	ug/L	2		8260C	Total/NA
Isopropylbenzene	5.7		2.0	1.6	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	26		2.0	0.32	ug/L	2		8260C	Total/NA
Methylene Chloride	2.0		2.0	0.88	ug/L	2		8260C	Total/NA
Toluene	1.8	J	2.0	1.0	ug/L	2		8260C	Total/NA
Vinyl chloride	2.8		2.0	1.8	ug/L	2		8260C	Total/NA
Xylenes, Total	16		4.0	1.3	ug/L	2		8260C	Total/NA

Client Sample ID: LAB-SBW-15

Lab Sample ID: 480-149618-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.7	J	4.0	1.5	ug/L	4		8260C	Total/NA
Benzene	4.3		4.0	1.6	ug/L	4		8260C	Total/NA
Chloroethane	69		4.0	1.3	ug/L	4		8260C	Total/NA
Methyl tert-butyl ether	1.6	J	4.0	0.64	ug/L	4		8260C	Total/NA
Methylcyclohexane	2.6	J	4.0	0.64	ug/L	4		8260C	Total/NA
Methylene Chloride	5.1		4.0	1.8	ug/L	4		8260C	Total/NA
Toluene	2.3	J	4.0	2.0	ug/L	4		8260C	Total/NA
Xylenes, Total	5.6	J	8.0	2.6	ug/L	4		8260C	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 480-149618-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	10		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	87		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	220	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.2		1.0	0.29	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	8.3	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	5.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	20		1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	74		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	190	E	1.0	0.81	ug/L	1		8260C	Total/NA
Ethylbenzene	2.2		1.0	0.74	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.3		1.0	0.16	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.48	J	1.0	0.16	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: DUPE (Continued)

Lab Sample ID: 480-149618-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.62	J	1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.9		1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	85		1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	8.0		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	9.9		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	180	E	1.0	0.90	ug/L	1		8260C	Total/NA
Xylenes, Total	10		2.0	0.66	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	9.9		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	57		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane - DL	220		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene - DL	2.0	J	5.0	1.5	ug/L	5		8260C	Total/NA
2-Butanone (MEK) - DL	8.8	J *	50	6.6	ug/L	5		8260C	Total/NA
Benzene - DL	20		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane - DL	72		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	190		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether - DL	1.4	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylene Chloride - DL	4.6	J	5.0	2.2	ug/L	5		8260C	Total/NA
Tetrachloroethene - DL	3.3	J	5.0	1.8	ug/L	5		8260C	Total/NA
Toluene - DL	84		5.0	2.6	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene - DL	7.8		5.0	4.5	ug/L	5		8260C	Total/NA
Trichloroethene - DL	9.6		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride - DL	170		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total - DL	7.0	J	10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-149618-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-2D
Date Collected: 02/27/19 13:35
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	3.8		2.0	1.6	ug/L			03/02/19 03:27	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/02/19 03:27	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/02/19 03:27	2
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	J	2.0	0.62	ug/L			03/02/19 03:27	2
1,1-Dichloroethane	55		2.0	0.76	ug/L			03/02/19 03:27	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/02/19 03:27	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			03/02/19 03:27	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			03/02/19 03:27	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			03/02/19 03:27	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/02/19 03:27	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/02/19 03:27	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			03/02/19 03:27	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			03/02/19 03:27	2
2-Butanone (MEK)	ND	*	20	2.6	ug/L			03/02/19 03:27	2
2-Hexanone	ND		10	2.5	ug/L			03/02/19 03:27	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			03/02/19 03:27	2
Acetone	8.7	J	20	6.0	ug/L			03/02/19 03:27	2
Benzene	5.5		2.0	0.82	ug/L			03/02/19 03:27	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/02/19 03:27	2
Bromoform	ND		2.0	0.52	ug/L			03/02/19 03:27	2
Bromomethane	ND		2.0	1.4	ug/L			03/02/19 03:27	2
Carbon disulfide	ND		2.0	0.38	ug/L			03/02/19 03:27	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/02/19 03:27	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/02/19 03:27	2
Dibromochloromethane	ND	*	2.0	0.64	ug/L			03/02/19 03:27	2
Chloroethane	39		2.0	0.64	ug/L			03/02/19 03:27	2
Chloroform	ND		2.0	0.68	ug/L			03/02/19 03:27	2
Chloromethane	ND		2.0	0.70	ug/L			03/02/19 03:27	2
cis-1,2-Dichloroethene	2.6		2.0	1.6	ug/L			03/02/19 03:27	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/02/19 03:27	2
Cyclohexane	ND		2.0	0.36	ug/L			03/02/19 03:27	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			03/02/19 03:27	2
Ethylbenzene	ND		2.0	1.5	ug/L			03/02/19 03:27	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			03/02/19 03:27	2
Isopropylbenzene	ND		2.0	1.6	ug/L			03/02/19 03:27	2
Methyl acetate	ND		5.0	2.6	ug/L			03/02/19 03:27	2
Methyl tert-butyl ether	2.1		2.0	0.32	ug/L			03/02/19 03:27	2
Methylcyclohexane	ND		2.0	0.32	ug/L			03/02/19 03:27	2
Methylene Chloride	2.0		2.0	0.88	ug/L			03/02/19 03:27	2
Styrene	ND		2.0	1.5	ug/L			03/02/19 03:27	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/02/19 03:27	2
Toluene	2.0		2.0	1.0	ug/L			03/02/19 03:27	2
trans-1,2-Dichloroethene	2.1		2.0	1.8	ug/L			03/02/19 03:27	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/02/19 03:27	2
Trichloroethene	1.0	J	2.0	0.92	ug/L			03/02/19 03:27	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			03/02/19 03:27	2
Vinyl chloride	3.3		2.0	1.8	ug/L			03/02/19 03:27	2
Xylenes, Total	3.0	J	4.0	1.3	ug/L			03/02/19 03:27	2

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-2D

Lab Sample ID: 480-149618-1

Date Collected: 02/27/19 13:35

Matrix: Water

Date Received: 03/01/19 09:15

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethane, 1,2-dichloro-1,1,2-trifluoro-	5.9	T J N	ug/L		2.39	354-23-4		03/02/19 03:27	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		03/02/19 03:27	2
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/02/19 03:27	2
4-Bromofluorobenzene (Surr)	108		73 - 120		03/02/19 03:27	2
Dibromofluoromethane (Surr)	105		75 - 123		03/02/19 03:27	2

Client Sample ID: ML-2S

Lab Sample ID: 480-149618-2

Date Collected: 02/27/19 12:50

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/02/19 03:54	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/02/19 03:54	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/02/19 03:54	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			03/02/19 03:54	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			03/02/19 03:54	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/02/19 03:54	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/02/19 03:54	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/02/19 03:54	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/02/19 03:54	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/02/19 03:54	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/02/19 03:54	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/02/19 03:54	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/02/19 03:54	4
2-Butanone (MEK)	ND	*	40	5.3	ug/L			03/02/19 03:54	4
2-Hexanone	ND		20	5.0	ug/L			03/02/19 03:54	4
4-Methyl-2-pentanone (MIBK)	34		20	8.4	ug/L			03/02/19 03:54	4
Acetone	12	J	40	12	ug/L			03/02/19 03:54	4
Benzene	20		4.0	1.6	ug/L			03/02/19 03:54	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/02/19 03:54	4
Bromoform	ND		4.0	1.0	ug/L			03/02/19 03:54	4
Bromomethane	ND		4.0	2.8	ug/L			03/02/19 03:54	4
Carbon disulfide	ND		4.0	0.76	ug/L			03/02/19 03:54	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/02/19 03:54	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/02/19 03:54	4
Dibromochloromethane	ND	*	4.0	1.3	ug/L			03/02/19 03:54	4
Chloroethane	1.8	J	4.0	1.3	ug/L			03/02/19 03:54	4
Chloroform	ND		4.0	1.4	ug/L			03/02/19 03:54	4
Chloromethane	ND		4.0	1.4	ug/L			03/02/19 03:54	4
cis-1,2-Dichloroethene	46		4.0	3.2	ug/L			03/02/19 03:54	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/02/19 03:54	4
Cyclohexane	ND		4.0	0.72	ug/L			03/02/19 03:54	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/02/19 03:54	4
Ethylbenzene	6.9		4.0	3.0	ug/L			03/02/19 03:54	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/02/19 03:54	4
Isopropylbenzene	34		4.0	3.2	ug/L			03/02/19 03:54	4
Methyl acetate	ND		10	5.2	ug/L			03/02/19 03:54	4

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-2S

Lab Sample ID: 480-149618-2

Date Collected: 02/27/19 12:50

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	45		4.0	0.64	ug/L			03/02/19 03:54	4
Methylcyclohexane	0.70	J	4.0	0.64	ug/L			03/02/19 03:54	4
Methylene Chloride	4.3		4.0	1.8	ug/L			03/02/19 03:54	4
Styrene	ND		4.0	2.9	ug/L			03/02/19 03:54	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/02/19 03:54	4
Toluene	2.6	J	4.0	2.0	ug/L			03/02/19 03:54	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/02/19 03:54	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/02/19 03:54	4
Trichloroethene	ND		4.0	1.8	ug/L			03/02/19 03:54	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/02/19 03:54	4
Vinyl chloride	36		4.0	3.6	ug/L			03/02/19 03:54	4
Xylenes, Total	77		8.0	2.6	ug/L			03/02/19 03:54	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	11	T J	ug/L		7.79			03/02/19 03:54	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		03/02/19 03:54	4
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		03/02/19 03:54	4
4-Bromofluorobenzene (Surr)	109		73 - 120		03/02/19 03:54	4
Dibromofluoromethane (Surr)	104		75 - 123		03/02/19 03:54	4

Client Sample ID: ML-2I

Lab Sample ID: 480-149618-3

Date Collected: 02/27/19 12:00

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/01/19 16:39	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/01/19 16:39	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/01/19 16:39	5
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/01/19 16:39	5
1,1-Dichloroethane	8.4	J	5.0	1.9	ug/L			03/01/19 16:39	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/01/19 16:39	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/01/19 16:39	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/01/19 16:39	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/01/19 16:39	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/01/19 16:39	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/01/19 16:39	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/01/19 16:39	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/01/19 16:39	5
2-Butanone (MEK)	12	J	50	6.6	ug/L			03/01/19 16:39	5
2-Hexanone	ND		25	6.2	ug/L			03/01/19 16:39	5
4-Methyl-2-pentanone (MIBK)	83		25	11	ug/L			03/01/19 16:39	5
Acetone	ND		50	15	ug/L			03/01/19 16:39	5
Benzene	22		5.0	2.1	ug/L			03/01/19 16:39	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/01/19 16:39	5
Bromoform	ND		5.0	1.3	ug/L			03/01/19 16:39	5
Bromomethane	ND		5.0	3.5	ug/L			03/01/19 16:39	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/01/19 16:39	5

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-21
Date Collected: 02/27/19 12:00
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/01/19 16:39	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/01/19 16:39	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/01/19 16:39	5
Chloroethane	3.4	J	5.0	1.6	ug/L			03/01/19 16:39	5
Chloroform	ND		5.0	1.7	ug/L			03/01/19 16:39	5
Chloromethane	ND		5.0	1.8	ug/L			03/01/19 16:39	5
cis-1,2-Dichloroethene	53		5.0	4.1	ug/L			03/01/19 16:39	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/01/19 16:39	5
Cyclohexane	2.0	J	5.0	0.90	ug/L			03/01/19 16:39	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/01/19 16:39	5
Ethylbenzene	11		5.0	3.7	ug/L			03/01/19 16:39	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/01/19 16:39	5
Isopropylbenzene	28		5.0	4.0	ug/L			03/01/19 16:39	5
Methyl acetate	ND *		13	6.5	ug/L			03/01/19 16:39	5
Methyl tert-butyl ether	41		5.0	0.80	ug/L			03/01/19 16:39	5
Methylcyclohexane	2.4	J	5.0	0.80	ug/L			03/01/19 16:39	5
Methylene Chloride	6.2		5.0	2.2	ug/L			03/01/19 16:39	5
Styrene	ND		5.0	3.7	ug/L			03/01/19 16:39	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/01/19 16:39	5
Toluene	12		5.0	2.6	ug/L			03/01/19 16:39	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/01/19 16:39	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/01/19 16:39	5
Trichloroethene	ND		5.0	2.3	ug/L			03/01/19 16:39	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/01/19 16:39	5
Vinyl chloride	45		5.0	4.5	ug/L			03/01/19 16:39	5
Xylenes, Total	73		10	3.3	ug/L			03/01/19 16:39	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethene, ethyloxy-	14	T J N	ug/L		2.33	1000221-95-9		03/01/19 16:39	5
Unknown	13	T J	ug/L		7.79			03/01/19 16:39	5
Benzene, 1,2,3-trimethyl-	41	T J N	ug/L		8.81	526-73-8		03/01/19 16:39	5
Unknown	14	T J	ug/L		9.34			03/01/19 16:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		03/01/19 16:39	5
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		03/01/19 16:39	5
4-Bromofluorobenzene (Surr)	110		73 - 120		03/01/19 16:39	5
Dibromofluoromethane (Surr)	108		75 - 123		03/01/19 16:39	5

Client Sample ID: ML-71
Date Collected: 02/28/19 12:15
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10		5.0	4.1	ug/L			03/02/19 04:21	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/02/19 04:21	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/02/19 04:21	5
1,1,2-Trichloro-1,2,2-trifluoroethane	84		5.0	1.6	ug/L			03/02/19 04:21	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-71
Date Collected: 02/28/19 12:15
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	220		5.0	1.9	ug/L			03/02/19 04:21	5
1,1-Dichloroethene	1.8	J	5.0	1.5	ug/L			03/02/19 04:21	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/02/19 04:21	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/02/19 04:21	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/02/19 04:21	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/02/19 04:21	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/02/19 04:21	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/02/19 04:21	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/02/19 04:21	5
2-Butanone (MEK)	11	J*	50	6.6	ug/L			03/02/19 04:21	5
2-Hexanone	ND		25	6.2	ug/L			03/02/19 04:21	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/02/19 04:21	5
Acetone	ND		50	15	ug/L			03/02/19 04:21	5
Benzene	20		5.0	2.1	ug/L			03/02/19 04:21	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/02/19 04:21	5
Bromoform	ND		5.0	1.3	ug/L			03/02/19 04:21	5
Bromomethane	ND		5.0	3.5	ug/L			03/02/19 04:21	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/02/19 04:21	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/02/19 04:21	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/02/19 04:21	5
Dibromochloromethane	ND	*	5.0	1.6	ug/L			03/02/19 04:21	5
Chloroethane	78		5.0	1.6	ug/L			03/02/19 04:21	5
Chloroform	ND		5.0	1.7	ug/L			03/02/19 04:21	5
Chloromethane	ND		5.0	1.8	ug/L			03/02/19 04:21	5
cis-1,2-Dichloroethene	190		5.0	4.1	ug/L			03/02/19 04:21	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/02/19 04:21	5
Cyclohexane	ND		5.0	0.90	ug/L			03/02/19 04:21	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/02/19 04:21	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/02/19 04:21	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/02/19 04:21	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/02/19 04:21	5
Methyl acetate	ND		13	6.5	ug/L			03/02/19 04:21	5
Methyl tert-butyl ether	1.4	J	5.0	0.80	ug/L			03/02/19 04:21	5
Methylcyclohexane	ND		5.0	0.80	ug/L			03/02/19 04:21	5
Methylene Chloride	4.9	J	5.0	2.2	ug/L			03/02/19 04:21	5
Styrene	ND		5.0	3.7	ug/L			03/02/19 04:21	5
Tetrachloroethene	2.9	J	5.0	1.8	ug/L			03/02/19 04:21	5
Toluene	85		5.0	2.6	ug/L			03/02/19 04:21	5
trans-1,2-Dichloroethene	7.9		5.0	4.5	ug/L			03/02/19 04:21	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/02/19 04:21	5
Trichloroethene	9.9		5.0	2.3	ug/L			03/02/19 04:21	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/02/19 04:21	5
Vinyl chloride	170		5.0	4.5	ug/L			03/02/19 04:21	5
Xylenes, Total	7.8	J	10	3.3	ug/L			03/02/19 04:21	5

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ethane, 1,2-dichloro-1,1,2-trifluoro-</i>	<i>140</i>	<i>T J N</i>	<i>ug/L</i>		<i>2.40</i>	<i>354-23-4</i>		<i>03/02/19 04:21</i>	<i>5</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>101</i>		<i>80 - 120</i>					<i>03/02/19 04:21</i>	<i>5</i>

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-7I
Date Collected: 02/28/19 12:15
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/02/19 04:21	5
4-Bromofluorobenzene (Surr)	111		73 - 120		03/02/19 04:21	5
Dibromofluoromethane (Surr)	103		75 - 123		03/02/19 04:21	5

Client Sample ID: ML-7D
Date Collected: 02/26/19 16:55
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	15		5.0	4.1	ug/L			03/01/19 17:33	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/01/19 17:33	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/01/19 17:33	5
1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6	ug/L			03/01/19 17:33	5
1,1-Dichloroethane	46		5.0	1.9	ug/L			03/01/19 17:33	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/01/19 17:33	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/01/19 17:33	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/01/19 17:33	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/01/19 17:33	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/01/19 17:33	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/01/19 17:33	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/01/19 17:33	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/01/19 17:33	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/01/19 17:33	5
2-Hexanone	ND		25	6.2	ug/L			03/01/19 17:33	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/01/19 17:33	5
Acetone	ND		50	15	ug/L			03/01/19 17:33	5
Benzene	9.4		5.0	2.1	ug/L			03/01/19 17:33	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/01/19 17:33	5
Bromoform	ND		5.0	1.3	ug/L			03/01/19 17:33	5
Bromomethane	ND		5.0	3.5	ug/L			03/01/19 17:33	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/01/19 17:33	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/01/19 17:33	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/01/19 17:33	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/01/19 17:33	5
Chloroethane	200		5.0	1.6	ug/L			03/01/19 17:33	5
Chloroform	ND		5.0	1.7	ug/L			03/01/19 17:33	5
Chloromethane	ND		5.0	1.8	ug/L			03/01/19 17:33	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			03/01/19 17:33	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/01/19 17:33	5
Cyclohexane	ND		5.0	0.90	ug/L			03/01/19 17:33	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/01/19 17:33	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/01/19 17:33	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/01/19 17:33	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/01/19 17:33	5
Methyl acetate	ND *		13	6.5	ug/L			03/01/19 17:33	5
Methyl tert-butyl ether	1.7	J	5.0	0.80	ug/L			03/01/19 17:33	5
Methylcyclohexane	1.1	J	5.0	0.80	ug/L			03/01/19 17:33	5

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-7D

Lab Sample ID: 480-149618-5

Date Collected: 02/26/19 16:55

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.8		5.0	2.2	ug/L			03/01/19 17:33	5
Styrene	ND		5.0	3.7	ug/L			03/01/19 17:33	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/01/19 17:33	5
Toluene	ND		5.0	2.6	ug/L			03/01/19 17:33	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/01/19 17:33	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/01/19 17:33	5
Trichloroethene	ND		5.0	2.3	ug/L			03/01/19 17:33	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/01/19 17:33	5
Vinyl chloride	ND		5.0	4.5	ug/L			03/01/19 17:33	5
Xylenes, Total	ND		10	3.3	ug/L			03/01/19 17:33	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Ethane, 1,2-dichloro-1,1,2-trifluoro-</i>	13	T J N	ug/L		2.40	354-23-4		03/01/19 17:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		80 - 120		03/01/19 17:33	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		77 - 120		03/01/19 17:33	5
<i>4-Bromofluorobenzene (Surr)</i>	110		73 - 120		03/01/19 17:33	5
<i>Dibromofluoromethane (Surr)</i>	103		75 - 123		03/01/19 17:33	5

Client Sample ID: GMX-MW3

Lab Sample ID: 480-149618-6

Date Collected: 02/27/19 11:05

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/01/19 18:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/01/19 18:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/01/19 18:52	1
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/01/19 18:52	1
1,1-Dichloroethane	0.82	J	1.0	0.38	ug/L			03/01/19 18:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/01/19 18:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/01/19 18:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/01/19 18:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/01/19 18:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/01/19 18:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/01/19 18:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/01/19 18:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/01/19 18:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/01/19 18:52	1
2-Hexanone	ND		5.0	1.2	ug/L			03/01/19 18:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/01/19 18:52	1
Acetone	3.0	J	10	3.0	ug/L			03/01/19 18:52	1
Benzene	10		1.0	0.41	ug/L			03/01/19 18:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/01/19 18:52	1
Bromoform	ND		1.0	0.26	ug/L			03/01/19 18:52	1
Bromomethane	ND		1.0	0.69	ug/L			03/01/19 18:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/01/19 18:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/01/19 18:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/01/19 18:52	1

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: GMX-MW3

Lab Sample ID: 480-149618-6

Date Collected: 02/27/19 11:05

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			03/01/19 18:52	1
Chloroethane	80		1.0	0.32	ug/L			03/01/19 18:52	1
Chloroform	ND		1.0	0.34	ug/L			03/01/19 18:52	1
Chloromethane	ND		1.0	0.35	ug/L			03/01/19 18:52	1
cis-1,2-Dichloroethene	230 E		1.0	0.81	ug/L			03/01/19 18:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/01/19 18:52	1
Cyclohexane	1.1		1.0	0.18	ug/L			03/01/19 18:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/01/19 18:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/19 18:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/01/19 18:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/01/19 18:52	1
Methyl acetate	ND *		2.5	1.3	ug/L			03/01/19 18:52	1
Methyl tert-butyl ether	58		1.0	0.16	ug/L			03/01/19 18:52	1
Methylcyclohexane	0.18 J		1.0	0.16	ug/L			03/01/19 18:52	1
Methylene Chloride	0.55 J		1.0	0.44	ug/L			03/01/19 18:52	1
Styrene	ND		1.0	0.73	ug/L			03/01/19 18:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/01/19 18:52	1
Toluene	1.5		1.0	0.51	ug/L			03/01/19 18:52	1
trans-1,2-Dichloroethene	1.3		1.0	0.90	ug/L			03/01/19 18:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/01/19 18:52	1
Trichloroethene	ND		1.0	0.46	ug/L			03/01/19 18:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/01/19 18:52	1
Vinyl chloride	180 E		1.0	0.90	ug/L			03/01/19 18:52	1
Xylenes, Total	0.71 J		2.0	0.66	ug/L			03/01/19 18:52	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethyl ether	13	T J N	ug/L		2.33	60-29-7		03/01/19 18:52	1
Unknown	2.9	T J	ug/L		4.79			03/01/19 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		03/01/19 18:52	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		03/01/19 18:52	1
4-Bromofluorobenzene (Surr)	106		73 - 120		03/01/19 18:52	1
Dibromofluoromethane (Surr)	108		75 - 123		03/01/19 18:52	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/02/19 04:48	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/02/19 04:48	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/02/19 04:48	5
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/02/19 04:48	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/02/19 04:48	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/02/19 04:48	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/02/19 04:48	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/02/19 04:48	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/02/19 04:48	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/02/19 04:48	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/02/19 04:48	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/02/19 04:48	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/02/19 04:48	5

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: GMX-MW3

Lab Sample ID: 480-149618-6

Date Collected: 02/27/19 11:05

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	*	50	6.6	ug/L			03/02/19 04:48	5
2-Hexanone	ND		25	6.2	ug/L			03/02/19 04:48	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/02/19 04:48	5
Acetone	ND		50	15	ug/L			03/02/19 04:48	5
Benzene	12		5.0	2.1	ug/L			03/02/19 04:48	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/02/19 04:48	5
Bromoform	ND		5.0	1.3	ug/L			03/02/19 04:48	5
Bromomethane	ND		5.0	3.5	ug/L			03/02/19 04:48	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/02/19 04:48	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/02/19 04:48	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/02/19 04:48	5
Dibromochloromethane	ND	*	5.0	1.6	ug/L			03/02/19 04:48	5
Chloroethane	76		5.0	1.6	ug/L			03/02/19 04:48	5
Chloroform	ND		5.0	1.7	ug/L			03/02/19 04:48	5
Chloromethane	ND		5.0	1.8	ug/L			03/02/19 04:48	5
cis-1,2-Dichloroethene	220		5.0	4.1	ug/L			03/02/19 04:48	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/02/19 04:48	5
Cyclohexane	1.3 J		5.0	0.90	ug/L			03/02/19 04:48	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/02/19 04:48	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/02/19 04:48	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/02/19 04:48	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/02/19 04:48	5
Methyl acetate	ND		13	6.5	ug/L			03/02/19 04:48	5
Methyl tert-butyl ether	54		5.0	0.80	ug/L			03/02/19 04:48	5
Methylcyclohexane	1.6 J		5.0	0.80	ug/L			03/02/19 04:48	5
Methylene Chloride	4.5 J		5.0	2.2	ug/L			03/02/19 04:48	5
Styrene	ND		5.0	3.7	ug/L			03/02/19 04:48	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/02/19 04:48	5
Toluene	3.1 J		5.0	2.6	ug/L			03/02/19 04:48	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/02/19 04:48	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/02/19 04:48	5
Trichloroethene	ND		5.0	2.3	ug/L			03/02/19 04:48	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/02/19 04:48	5
Vinyl chloride	150		5.0	4.5	ug/L			03/02/19 04:48	5
Xylenes, Total	ND		10	3.3	ug/L			03/02/19 04:48	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					03/02/19 04:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		03/02/19 04:48	5
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		03/02/19 04:48	5
4-Bromofluorobenzene (Surr)	110		73 - 120		03/02/19 04:48	5
Dibromofluoromethane (Surr)	103		75 - 123		03/02/19 04:48	5

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: LAB-SBW-16

Lab Sample ID: 480-149618-7

Date Collected: 02/26/19 15:25

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			03/02/19 05:15	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			03/02/19 05:15	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			03/02/19 05:15	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			03/02/19 05:15	2
1,1-Dichloroethane	2.7		2.0	0.76	ug/L			03/02/19 05:15	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			03/02/19 05:15	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			03/02/19 05:15	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			03/02/19 05:15	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			03/02/19 05:15	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			03/02/19 05:15	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			03/02/19 05:15	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			03/02/19 05:15	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			03/02/19 05:15	2
2-Butanone (MEK)	7.6	J *	20	2.6	ug/L			03/02/19 05:15	2
2-Hexanone	ND		10	2.5	ug/L			03/02/19 05:15	2
4-Methyl-2-pentanone (MIBK)	41		10	4.2	ug/L			03/02/19 05:15	2
Acetone	16	J	20	6.0	ug/L			03/02/19 05:15	2
Benzene	4.7		2.0	0.82	ug/L			03/02/19 05:15	2
Bromodichloromethane	ND		2.0	0.78	ug/L			03/02/19 05:15	2
Bromoform	ND		2.0	0.52	ug/L			03/02/19 05:15	2
Bromomethane	ND		2.0	1.4	ug/L			03/02/19 05:15	2
Carbon disulfide	ND		2.0	0.38	ug/L			03/02/19 05:15	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			03/02/19 05:15	2
Chlorobenzene	ND		2.0	1.5	ug/L			03/02/19 05:15	2
Dibromochloromethane	ND	*	2.0	0.64	ug/L			03/02/19 05:15	2
Chloroethane	0.89	J	2.0	0.64	ug/L			03/02/19 05:15	2
Chloroform	ND		2.0	0.68	ug/L			03/02/19 05:15	2
Chloromethane	ND		2.0	0.70	ug/L			03/02/19 05:15	2
cis-1,2-Dichloroethene	6.1		2.0	1.6	ug/L			03/02/19 05:15	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			03/02/19 05:15	2
Cyclohexane	ND		2.0	0.36	ug/L			03/02/19 05:15	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			03/02/19 05:15	2
Ethylbenzene	2.1		2.0	1.5	ug/L			03/02/19 05:15	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			03/02/19 05:15	2
Isopropylbenzene	5.7		2.0	1.6	ug/L			03/02/19 05:15	2
Methyl acetate	ND		5.0	2.6	ug/L			03/02/19 05:15	2
Methyl tert-butyl ether	26		2.0	0.32	ug/L			03/02/19 05:15	2
Methylcyclohexane	ND		2.0	0.32	ug/L			03/02/19 05:15	2
Methylene Chloride	2.0		2.0	0.88	ug/L			03/02/19 05:15	2
Styrene	ND		2.0	1.5	ug/L			03/02/19 05:15	2
Tetrachloroethene	ND		2.0	0.72	ug/L			03/02/19 05:15	2
Toluene	1.8	J	2.0	1.0	ug/L			03/02/19 05:15	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			03/02/19 05:15	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			03/02/19 05:15	2
Trichloroethene	ND		2.0	0.92	ug/L			03/02/19 05:15	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			03/02/19 05:15	2
Vinyl chloride	2.8		2.0	1.8	ug/L			03/02/19 05:15	2
Xylenes, Total	16		4.0	1.3	ug/L			03/02/19 05:15	2

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: LAB-SBW-16

Lab Sample ID: 480-149618-7

Date Collected: 02/26/19 15:25

Matrix: Water

Date Received: 03/01/19 09:15

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Unknown	8.4	T J	ug/L		7.79			03/02/19 05:15	2

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Toluene-d8 (Surr)	101		80 - 120		03/02/19 05:15	2
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		03/02/19 05:15	2
4-Bromofluorobenzene (Surr)	111		73 - 120		03/02/19 05:15	2
Dibromofluoromethane (Surr)	106		75 - 123		03/02/19 05:15	2

Client Sample ID: LAB-SBW-15

Lab Sample ID: 480-149618-8

Date Collected: 02/26/19 11:05

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/02/19 05:42	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/02/19 05:42	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/02/19 05:42	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			03/02/19 05:42	4
1,1-Dichloroethane	3.7	J	4.0	1.5	ug/L			03/02/19 05:42	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/02/19 05:42	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/02/19 05:42	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/02/19 05:42	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/02/19 05:42	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/02/19 05:42	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/02/19 05:42	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/02/19 05:42	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/02/19 05:42	4
2-Butanone (MEK)	ND	*	40	5.3	ug/L			03/02/19 05:42	4
2-Hexanone	ND		20	5.0	ug/L			03/02/19 05:42	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			03/02/19 05:42	4
Acetone	ND		40	12	ug/L			03/02/19 05:42	4
Benzene	4.3		4.0	1.6	ug/L			03/02/19 05:42	4
Bromodichloromethane	ND		4.0	1.6	ug/L			03/02/19 05:42	4
Bromoform	ND		4.0	1.0	ug/L			03/02/19 05:42	4
Bromomethane	ND		4.0	2.8	ug/L			03/02/19 05:42	4
Carbon disulfide	ND		4.0	0.76	ug/L			03/02/19 05:42	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/02/19 05:42	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/02/19 05:42	4
Dibromochloromethane	ND	F1 *	4.0	1.3	ug/L			03/02/19 05:42	4
Chloroethane	69		4.0	1.3	ug/L			03/02/19 05:42	4
Chloroform	ND		4.0	1.4	ug/L			03/02/19 05:42	4
Chloromethane	ND		4.0	1.4	ug/L			03/02/19 05:42	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			03/02/19 05:42	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			03/02/19 05:42	4
Cyclohexane	ND		4.0	0.72	ug/L			03/02/19 05:42	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/02/19 05:42	4
Ethylbenzene	ND		4.0	3.0	ug/L			03/02/19 05:42	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/02/19 05:42	4
Isopropylbenzene	ND		4.0	3.2	ug/L			03/02/19 05:42	4
Methyl acetate	ND		10	5.2	ug/L			03/02/19 05:42	4

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: LAB-SBW-15

Lab Sample ID: 480-149618-8

Date Collected: 02/26/19 11:05

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.6	J	4.0	0.64	ug/L			03/02/19 05:42	4
Methylcyclohexane	2.6	J	4.0	0.64	ug/L			03/02/19 05:42	4
Methylene Chloride	5.1		4.0	1.8	ug/L			03/02/19 05:42	4
Styrene	ND		4.0	2.9	ug/L			03/02/19 05:42	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/02/19 05:42	4
Toluene	2.3	J	4.0	2.0	ug/L			03/02/19 05:42	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			03/02/19 05:42	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			03/02/19 05:42	4
Trichloroethene	ND		4.0	1.8	ug/L			03/02/19 05:42	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			03/02/19 05:42	4
Vinyl chloride	ND		4.0	3.6	ug/L			03/02/19 05:42	4
Xylenes, Total	5.6	J	8.0	2.6	ug/L			03/02/19 05:42	4

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					03/02/19 05:42	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		03/02/19 05:42	4
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		03/02/19 05:42	4
4-Bromofluorobenzene (Surr)	109		73 - 120		03/02/19 05:42	4
Dibromofluoromethane (Surr)	104		75 - 123		03/02/19 05:42	4

Client Sample ID: DUPE

Lab Sample ID: 480-149618-9

Date Collected: 02/26/19 12:15

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	10		1.0	0.82	ug/L			03/01/19 19:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/01/19 19:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/01/19 19:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	87		1.0	0.31	ug/L			03/01/19 19:19	1
1,1-Dichloroethane	220	E	1.0	0.38	ug/L			03/01/19 19:19	1
1,1-Dichloroethene	2.2		1.0	0.29	ug/L			03/01/19 19:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/01/19 19:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/01/19 19:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/01/19 19:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/01/19 19:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/01/19 19:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/01/19 19:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/01/19 19:19	1
2-Butanone (MEK)	8.3	J	10	1.3	ug/L			03/01/19 19:19	1
2-Hexanone	ND		5.0	1.2	ug/L			03/01/19 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/01/19 19:19	1
Acetone	5.0	J	10	3.0	ug/L			03/01/19 19:19	1
Benzene	20		1.0	0.41	ug/L			03/01/19 19:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/01/19 19:19	1
Bromoform	ND		1.0	0.26	ug/L			03/01/19 19:19	1
Bromomethane	ND		1.0	0.69	ug/L			03/01/19 19:19	1

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: DUPE

Lab Sample ID: 480-149618-9

Date Collected: 02/26/19 12:15

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.19	ug/L			03/01/19 19:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/01/19 19:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/01/19 19:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/01/19 19:19	1
Chloroethane	74		1.0	0.32	ug/L			03/01/19 19:19	1
Chloroform	ND		1.0	0.34	ug/L			03/01/19 19:19	1
Chloromethane	ND		1.0	0.35	ug/L			03/01/19 19:19	1
cis-1,2-Dichloroethene	190	E	1.0	0.81	ug/L			03/01/19 19:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/01/19 19:19	1
Cyclohexane	ND		1.0	0.18	ug/L			03/01/19 19:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/01/19 19:19	1
Ethylbenzene	2.2		1.0	0.74	ug/L			03/01/19 19:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/01/19 19:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/01/19 19:19	1
Methyl acetate	ND	*	2.5	1.3	ug/L			03/01/19 19:19	1
Methyl tert-butyl ether	1.3		1.0	0.16	ug/L			03/01/19 19:19	1
Methylcyclohexane	0.48	J	1.0	0.16	ug/L			03/01/19 19:19	1
Methylene Chloride	0.62	J	1.0	0.44	ug/L			03/01/19 19:19	1
Styrene	ND		1.0	0.73	ug/L			03/01/19 19:19	1
Tetrachloroethene	2.9		1.0	0.36	ug/L			03/01/19 19:19	1
Toluene	85		1.0	0.51	ug/L			03/01/19 19:19	1
trans-1,2-Dichloroethene	8.0		1.0	0.90	ug/L			03/01/19 19:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/01/19 19:19	1
Trichloroethene	9.9		1.0	0.46	ug/L			03/01/19 19:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/01/19 19:19	1
Vinyl chloride	180	E	1.0	0.90	ug/L			03/01/19 19:19	1
Xylenes, Total	10		2.0	0.66	ug/L			03/01/19 19:19	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2.8	T J	ug/L		1.56			03/01/19 19:19	1
Cyclopropane, 1,2-dimethyl-, cis-Ethyl ether	2.8	T J N	ug/L		2.12	930-18-7		03/01/19 19:19	1
Ethane, 1,2-dichloro-1,1,2-trifluoro-	3.7	T J N	ug/L		2.33	60-29-7		03/01/19 19:19	1
	140	T J N	ug/L		2.39	354-23-4		03/01/19 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		03/01/19 19:19	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		03/01/19 19:19	1
4-Bromofluorobenzene (Surr)	105		73 - 120		03/01/19 19:19	1
Dibromofluoromethane (Surr)	102		75 - 123		03/01/19 19:19	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9.9		5.0	4.1	ug/L			03/02/19 06:08	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/02/19 06:08	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/02/19 06:08	5
1,1,2-Trichloro-1,2,2-trifluoroethane	57		5.0	1.6	ug/L			03/02/19 06:08	5
1,1-Dichloroethane	220		5.0	1.9	ug/L			03/02/19 06:08	5
1,1-Dichloroethene	2.0	J	5.0	1.5	ug/L			03/02/19 06:08	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/02/19 06:08	5

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: DUPE
Date Collected: 02/26/19 12:15
Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/02/19 06:08	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/02/19 06:08	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/02/19 06:08	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/02/19 06:08	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/02/19 06:08	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/02/19 06:08	5
2-Butanone (MEK)	8.8	J *	50	6.6	ug/L			03/02/19 06:08	5
2-Hexanone	ND		25	6.2	ug/L			03/02/19 06:08	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/02/19 06:08	5
Acetone	ND		50	15	ug/L			03/02/19 06:08	5
Benzene	20		5.0	2.1	ug/L			03/02/19 06:08	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/02/19 06:08	5
Bromoform	ND		5.0	1.3	ug/L			03/02/19 06:08	5
Bromomethane	ND		5.0	3.5	ug/L			03/02/19 06:08	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/02/19 06:08	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/02/19 06:08	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/02/19 06:08	5
Dibromochloromethane	ND	*	5.0	1.6	ug/L			03/02/19 06:08	5
Chloroethane	72		5.0	1.6	ug/L			03/02/19 06:08	5
Chloroform	ND		5.0	1.7	ug/L			03/02/19 06:08	5
Chloromethane	ND		5.0	1.8	ug/L			03/02/19 06:08	5
cis-1,2-Dichloroethene	190		5.0	4.1	ug/L			03/02/19 06:08	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			03/02/19 06:08	5
Cyclohexane	ND		5.0	0.90	ug/L			03/02/19 06:08	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/02/19 06:08	5
Ethylbenzene	ND		5.0	3.7	ug/L			03/02/19 06:08	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/02/19 06:08	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/02/19 06:08	5
Methyl acetate	ND		13	6.5	ug/L			03/02/19 06:08	5
Methyl tert-butyl ether	1.4	J	5.0	0.80	ug/L			03/02/19 06:08	5
Methylcyclohexane	ND		5.0	0.80	ug/L			03/02/19 06:08	5
Methylene Chloride	4.6	J	5.0	2.2	ug/L			03/02/19 06:08	5
Styrene	ND		5.0	3.7	ug/L			03/02/19 06:08	5
Tetrachloroethene	3.3	J	5.0	1.8	ug/L			03/02/19 06:08	5
Toluene	84		5.0	2.6	ug/L			03/02/19 06:08	5
trans-1,2-Dichloroethene	7.8		5.0	4.5	ug/L			03/02/19 06:08	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			03/02/19 06:08	5
Trichloroethene	9.6		5.0	2.3	ug/L			03/02/19 06:08	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			03/02/19 06:08	5
Vinyl chloride	170		5.0	4.5	ug/L			03/02/19 06:08	5
Xylenes, Total	7.0	J	10	3.3	ug/L			03/02/19 06:08	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethane, 1,2-dichloro-1,1,2-trifluoro-	140	T J N	ug/L		2.39	354-23-4		03/02/19 06:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		03/02/19 06:08	5
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		03/02/19 06:08	5
4-Bromofluorobenzene (Surr)	108		73 - 120		03/02/19 06:08	5
Dibromofluoromethane (Surr)	105		75 - 123		03/02/19 06:08	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-149618-10

Date Collected: 02/26/19 00:00

Matrix: Water

Date Received: 03/01/19 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/02/19 06:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/02/19 06:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/02/19 06:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/02/19 06:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/02/19 06:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/02/19 06:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/02/19 06:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/02/19 06:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/02/19 06:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/02/19 06:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/02/19 06:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/02/19 06:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/02/19 06:35	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			03/02/19 06:35	1
2-Hexanone	ND		5.0	1.2	ug/L			03/02/19 06:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/02/19 06:35	1
Acetone	ND		10	3.0	ug/L			03/02/19 06:35	1
Benzene	ND		1.0	0.41	ug/L			03/02/19 06:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/02/19 06:35	1
Bromoform	ND		1.0	0.26	ug/L			03/02/19 06:35	1
Bromomethane	ND		1.0	0.69	ug/L			03/02/19 06:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/02/19 06:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/02/19 06:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/02/19 06:35	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			03/02/19 06:35	1
Chloroethane	ND		1.0	0.32	ug/L			03/02/19 06:35	1
Chloroform	ND		1.0	0.34	ug/L			03/02/19 06:35	1
Chloromethane	ND		1.0	0.35	ug/L			03/02/19 06:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/02/19 06:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/02/19 06:35	1
Cyclohexane	ND		1.0	0.18	ug/L			03/02/19 06:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/02/19 06:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/02/19 06:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/02/19 06:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/02/19 06:35	1
Methyl acetate	ND		2.5	1.3	ug/L			03/02/19 06:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/02/19 06:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/02/19 06:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/02/19 06:35	1
Styrene	ND		1.0	0.73	ug/L			03/02/19 06:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/02/19 06:35	1
Toluene	ND		1.0	0.51	ug/L			03/02/19 06:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/02/19 06:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/02/19 06:35	1
Trichloroethene	ND		1.0	0.46	ug/L			03/02/19 06:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/02/19 06:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/02/19 06:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/02/19 06:35	1

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-149618-10

Date Collected: 02/26/19 00:00

Matrix: Water

Date Received: 03/01/19 09:15

<u>Tentatively Identified Compound</u>	<u>Est. Result</u>	<u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>RT</u>	<u>CAS No.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Tentatively Identified Compound	None		ug/L					03/02/19 06:35	1
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Toluene-d8 (Surr)	99		80 - 120					03/02/19 06:35	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					03/02/19 06:35	1
4-Bromofluorobenzene (Surr)	105		73 - 120					03/02/19 06:35	1
Dibromofluoromethane (Surr)	104		75 - 123					03/02/19 06:35	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-149618-1	ML-2D	95	101	108	105
480-149618-2	ML-2S	98	103	109	104
480-149618-3	ML-2I	100	107	110	108
480-149618-4	ML-7I	101	101	111	103
480-149618-5	ML-7D	102	102	110	103
480-149618-6	GMX-MW3	96	102	106	108
480-149618-6 - DL	GMX-MW3	101	103	110	103
480-149618-7	LAB-SBW-16	101	106	111	106
480-149618-8	LAB-SBW-15	99	104	109	104
480-149618-8 MS	LAB-SBW-15	101	99	107	104
480-149618-8 MSD	LAB-SBW-15	104	102	112	107
480-149618-9	DUPE	99	98	105	102
480-149618-9 - DL	DUPE	99	104	108	105
480-149618-10	TRIP BLANK	99	103	105	104
LCS 480-461126/5	Lab Control Sample	99	98	108	102
LCS 480-461282/5	Lab Control Sample	102	106	107	107
LCS 480-461298/5	Lab Control Sample	101	104	105	108
MB 480-461126/9	Method Blank	99	106	108	105
MB 480-461282/9	Method Blank	99	101	111	100
MB 480-461298/8	Method Blank	99	108	111	109

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-461126/9

Matrix: Water

Analysis Batch: 461126

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/01/19 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/01/19 12:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/01/19 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/01/19 12:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/01/19 12:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/01/19 12:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/01/19 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/01/19 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/01/19 12:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/01/19 12:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/01/19 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/01/19 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/01/19 12:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/01/19 12:04	1
2-Hexanone	ND		5.0	1.2	ug/L			03/01/19 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/01/19 12:04	1
Acetone	ND		10	3.0	ug/L			03/01/19 12:04	1
Benzene	ND		1.0	0.41	ug/L			03/01/19 12:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/01/19 12:04	1
Bromoform	ND		1.0	0.26	ug/L			03/01/19 12:04	1
Bromomethane	ND		1.0	0.69	ug/L			03/01/19 12:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/01/19 12:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/01/19 12:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/01/19 12:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/01/19 12:04	1
Chloroethane	ND		1.0	0.32	ug/L			03/01/19 12:04	1
Chloroform	ND		1.0	0.34	ug/L			03/01/19 12:04	1
Chloromethane	ND		1.0	0.35	ug/L			03/01/19 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/01/19 12:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/01/19 12:04	1
Cyclohexane	ND		1.0	0.18	ug/L			03/01/19 12:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/01/19 12:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/01/19 12:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/01/19 12:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/01/19 12:04	1
Methyl acetate	ND		2.5	1.3	ug/L			03/01/19 12:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/01/19 12:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/01/19 12:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/01/19 12:04	1
Styrene	ND		1.0	0.73	ug/L			03/01/19 12:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/01/19 12:04	1
Toluene	ND		1.0	0.51	ug/L			03/01/19 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/01/19 12:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/01/19 12:04	1
Trichloroethene	ND		1.0	0.46	ug/L			03/01/19 12:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/01/19 12:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/01/19 12:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/01/19 12:04	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>03/01/19 12:04</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>99</i>		<i>80 - 120</i>		<i>03/01/19 12:04</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>106</i>		<i>77 - 120</i>		<i>03/01/19 12:04</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>108</i>		<i>73 - 120</i>		<i>03/01/19 12:04</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>105</i>		<i>75 - 123</i>		<i>03/01/19 12:04</i>	<i>1</i>

Lab Sample ID: LCS 480-461126/5
Matrix: Water
Analysis Batch: 461126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		112	61 - 148
1,1-Dichloroethane	25.0	23.3		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	26.0		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		87	56 - 134
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	22.0		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	24.4		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	130		ug/L		104	57 - 140
2-Hexanone	125	133		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	71 - 125
Acetone	125	135		ug/L		108	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	26.7		ug/L		107	80 - 122
Bromoform	25.0	29.8		ug/L		119	61 - 132
Bromomethane	25.0	27.1		ug/L		108	55 - 144
Carbon disulfide	25.0	21.4		ug/L		85	59 - 134
Carbon tetrachloride	25.0	28.7		ug/L		115	72 - 134
Chlorobenzene	25.0	24.1		ug/L		96	80 - 120
Dibromochloromethane	25.0	29.1		ug/L		116	75 - 125
Chloroethane	25.0	26.8		ug/L		107	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	27.5		ug/L		110	68 - 124
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	27.9		ug/L		112	74 - 124
Cyclohexane	25.0	27.4		ug/L		110	59 - 135
Dichlorodifluoromethane	25.0	31.6		ug/L		126	59 - 135
Ethylbenzene	25.0	23.9		ug/L		96	77 - 123
1,2-Dibromoethane	25.0	25.5		ug/L		102	77 - 120
Isopropylbenzene	25.0	23.8		ug/L		95	77 - 122
Methyl acetate	50.0	36.0 *		ug/L		72	74 - 133
Methyl tert-butyl ether	25.0	23.0		ug/L		92	77 - 120
Methylcyclohexane	25.0	27.9		ug/L		112	68 - 134
Methylene Chloride	25.0	22.6		ug/L		90	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-461126/5

Matrix: Water

Analysis Batch: 461126

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	27.6		ug/L		110	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	73 - 127
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	27.9		ug/L		111	62 - 150
Vinyl chloride	25.0	28.7		ug/L		115	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: MB 480-461282/9

Matrix: Water

Analysis Batch: 461282

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/02/19 00:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/02/19 00:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/02/19 00:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/02/19 00:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/02/19 00:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/02/19 00:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/02/19 00:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/02/19 00:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/02/19 00:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/02/19 00:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/02/19 00:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/02/19 00:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/02/19 00:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/02/19 00:12	1
2-Hexanone	ND		5.0	1.2	ug/L			03/02/19 00:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/02/19 00:12	1
Acetone	ND		10	3.0	ug/L			03/02/19 00:12	1
Benzene	ND		1.0	0.41	ug/L			03/02/19 00:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/02/19 00:12	1
Bromoform	ND		1.0	0.26	ug/L			03/02/19 00:12	1
Bromomethane	ND		1.0	0.69	ug/L			03/02/19 00:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/02/19 00:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/02/19 00:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/02/19 00:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/02/19 00:12	1
Chloroethane	ND		1.0	0.32	ug/L			03/02/19 00:12	1
Chloroform	ND		1.0	0.34	ug/L			03/02/19 00:12	1
Chloromethane	ND		1.0	0.35	ug/L			03/02/19 00:12	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-461282/9
Matrix: Water
Analysis Batch: 461282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/02/19 00:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/02/19 00:12	1
Cyclohexane	ND		1.0	0.18	ug/L			03/02/19 00:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/02/19 00:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/02/19 00:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/02/19 00:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/02/19 00:12	1
Methyl acetate	ND		2.5	1.3	ug/L			03/02/19 00:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/02/19 00:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/02/19 00:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/02/19 00:12	1
Styrene	ND		1.0	0.73	ug/L			03/02/19 00:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/02/19 00:12	1
Toluene	ND		1.0	0.51	ug/L			03/02/19 00:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/02/19 00:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/02/19 00:12	1
Trichloroethene	ND		1.0	0.46	ug/L			03/02/19 00:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/02/19 00:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/02/19 00:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/02/19 00:12	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.413	J	ug/L		10.88	87-68-3		03/02/19 00:12	1
Tentatively Identified Compound	None		ug/L					03/02/19 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		03/02/19 00:12	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/02/19 00:12	1
4-Bromofluorobenzene (Surr)	111		73 - 120		03/02/19 00:12	1
Dibromofluoromethane (Surr)	100		75 - 123		03/02/19 00:12	1

Lab Sample ID: LCS 480-461282/5
Matrix: Water
Analysis Batch: 461282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	73 - 126
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	76 - 120
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	76 - 122
1,1,2-Trichloro-1,1,2,2-trifluoroethane	25.0	29.6		ug/L		118	61 - 148
1,1-Dichloroethane	25.0	25.1		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	28.2		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.8		ug/L		99	56 - 134
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.4		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	26.2		ug/L		105	76 - 120

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-461282/5

Matrix: Water

Analysis Batch: 461282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 120
2-Butanone (MEK)	125	244	*	ug/L		195	57 - 140
2-Hexanone	125	136		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	26.5		ug/L		106	71 - 124
Bromodichloromethane	25.0	29.3		ug/L		117	80 - 122
Bromoform	25.0	32.2		ug/L		129	61 - 132
Bromomethane	25.0	25.5		ug/L		102	55 - 144
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134
Carbon tetrachloride	25.0	30.9		ug/L		123	72 - 134
Chlorobenzene	25.0	25.6		ug/L		103	80 - 120
Dibromochloromethane	25.0	31.5	*	ug/L		126	75 - 125
Chloroethane	25.0	26.0		ug/L		104	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	23.6		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	30.7		ug/L		123	74 - 124
Cyclohexane	25.0	29.6		ug/L		118	59 - 135
Dichlorodifluoromethane	25.0	24.2		ug/L		97	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	28.2		ug/L		113	77 - 120
Isopropylbenzene	25.0	24.9		ug/L		99	77 - 122
Methyl acetate	50.0	44.8		ug/L		90	74 - 133
Methyl tert-butyl ether	25.0	25.4		ug/L		102	77 - 120
Methylcyclohexane	25.0	29.9		ug/L		120	68 - 134
Methylene Chloride	25.0	25.6		ug/L		102	75 - 124
Styrene	25.0	26.1		ug/L		104	80 - 120
Tetrachloroethene	25.0	30.5		ug/L		122	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	28.2		ug/L		113	80 - 120
Trichloroethene	25.0	26.9		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	25.9		ug/L		104	62 - 150
Vinyl chloride	25.0	25.5		ug/L		102	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-461298/8

Matrix: Water

Analysis Batch: 461298

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/02/19 15:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/02/19 15:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/02/19 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/02/19 15:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/02/19 15:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/02/19 15:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/02/19 15:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/02/19 15:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/02/19 15:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/02/19 15:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/02/19 15:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/02/19 15:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/02/19 15:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/02/19 15:51	1
2-Hexanone	ND		5.0	1.2	ug/L			03/02/19 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/02/19 15:51	1
Acetone	ND		10	3.0	ug/L			03/02/19 15:51	1
Benzene	ND		1.0	0.41	ug/L			03/02/19 15:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/02/19 15:51	1
Bromoform	ND		1.0	0.26	ug/L			03/02/19 15:51	1
Bromomethane	ND		1.0	0.69	ug/L			03/02/19 15:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/02/19 15:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/02/19 15:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/02/19 15:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/02/19 15:51	1
Chloroethane	ND		1.0	0.32	ug/L			03/02/19 15:51	1
Chloroform	ND		1.0	0.34	ug/L			03/02/19 15:51	1
Chloromethane	ND		1.0	0.35	ug/L			03/02/19 15:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/02/19 15:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/02/19 15:51	1
Cyclohexane	ND		1.0	0.18	ug/L			03/02/19 15:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/02/19 15:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/02/19 15:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/02/19 15:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/02/19 15:51	1
Methyl acetate	ND		2.5	1.3	ug/L			03/02/19 15:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/02/19 15:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/02/19 15:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/02/19 15:51	1
Styrene	ND		1.0	0.73	ug/L			03/02/19 15:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/02/19 15:51	1
Toluene	ND		1.0	0.51	ug/L			03/02/19 15:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/02/19 15:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/02/19 15:51	1
Trichloroethene	ND		1.0	0.46	ug/L			03/02/19 15:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/02/19 15:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/02/19 15:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/02/19 15:51	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Tentatively Identified Compound	MB MB		Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
1-Chlorohexane	0.649	J	ug/L		7.25	544-10-5		03/02/19 15:51	1
Hexachlorobutadiene	0.406	J	ug/L		10.88	87-68-3		03/02/19 15:51	1
Tentatively Identified Compound	None		ug/L					03/02/19 15:51	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		80 - 120		03/02/19 15:51	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		03/02/19 15:51	1
4-Bromofluorobenzene (Surr)	111		73 - 120		03/02/19 15:51	1
Dibromofluoromethane (Surr)	109		75 - 123		03/02/19 15:51	1

Lab Sample ID: LCS 480-461298/5
Matrix: Water
Analysis Batch: 461298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	28.0		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	76 - 120
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.0		ug/L		120	61 - 148
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	28.6		ug/L		114	66 - 127
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	56 - 134
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	26.6		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120
2-Butanone (MEK)	125	134		ug/L		107	57 - 140
2-Hexanone	125	133		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	28.0		ug/L		112	71 - 124
Bromodichloromethane	25.0	29.6		ug/L		119	80 - 122
Bromoform	25.0	31.0		ug/L		124	61 - 132
Bromomethane	25.0	28.7		ug/L		115	55 - 144
Carbon disulfide	25.0	25.5		ug/L		102	59 - 134
Carbon tetrachloride	25.0	31.7		ug/L		127	72 - 134
Chlorobenzene	25.0	25.4		ug/L		102	80 - 120
Dibromochloromethane	25.0	30.3		ug/L		121	75 - 125
Chloroethane	25.0	27.9		ug/L		112	69 - 136
Chloroform	25.0	25.4		ug/L		102	73 - 127
Chloromethane	25.0	28.4		ug/L		114	68 - 124
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	30.2		ug/L		121	74 - 124
Cyclohexane	25.0	29.9		ug/L		120	59 - 135
Dichlorodifluoromethane	25.0	31.2		ug/L		125	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
1,2-Dibromoethane	25.0	27.8		ug/L		111	77 - 120
Isopropylbenzene	25.0	24.9		ug/L		100	77 - 122
Methyl acetate	50.0	43.2		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	25.0		ug/L		100	77 - 120

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-461298/5

Matrix: Water

Analysis Batch: 461298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	25.0	30.1		ug/L		120	68 - 134
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124
Styrene	25.0	25.6		ug/L		102	80 - 120
Tetrachloroethene	25.0	28.7		ug/L		115	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	73 - 127
trans-1,3-Dichloropropene	25.0	28.5		ug/L		114	80 - 120
Trichloroethene	25.0	27.8		ug/L		111	74 - 123
Trichlorofluoromethane	25.0	28.0		ug/L		112	62 - 150
Vinyl chloride	25.0	29.4		ug/L		117	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Lab Sample ID: 480-149618-8 MS

Matrix: Water

Analysis Batch: 461298

Client Sample ID: LAB-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		100	112		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	ND		100	92.7		ug/L		93	76 - 120
1,1,2-Trichloroethane	ND		100	101		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	124		ug/L		124	61 - 148
1,1-Dichloroethane	3.7	J	100	104		ug/L		100	77 - 120
1,1-Dichloroethene	ND		100	113		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	ND		100	90.1		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	ND		100	86.8		ug/L		87	56 - 134
1,2-Dichlorobenzene	ND		100	94.3		ug/L		94	80 - 124
1,2-Dichloroethane	ND		100	94.9		ug/L		95	75 - 120
1,2-Dichloropropane	ND		100	103		ug/L		103	76 - 120
1,3-Dichlorobenzene	ND		100	95.5		ug/L		96	77 - 120
1,4-Dichlorobenzene	ND		100	94.3		ug/L		94	78 - 124
2-Butanone (MEK)	ND	*	500	495		ug/L		99	57 - 140
2-Hexanone	ND		500	526		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		500	471		ug/L		94	71 - 125
Acetone	ND		500	429		ug/L		86	56 - 142
Benzene	4.3		100	112		ug/L		108	71 - 124
Bromodichloromethane	ND		100	114		ug/L		114	80 - 122
Bromoform	ND		100	122		ug/L		122	61 - 132
Bromomethane	ND		100	105		ug/L		105	55 - 144
Carbon disulfide	ND		100	101		ug/L		101	59 - 134
Carbon tetrachloride	ND		100	125		ug/L		125	72 - 134
Chlorobenzene	ND		100	103		ug/L		103	80 - 120
Dibromochloromethane	ND	F1 *	100	120		ug/L		120	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-149618-8 MS

Matrix: Water

Analysis Batch: 461298

Client Sample ID: LAB-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	69		100	166		ug/L		97	69 - 136
Chloroform	ND		100	101		ug/L		101	73 - 127
Chloromethane	ND		100	98.6		ug/L		99	68 - 124
cis-1,2-Dichloroethene	ND		100	99.3		ug/L		99	74 - 124
cis-1,3-Dichloropropene	ND		100	111		ug/L		111	74 - 124
Cyclohexane	ND		100	118		ug/L		118	59 - 135
Dichlorodifluoromethane	ND		100	120		ug/L		120	59 - 135
Ethylbenzene	ND		100	102		ug/L		102	77 - 123
1,2-Dibromoethane	ND		100	111		ug/L		111	77 - 120
Isopropylbenzene	ND		100	97.5		ug/L		98	77 - 122
Methyl acetate	ND		200	164		ug/L		82	74 - 133
Methyl tert-butyl ether	1.6	J	100	98.5		ug/L		97	77 - 120
Methylcyclohexane	2.6	J	100	120		ug/L		117	68 - 134
Methylene Chloride	5.1		100	99.0		ug/L		94	75 - 124
Styrene	ND		100	103		ug/L		103	80 - 120
Tetrachloroethene	ND		100	116		ug/L		116	74 - 122
Toluene	2.3	J	100	106		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		100	107		ug/L		107	73 - 127
trans-1,3-Dichloropropene	ND		100	108		ug/L		108	80 - 120
Trichloroethene	ND		100	108		ug/L		108	74 - 123
Trichlorofluoromethane	ND		100	109		ug/L		109	62 - 150
Vinyl chloride	ND		100	110		ug/L		110	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: 480-149618-8 MSD

Matrix: Water

Analysis Batch: 461298

Client Sample ID: LAB-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		100	108		ug/L		108	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		100	95.3		ug/L		95	76 - 120	3	15
1,1,2-Trichloroethane	ND		100	104		ug/L		104	76 - 122	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	113		ug/L		113	61 - 148	9	20
1,1-Dichloroethane	3.7	J	100	99.2		ug/L		96	77 - 120	4	20
1,1-Dichloroethene	ND		100	105		ug/L		105	66 - 127	7	16
1,2,4-Trichlorobenzene	ND		100	90.5		ug/L		90	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		100	92.5		ug/L		92	56 - 134	6	15
1,2-Dichlorobenzene	ND		100	95.7		ug/L		96	80 - 124	1	20
1,2-Dichloroethane	ND		100	94.1		ug/L		94	75 - 120	1	20
1,2-Dichloropropane	ND		100	99.9		ug/L		100	76 - 120	3	20
1,3-Dichlorobenzene	ND		100	94.9		ug/L		95	77 - 120	1	20
1,4-Dichlorobenzene	ND		100	96.1		ug/L		96	78 - 124	2	20

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-149618-8 MSD

Matrix: Water

Analysis Batch: 461298

Client Sample ID: LAB-SBW-15

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	ND	*	500	507		ug/L		101	57 - 140	2	20
2-Hexanone	ND		500	544		ug/L		109	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		500	477		ug/L		95	71 - 125	1	35
Acetone	ND		500	430		ug/L		86	56 - 142	0	15
Benzene	4.3		100	109		ug/L		105	71 - 124	3	13
Bromodichloromethane	ND		100	112		ug/L		112	80 - 122	2	15
Bromoform	ND		100	128		ug/L		128	61 - 132	5	15
Bromomethane	ND		100	97.9		ug/L		98	55 - 144	7	15
Carbon disulfide	ND		100	93.2		ug/L		93	59 - 134	8	15
Carbon tetrachloride	ND		100	119		ug/L		119	72 - 134	5	15
Chlorobenzene	ND		100	104		ug/L		104	80 - 120	0	25
Dibromochloromethane	ND	F1 *	100	126	F1	ug/L		126	75 - 125	5	15
Chloroethane	69		100	156		ug/L		87	69 - 136	6	15
Chloroform	ND		100	97.6		ug/L		98	73 - 127	3	20
Chloromethane	ND		100	93.2		ug/L		93	68 - 124	6	15
cis-1,2-Dichloroethene	ND		100	98.6		ug/L		99	74 - 124	1	15
cis-1,3-Dichloropropene	ND		100	111		ug/L		111	74 - 124	0	15
Cyclohexane	ND		100	111		ug/L		111	59 - 135	6	20
Dichlorodifluoromethane	ND		100	111		ug/L		111	59 - 135	8	20
Ethylbenzene	ND		100	102		ug/L		102	77 - 123	1	15
1,2-Dibromoethane	ND		100	114		ug/L		114	77 - 120	2	15
Isopropylbenzene	ND		100	95.8		ug/L		96	77 - 122	2	20
Methyl acetate	ND		200	161		ug/L		80	74 - 133	2	20
Methyl tert-butyl ether	1.6	J	100	98.6		ug/L		97	77 - 120	0	37
Methylcyclohexane	2.6	J	100	112		ug/L		110	68 - 134	6	20
Methylene Chloride	5.1		100	95.6		ug/L		90	75 - 124	4	15
Styrene	ND		100	101		ug/L		101	80 - 120	2	20
Tetrachloroethene	ND		100	114		ug/L		114	74 - 122	1	20
Toluene	2.3	J	100	106		ug/L		103	80 - 122	0	15
trans-1,2-Dichloroethene	ND		100	102		ug/L		102	73 - 127	4	20
trans-1,3-Dichloropropene	ND		100	112		ug/L		112	80 - 120	4	15
Trichloroethene	ND		100	104		ug/L		104	74 - 123	4	16
Trichlorofluoromethane	ND		100	100		ug/L		100	62 - 150	8	20
Vinyl chloride	ND		100	105		ug/L		105	65 - 133	5	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	112		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

GC/MS VOA

Analysis Batch: 461126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-149618-3	ML-2I	Total/NA	Water	8260C	
480-149618-5	ML-7D	Total/NA	Water	8260C	
480-149618-6	GMX-MW3	Total/NA	Water	8260C	
480-149618-9	DUPE	Total/NA	Water	8260C	
MB 480-461126/9	Method Blank	Total/NA	Water	8260C	
LCS 480-461126/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 461282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-149618-1	ML-2D	Total/NA	Water	8260C	
480-149618-2	ML-2S	Total/NA	Water	8260C	
480-149618-4	ML-7I	Total/NA	Water	8260C	
480-149618-6 - DL	GMX-MW3	Total/NA	Water	8260C	
480-149618-7	LAB-SBW-16	Total/NA	Water	8260C	
480-149618-8	LAB-SBW-15	Total/NA	Water	8260C	
480-149618-9 - DL	DUPE	Total/NA	Water	8260C	
480-149618-10	TRIP BLANK	Total/NA	Water	8260C	
MB 480-461282/9	Method Blank	Total/NA	Water	8260C	
LCS 480-461282/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 461298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-461298/8	Method Blank	Total/NA	Water	8260C	
LCS 480-461298/5	Lab Control Sample	Total/NA	Water	8260C	
480-149618-8 MS	LAB-SBW-15	Total/NA	Water	8260C	
480-149618-8 MSD	LAB-SBW-15	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: ML-2D

Date Collected: 02/27/19 13:35

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	461282	03/02/19 03:27	OMI	TAL BUF

Client Sample ID: ML-2S

Date Collected: 02/27/19 12:50

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	461282	03/02/19 03:54	OMI	TAL BUF

Client Sample ID: ML-2I

Date Collected: 02/27/19 12:00

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	461126	03/01/19 16:39	NMC	TAL BUF

Client Sample ID: ML-7I

Date Collected: 02/28/19 12:15

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	461282	03/02/19 04:21	OMI	TAL BUF

Client Sample ID: ML-7D

Date Collected: 02/26/19 16:55

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	461126	03/01/19 17:33	NMC	TAL BUF

Client Sample ID: GMX-MW3

Date Collected: 02/27/19 11:05

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	461126	03/01/19 18:52	NMC	TAL BUF
Total/NA	Analysis	8260C	DL	5	461282	03/02/19 04:48	OMI	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Client Sample ID: LAB-SBW-16

Date Collected: 02/26/19 15:25

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	461282	03/02/19 05:15	OMI	TAL BUF

Client Sample ID: LAB-SBW-15

Date Collected: 02/26/19 11:05

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	461282	03/02/19 05:42	OMI	TAL BUF

Client Sample ID: DUPE

Date Collected: 02/26/19 12:15

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	461126	03/01/19 19:19	NMC	TAL BUF
Total/NA	Analysis	8260C	DL	5	461282	03/02/19 06:08	OMI	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 02/26/19 00:00

Date Received: 03/01/19 09:15

Lab Sample ID: 480-149618-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	461282	03/02/19 06:35	OMI	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-149618-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2D	480-149618-1	105	101	95	108
ML-2S	480-149618-2	104	103	98	109
ML-2I	480-149618-3	108	107	100	110
ML-7I	480-149618-4	103	101	101	111
ML-7D	480-149618-5	103	102	102	110
GMX-MW3	480-149618-6	108	102	96	106
GMX-MW3 DL	480-149618-6 DL	103	103	101	110
LAB-SBW-16	480-149618-7	106	106	101	111
LAB-SBW-15	480-149618-8	104	104	99	109
DUPE	480-149618-9	102	98	99	105
DUPE DL	480-149618-9 DL	105	104	99	108
TRIP BLANK	480-149618-10	104	103	99	105
	MB 480-461126/9	105	106	99	108
	MB 480-461282/9	100	101	99	111
	MB 480-461298/8	109	108	99	111
	LCS 480-461126/5	102	98	99	108
	LCS 480-461282/5	107	106	102	107
	LCS 480-461298/5	108	104	101	105
LAB-SBW-15 MS	480-149618-8 MS	104	99	101	107
LAB-SBW-15 MSD	480-149618-8 MSD	107	102	104	112

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C4978.D

Lab ID: LCS 480-461126/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.1	100	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.9	92	76-120	
1,1,2-Trichloroethane	25.0	23.8	95	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1	112	61-148	
1,1-Dichloroethane	25.0	23.3	93	77-120	
1,1-Dichloroethene	25.0	26.0	104	66-127	
1,2,4-Trichlorobenzene	25.0	23.1	93	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.6	87	56-134	
1,2-Dichlorobenzene	25.0	23.3	93	80-124	
1,2-Dichloroethane	25.0	22.0	88	75-120	
1,2-Dichloropropane	25.0	24.4	98	76-120	
1,3-Dichlorobenzene	25.0	23.8	95	77-120	
1,4-Dichlorobenzene	25.0	23.7	95	80-120	
2-Butanone (MEK)	125	130	104	57-140	
2-Hexanone	125	133	106	65-127	
4-Methyl-2-pentanone (MIBK)	125	112	90	71-125	
Acetone	125	135	108	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	26.7	107	80-122	
Bromoform	25.0	29.8	119	61-132	
Bromomethane	25.0	27.1	108	55-144	
Carbon disulfide	25.0	21.4	85	59-134	
Carbon tetrachloride	25.0	28.7	115	72-134	
Chlorobenzene	25.0	24.1	96	80-120	
Dibromochloromethane	25.0	29.1	116	75-125	
Chloroethane	25.0	26.8	107	69-136	
Chloroform	25.0	23.2	93	73-127	
Chloromethane	25.0	27.5	110	68-124	
cis-1,2-Dichloroethene	25.0	23.3	93	74-124	
cis-1,3-Dichloropropene	25.0	27.9	112	74-124	
Cyclohexane	25.0	27.4	110	59-135	
Dichlorodifluoromethane	25.0	31.6	126	59-135	
Ethylbenzene	25.0	23.9	96	77-123	
1,2-Dibromoethane	25.0	25.5	102	77-120	
Isopropylbenzene	25.0	23.8	95	77-122	
Methyl acetate	50.0	36.0	72	74-133	*
Methyl tert-butyl ether	25.0	23.0	92	77-120	
Methylcyclohexane	25.0	27.9	112	68-134	
Methylene Chloride	25.0	22.6	90	75-124	
Styrene	25.0	24.8	99	80-120	
Tetrachloroethene	25.0	27.6	110	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C4978.D

Lab ID: LCS 480-461126/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.2	97	80-122	
trans-1,2-Dichloroethene	25.0	24.3	97	73-127	
trans-1,3-Dichloropropene	25.0	26.8	107	80-120	
Trichloroethene	25.0	24.6	98	74-123	
Trichlorofluoromethane	25.0	27.9	111	62-150	
Vinyl chloride	25.0	28.7	115	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C5003.D

Lab ID: LCS 480-461282/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.3	109	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.8	99	76-120	
1,1,2-Trichloroethane	25.0	25.6	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.6	118	61-148	
1,1-Dichloroethane	25.0	25.1	101	77-120	
1,1-Dichloroethene	25.0	28.2	113	66-127	
1,2,4-Trichlorobenzene	25.0	24.1	96	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.8	99	56-134	
1,2-Dichlorobenzene	25.0	24.3	97	80-124	
1,2-Dichloroethane	25.0	23.4	94	75-120	
1,2-Dichloropropane	25.0	26.2	105	76-120	
1,3-Dichlorobenzene	25.0	23.9	96	77-120	
1,4-Dichlorobenzene	25.0	24.2	97	80-120	
2-Butanone (MEK)	125	244	195	57-140	*
2-Hexanone	125	136	108	65-127	
4-Methyl-2-pentanone (MIBK)	125	121	97	71-125	
Acetone	125	113	90	56-142	
Benzene	25.0	26.5	106	71-124	
Bromodichloromethane	25.0	29.3	117	80-122	
Bromoform	25.0	32.2	129	61-132	
Bromomethane	25.0	25.5	102	55-144	
Carbon disulfide	25.0	23.8	95	59-134	
Carbon tetrachloride	25.0	30.9	123	72-134	
Chlorobenzene	25.0	25.6	103	80-120	
Dibromochloromethane	25.0	31.5	126	75-125	*
Chloroethane	25.0	26.0	104	69-136	
Chloroform	25.0	24.5	98	73-127	
Chloromethane	25.0	23.6	95	68-124	
cis-1,2-Dichloroethene	25.0	24.7	99	74-124	
cis-1,3-Dichloropropene	25.0	30.7	123	74-124	
Cyclohexane	25.0	29.6	118	59-135	
Dichlorodifluoromethane	25.0	24.2	97	59-135	
Ethylbenzene	25.0	25.1	100	77-123	
1,2-Dibromoethane	25.0	28.2	113	77-120	
Isopropylbenzene	25.0	24.9	99	77-122	
Methyl acetate	50.0	44.8	90	74-133	
Methyl tert-butyl ether	25.0	25.4	102	77-120	
Methylcyclohexane	25.0	29.9	120	68-134	
Methylene Chloride	25.0	25.6	102	75-124	
Styrene	25.0	26.1	104	80-120	
Tetrachloroethene	25.0	30.5	122	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C5003.D

Lab ID: LCS 480-461282/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.7	103	80-122	
trans-1,2-Dichloroethene	25.0	26.0	104	73-127	
trans-1,3-Dichloropropene	25.0	28.2	113	80-120	
Trichloroethene	25.0	26.9	107	74-123	
Trichlorofluoromethane	25.0	25.9	104	62-150	
Vinyl chloride	25.0	25.5	102	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C5030.D

Lab ID: LCS 480-461298/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	28.0	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.9	96	76-120	
1,1,2-Trichloroethane	25.0	25.1	100	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.0	120	61-148	
1,1-Dichloroethane	25.0	25.7	103	77-120	
1,1-Dichloroethene	25.0	28.6	114	66-127	
1,2,4-Trichlorobenzene	25.0	24.2	97	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.6	94	56-134	
1,2-Dichlorobenzene	25.0	24.4	97	80-124	
1,2-Dichloroethane	25.0	24.6	98	75-120	
1,2-Dichloropropane	25.0	26.6	106	76-120	
1,3-Dichlorobenzene	25.0	25.0	100	77-120	
1,4-Dichlorobenzene	25.0	24.7	99	80-120	
2-Butanone (MEK)	125	134	107	57-140	
2-Hexanone	125	133	107	65-127	
4-Methyl-2-pentanone (MIBK)	125	117	94	71-125	
Acetone	125	130	104	56-142	
Benzene	25.0	28.0	112	71-124	
Bromodichloromethane	25.0	29.6	119	80-122	
Bromoform	25.0	31.0	124	61-132	
Bromomethane	25.0	28.7	115	55-144	
Carbon disulfide	25.0	25.5	102	59-134	
Carbon tetrachloride	25.0	31.7	127	72-134	
Chlorobenzene	25.0	25.4	102	80-120	
Dibromochloromethane	25.0	30.3	121	75-125	
Chloroethane	25.0	27.9	112	69-136	
Chloroform	25.0	25.4	102	73-127	
Chloromethane	25.0	28.4	114	68-124	
cis-1,2-Dichloroethene	25.0	25.6	102	74-124	
cis-1,3-Dichloropropene	25.0	30.2	121	74-124	
Cyclohexane	25.0	29.9	120	59-135	
Dichlorodifluoromethane	25.0	31.2	125	59-135	
Ethylbenzene	25.0	24.8	99	77-123	
1,2-Dibromoethane	25.0	27.8	111	77-120	
Isopropylbenzene	25.0	24.9	100	77-122	
Methyl acetate	50.0	43.2	86	74-133	
Methyl tert-butyl ether	25.0	25.0	100	77-120	
Methylcyclohexane	25.0	30.1	120	68-134	
Methylene Chloride	25.0	25.0	100	75-124	
Styrene	25.0	25.6	102	80-120	
Tetrachloroethene	25.0	28.7	115	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C5030.D

Lab ID: LCS 480-461298/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.7	103	80-122	
trans-1,2-Dichloroethene	25.0	27.3	109	73-127	
trans-1,3-Dichloropropene	25.0	28.5	114	80-120	
Trichloroethene	25.0	27.8	111	74-123	
Trichlorofluoromethane	25.0	28.0	112	62-150	
Vinyl chloride	25.0	29.4	117	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: C5047.D

Lab ID: 480-149618-8 MS

Client ID: LAB-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	ND	112	112	73-126	
1,1,2,2-Tetrachloroethane	100	ND	92.7	93	76-120	
1,1,2-Trichloroethane	100	ND	101	101	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	ND	124	124	61-148	
1,1-Dichloroethane	100	3.7 J	104	100	77-120	
1,1-Dichloroethene	100	ND	113	113	66-127	
1,2,4-Trichlorobenzene	100	ND	90.1	90	79-122	
1,2-Dibromo-3-Chloropropane	100	ND	86.8	87	56-134	
1,2-Dichlorobenzene	100	ND	94.3	94	80-124	
1,2-Dichloroethane	100	ND	94.9	95	75-120	
1,2-Dichloropropane	100	ND	103	103	76-120	
1,3-Dichlorobenzene	100	ND	95.5	96	77-120	
1,4-Dichlorobenzene	100	ND	94.3	94	78-124	
2-Butanone (MEK)	500	ND	495	99	57-140	
2-Hexanone	500	ND	526	105	65-127	
4-Methyl-2-pentanone (MIBK)	500	ND	471	94	71-125	
Acetone	500	ND	429	86	56-142	
Benzene	100	4.3	112	108	71-124	
Bromodichloromethane	100	ND	114	114	80-122	
Bromoform	100	ND	122	122	61-132	
Bromomethane	100	ND	105	105	55-144	
Carbon disulfide	100	ND	101	101	59-134	
Carbon tetrachloride	100	ND	125	125	72-134	
Chlorobenzene	100	ND	103	103	80-120	
Dibromochloromethane	100	ND	120	120	75-125	
Chloroethane	100	69	166	97	69-136	
Chloroform	100	ND	101	101	73-127	
Chloromethane	100	ND	98.6	99	68-124	
cis-1,2-Dichloroethene	100	ND	99.3	99	74-124	
cis-1,3-Dichloropropene	100	ND	111	111	74-124	
Cyclohexane	100	ND	118	118	59-135	
Dichlorodifluoromethane	100	ND	120	120	59-135	
Ethylbenzene	100	ND	102	102	77-123	
1,2-Dibromoethane	100	ND	111	111	77-120	
Isopropylbenzene	100	ND	97.5	98	77-122	
Methyl acetate	200	ND	164	82	74-133	
Methyl tert-butyl ether	100	1.6 J	98.5	97	77-120	
Methylcyclohexane	100	2.6 J	120	117	68-134	
Methylene Chloride	100	5.1	99.0	94	75-124	
Styrene	100	ND	103	103	80-120	
Tetrachloroethene	100	ND	116	116	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: C5047.D

Lab ID: 480-149618-8 MS Client ID: LAB-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	100	2.3 J	106	103	80-122	
trans-1,2-Dichloroethene	100	ND	107	107	73-127	
trans-1,3-Dichloropropene	100	ND	108	108	80-120	
Trichloroethene	100	ND	108	108	74-123	
Trichlorofluoromethane	100	ND	109	109	62-150	
Vinyl chloride	100	ND	110	110	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: C5048.D

Lab ID: 480-149618-8 MSD

Client ID: LAB-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	100	108	108	4	15	73-126	
1,1,2,2-Tetrachloroethane	100	95.3	95	3	15	76-120	
1,1,2-Trichloroethane	100	104	104	3	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	113	113	9	20	61-148	
1,1-Dichloroethane	100	99.2	96	4	20	77-120	
1,1-Dichloroethene	100	105	105	7	16	66-127	
1,2,4-Trichlorobenzene	100	90.5	90	0	20	79-122	
1,2-Dibromo-3-Chloropropane	100	92.5	92	6	15	56-134	
1,2-Dichlorobenzene	100	95.7	96	1	20	80-124	
1,2-Dichloroethane	100	94.1	94	1	20	75-120	
1,2-Dichloropropane	100	99.9	100	3	20	76-120	
1,3-Dichlorobenzene	100	94.9	95	1	20	77-120	
1,4-Dichlorobenzene	100	96.1	96	2	20	78-124	
2-Butanone (MEK)	500	507	101	2	20	57-140	
2-Hexanone	500	544	109	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	500	477	95	1	35	71-125	
Acetone	500	430	86	0	15	56-142	
Benzene	100	109	105	3	13	71-124	
Bromodichloromethane	100	112	112	2	15	80-122	
Bromoform	100	128	128	5	15	61-132	
Bromomethane	100	97.9	98	7	15	55-144	
Carbon disulfide	100	93.2	93	8	15	59-134	
Carbon tetrachloride	100	119	119	5	15	72-134	
Chlorobenzene	100	104	104	0	25	80-120	
Dibromochloromethane	100	126	126	5	15	75-125	F1
Chloroethane	100	156	87	6	15	69-136	
Chloroform	100	97.6	98	3	20	73-127	
Chloromethane	100	93.2	93	6	15	68-124	
cis-1,2-Dichloroethene	100	98.6	99	1	15	74-124	
cis-1,3-Dichloropropene	100	111	111	0	15	74-124	
Cyclohexane	100	111	111	6	20	59-135	
Dichlorodifluoromethane	100	111	111	8	20	59-135	
Ethylbenzene	100	102	102	1	15	77-123	
1,2-Dibromoethane	100	114	114	2	15	77-120	
Isopropylbenzene	100	95.8	96	2	20	77-122	
Methyl acetate	200	161	80	2	20	74-133	
Methyl tert-butyl ether	100	98.6	97	0	37	77-120	
Methylcyclohexane	100	112	110	6	20	68-134	
Methylene Chloride	100	95.6	90	4	15	75-124	
Styrene	100	101	101	2	20	80-120	
Tetrachloroethene	100	114	114	1	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5048.D
 Lab ID: 480-149618-8 MSD Client ID: LAB-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	100	106	103	0	15	80-122	
trans-1,2-Dichloroethene	100	102	102	4	20	73-127	
trans-1,3-Dichloropropene	100	112	112	4	15	80-120	
Trichloroethene	100	104	104	4	16	74-123	
Trichlorofluoromethane	100	100	100	8	20	62-150	
Vinyl chloride	100	105	105	5	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C4981.D Lab Sample ID: MB 480-461126/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973C Date Analyzed: 03/01/2019 12:04
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-461126/5	C4978.D	03/01/2019 10:27
ML-2I	480-149618-3	C4991.D	03/01/2019 16:39
ML-7D	480-149618-5	C4993.D	03/01/2019 17:33
GMX-MW3	480-149618-6	C4996.D	03/01/2019 18:52
DUPE	480-149618-9	C4997.D	03/01/2019 19:19

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C5007.D Lab Sample ID: MB 480-461282/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973C Date Analyzed: 03/02/2019 00:12
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-461282/5	C5003.D	03/01/2019 22:24
ML-2D	480-149618-1	C5014.D	03/02/2019 03:27
ML-2S	480-149618-2	C5015.D	03/02/2019 03:54
ML-7I	480-149618-4	C5016.D	03/02/2019 04:21
GMX-MW3 DL	480-149618-6 DL	C5017.D	03/02/2019 04:48
LAB-SBW-16	480-149618-7	C5018.D	03/02/2019 05:15
LAB-SBW-15	480-149618-8	C5019.D	03/02/2019 05:42
DUPE DL	480-149618-9 DL	C5020.D	03/02/2019 06:08
TRIP BLANK	480-149618-10	C5021.D	03/02/2019 06:35

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C5033.D Lab Sample ID: MB 480-461298/8
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973C Date Analyzed: 03/02/2019 15:51
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-461298/5	C5030.D	03/02/2019 14:19
LAB-SBW-15 MS	480-149618-8 MS	C5047.D	03/02/2019 22:23
LAB-SBW-15 MSD	480-149618-8 MSD	C5048.D	03/02/2019 22:49

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C3449.D BFB Injection Date: 01/09/2019
 Instrument ID: HP5973C BFB Injection Time: 13:33
 Analysis Batch No.: 454372

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.1	
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	86.7	
175	5.0 - 9.0 % of mass 174	6.1	(7.0) 1
176	95.0 - 101.0 % of mass 174	82.4	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-454372/4	C3451.D	01/09/2019	14:30
	IC 480-454372/5	C3452.D	01/09/2019	14:57
	IC 480-454372/6	C3453.D	01/09/2019	15:23
	IC 480-454372/7	C3454.D	01/09/2019	15:50
	IC 480-454372/8	C3455.D	01/09/2019	16:17
	ICIS 480-454372/9	C3456.D	01/09/2019	16:44
	IC 480-454372/10	C3457.D	01/09/2019	17:11
	IC 480-454372/11	C3458.D	01/09/2019	17:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C4975.D BFB Injection Date: 03/01/2019
 Instrument ID: HP5973C BFB Injection Time: 09:03
 Analysis Batch No.: 461126

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.3
75	30.0 - 60.0 % of mass 95	51.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	88.0
175	5.0 - 9.0 % of mass 174	6.2 (7.1) 1
176	95.0 - 101.0 % of mass 174	86.3 (98.0) 1
177	5.0 - 9.0 % of mass 176	5.9 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-461126/3	C4976.D	03/01/2019	09:33
	LCS 480-461126/5	C4978.D	03/01/2019	10:27
	MB 480-461126/9	C4981.D	03/01/2019	12:04
ML-2I	480-149618-3	C4991.D	03/01/2019	16:39
ML-7D	480-149618-5	C4993.D	03/01/2019	17:33
GMX-MW3	480-149618-6	C4996.D	03/01/2019	18:52
DUPE	480-149618-9	C4997.D	03/01/2019	19:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C5000.D BFB Injection Date: 03/01/2019
 Instrument ID: HP5973C BFB Injection Time: 20:47
 Analysis Batch No.: 461282

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.9
75	30.0 - 60.0 % of mass 95	50.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	88.9
175	5.0 - 9.0 % of mass 174	6.8 (7.6) 1
176	95.0 - 101.0 % of mass 174	85.7 (96.4) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-461282/3	C5001.D	03/01/2019	21:21
	LCS 480-461282/5	C5003.D	03/01/2019	22:24
	MB 480-461282/9	C5007.D	03/02/2019	00:12
ML-2D	480-149618-1	C5014.D	03/02/2019	03:27
ML-2S	480-149618-2	C5015.D	03/02/2019	03:54
ML-7I	480-149618-4	C5016.D	03/02/2019	04:21
GMX-MW3 DL	480-149618-6 DL	C5017.D	03/02/2019	04:48
LAB-SBW-16	480-149618-7	C5018.D	03/02/2019	05:15
LAB-SBW-15	480-149618-8	C5019.D	03/02/2019	05:42
DUPE DL	480-149618-9 DL	C5020.D	03/02/2019	06:08
TRIP BLANK	480-149618-10	C5021.D	03/02/2019	06:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C5026.D BFB Injection Date: 03/02/2019
 Instrument ID: HP5973C BFB Injection Time: 12:06
 Analysis Batch No.: 461298

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	
75	30.0 - 60.0 % of mass 95	51.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	90.8	
175	5.0 - 9.0 % of mass 174	6.1	(6.7) 1
176	95.0 - 101.0 % of mass 174	89.0	(98.1) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-461298/9	C5029.D	03/02/2019	13:43
	LCS 480-461298/5	C5030.D	03/02/2019	14:19
	MB 480-461298/8	C5033.D	03/02/2019	15:51
LAB-SBW-15 MS	480-149618-8 MS	C5047.D	03/02/2019	22:23
LAB-SBW-15 MSD	480-149618-8 MSD	C5048.D	03/02/2019	22:49

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: ICIS 480-454372/9 Date Analyzed: 01/09/2019 16:44
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): C3456.D Heated Purge: (Y/N) N
 Calibration ID: 35737

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	196239	4.95	379825	7.26	384966	9.13
UPPER LIMIT	392478	5.45	759650	7.76	769932	9.63
LOWER LIMIT	98120	4.45	189913	6.76	192483	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-461126/3	217892	4.95	462467	7.25	492691	9.13
CCVIS 480-461282/3	214275	4.95	454604	7.26	482457	9.13
CCVIS 480-461298/9	214301	4.95	446331	7.25	470559	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: CCVIS 480-461126/3 Date Analyzed: 03/01/2019 09:33
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): C4976.D Heated Purge: (Y/N) N
 Calibration ID: 35740

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	217892	4.95	462467	7.25	492691	9.13	
UPPER LIMIT	435784	5.45	924934	7.75	985382	9.63	
LOWER LIMIT	108946	4.45	231234	6.75	246346	8.63	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-461126/5	217779	4.95	469084	7.26	495169	9.13	
MB 480-461126/9	210381	4.95	472920	7.25	505325	9.13	
480-149618-3	ML-2I	202552	4.95	440285	7.26	485969	9.13
480-149618-5	ML-7D	211390	4.95	428618	7.25	477629	9.13
480-149618-6	GMX-MW3	205778	4.95	448316	7.26	497644	9.13
480-149618-9	DUPE	205999	4.95	439100	7.26	483069	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: CCVIS 480-461282/3 Date Analyzed: 03/01/2019 21:21
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): C5001.D Heated Purge: (Y/N) N
 Calibration ID: 35740

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	214275	4.95	454604	7.26	482457	9.13	
UPPER LIMIT	428550	5.45	909208	7.76	964914	9.63	
LOWER LIMIT	107138	4.45	227302	6.76	241229	8.63	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-461282/5	213813	4.95	464764	7.25	487313	9.13	
MB 480-461282/9	218245	4.95	470198	7.26	508598	9.13	
480-149618-1	ML-2D	207014	4.95	461985	7.26	492972	9.13
480-149618-2	ML-2S	206178	4.95	454453	7.25	489239	9.13
480-149618-4	ML-7I	205558	4.95	443819	7.26	479677	9.13
480-149618-6 DL	GMX-MW3 DL	209568	4.95	428382	7.25	490665	9.13
480-149618-7	LAB-SBW-16	199132	4.95	437444	7.25	486963	9.13
480-149618-8	LAB-SBW-15	201412	4.95	435677	7.25	494261	9.13
480-149618-9 DL	DUPE DL	203542	4.95	439725	7.26	482661	9.13
480-149618-10	TRIP BLANK	207791	4.95	443795	7.26	477576	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: CCVIS 480-461298/9 Date Analyzed: 03/02/2019 13:43
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): C5029.D Heated Purge: (Y/N) N
 Calibration ID: 35740

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	214301	4.95	446331	7.25	470559	9.13	
UPPER LIMIT	428602	5.45	892662	7.75	941118	9.63	
LOWER LIMIT	107151	4.45	223166	6.75	235280	8.63	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-461298/5	205771	4.95	459567	7.26	479535	9.13	
MB 480-461298/8	204688	4.95	451459	7.26	489117	9.13	
480-149618-8 MS	LAB-SBW-15 MS	202203	4.95	433432	7.25	475557	9.13
480-149618-8 MSD	LAB-SBW-15 MSD	207304	4.95	431341	7.25	473907	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-149618-1
 Matrix: Water Lab File ID: C5014.D
 Analysis Method: 8260C Date Collected: 02/27/2019 13:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 03:27
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3.8		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	J	2.0	0.62
75-34-3	1,1-Dichloroethane	55		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND	*	20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	8.7	J	20	6.0
71-43-2	Benzene	5.5		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND	*	2.0	0.64
75-00-3	Chloroethane	39		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	2.6		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-149618-1
 Matrix: Water Lab File ID: C5014.D
 Analysis Method: 8260C Date Collected: 02/27/2019 13:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 03:27
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	2.1		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.0		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	2.0		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	2.1		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	1.0	J	2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	3.3		2.0	1.8
1330-20-7	Xylenes, Total	3.0	J	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-149618-1
 Matrix: Water Lab File ID: C5014.D
 Analysis Method: 8260C Date Collected: 02/27/2019 13:35
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 03:27
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 5.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.39	5.9	T J N	91%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D
 Lims ID: 480-149618-B-1
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 02-Mar-2019 03:27:30 ALS Bottle#: 15 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-149618-B-1
 Misc. Info.: 480-0079070-018
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 10:37:06 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 10:37:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	207014	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	85	461985	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.129	-0.001	95	492972	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.476	-0.001	94	310866	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	-0.001	96	183560	25.3	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	93	1131530	23.8	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	95	393915	27.0	
10 Dichlorodifluoromethane	85		1.190				ND	U
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.449	1.439	-0.001	97	23385	1.63	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.822	1.823	-0.011	99	178475	19.7	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.538	-0.011	86	6411	0.6539	
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43	2.672	2.672	0.010	97	23616	4.35	
26 Carbon disulfide	76	2.745	2.745	0.010	73	3237	0.0920	a
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	97	13605	0.99	
32 Methyl tert-butyl ether	73	3.221	3.222	-0.001	99	39604	1.06	
34 trans-1,2-Dichloroethene	96	3.232	3.232	-0.010	95	13781	1.06	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	640930	27.4	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	79	20005	1.29	
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83	4.341	4.351	-0.010	34	2324	0.0986	
51 1,1,1-Trichloroethane	97	4.444	4.444	0.000	96	34952	1.90	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78	4.735	4.735	-0.001	59	132709	2.74	
58 1,2-Dichloroethane	62	4.786	4.786	0.000	55	2072	0.1017	a
62 Trichloroethene	95	5.222	5.222	0.000	47	6523	0.5066	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	82	1762	0.1025	a
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	97	9250	0.5321	7a
74 Toluene	92	6.175	6.186	0.000	96	33360	1.02	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.590				ND	
80 2-Hexanone	43	6.703	6.694	-0.001	27	2416	0.2213	
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112		7.284				ND	Ua
88 Ethylbenzene	91	7.346	7.346	0.010	98	34865	0.5578	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	96	37215	1.48	
91 o-Xylene	106	7.750	7.752	0.000	95	10220	0.3842	
92 Styrene	104		7.771				ND	Ua
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	94	42523	0.6305	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	Ua
113 1,4-Dichlorobenzene	146		9.149				ND	Ua
116 1,2-Dichlorobenzene	146		9.460				ND	Ua
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	MUa
S 124 Xylenes, Total	1				0		1.86	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D
 Lims ID: 480-149618-B-1
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 02-Mar-2019 03:27:30 ALS Bottle#: 15 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-149618-B-1
 Misc. Info.: 480-0079070-018
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 10:37:06 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315
 First Level Reviewer: izquierdo Date: 02-Mar-2019 10:37:06

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.392	275605	2.96	153	91	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.952	2325111	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Worklist Smp#: 18

Client ID: ML-2D

Purge Vol: 5.000 mL

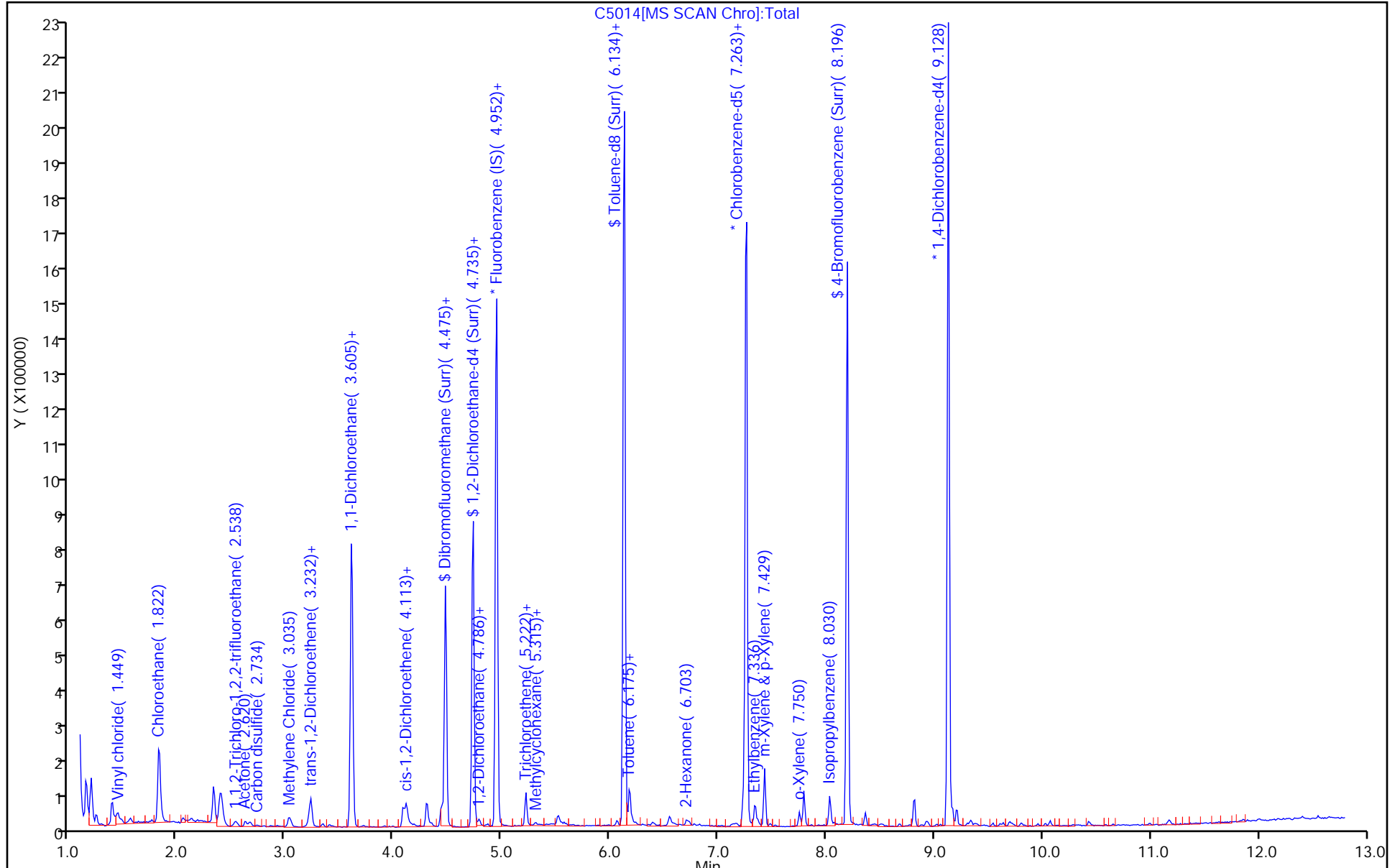
Dil. Factor: 2.0000

ALS Bottle#: 15

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

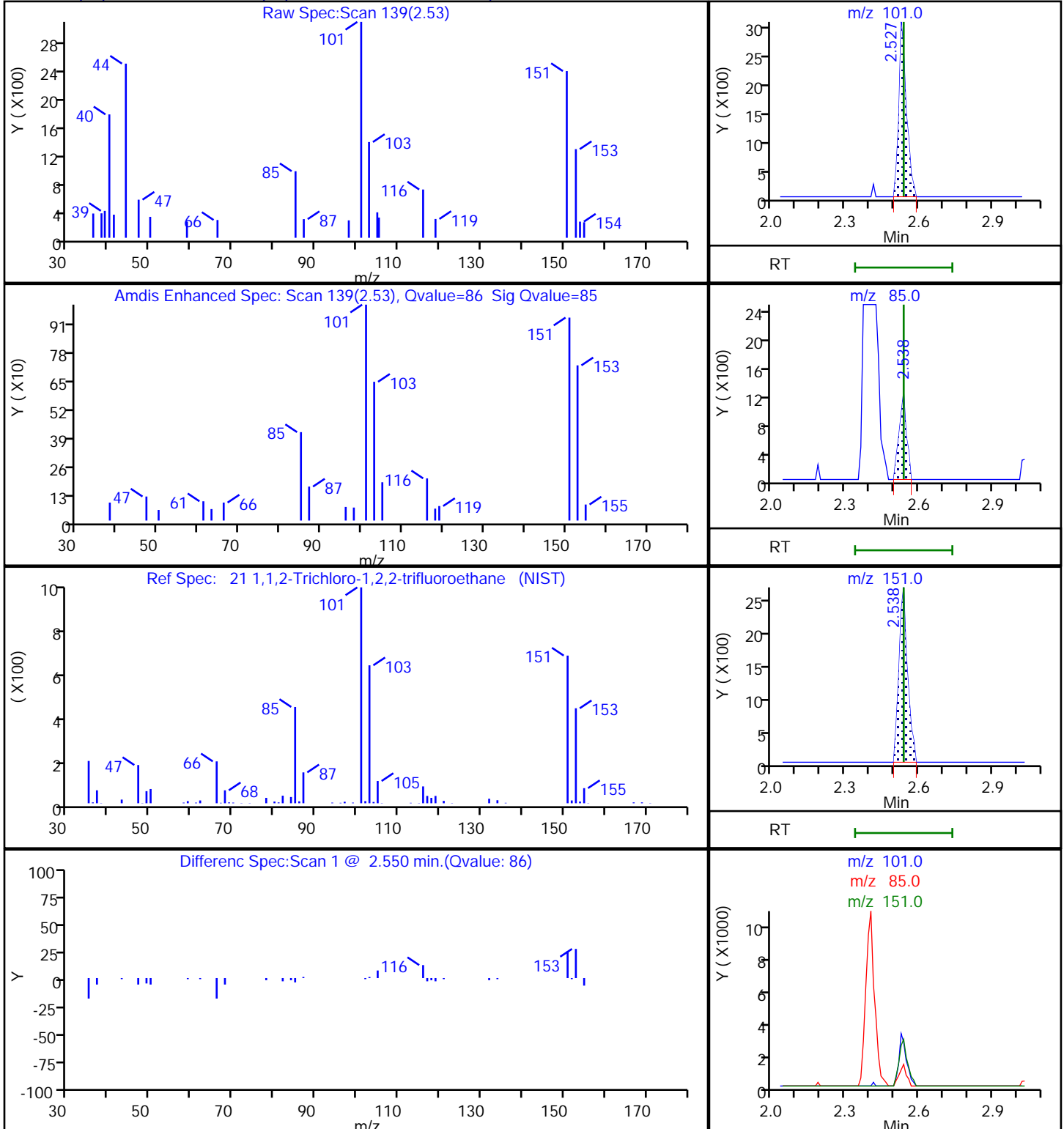
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

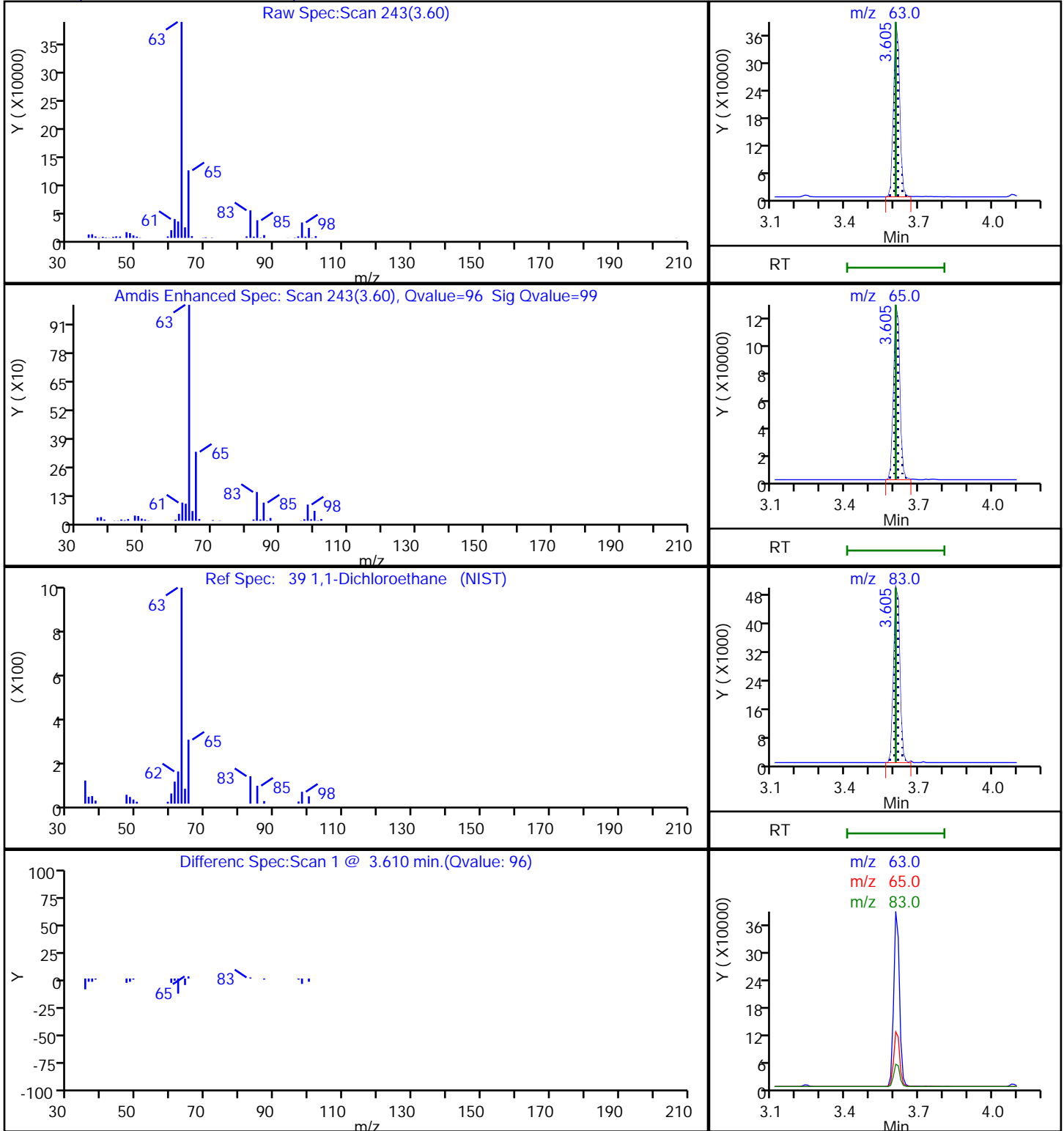
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

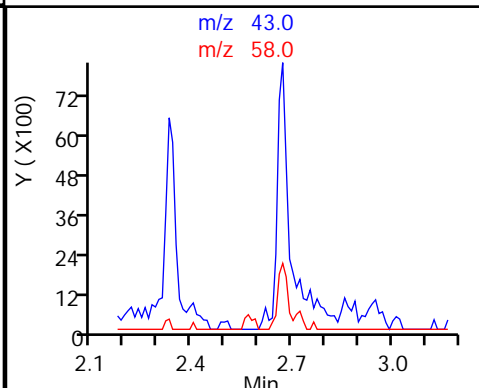
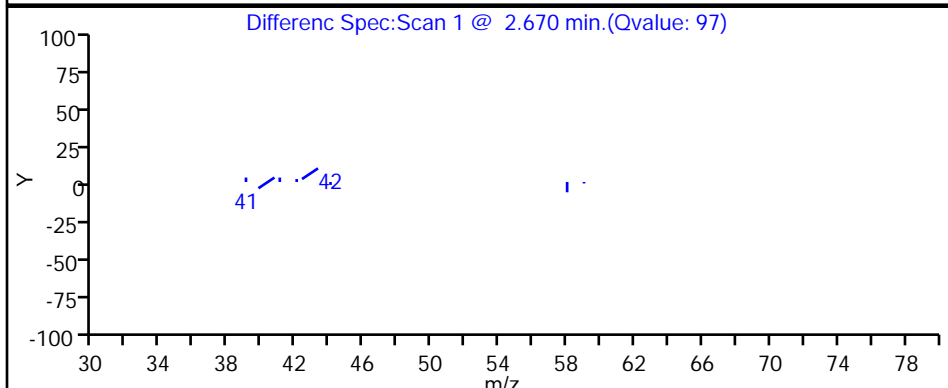
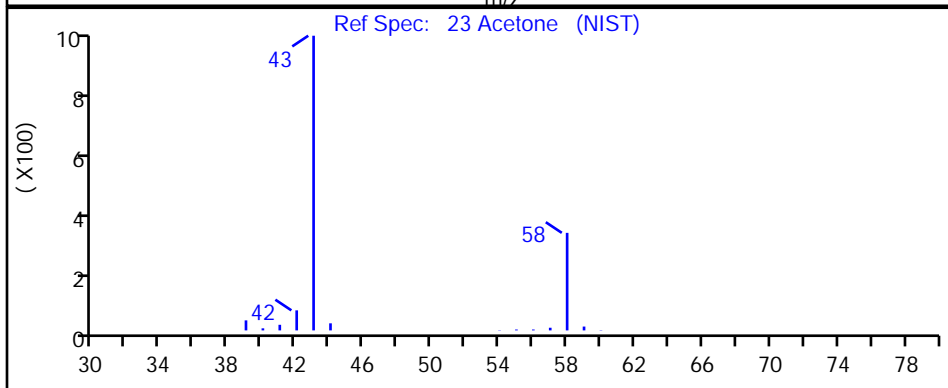
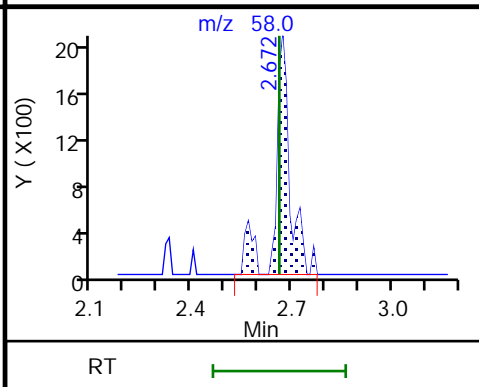
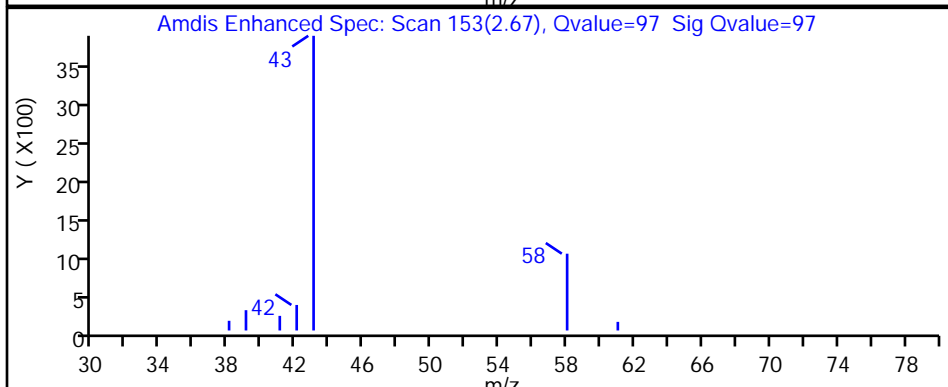
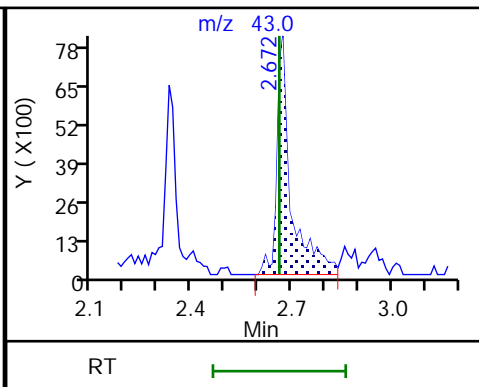
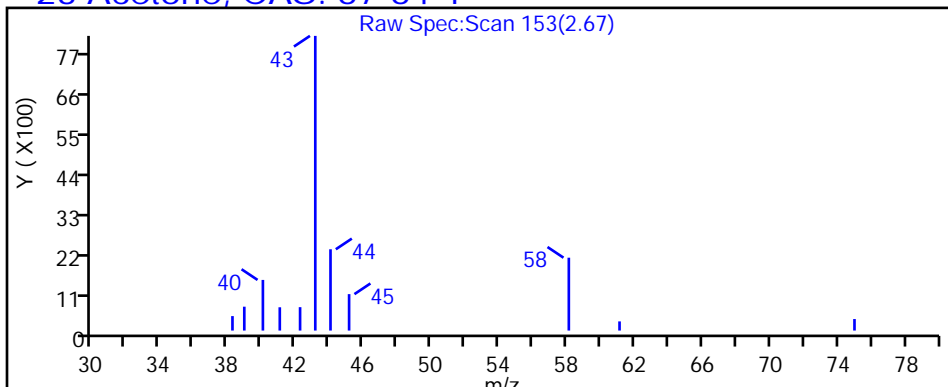
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

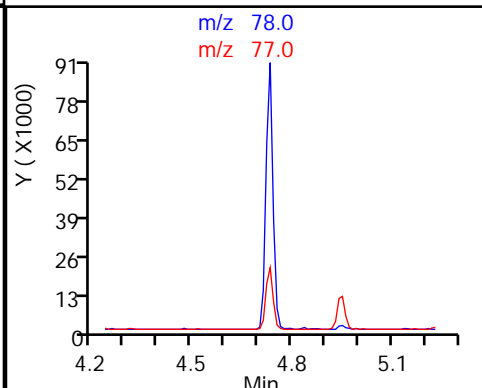
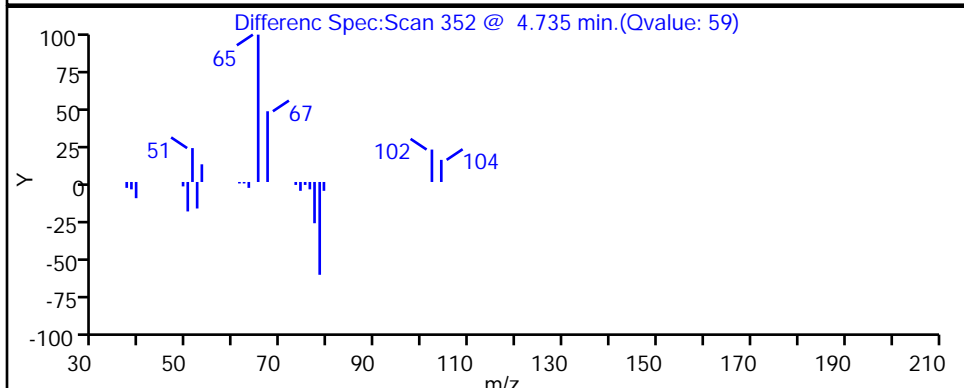
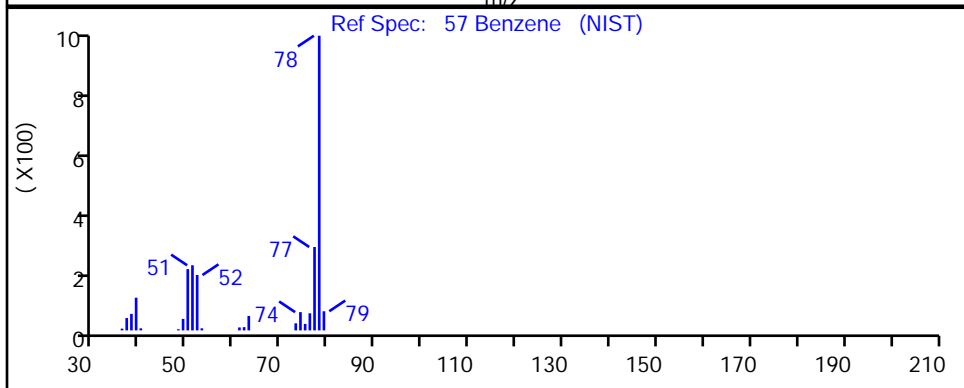
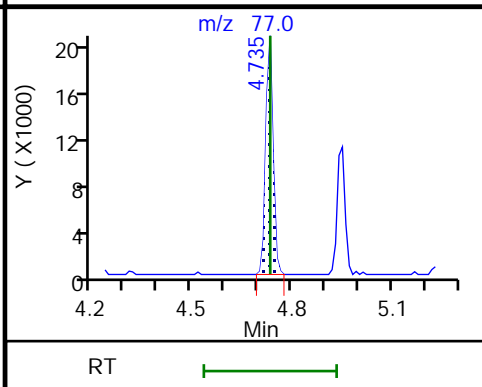
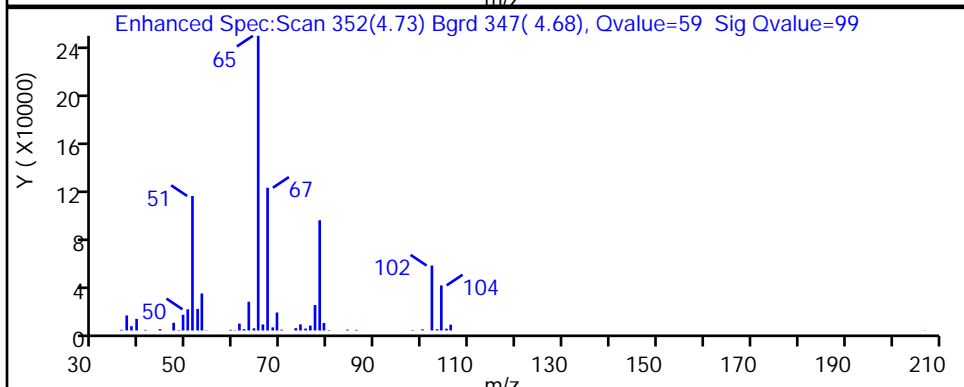
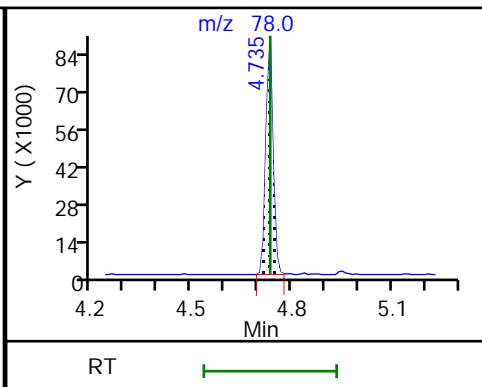
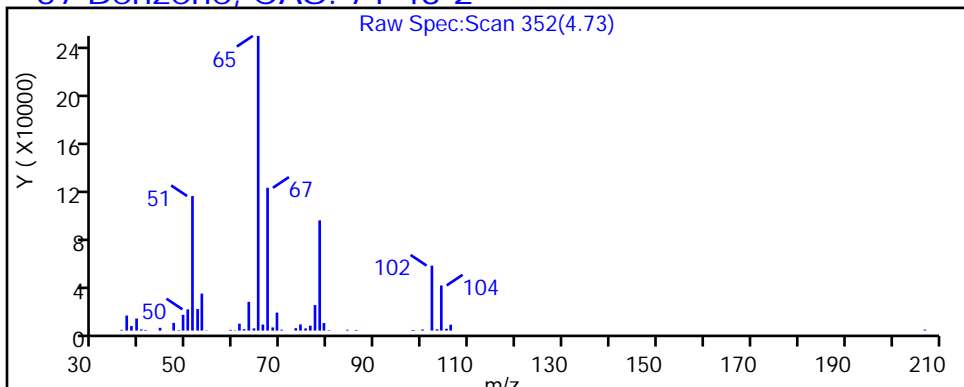
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

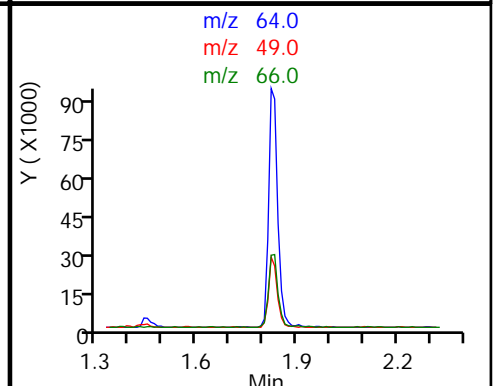
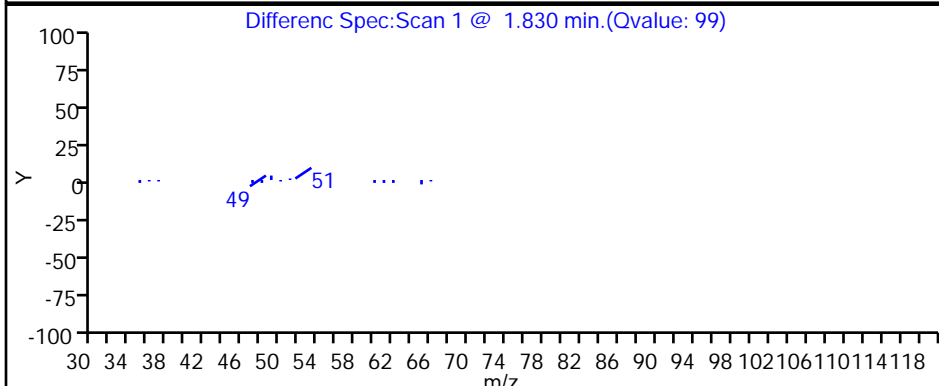
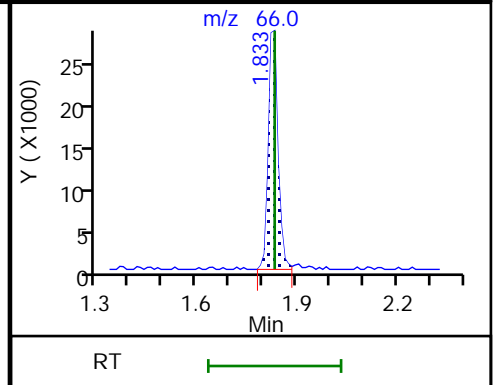
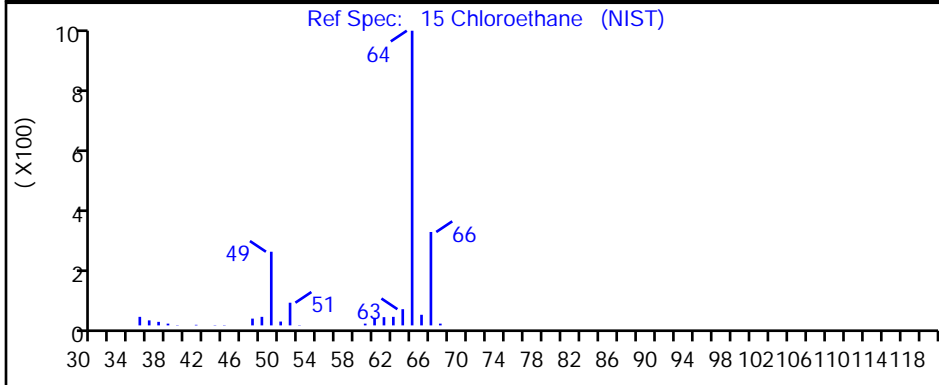
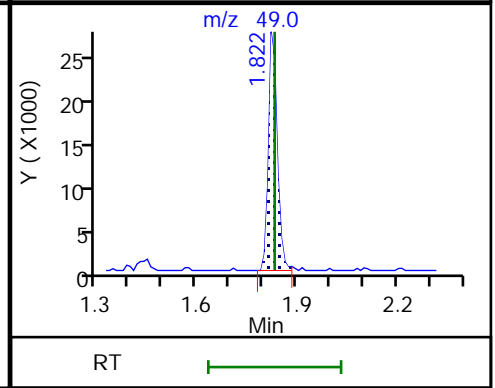
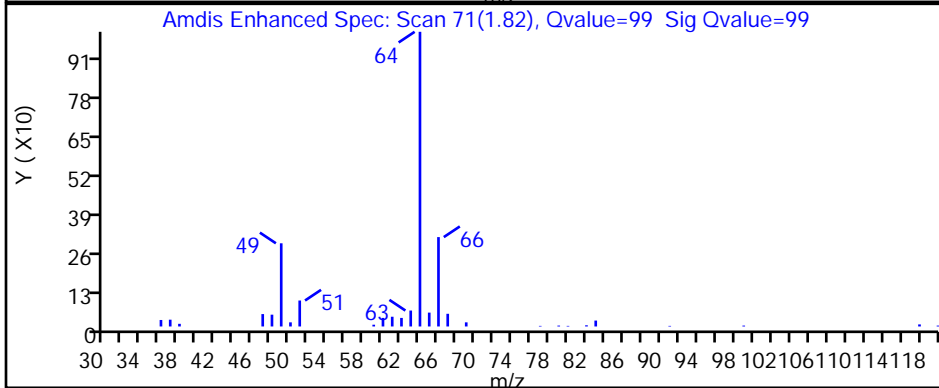
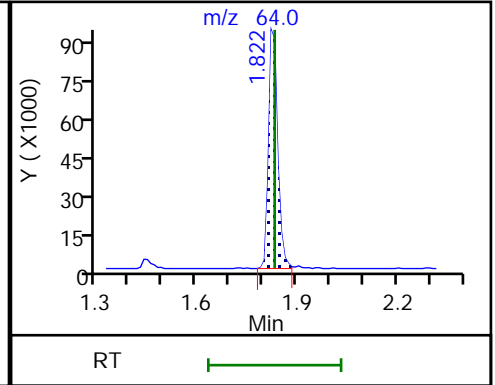
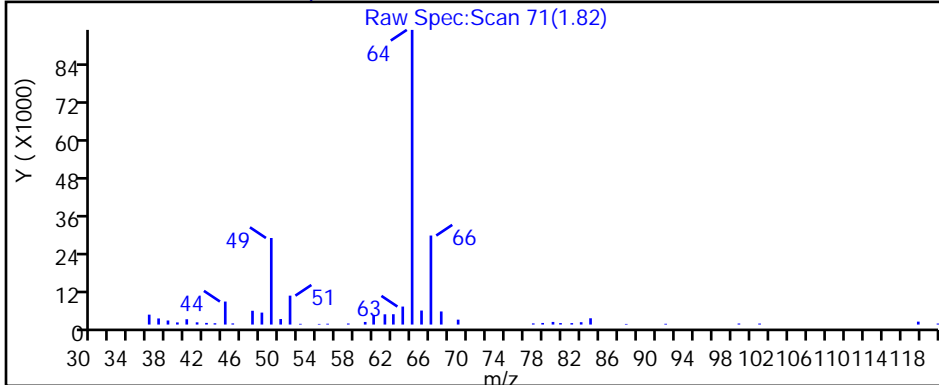
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

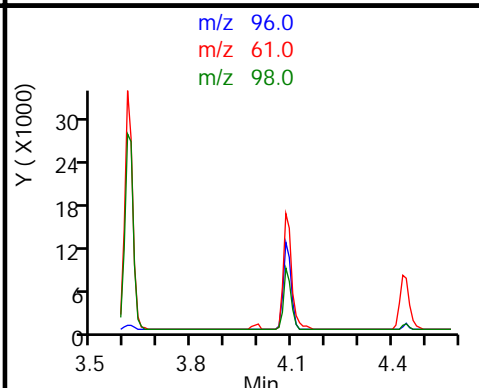
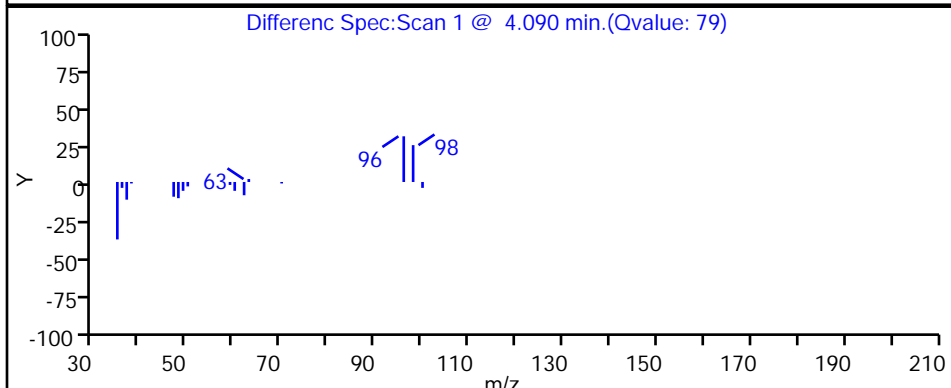
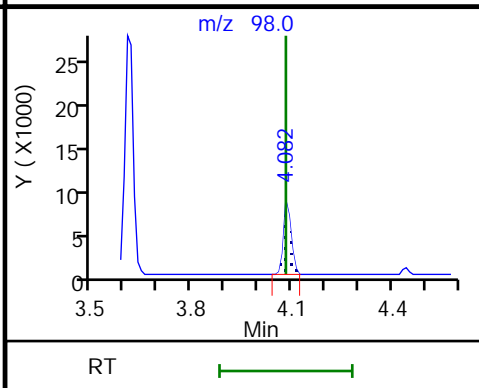
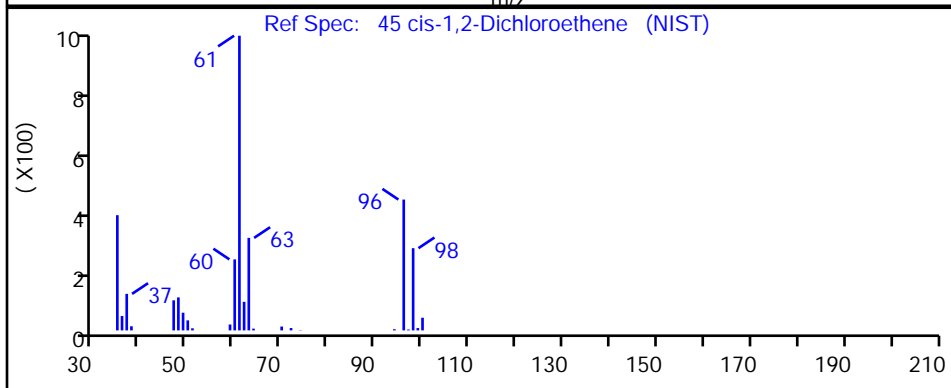
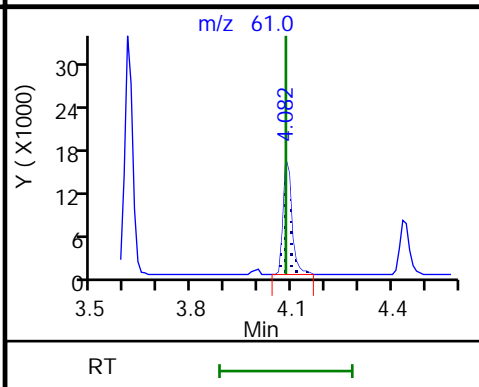
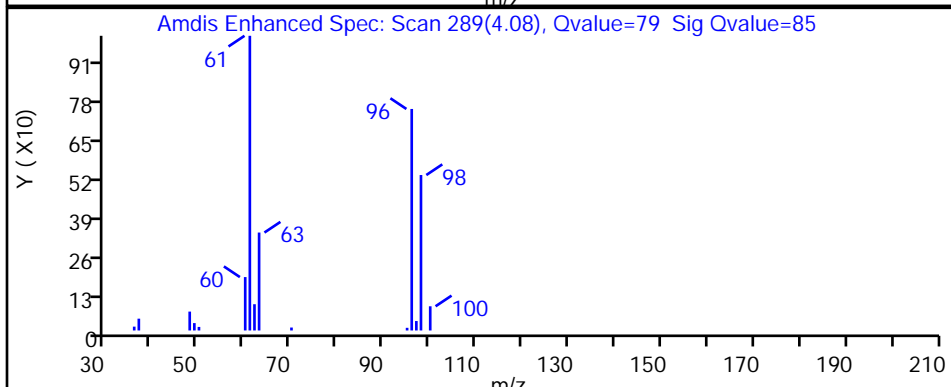
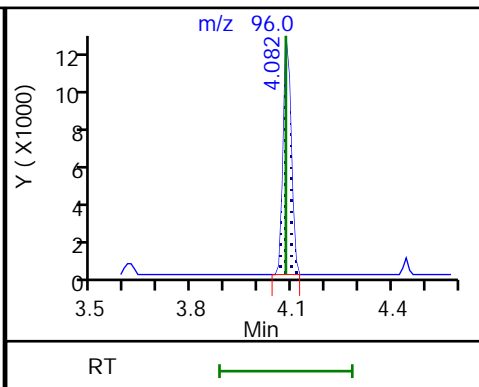
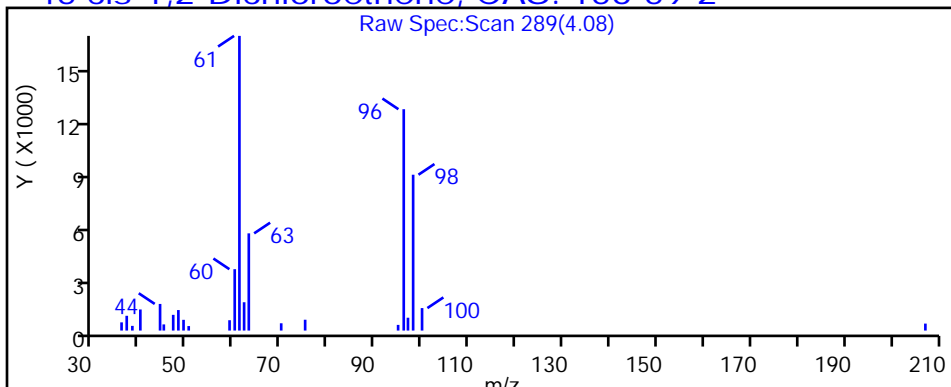
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

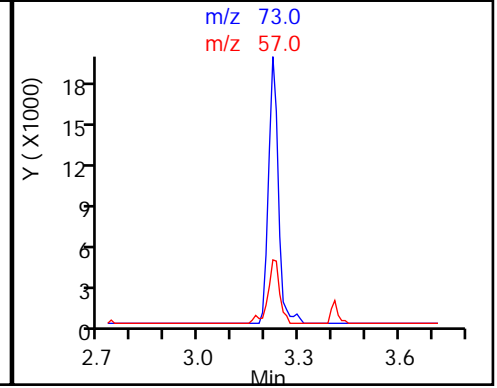
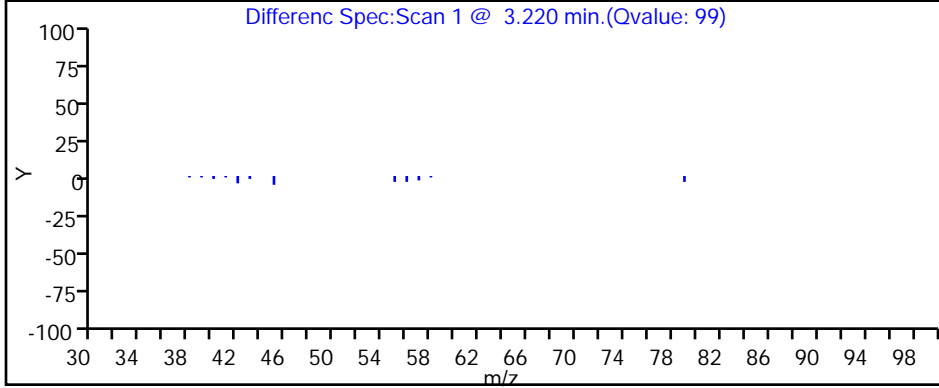
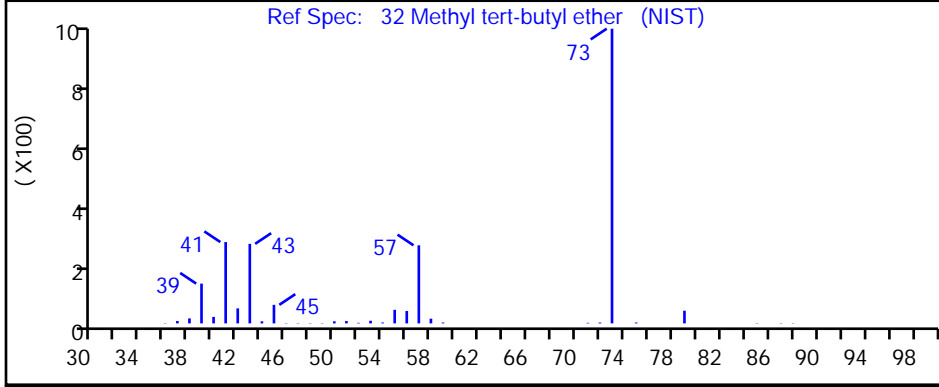
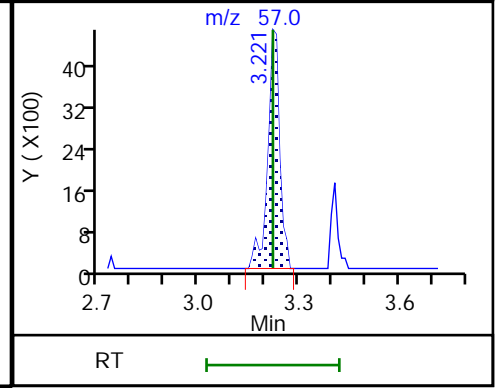
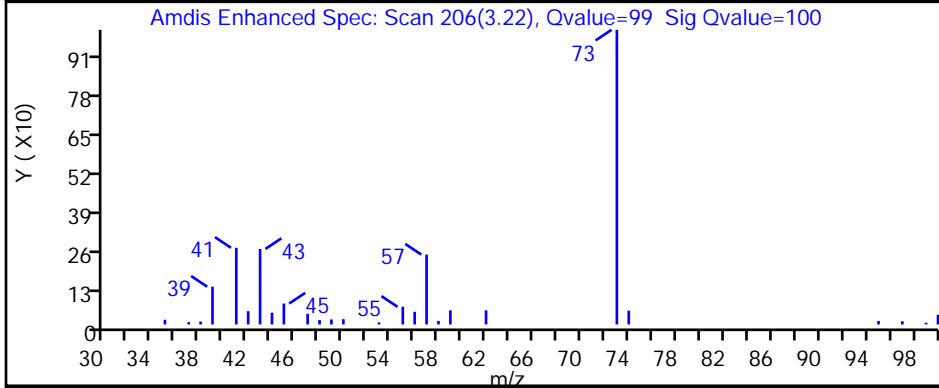
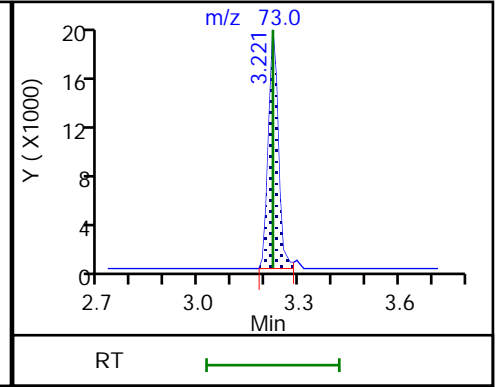
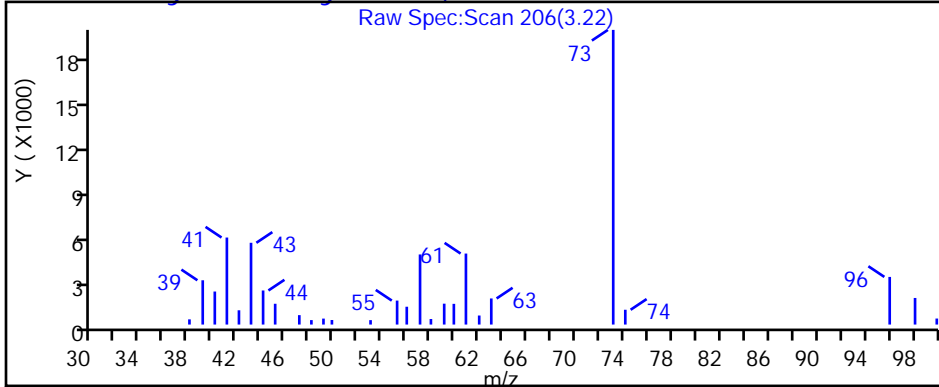
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

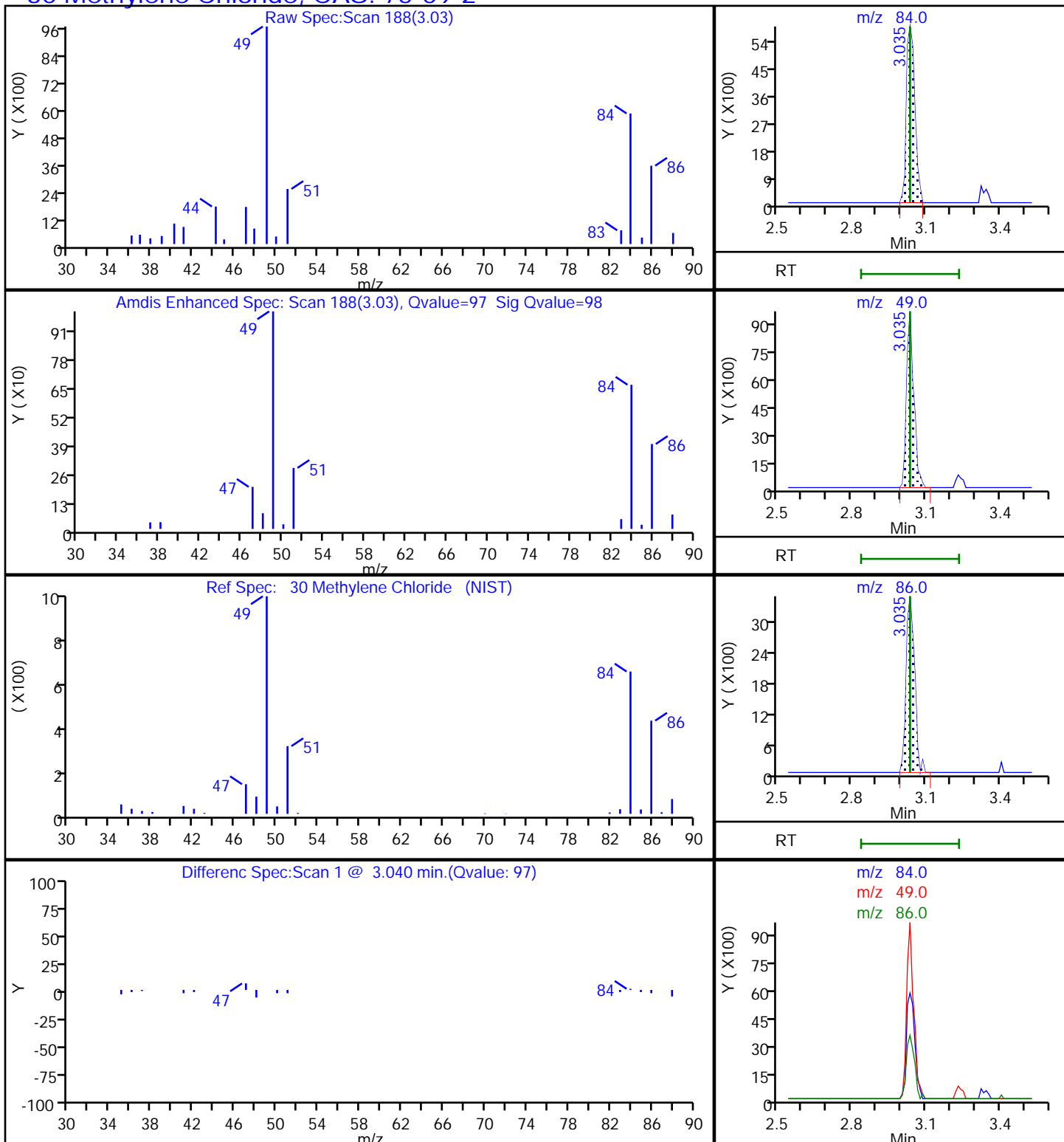
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

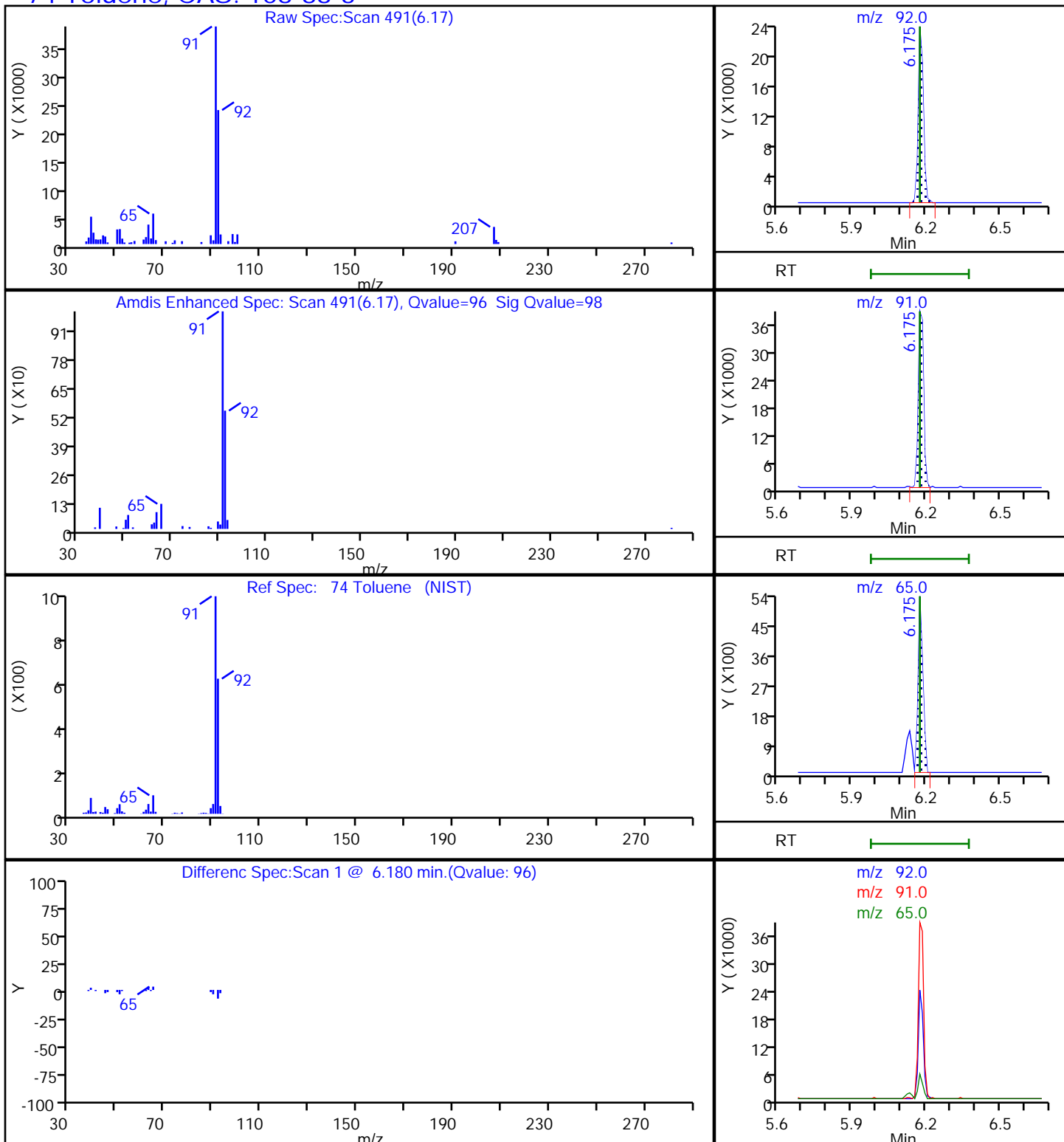
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

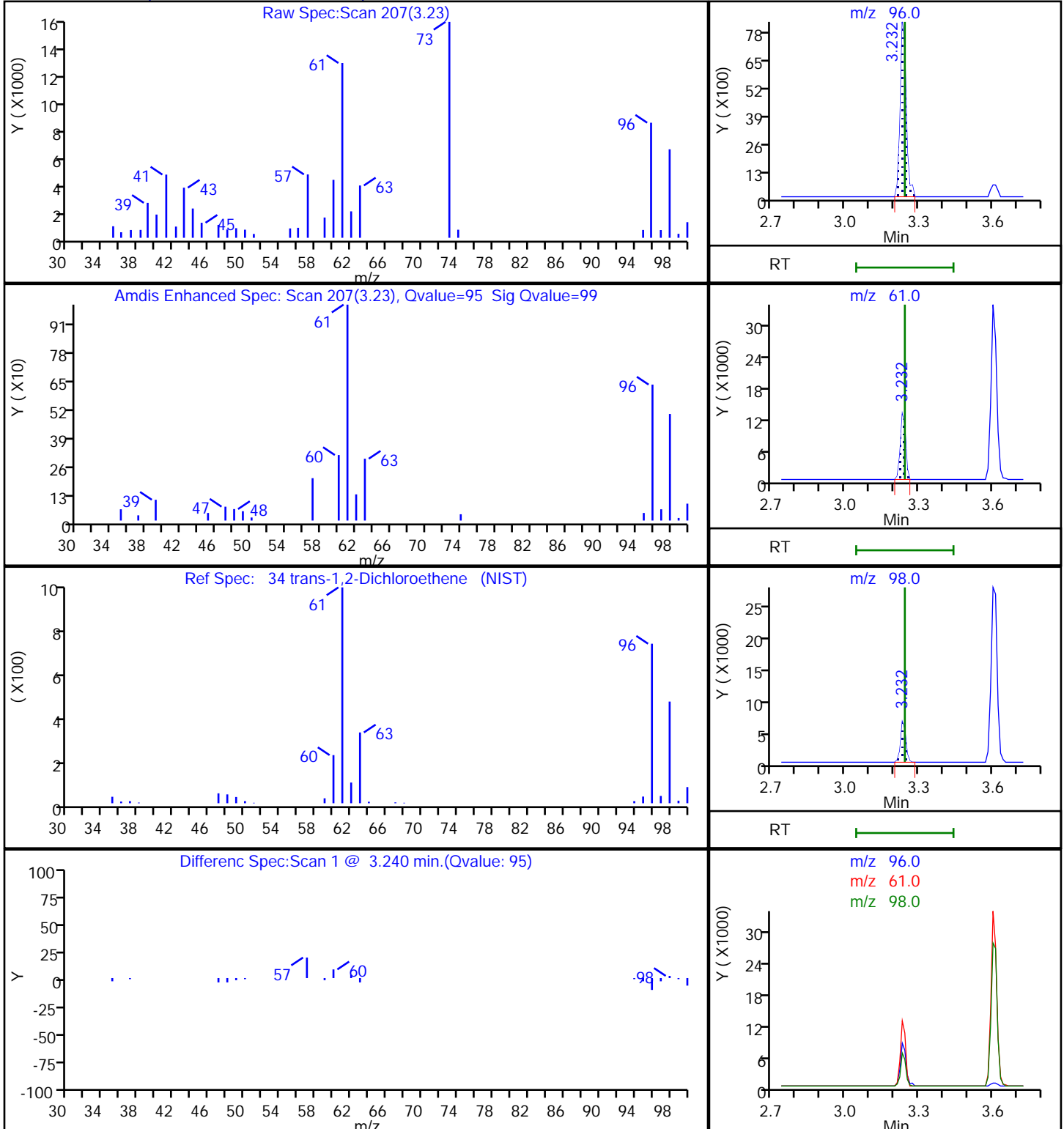
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

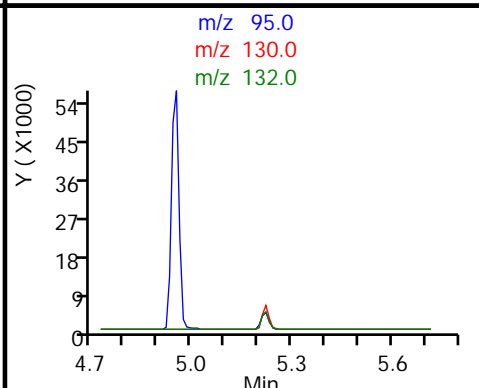
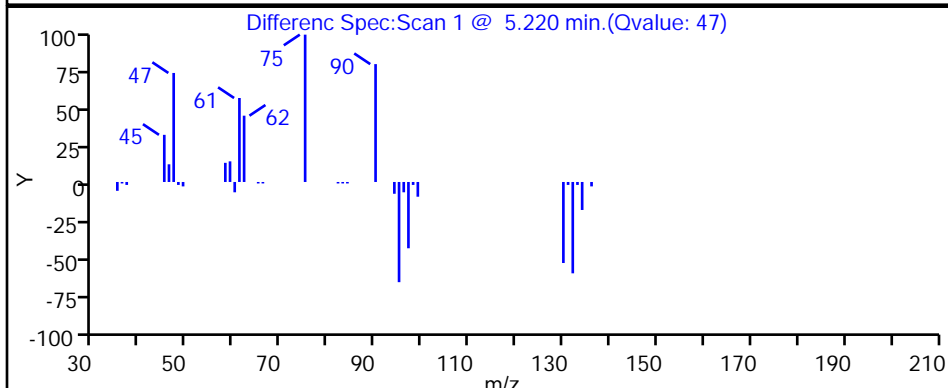
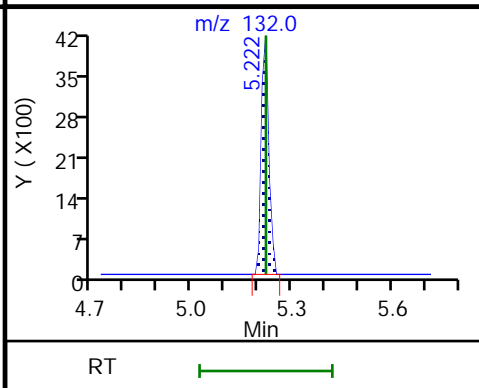
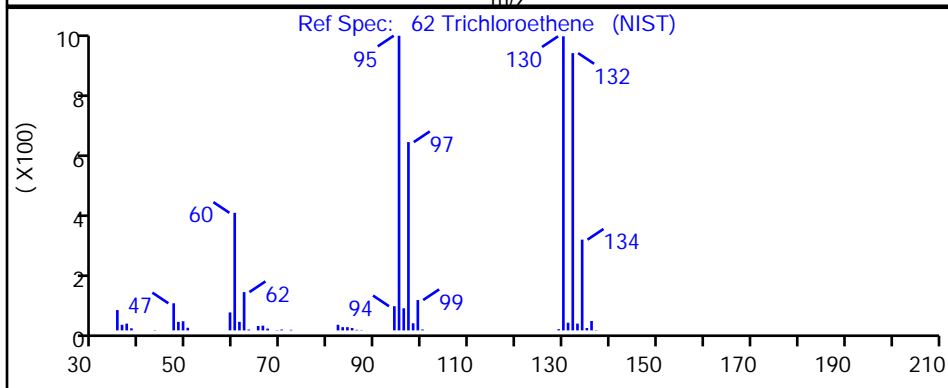
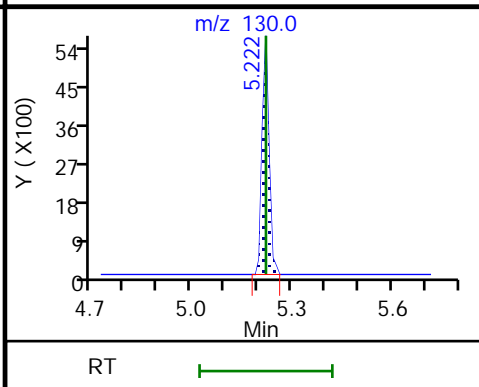
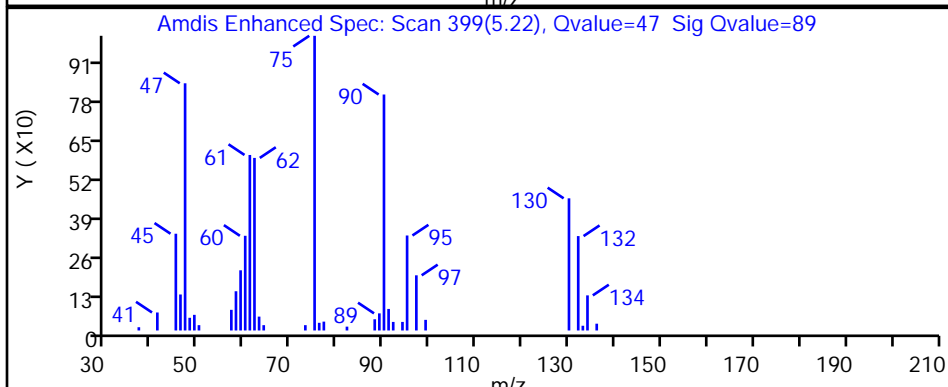
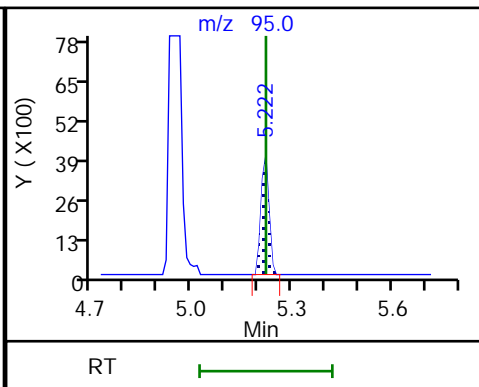
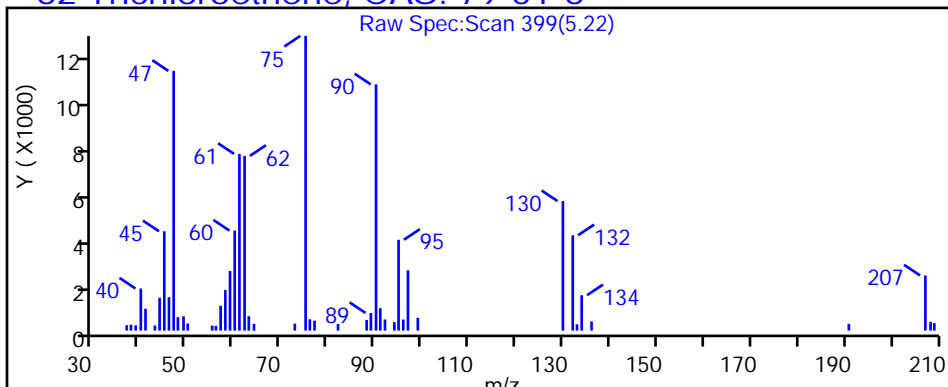
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

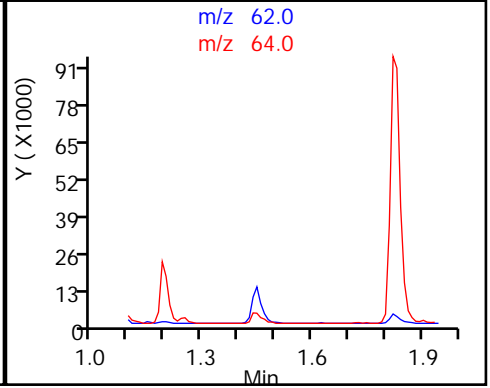
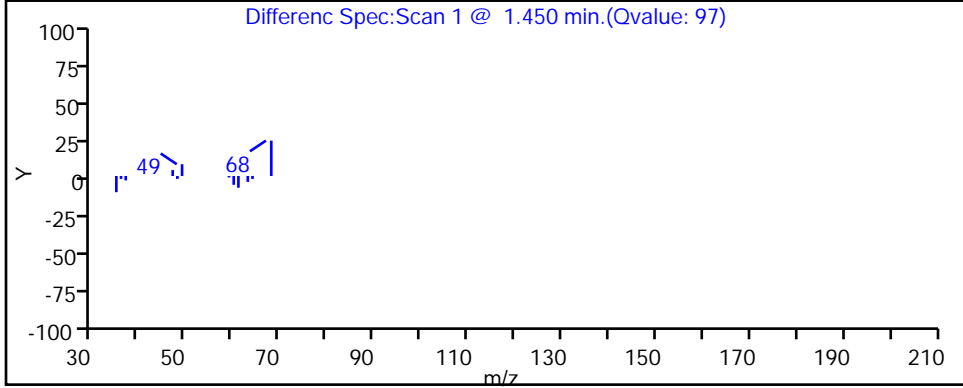
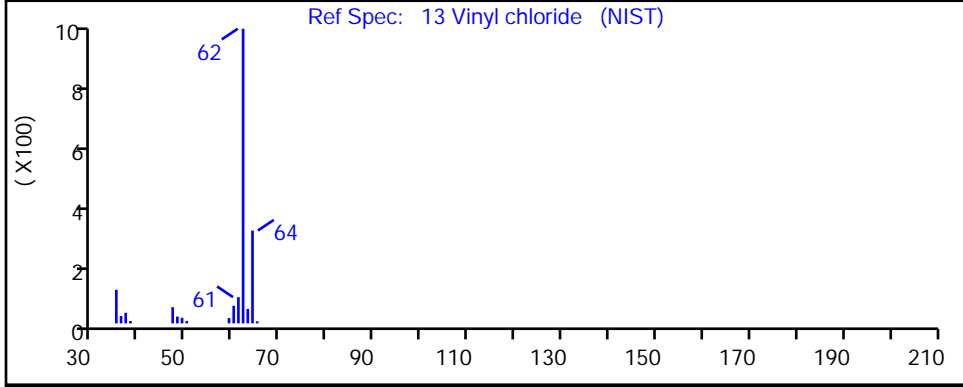
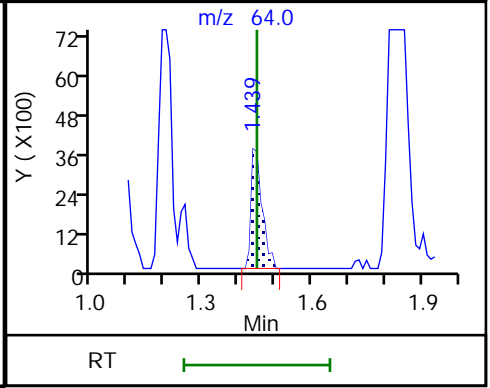
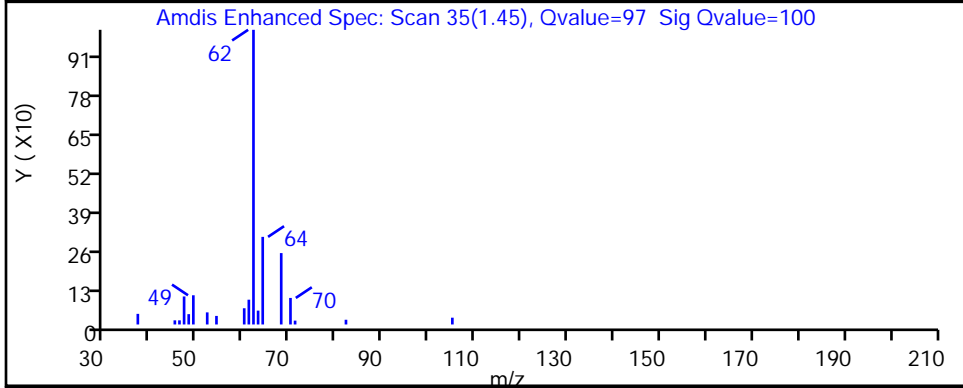
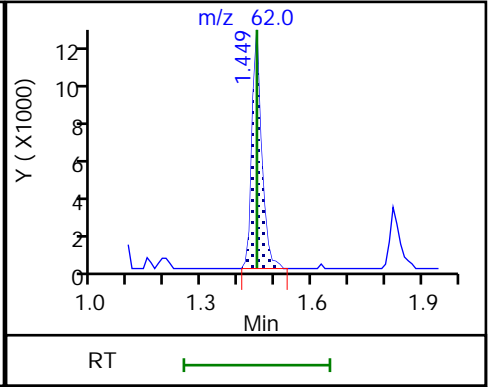
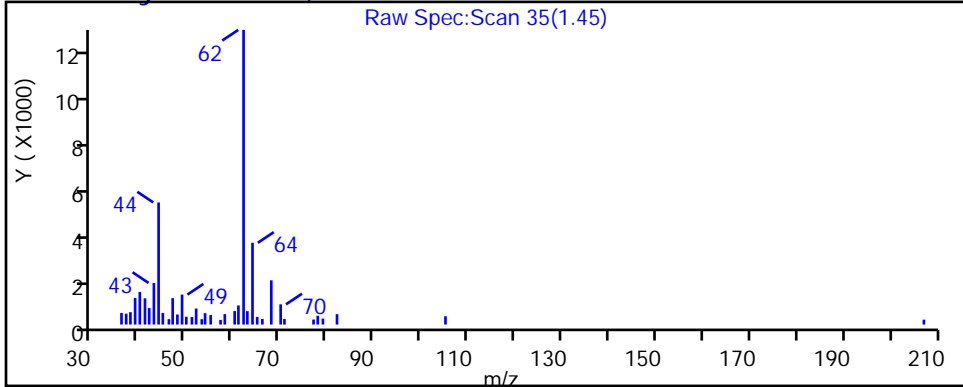
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

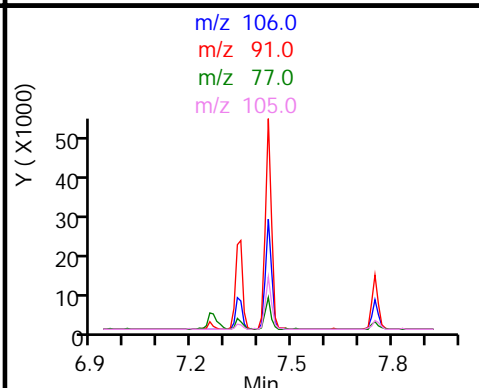
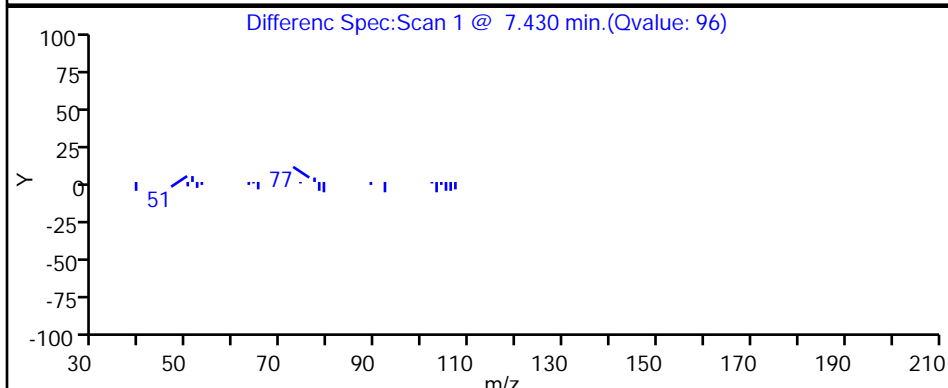
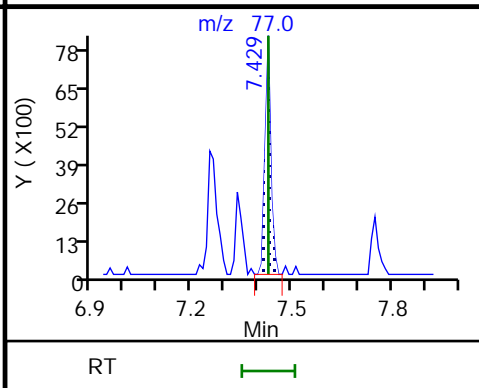
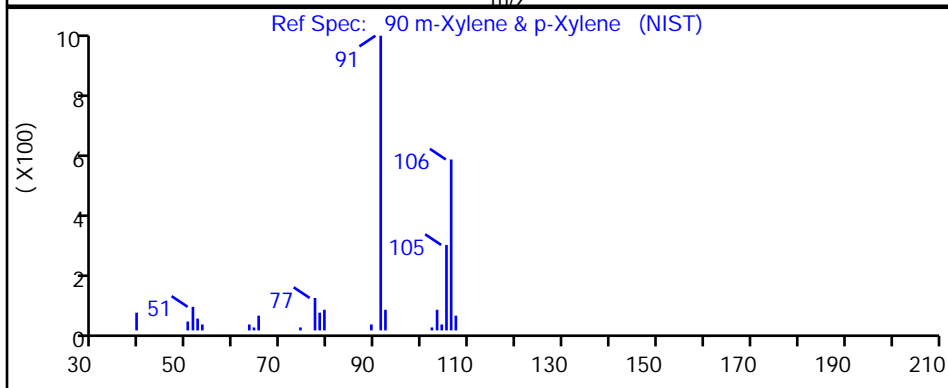
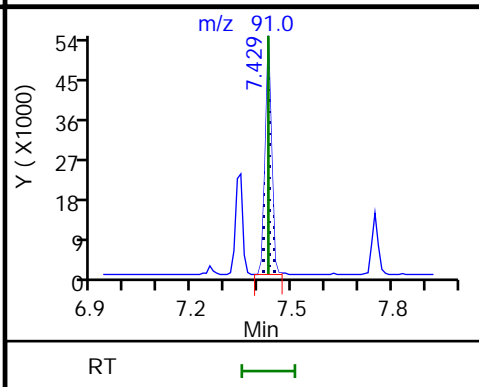
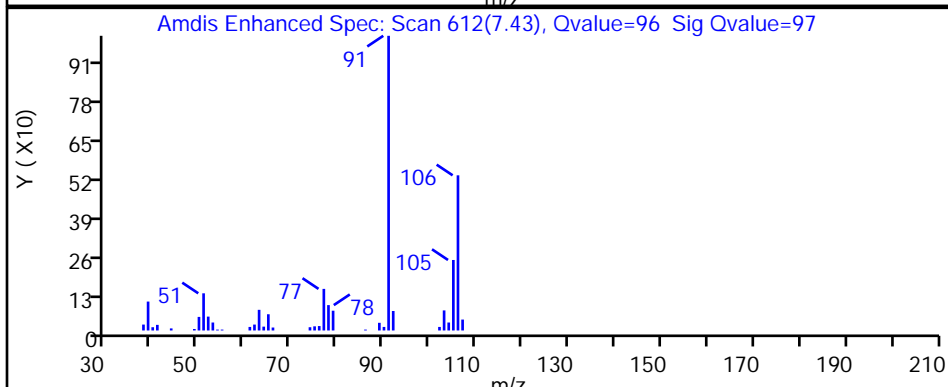
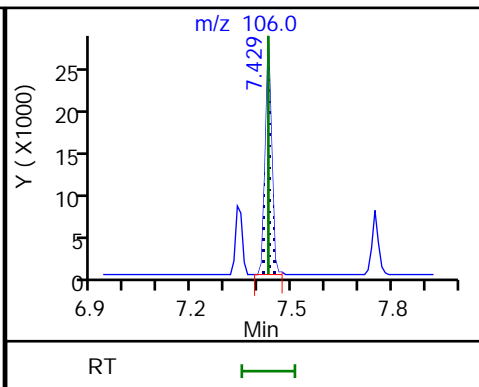
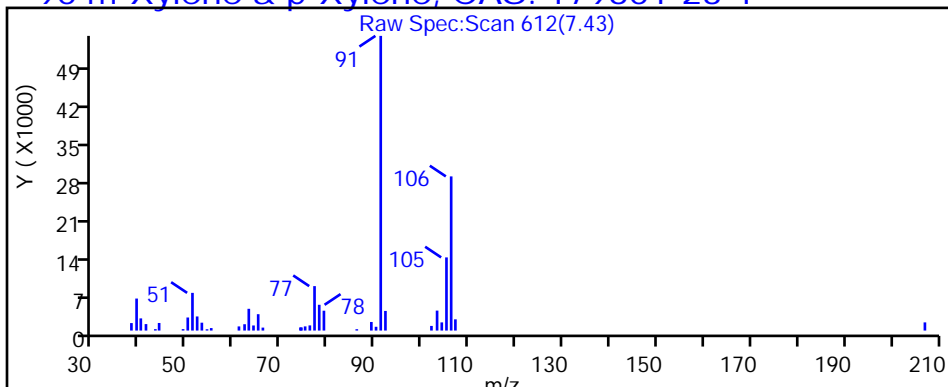
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

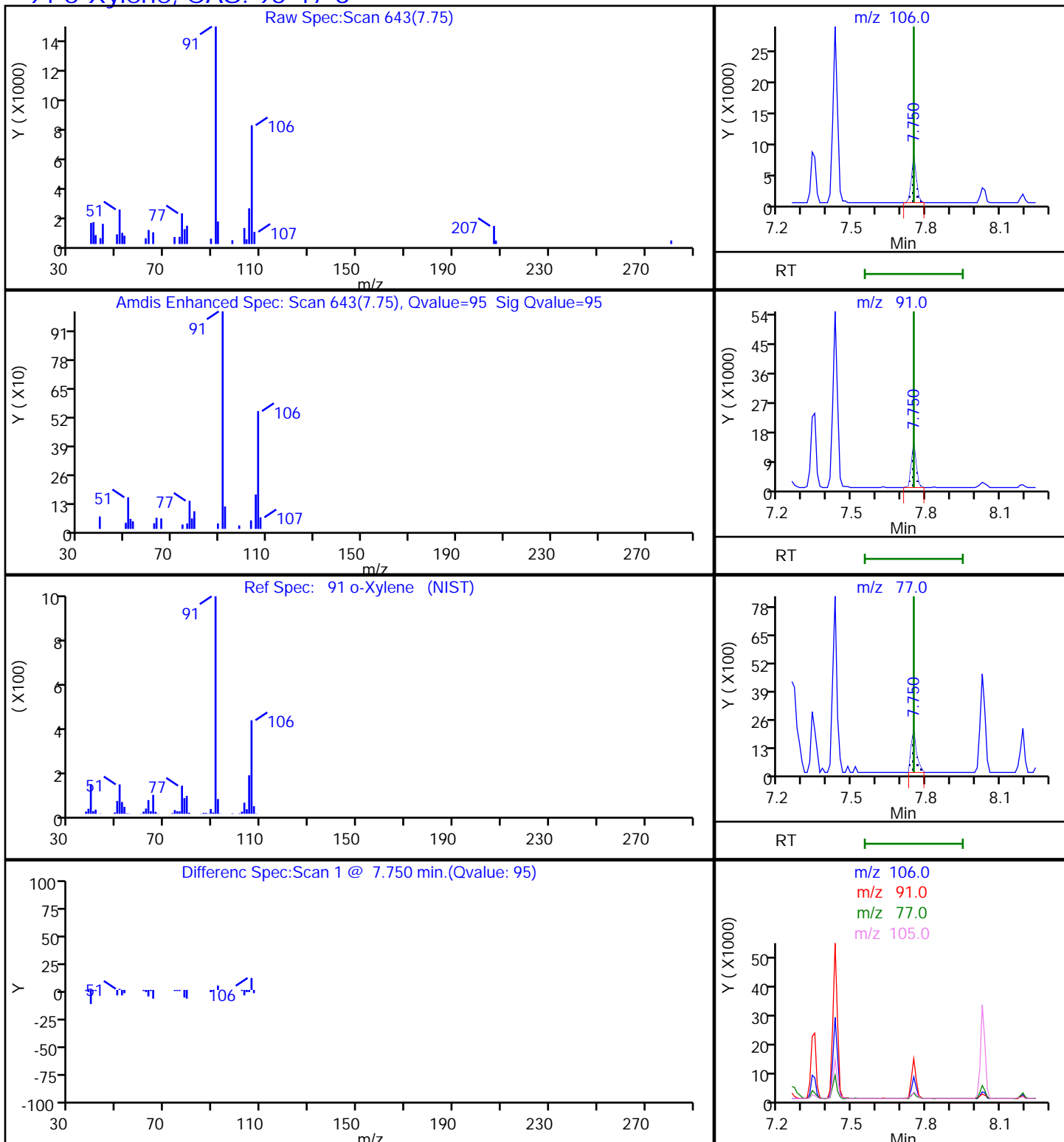
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

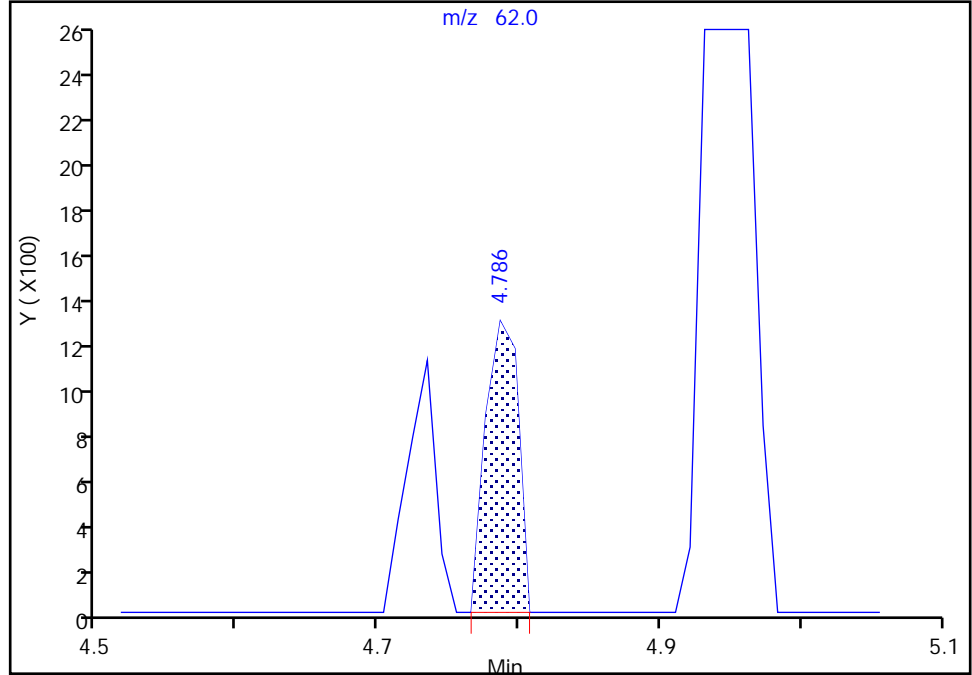
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D
Injection Date: 02-Mar-2019 03:27:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-1 Lab Sample ID: 480-149618-1
Client ID: ML-2D
Operator ID: NC ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

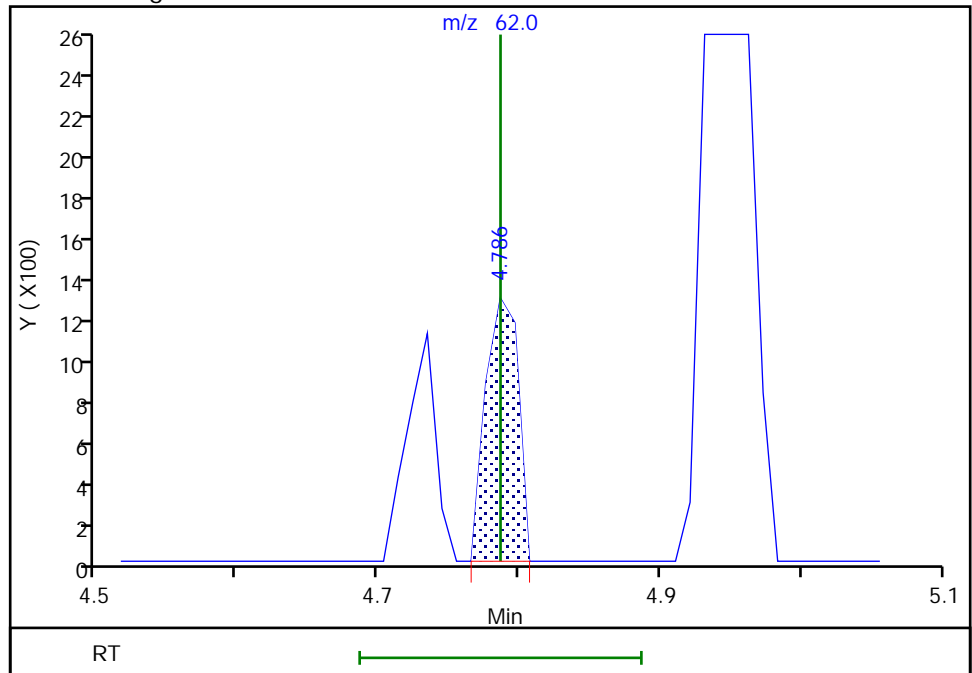
RT: 4.79
Area: 2072
Amount: 0.101711
Amount Units: ug/L

Processing Integration Results



RT: 4.79
Area: 2072
Amount: 0.101711
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

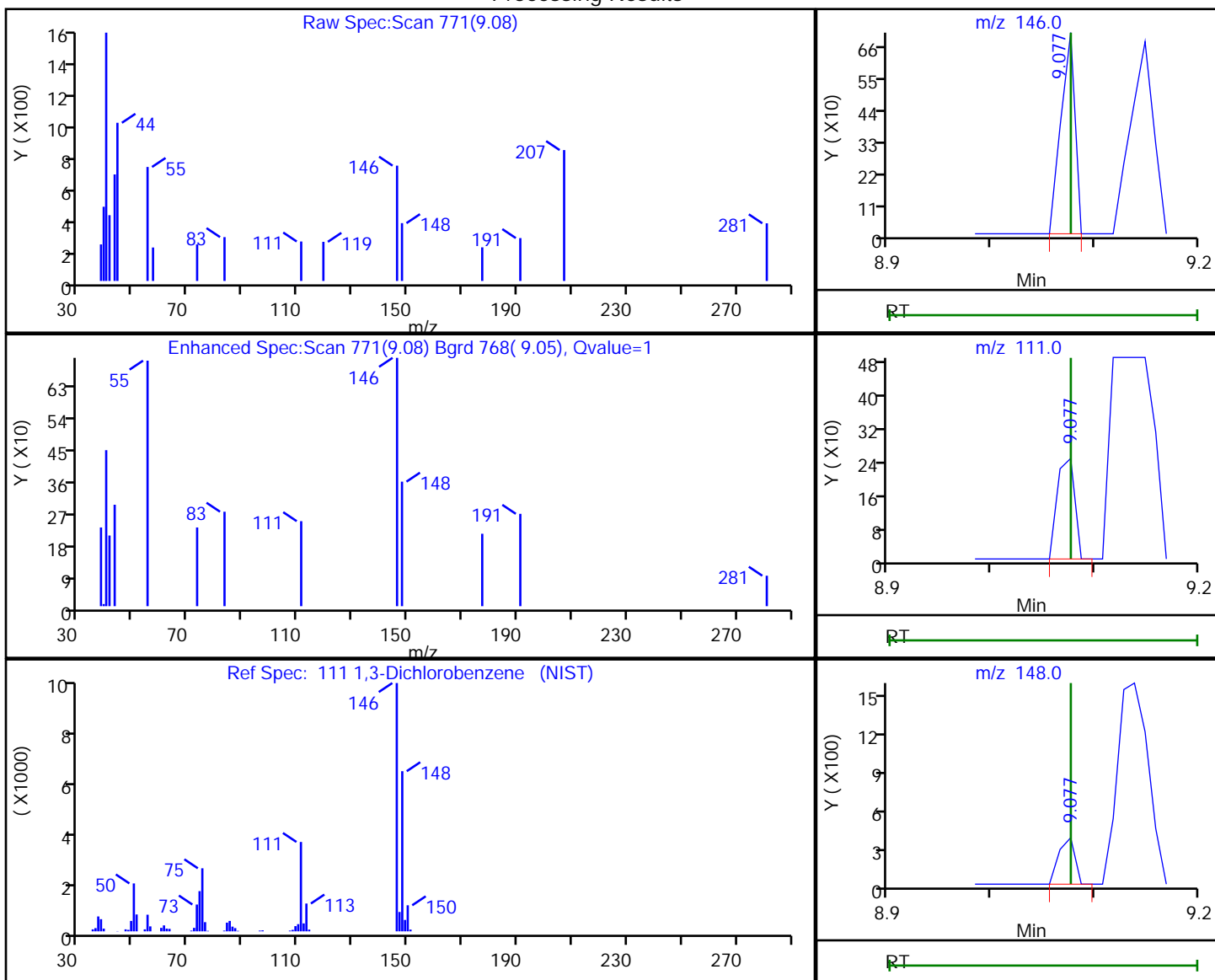
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.08	146.00	677	0.019326
9.08	111.00	287	
9.08	148.00	387	

Reviewer: izquierdoo, 02-Mar-2019 10:34:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

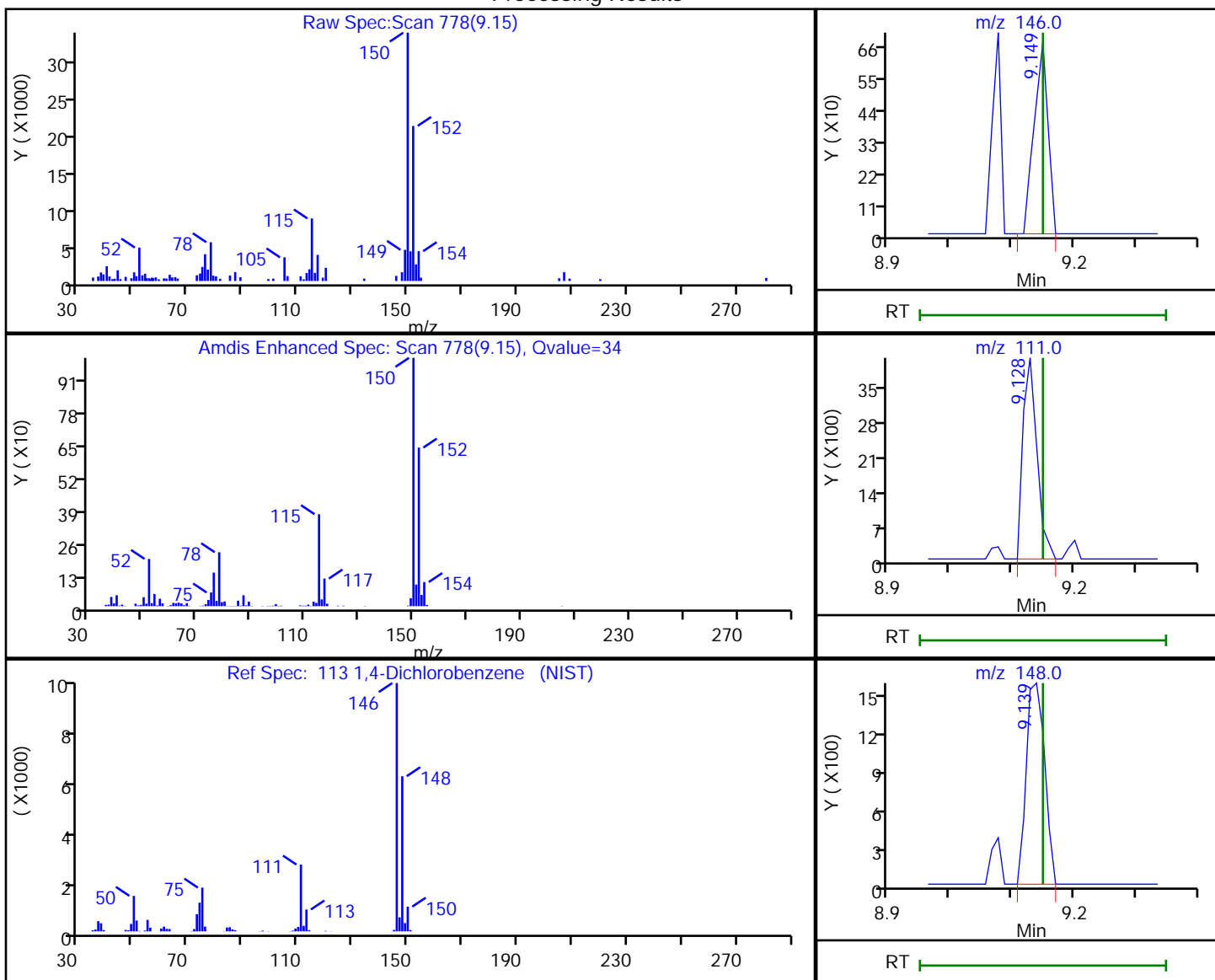
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.15	146.00	1063	0.029963
9.13	111.00	6385	
9.14	148.00	3188	

Reviewer: izquierdo, 02-Mar-2019 10:34:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

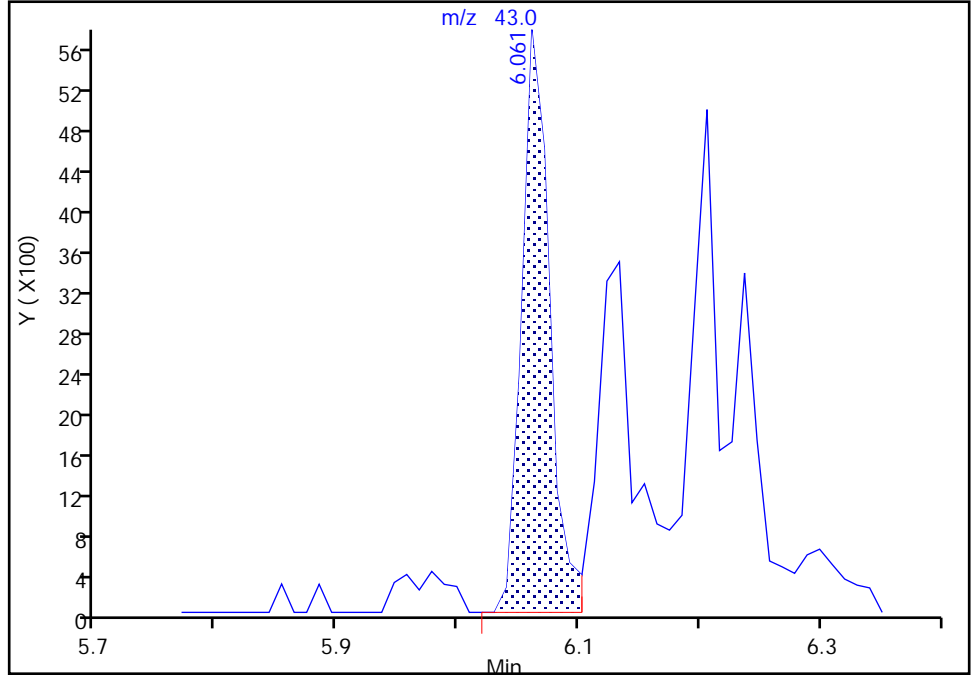
TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D
Injection Date: 02-Mar-2019 03:27:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-1 Lab Sample ID: 480-149618-1
Client ID: ML-2D
Operator ID: NC ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

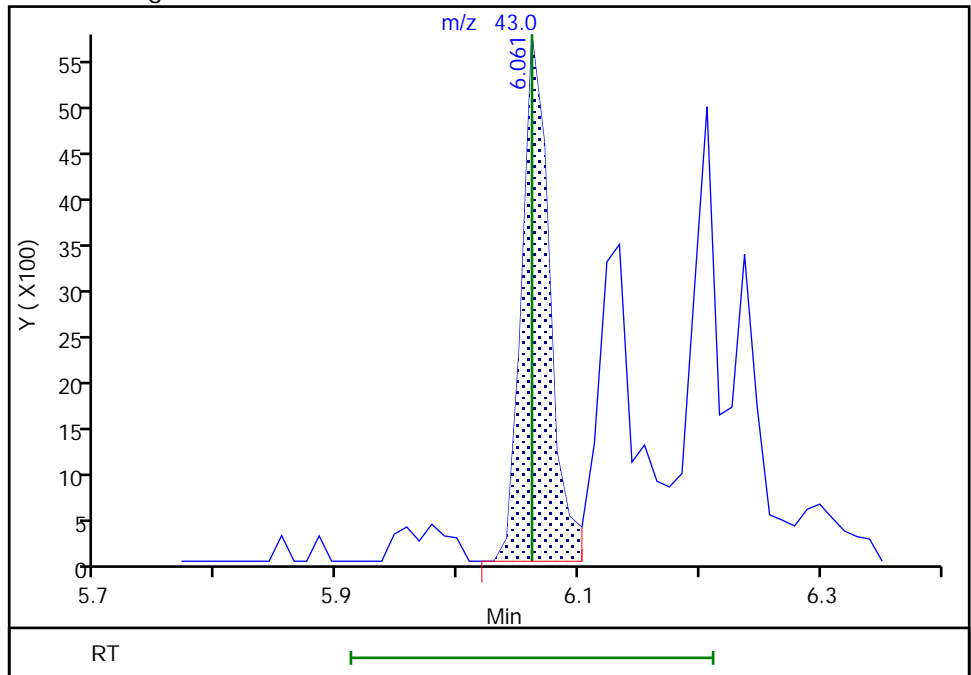
RT: 6.06
Area: 9250
Amount: 0.532050
Amount Units: ug/L

Processing Integration Results



RT: 6.06
Area: 9250
Amount: 0.532050
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

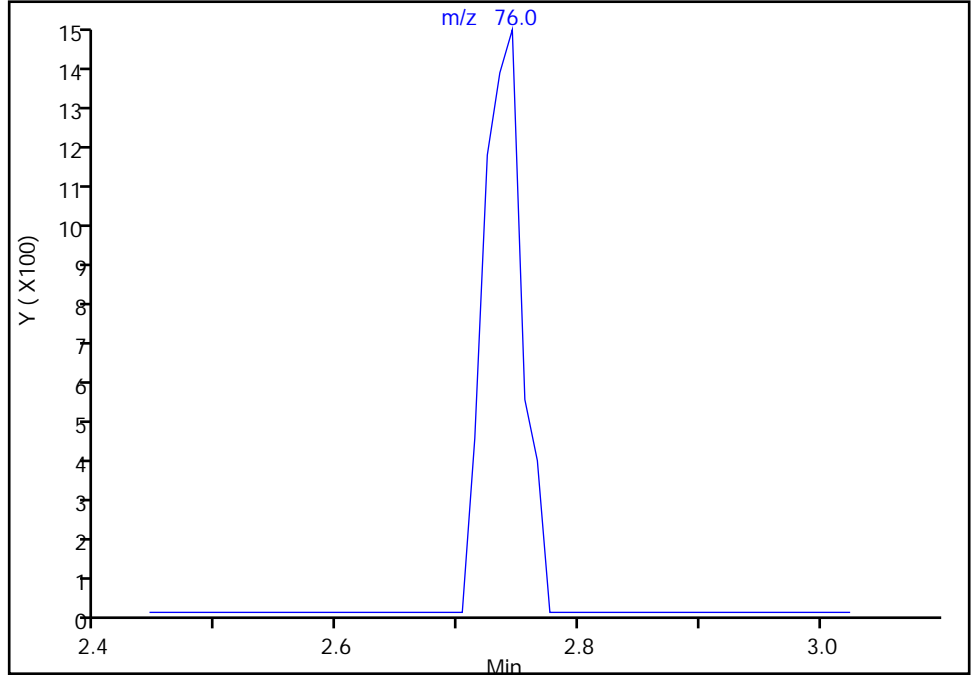
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Injection Date: 02-Mar-2019 03:27:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-1 Lab Sample ID: 480-149618-1
Client ID: ML-2D
Operator ID: NC ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

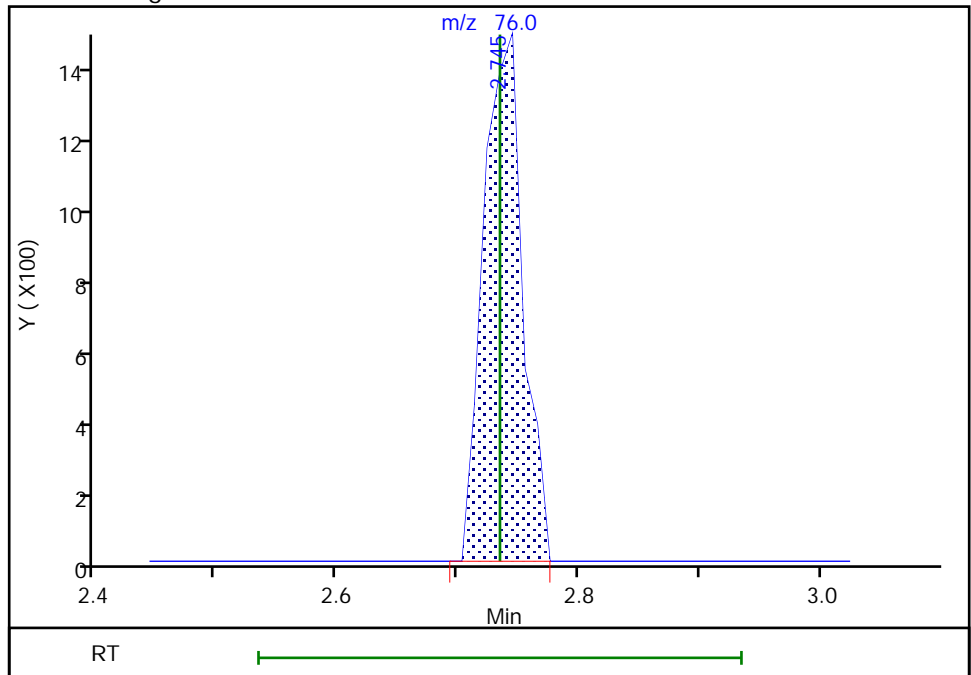
Not Detected
Expected RT: 2.73

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 3237
Amount: 0.091966
Amount Units: ug/L



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

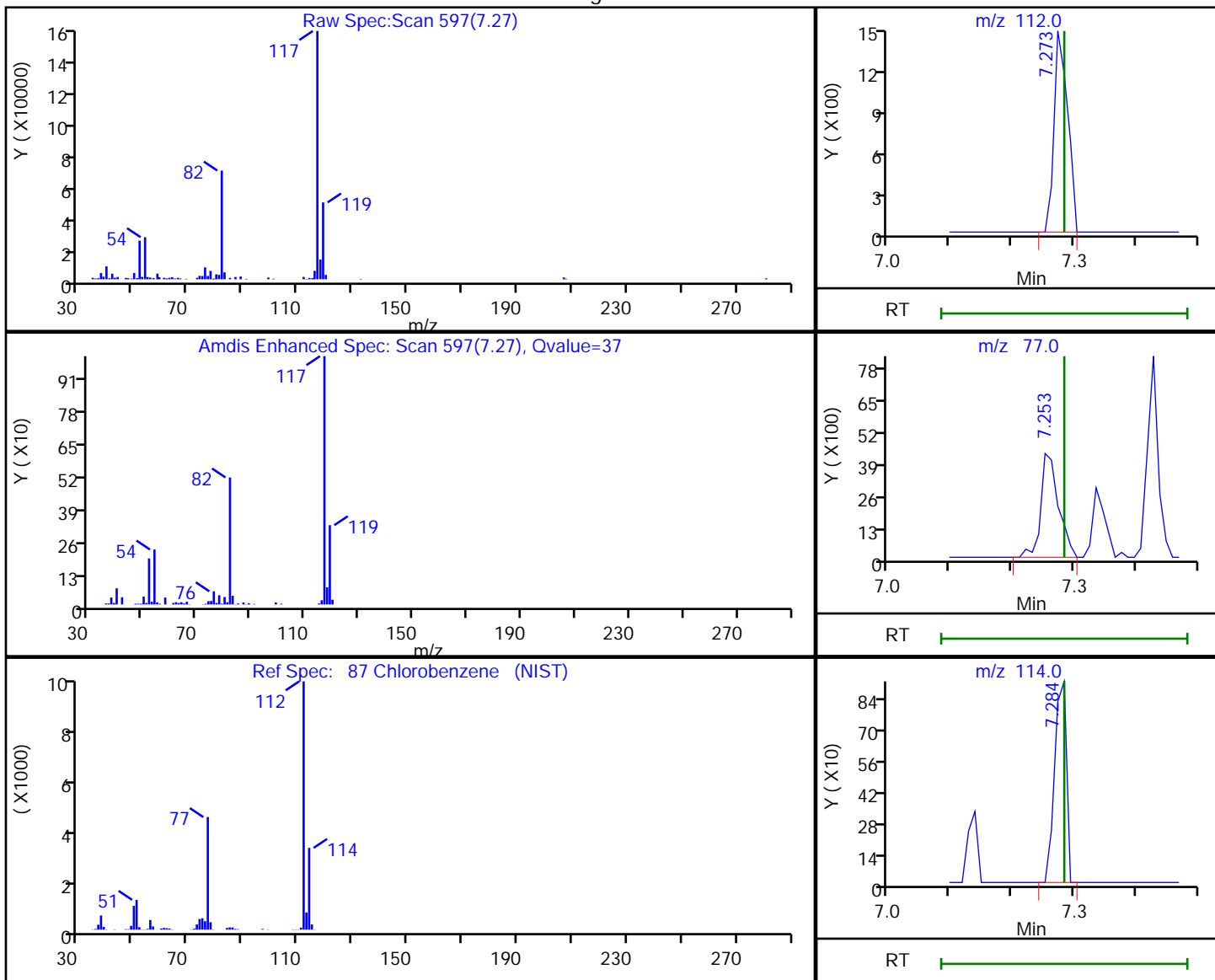
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

87 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
7.27	112.00	2280	0.059599
7.25	77.00	8539	
7.28	114.00	1232	

Reviewer: izquierdoo, 02-Mar-2019 10:35:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

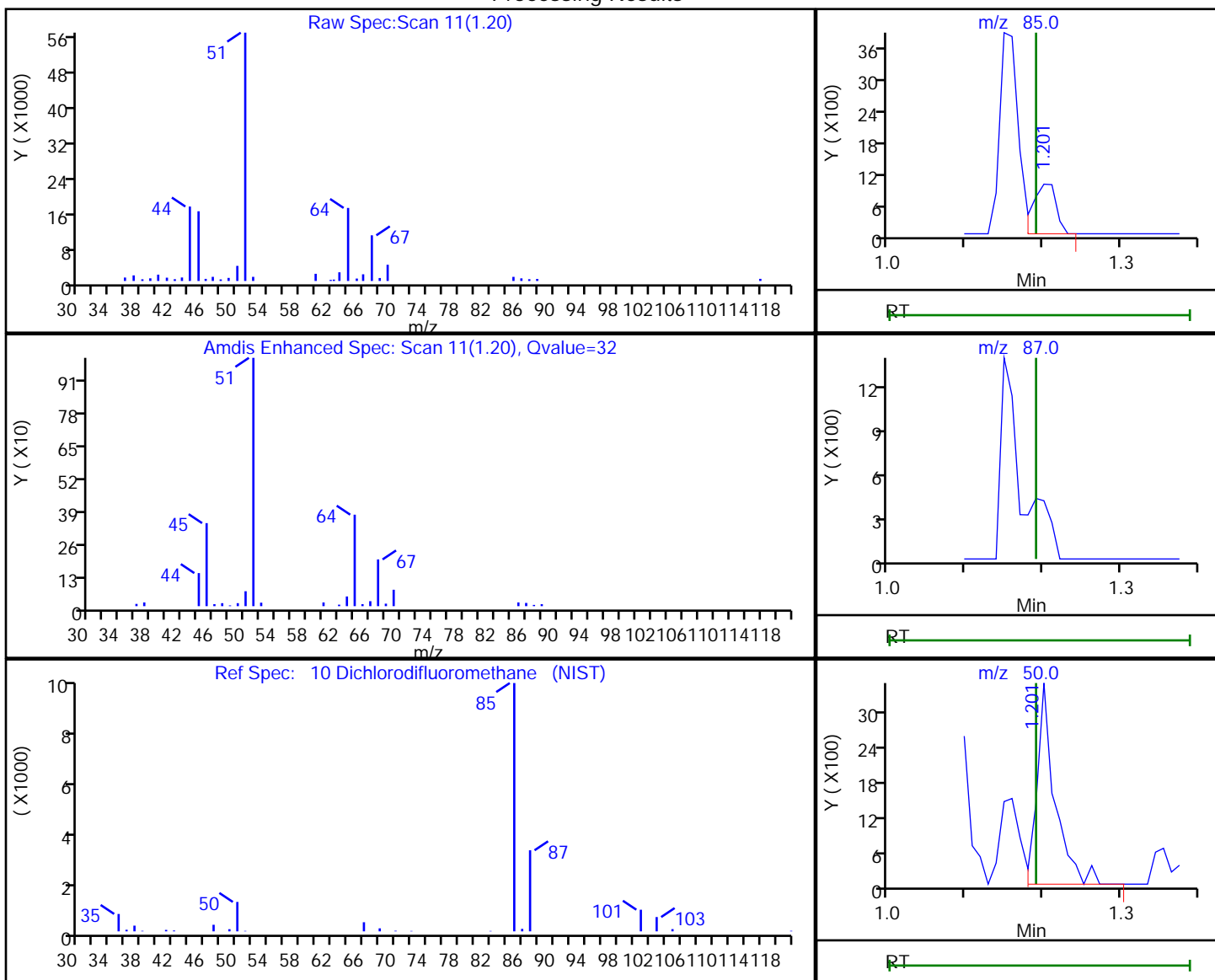
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.20	85.00	1967	0.141163
1.20	50.00	5534	
1.19	87.00	0	

Reviewer: izquierdoo, 02-Mar-2019 10:36:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

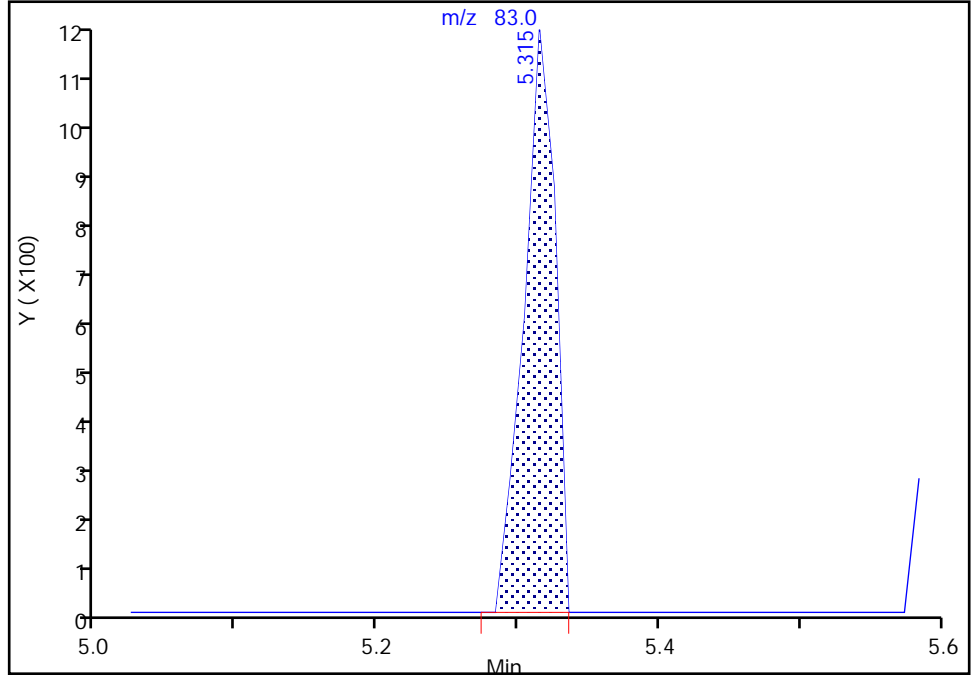
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D
Injection Date: 02-Mar-2019 03:27:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-1 Lab Sample ID: 480-149618-1
Client ID: ML-2D
Operator ID: NC ALS Bottle#: 15 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Signal: 1

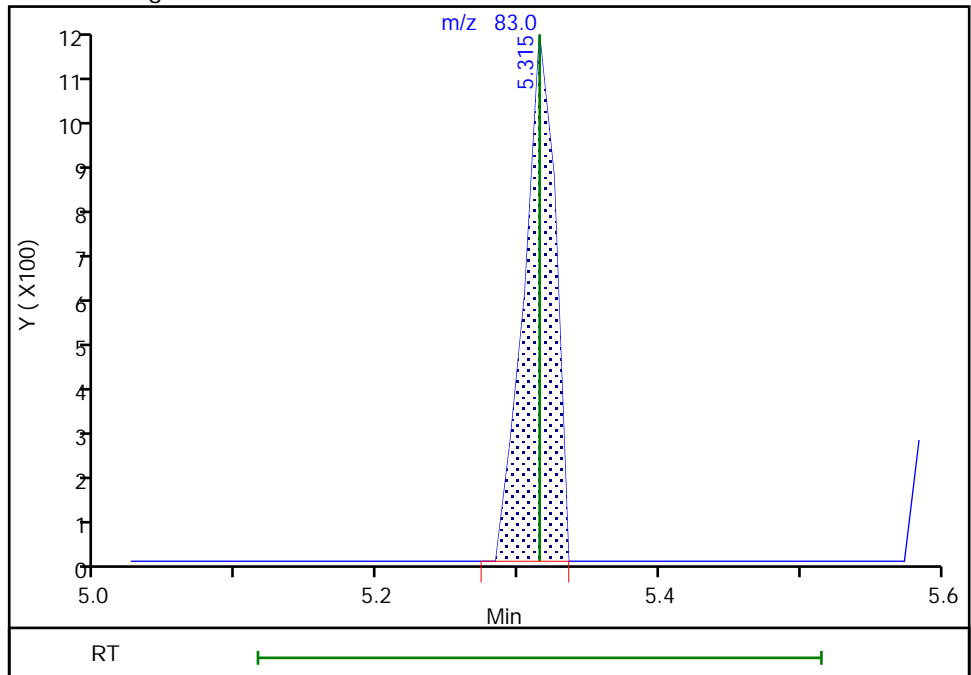
RT: 5.31
Area: 1762
Amount: 0.102505
Amount Units: ug/L

Processing Integration Results



RT: 5.31
Area: 1762
Amount: 0.102505
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

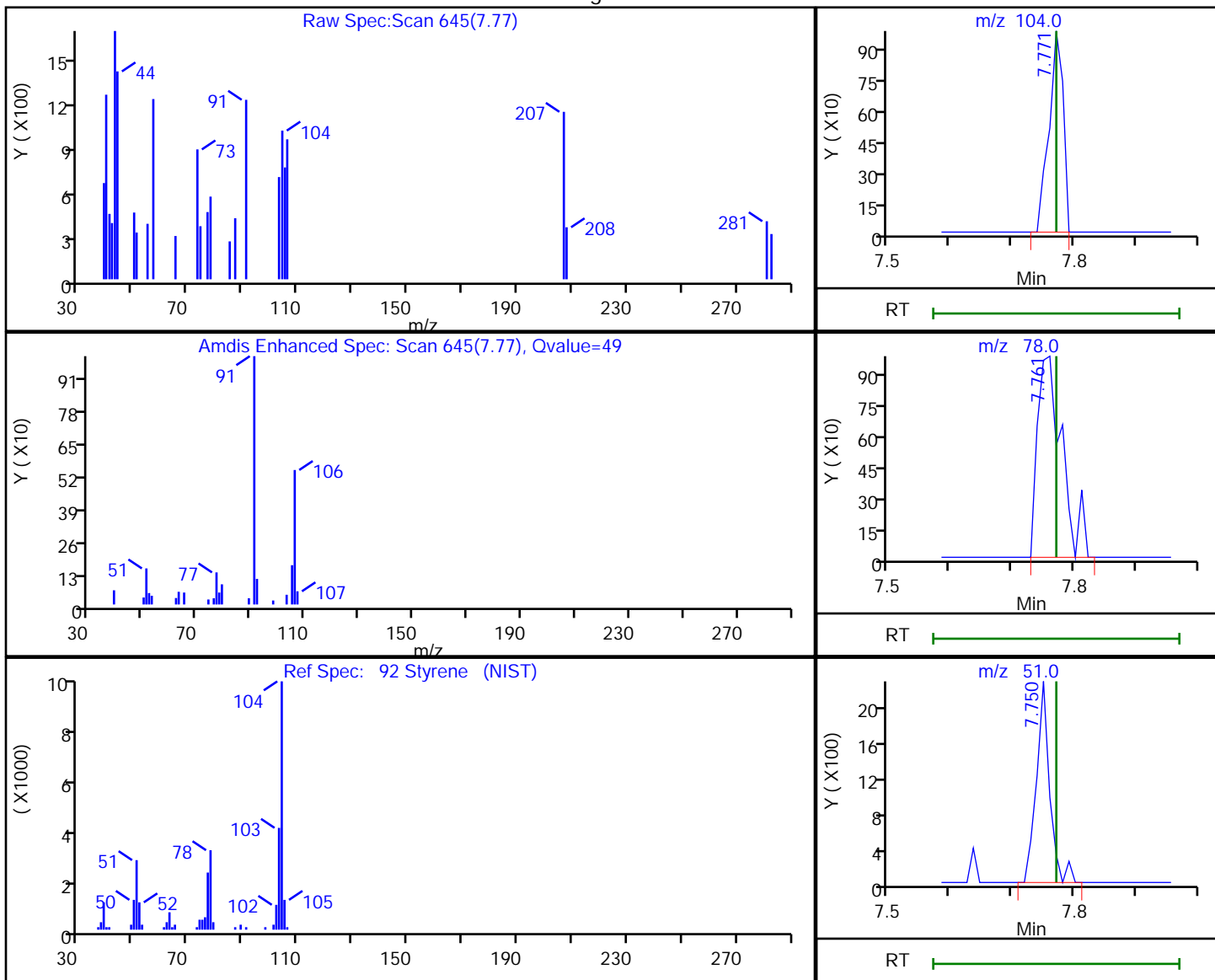
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.77	104.00	1583	0.040463
7.76	78.00	2715	
7.75	51.00	3361	

Reviewer: izquierdoo, 02-Mar-2019 10:35:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5014.D

Injection Date: 02-Mar-2019 03:27:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-1

Lab Sample ID: 480-149618-1

Client ID: ML-2D

Operator ID: NC

ALS Bottle#: 15 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

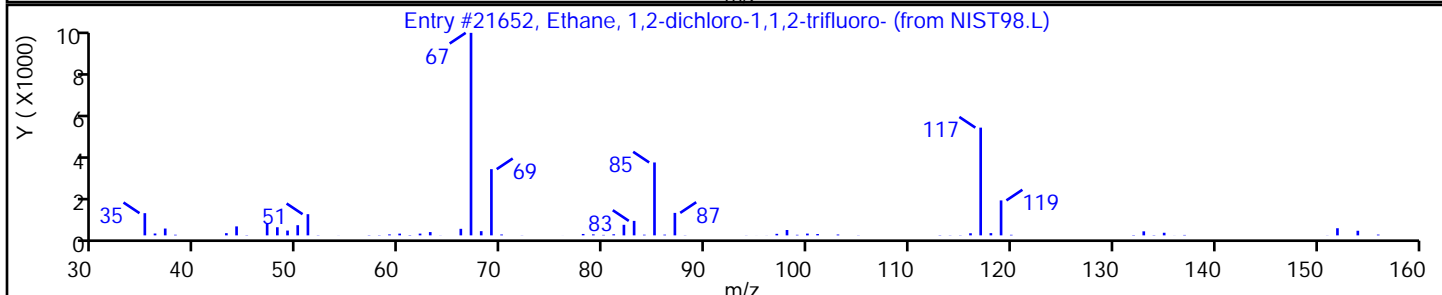
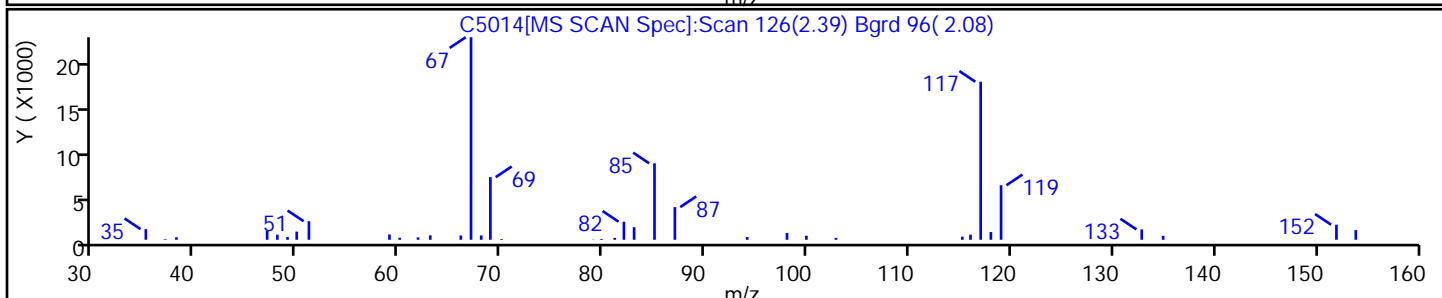
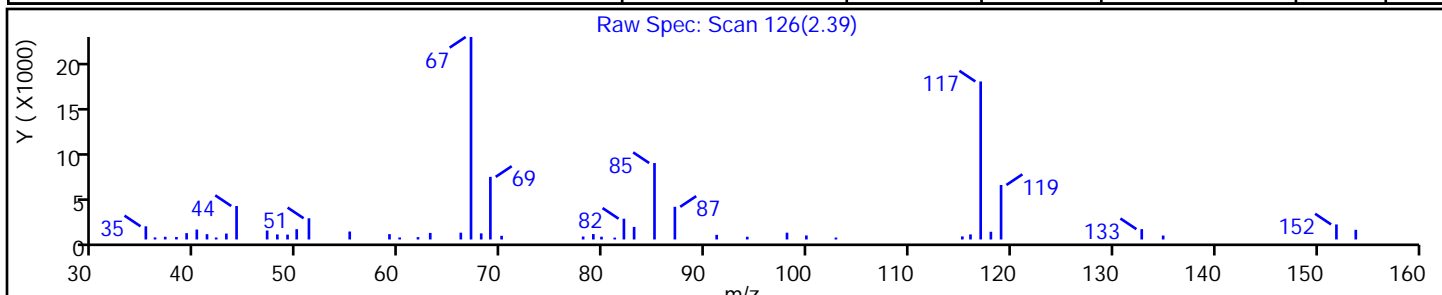
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	91



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-149618-2
 Matrix: Water Lab File ID: C5015.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 03:54
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND	*	40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	34		20	8.4
67-64-1	Acetone	12	J	40	12
71-43-2	Benzene	20		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND	*	4.0	1.3
75-00-3	Chloroethane	1.8	J	4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	46		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	6.9		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	34		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-149618-2
 Matrix: Water Lab File ID: C5015.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 03:54
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	45		4.0	0.64
108-87-2	Methylcyclohexane	0.70	J	4.0	0.64
75-09-2	Methylene Chloride	4.3		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	2.6	J	4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	36		4.0	3.6
1330-20-7	Xylenes, Total	77		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-149618-2
 Matrix: Water Lab File ID: C5015.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:50
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 03:54
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 11

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	7.79	11	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D
 Lims ID: 480-149618-B-2
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 02-Mar-2019 03:54:30 ALS Bottle#: 16 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-149618-B-2
 Misc. Info.: 480-0079070-019
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:00:27 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo

Date: 02-Mar-2019 13:01:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	206178	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	86	454453	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	94	489239	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	307436	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	95	186970	25.9	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	94	1147200	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	97	391412	27.3	
10 Dichlorodifluoromethane	85		1.190				ND	
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.439	0.000	99	127673	8.93	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.823	0.000	50	4167	0.4617	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.538				ND	
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43	2.672	2.672	0.010	97	16354	3.03	Ma
26 Carbon disulfide	76		2.735				ND	Ua
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	98	14515	1.07	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	98	414359	11.2	
34 trans-1,2-Dichloroethene	96		3.242				ND	Ua
39 1,1-Dichloroethane	63		3.605				ND	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	79	176576	11.4	
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83	4.341	4.351	-0.010	32	2154	0.0918	
51 1,1,1-Trichloroethane	97		4.444				ND	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78	4.735	4.735	0.000	74	242423	5.02	
58 1,2-Dichloroethane	62	4.787	4.786	0.001	42	1968	0.0970	
62 Trichloroethene	95	5.222	5.222	0.000	31	1602	0.1249	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	88	3014	0.1761	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	98	143501	8.39	
74 Toluene	92	6.186	6.186	0.011	99	21344	0.6602	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.590				ND	MUa
80 2-Hexanone	43	6.704	6.704	0.000	9	1891	0.1761	Ma
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112	7.284	7.284	0.000	91	11758	0.3124	a
88 Ethylbenzene	91	7.336	7.346	0.000	98	105496	1.72	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	453025	18.3	
91 o-Xylene	106	7.750	7.752	0.000	97	28065	1.07	
92 Styrene	104		7.771				ND	
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	572085	8.55	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	Ua
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	40	5464	0.1552	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	74	7393	0.2139	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	U
119 1,2,4-Trichlorobenzene	180		10.776				ND	MUa
S 124 Xylenes, Total	1				0		19.4	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D
 Lims ID: 480-149618-B-2
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 02-Mar-2019 03:54:30 ALS Bottle#: 16 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-149618-B-2
 Misc. Info.: 480-0079070-019
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:00:27 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315
 First Level Reviewer: izquierdo Date: 02-Mar-2019 13:01:41

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
7.792	314426	2.83	2		Unknown			

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 2 Chlorobenzene-d5	7.253	2773107	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Worklist Smp#: 19

Client ID: ML-2S

Purge Vol: 5.000 mL

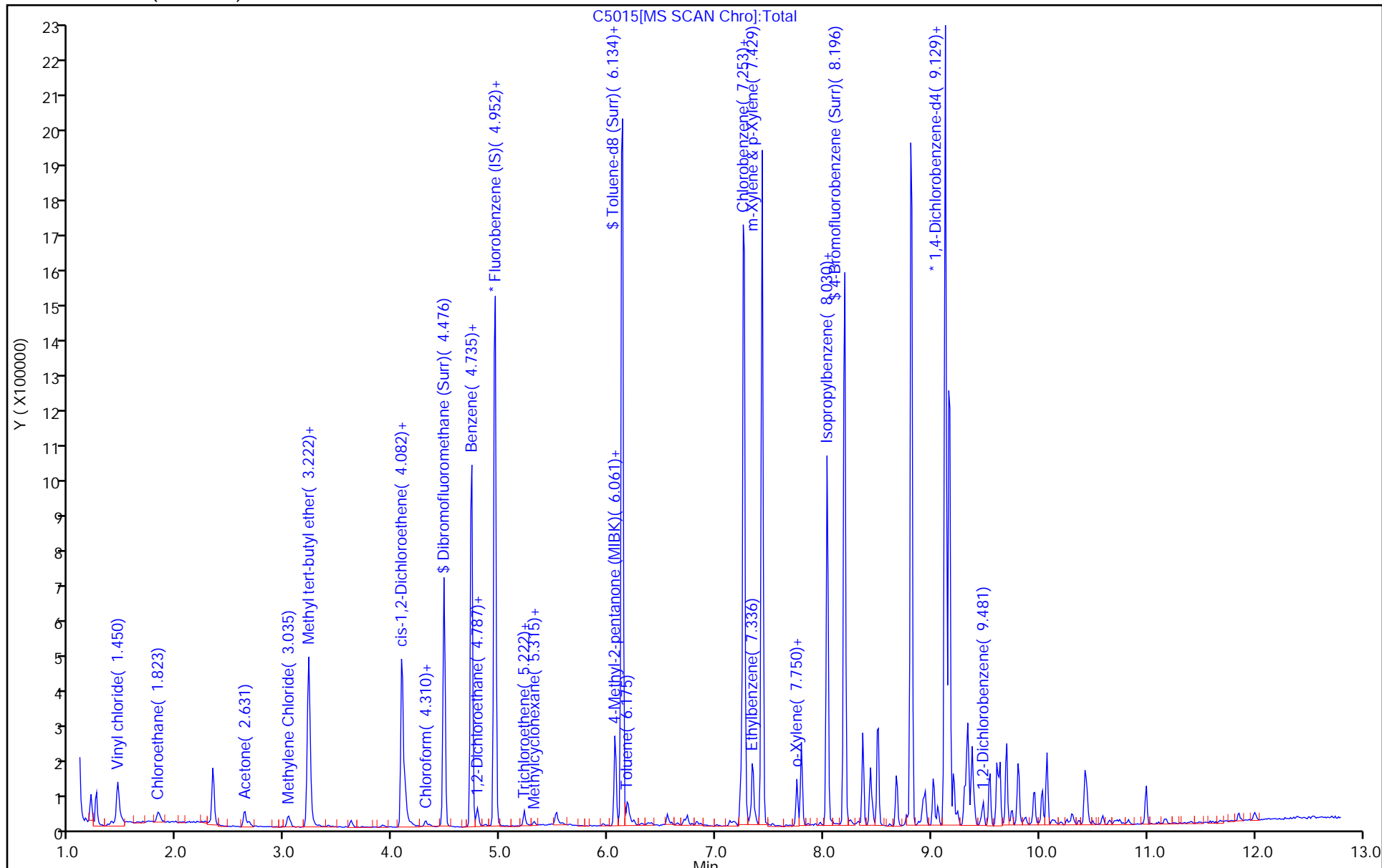
Dil. Factor: 4.0000

ALS Bottle#: 16

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

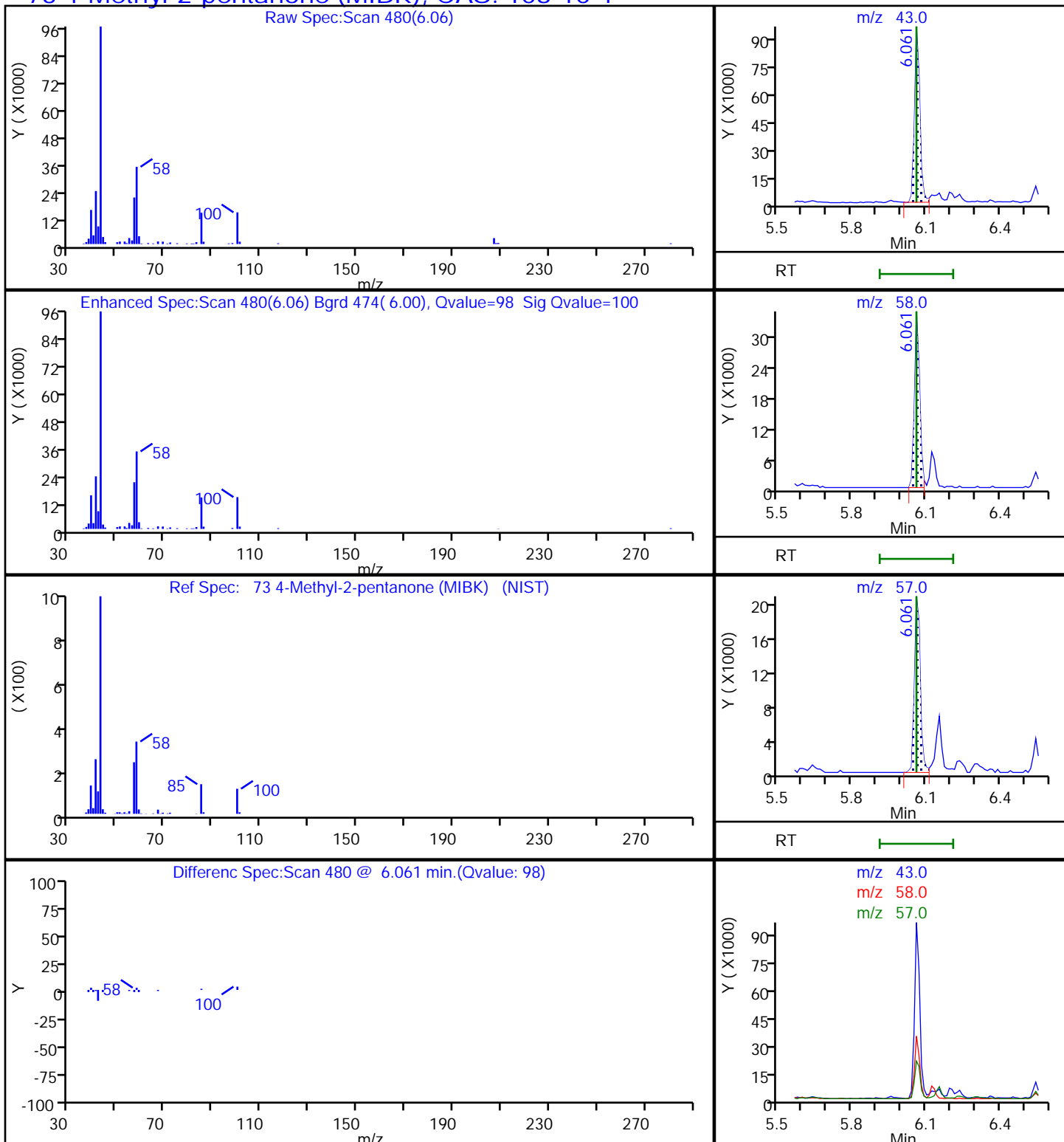
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

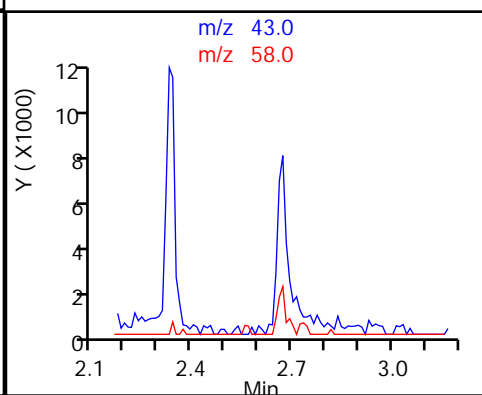
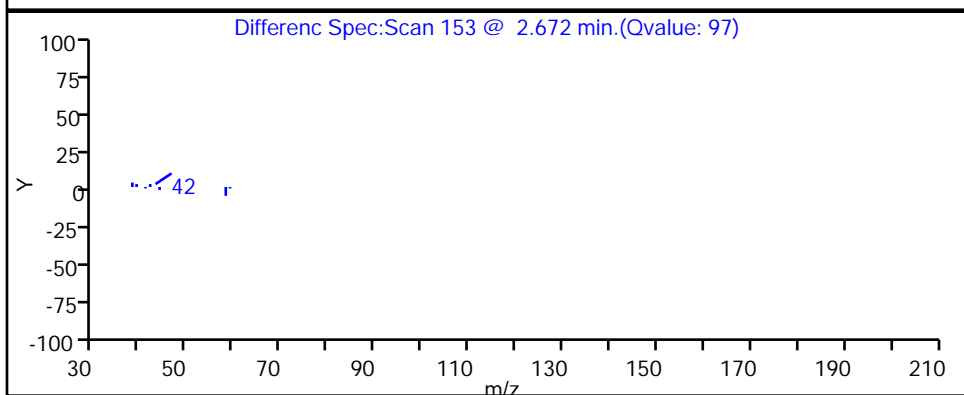
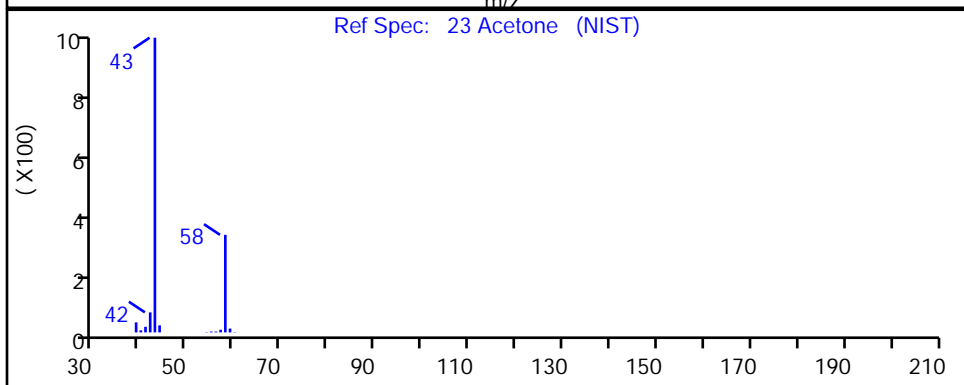
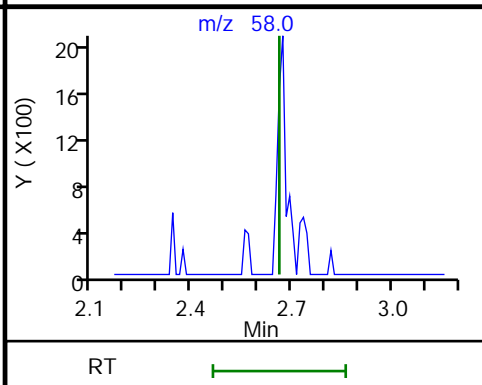
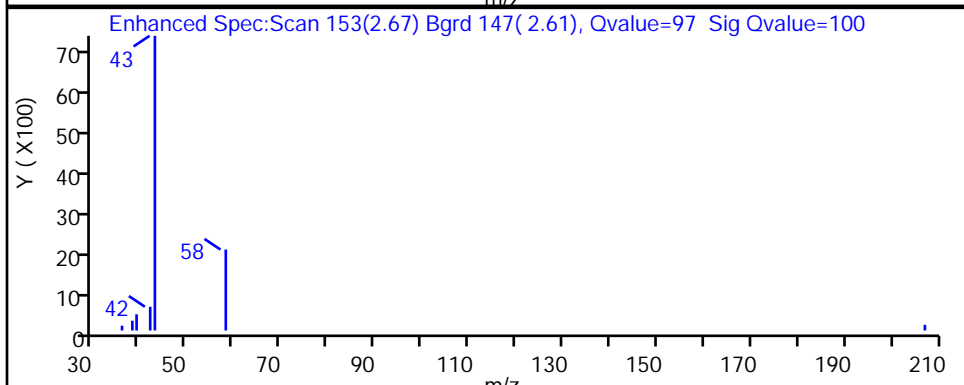
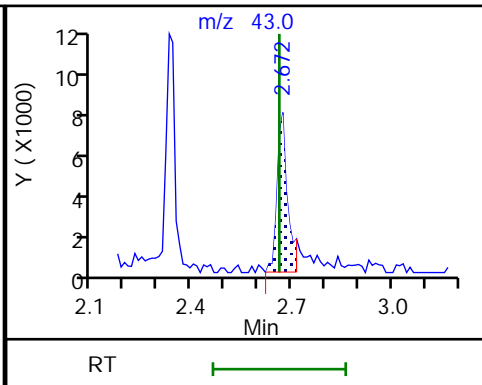
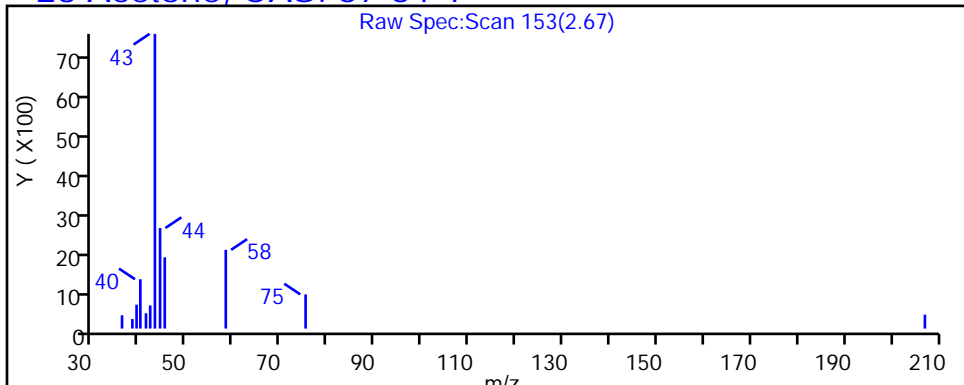
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

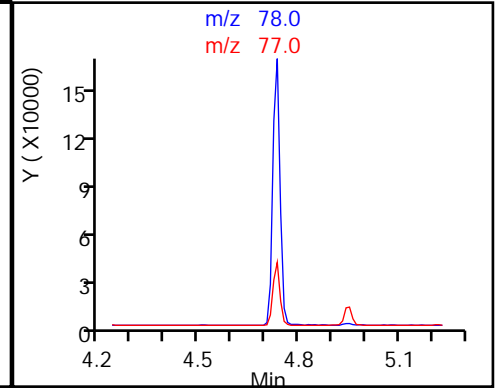
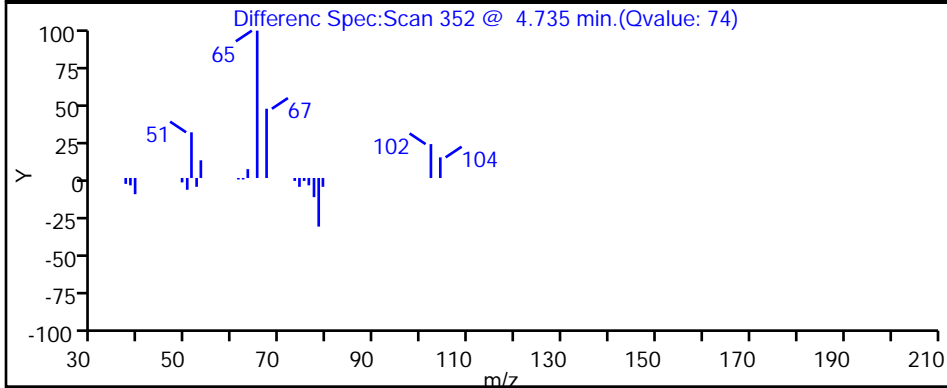
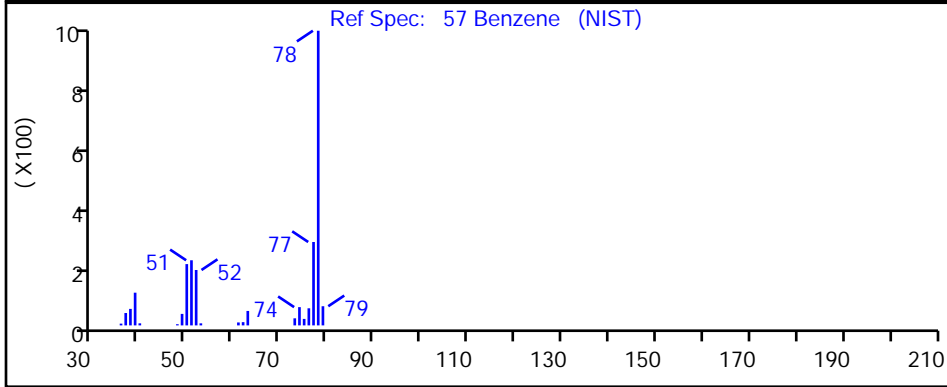
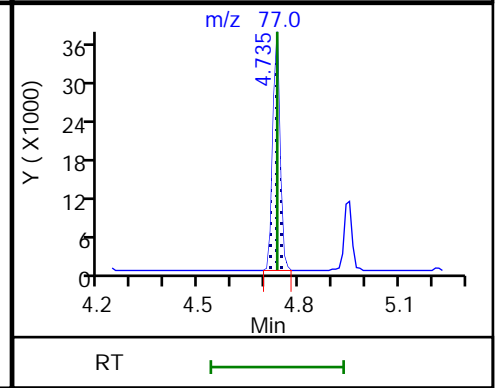
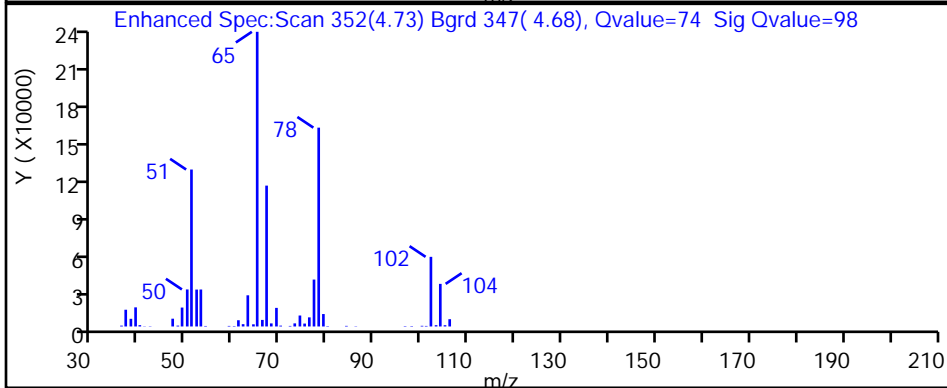
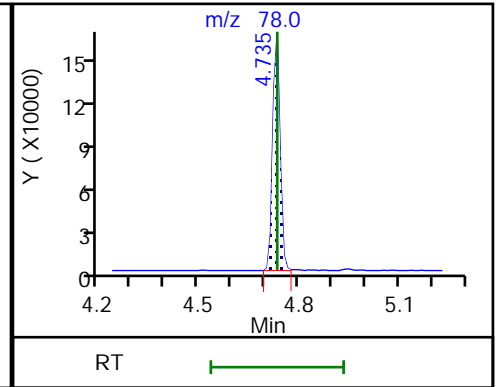
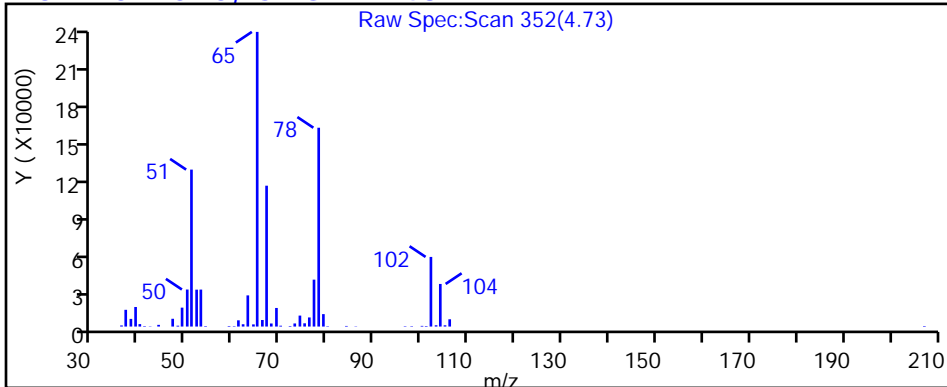
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

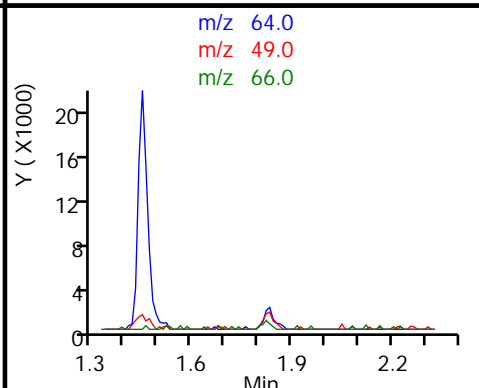
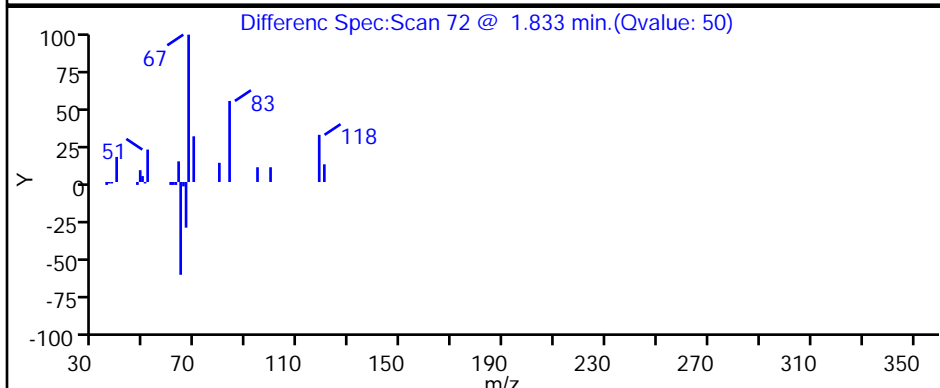
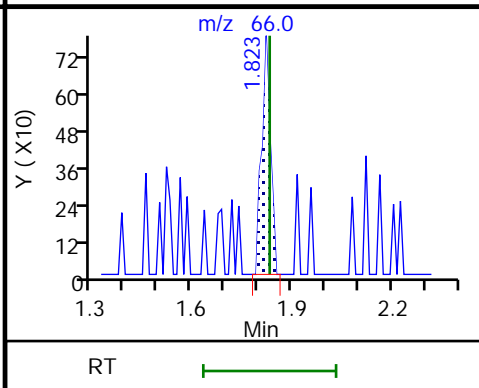
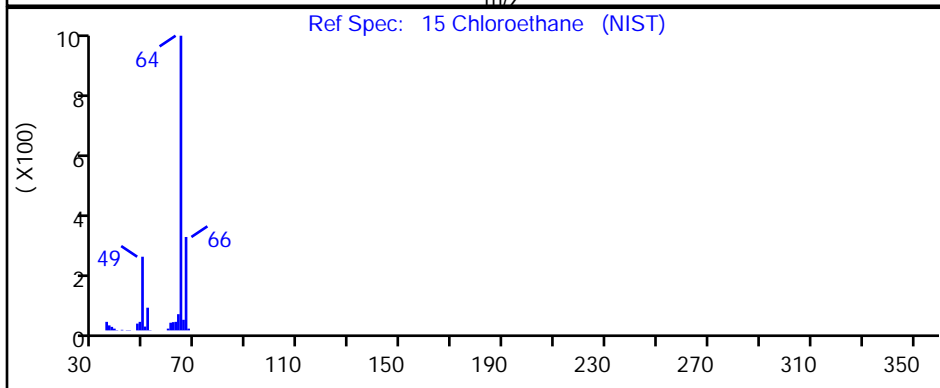
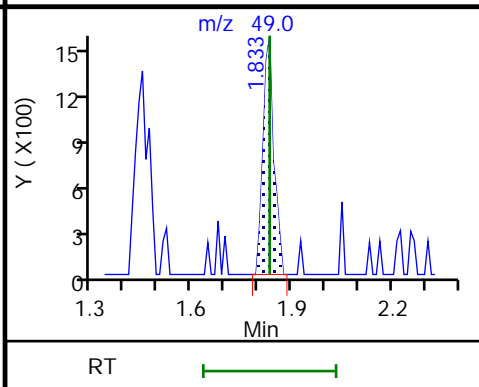
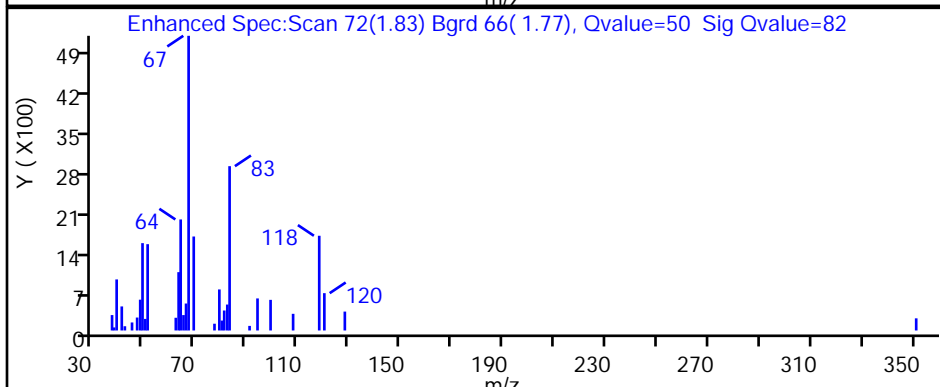
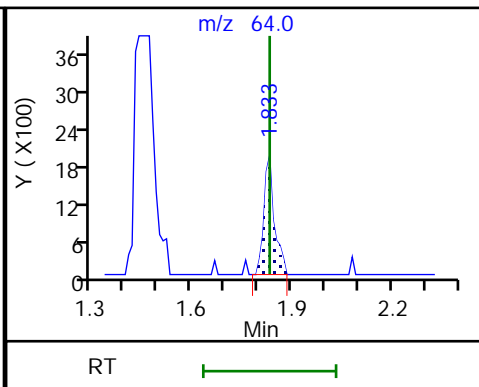
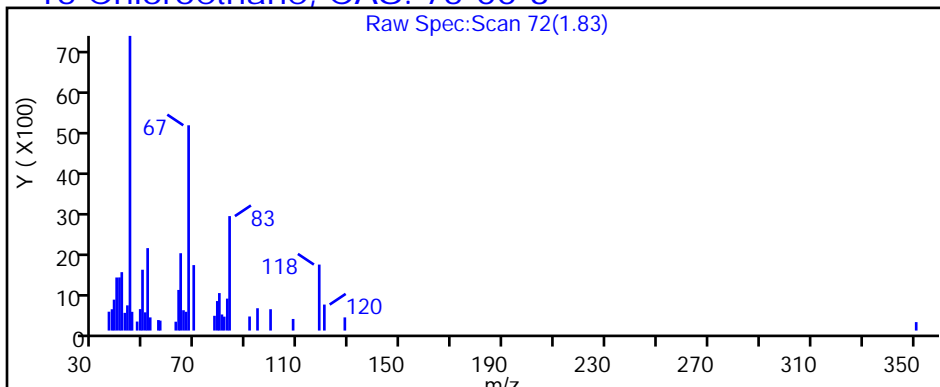
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

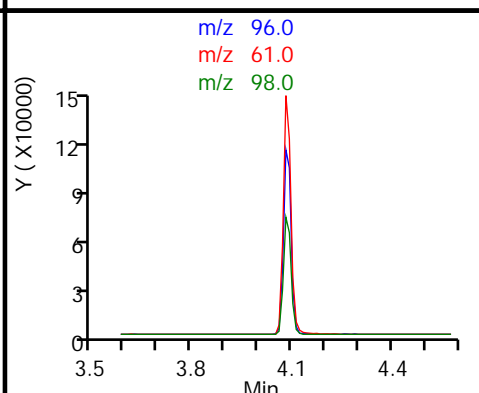
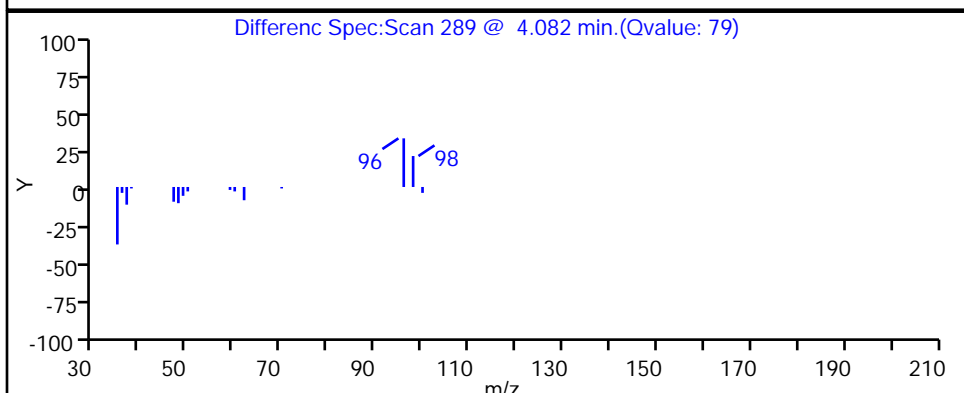
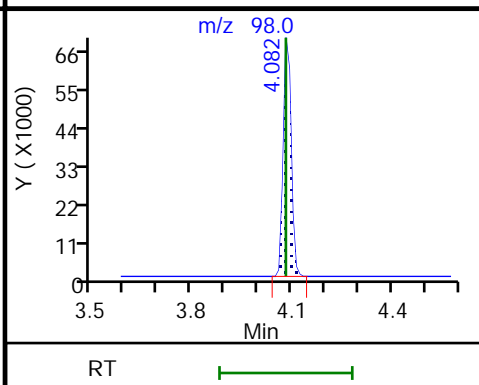
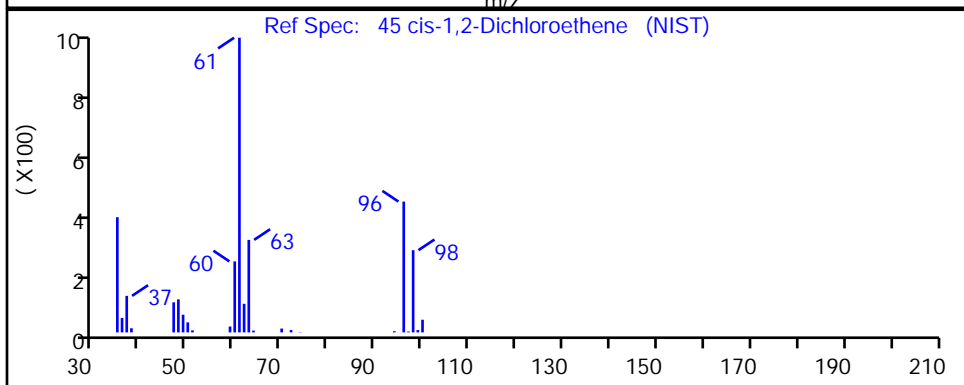
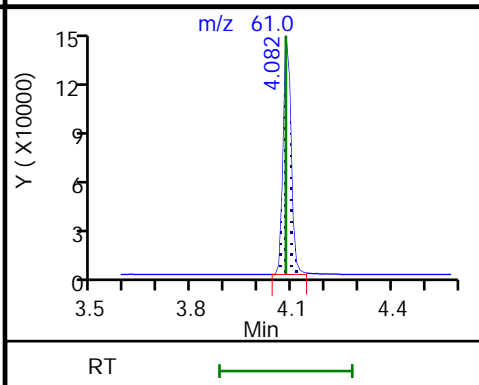
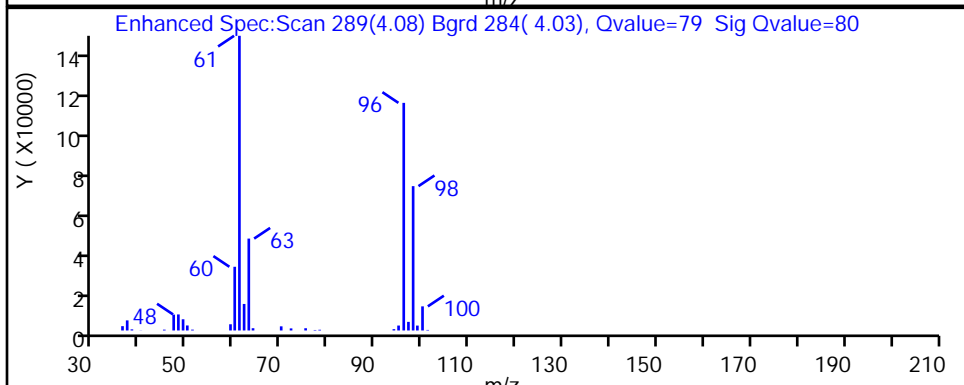
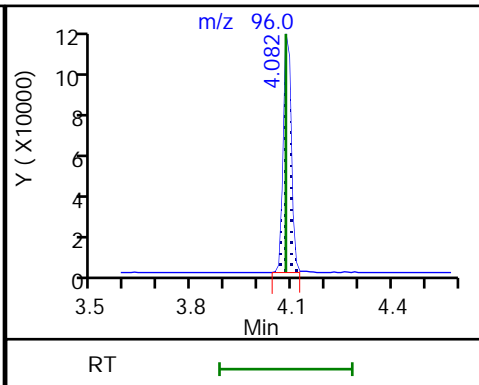
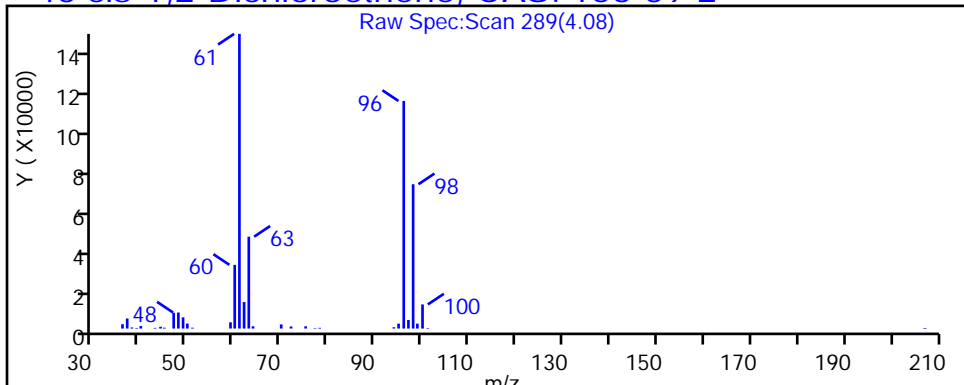
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

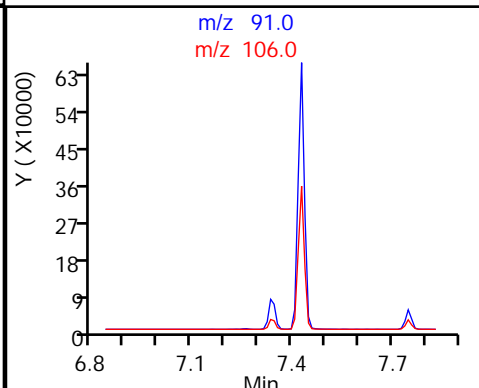
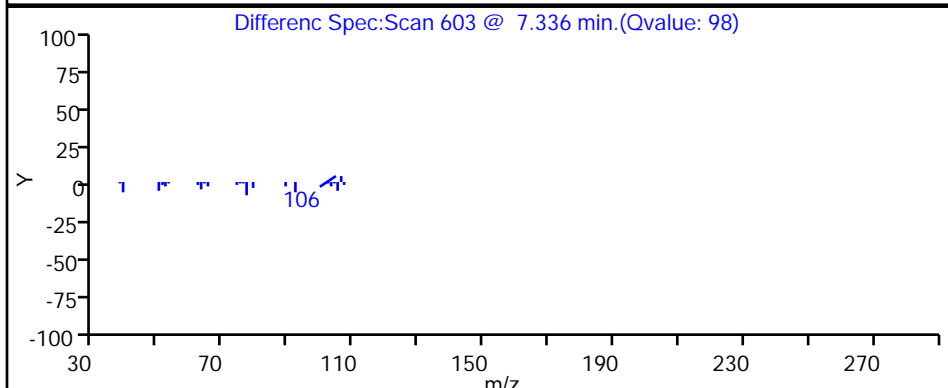
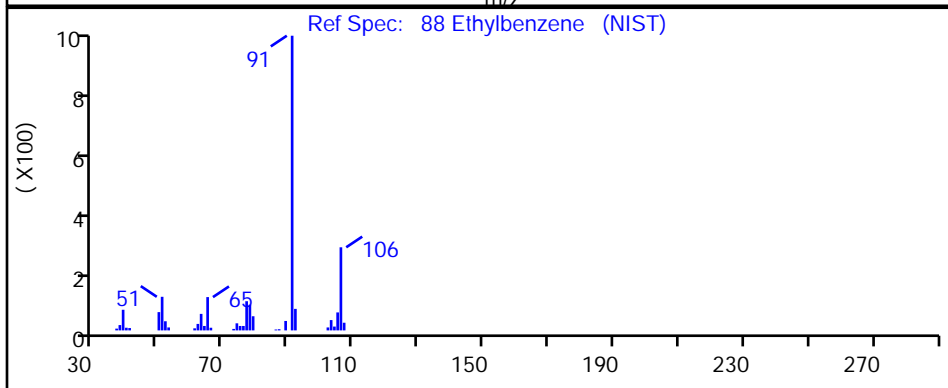
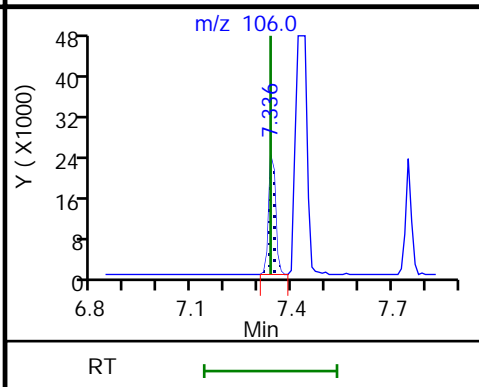
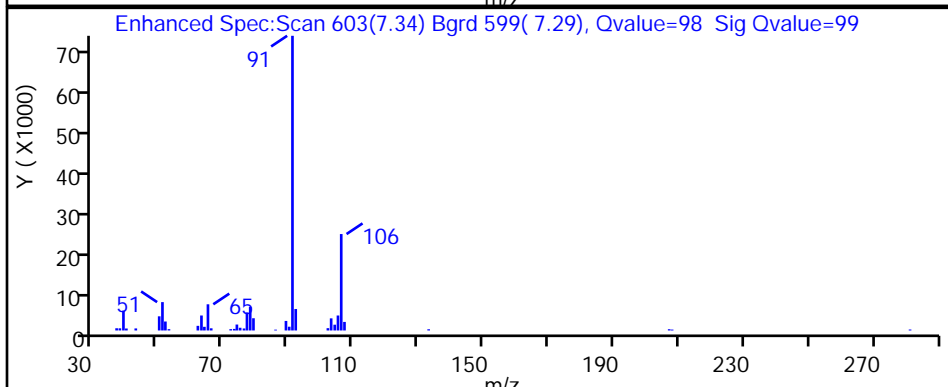
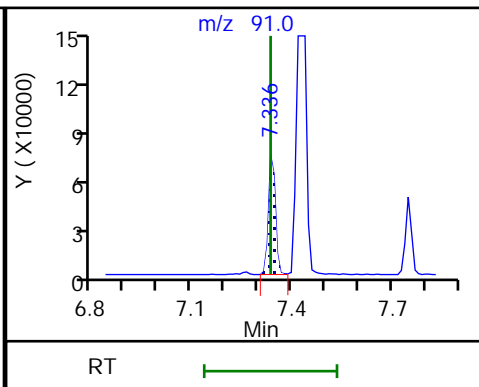
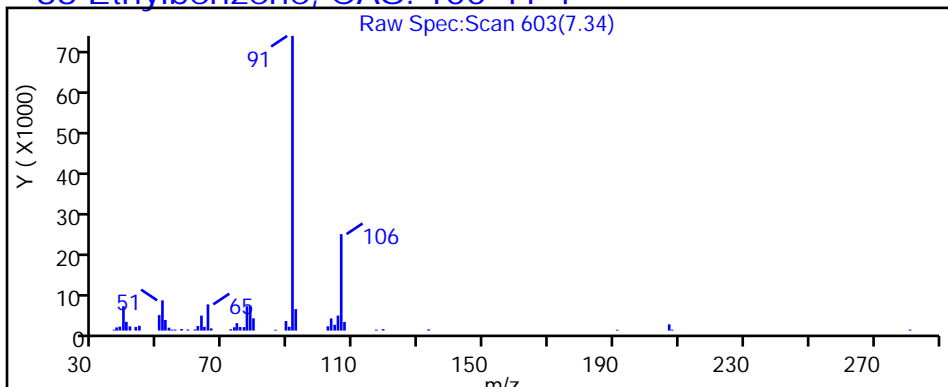
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

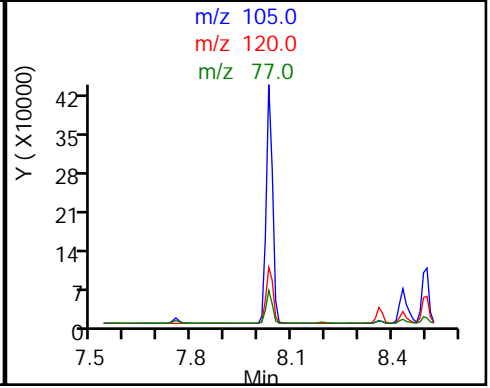
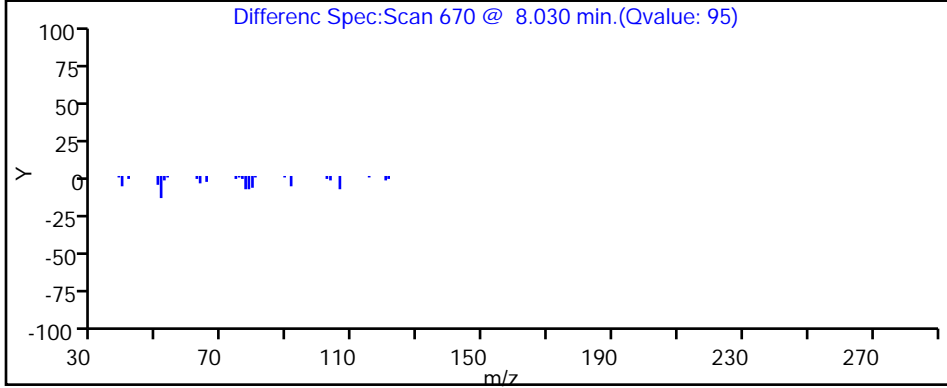
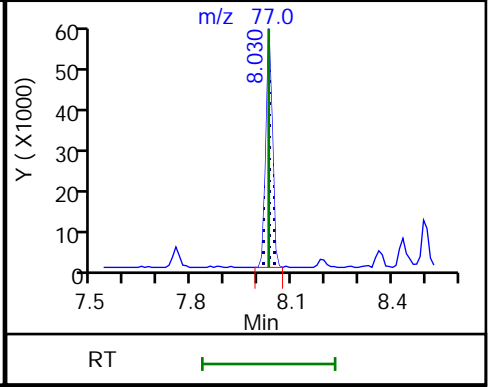
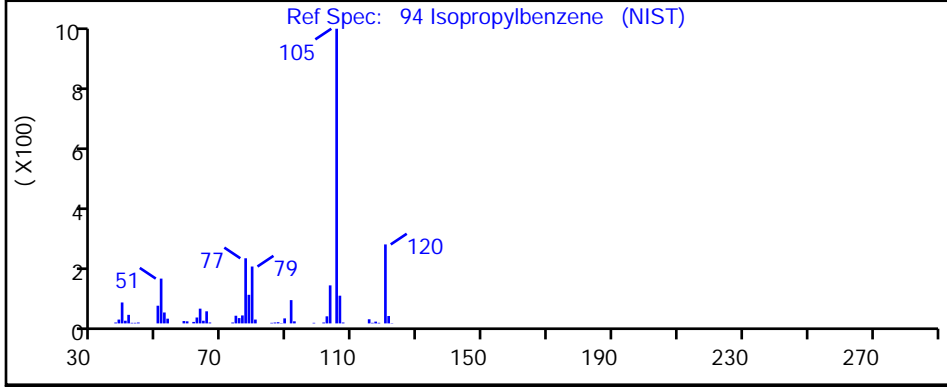
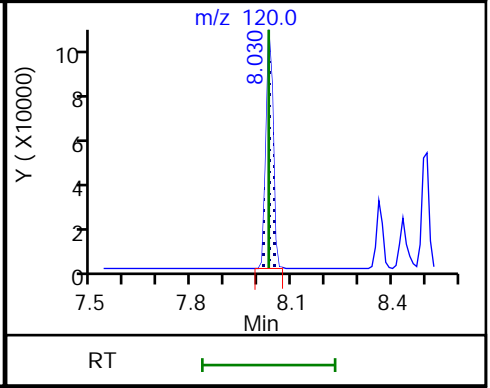
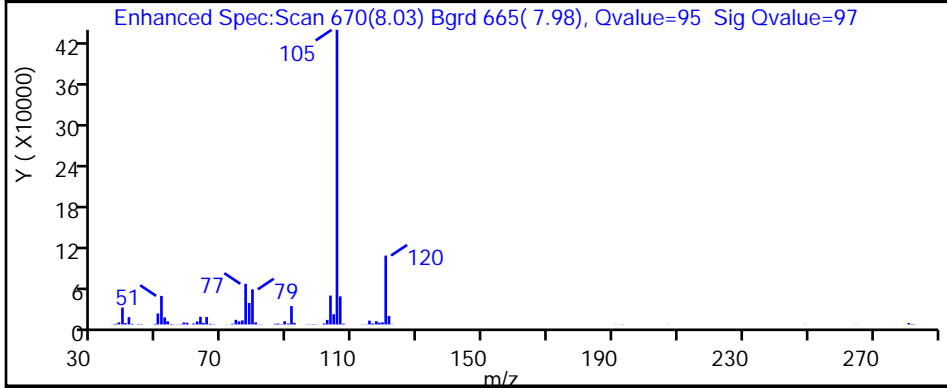
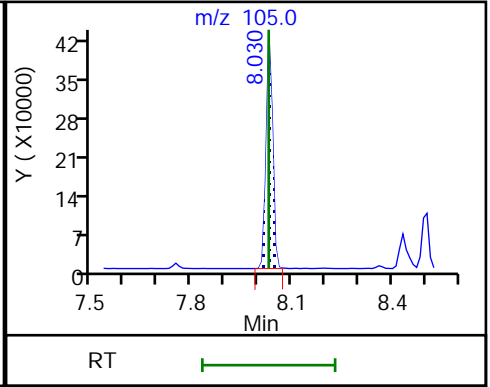
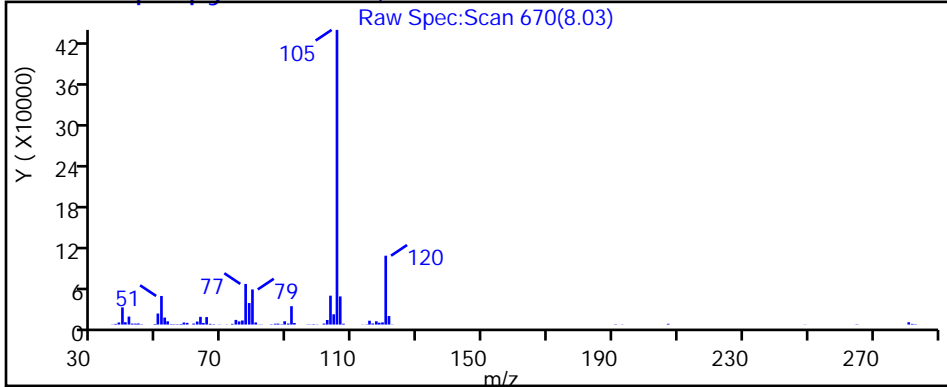
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

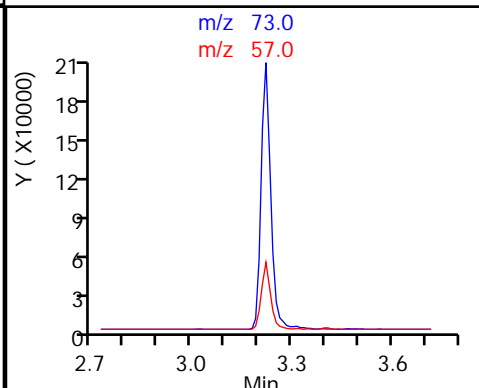
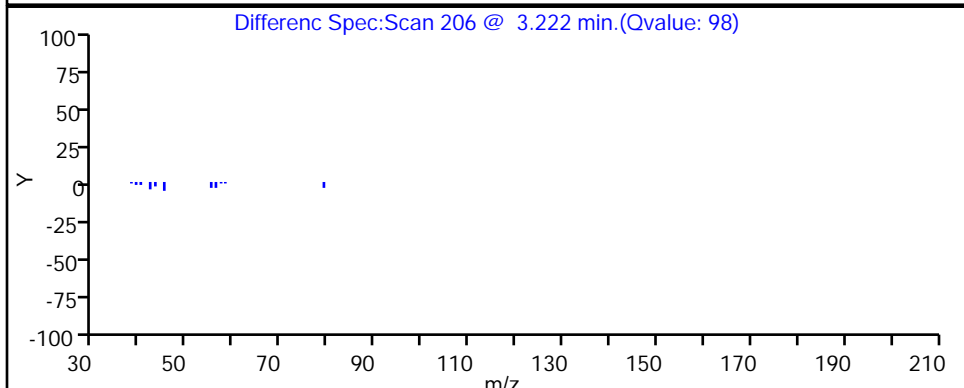
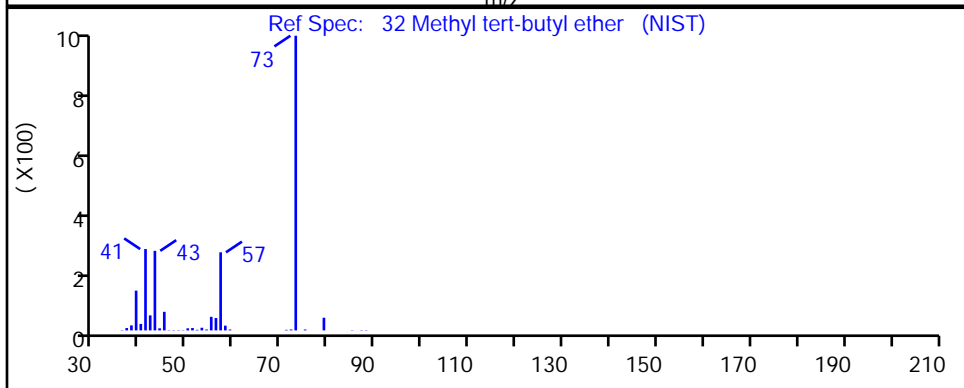
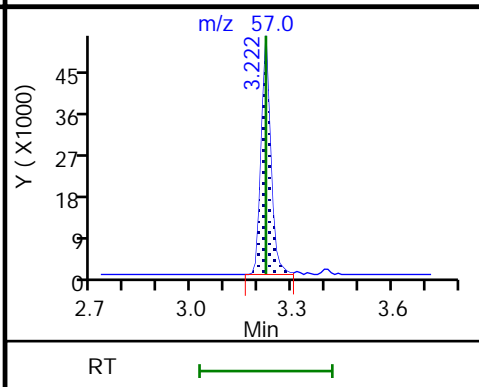
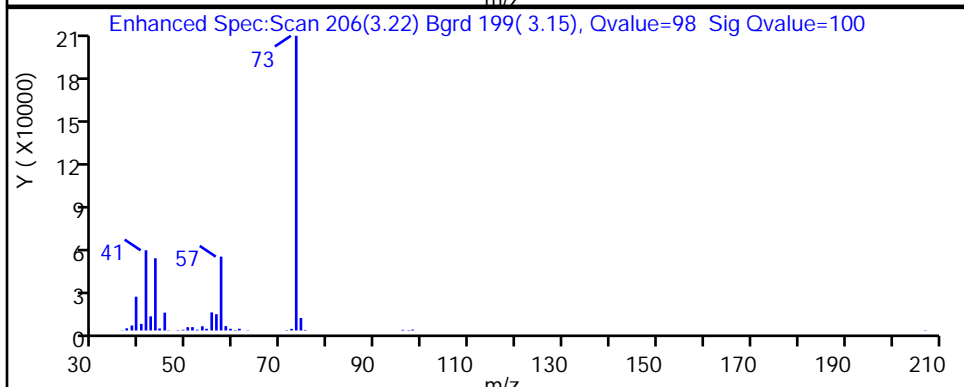
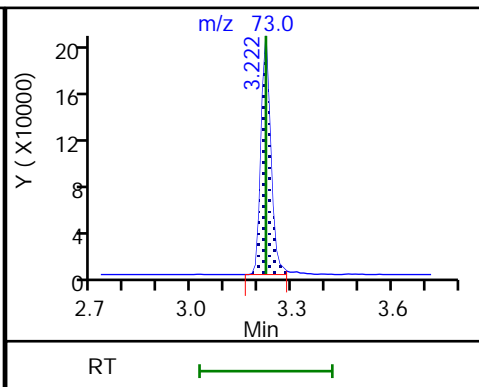
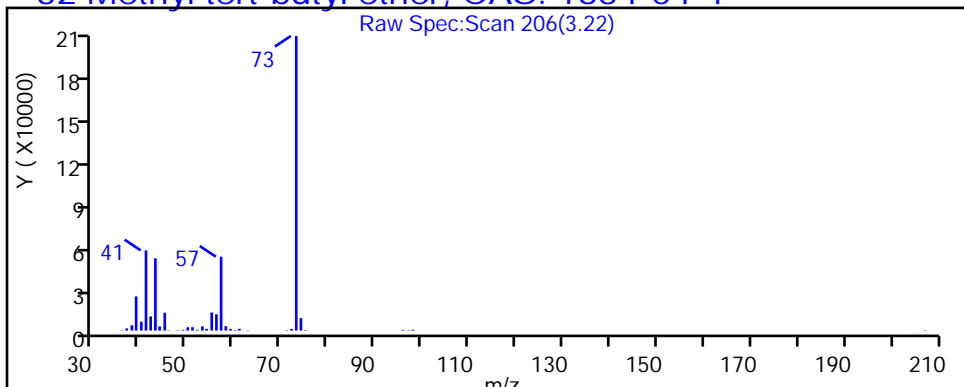
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

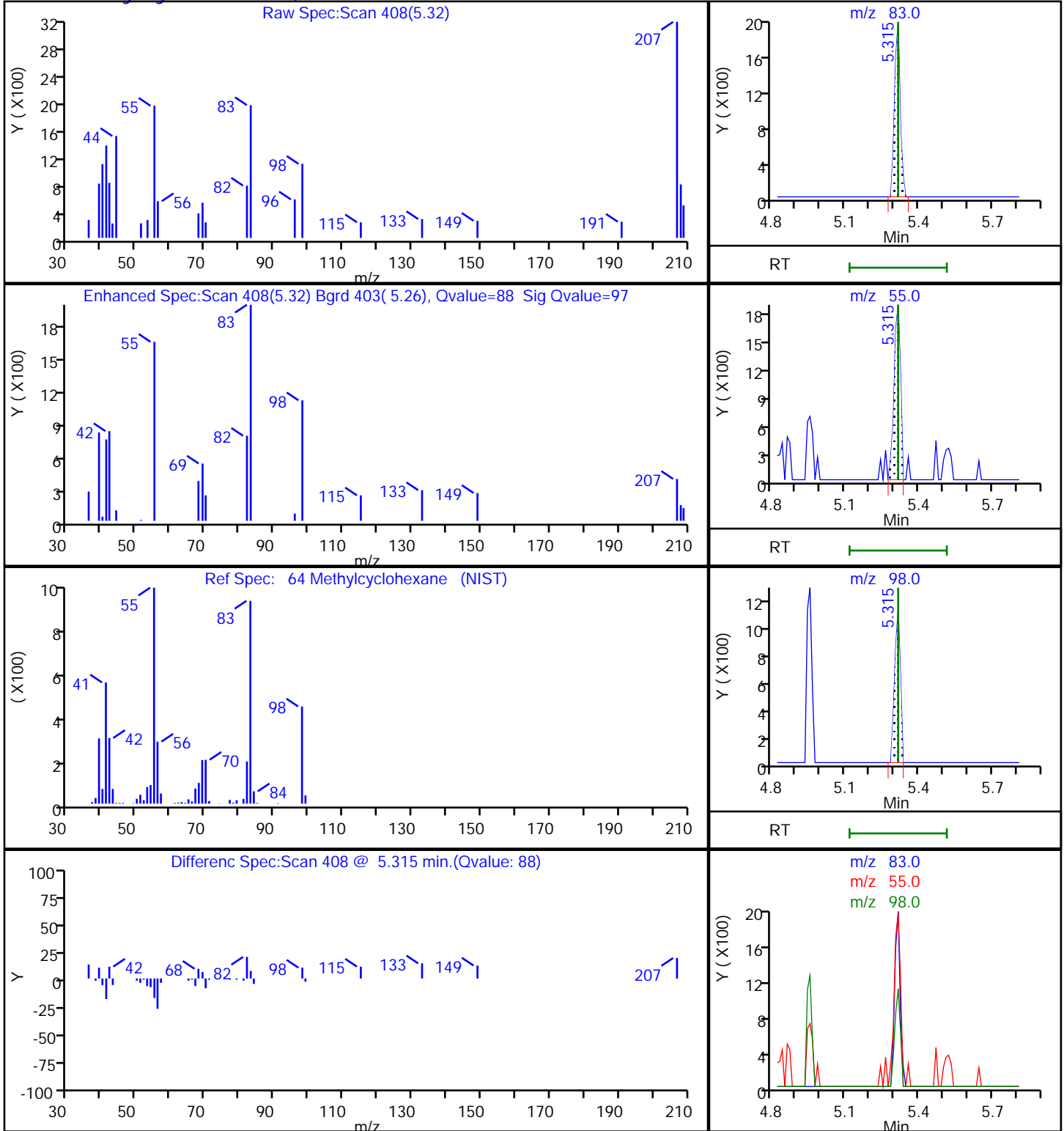
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

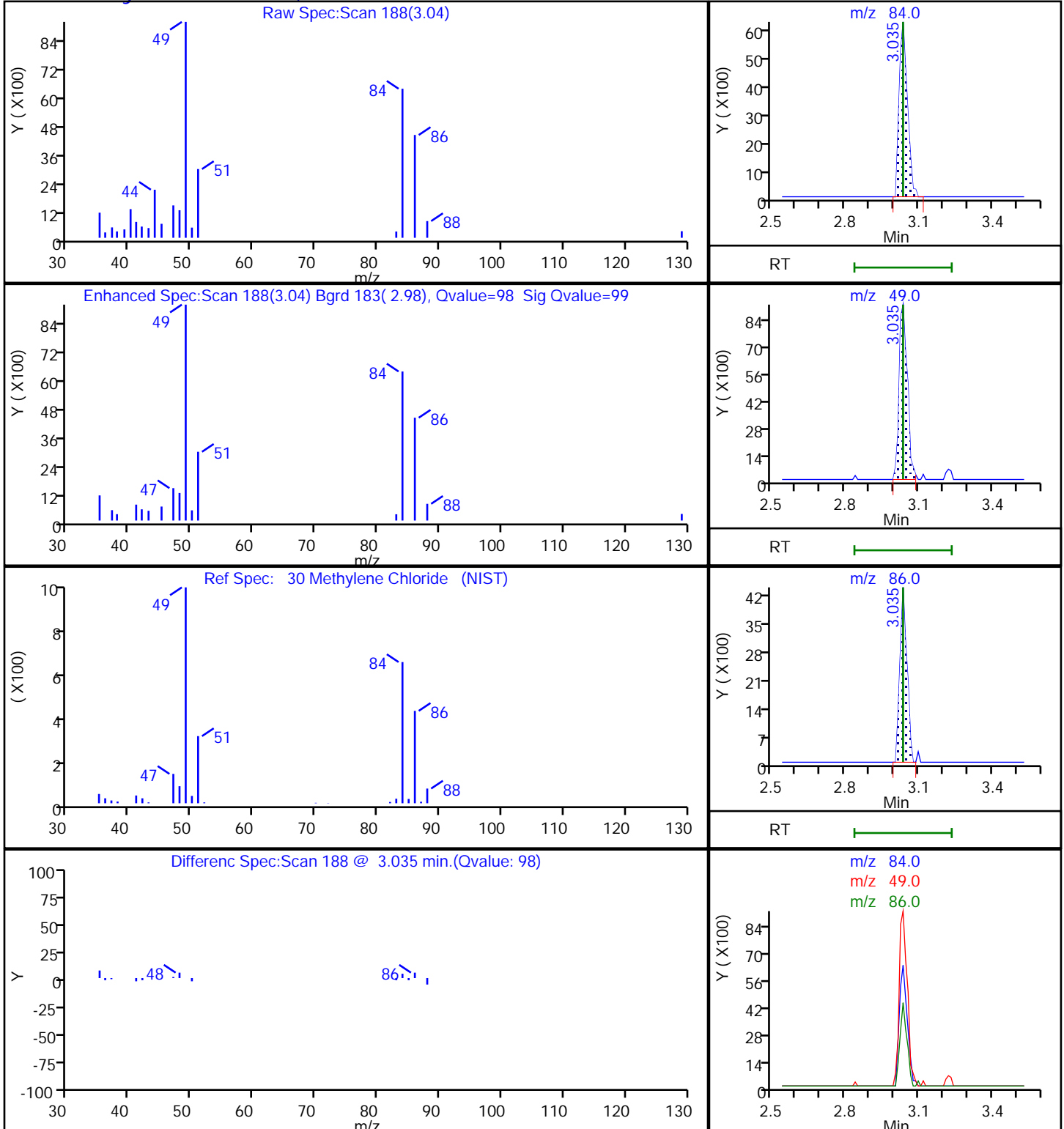
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

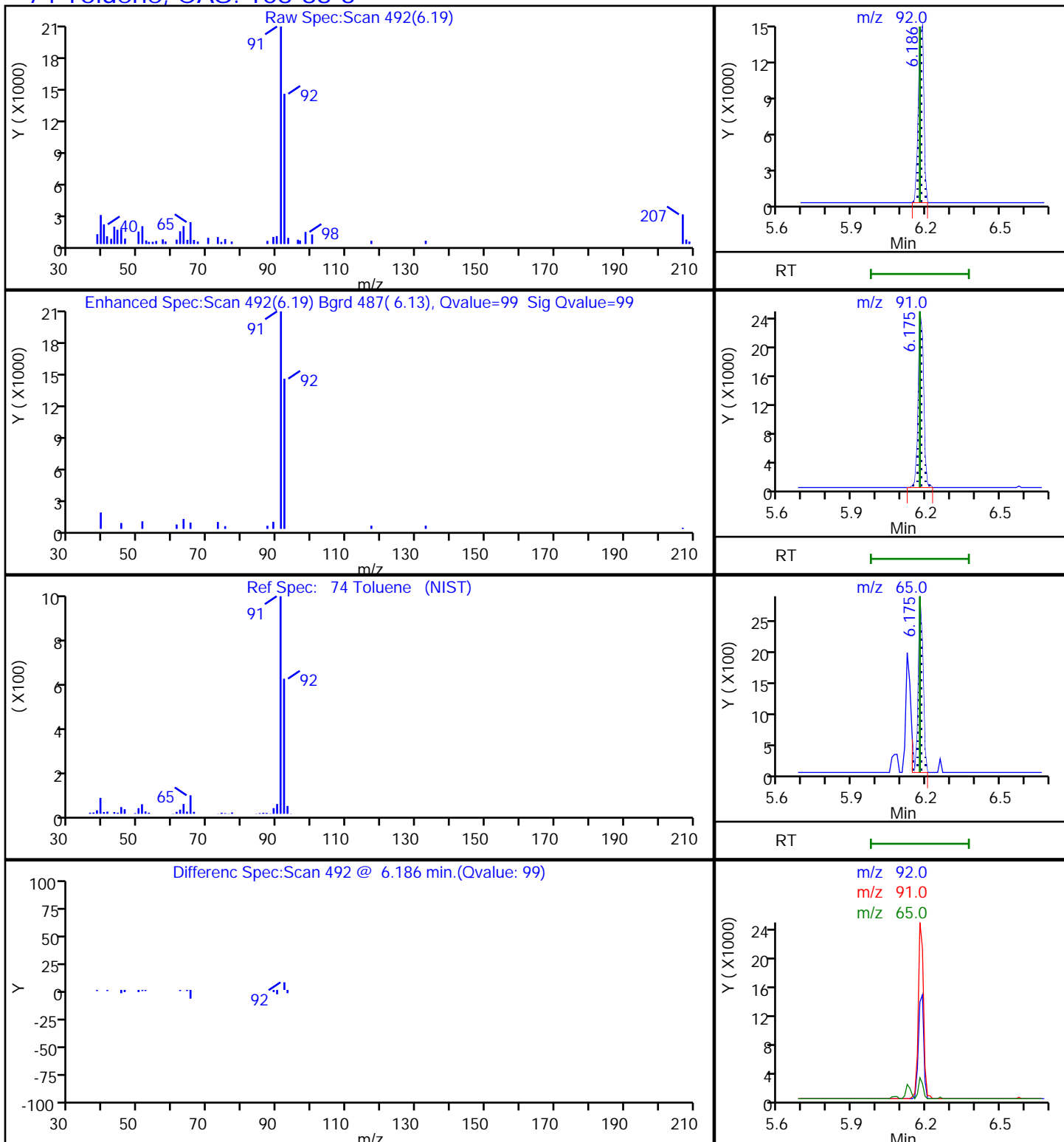
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

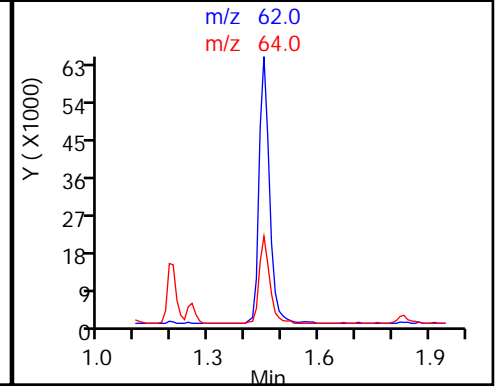
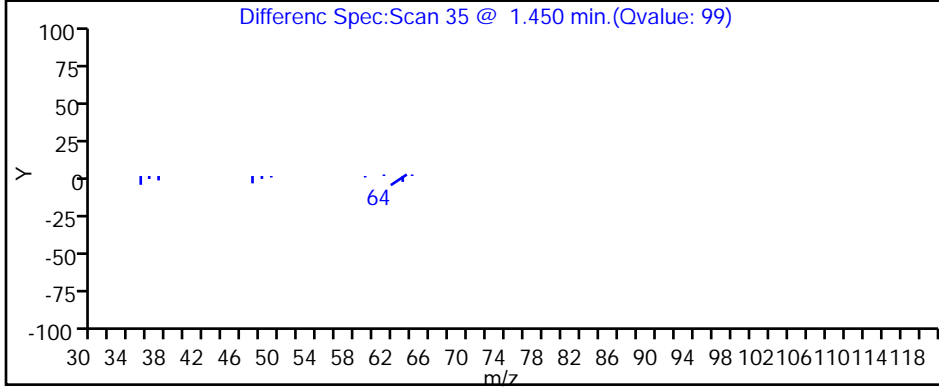
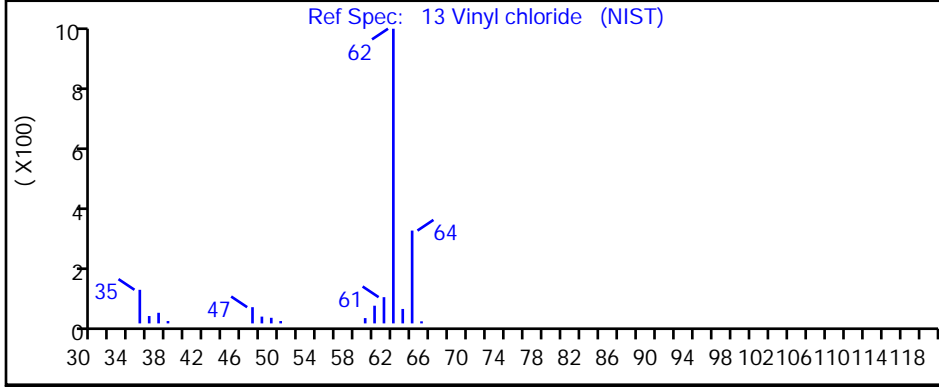
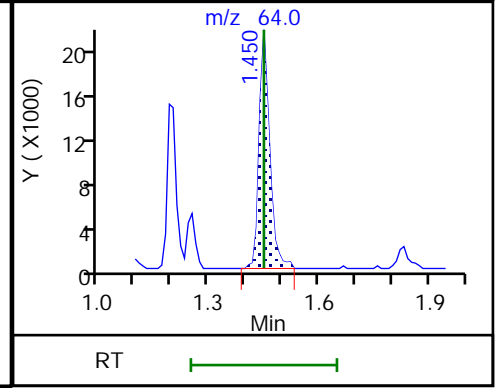
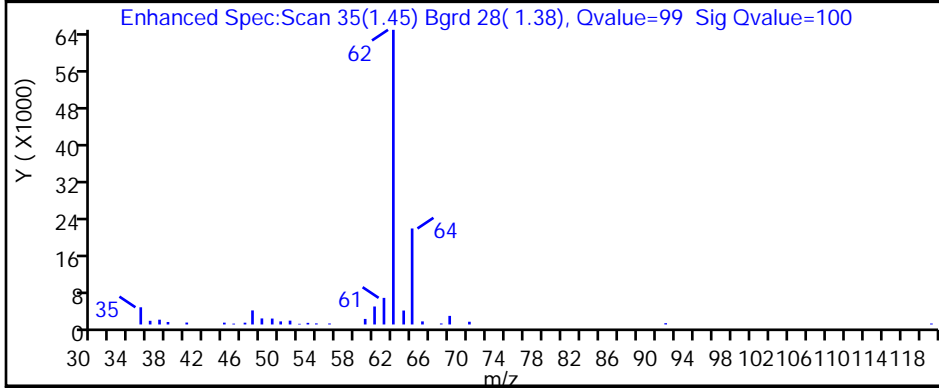
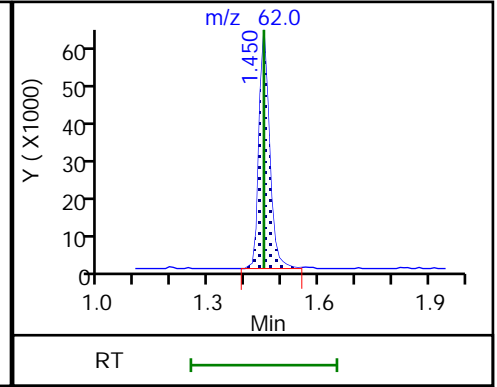
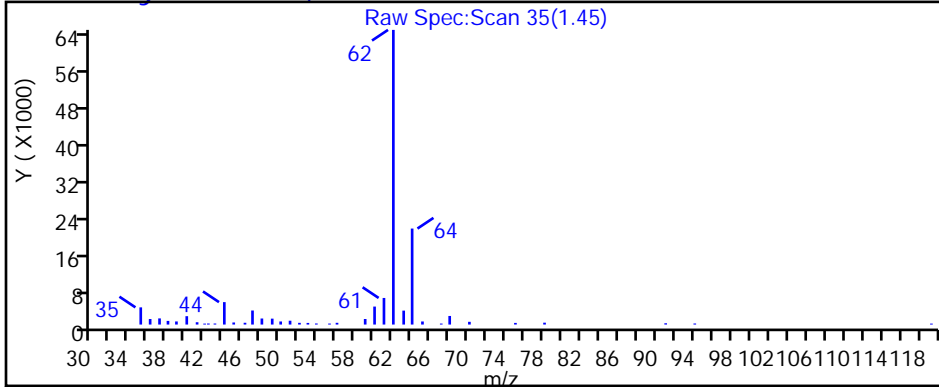
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

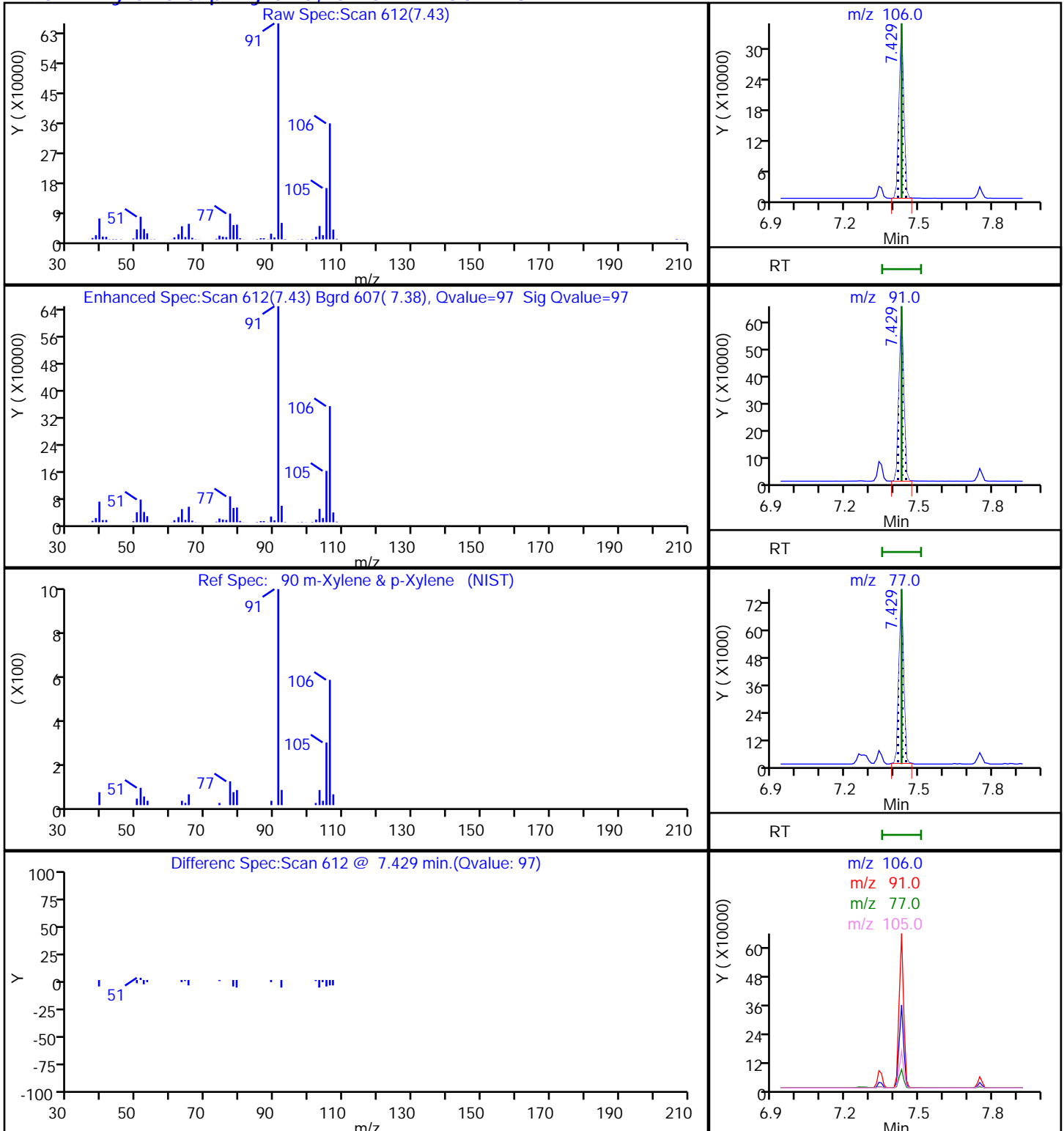
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

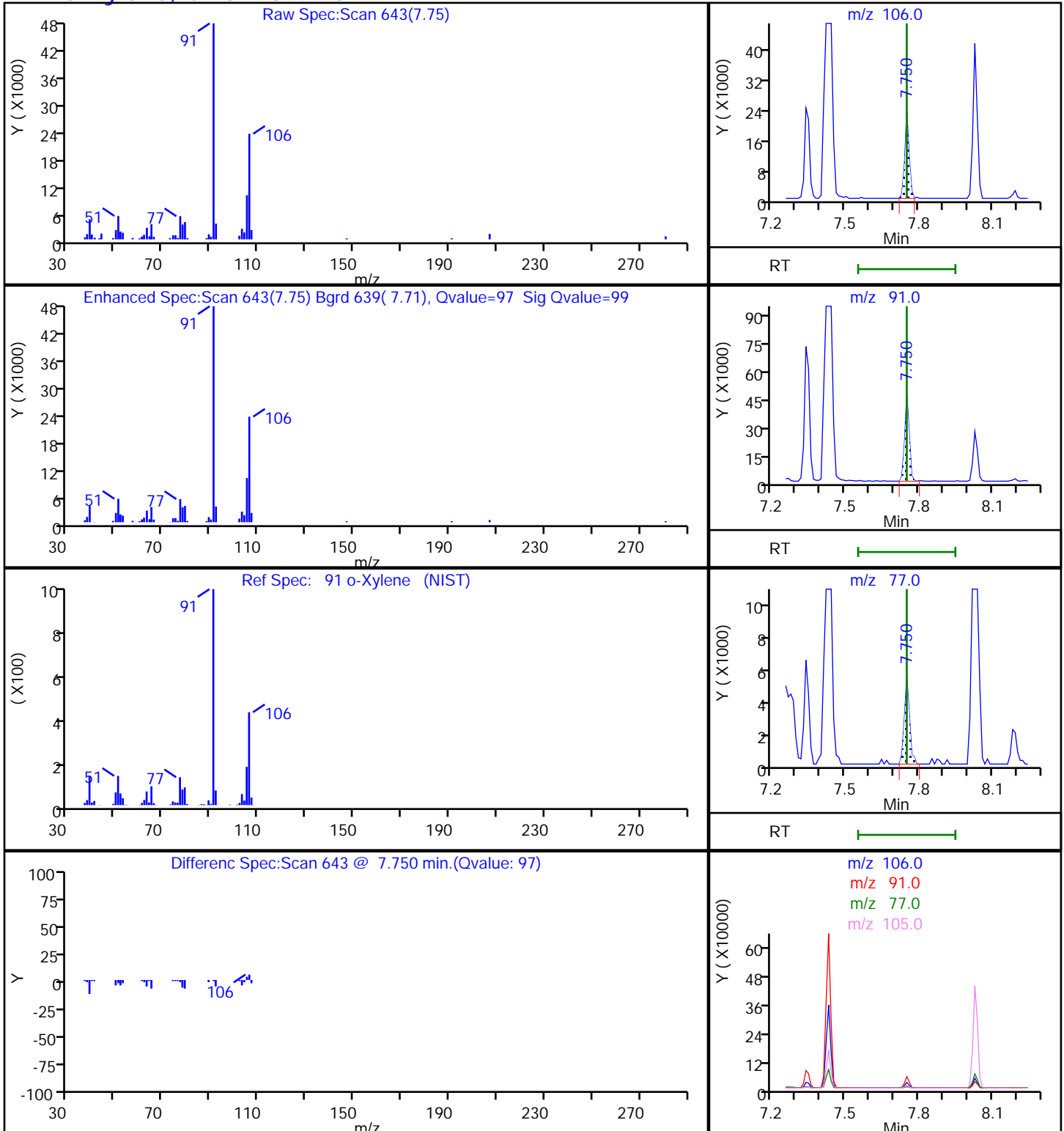
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

Method: C-8260

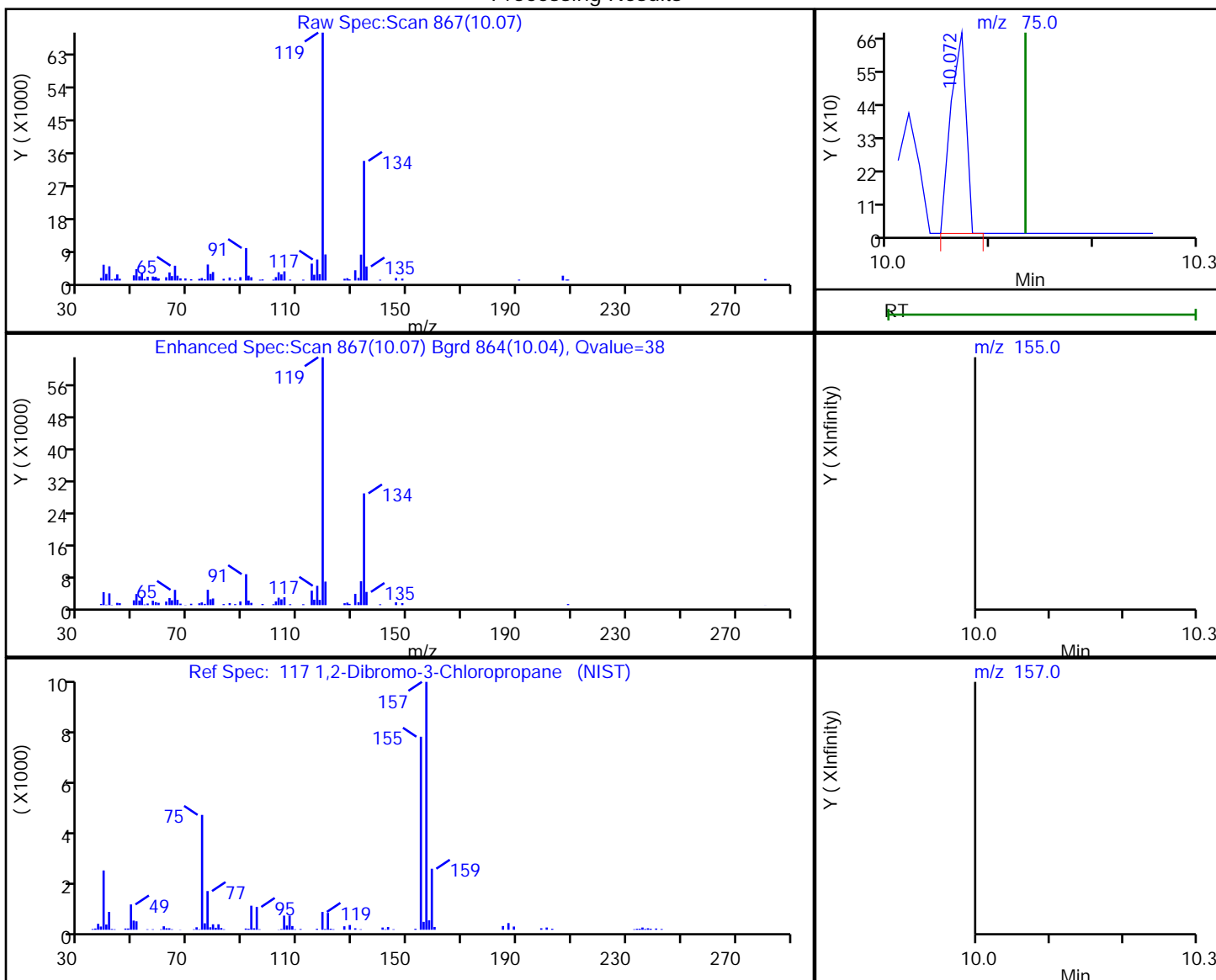
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
10.07	75.00	697	0.228104
10.13	155.00	0	
10.13	157.00	0	

Reviewer: izquierdoo, 02-Mar-2019 12:57:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

Method: C-8260

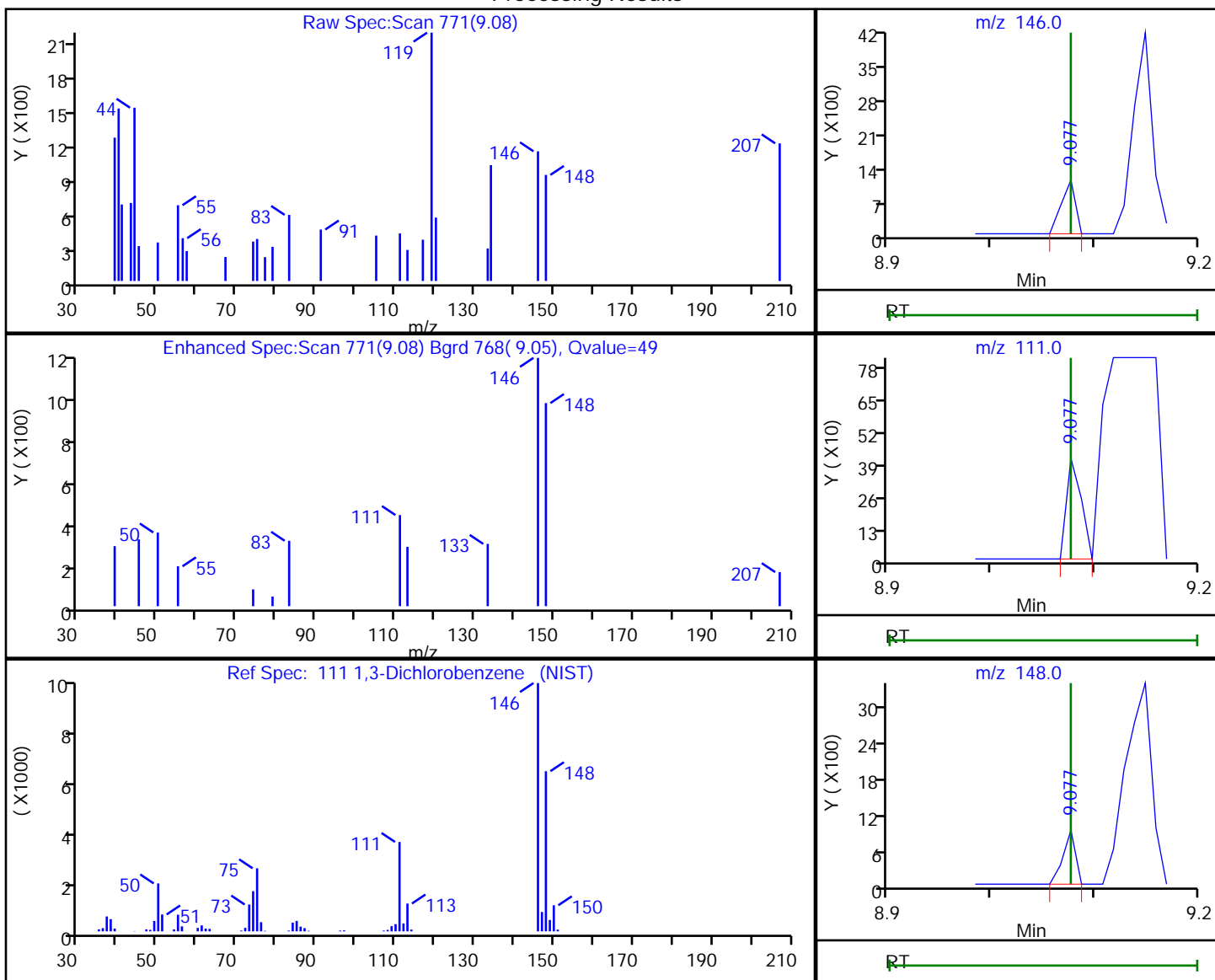
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.08	146.00	1041	0.029944
9.08	111.00	404	
9.08	148.00	760	

Reviewer: izquierdo, 02-Mar-2019 12:57:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

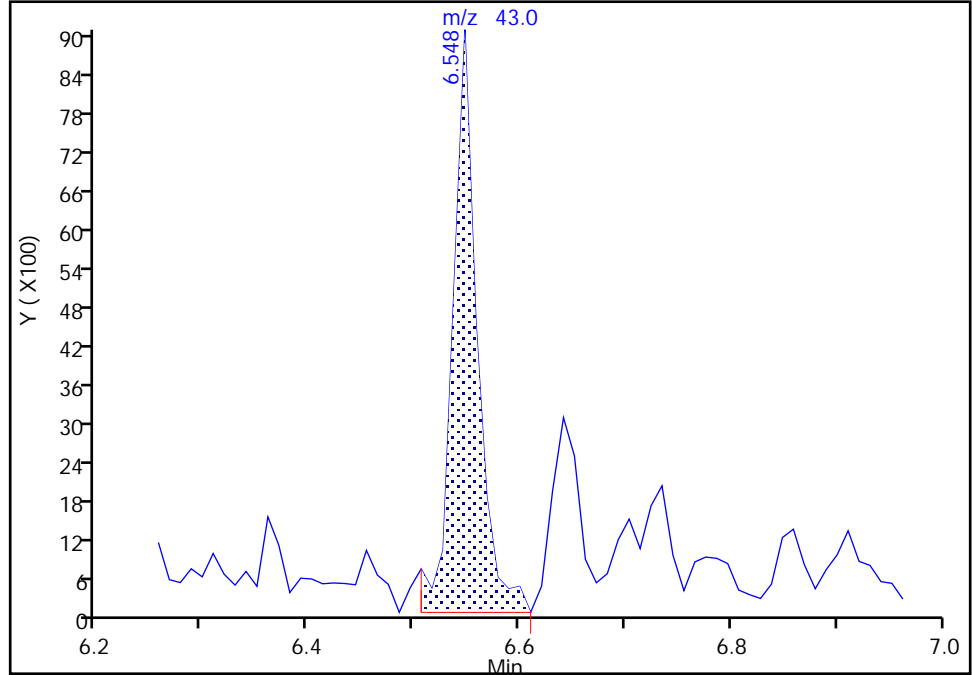
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D
Injection Date: 02-Mar-2019 03:54:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-2 Lab Sample ID: 480-149618-2
Client ID: ML-2S
Operator ID: NC ALS Bottle#: 16 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

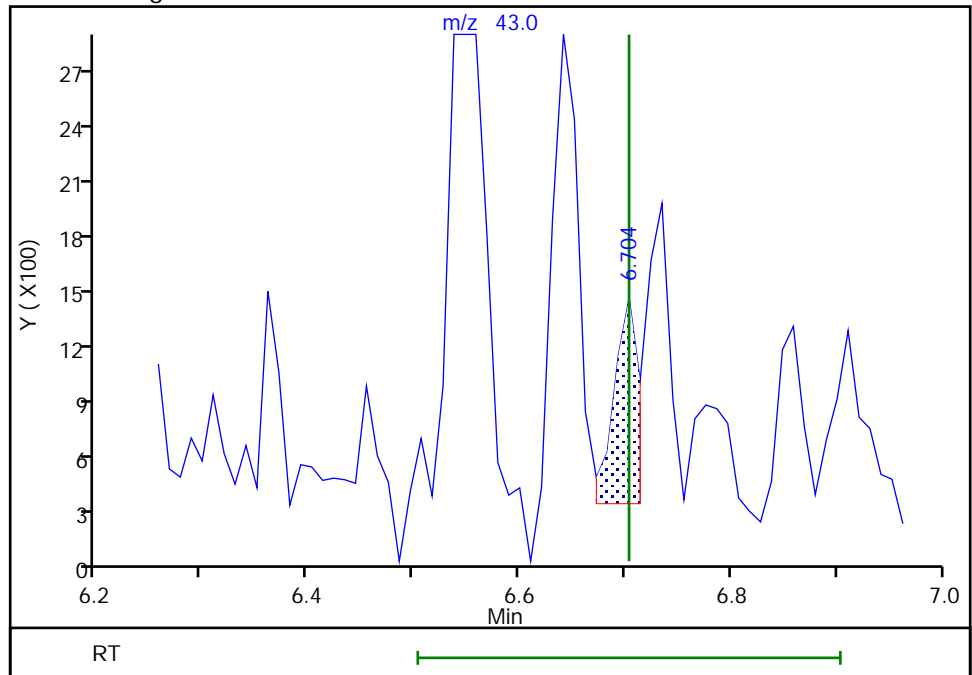
RT: 6.55
Area: 14726
Amount: 1.371374
Amount Units: ug/L

Processing Integration Results



RT: 6.70
Area: 1891
Amount: 0.176101
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 12:58:04
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

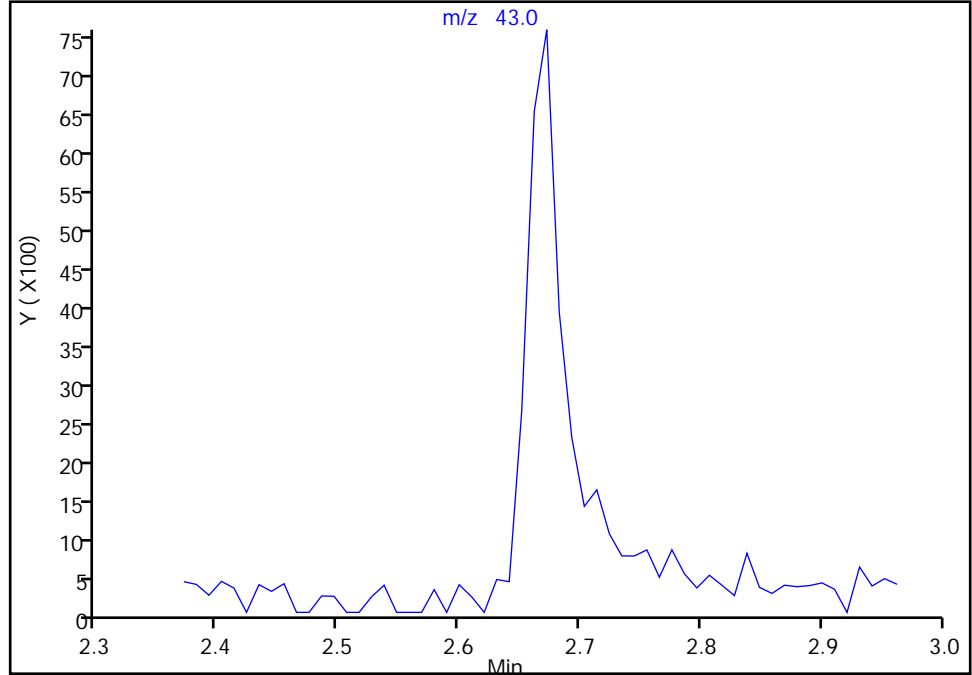
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D	Instrument ID:	HP5973C	Worklist Smp#:	19
Injection Date:	02-Mar-2019 03:54:30	Lab Sample ID:	480-149618-2		
Lims ID:	480-149618-B-2	ALS Bottle#:	16		
Client ID:	ML-2S	Dil. Factor:	4.0000		
Operator ID:	NC	Limit Group:	MV - 8260C ICAL		
Purge Vol:	5.000 mL	Detector:	MS SCAN		
Method:	C-8260				
Column:	ZB-624 (0.25 mm)				

23 Acetone, CAS: 67-64-1

Signal: 1

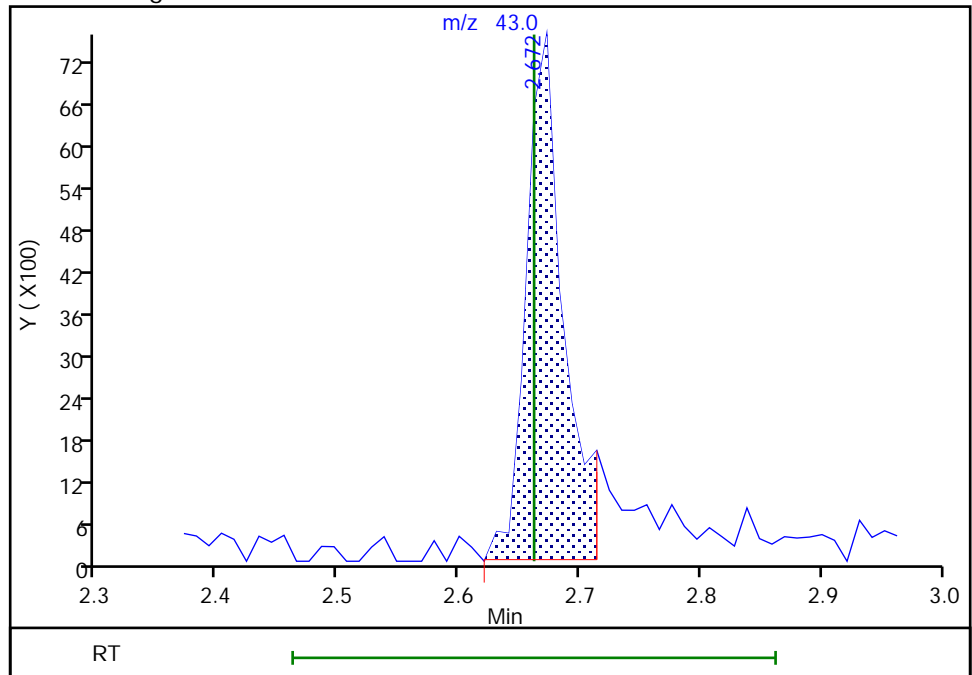
Not Detected
Expected RT: 2.66

Processing Integration Results



Manual Integration Results

RT: 2.67
Area: 16354
Amount: 3.026311
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:00:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

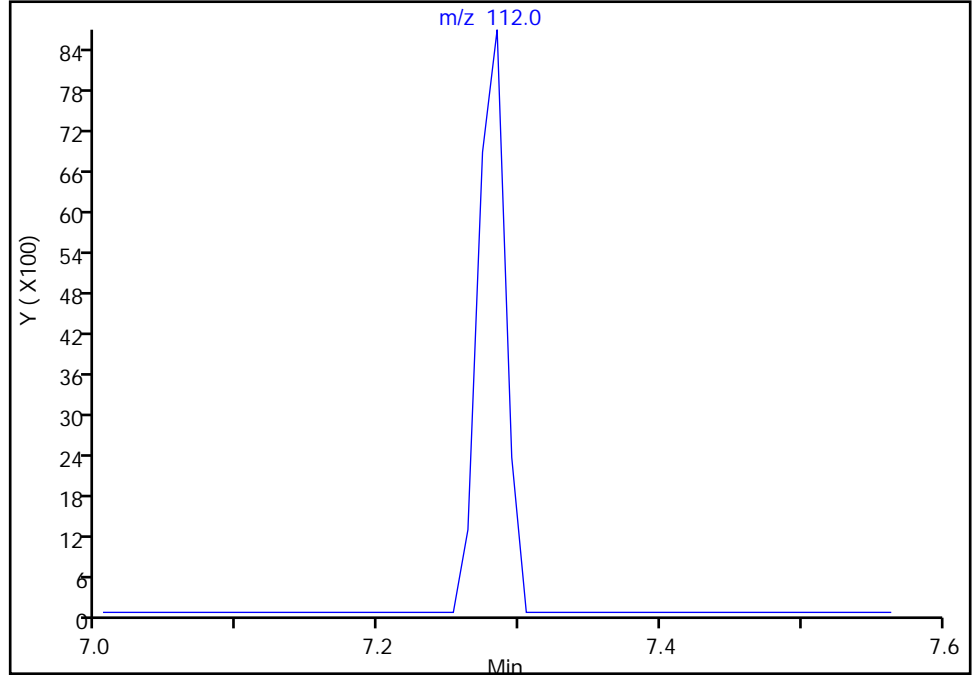
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D				
Injection Date:	02-Mar-2019 03:54:30	Instrument ID:	HP5973C		
Lims ID:	480-149618-B-2	Lab Sample ID:	480-149618-2		
Client ID:	ML-2S				
Operator ID:	NC	ALS Bottle#:	16	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7

Signal: 1

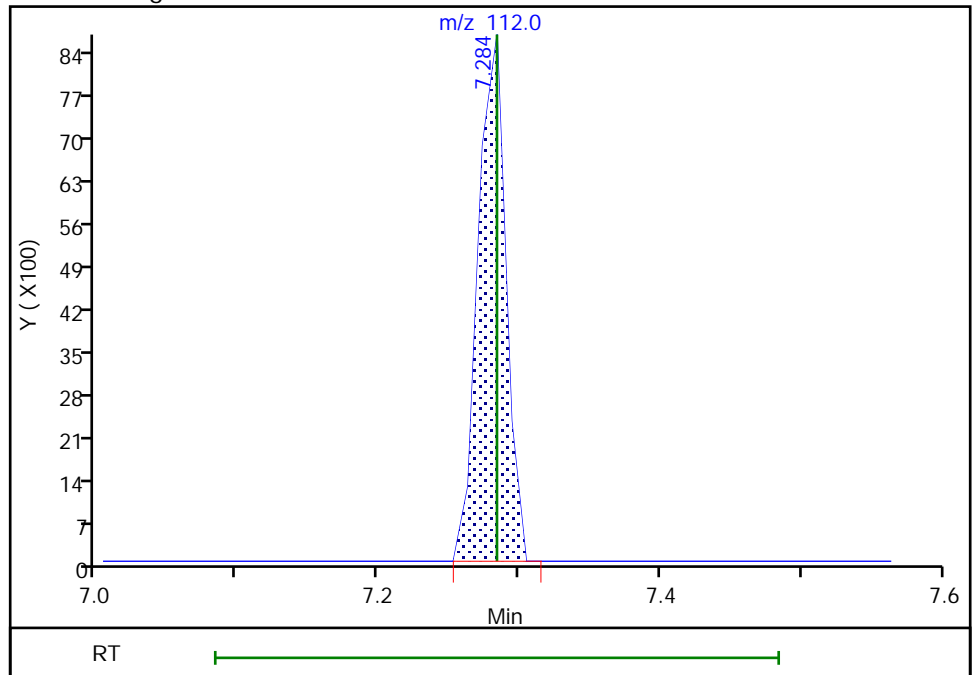
Not Detected
Expected RT: 7.28

Processing Integration Results



RT: 7.28
Area: 11758
Amount: 0.312448
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

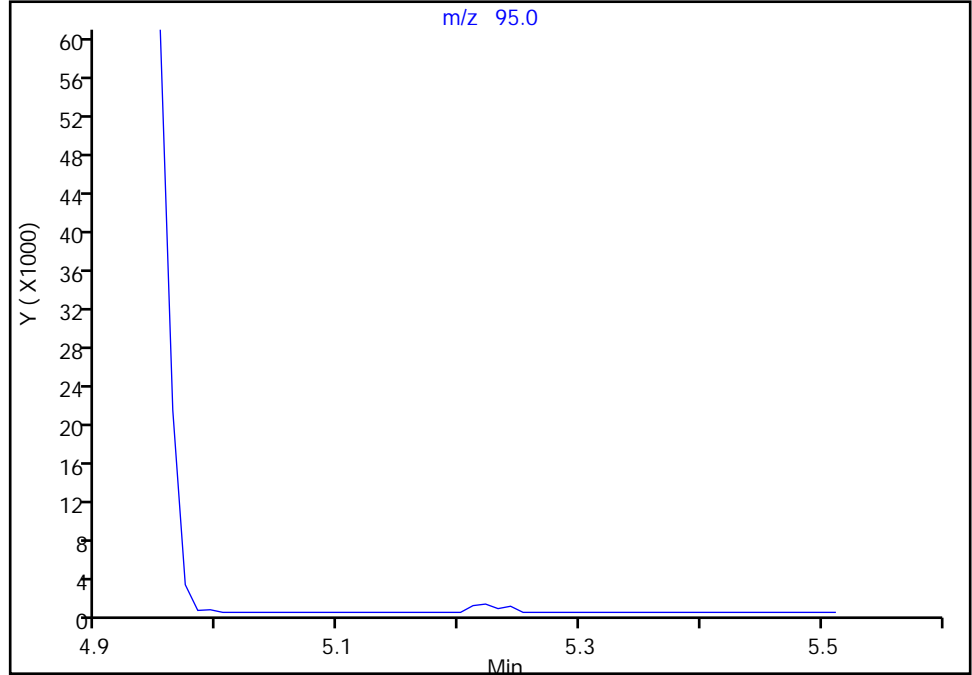
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D	Instrument ID:	HP5973C	Worklist Smp#:	19
Injection Date:	02-Mar-2019 03:54:30	Lab Sample ID:	480-149618-2		
Lims ID:	480-149618-B-2	ALS Bottle#:	16		
Client ID:	ML-2S	Dil. Factor:	4.0000		
Operator ID:	NC	Limit Group:	MV - 8260C ICAL		
Purge Vol:	5.000 mL	Detector:	MS SCAN		
Method:	C-8260				
Column:	ZB-624 (0.25 mm)				

62 Trichloroethene, CAS: 79-01-6

Signal: 1

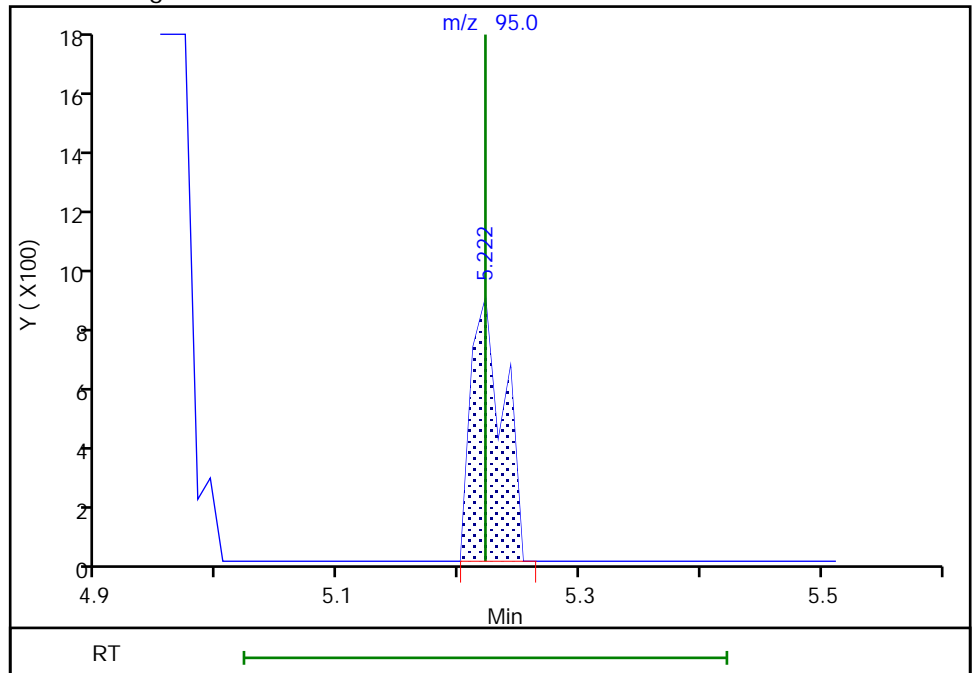
Not Detected
Expected RT: 5.22

Processing Integration Results



Manual Integration Results

RT: 5.22
Area: 1602
Amount: 0.124926
Amount Units: ug/L



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5015.D

Injection Date: 02-Mar-2019 03:54:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-2

Lab Sample ID: 480-149618-2

Client ID: ML-2S

Operator ID: NC

ALS Bottle#: 16 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

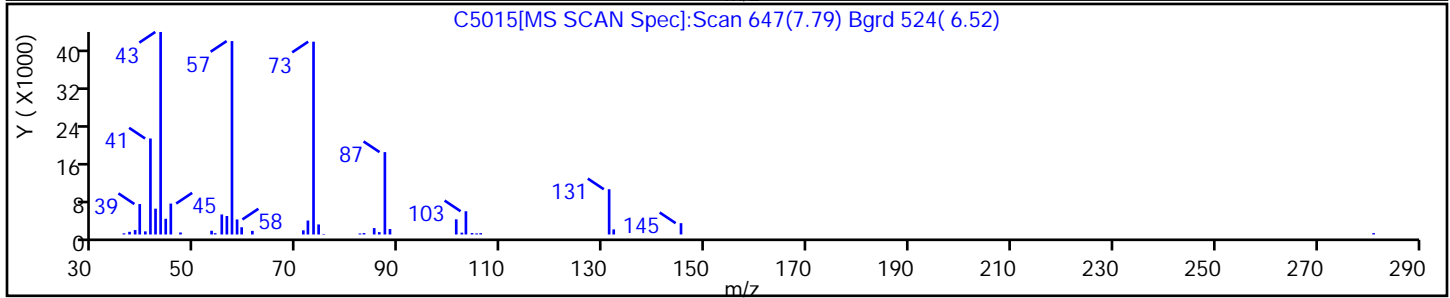
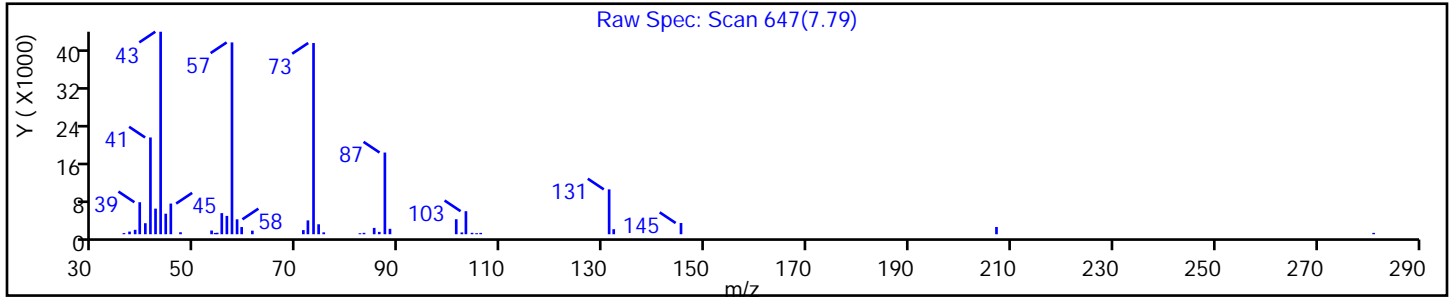
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-149618-3
 Matrix: Water Lab File ID: C4991.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	8.4		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	12	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	83		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	22		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	3.4	J	5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	53		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	2.0	J	5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	11		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	28		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-149618-3
 Matrix: Water Lab File ID: C4991.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	13	6.5
1634-04-4	Methyl tert-butyl ether	41		5.0	0.80
108-87-2	Methylcyclohexane	2.4	J	5.0	0.80
75-09-2	Methylene Chloride	6.2		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	12		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	45		5.0	4.5
1330-20-7	Xylenes, Total	73		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-149618-3
 Matrix: Water Lab File ID: C4991.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 4 TIC Result Total: 82

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1000221-95-9	Ethene, ethyloxy-	2.33	14	T J N	86%
	Unknown	7.79	13	T J	
526-73-8	Benzene, 1,2,3-trimethyl-	8.81	41	T J N	97%
	Unknown	9.34	14	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D
 Lims ID: 480-149618-A-3
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 01-Mar-2019 16:39:30 ALS Bottle#: 18 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-A-3
 Misc. Info.: 480-0079046-020
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:47:55 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln Date: 01-Mar-2019 17:47:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	202552	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	85	440285	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.128	0.000	95	485969	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.475	0.000	94	312610	27.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.001	95	189665	26.7	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	93	1133912	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	381849	27.5	
10 Dichlorodifluoromethane	85		1.180				ND	U
12 Chloromethane	50		1.356				ND	U
13 Vinyl chloride	62	1.449	1.449	0.000	97	126996	9.04	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.822	0.011	60	6079	0.6856	
17 Trichlorofluoromethane	101		2.050				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.527				ND	
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43	2.672	2.672	0.000	98	13711	2.58	M
26 Carbon disulfide	76		2.734				ND	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.035	0.000	98	16580	1.24	
32 Methyl tert-butyl ether	73	3.222	3.221	0.001	99	296558	8.15	
34 trans-1,2-Dichloroethene	96		3.232				ND	Ua
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	38331	1.67	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	161690	10.7	
43 2-Butanone (MEK)	43	4.123	4.123	-0.011	98	17589	2.45	
50 Chloroform	83	4.341	4.351	-0.010	38	2579	0.1118	
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56	4.444	4.444	0.000	84	7686	0.4034	
55 Carbon tetrachloride	117		4.548				ND	
57 Benzene	78	4.735	4.734	0.001	69	210179	4.43	
58 1,2-Dichloroethane	62		4.786				ND	U
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.305	5.315	-0.010	94	7955	0.4730	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	U
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	274363	16.6	
74 Toluene	92	6.185	6.175	0.010	99	76918	2.46	
77 trans-1,3-Dichloropropene	75		6.393				ND	U
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.589				ND	
80 2-Hexanone	43		6.703				ND	U
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.931				ND	
87 Chlorobenzene	112	7.284	7.284	0.000	94	9698	0.2660	
88 Ethylbenzene	91	7.346	7.346	0.010	98	128573	2.16	
90 m-Xylene & p-Xylene	106	7.429	7.432	0.000	97	311721	13.0	
91 o-Xylene	106	7.750	7.750	0.000	96	38804	1.53	
92 Styrene	104		7.771				ND	U
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	375230	5.64	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	U
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	38	3653	0.1045	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	89	5002	0.1457	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	Ua
S 124 Xylenes, Total	1				0		14.5	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D
 Lims ID: 480-149618-A-3
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 01-Mar-2019 16:39:30 ALS Bottle#: 18 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-A-3
 Misc. Info.: 480-0079046-020
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:47:55 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326
 First Level Reviewer: carrolln Date: 01-Mar-2019 17:47:55

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.330	267303	2.86	153	86	1097	C4H10O	74	
						1000221-95-9 Ethene, ethyloxy-		
						Unknown		
7.792	286738	2.57	2					
						526-73-8 Benzene, 1,2,3-trimethyl-		
8.807	1274809	8.27	3	97	119303	C9H12	120	
						Unknown		
9.336	421497	2.73	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.952	2333034	25.0
* 2 Chlorobenzene-d5	7.263	2789504	25.0
* 3 1,4-Dichlorobenzene-d4	9.128	3853919	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Worklist Smp#: 20

Client ID: ML-2I

Purge Vol: 5.000 mL

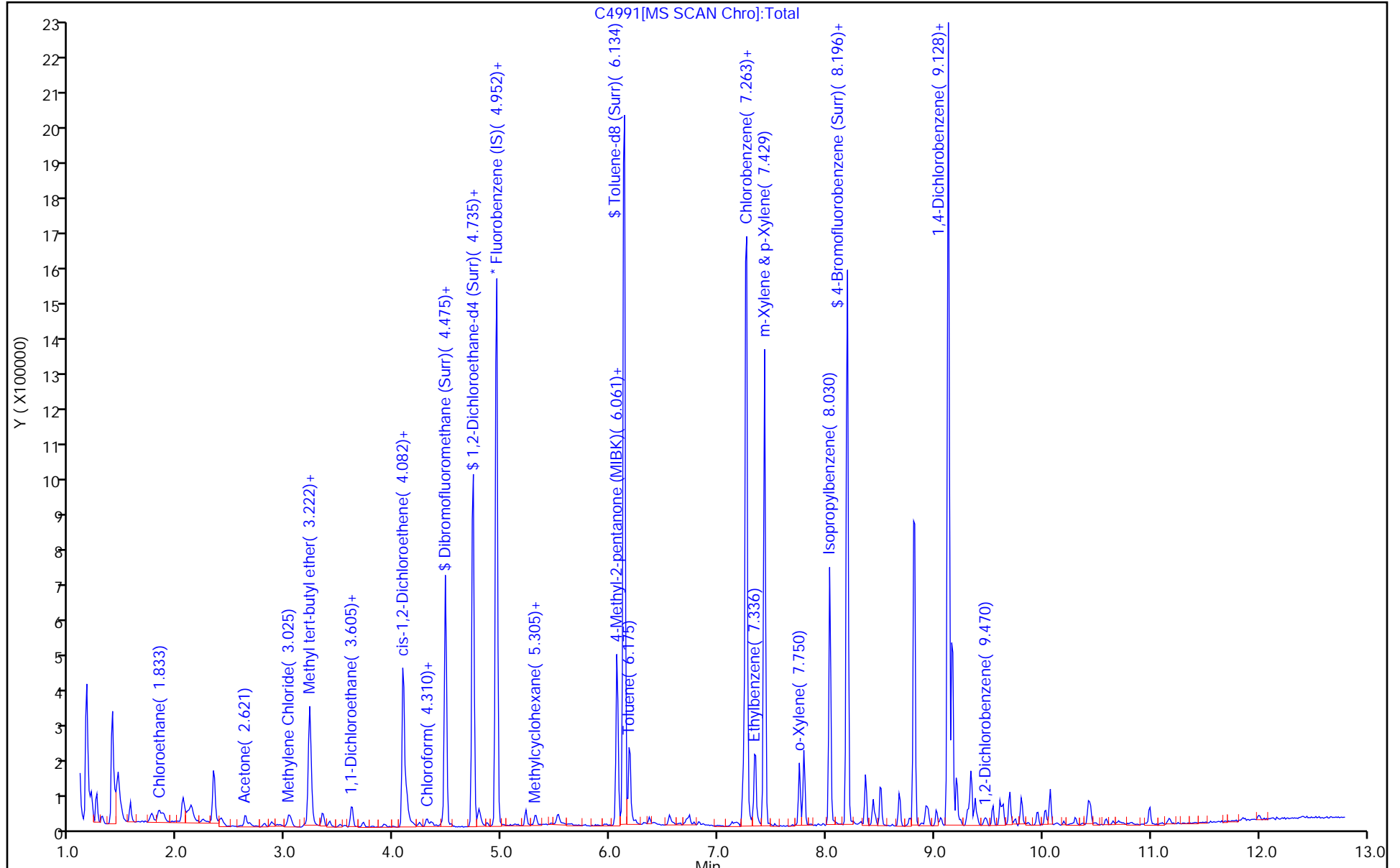
Dil. Factor: 5.0000

ALS Bottle#: 18

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

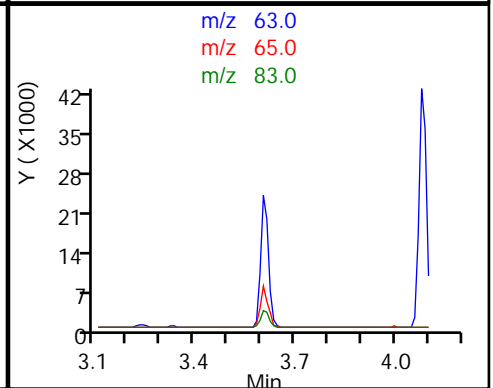
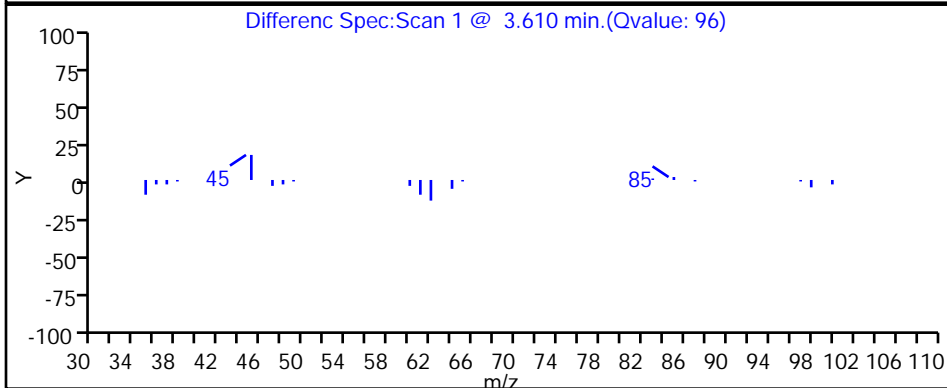
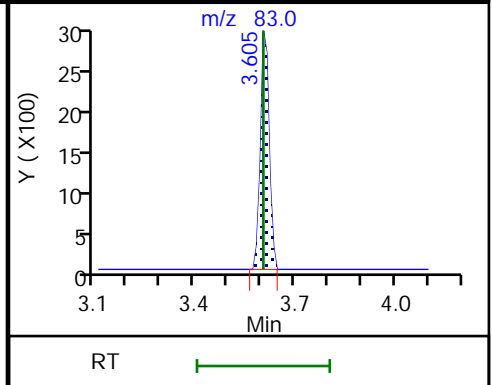
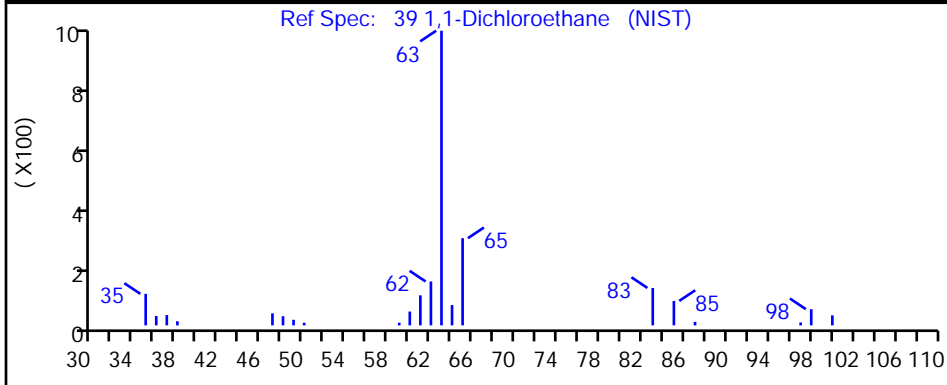
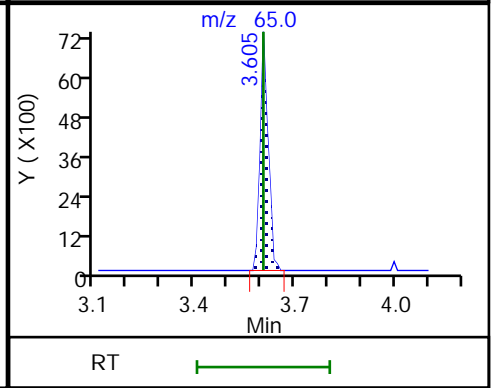
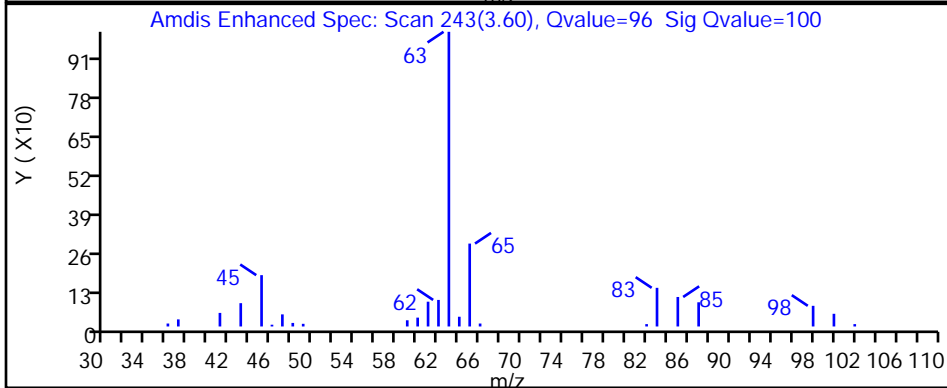
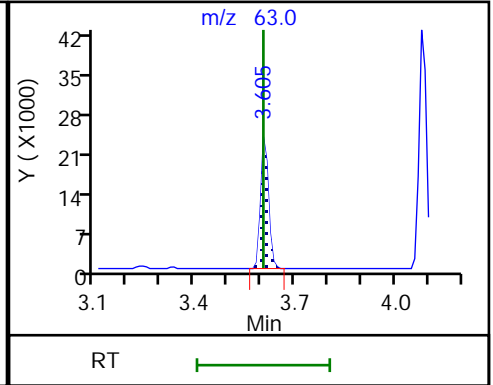
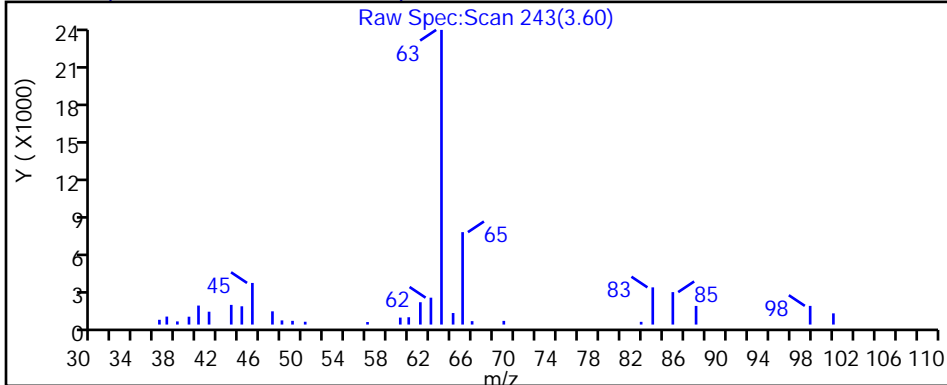
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

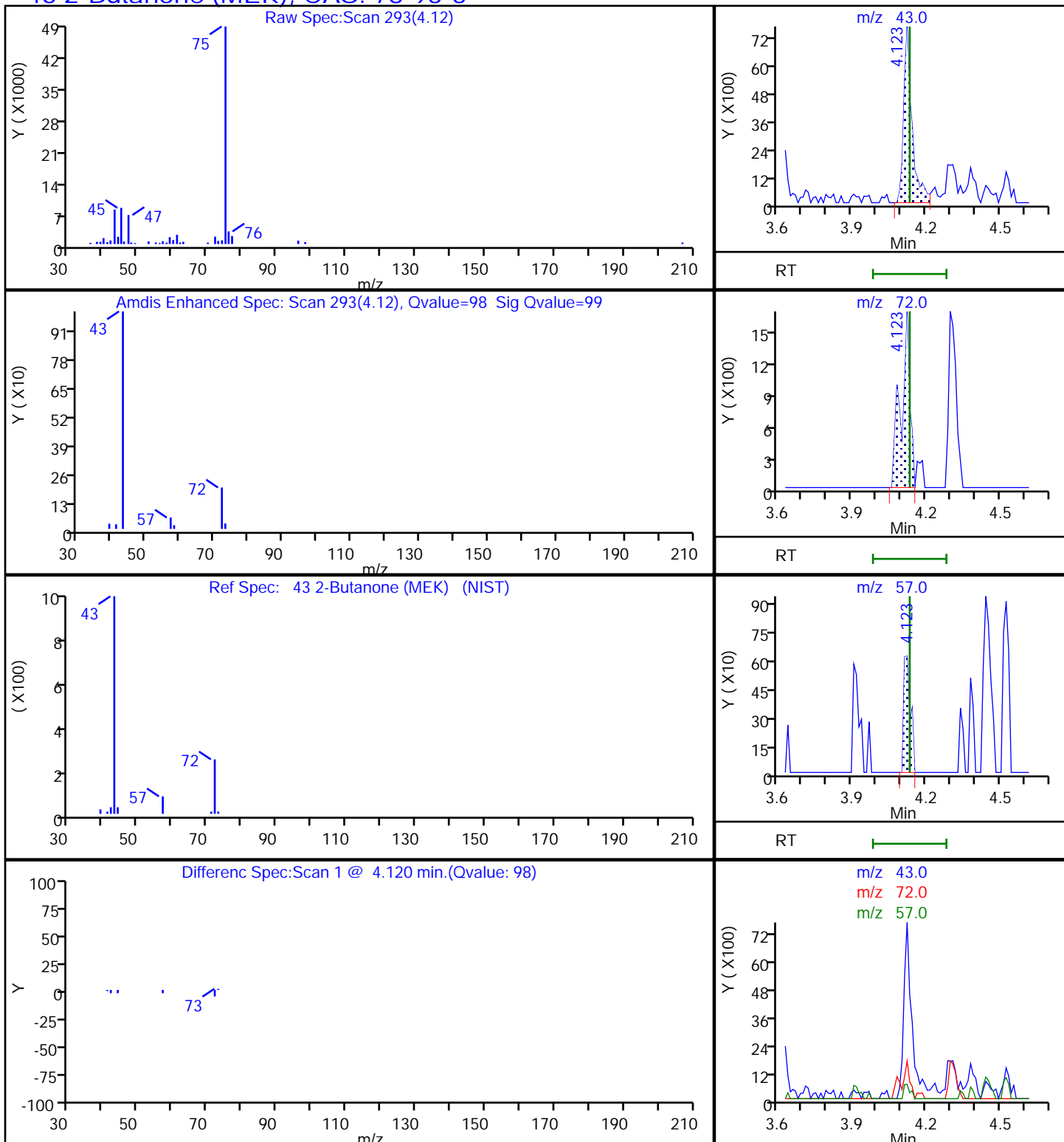
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

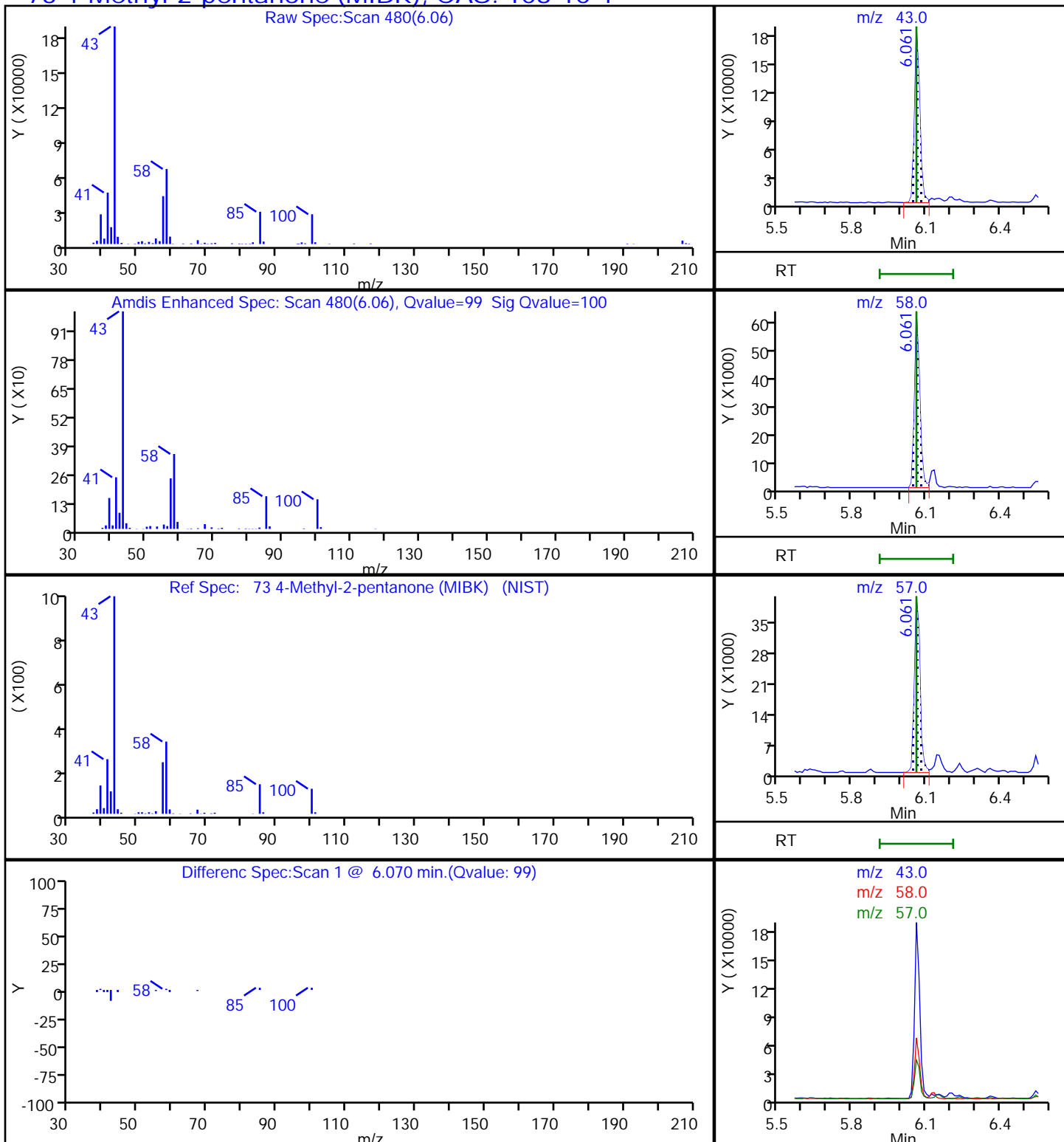
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

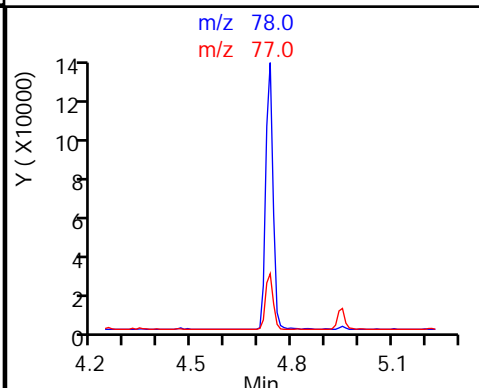
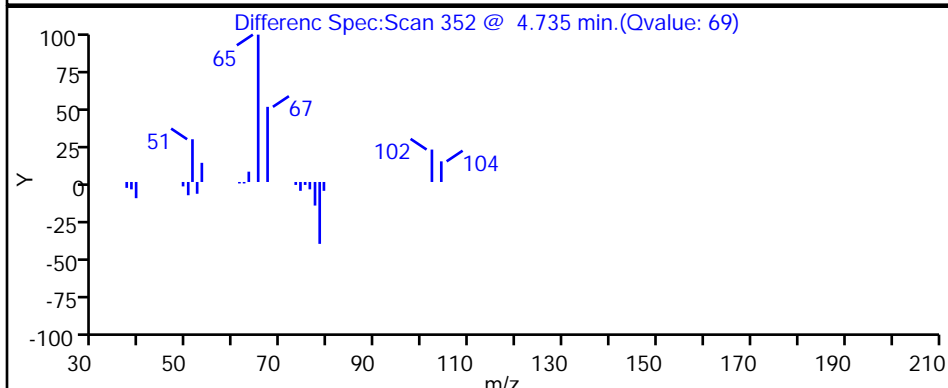
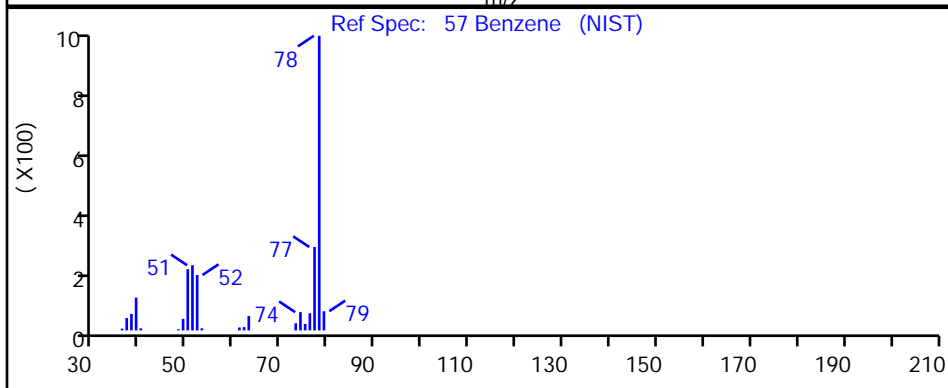
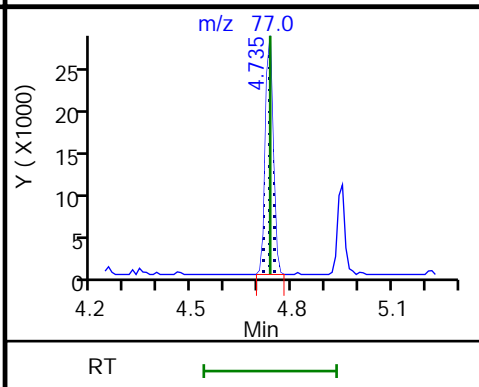
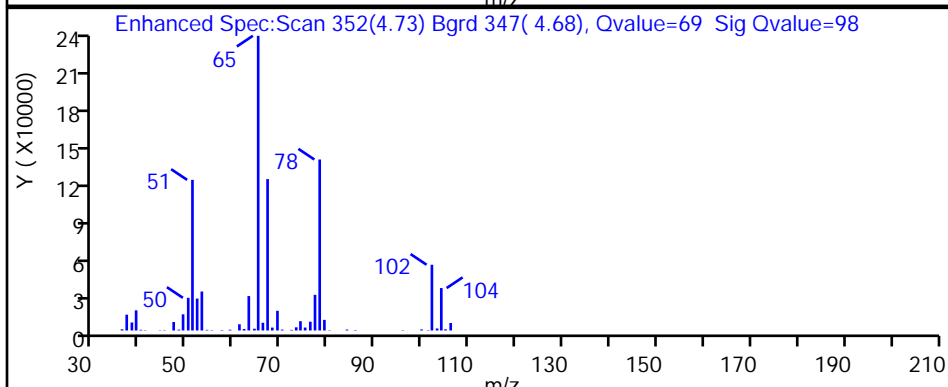
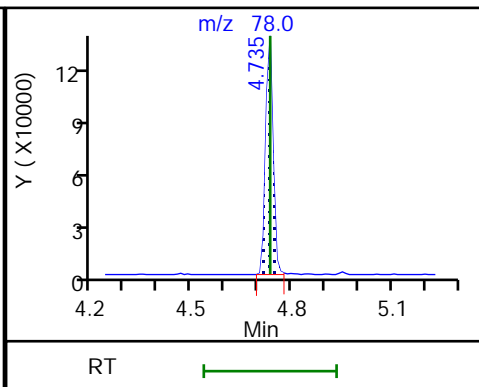
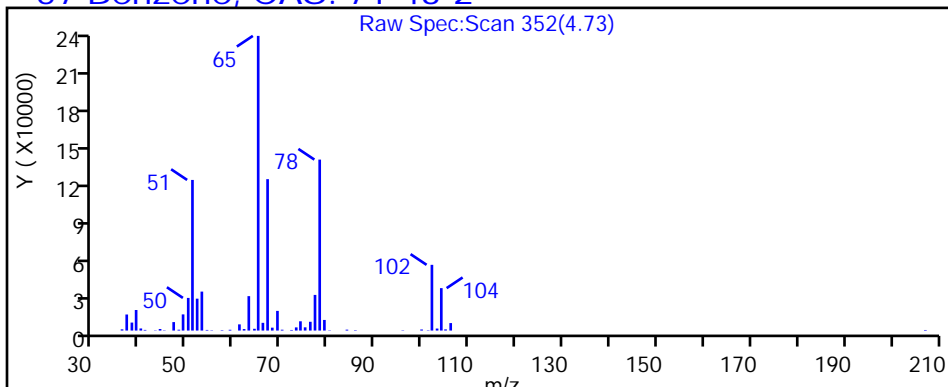
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

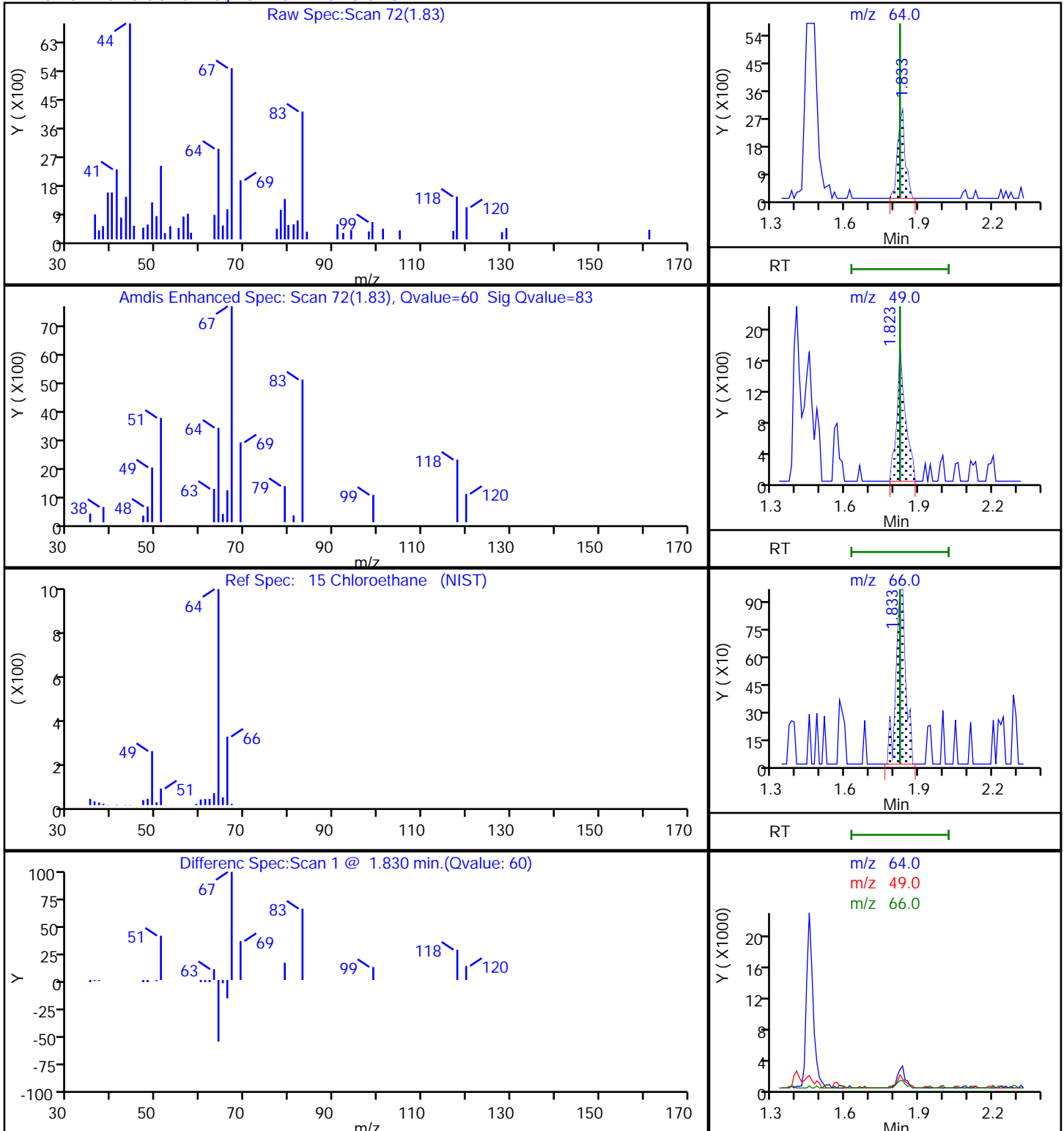
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-21

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

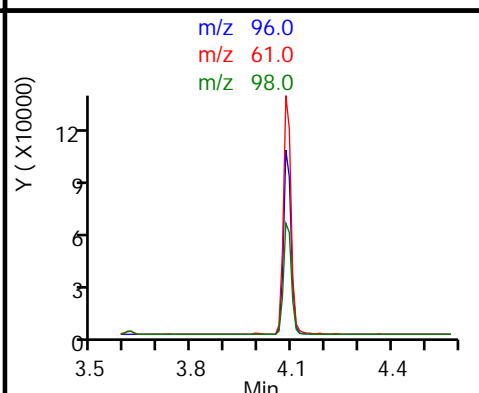
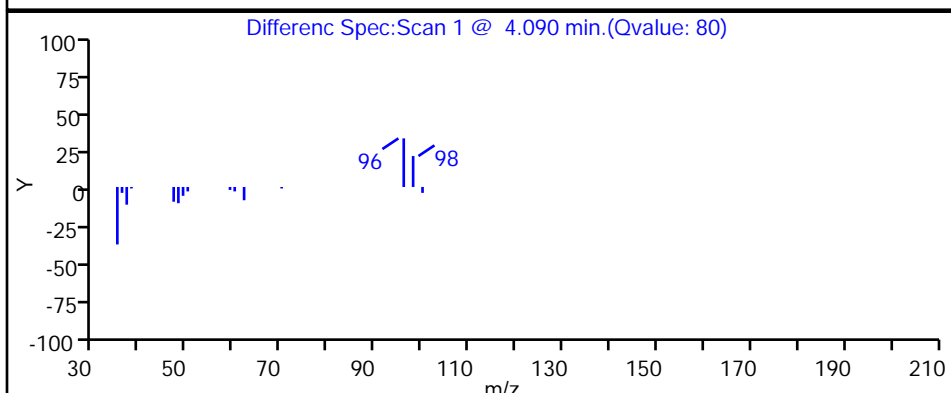
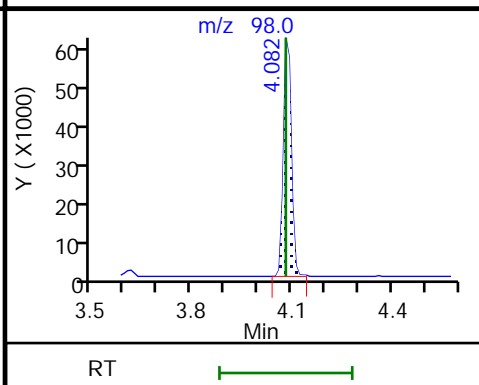
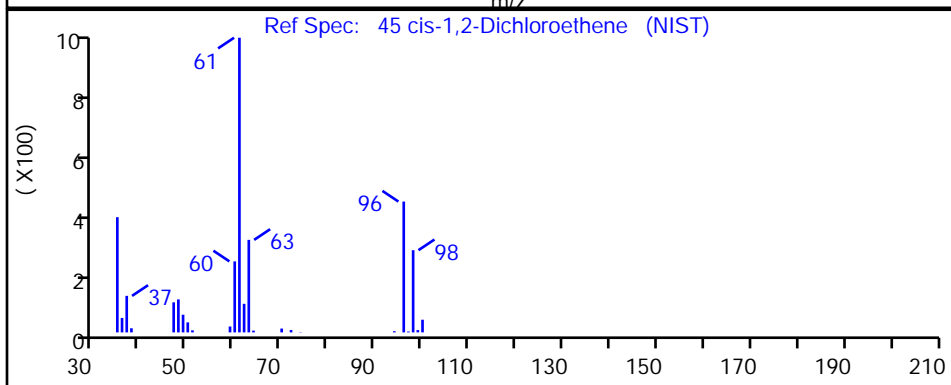
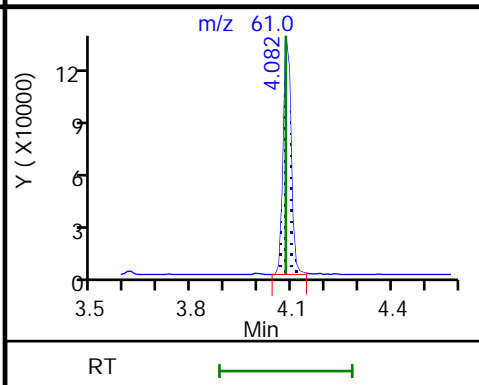
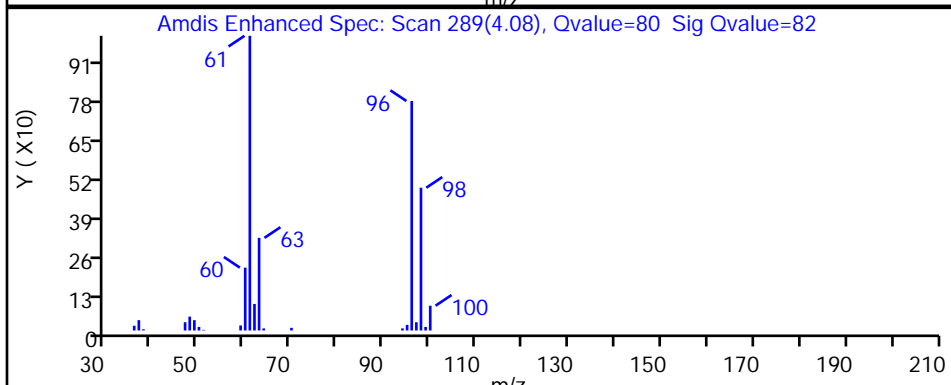
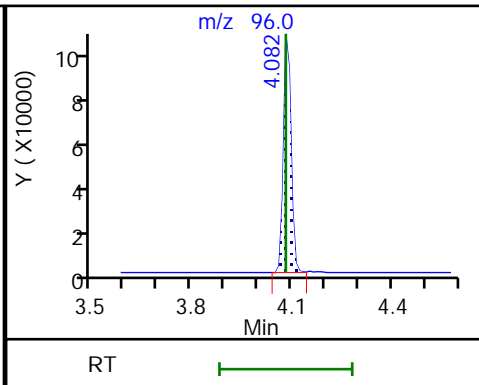
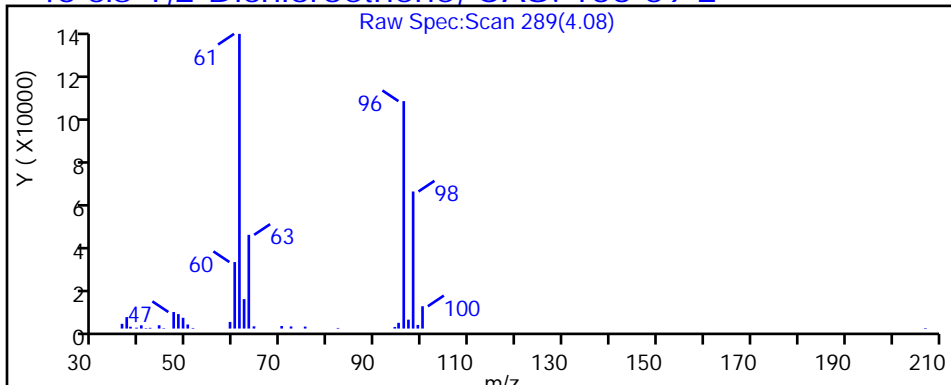
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

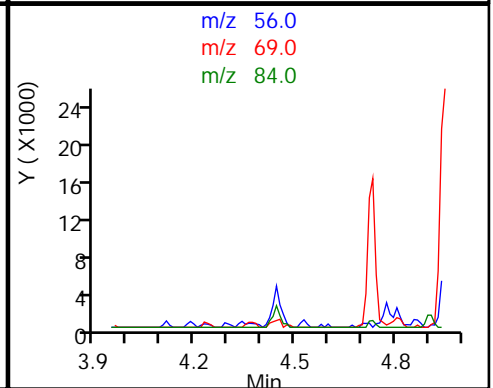
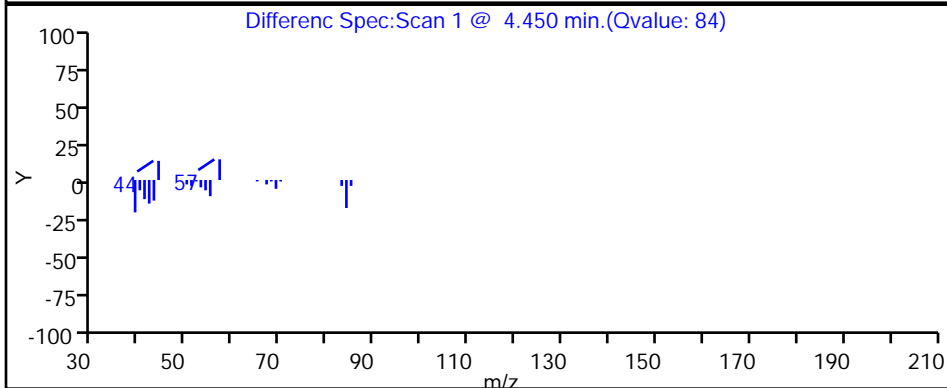
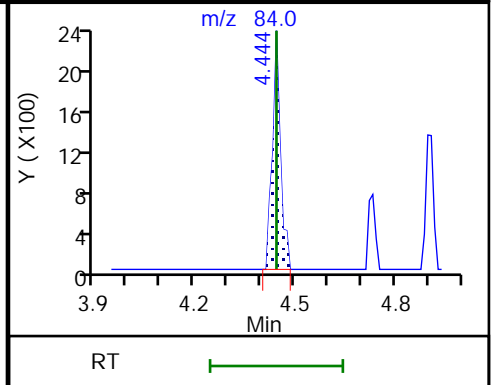
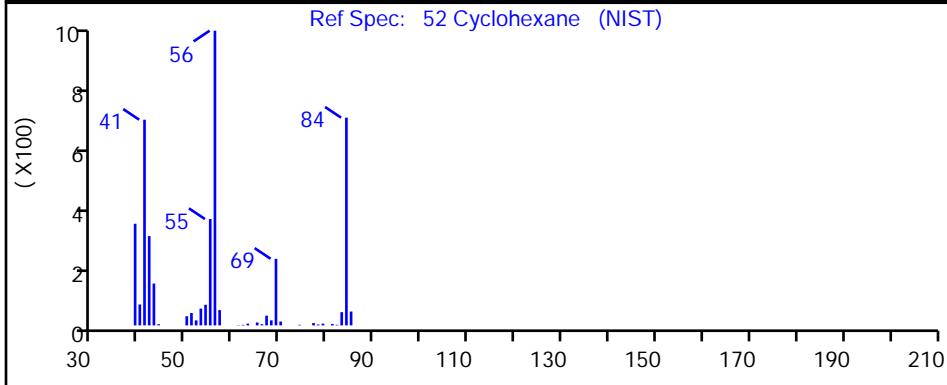
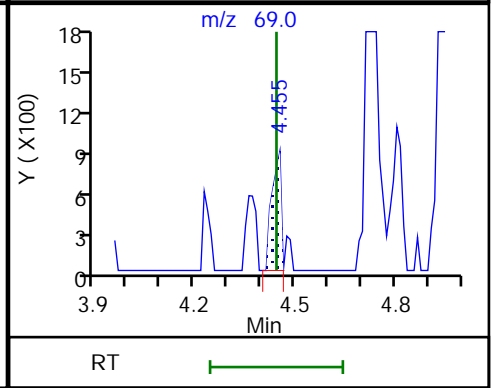
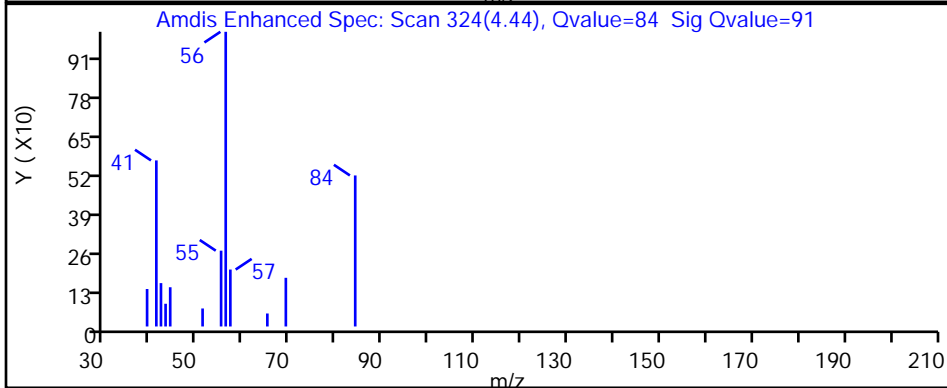
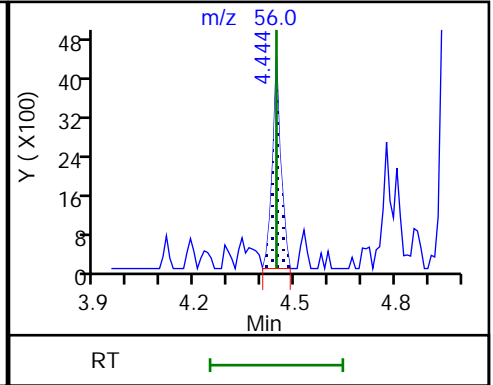
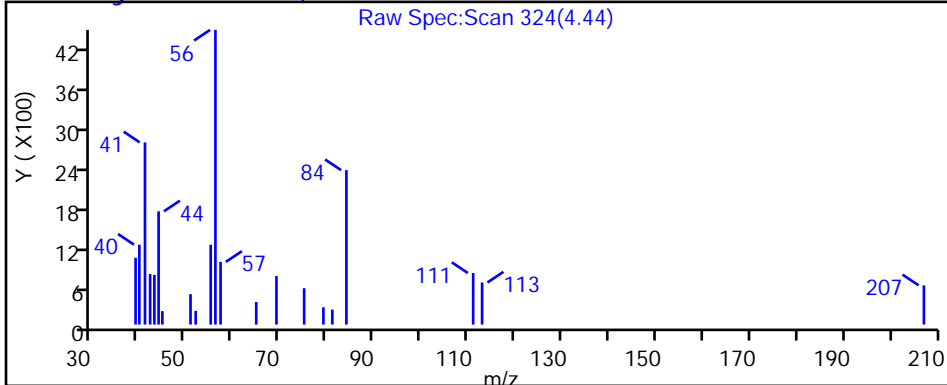
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

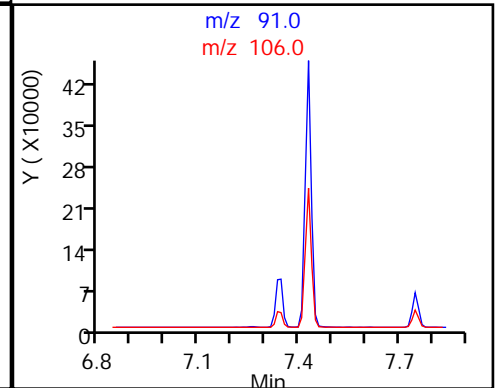
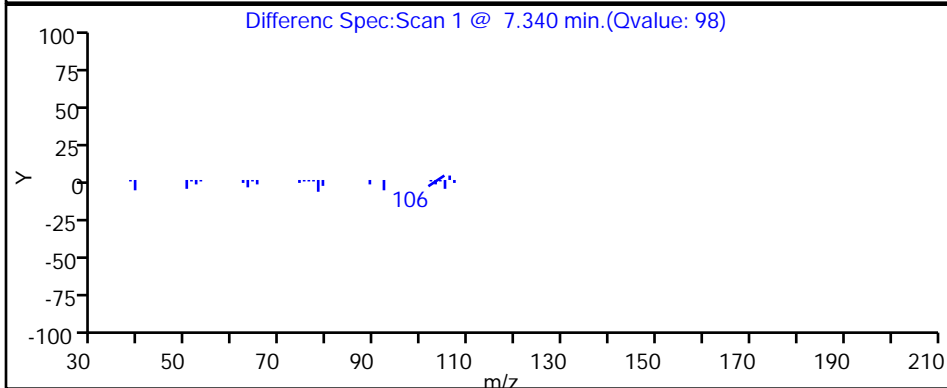
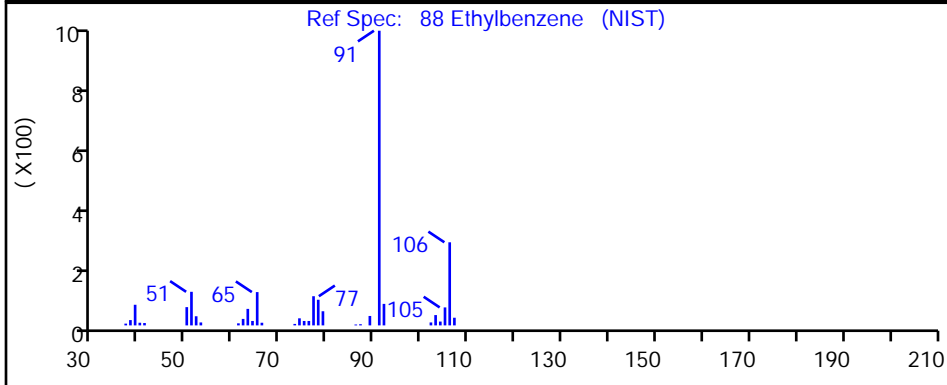
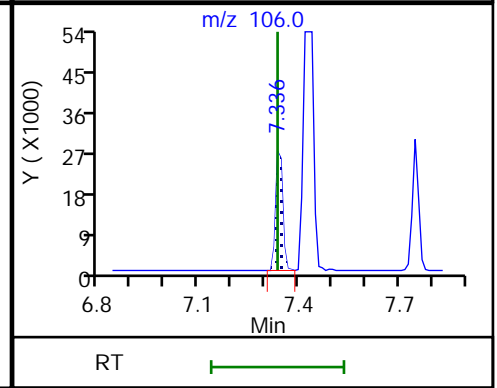
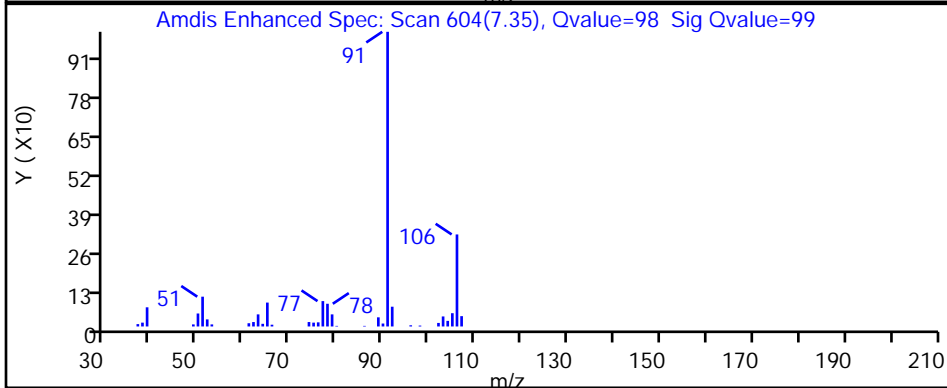
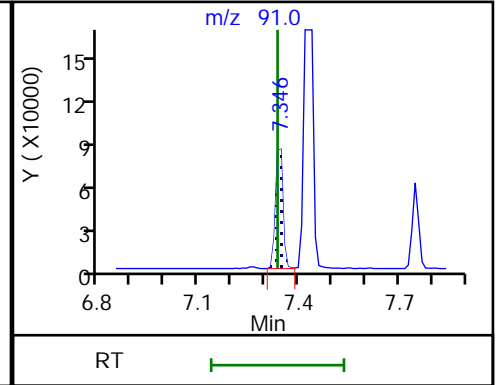
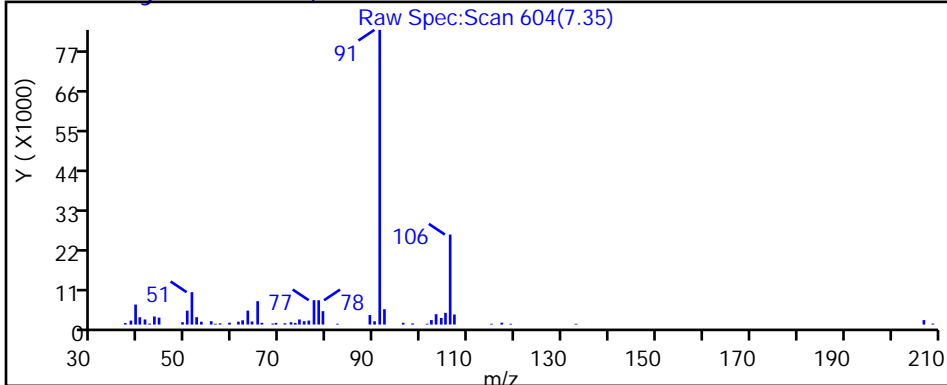
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

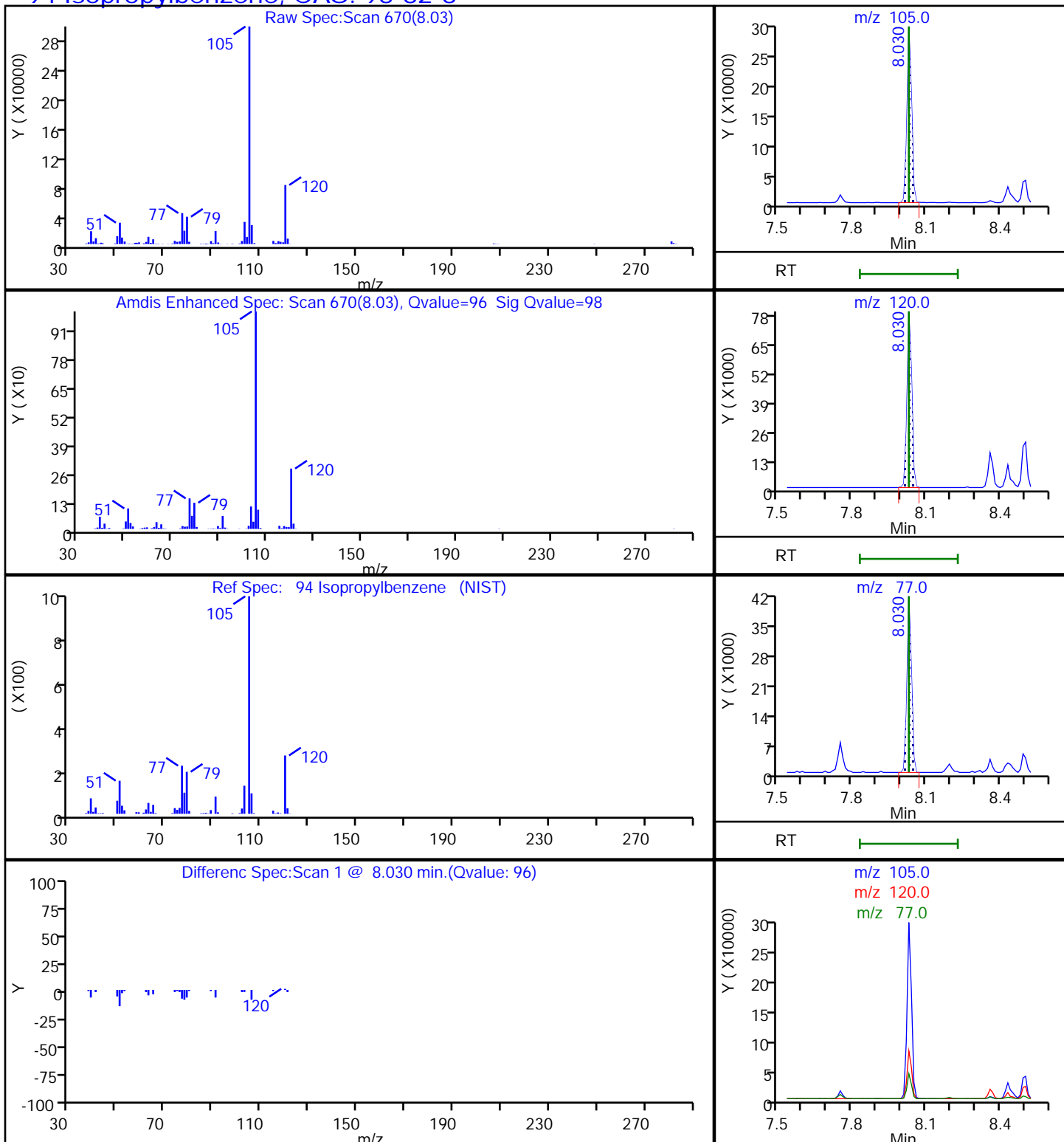
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

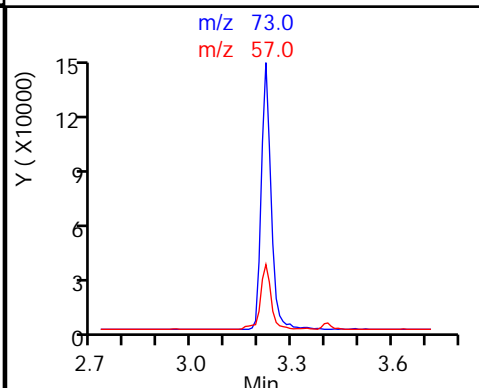
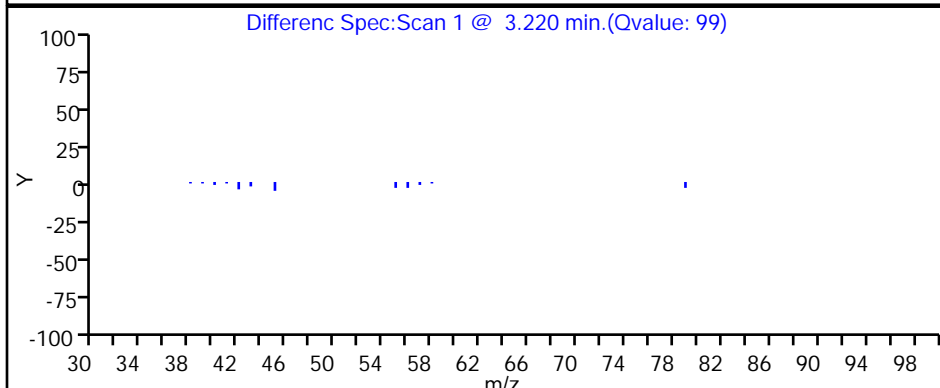
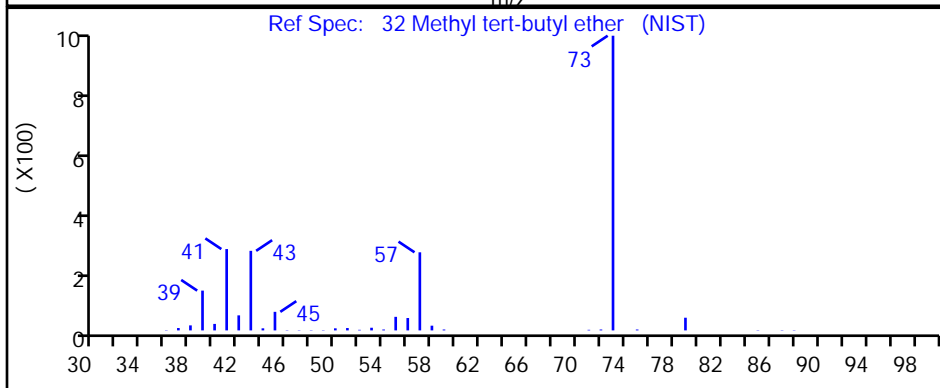
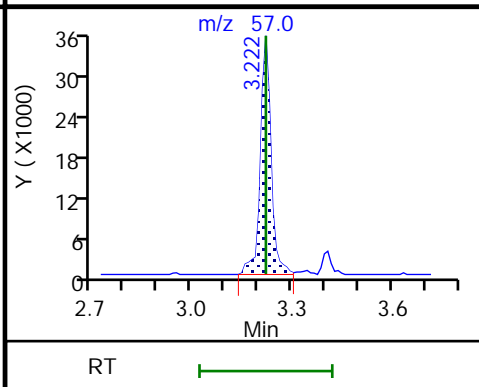
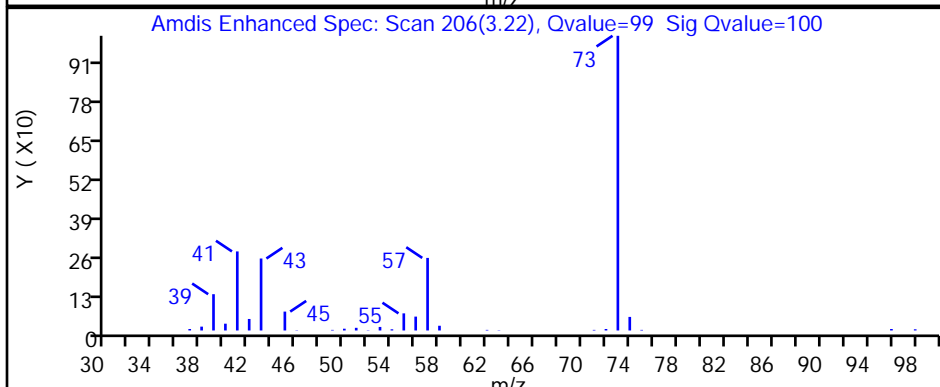
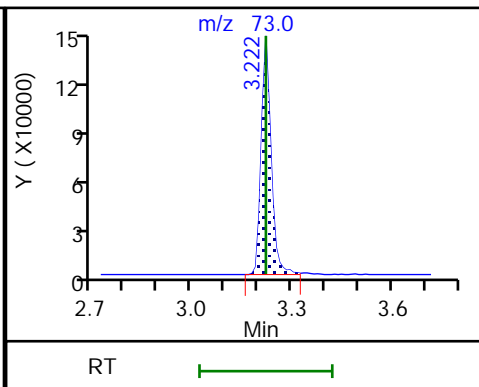
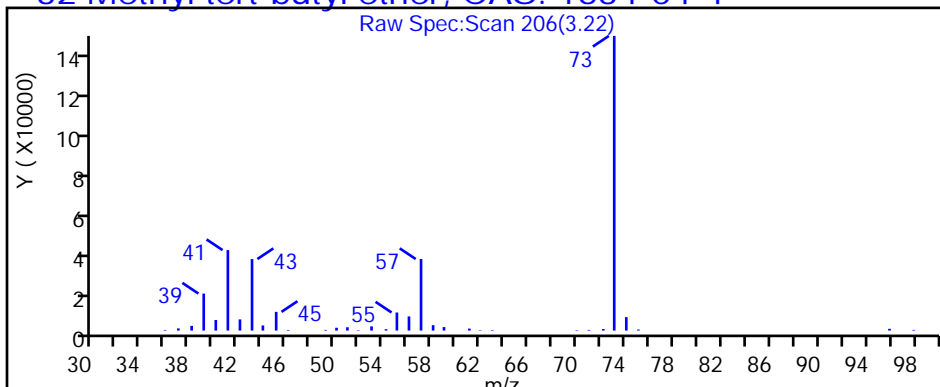
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

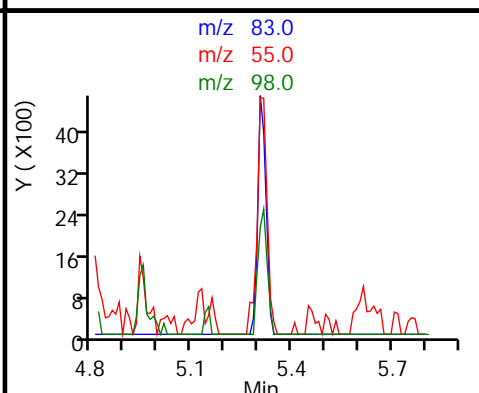
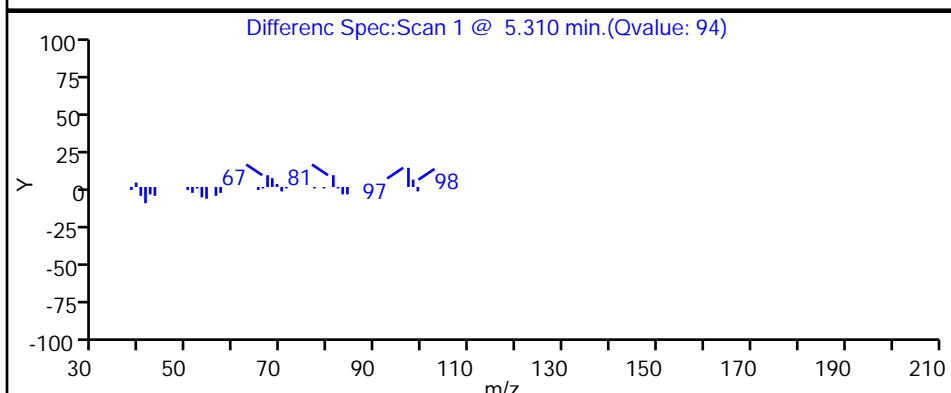
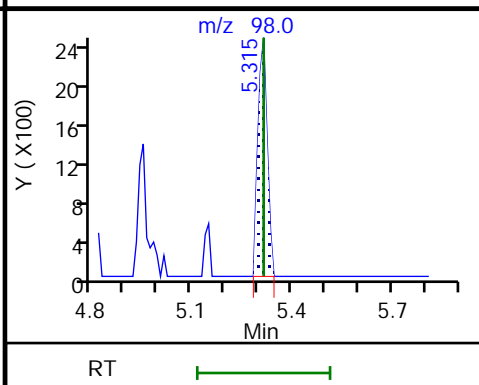
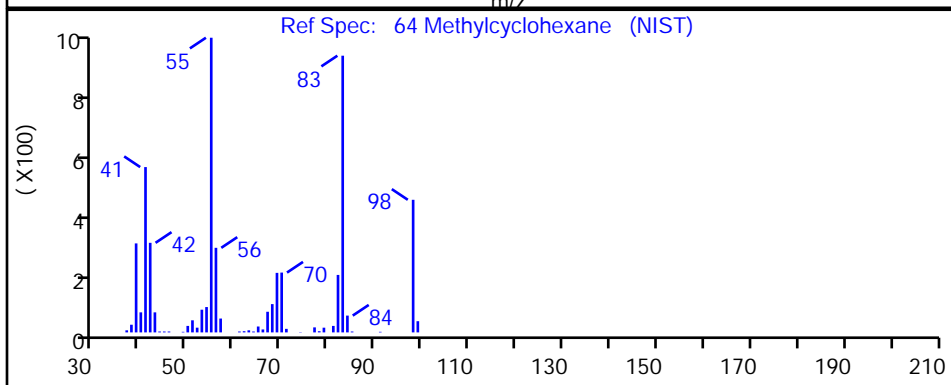
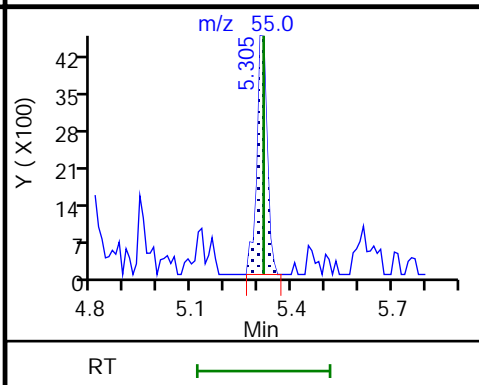
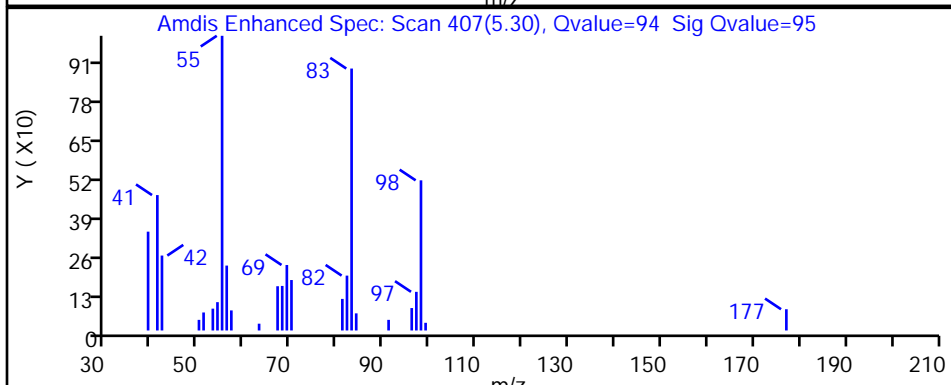
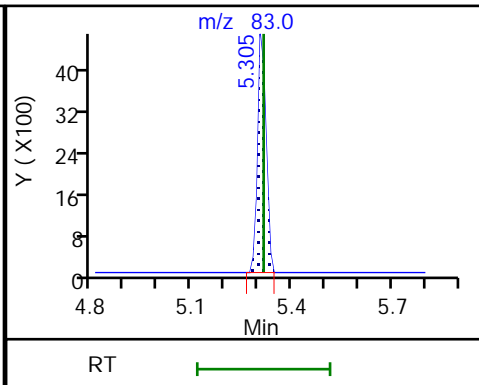
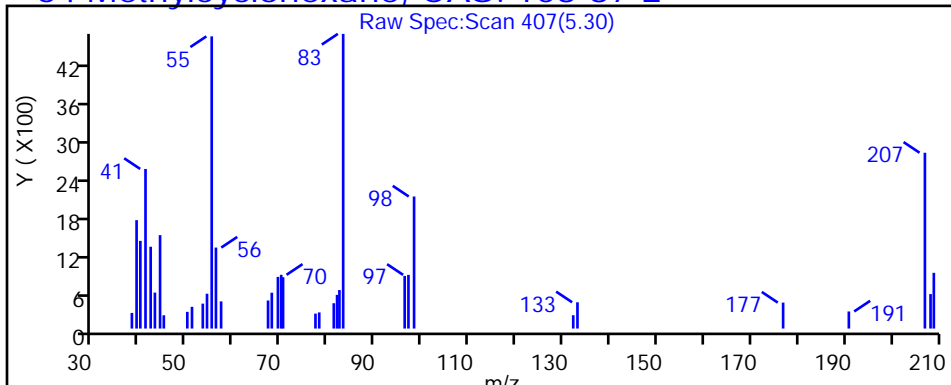
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

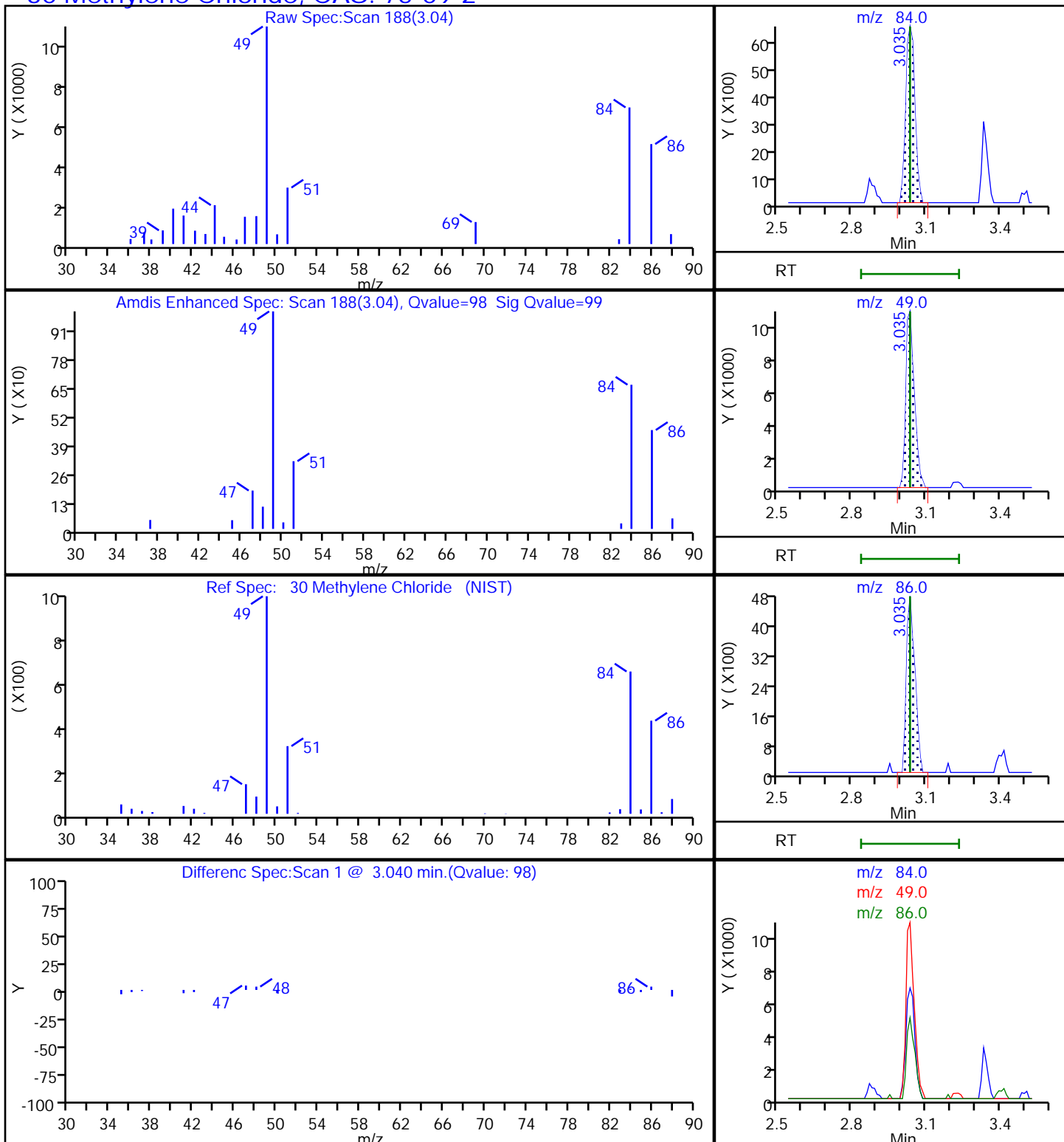
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

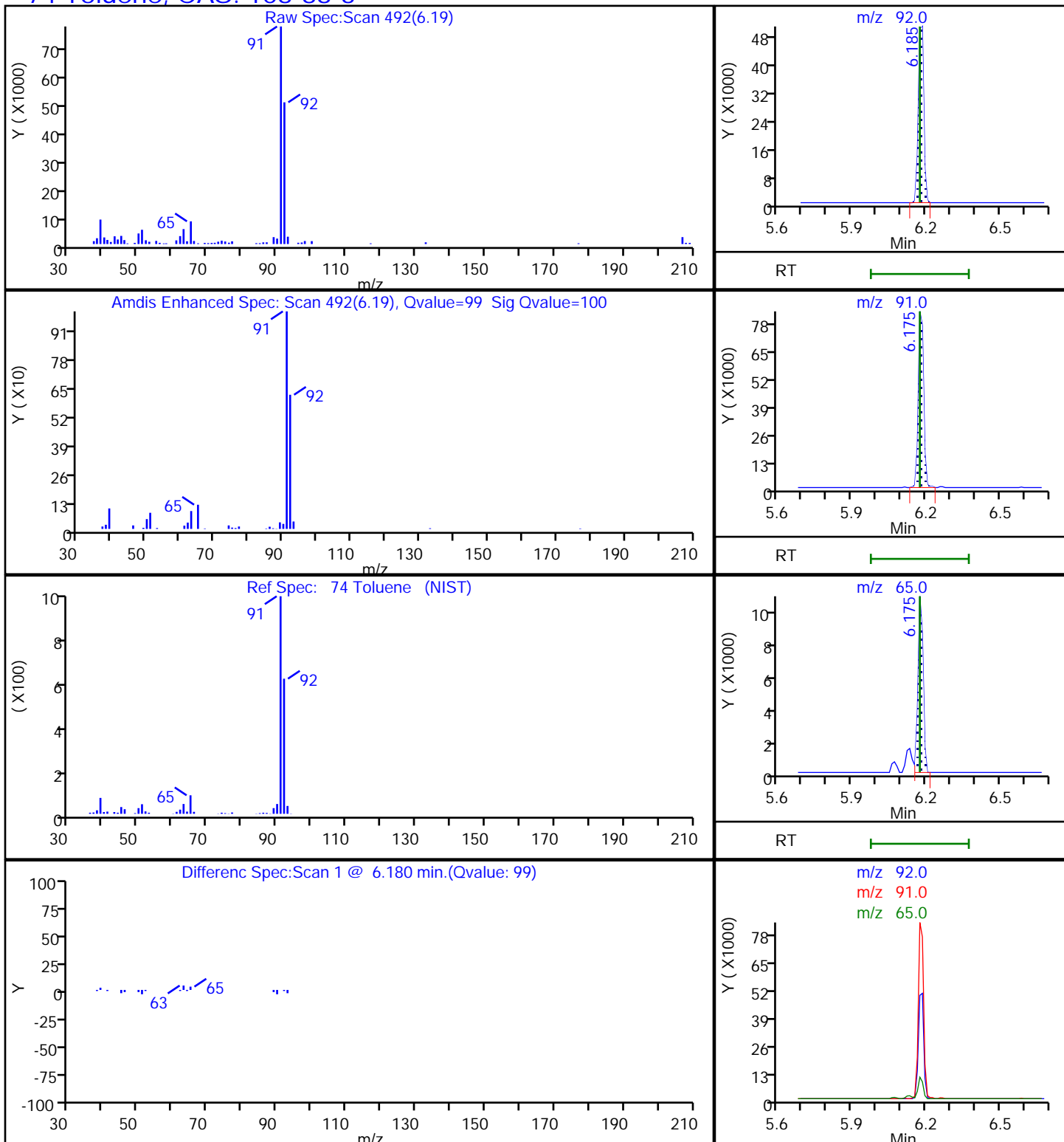
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

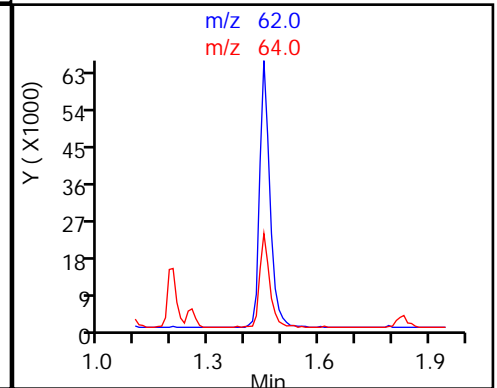
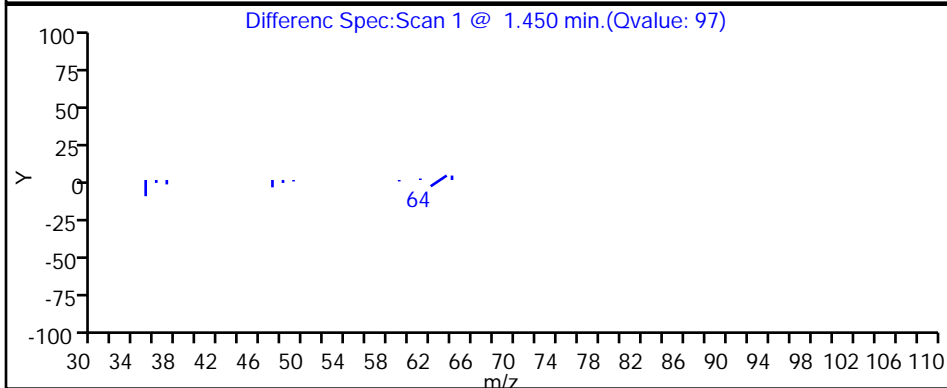
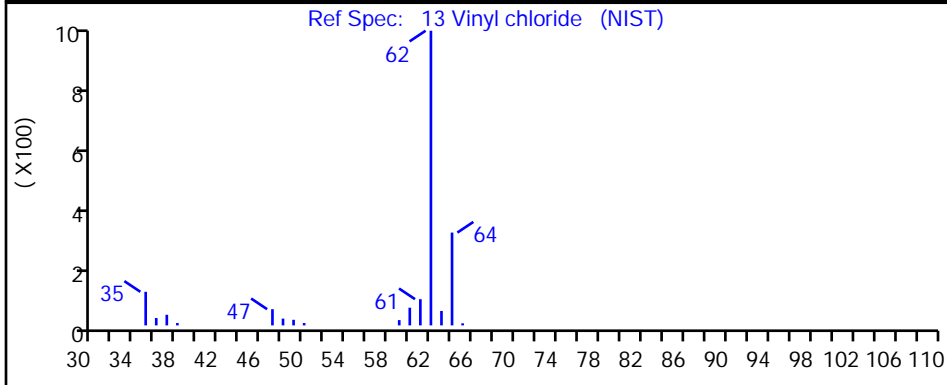
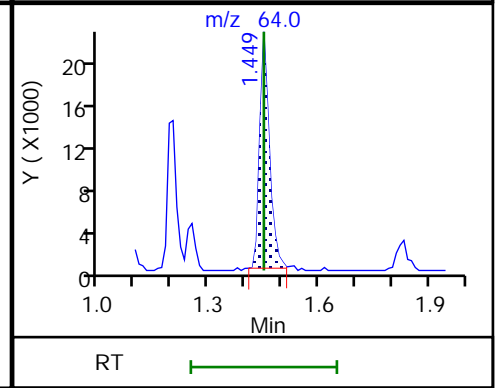
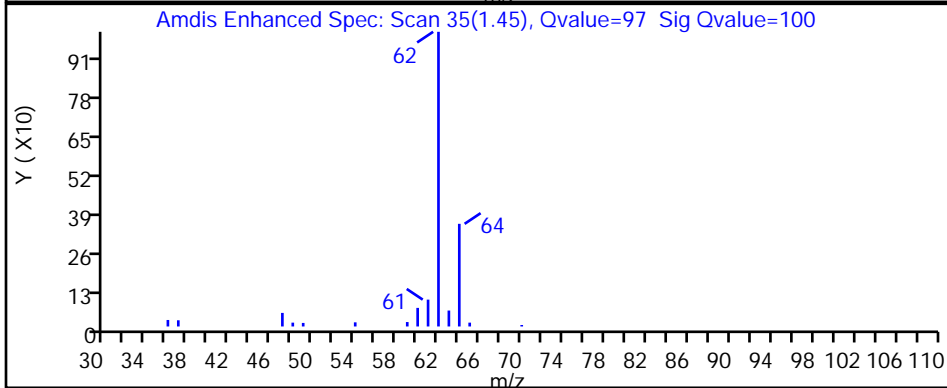
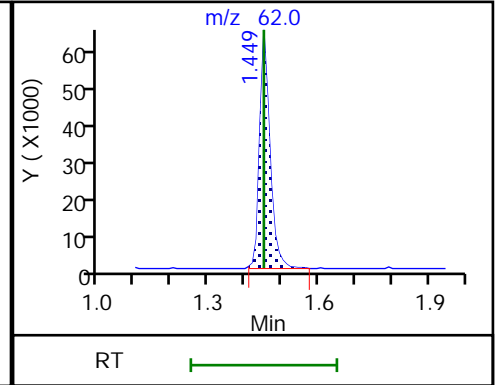
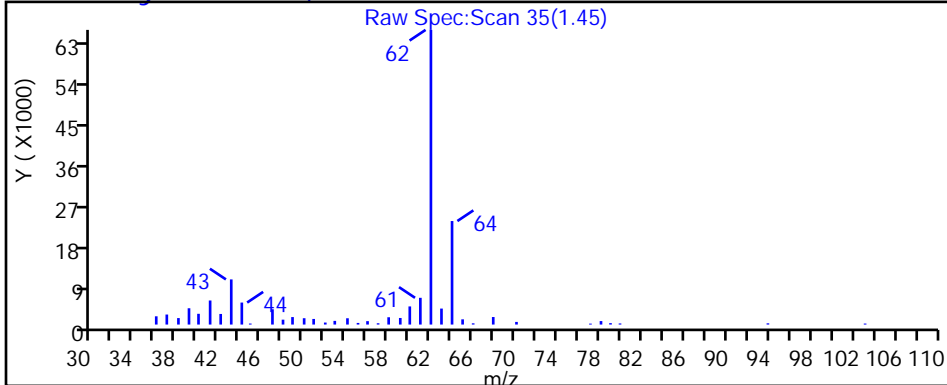
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

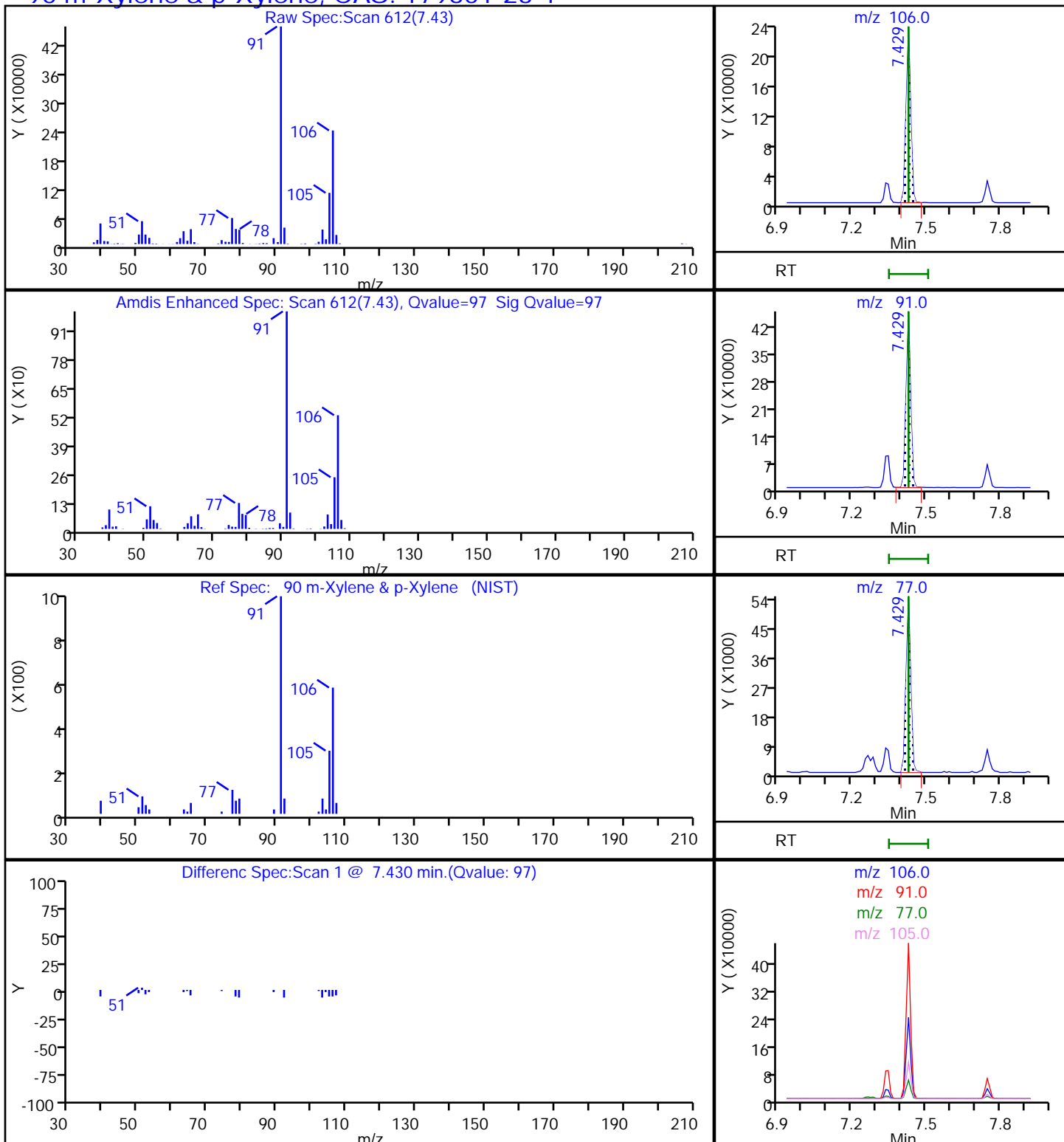
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

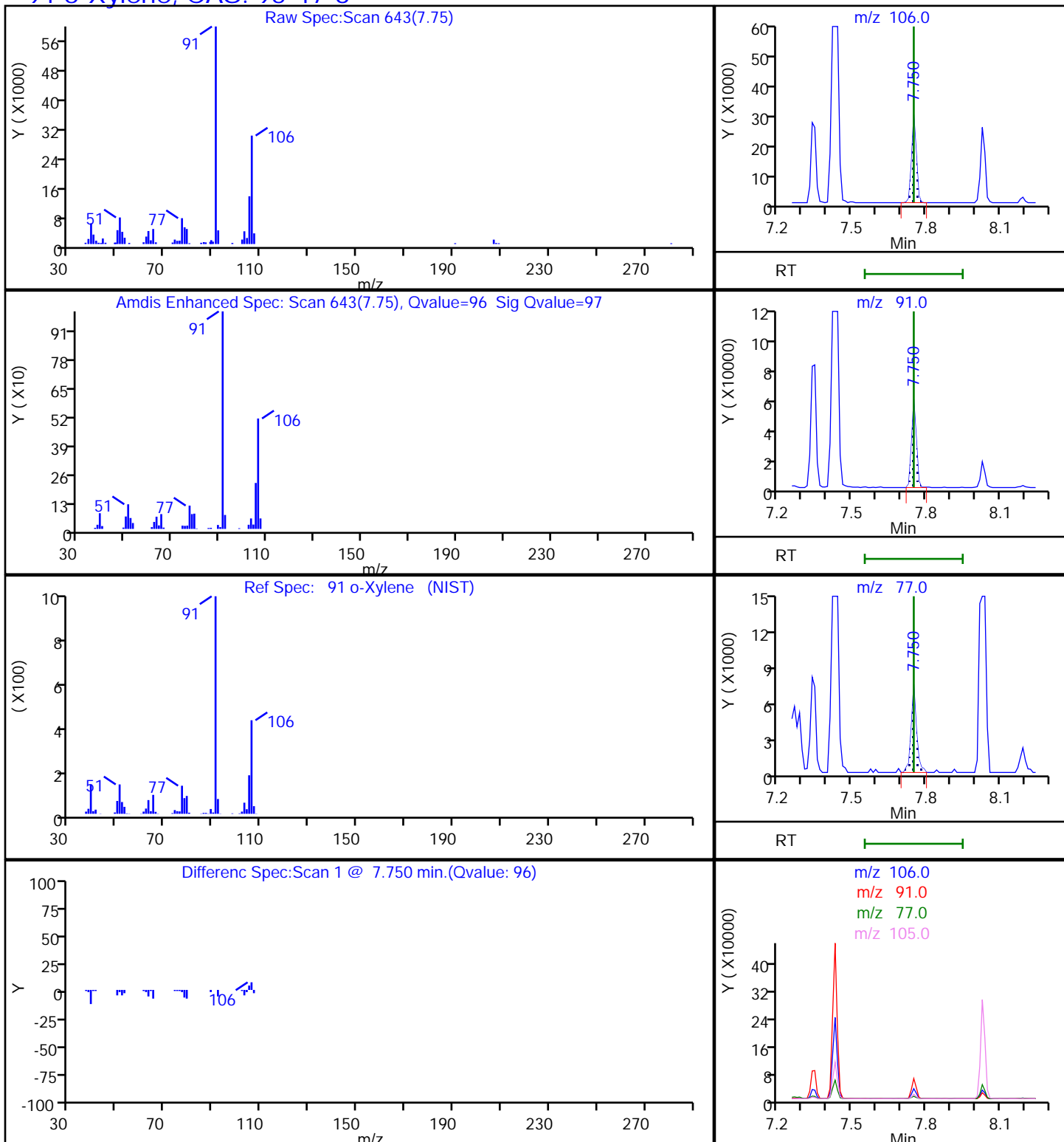
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

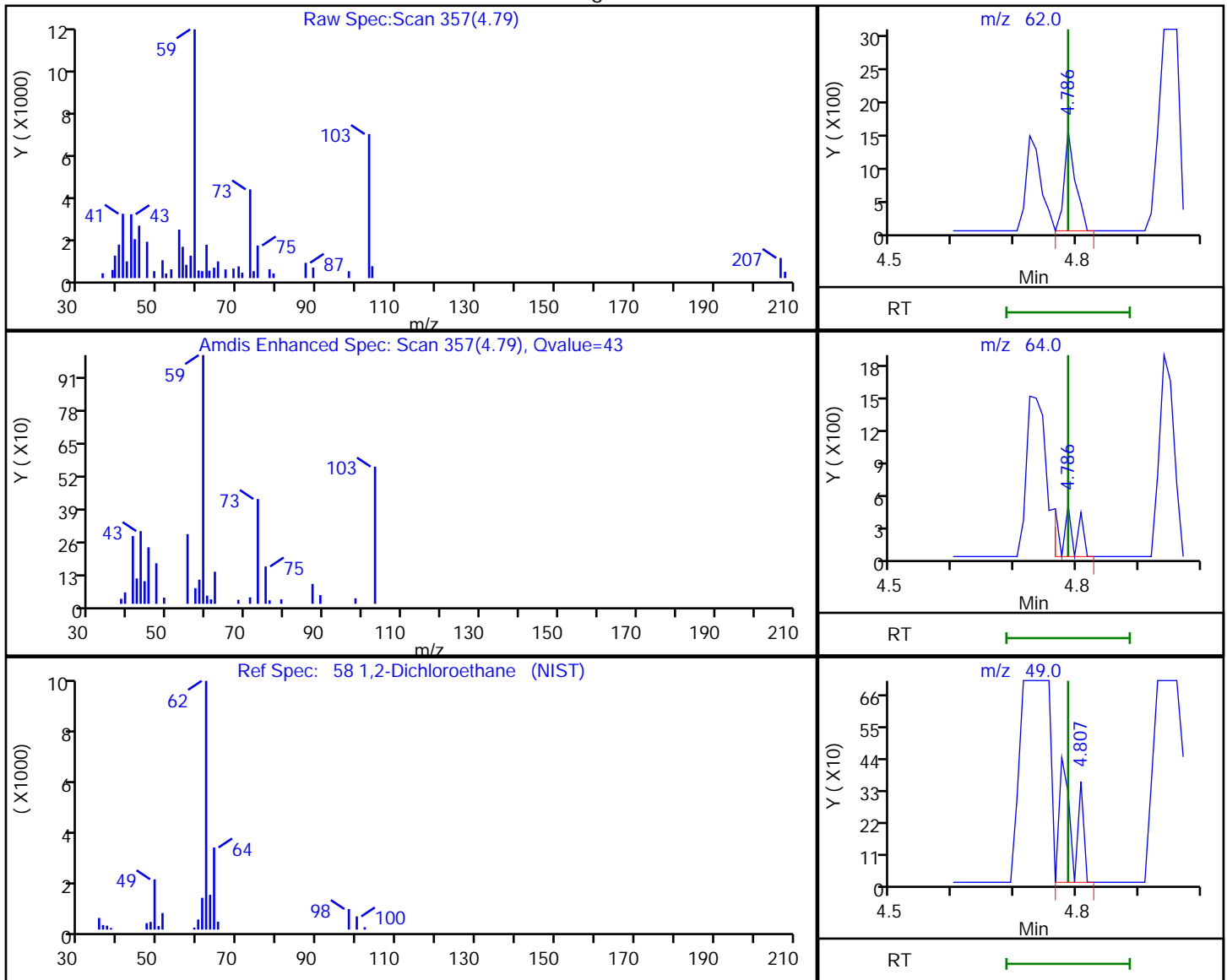


TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D
 Injection Date: 01-Mar-2019 16:39:30 Instrument ID: HP5973C
 Lims ID: 480-149618-A-3 Lab Sample ID: 480-149618-3
 Client ID: ML-2I
 Operator ID: kn ALS Bottle#: 18 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.79	62.00	1859	0.093266
4.79	64.00	806	
4.81	49.00	683	

Reviewer: carrolln, 01-Mar-2019 17:46:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

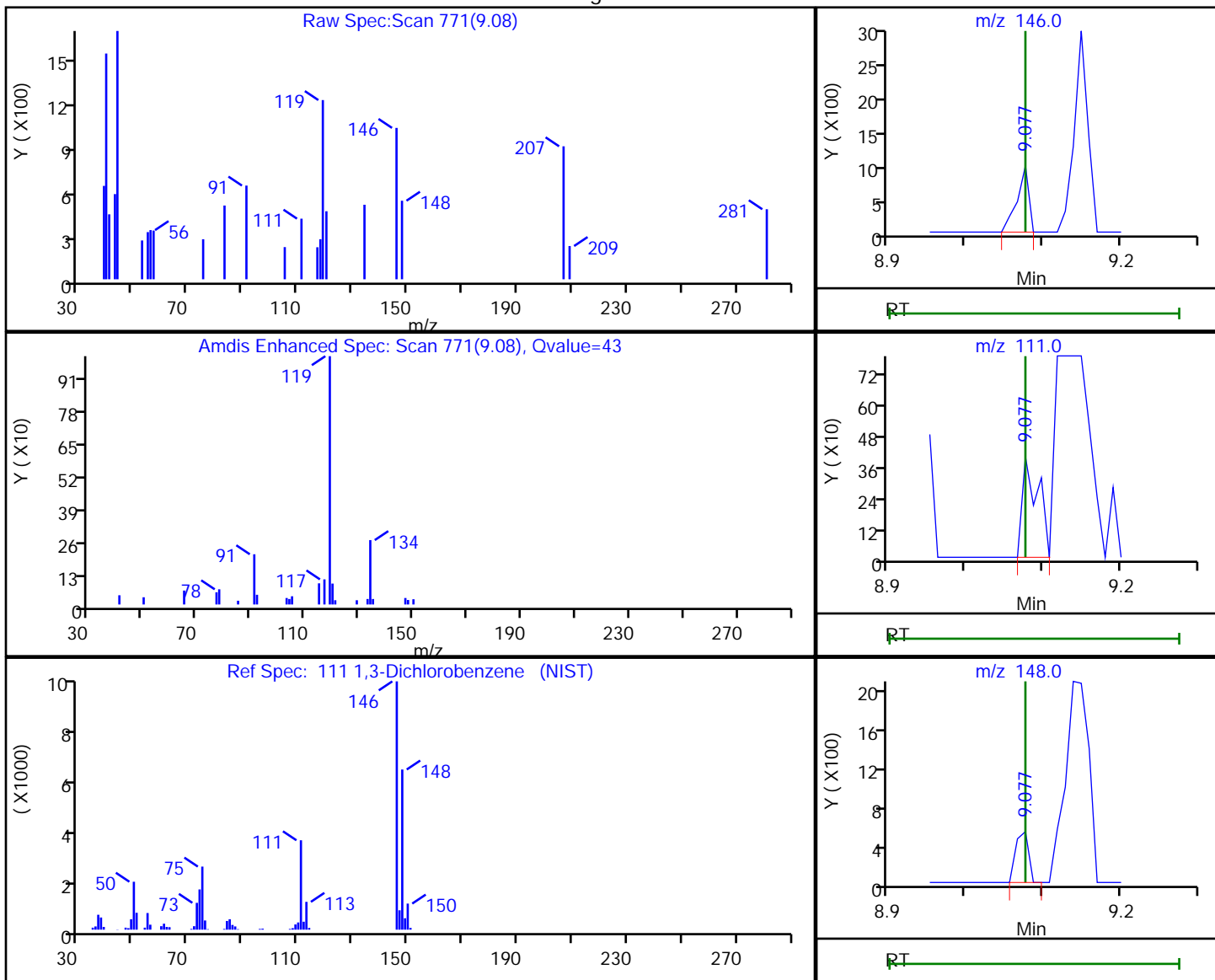
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.08	146.00	1033	0.029914
9.08	111.00	563	
9.08	148.00	587	

Reviewer: carrolln, 01-Mar-2019 17:47:21

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

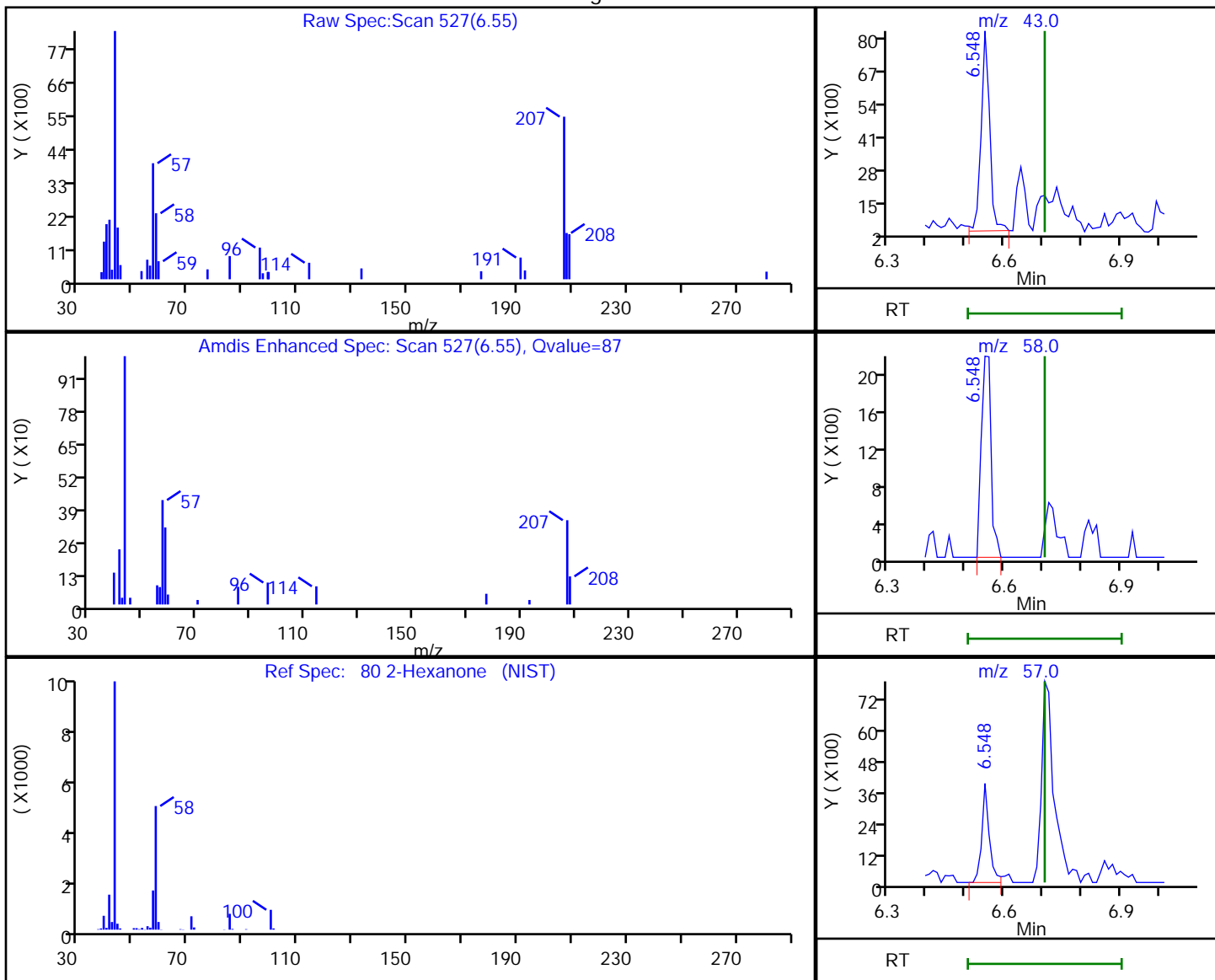
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.55	43.00	12319	1.184136
6.55	58.00	3854	
6.55	57.00	5288	

Reviewer: carrolln, 01-Mar-2019 17:47:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

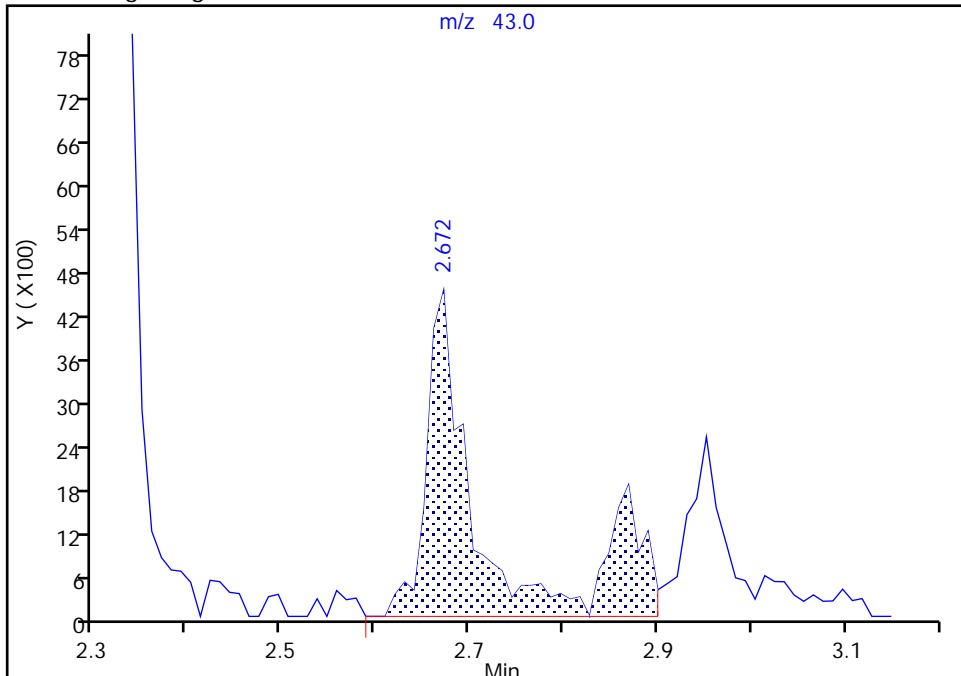
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D
Injection Date: 01-Mar-2019 16:39:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-3 Lab Sample ID: 480-149618-3
Client ID: ML-2I
Operator ID: kn ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

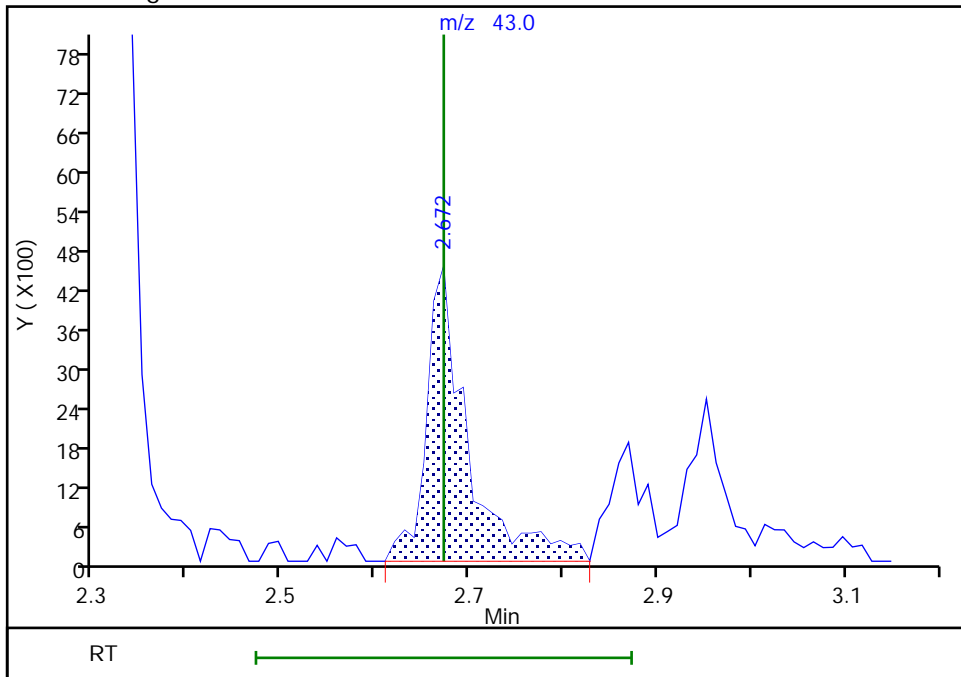
RT: 2.67
Area: 18208
Amount: 3.429712
Amount Units: ug/L

Processing Integration Results



RT: 2.67
Area: 13711
Amount: 2.582644
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 01-Mar-2019 17:46:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

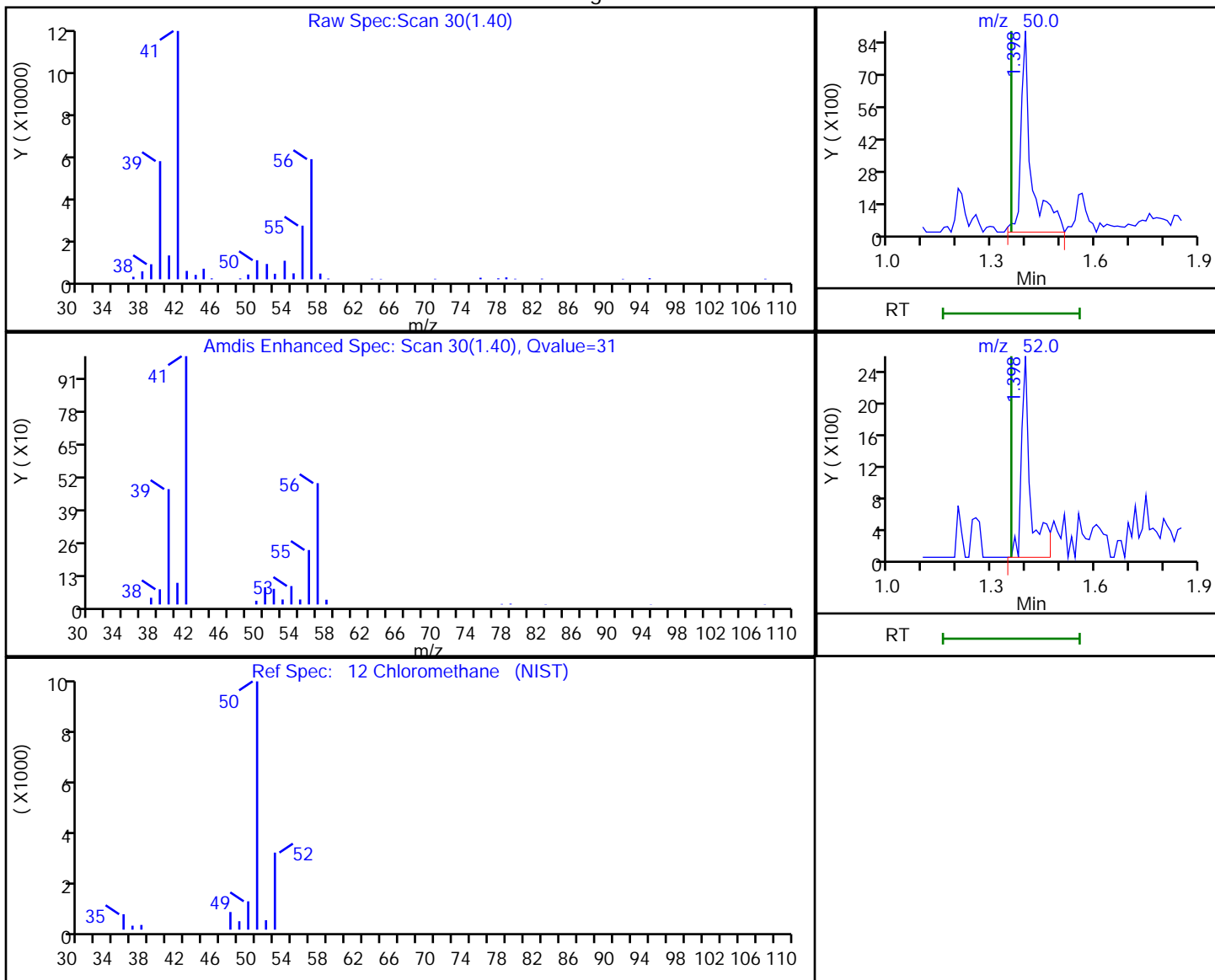
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.40	50.00	18764	1.087682
1.40	52.00	4713	

Reviewer: carrolln, 01-Mar-2019 17:45:54

Audit Action: Marked Compound Undetected

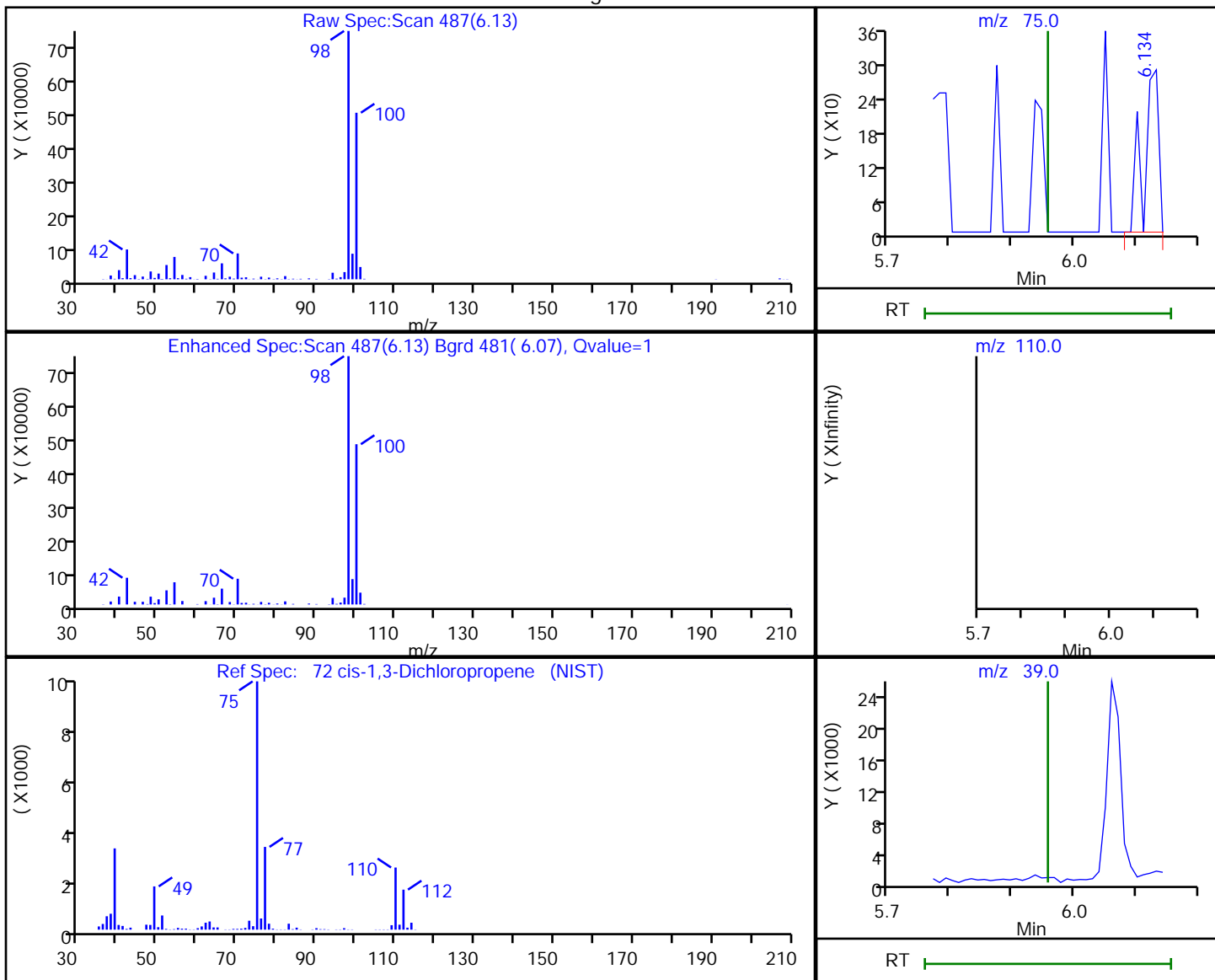
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D
 Injection Date: 01-Mar-2019 16:39:30 Instrument ID: HP5973C
 Lims ID: 480-149618-A-3 Lab Sample ID: 480-149618-3
 Client ID: ML-2I
 Operator ID: kn ALS Bottle#: 18 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
6.13	75.00	480	0.030229
5.96	110.00	0	
5.96	39.00	0	

Reviewer: carrolln, 01-Mar-2019 17:46:48

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

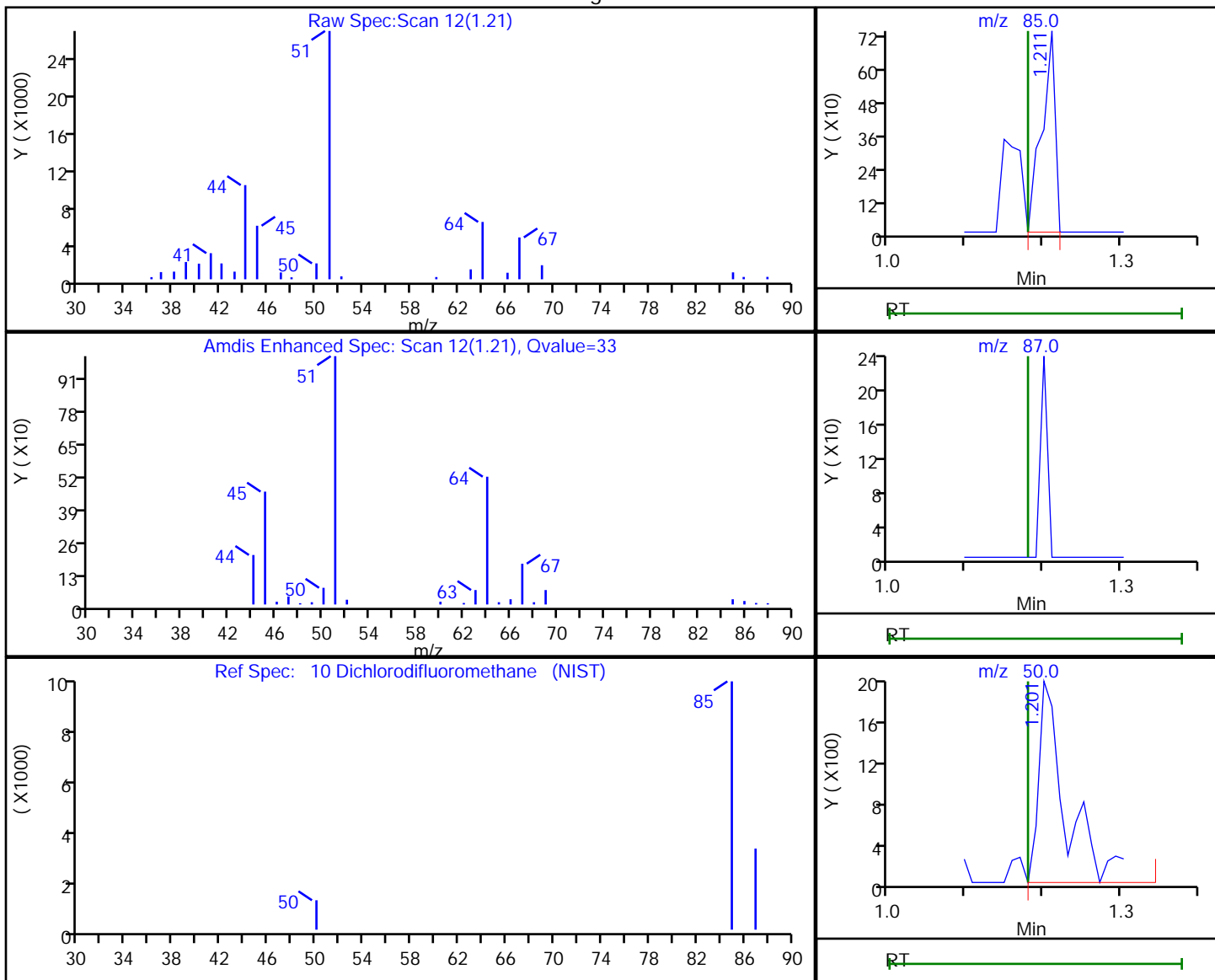
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.21	85.00	880	0.064545
1.20	50.00	4878	
1.18	87.00	0	

Reviewer: carrolln, 01-Mar-2019 17:45:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

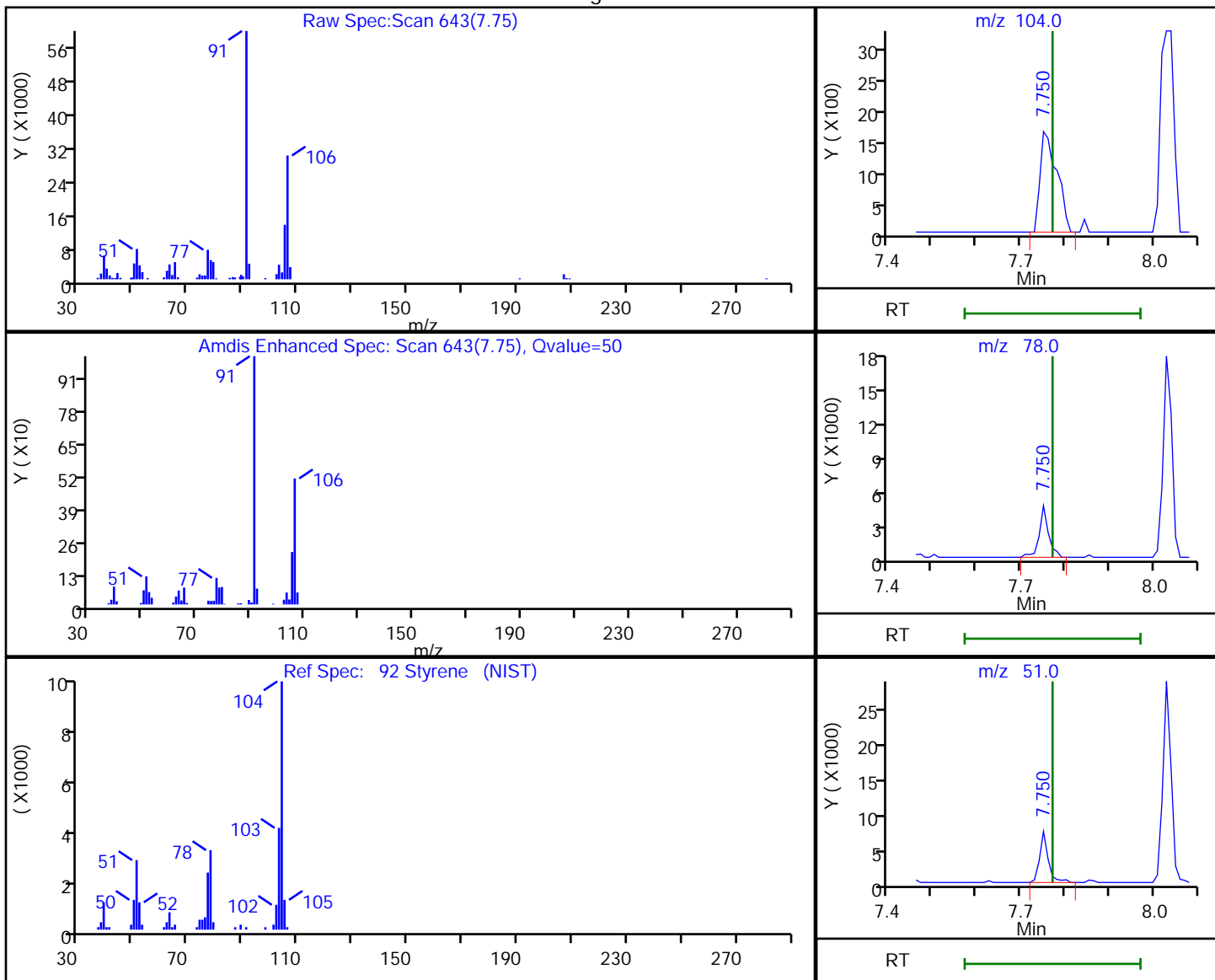
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.75	104.00	4345	0.116536
7.75	78.00	6676	
7.75	51.00	9841	

Reviewer: carrolln, 01-Mar-2019 17:47:14

Audit Action: Marked Compound Undetected

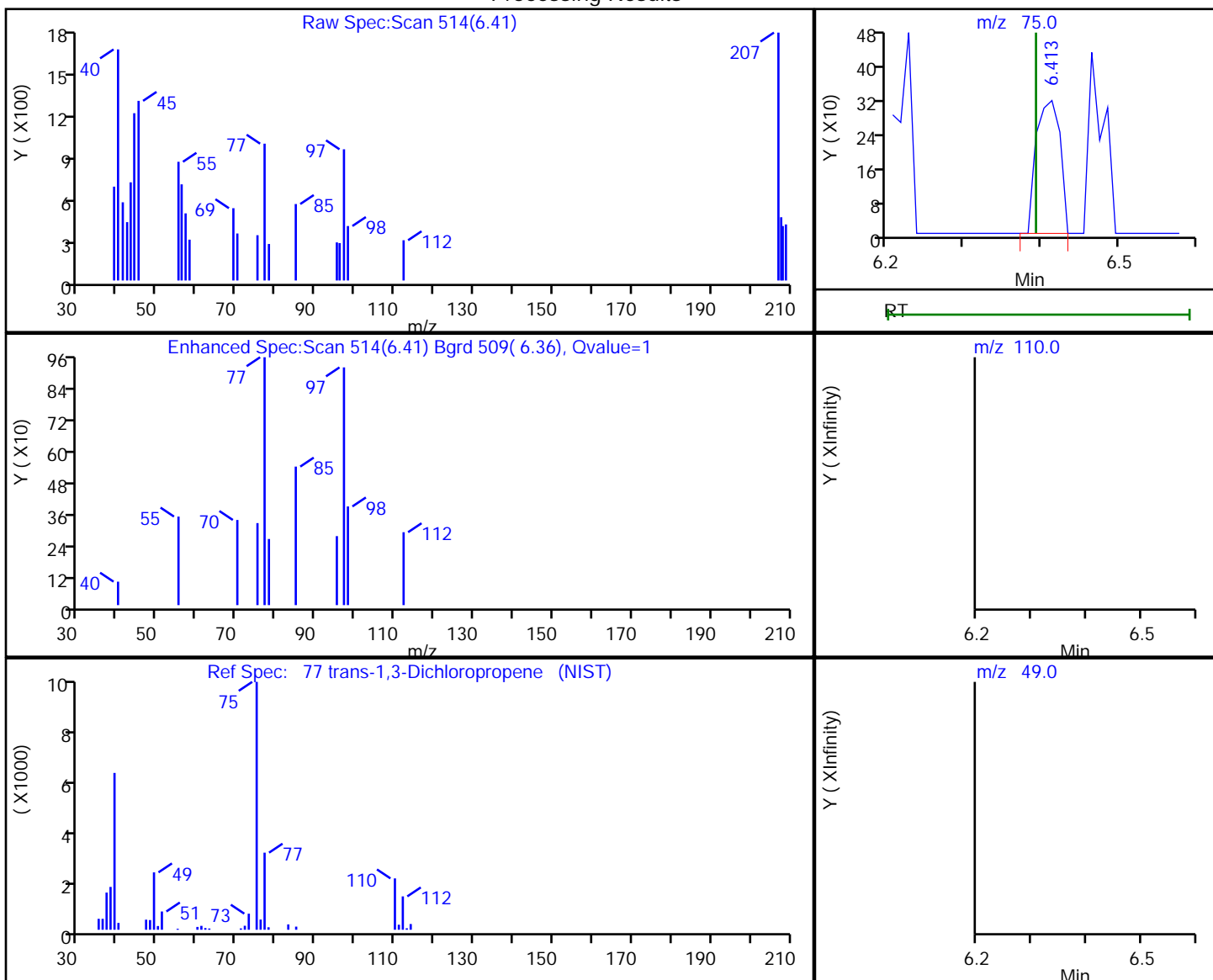
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D
 Injection Date: 01-Mar-2019 16:39:30 Instrument ID: HP5973C
 Lims ID: 480-149618-A-3 Lab Sample ID: 480-149618-3
 Client ID: ML-2I
 Operator ID: kn ALS Bottle#: 18 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
6.41	75.00	676	0.044269
6.39	110.00	0	
6.39	49.00	0	

Reviewer: carrolln, 01-Mar-2019 17:46:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

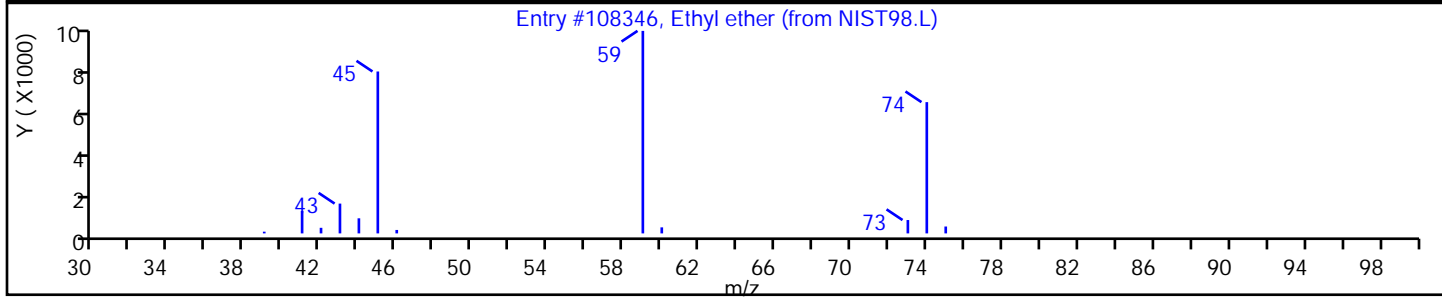
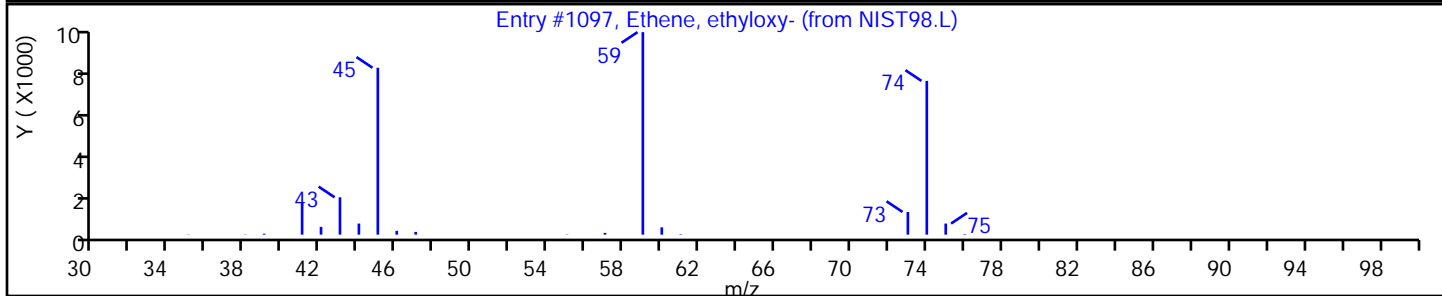
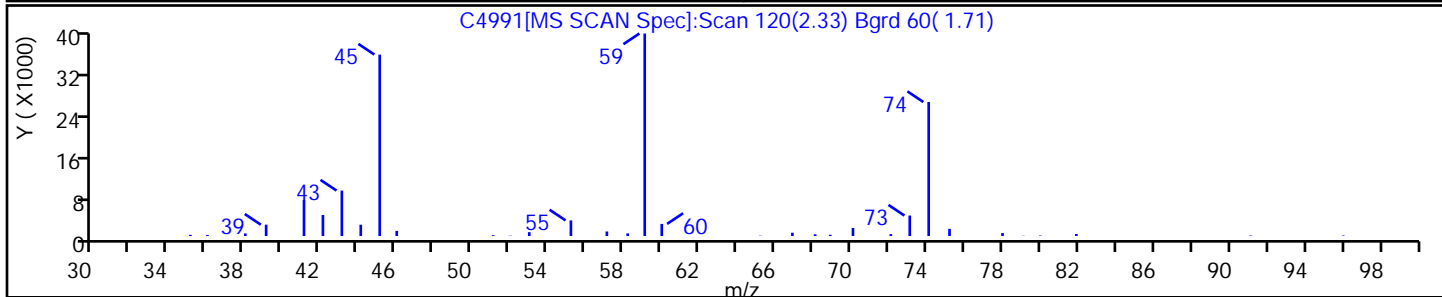
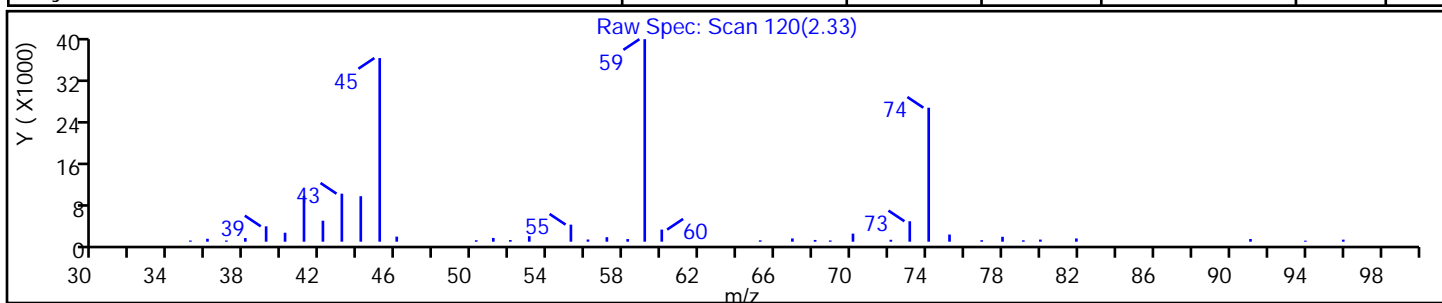
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethene, ethyloxy-	1000221-95-9	NIST98.L	1097	C4H10O	74	86
Ethyl ether	60-29-7	NIST98.L	108346	C4H10O	74	86



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

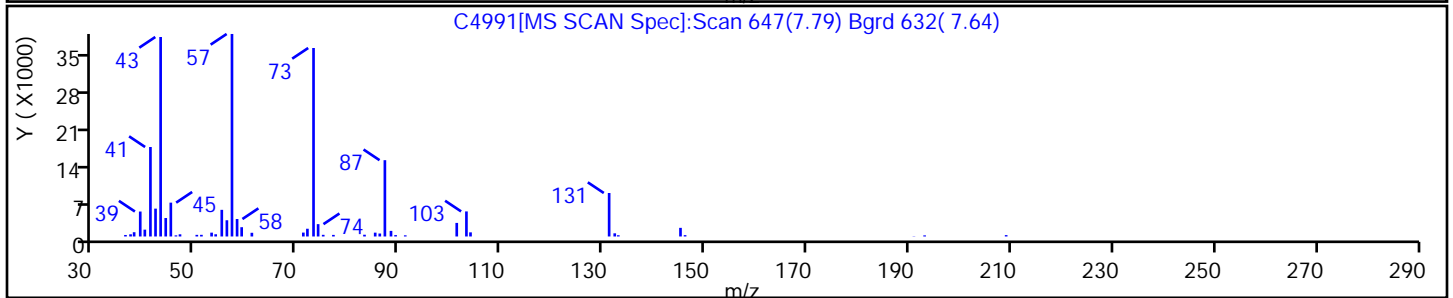
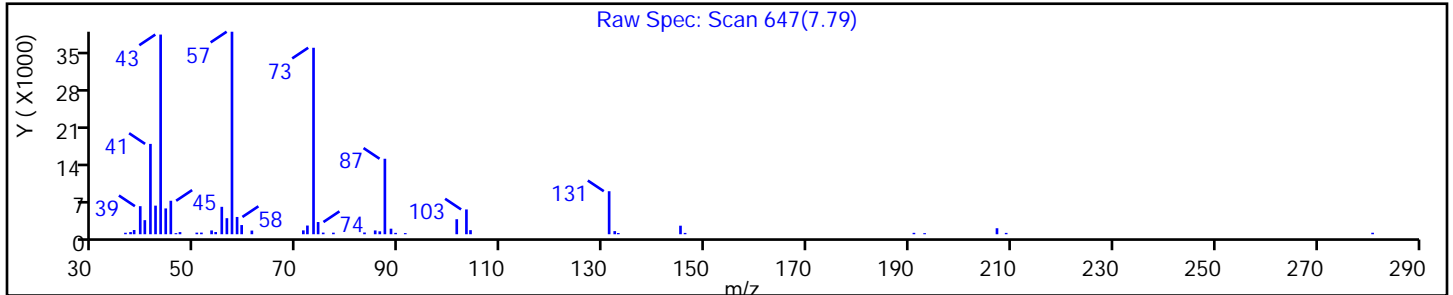
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

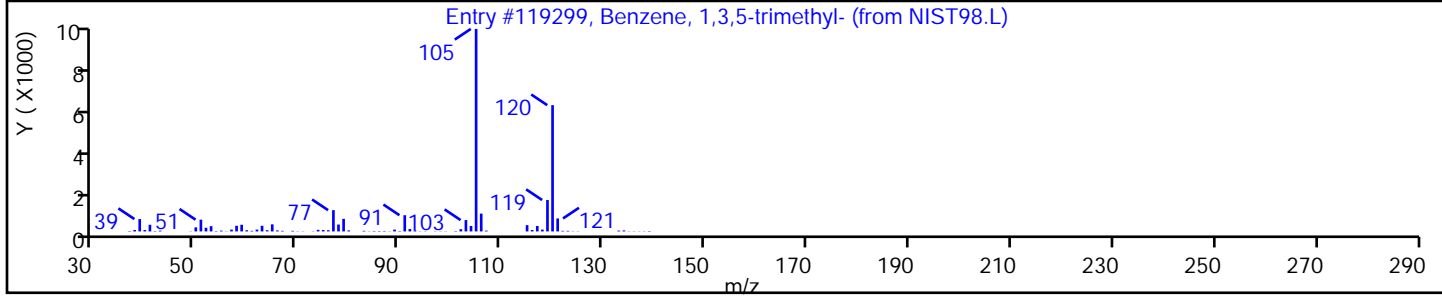
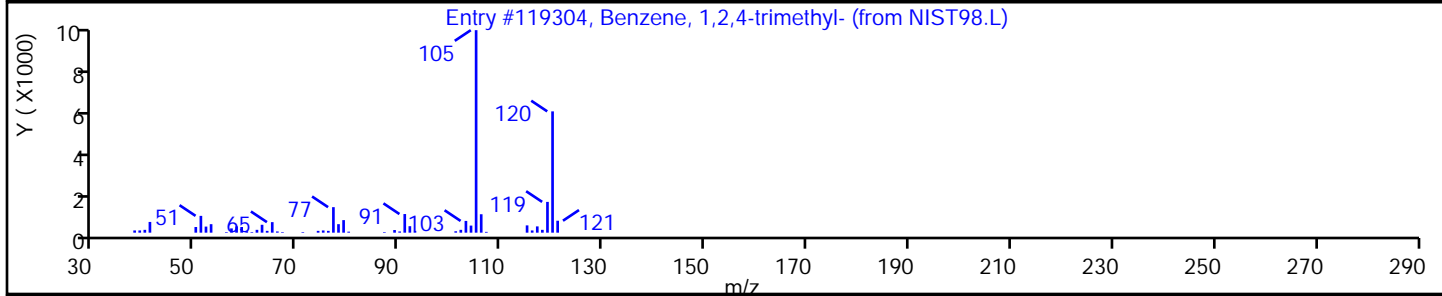
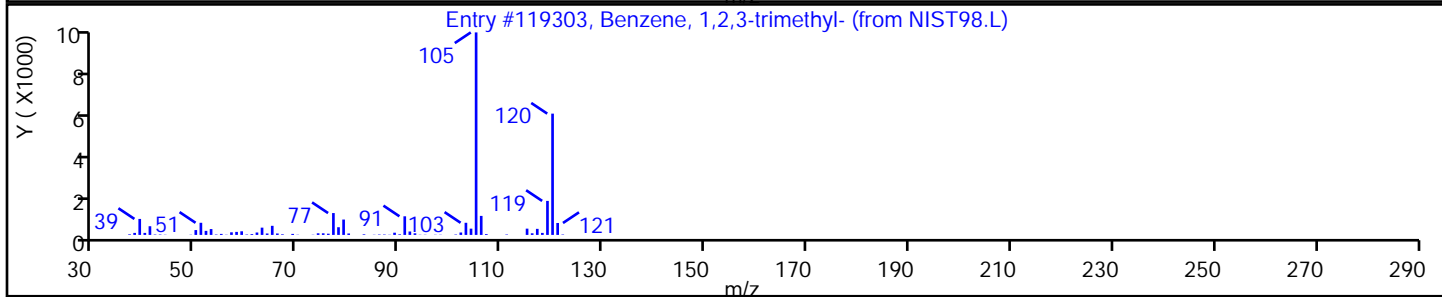
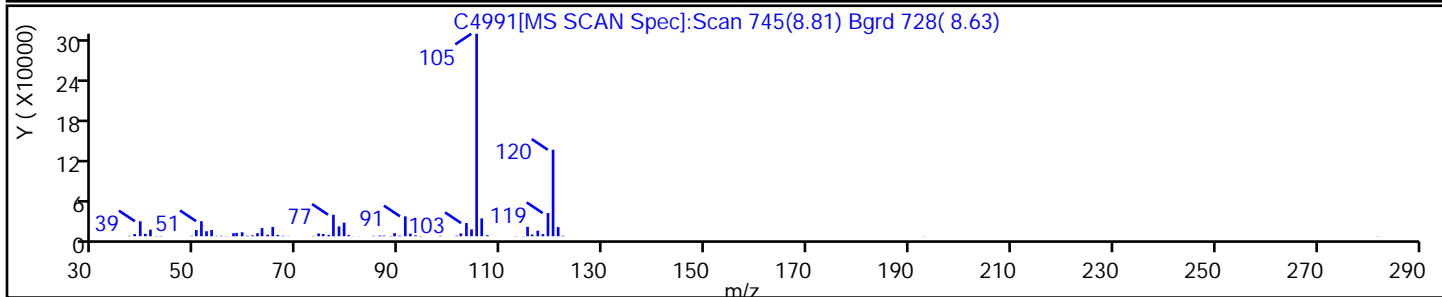
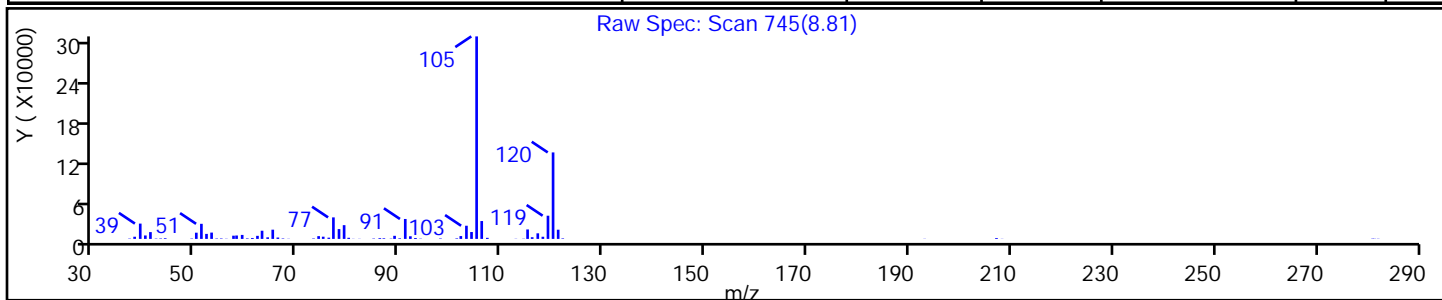
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	97
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	95
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	95



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4991.D

Injection Date: 01-Mar-2019 16:39:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-3

Lab Sample ID: 480-149618-3

Client ID: ML-2I

Operator ID: kn

ALS Bottle#: 18 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

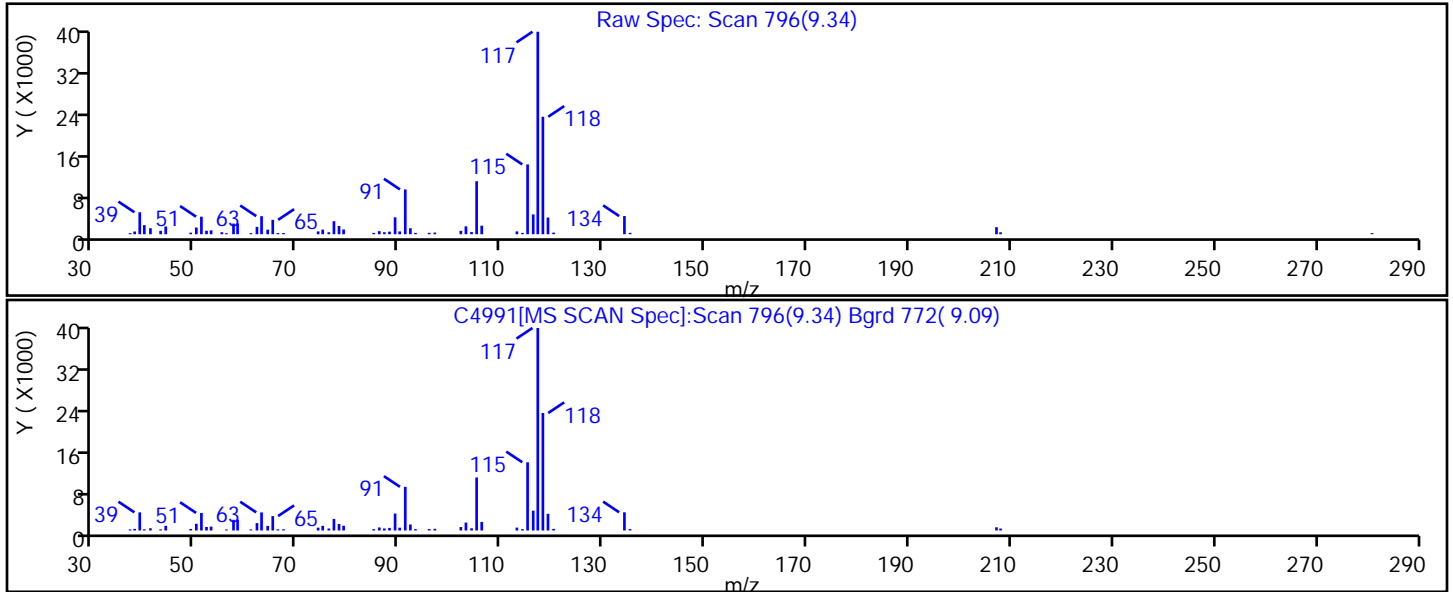
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-149618-4
 Matrix: Water Lab File ID: C5016.D
 Analysis Method: 8260C Date Collected: 02/28/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:21
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	84		5.0	1.6
75-34-3	1,1-Dichloroethane	220		5.0	1.9
75-35-4	1,1-Dichloroethene	1.8	J	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	11	J *	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	20		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND	*	5.0	1.6
75-00-3	Chloroethane	78		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	190		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-149618-4
 Matrix: Water Lab File ID: C5016.D
 Analysis Method: 8260C Date Collected: 02/28/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:21
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	1.4	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	4.9	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	2.9	J	5.0	1.8
108-88-3	Toluene	85		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	7.9		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	9.9		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	170		5.0	4.5
1330-20-7	Xylenes, Total	7.8	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-149618-4
 Matrix: Water Lab File ID: C5016.D
 Analysis Method: 8260C Date Collected: 02/28/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:21
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 140

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.40	140	T J N	94%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
 Lims ID: 480-149618-B-4
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 02-Mar-2019 04:21:30 ALS Bottle#: 17 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-B-4
 Misc. Info.: 480-0079070-020
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Mar-2019 09:29:19 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 05-Mar-2019 09:29:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	205558	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	86	443819	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.129	-0.001	95	479677	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.476	-0.001	92	303028	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	-0.001	96	182762	25.4	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	94	1148947	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	95	387067	27.7	
10 Dichlorodifluoromethane	85		1.190				ND	MUa
12 Chloromethane	50	1.356	1.356	0.000	10	736	0.0420	7M
13 Vinyl chloride	62	1.449	1.439	-0.001	99	481352	33.8	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.823	0.000	99	139610	15.5	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	91	163023	16.7	
22 1,1-Dichloroethene	96	2.538	2.548	-0.010	31	3880	0.3682	
23 Acetone	43	2.672	2.672	0.010	91	9161	1.70	M
26 Carbon disulfide	76		2.735				ND	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	99	13234	0.9742	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	60	10033	0.2716	
34 trans-1,2-Dichloroethene	96	3.232	3.232	-0.010	95	20327	1.58	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	1023380	44.0	
45 cis-1,2-Dichloroethene	96	4.092	4.082	0.010	80	582016	37.8	
43 2-Butanone (MEK)	43	4.123	4.134	-0.011	60	15611	2.15	
50 Chloroform	83		4.351				ND	
51 1,1,1-Trichloroethane	97	4.444	4.445	0.000	97	37945	2.08	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.558				ND	U
57 Benzene	78	4.735	4.735	-0.001	67	193666	4.02	
58 1,2-Dichloroethane	62	4.797	4.786	0.011	1	1922	0.0950	a
62 Trichloroethene	95	5.222	5.222	0.000	92	25239	1.97	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.305	0.000	25	1577	0.0924	a
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.071	6.061	0.010	62	3707	0.2220	7a
74 Toluene	92	6.185	6.186	0.010	98	534479	16.9	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166	6.589	6.590	-0.001	95	7974	0.5851	
80 2-Hexanone	43	6.714	6.714	0.010	13	1544	0.1472	a
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112		7.284				ND	
88 Ethylbenzene	91	7.346	7.336	0.010	98	26794	0.4462	
90 m-Xylene & p-Xylene	106	7.429	7.420	0.000	97	37473	1.55	
91 o-Xylene	106	7.750	7.750	0.000	96	13284	0.5198	
92 Styrene	104	7.761	7.781	-0.010	31	1630	0.0434	7a
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	44	5100	0.0777	a
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	
113 1,4-Dichlorobenzene	146		9.149				ND	
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		2.07	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
 Lims ID: 480-149618-B-4
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 02-Mar-2019 04:21:30 ALS Bottle#: 17 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-B-4
 Misc. Info.: 480-0079070-020
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Mar-2019 09:29:19 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315
 First Level Reviewer: izquierdo Date: 05-Mar-2019 09:29:22

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.403	2591784	28.4	153	94	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.952	2284726	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Worklist Smp#: 20

Client ID: ML-7I

Purge Vol: 5.000 mL

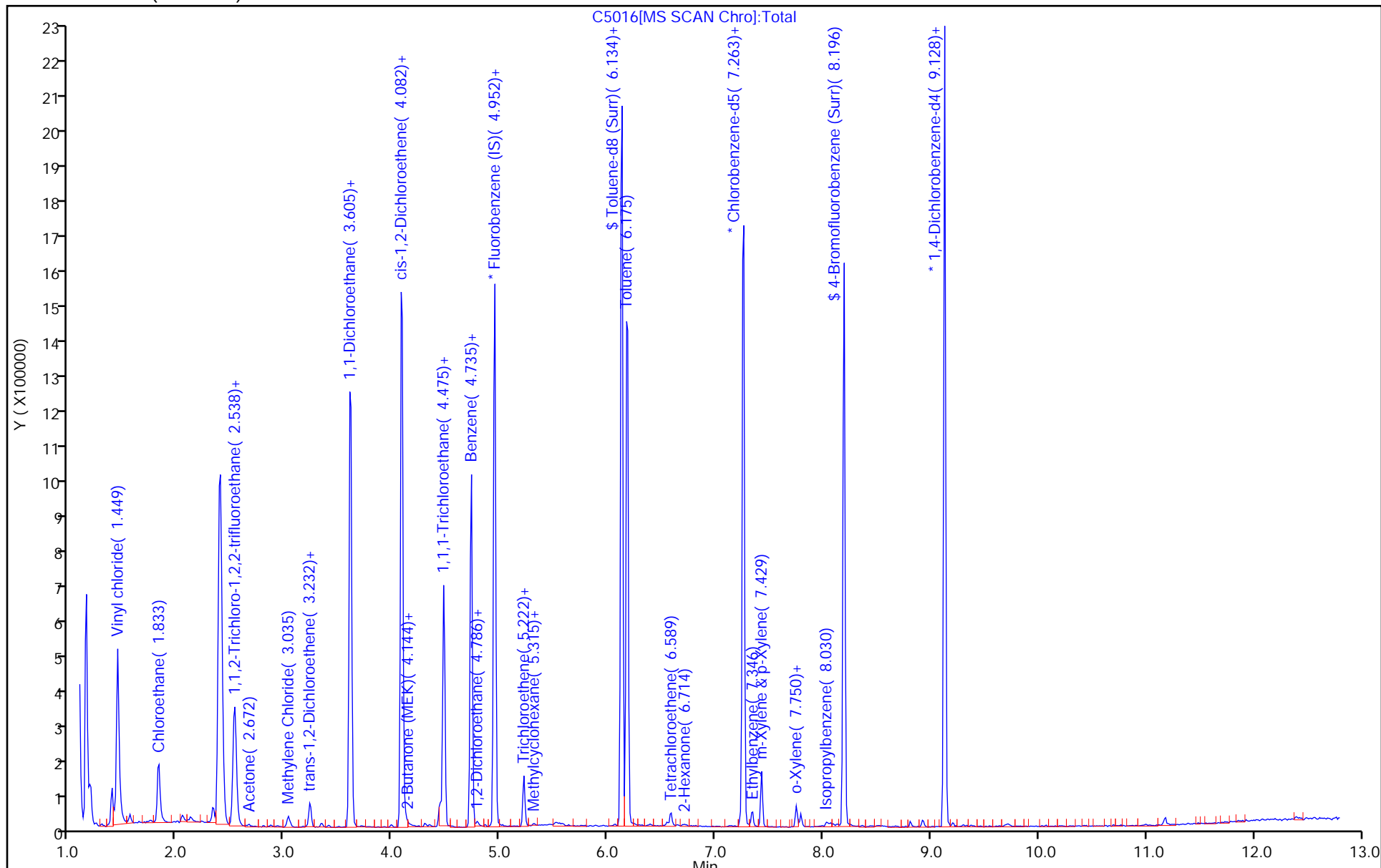
Dil. Factor: 5.0000

ALS Bottle#: 17

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

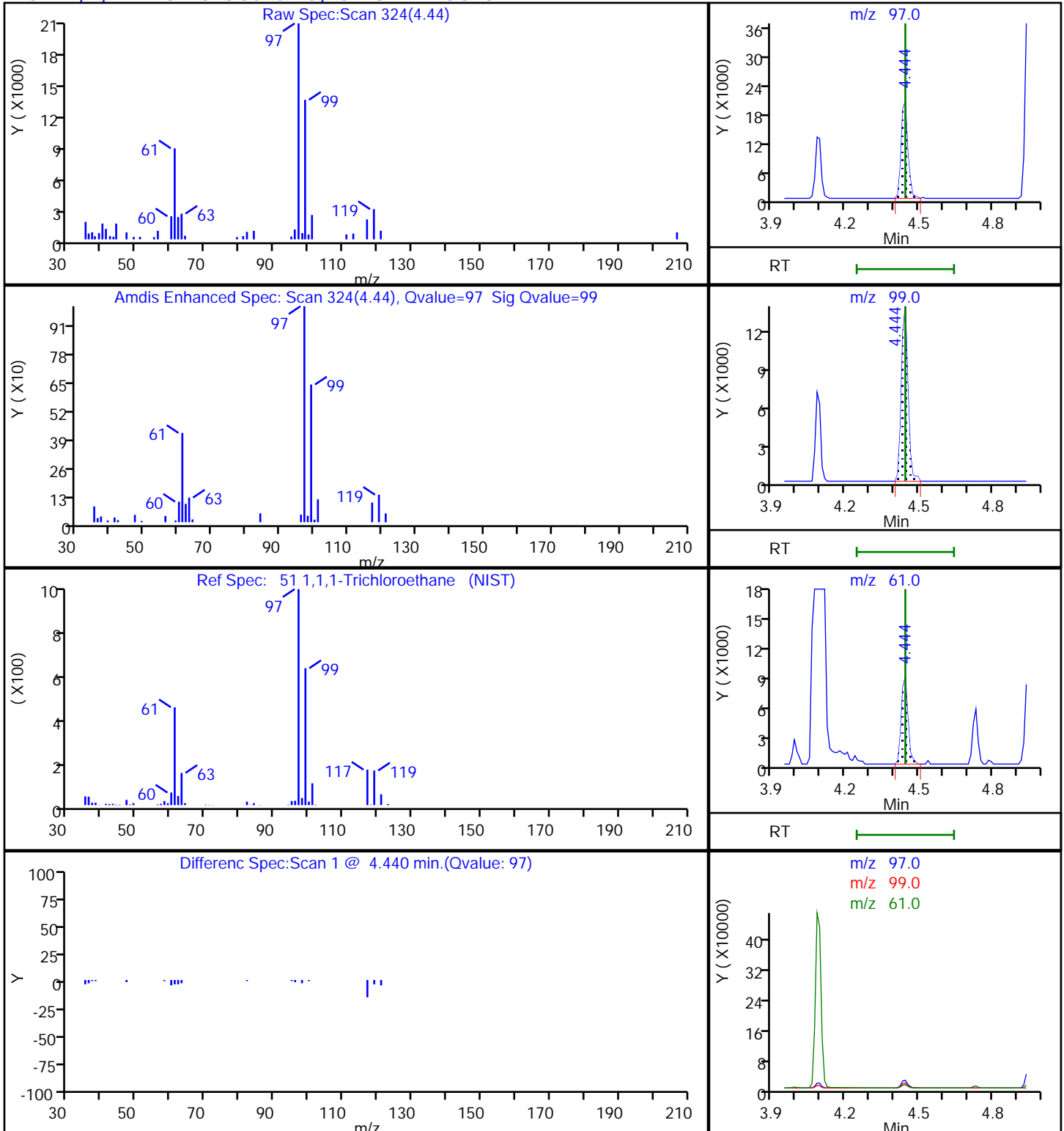
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

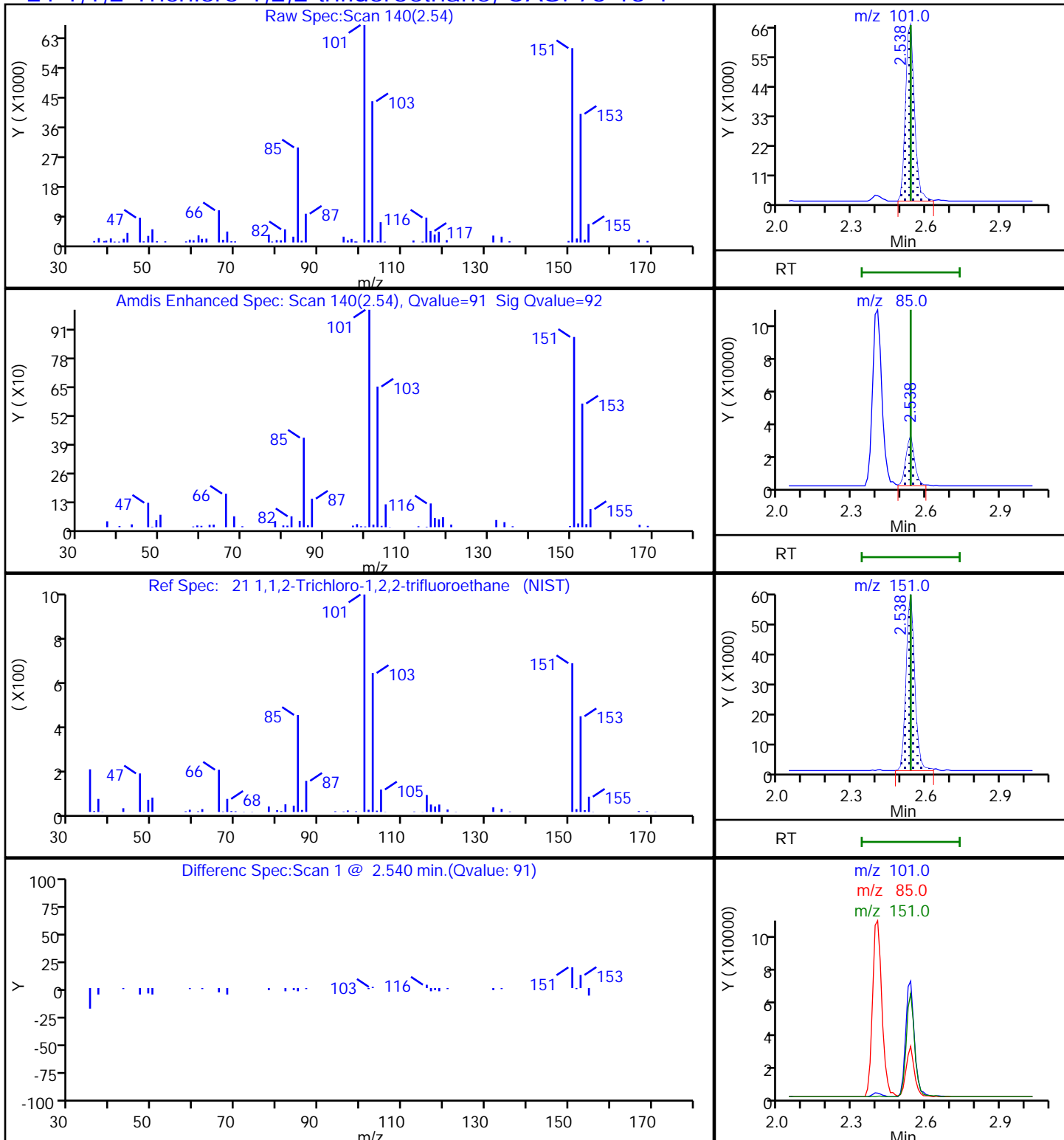
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

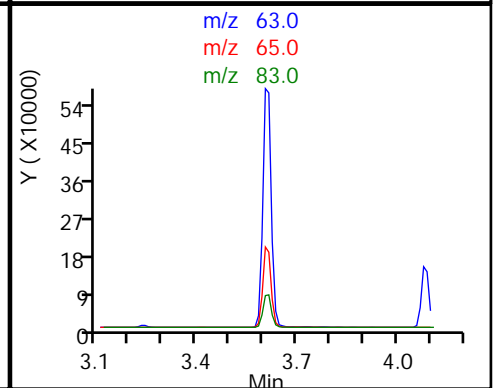
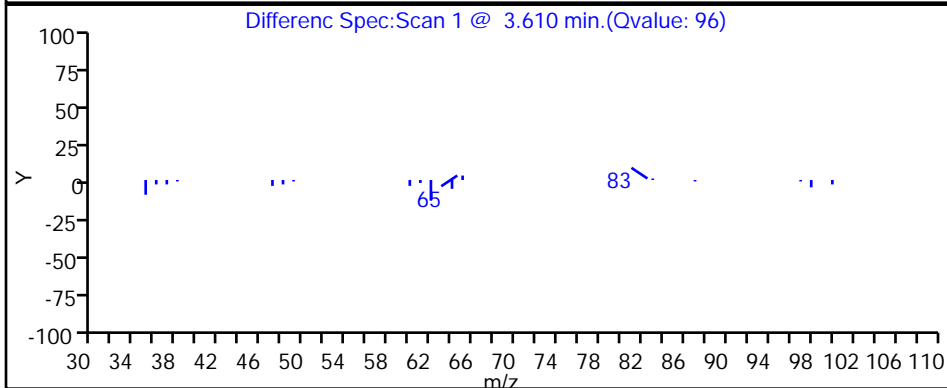
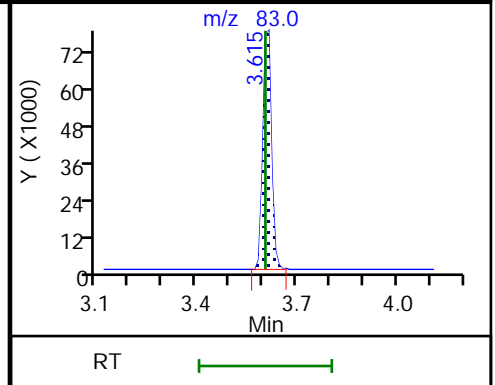
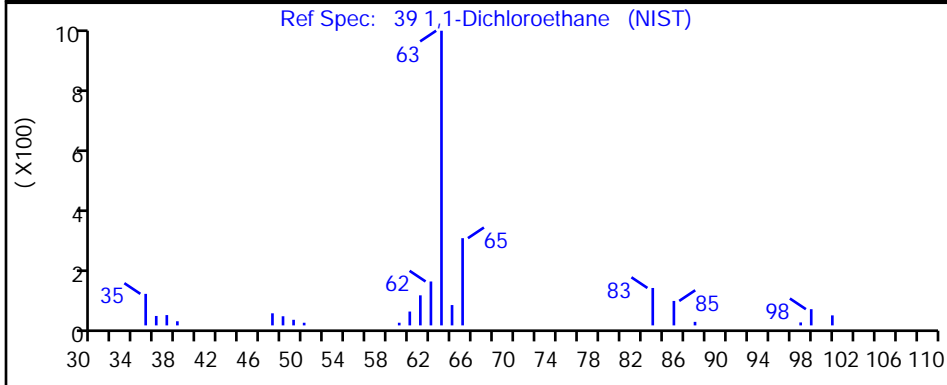
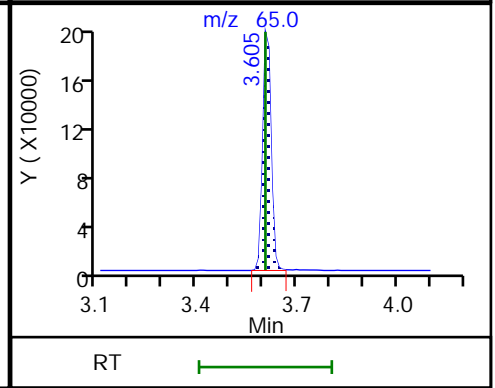
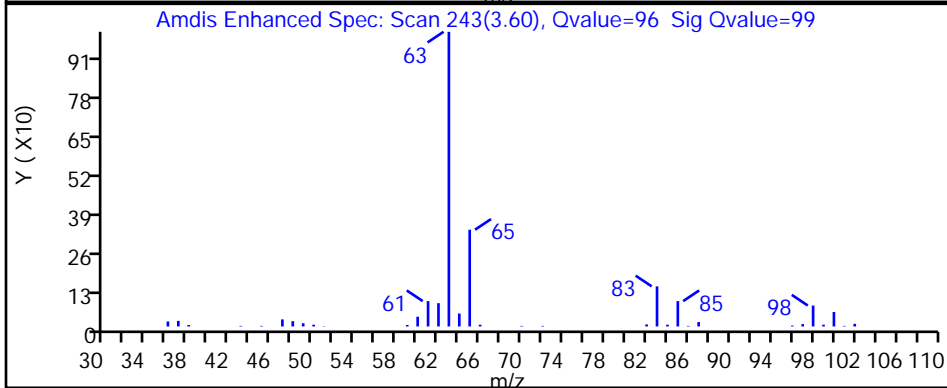
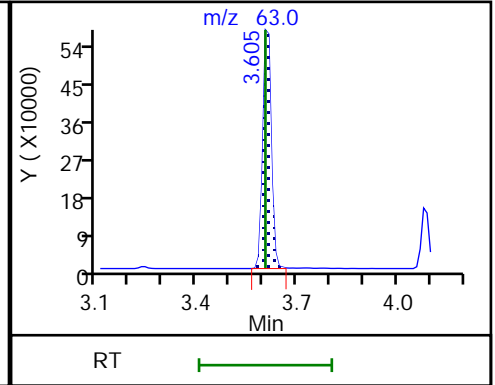
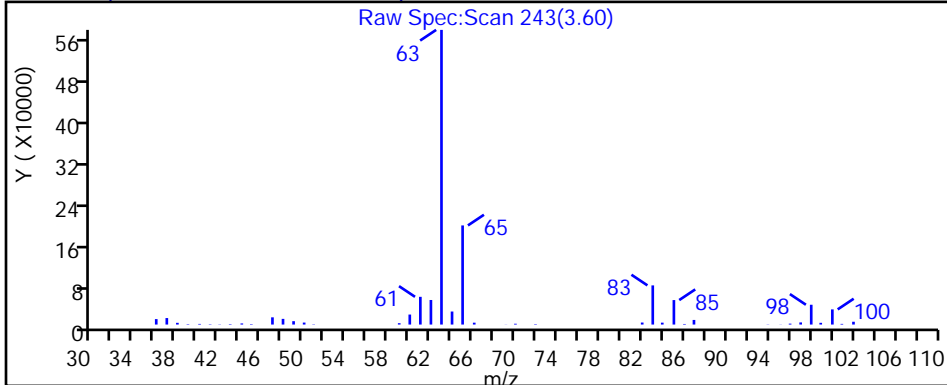
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

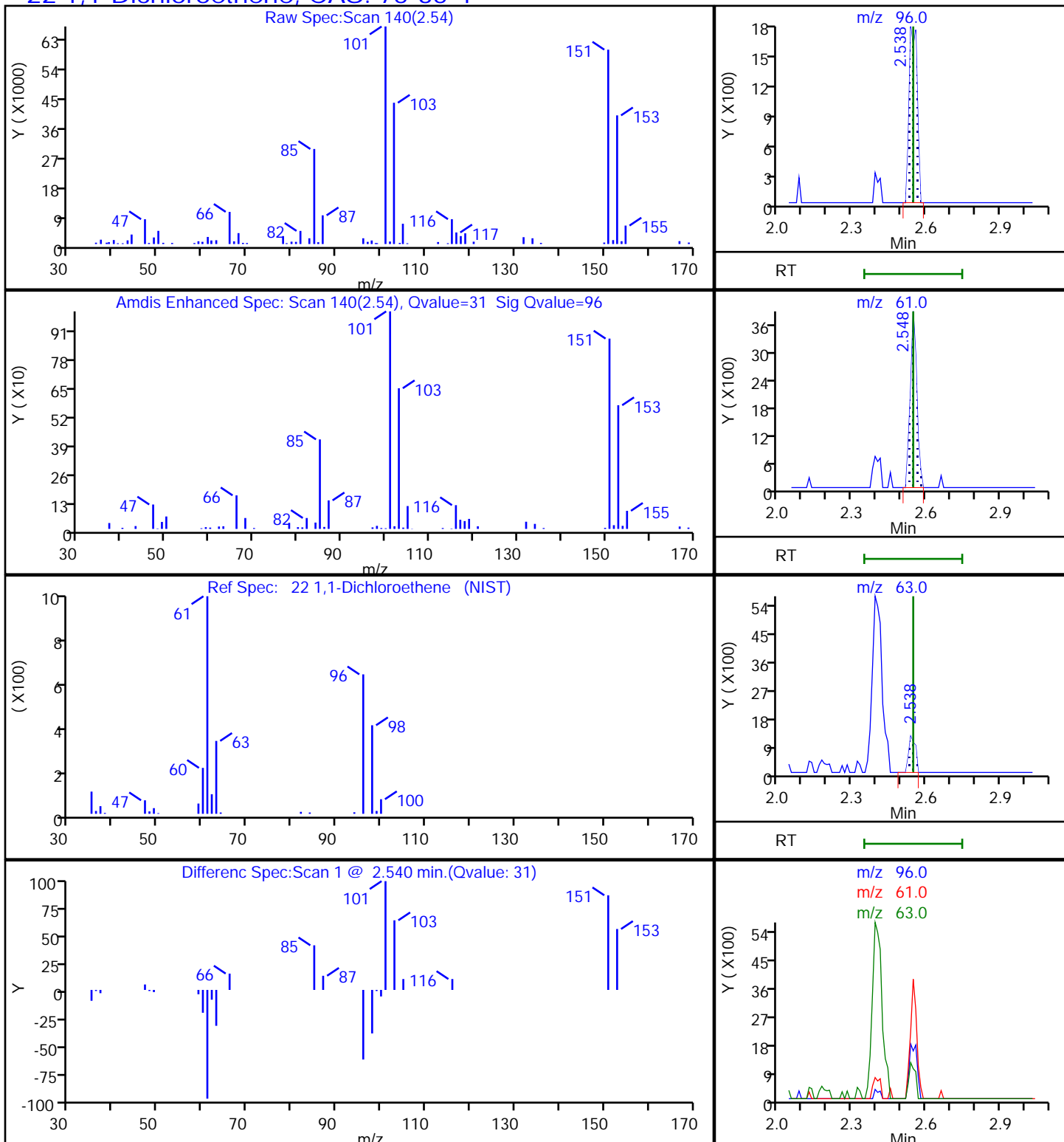
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

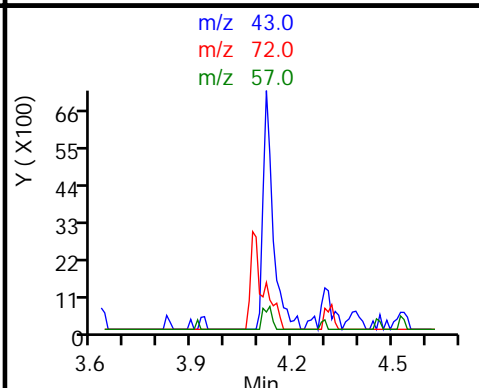
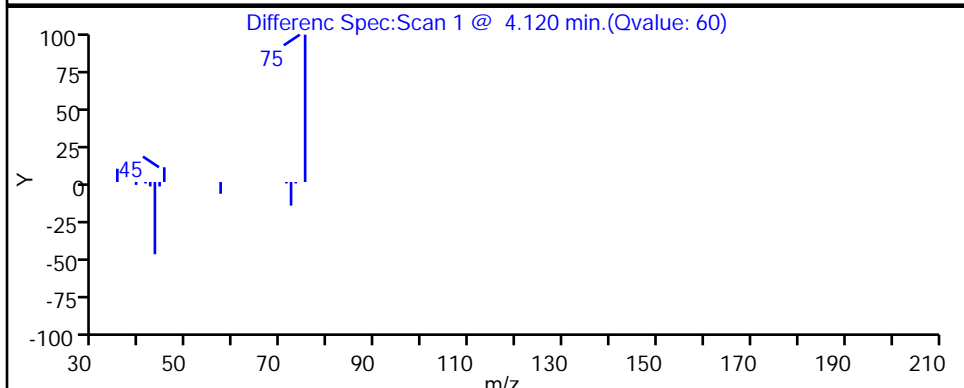
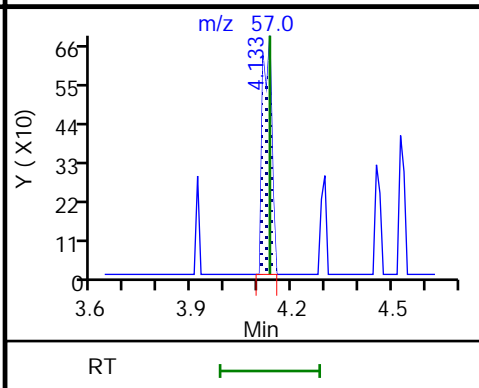
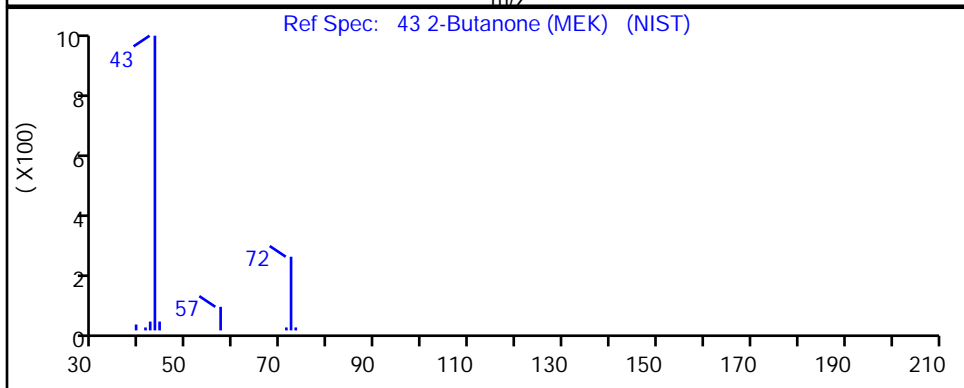
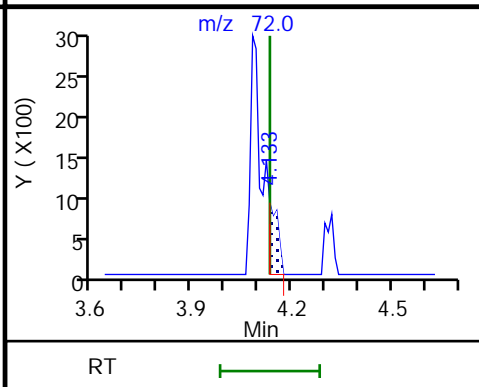
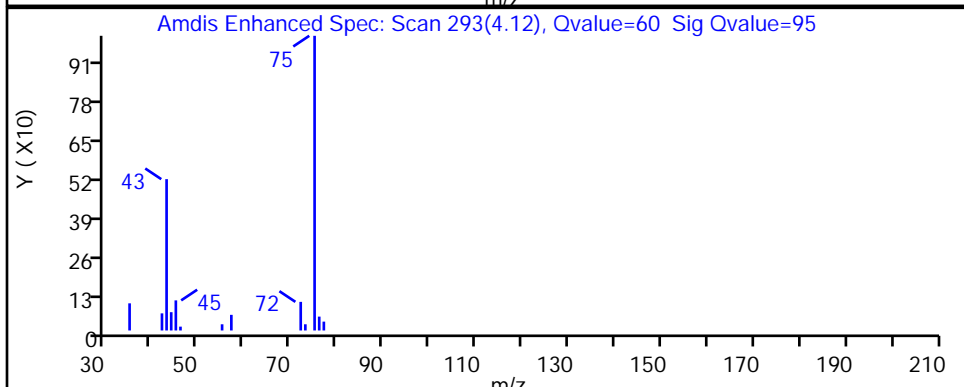
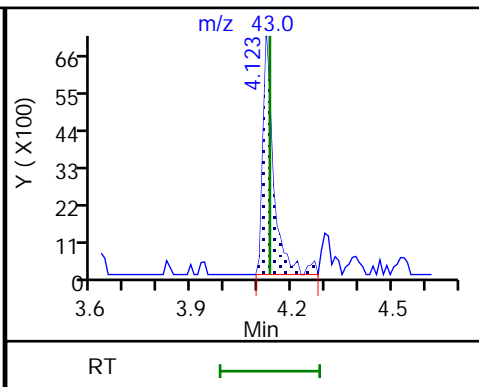
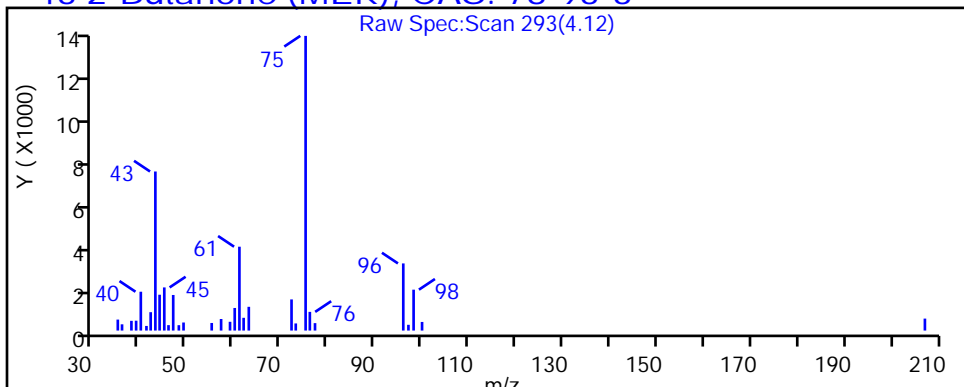
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

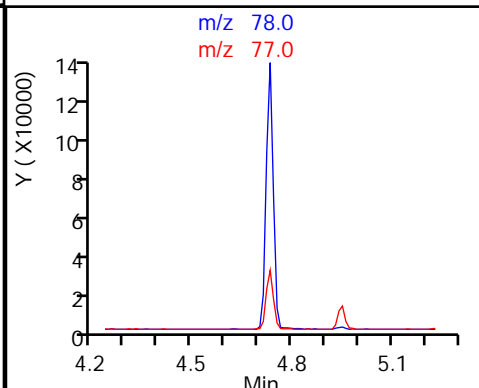
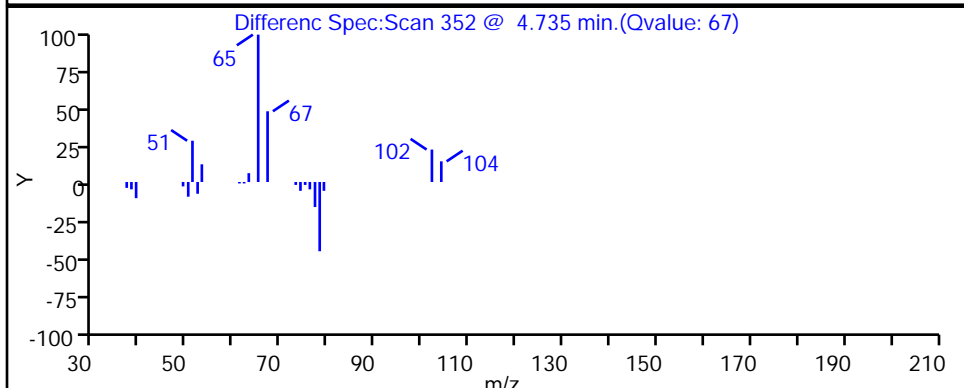
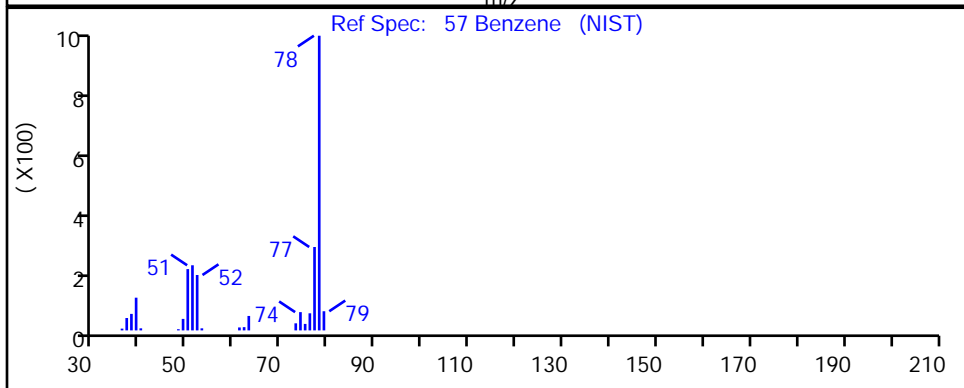
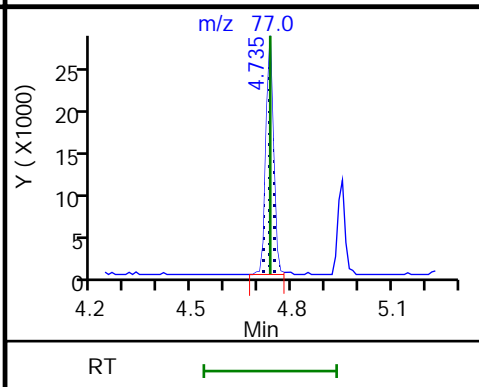
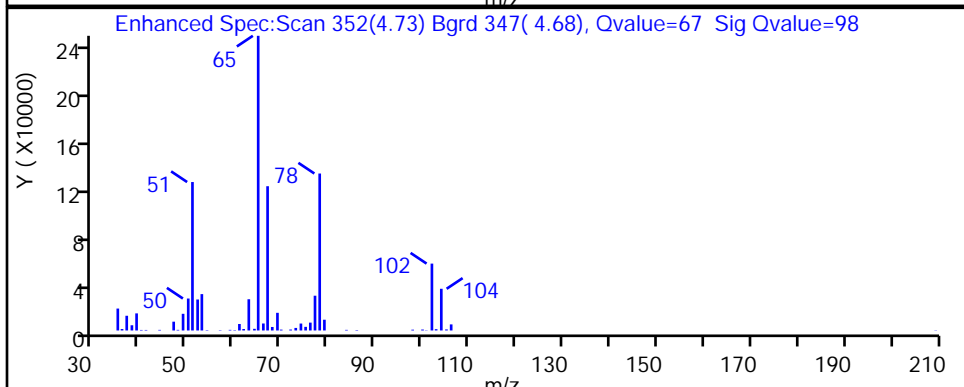
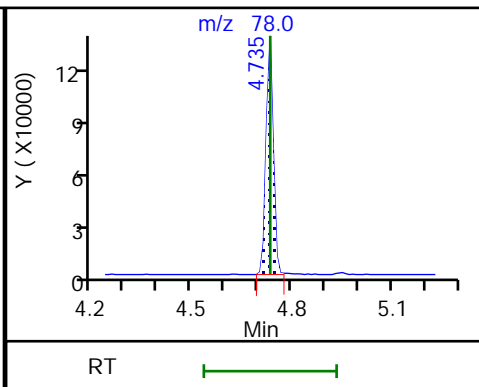
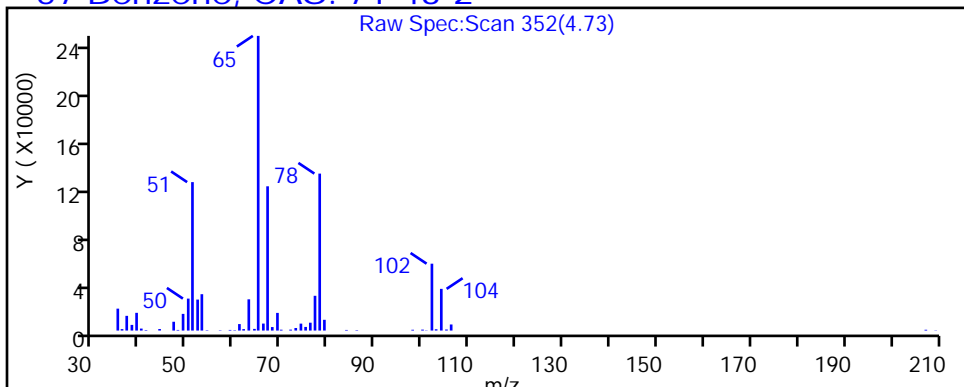
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

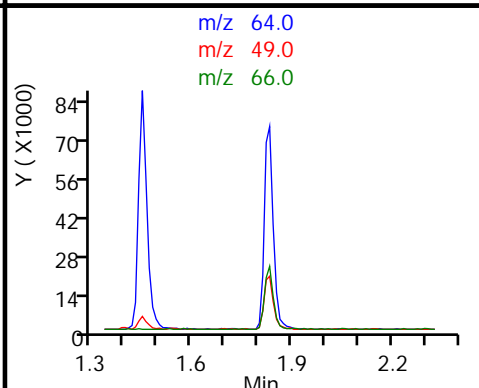
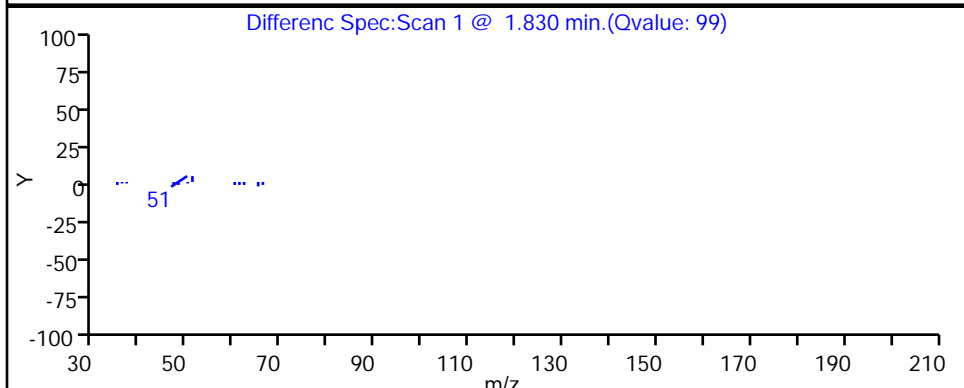
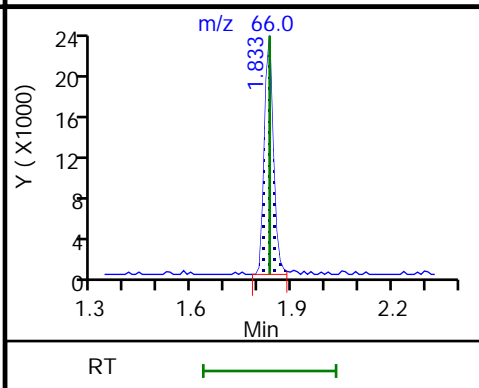
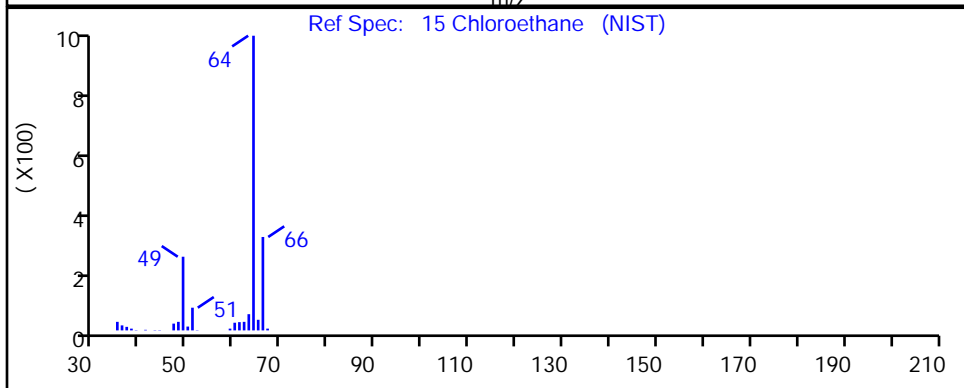
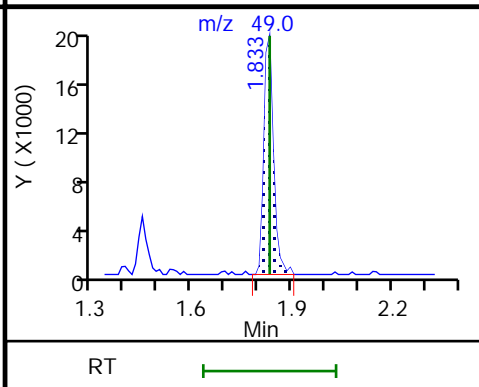
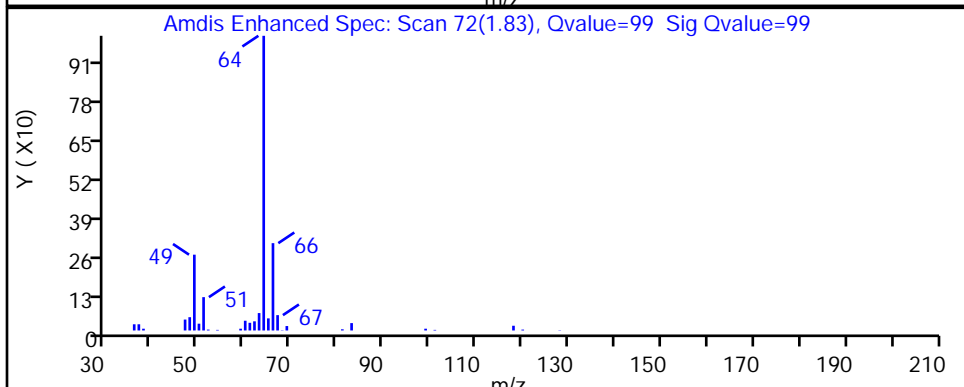
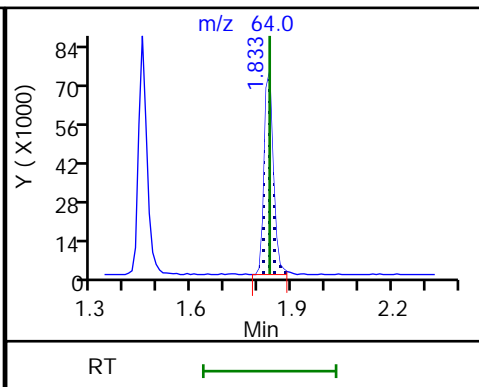
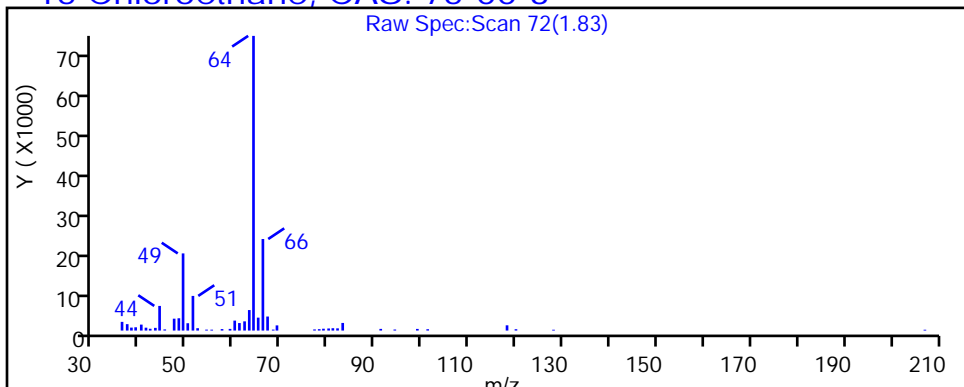
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

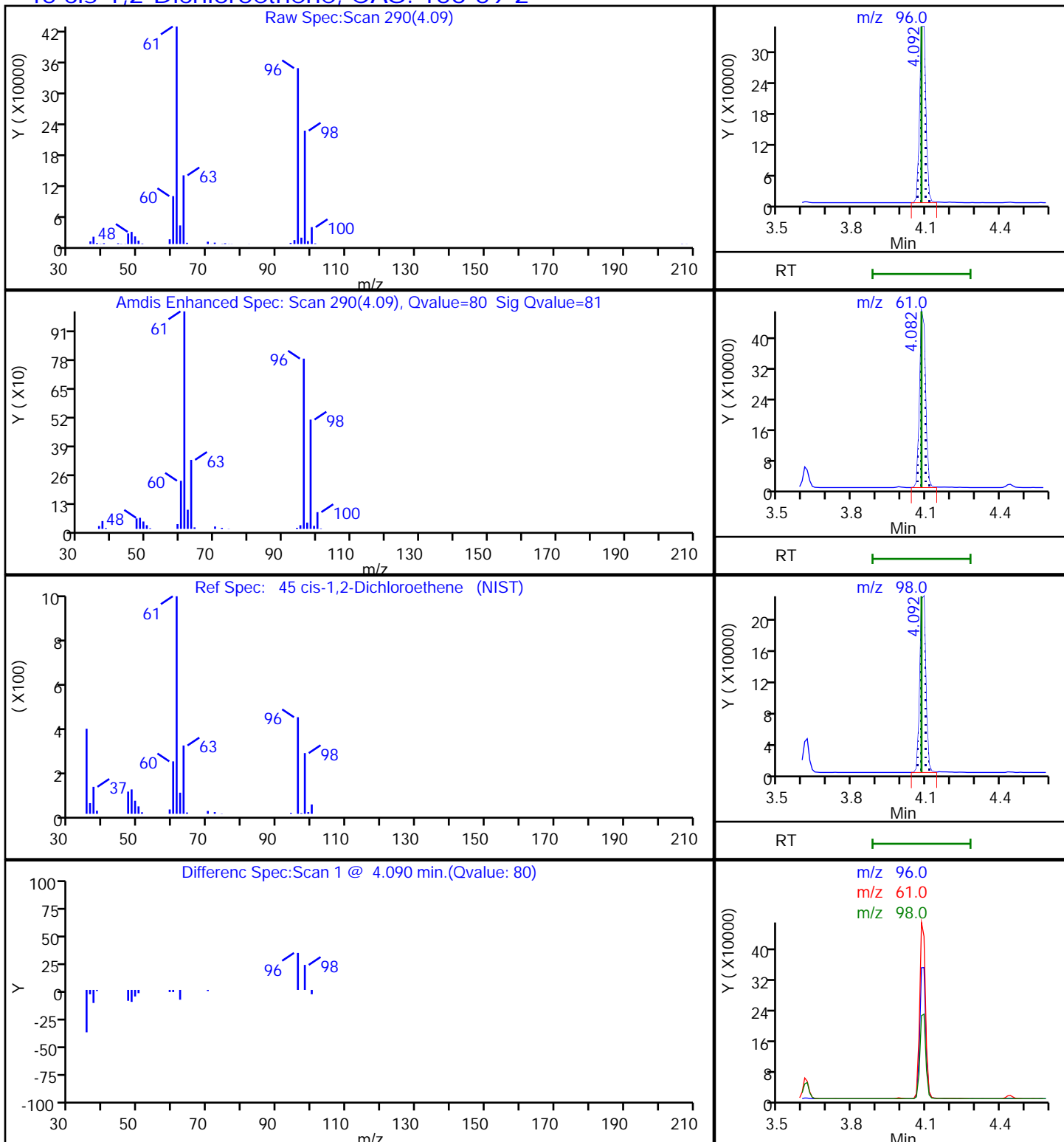
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

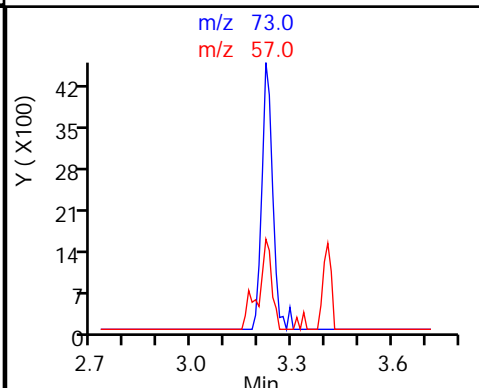
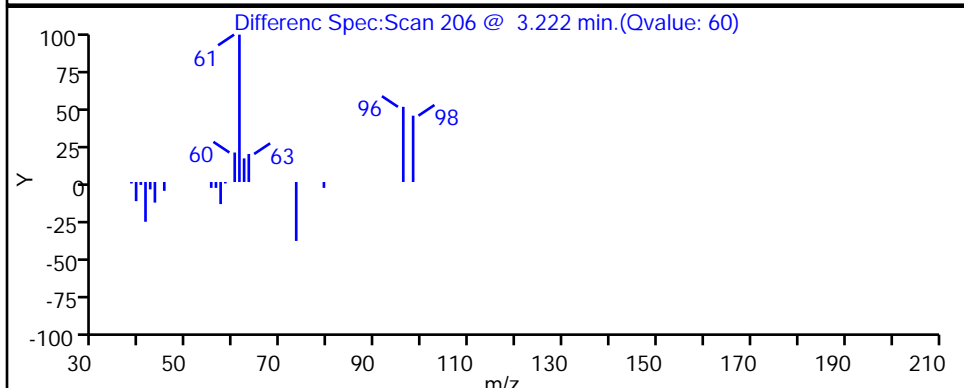
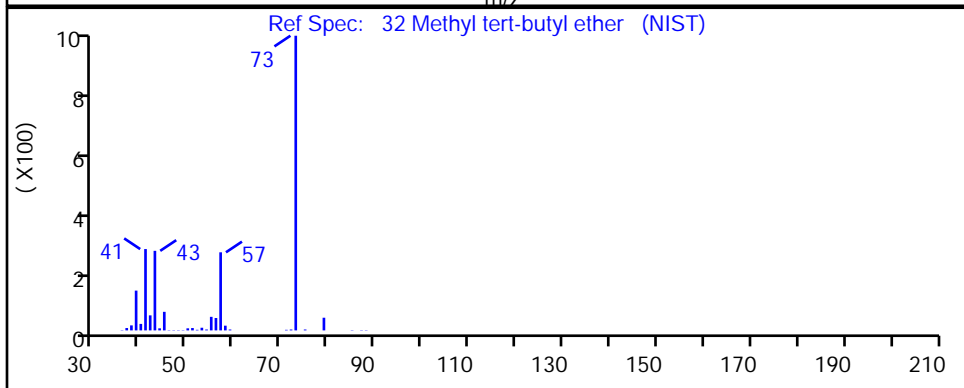
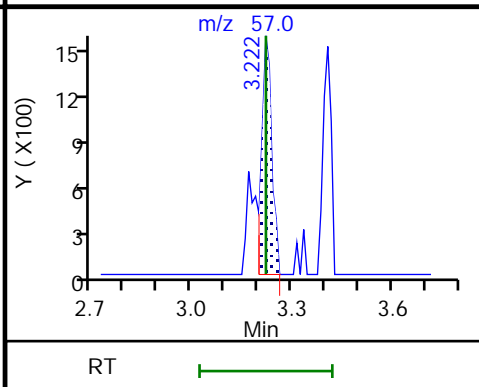
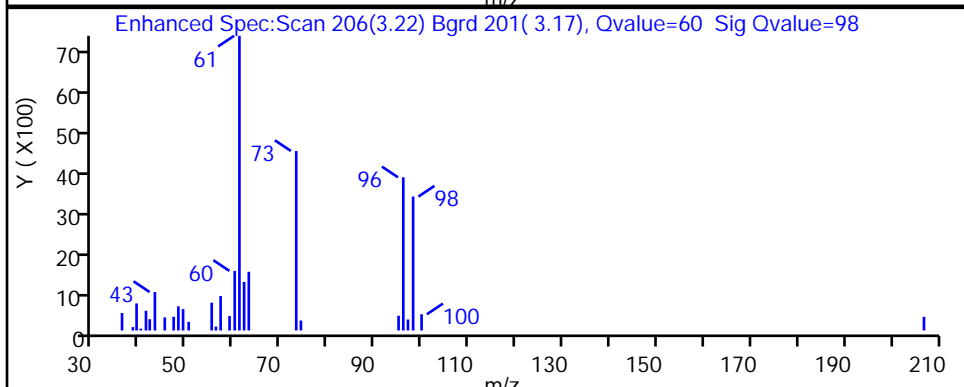
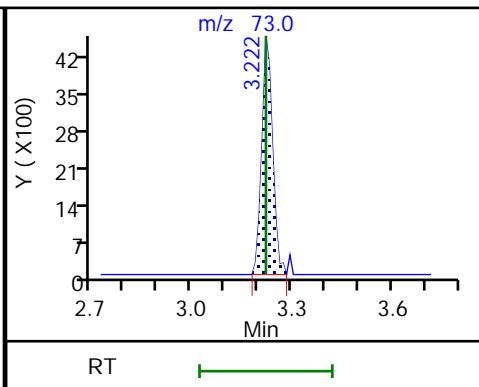
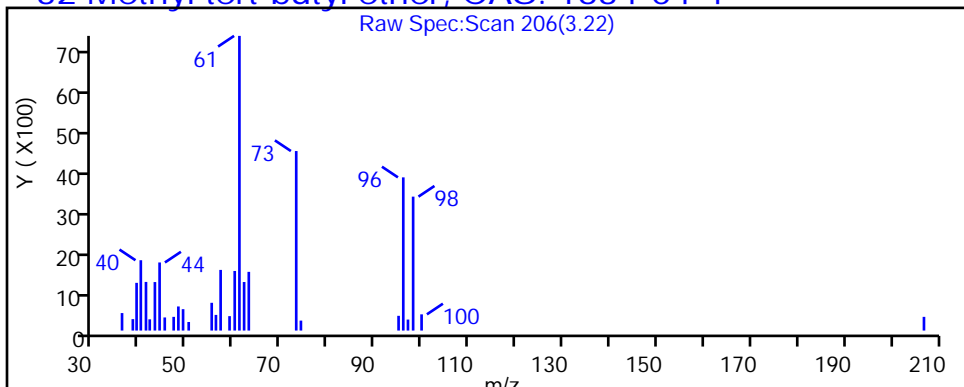
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

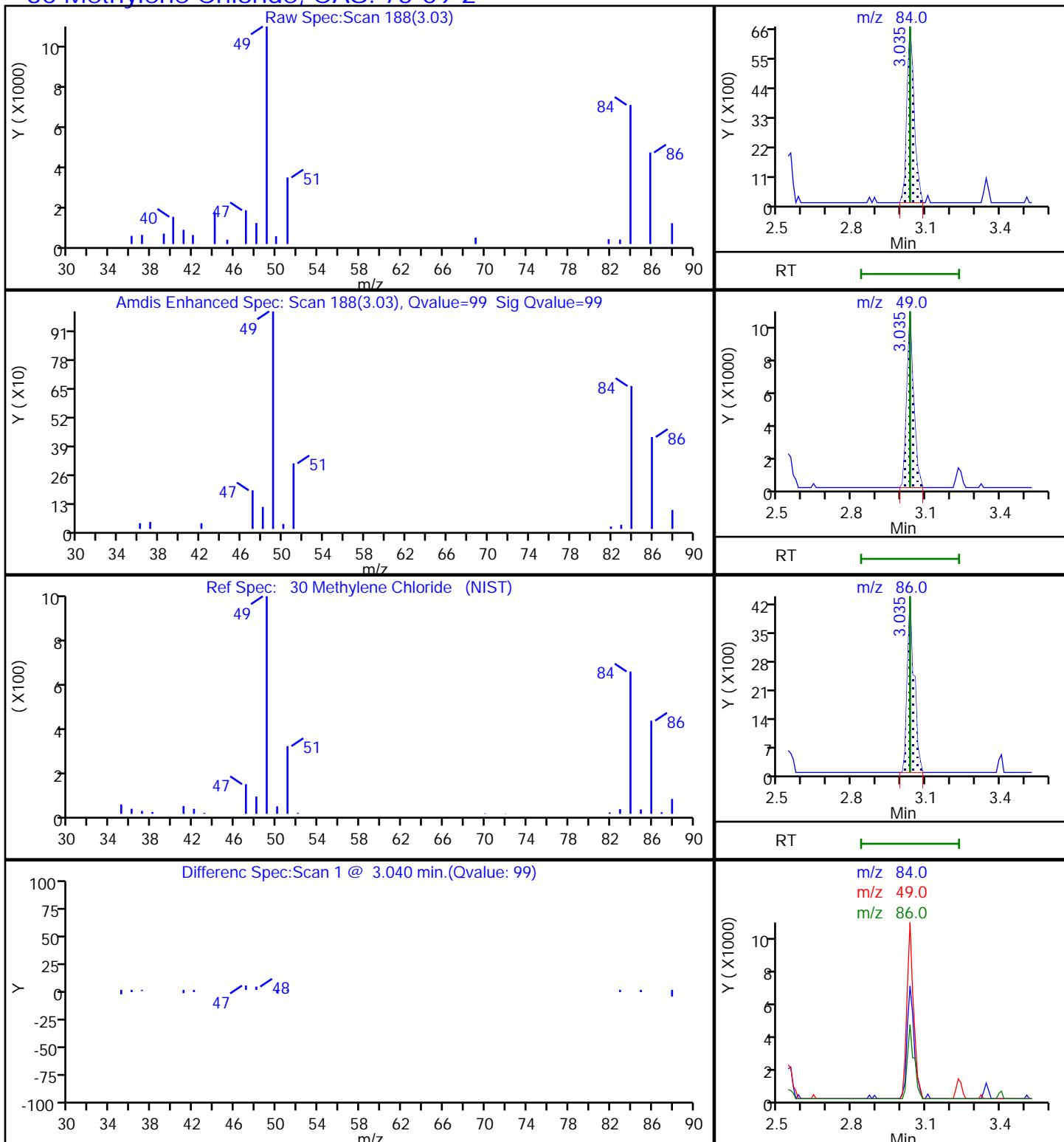
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

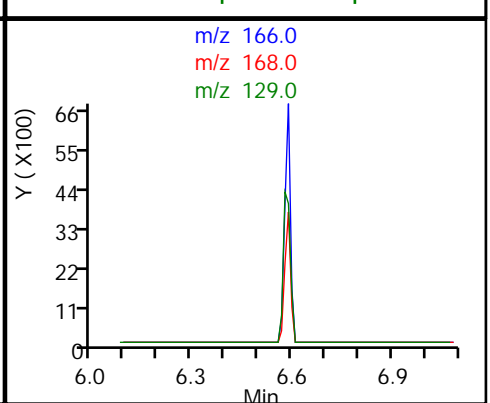
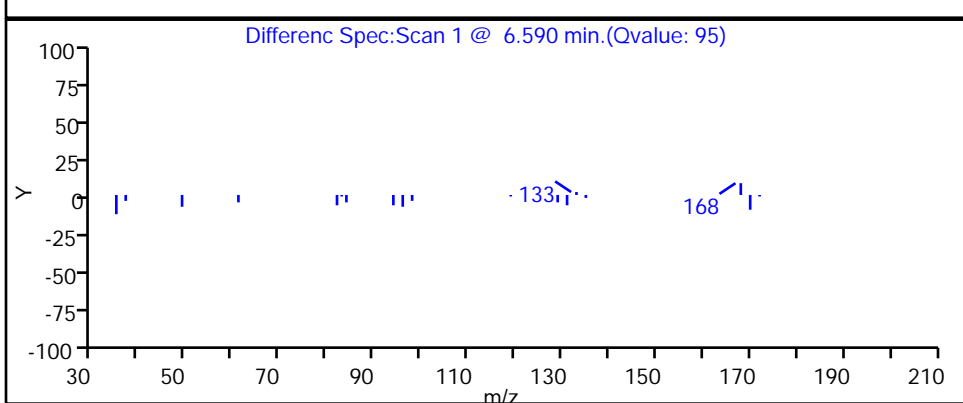
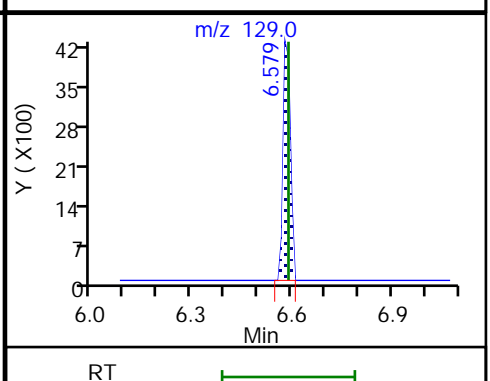
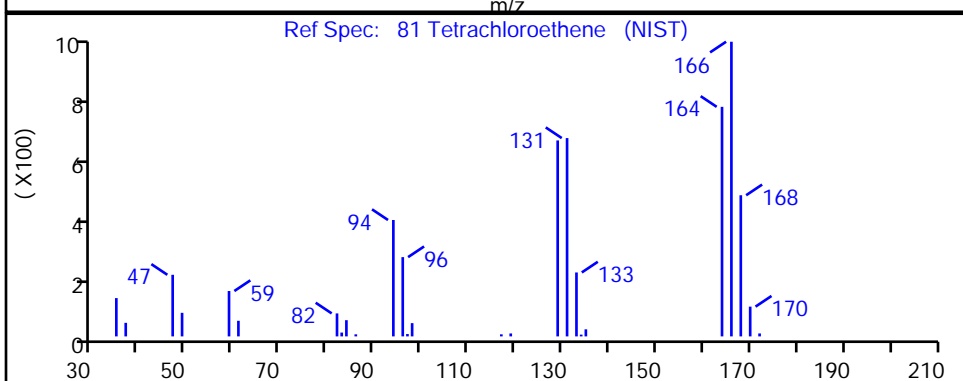
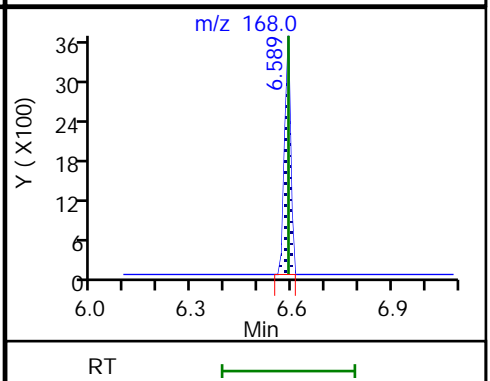
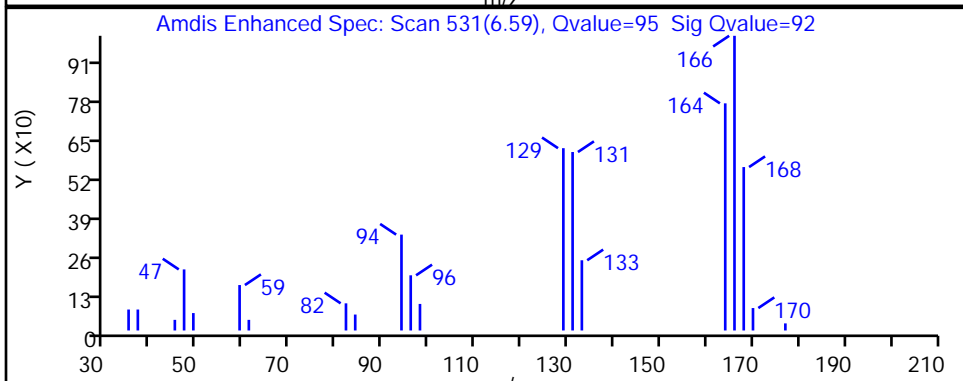
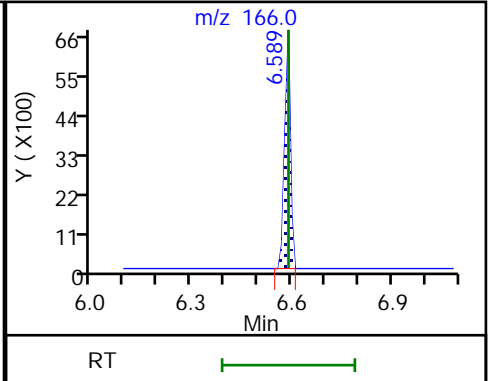
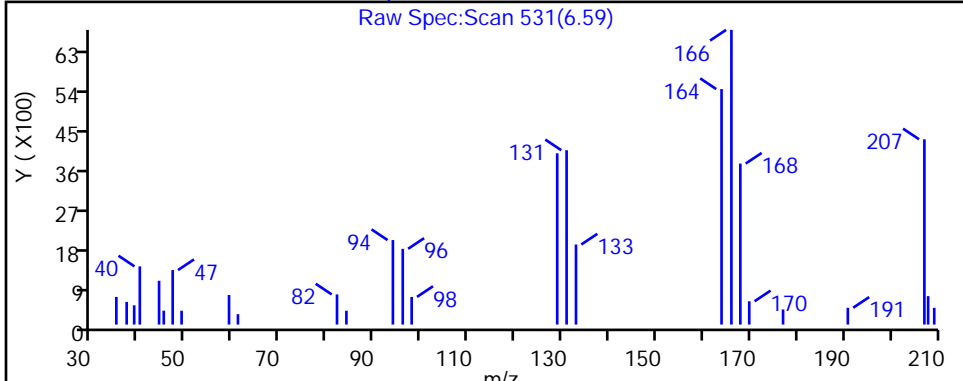
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

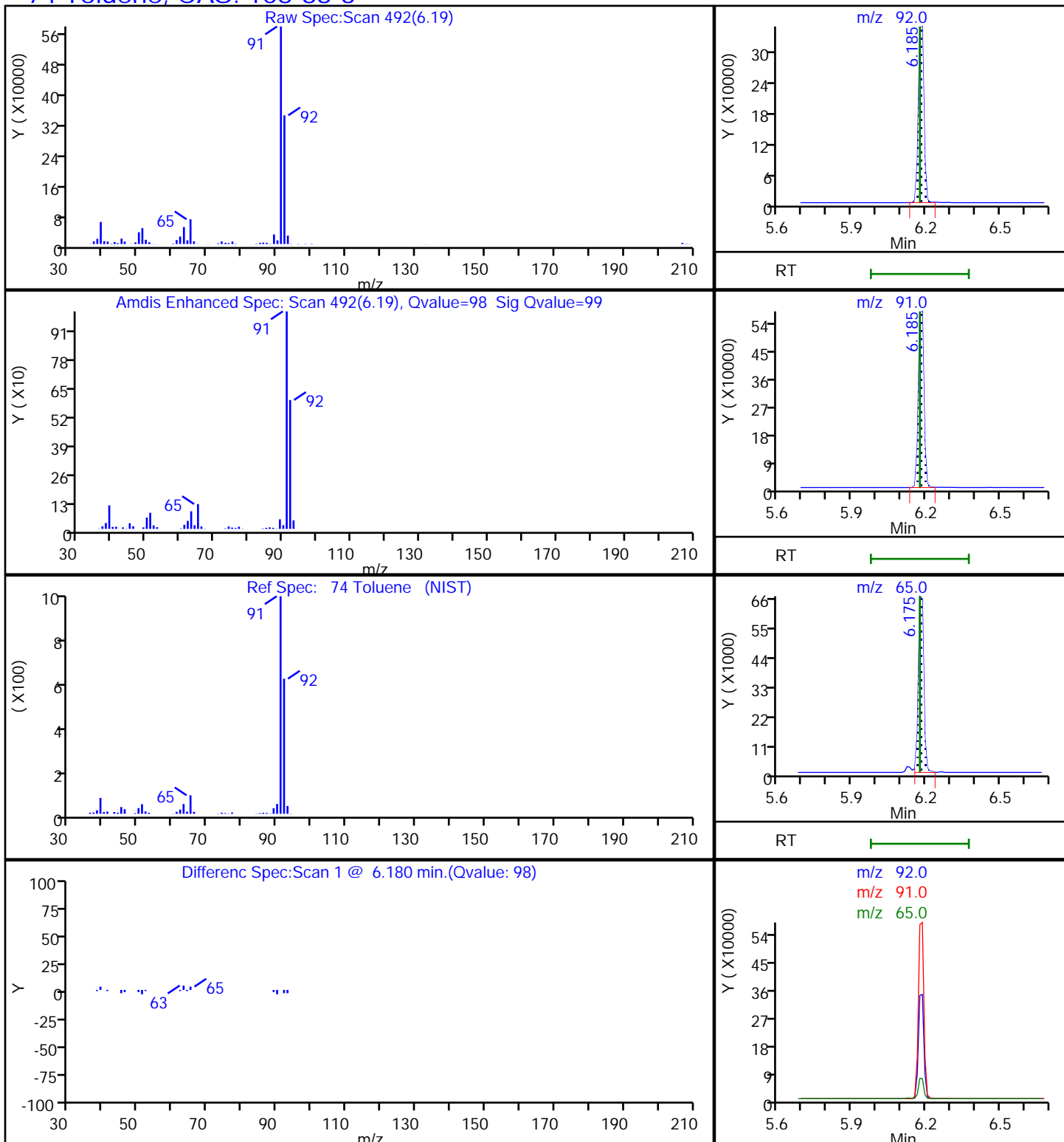
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

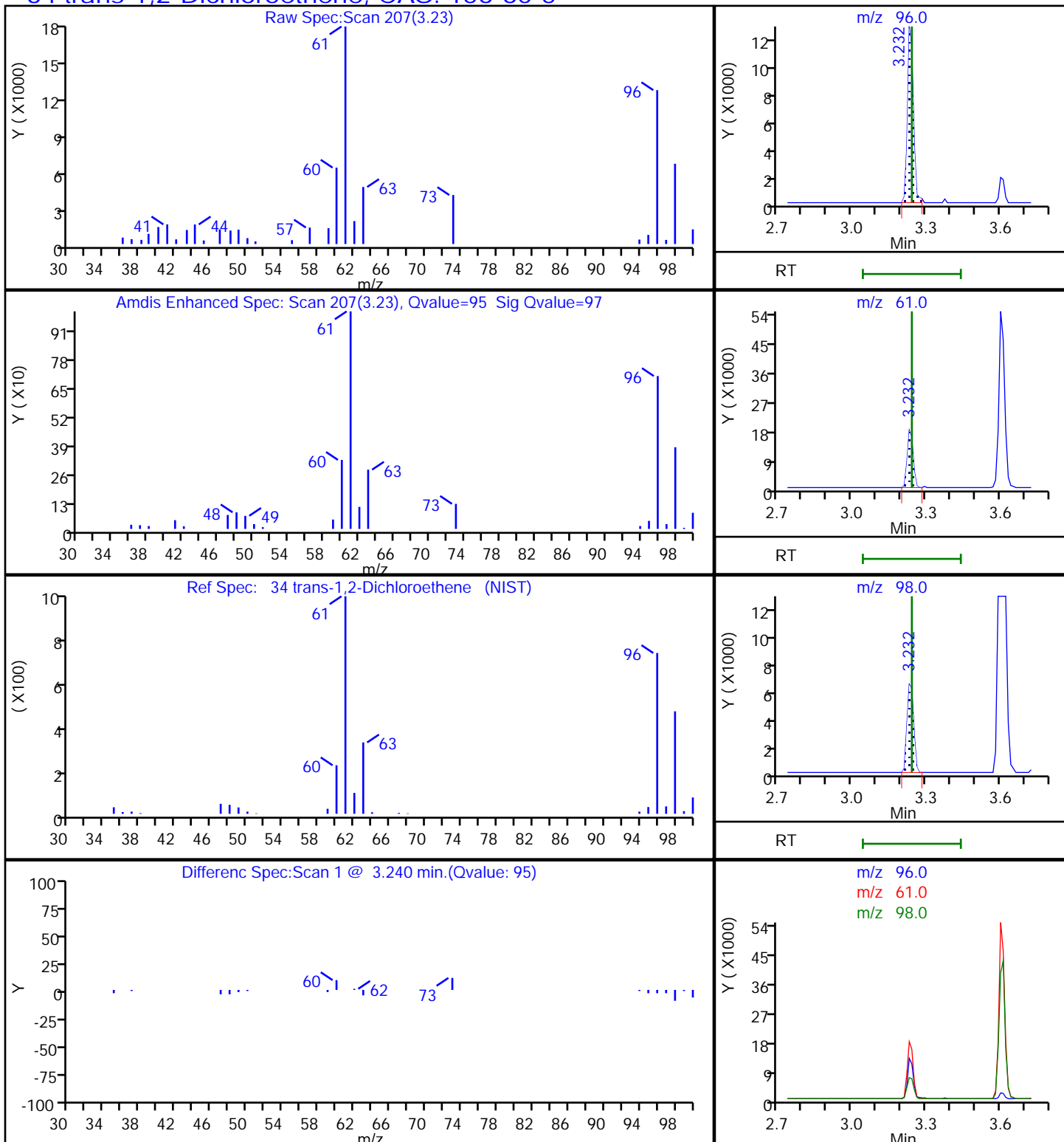
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

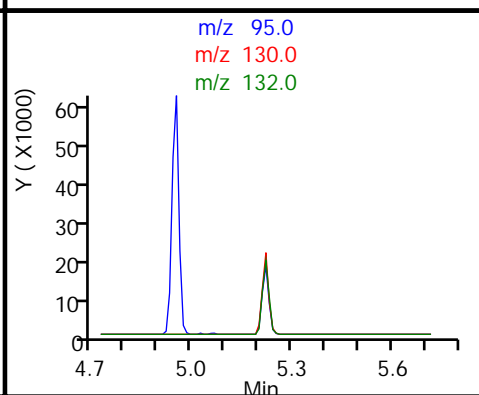
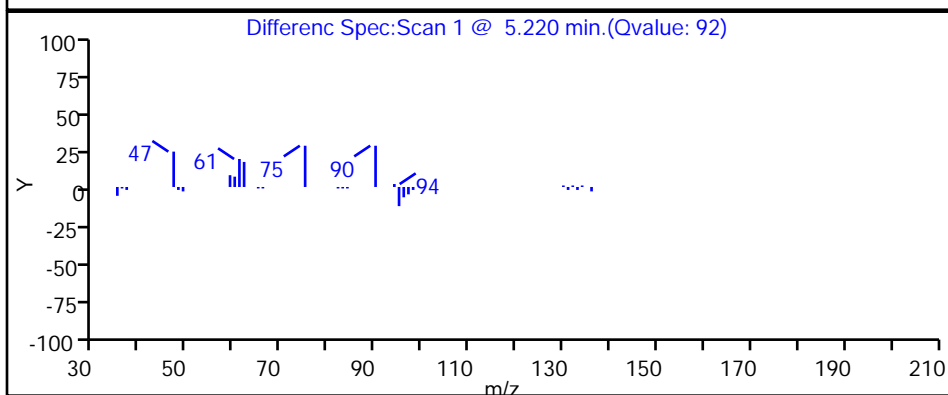
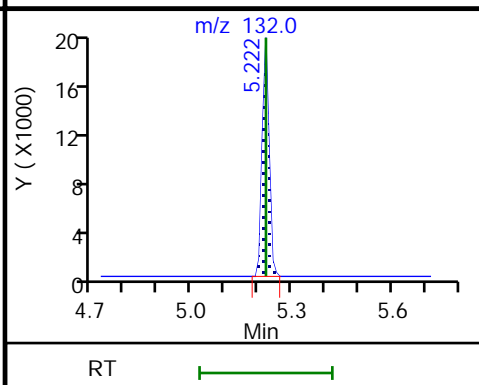
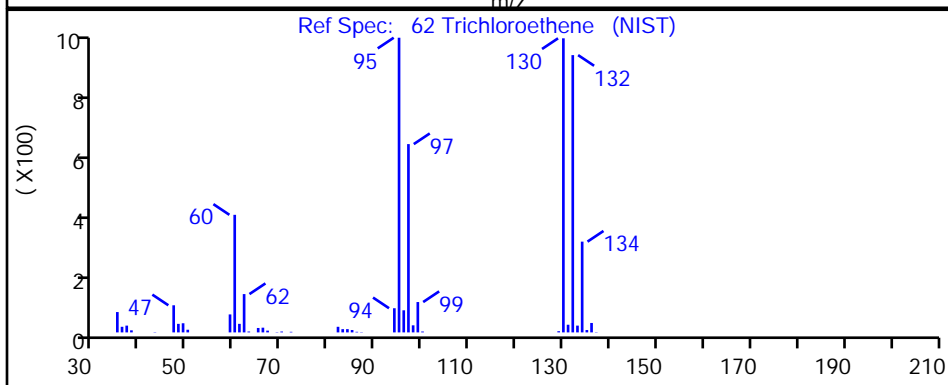
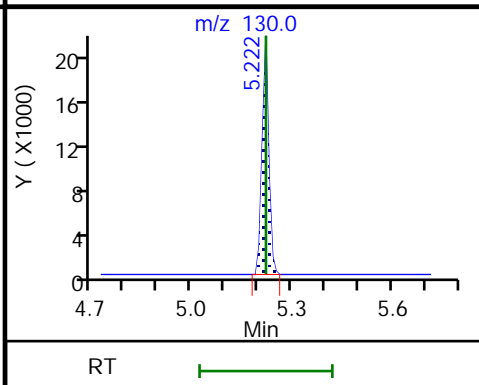
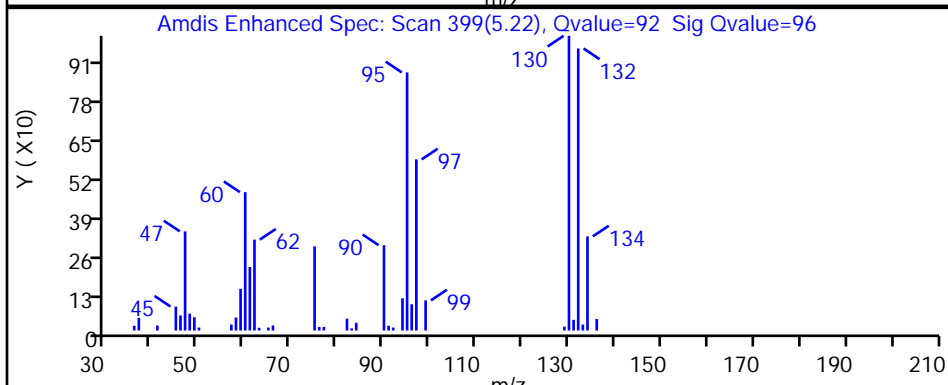
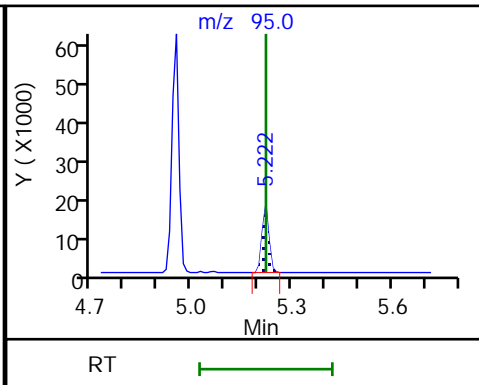
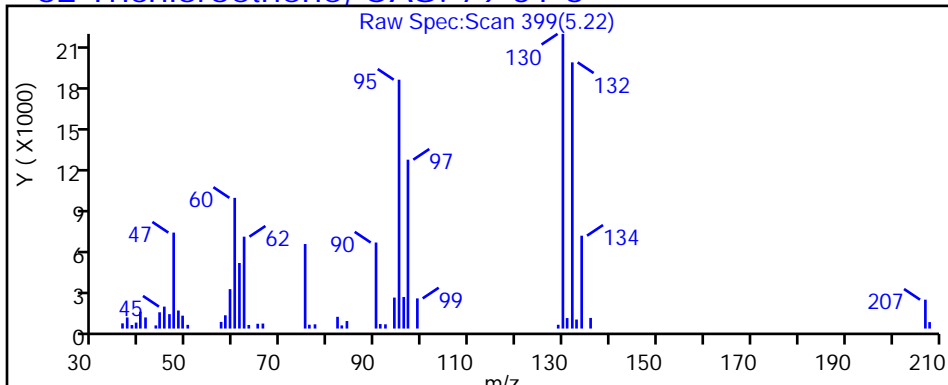
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

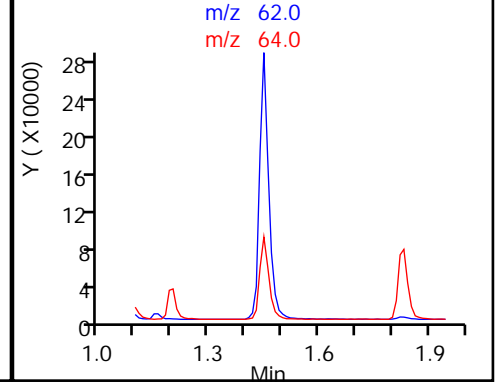
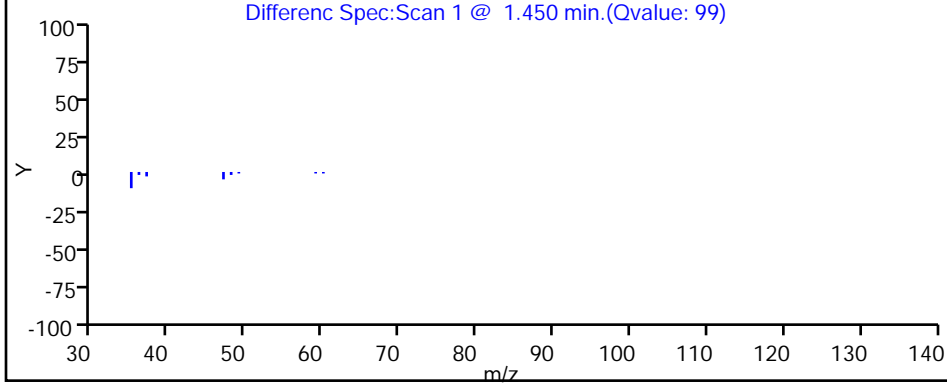
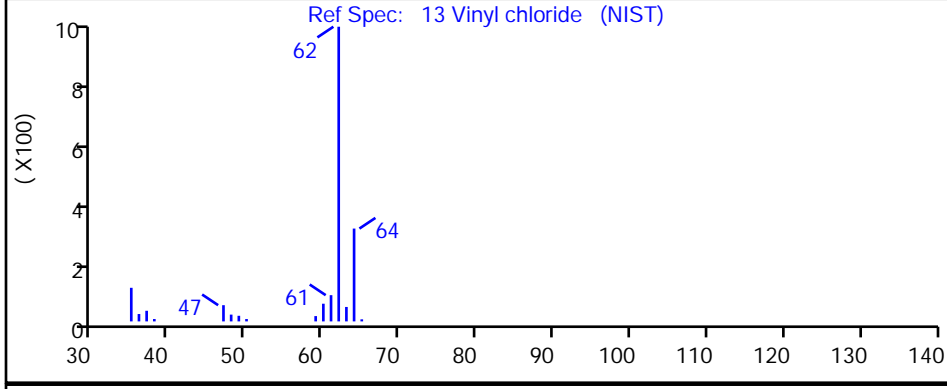
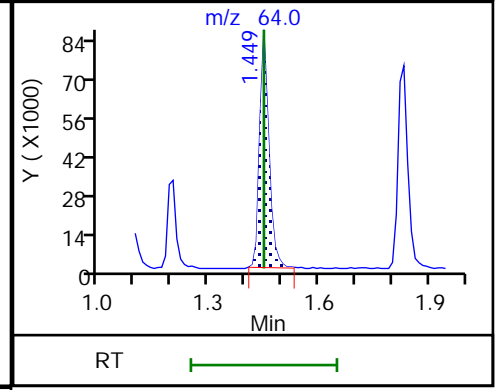
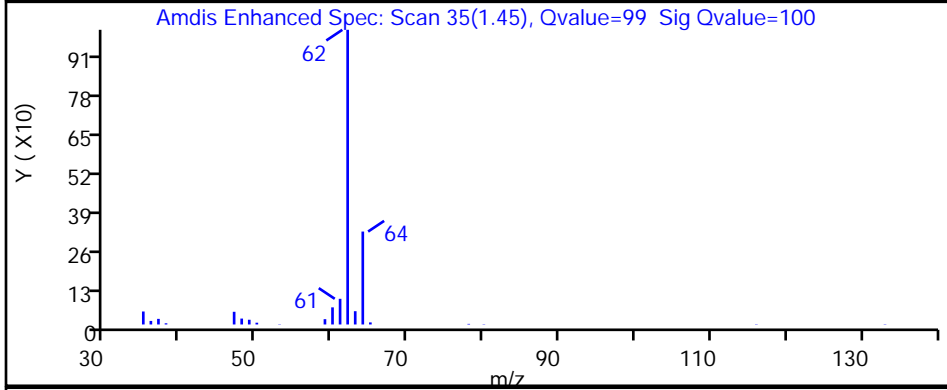
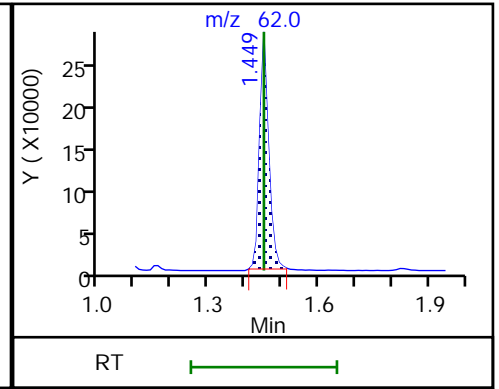
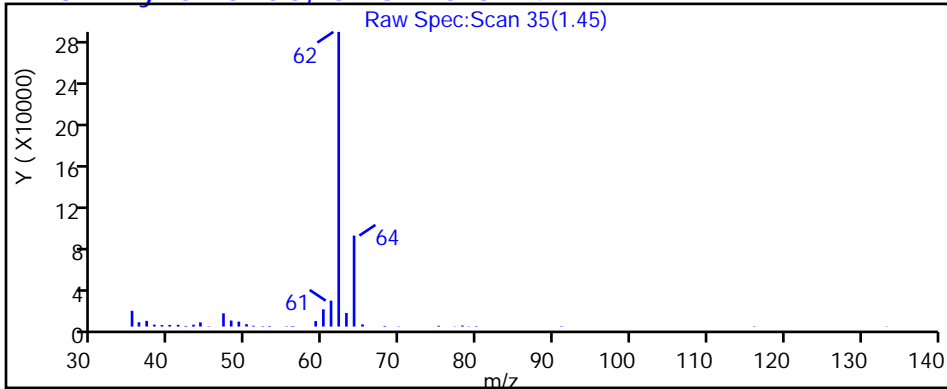
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

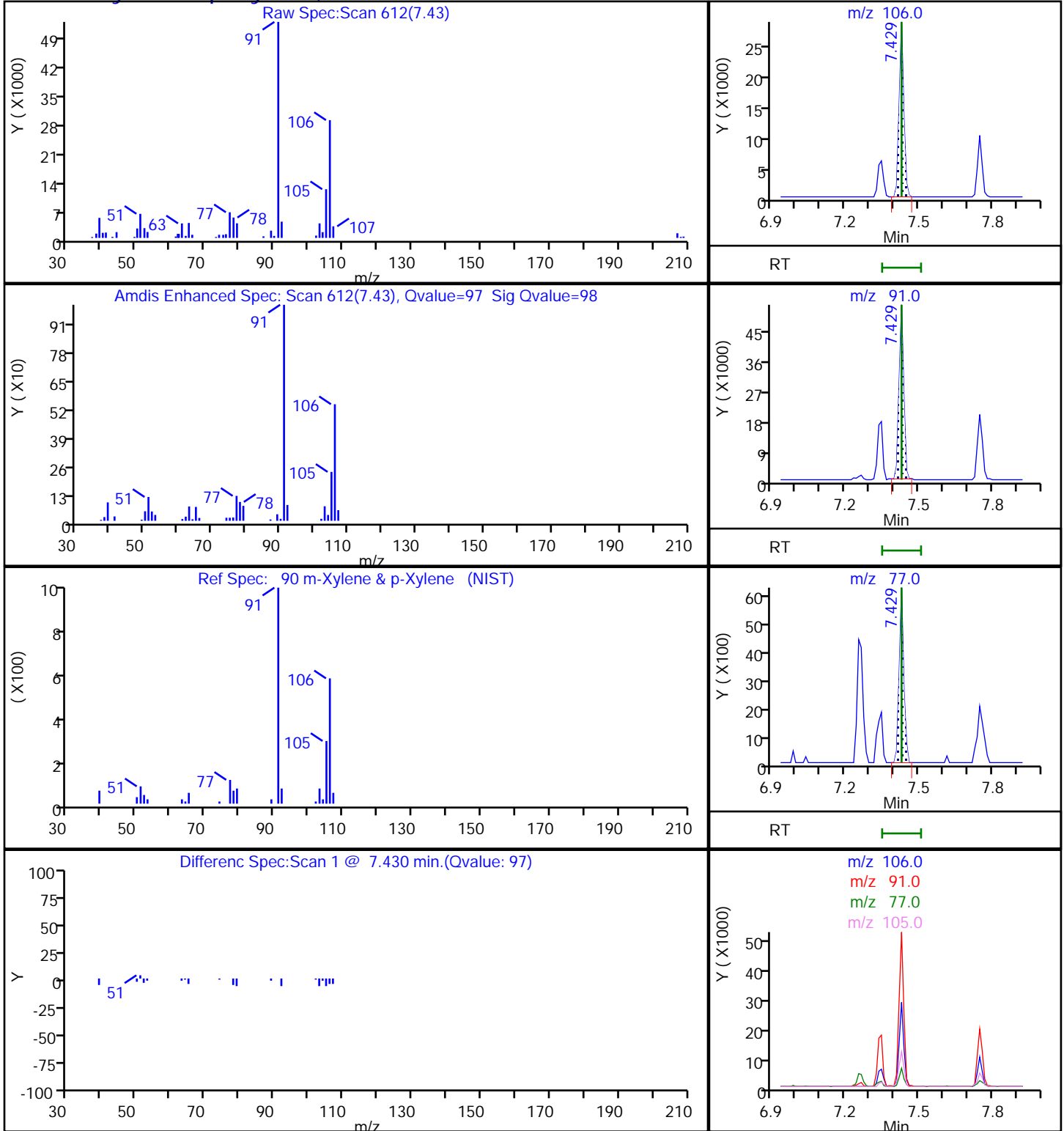
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-71

Operator ID: NC

ALS Bottle#: 17

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

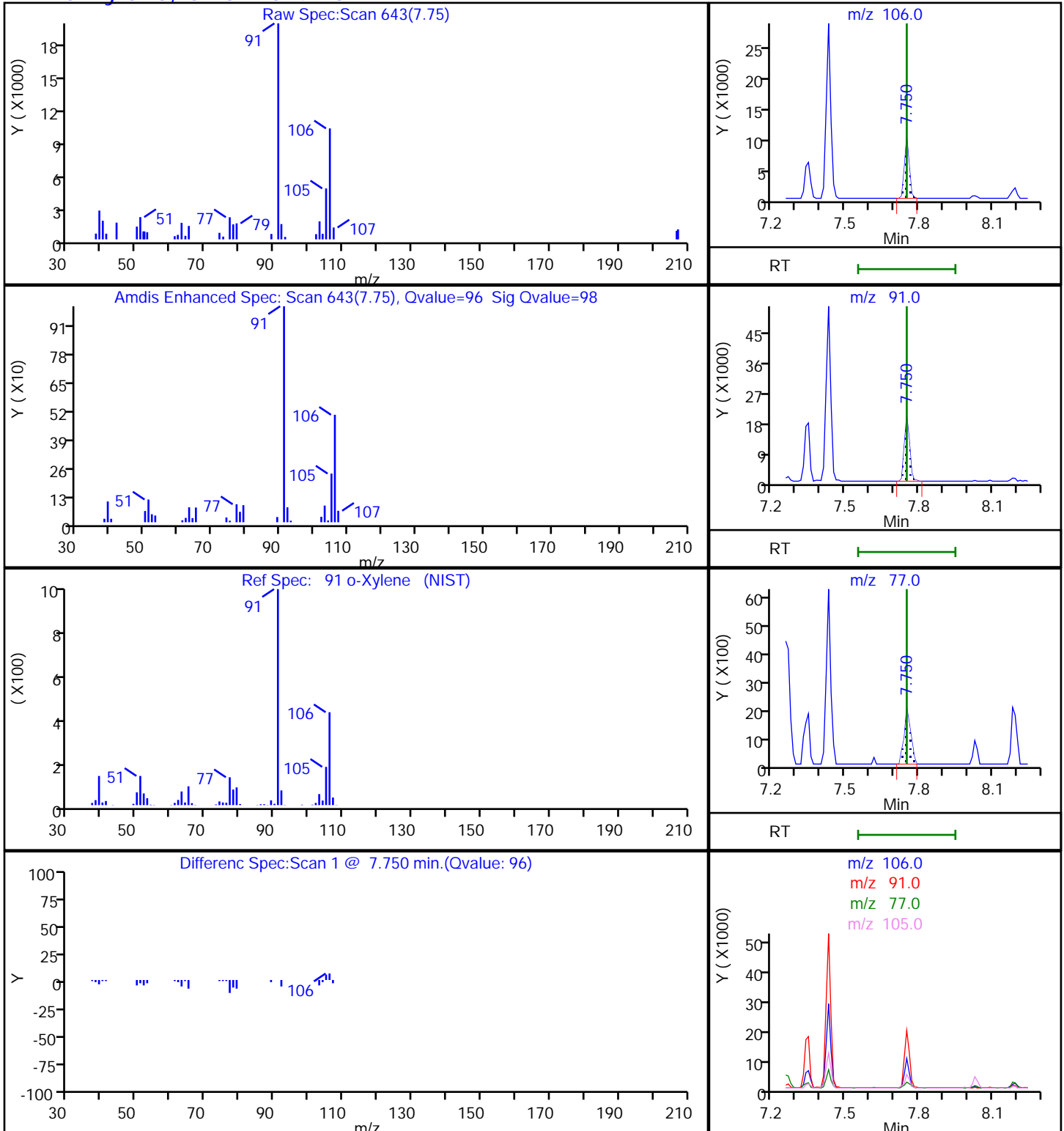
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

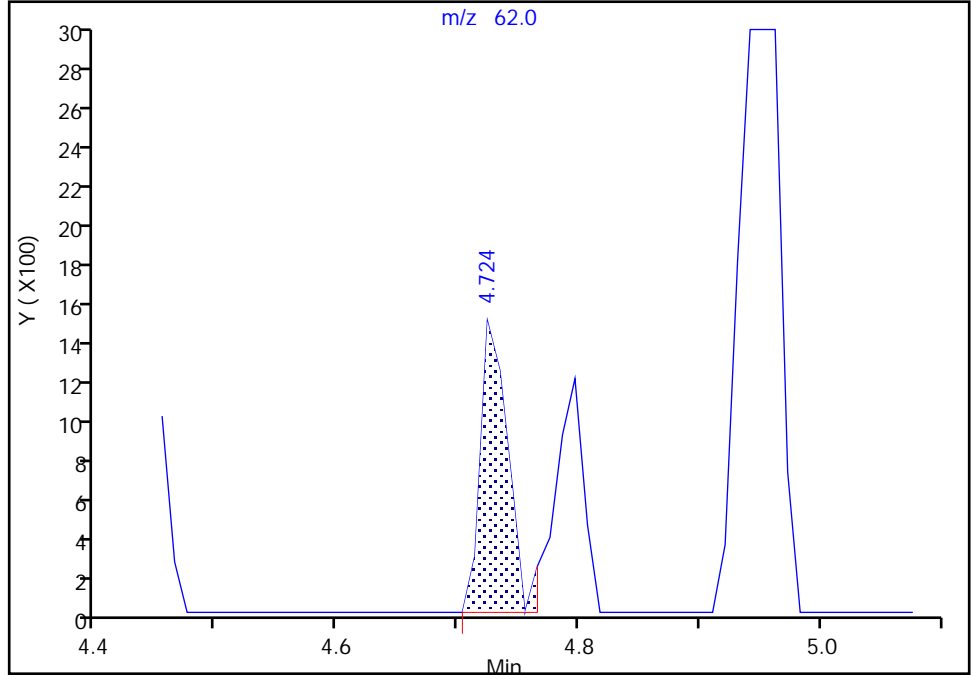
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

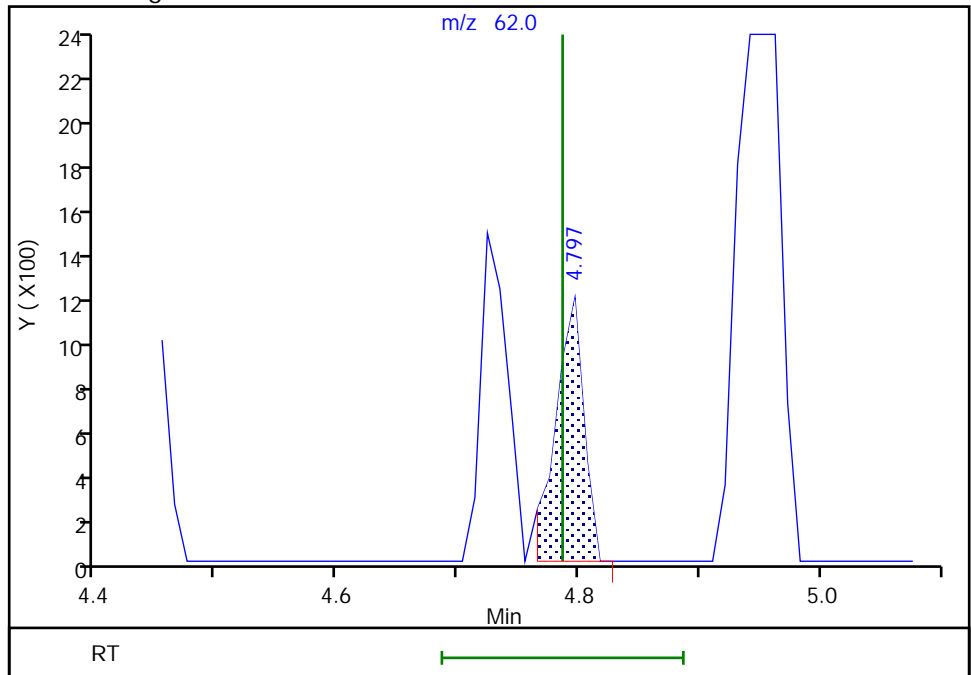
RT: 4.72
Area: 2360
Amount: 0.116669
Amount Units: ug/L

Processing Integration Results



RT: 4.80
Area: 1922
Amount: 0.095016
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

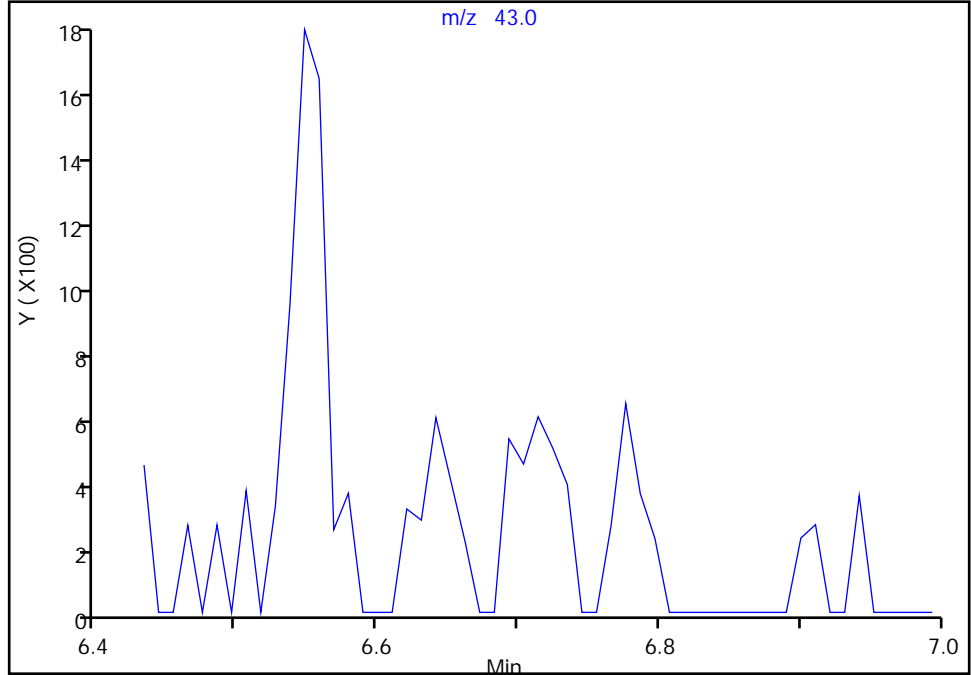
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

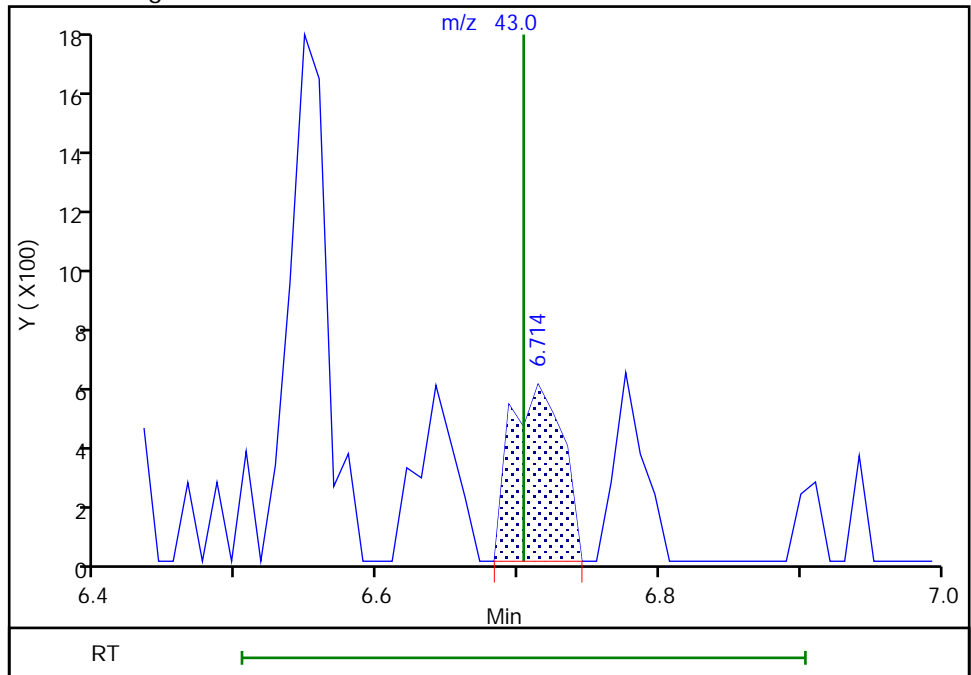
Not Detected
Expected RT: 6.70

Processing Integration Results



Manual Integration Results

RT: 6.71
Area: 1544
Amount: 0.147232
Amount Units: ug/L



TestAmerica Buffalo

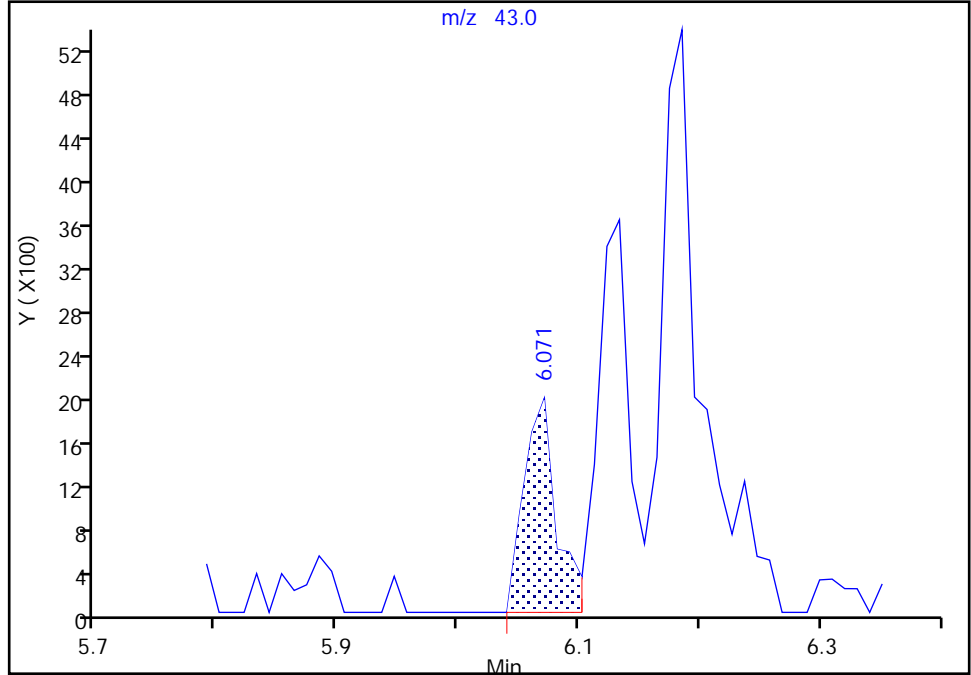
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

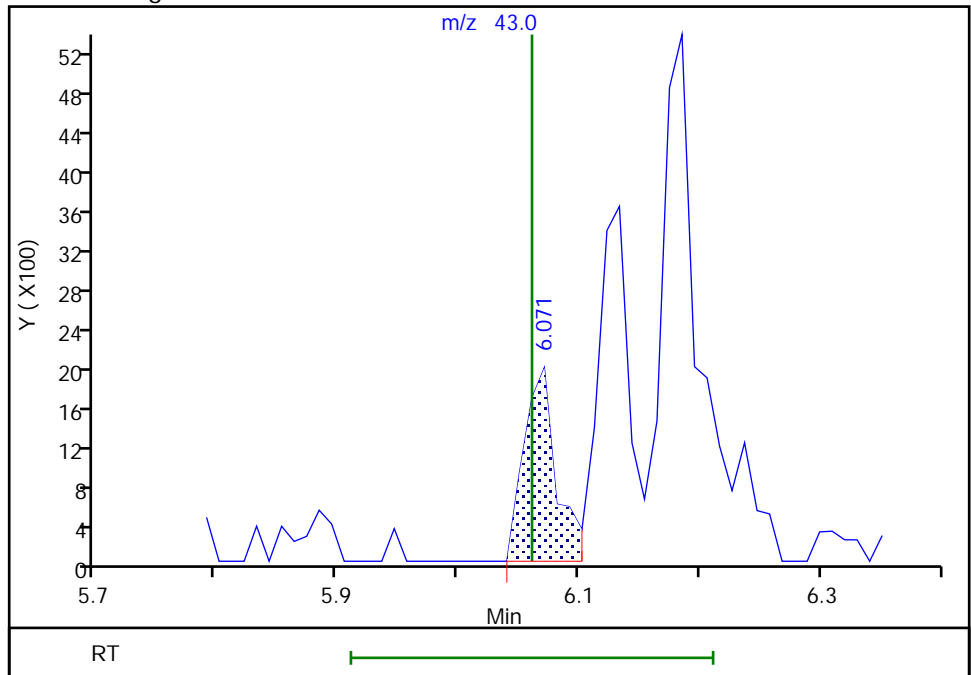
RT: 6.07
Area: 3707
Amount: 0.221950
Amount Units: ug/L

Processing Integration Results



RT: 6.07
Area: 3707
Amount: 0.221950
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

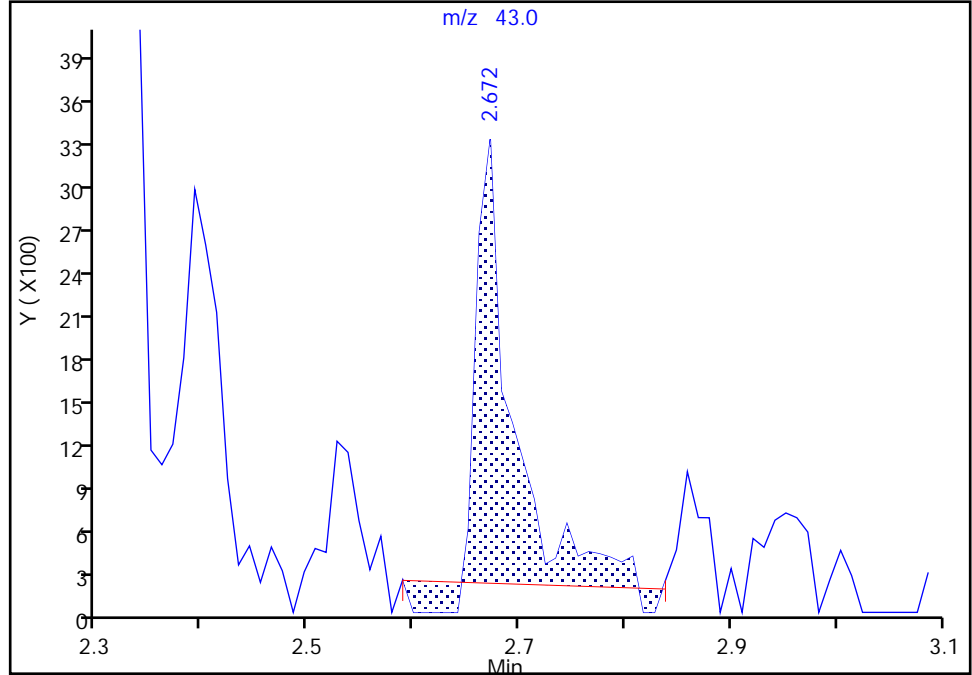
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

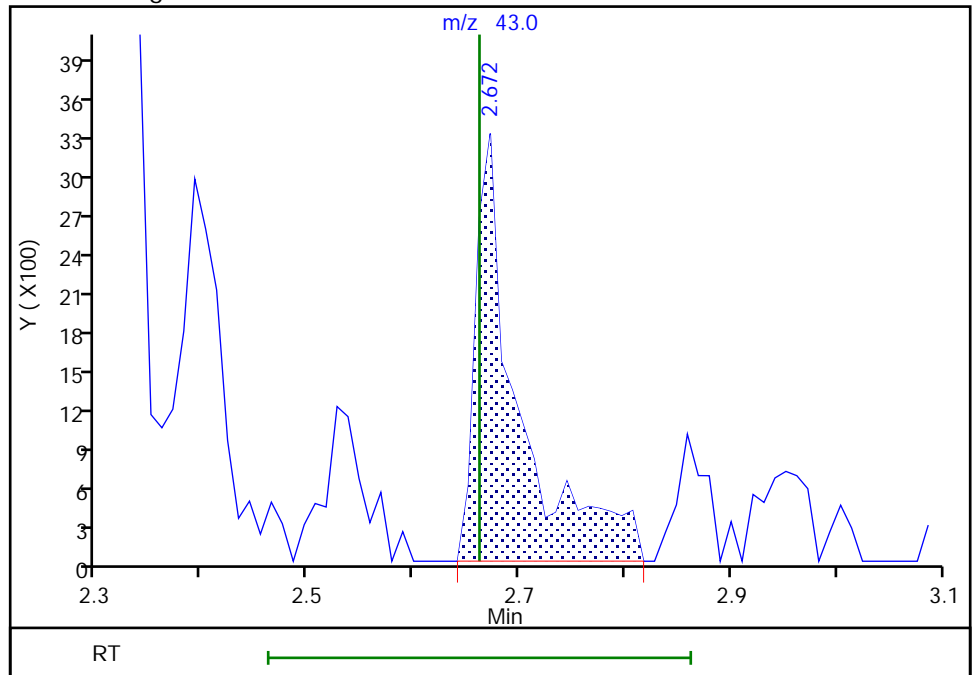
RT: 2.67
Area: 6480
Amount: 1.202742
Amount Units: ug/L

Processing Integration Results



RT: 2.67
Area: 9161
Amount: 1.700358
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:03:53
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-7I

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

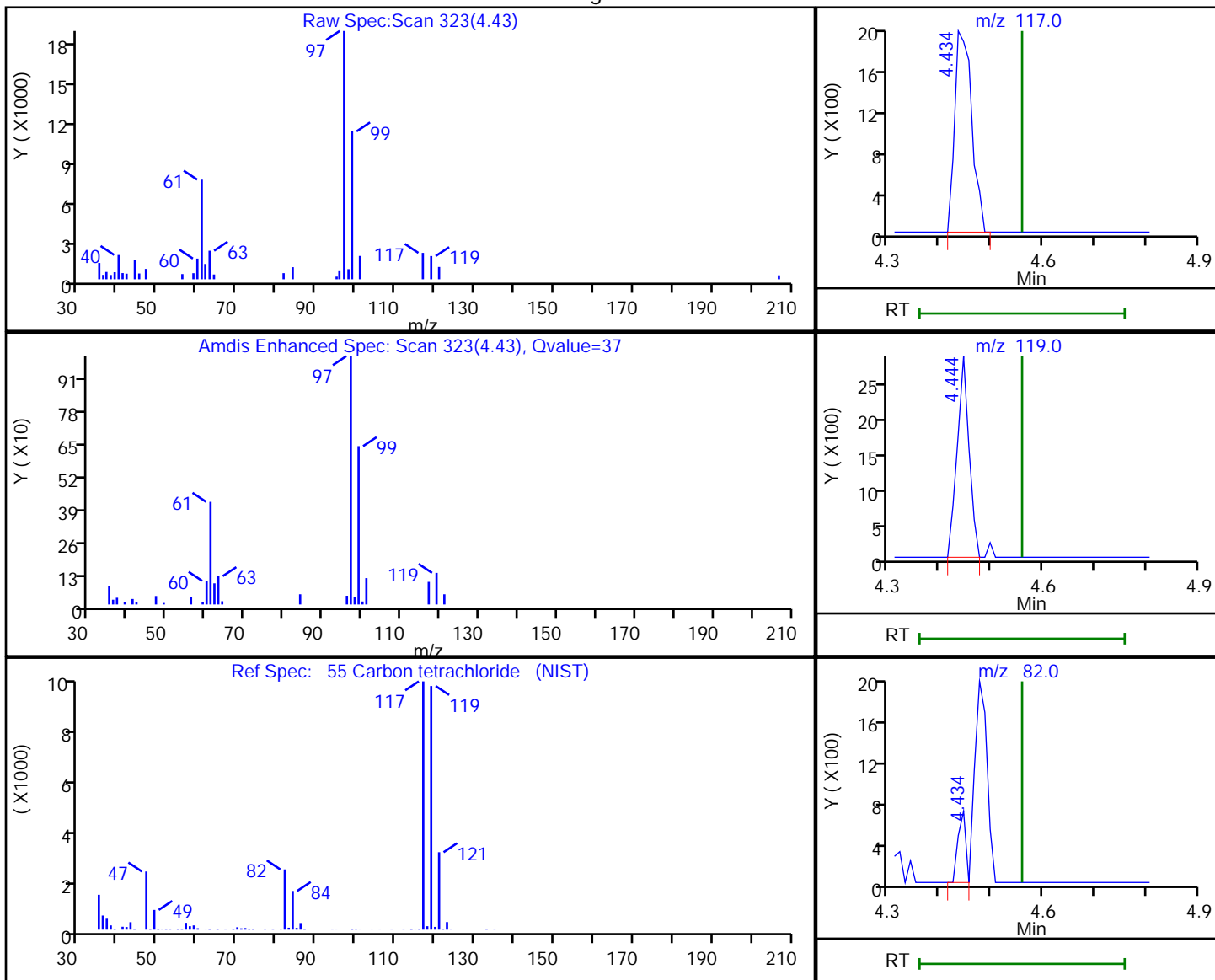
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
4.43	117.00	4562	0.318631
4.44	119.00	4597	
4.43	82.00	722	

Reviewer: izquierdoo, 02-Mar-2019 13:04:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

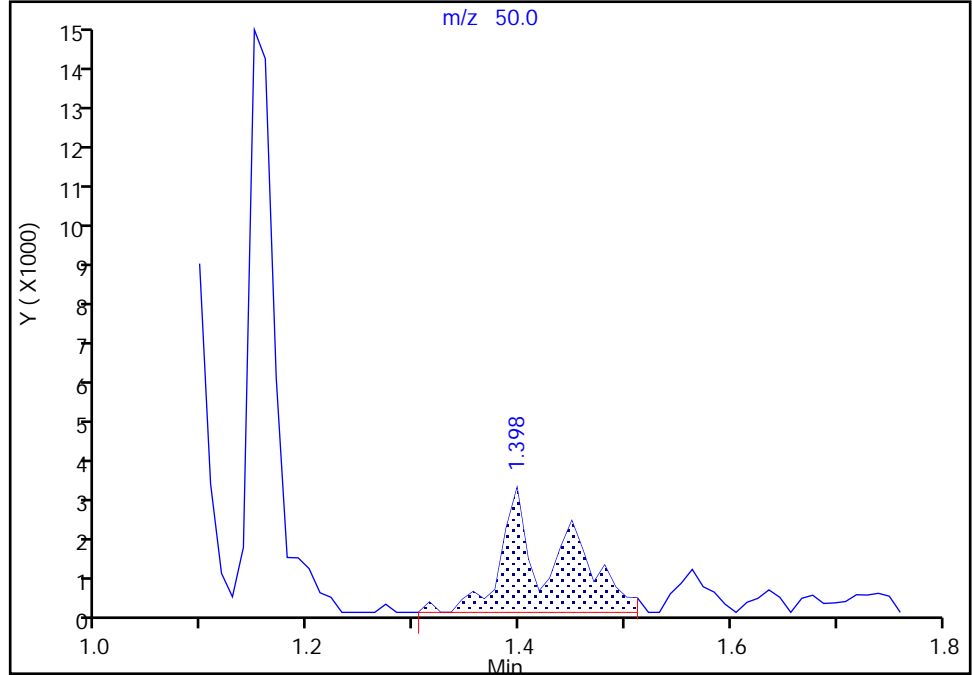
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

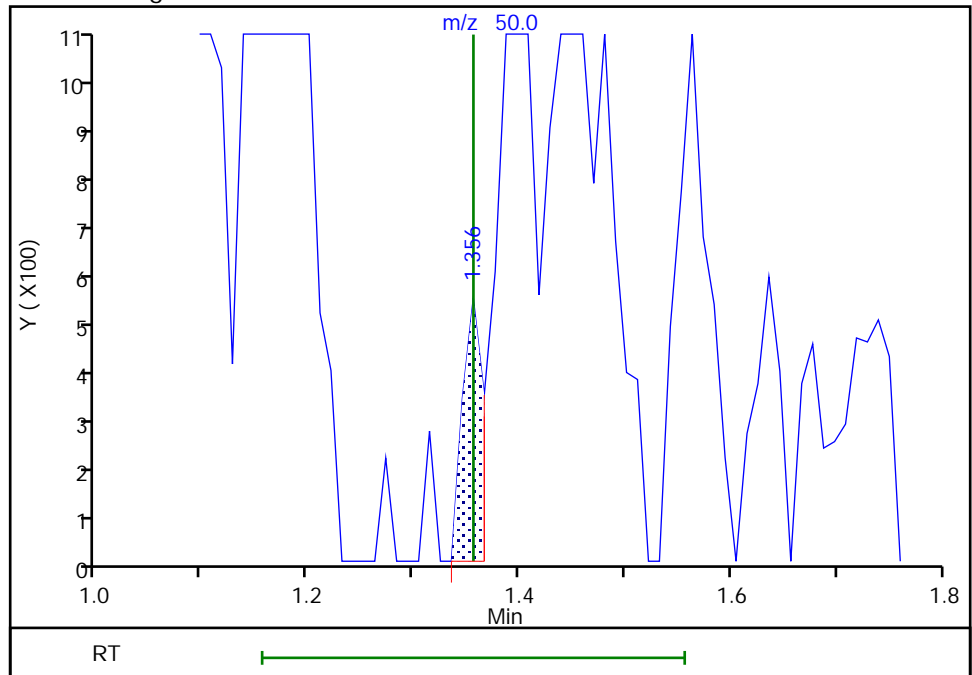
RT: 1.40
Area: 11762
Amount: 0.671831
Amount Units: ug/L

Processing Integration Results



RT: 1.36
Area: 736
Amount: 0.042039
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:03:24
Audit Action: Manually Integrated

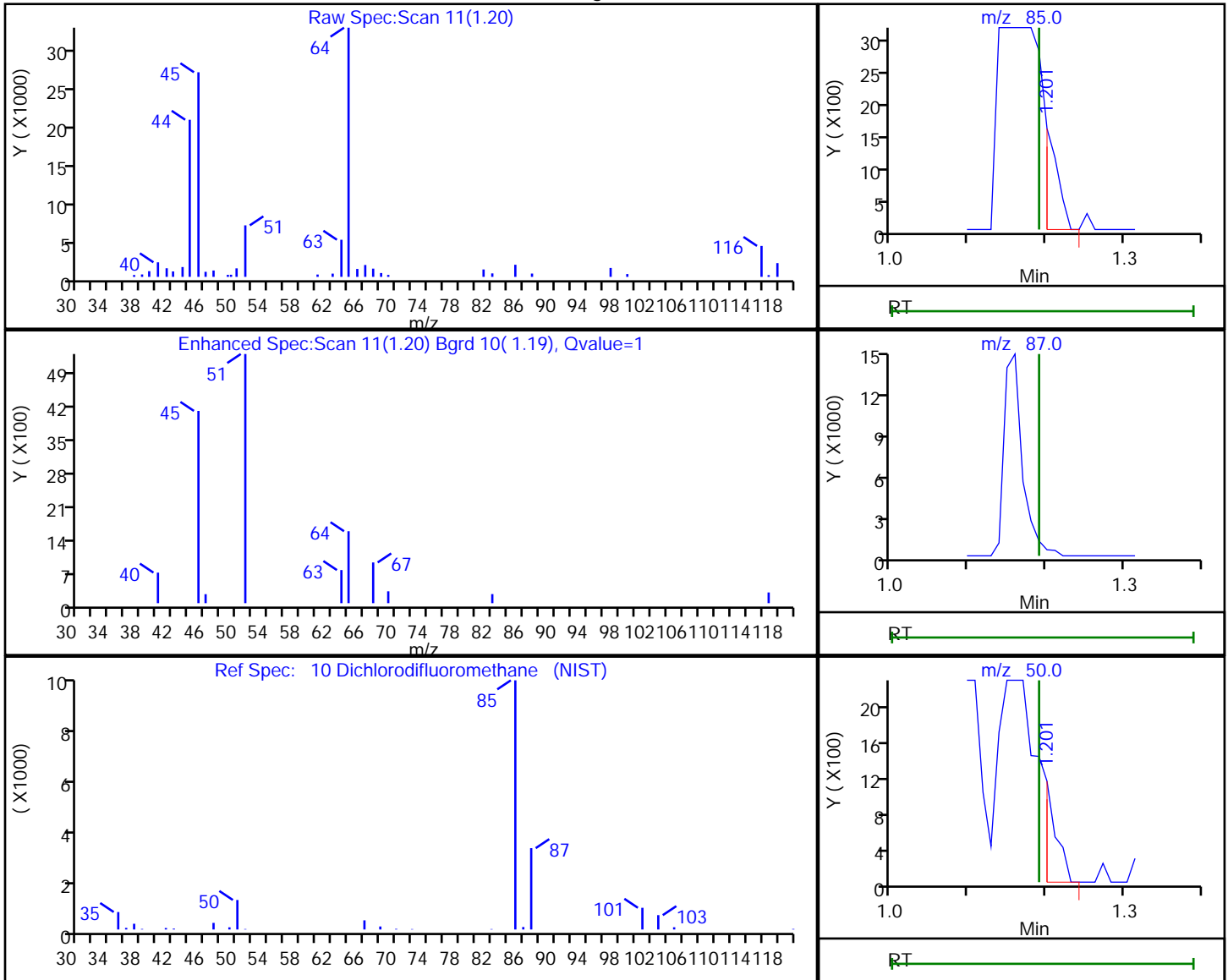
Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
 Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
 Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
 Client ID: ML-71
 Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.20	85.00	1962	0.141801
1.20	50.00	1233	
1.19	87.00	0	

Reviewer: izquierdoo, 05-Mar-2019 09:29:16
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

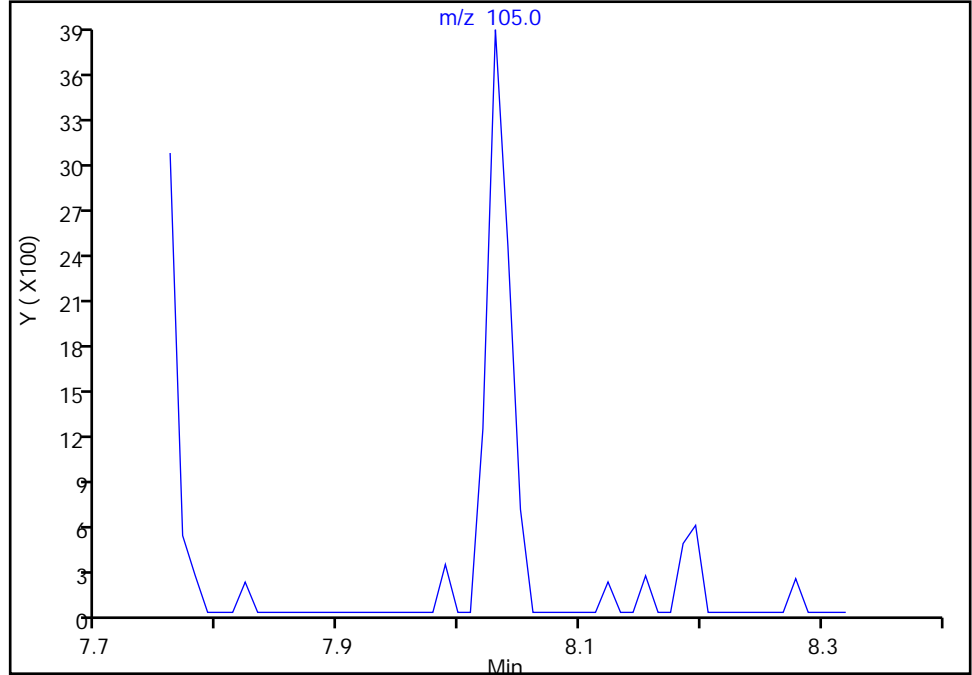
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8

Signal: 1

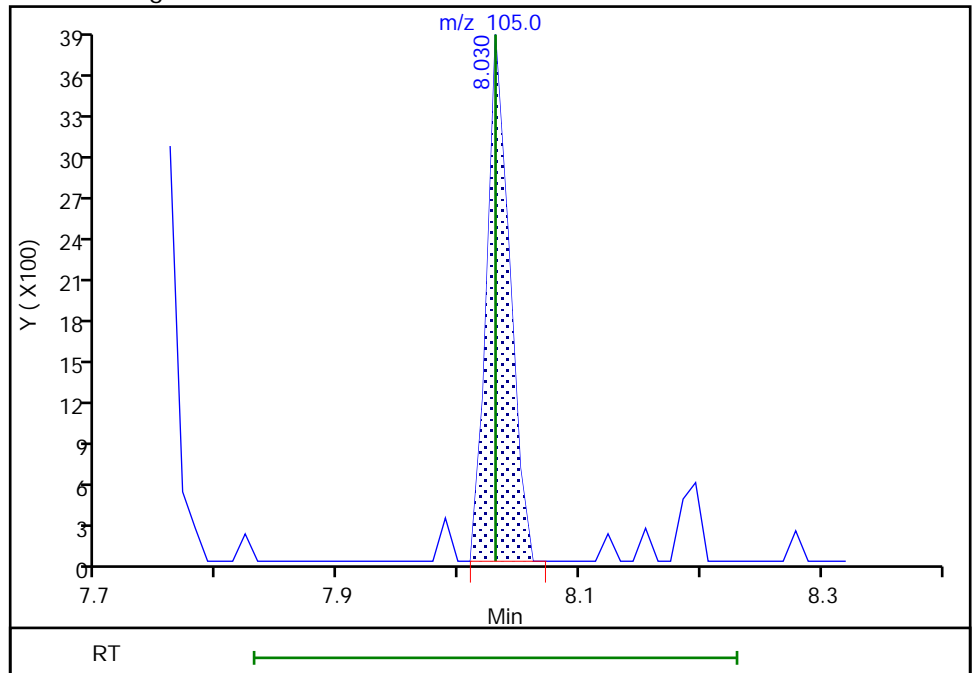
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.03
Area: 5100
Amount: 0.077720
Amount Units: ug/L



TestAmerica Buffalo

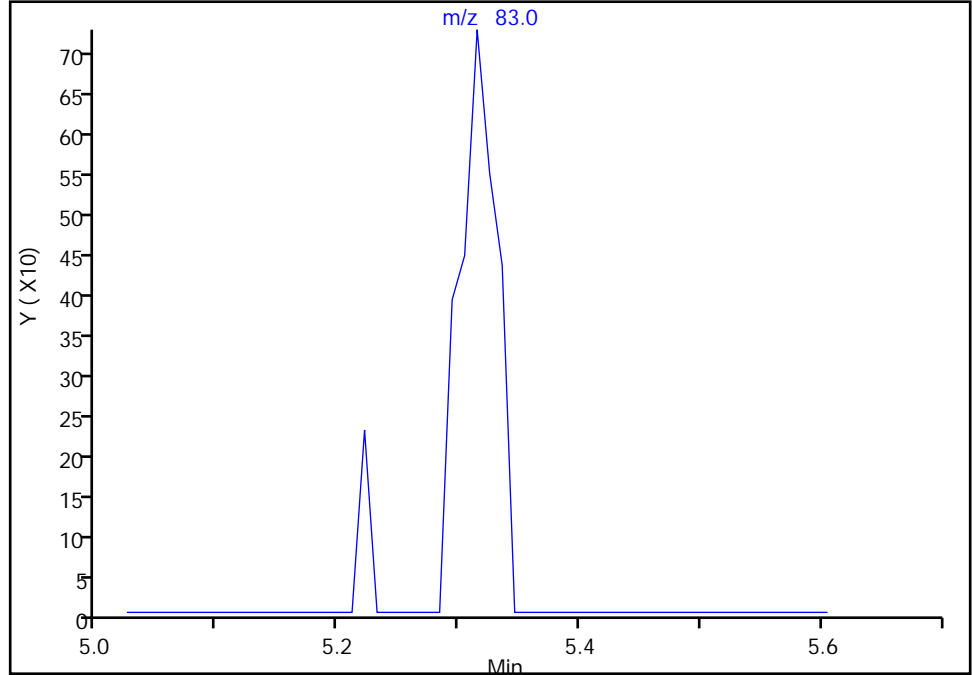
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D
Injection Date: 02-Mar-2019 04:21:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-4 Lab Sample ID: 480-149618-4
Client ID: ML-7I
Operator ID: NC ALS Bottle#: 17 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

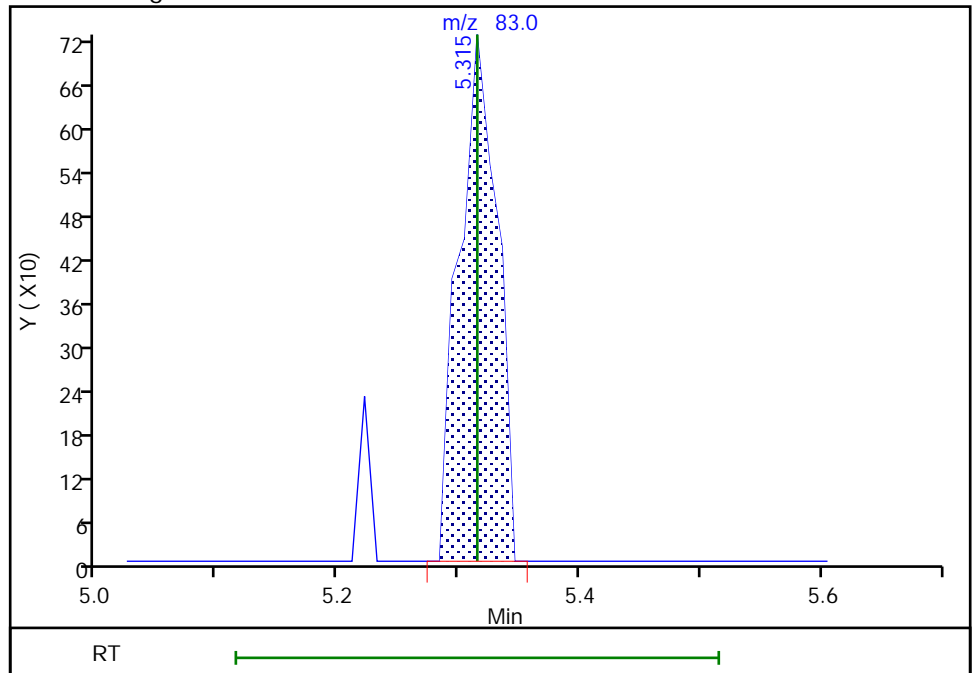
Signal: 1

Not Detected
Expected RT: 5.31

Processing Integration Results



Manual Integration Results



RT: 5.31
Area: 1577
Amount: 0.092392
Amount Units: ug/L

TestAmerica Buffalo

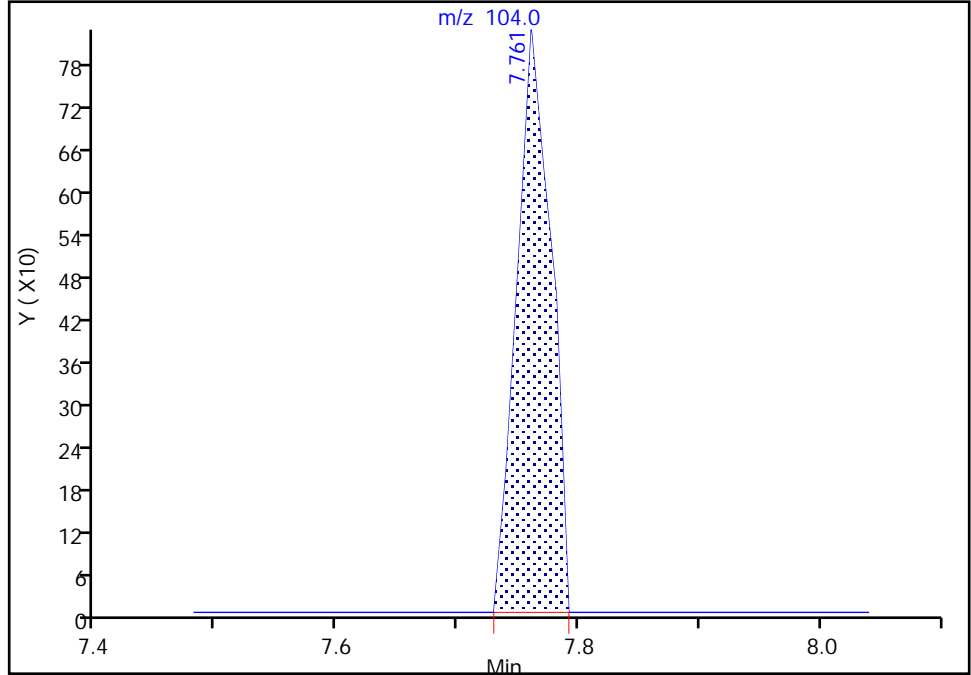
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D	Instrument ID:	HP5973C	Worklist Smp#:	20
Injection Date:	02-Mar-2019 04:21:30	Lab Sample ID:	480-149618-4		
Lims ID:	480-149618-B-4	ALS Bottle#:	17		
Client ID:	ML-7I	Dil. Factor:	5.0000		
Operator ID:	NC	Limit Group:	MV - 8260C ICAL		
Purge Vol:	5.000 mL	Detector:	MS SCAN		
Method:	C-8260				
Column:	ZB-624 (0.25 mm)				

92 Styrene, CAS: 100-42-5

Signal: 1

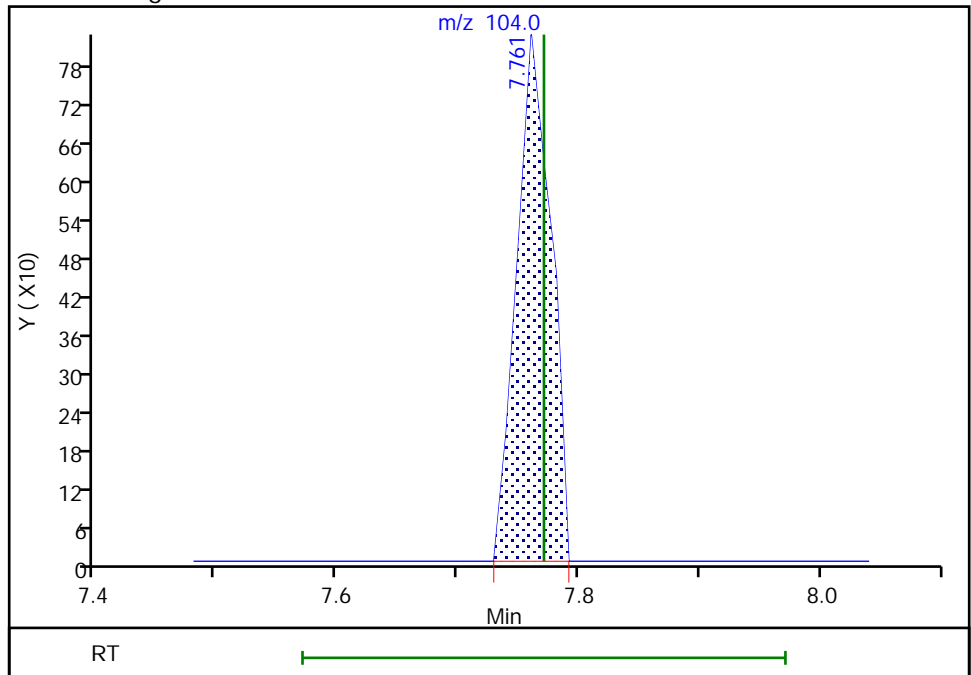
RT: 7.76
Area: 1630
Amount: 0.043370
Amount Units: ug/L

Processing Integration Results



RT: 7.76
Area: 1630
Amount: 0.043370
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5016.D

Injection Date: 02-Mar-2019 04:21:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-4

Lab Sample ID: 480-149618-4

Client ID: ML-7I

Operator ID: NC

ALS Bottle#: 17 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

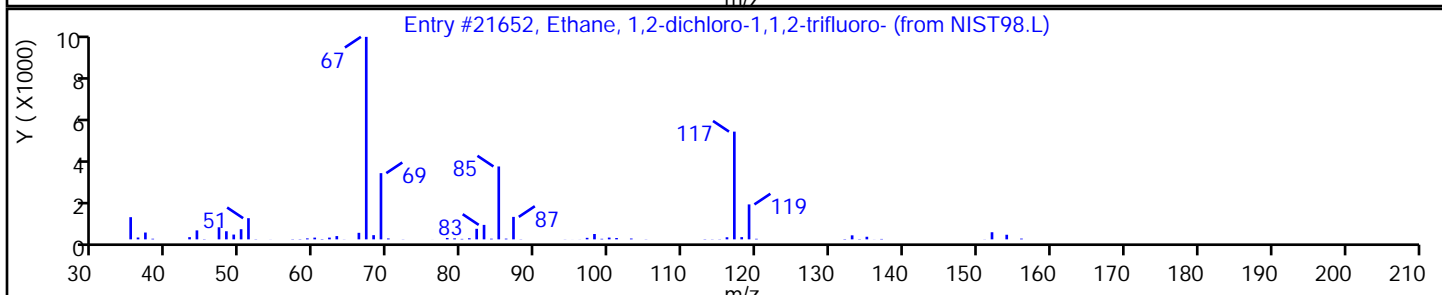
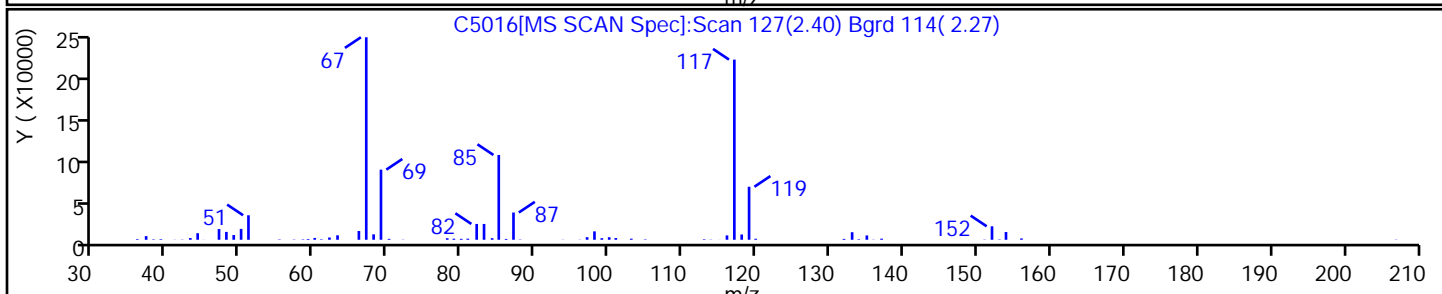
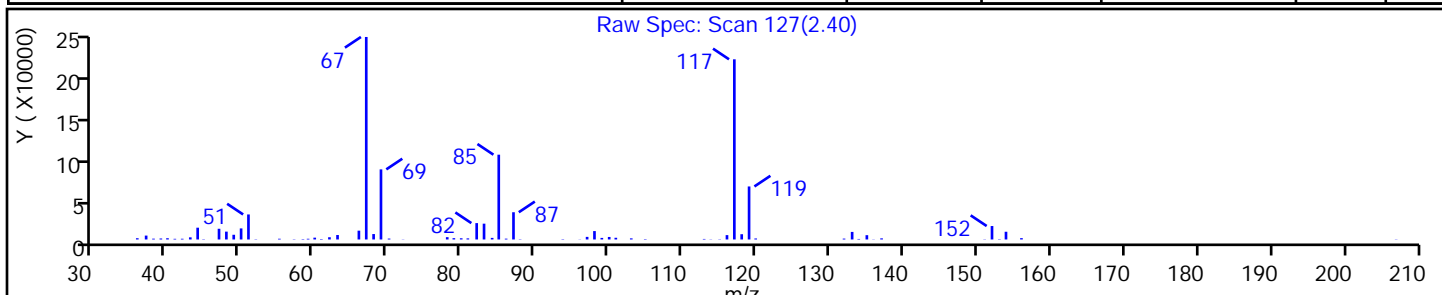
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	94



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-149618-5
 Matrix: Water Lab File ID: C4993.D
 Analysis Method: 8260C Date Collected: 02/26/2019 16:55
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 17:33
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	15		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6
75-34-3	1,1-Dichloroethane	46		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	9.4		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	200		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-149618-5
 Matrix: Water Lab File ID: C4993.D
 Analysis Method: 8260C Date Collected: 02/26/2019 16:55
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 17:33
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	13	6.5
1634-04-4	Methyl tert-butyl ether	1.7	J	5.0	0.80
108-87-2	Methylcyclohexane	1.1	J	5.0	0.80
75-09-2	Methylene Chloride	5.8		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-149618-5
 Matrix: Water Lab File ID: C4993.D
 Analysis Method: 8260C Date Collected: 02/26/2019 16:55
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 17:33
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 13

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.40	13	T J N	90%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D
 Lims ID: 480-149618-A-5
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 01-Mar-2019 17:33:30 ALS Bottle#: 20 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-A-5
 Misc. Info.: 480-0079046-022
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:52:28 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln Date: 01-Mar-2019 17:52:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	211390	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	86	428618	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.128	0.001	95	477629	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.475	0.001	94	311128	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.001	97	188245	25.4	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1118041	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	94	370484	27.4	
10 Dichlorodifluoromethane	85		1.180				ND	
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.449	0.001	69	8771	0.5983	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.822	0.011	99	375083	40.5	
17 Trichlorofluoromethane	101		2.050				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	89	5585	0.5578	
22 1,1-Dichloroethene	96		2.548				ND	Ua
23 Acetone	43	2.672	2.672	0.000	83	8413	1.52	a
26 Carbon disulfide	76		2.734				ND	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.035	0.000	96	16160	1.16	
32 Methyl tert-butyl ether	73	3.222	3.221	0.001	97	13158	0.3464	
34 trans-1,2-Dichloroethene	96	3.232	3.242	0.000	95	4963	0.3745	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	219674	9.19	
45 cis-1,2-Dichloroethene	96	4.092	4.082	0.010	80	8988	0.5679	
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83		4.351				ND	U
51 1,1,1-Trichloroethane	97	4.444	4.434	0.010	98	55355	2.95	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.548				ND	
57 Benzene	78	4.735	4.734	0.001	77	92995	1.88	
58 1,2-Dichloroethane	62		4.786				ND	U
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	89	3934	0.2241	a
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.061				ND	U
74 Toluene	92	6.185	6.175	0.010	28	4064	0.1333	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.589				ND	
80 2-Hexanone	43		6.703				ND	
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.931				ND	
87 Chlorobenzene	112		7.284				ND	
88 Ethylbenzene	91	7.336	7.346	0.000	95	8118	0.1400	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	95	7017	0.3007	a
91 o-Xylene	106	7.750	7.750	0.000	96	6723	0.2724	
92 Styrene	104		7.771				ND	U
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	7947	0.1216	a
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	U
113 1,4-Dichlorobenzene	146		9.149				ND	U
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		0.5731	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D
 Lims ID: 480-149618-A-5
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 01-Mar-2019 17:33:30 ALS Bottle#: 20 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-A-5
 Misc. Info.: 480-0079046-022
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:52:28 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326
 First Level Reviewer: carrolln Date: 01-Mar-2019 17:52:28

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.403	233853	2.55	153	90	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.952	2290722	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Worklist Smp#: 22

Client ID: ML-7D

Purge Vol: 5.000 mL

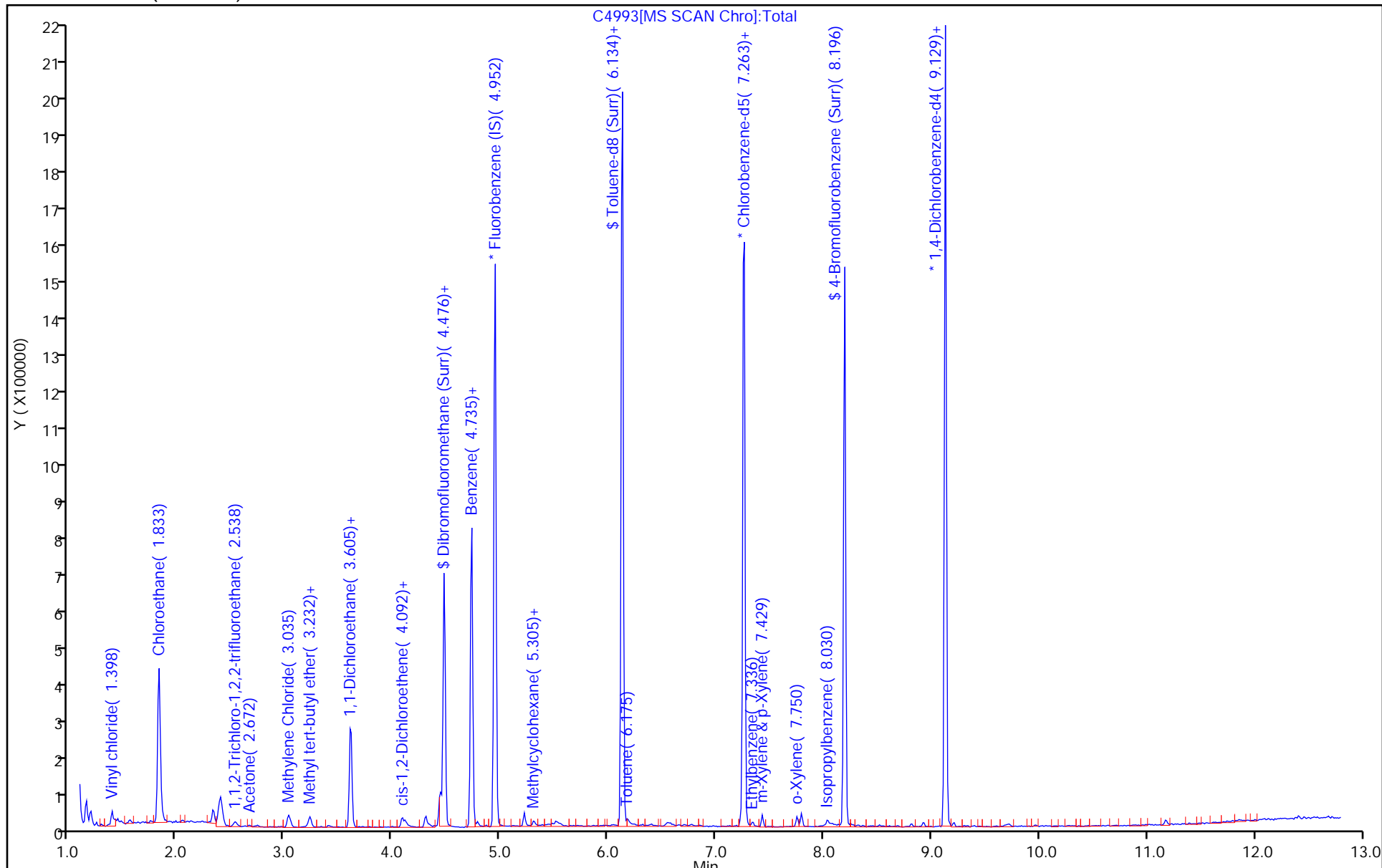
Dil. Factor: 5.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

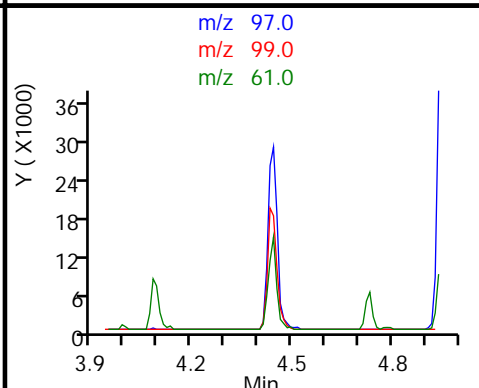
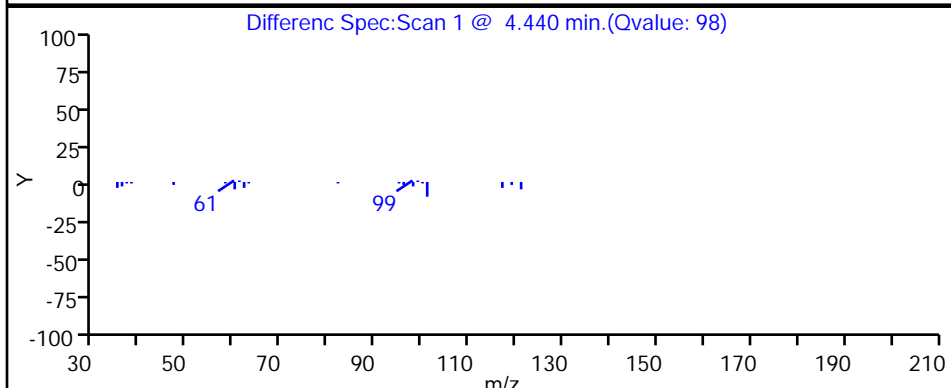
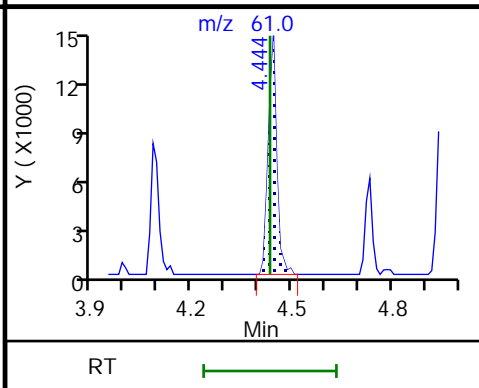
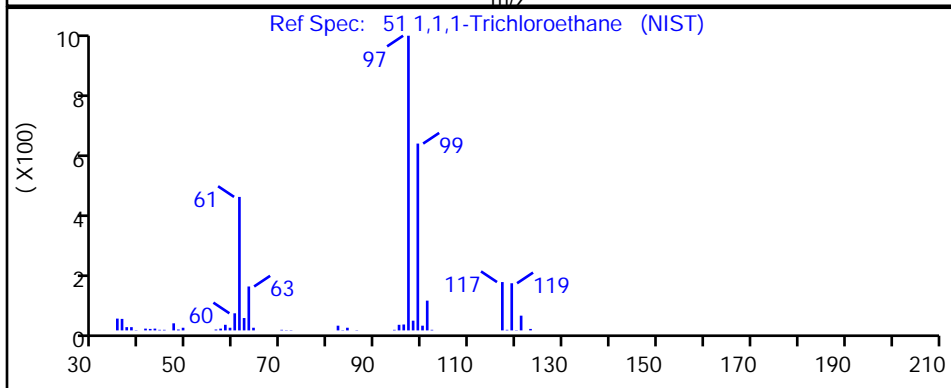
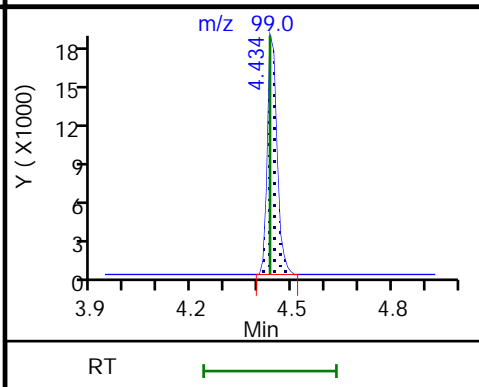
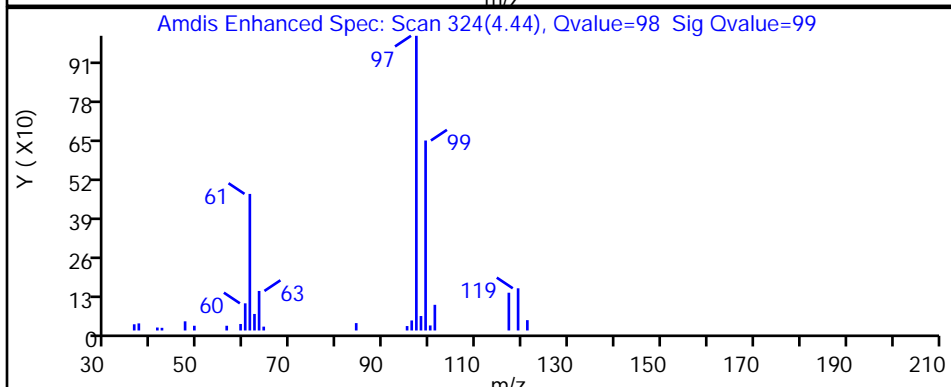
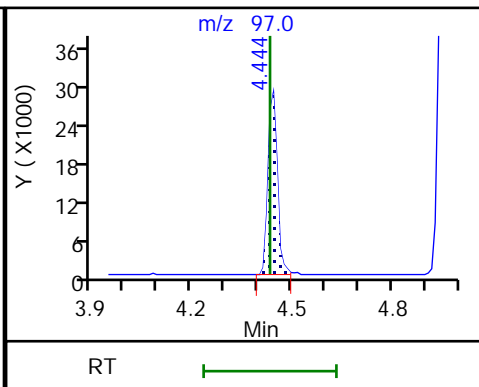
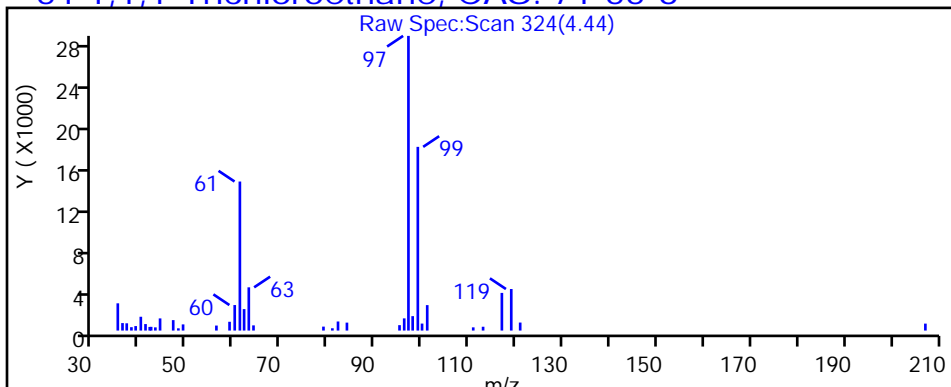
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

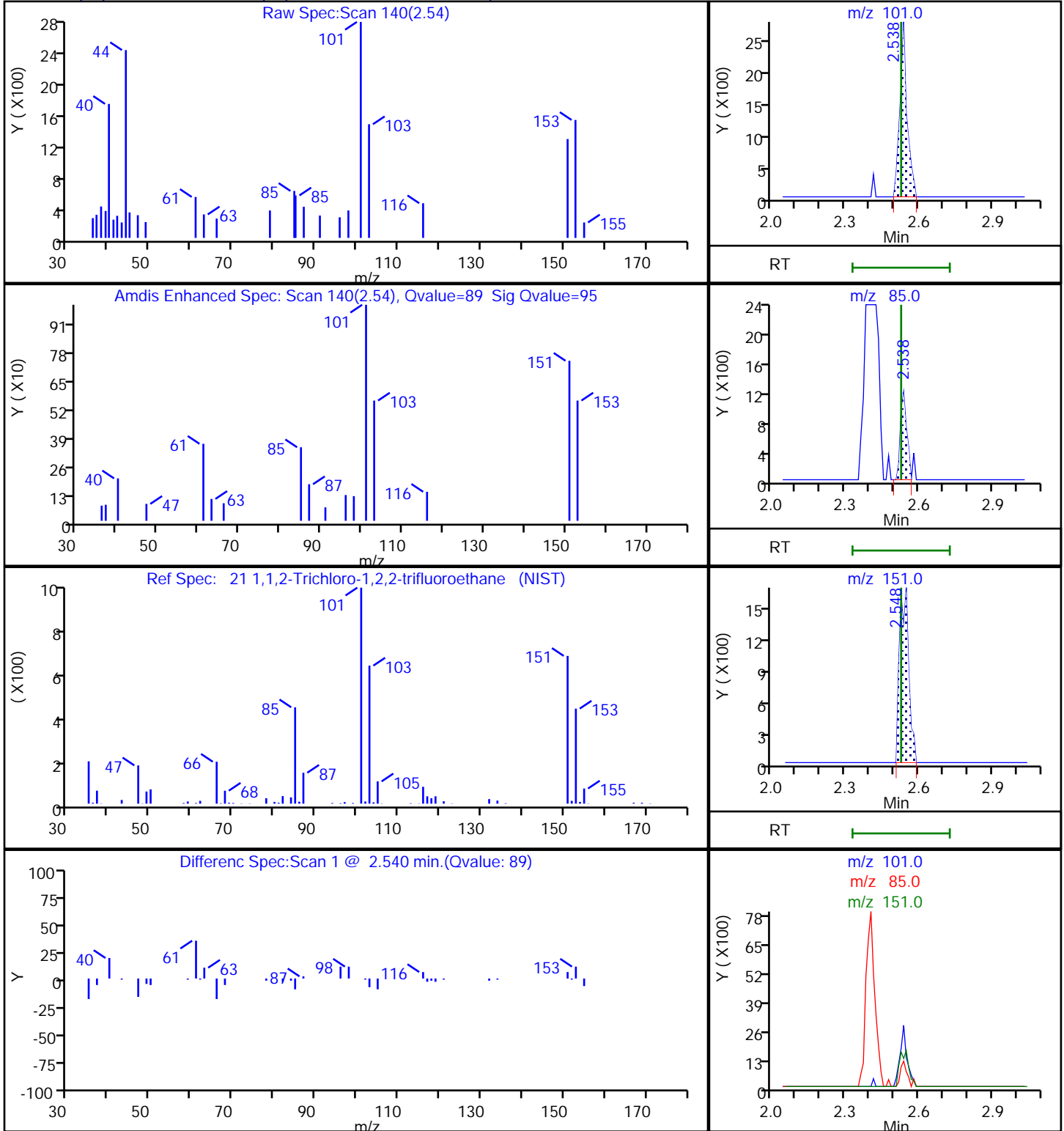
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

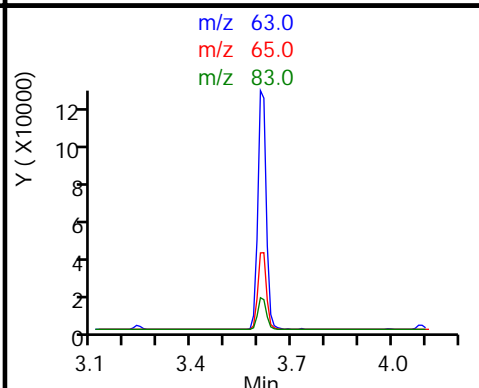
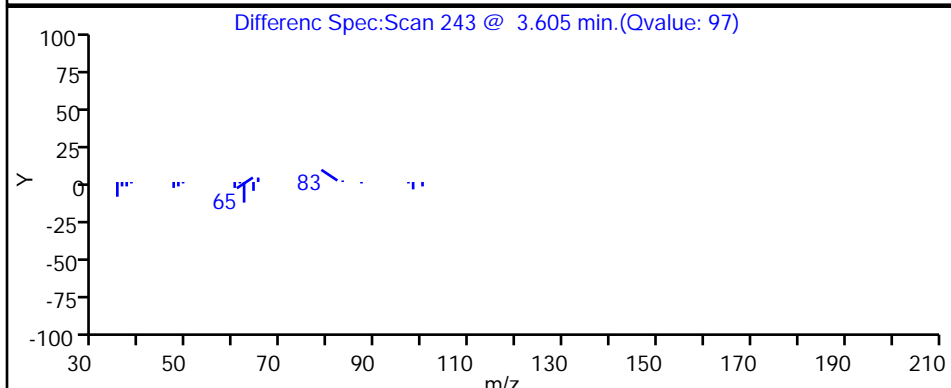
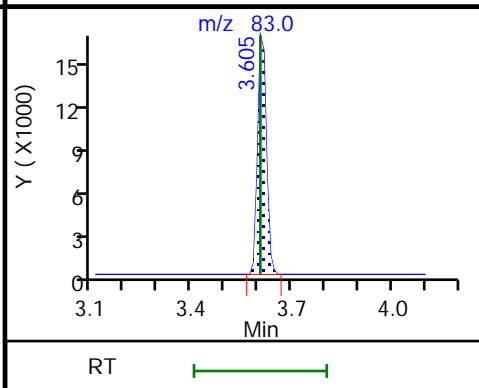
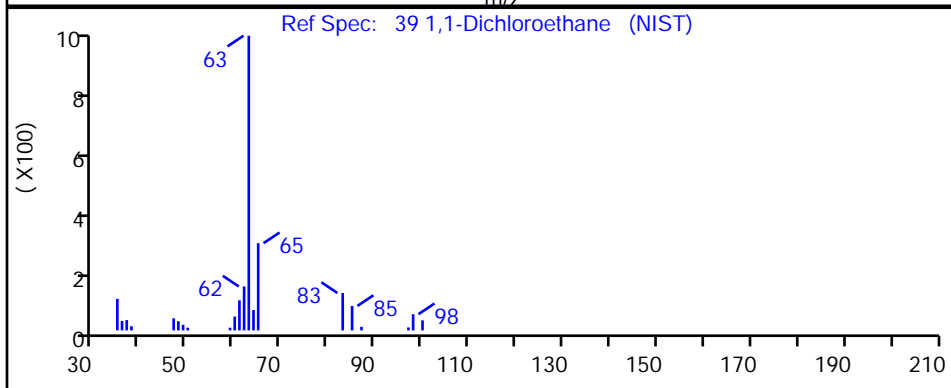
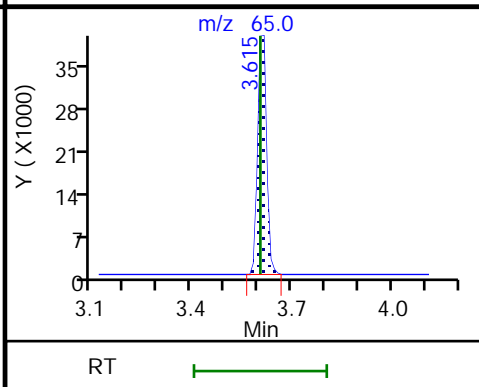
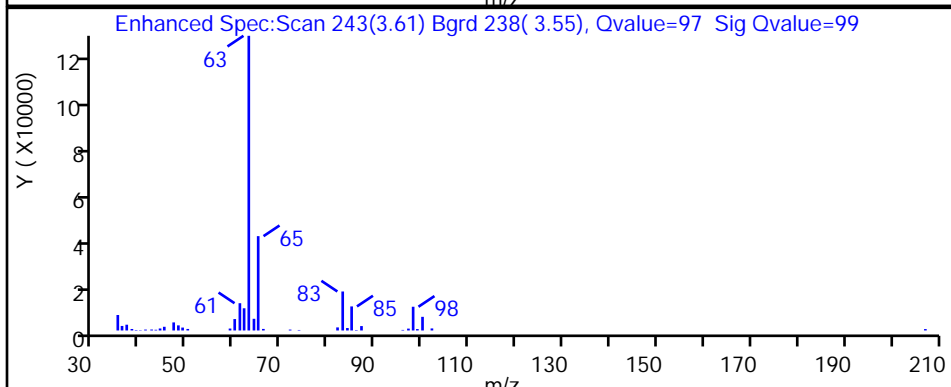
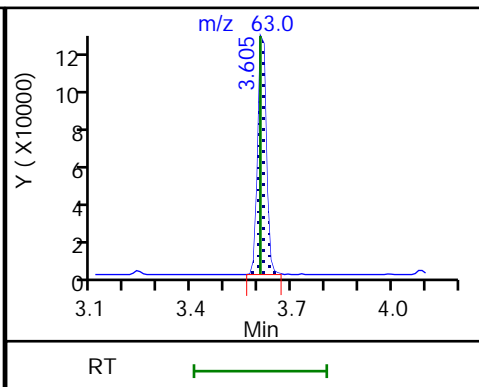
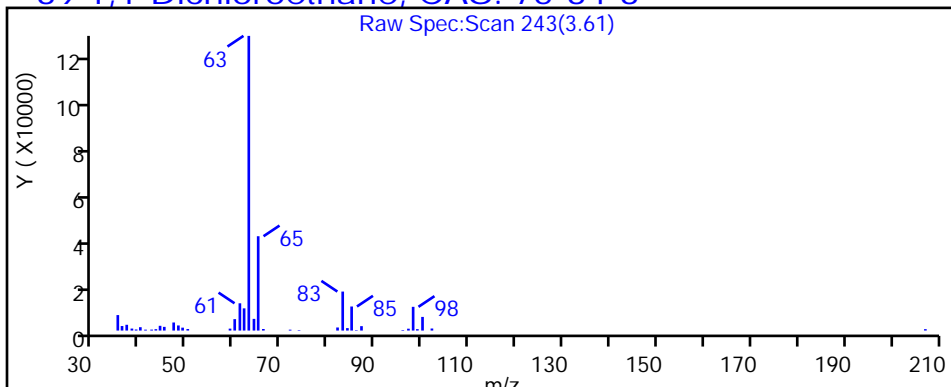
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

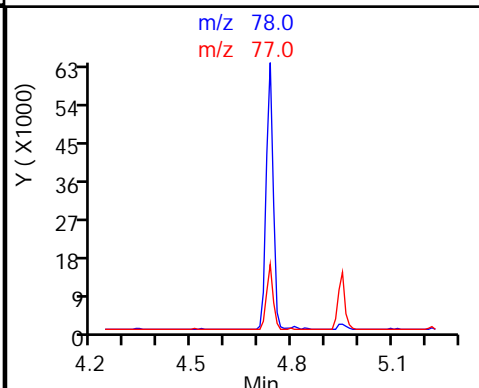
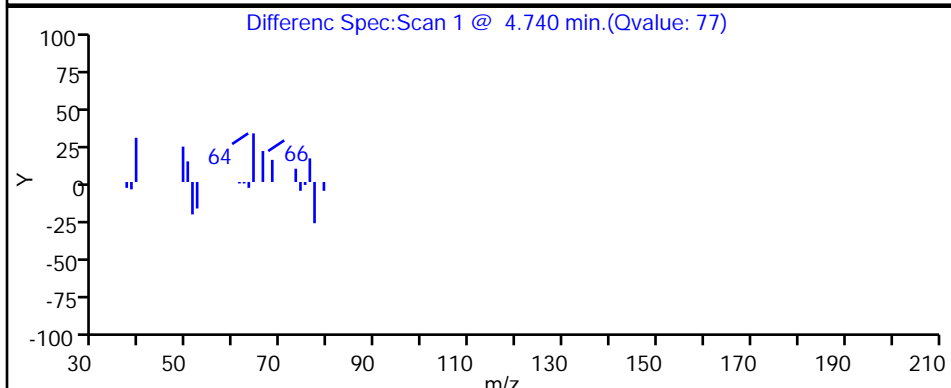
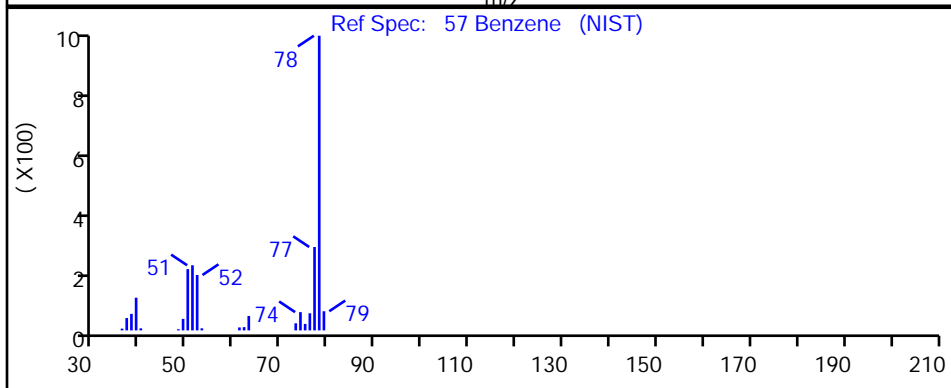
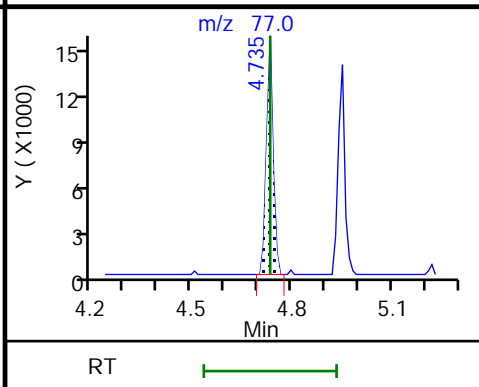
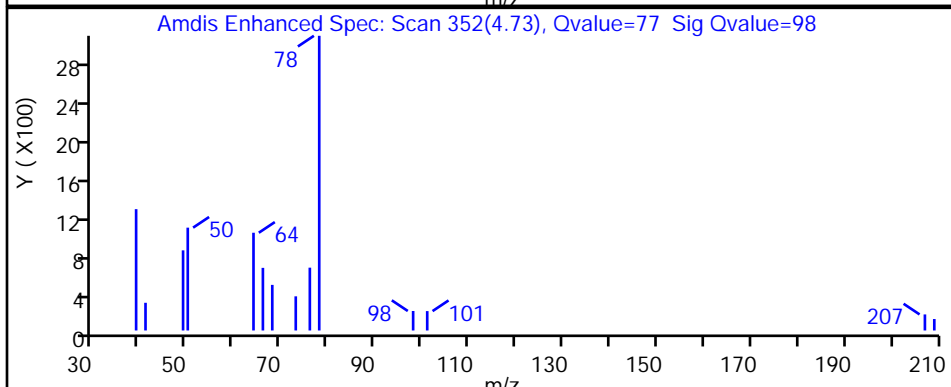
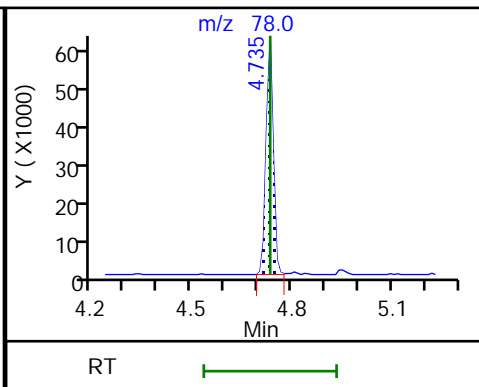
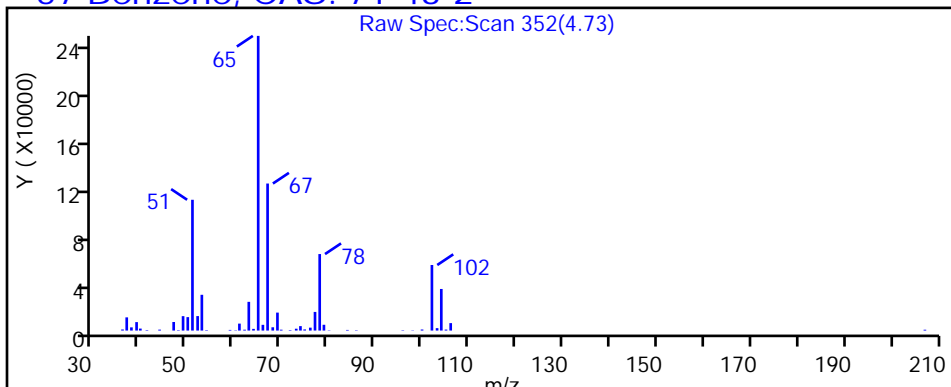
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

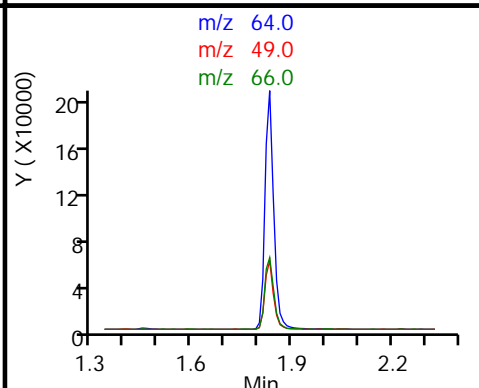
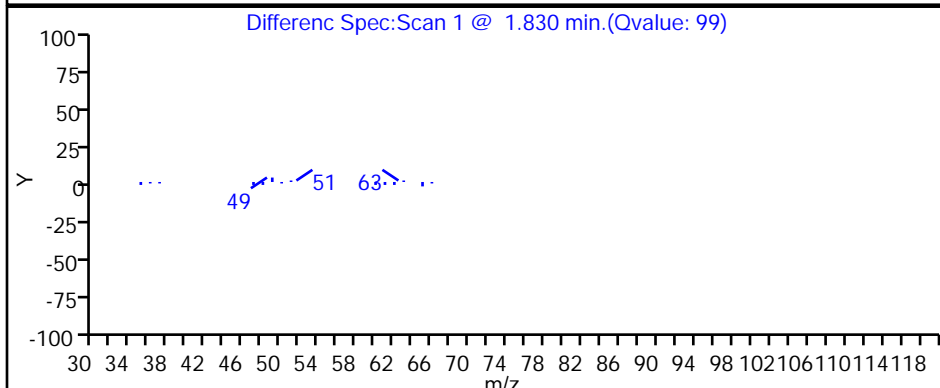
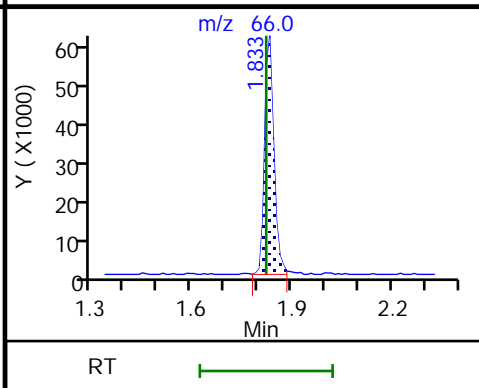
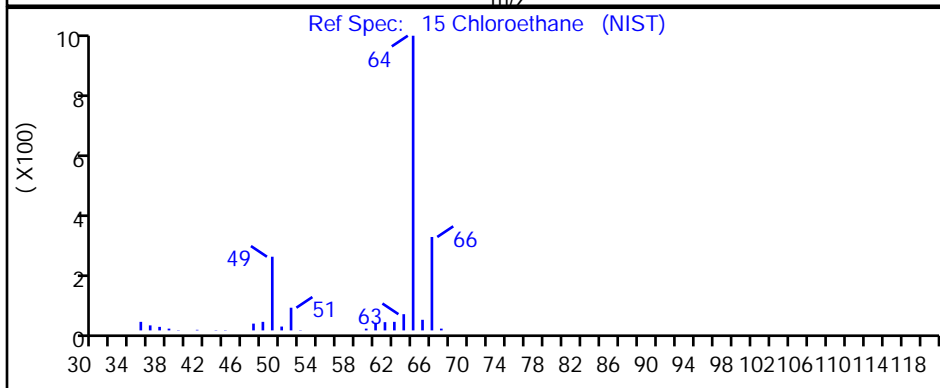
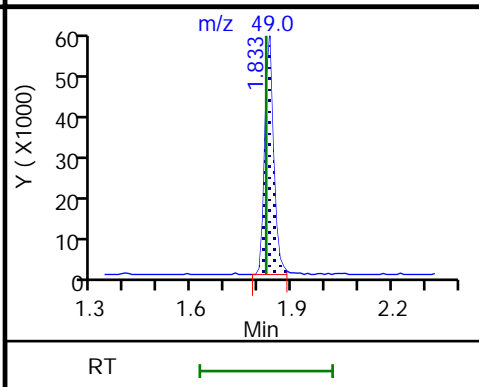
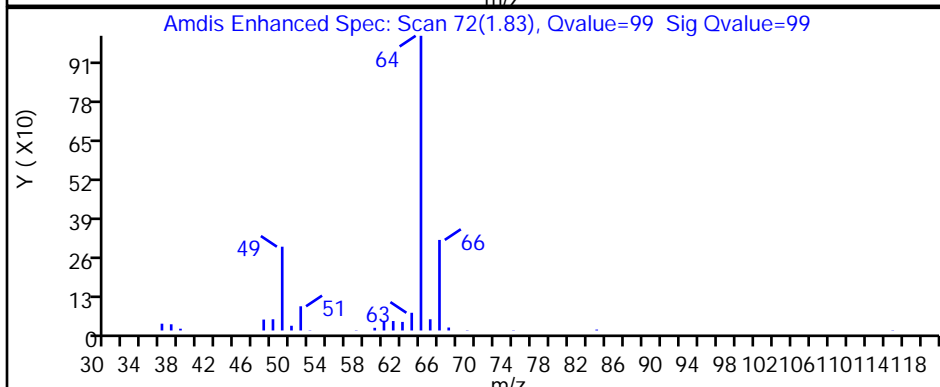
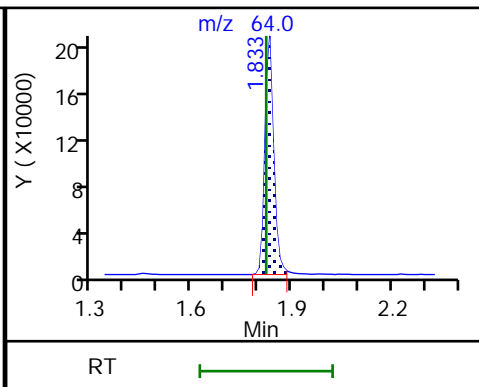
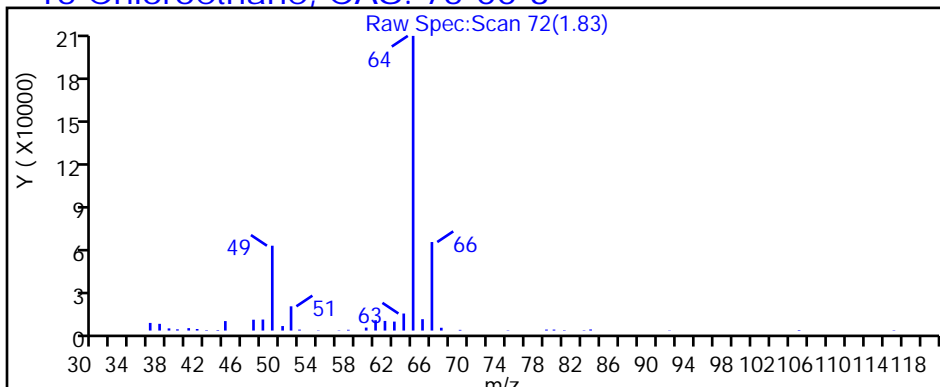
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

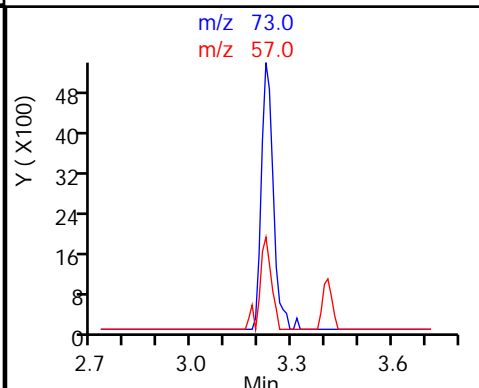
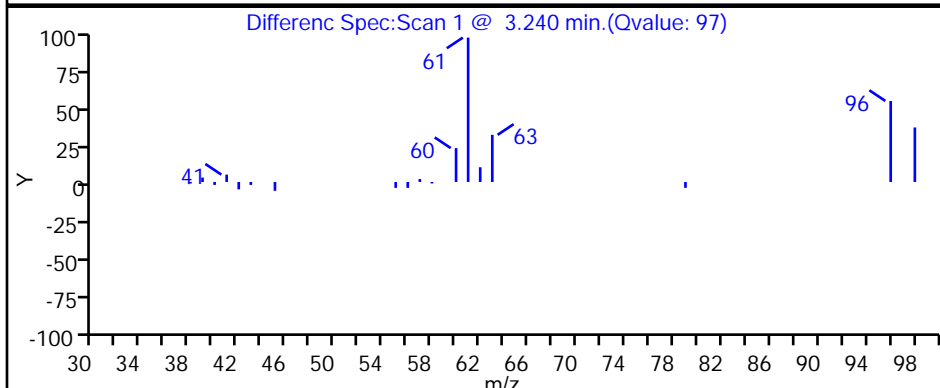
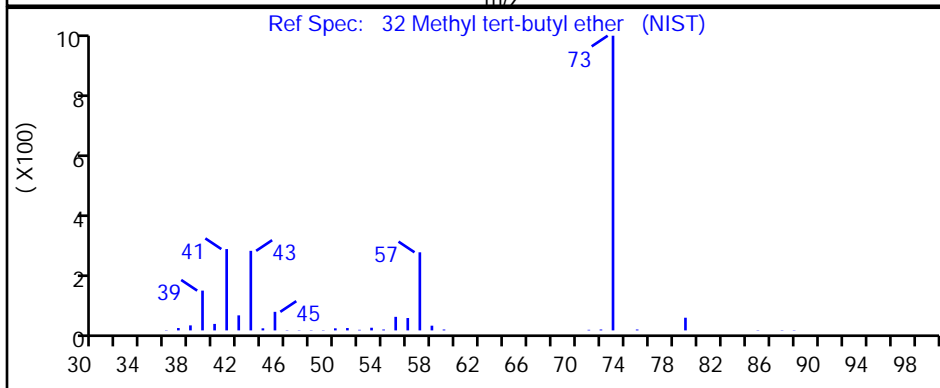
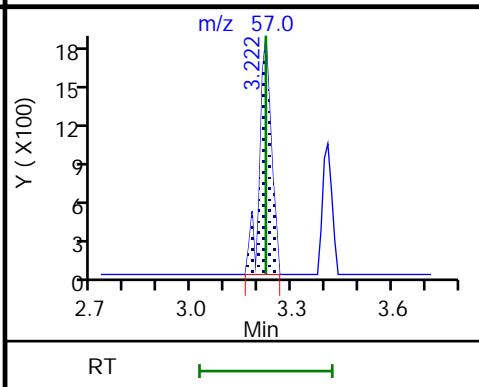
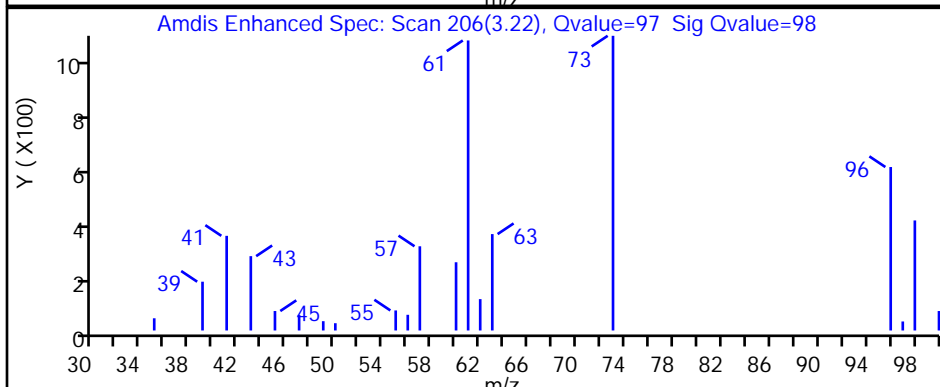
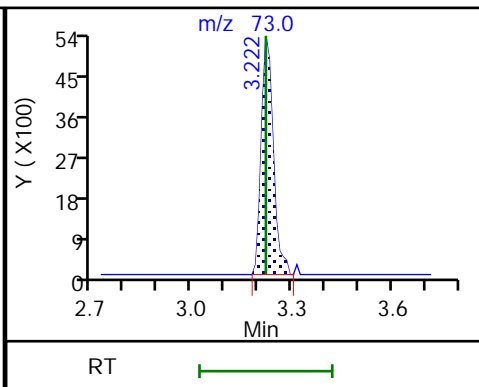
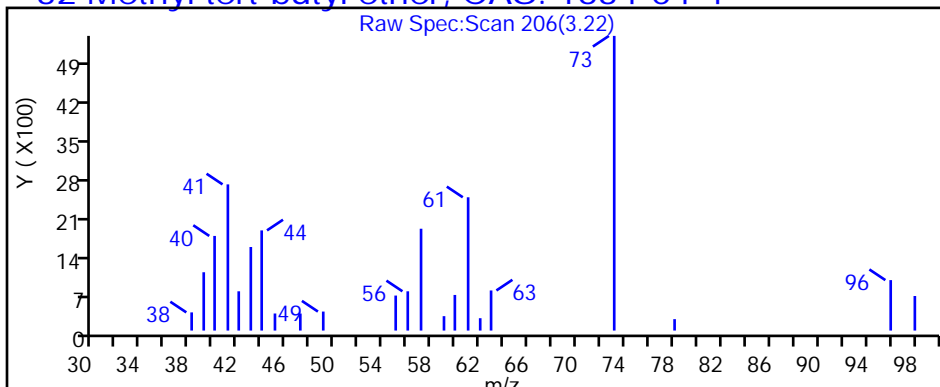
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

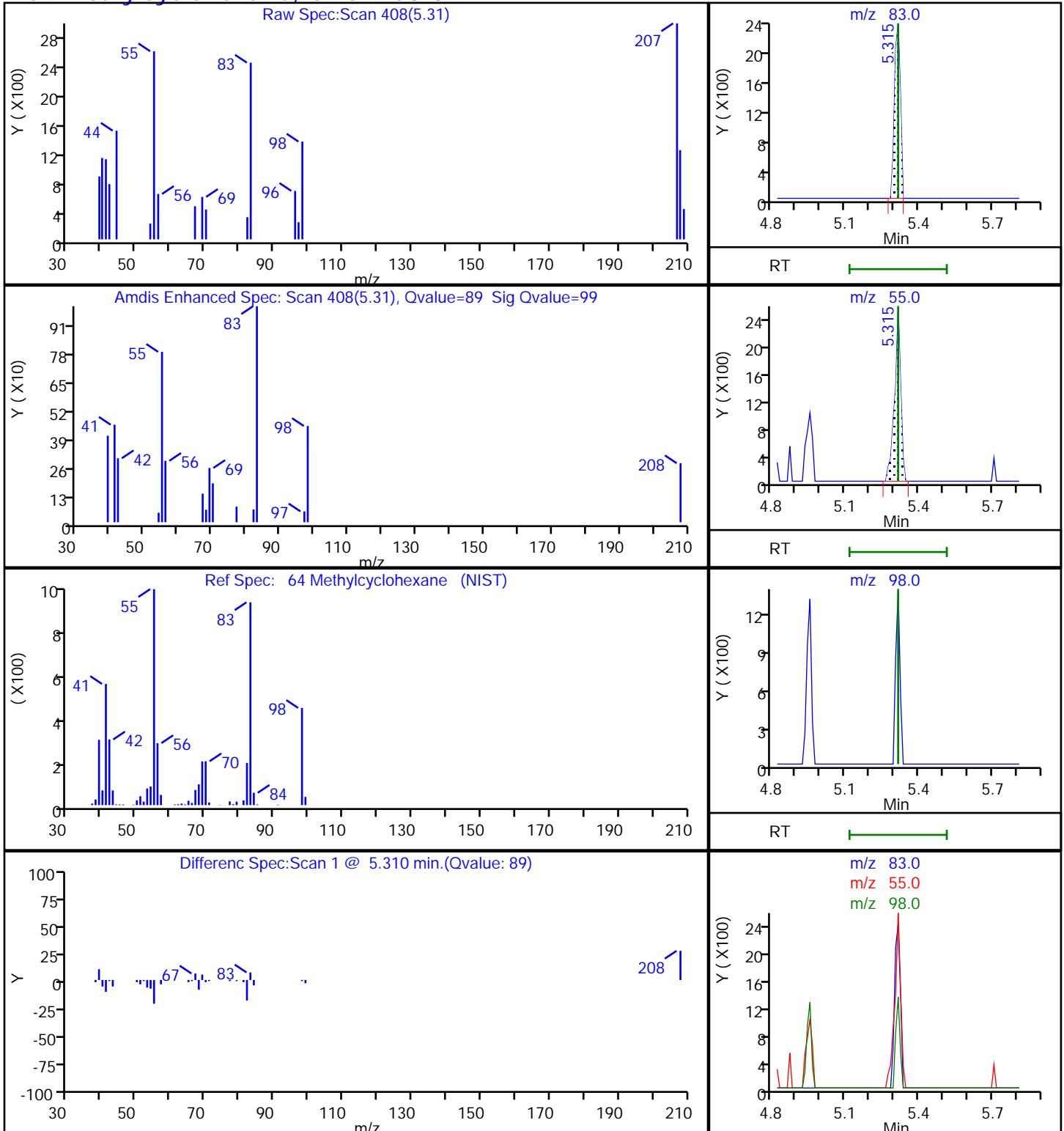
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

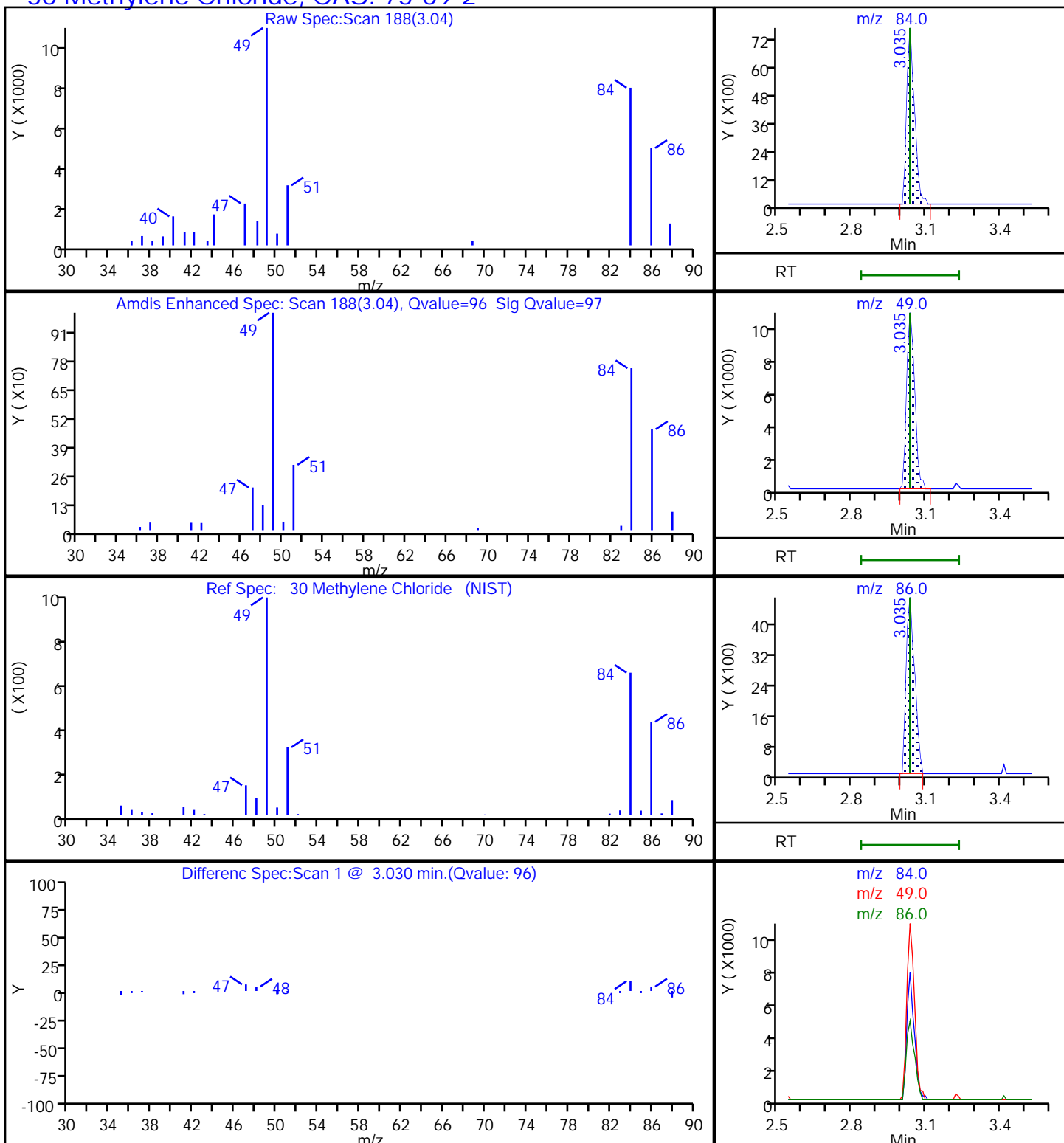
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

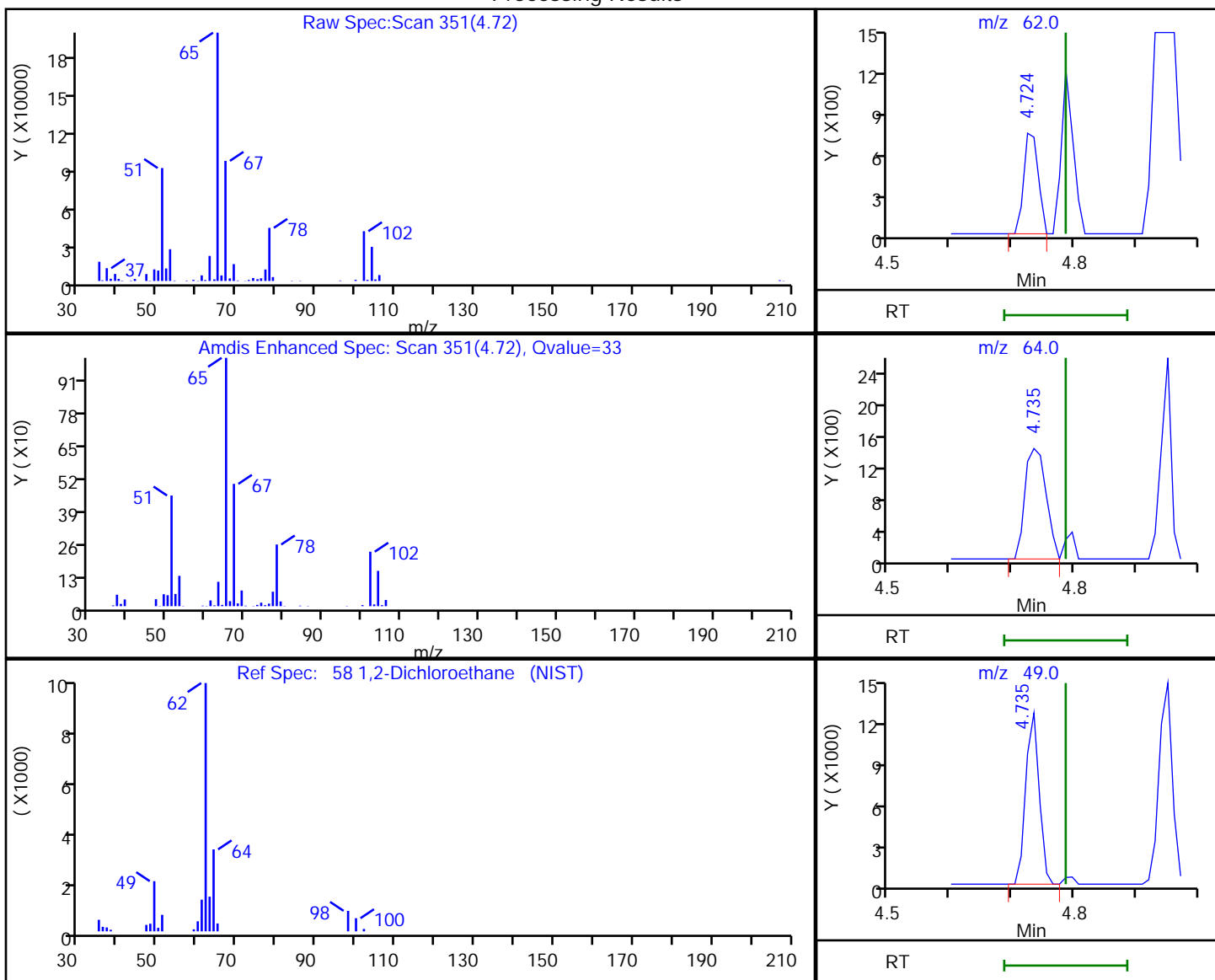
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.72	62.00	1231	0.059177
4.73	64.00	3311	
4.73	49.00	18188	

Reviewer: carrolln, 01-Mar-2019 17:51:24

Audit Action: Marked Compound Undetected

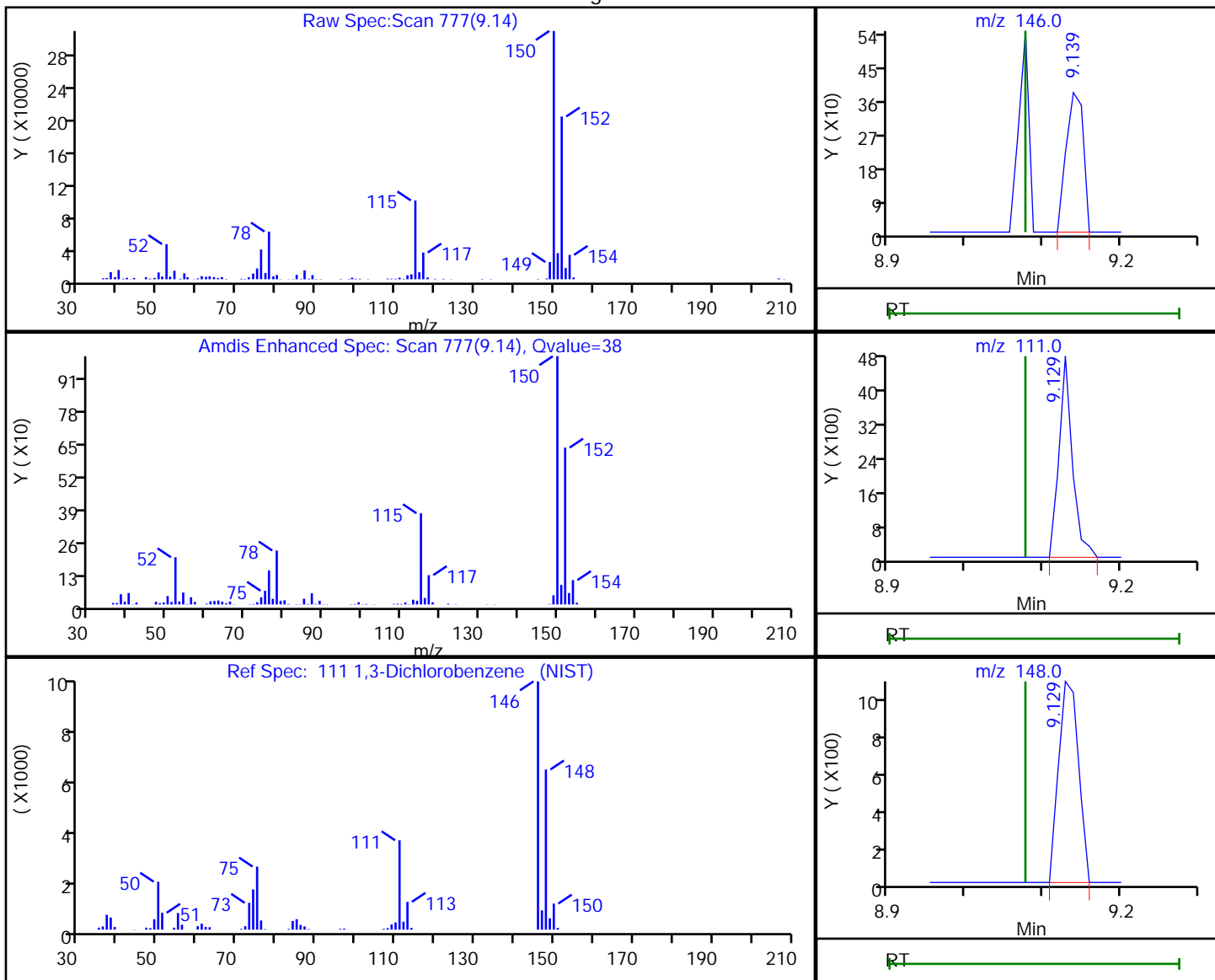
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D
 Injection Date: 01-Mar-2019 17:33:30 Instrument ID: HP5973C
 Lims ID: 480-149618-A-5 Lab Sample ID: 480-149618-5
 Client ID: ML-7D
 Operator ID: kn ALS Bottle#: 20 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.14	146.00	583	0.017177
9.13	111.00	5789	
9.13	148.00	1865	

Reviewer: carrolln, 01-Mar-2019 17:52:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

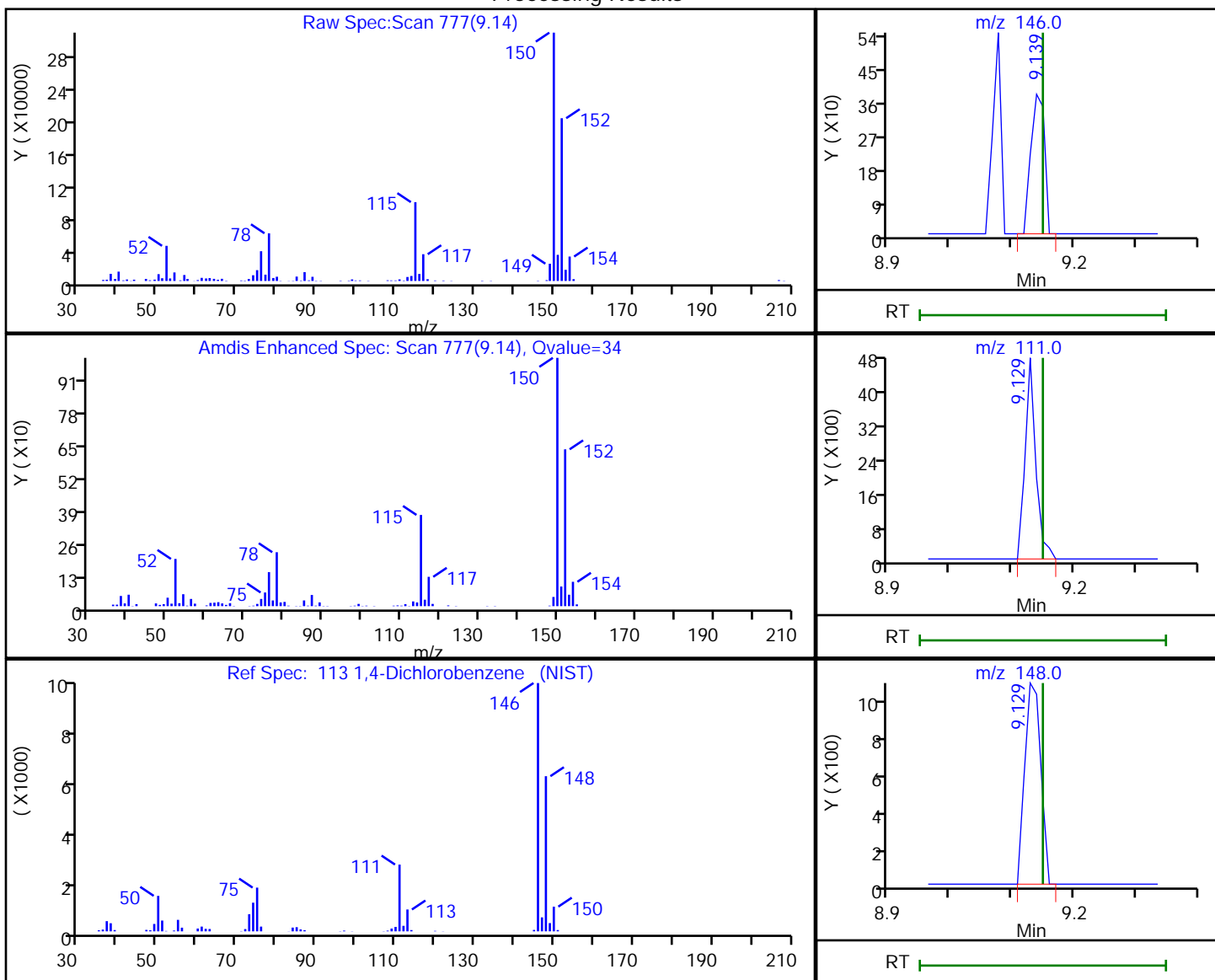
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.14	146.00	583	0.016961
9.13	111.00	5789	
9.13	148.00	1865	

Reviewer: carrolln, 01-Mar-2019 17:52:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

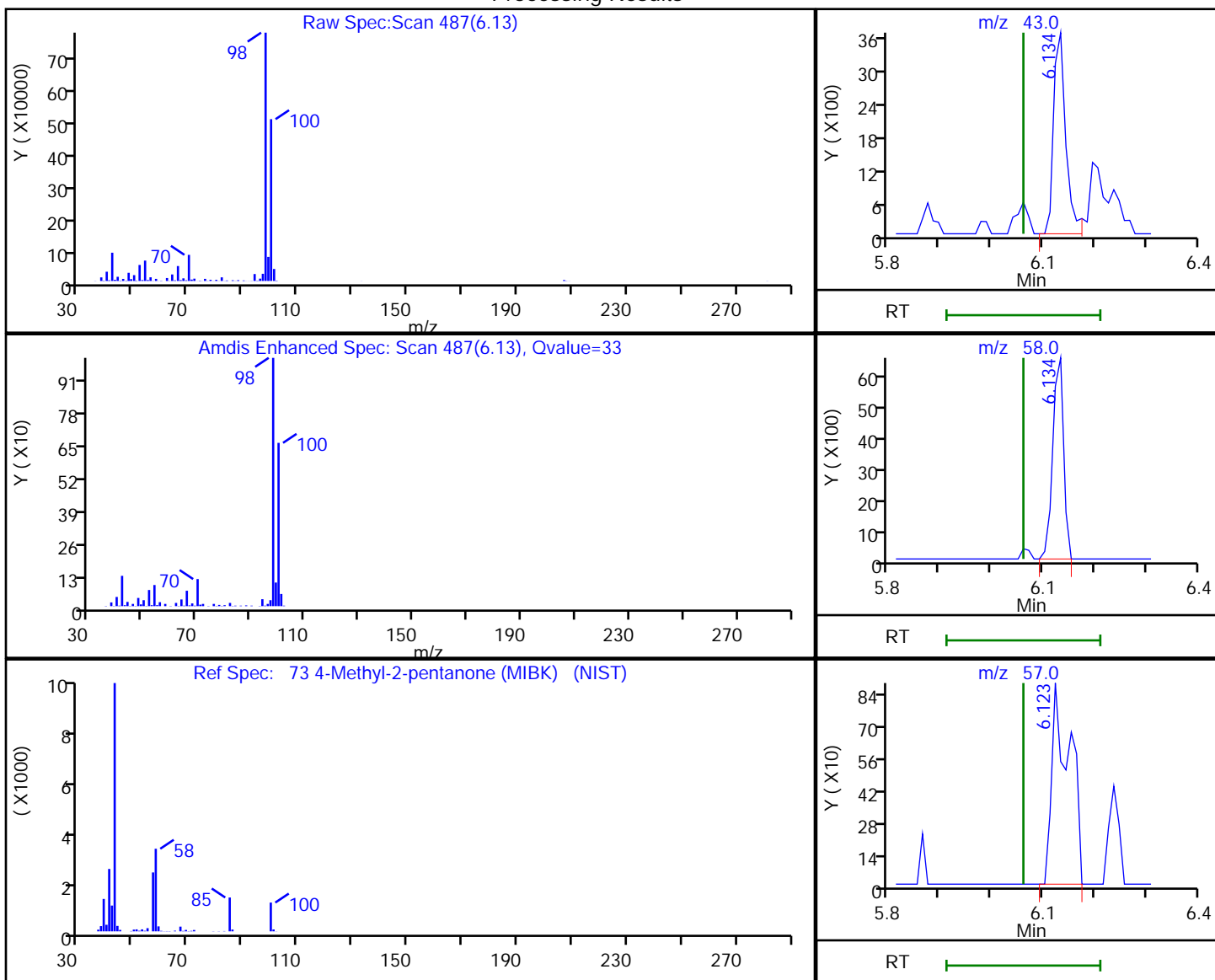
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.13	43.00	6073	0.376506
6.13	58.00	9688	
6.12	57.00	2162	

Reviewer: carrolln, 01-Mar-2019 17:51:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

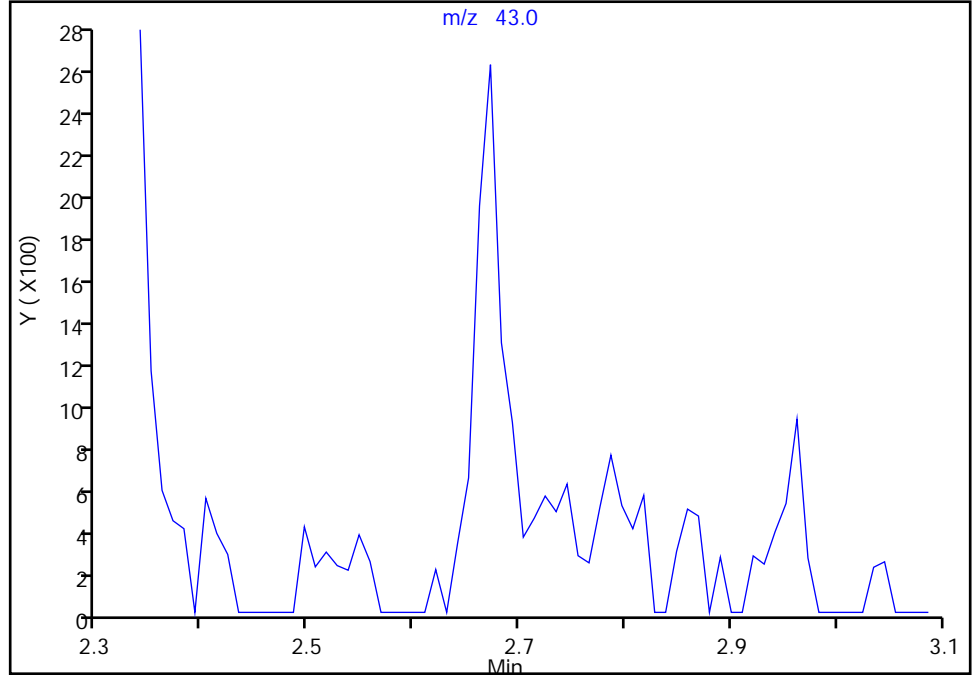
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D
Injection Date: 01-Mar-2019 17:33:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-5 Lab Sample ID: 480-149618-5
Client ID: ML-7D
Operator ID: kn ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

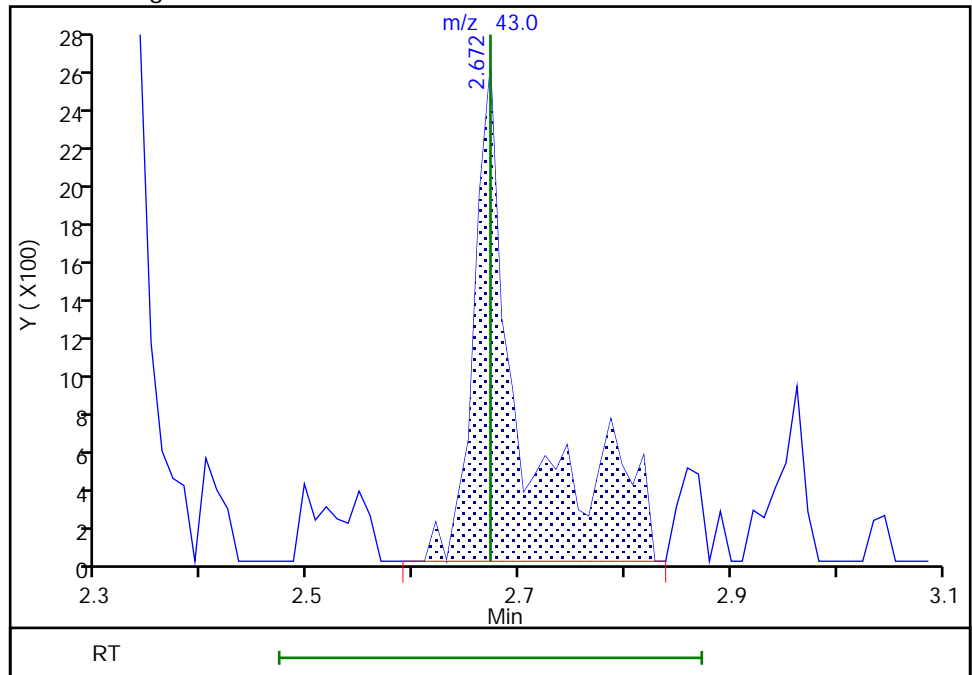
Not Detected
Expected RT: 2.67

Processing Integration Results



Manual Integration Results

RT: 2.67
Area: 8413
Amount: 1.518443
Amount Units: ug/L



Reviewer: carrolln, 01-Mar-2019 17:51:01
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

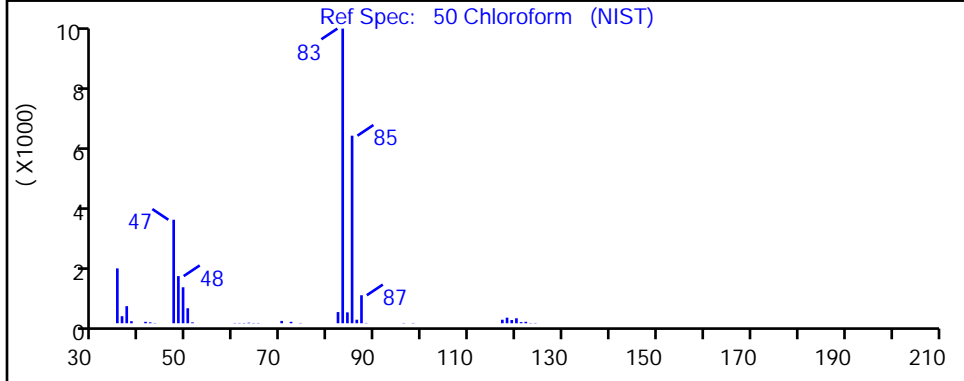
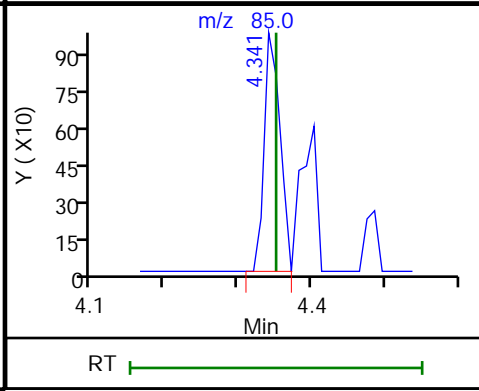
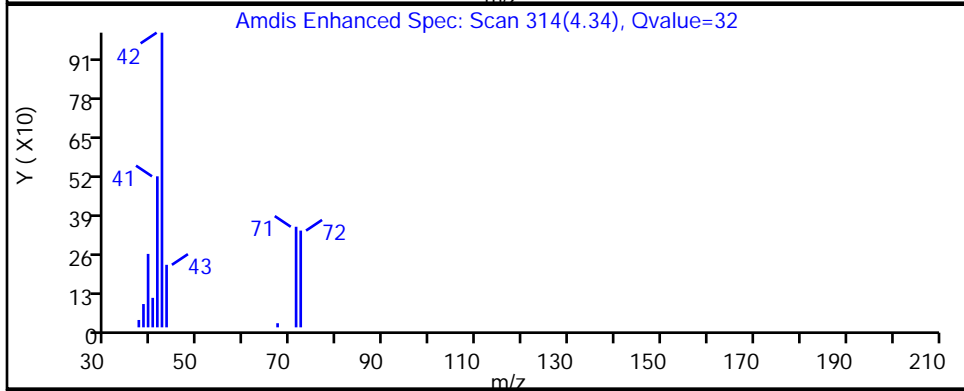
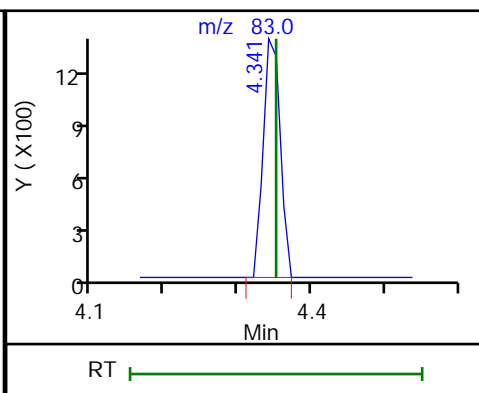
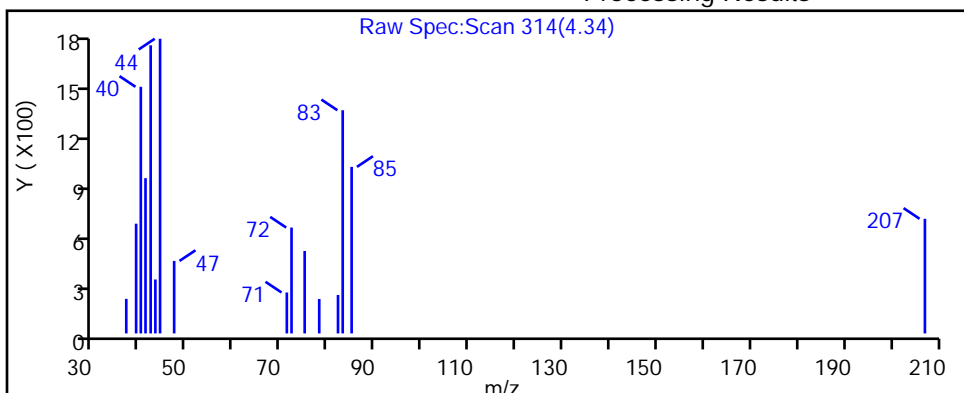
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
4.34	83.00	2148	0.089247
4.34	85.00	1485	

Reviewer: carrolln, 01-Mar-2019 17:51:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

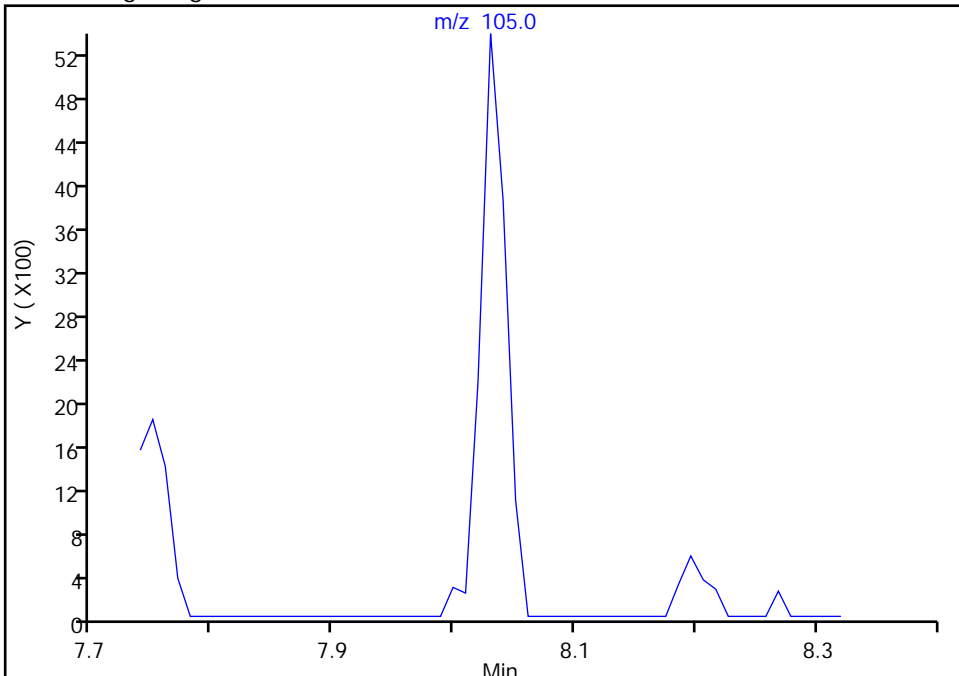
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Injection Date: 01-Mar-2019 17:33:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-5 Lab Sample ID: 480-149618-5
Client ID: ML-7D
Operator ID: kn ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8

Signal: 1

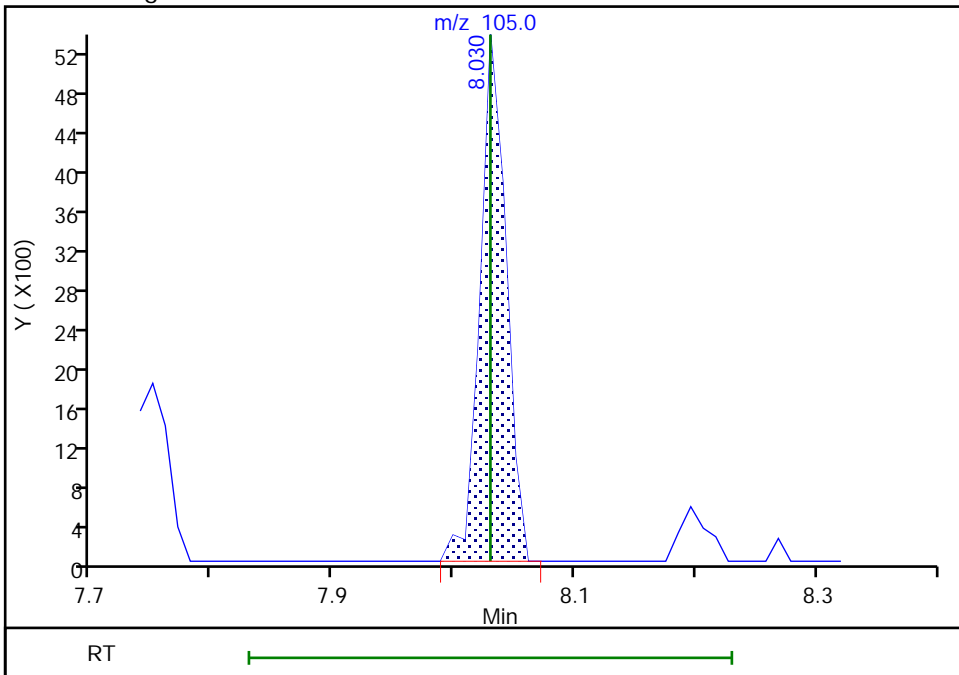
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.03
Area: 7947
Amount: 0.121626
Amount Units: ug/L



Reviewer: carrolln, 01-Mar-2019 17:52:11
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

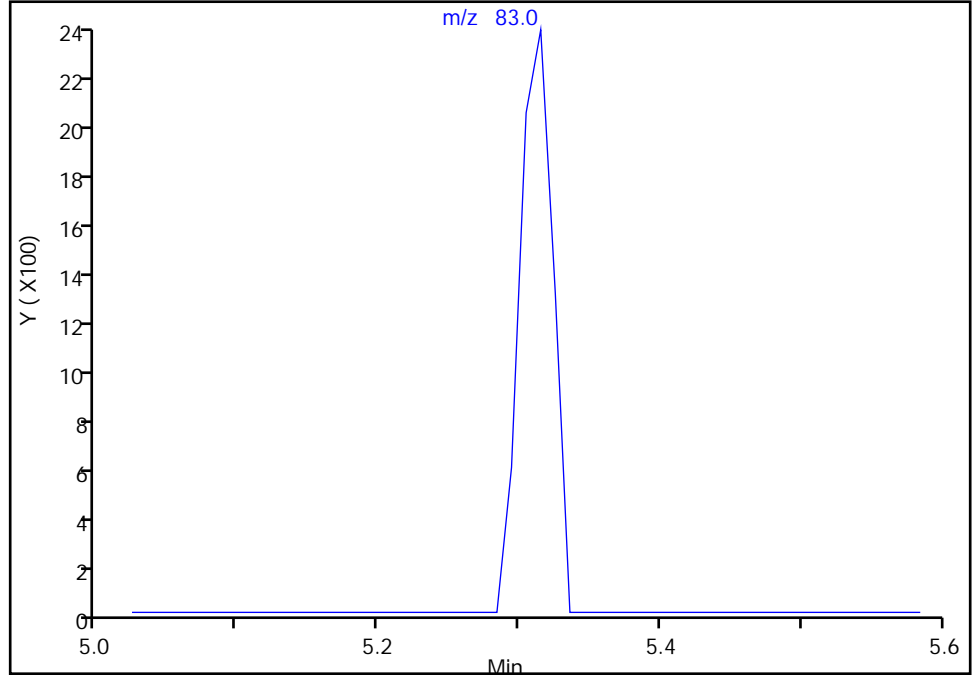
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D
Injection Date: 01-Mar-2019 17:33:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-5 Lab Sample ID: 480-149618-5
Client ID: ML-7D
Operator ID: kn ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Signal: 1

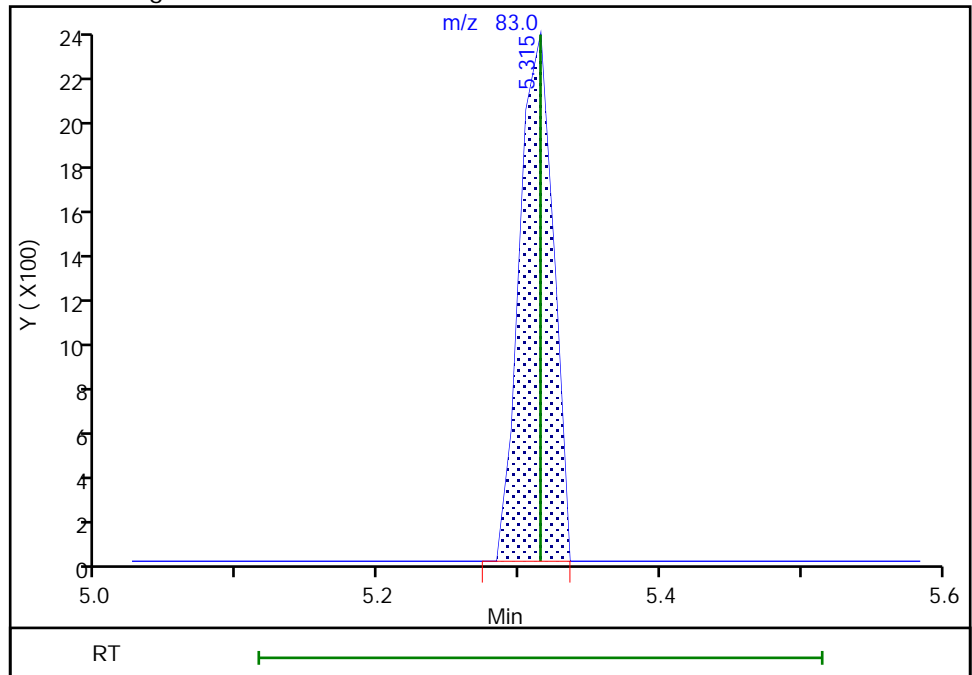
Not Detected
Expected RT: 5.31

Processing Integration Results



RT: 5.31
Area: 3934
Amount: 0.224123
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 01-Mar-2019 17:51:30
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

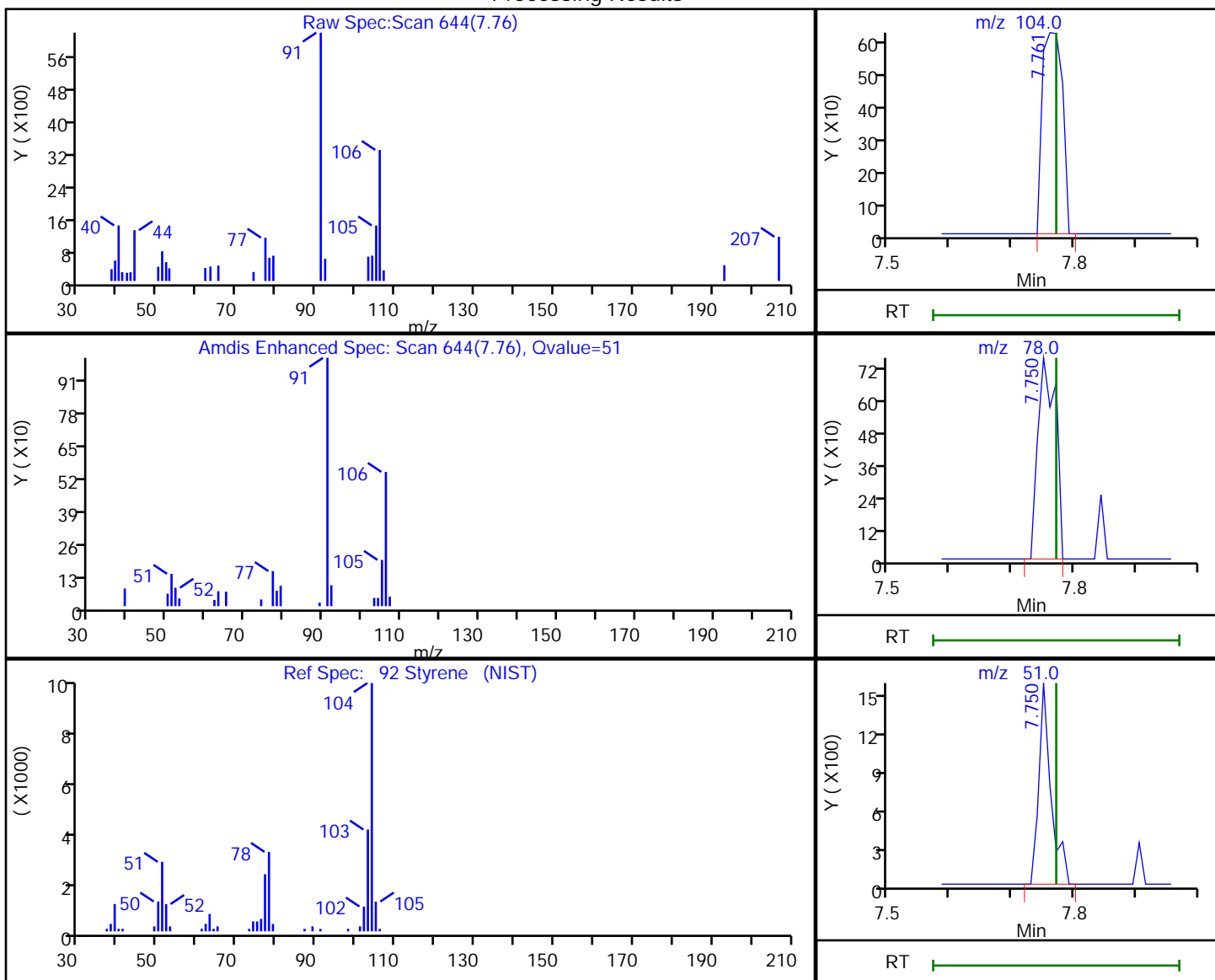
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.76	104.00	1415	0.038984
7.75	78.00	1510	
7.75	51.00	2057	

Reviewer: carrolln, 01-Mar-2019 17:52:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

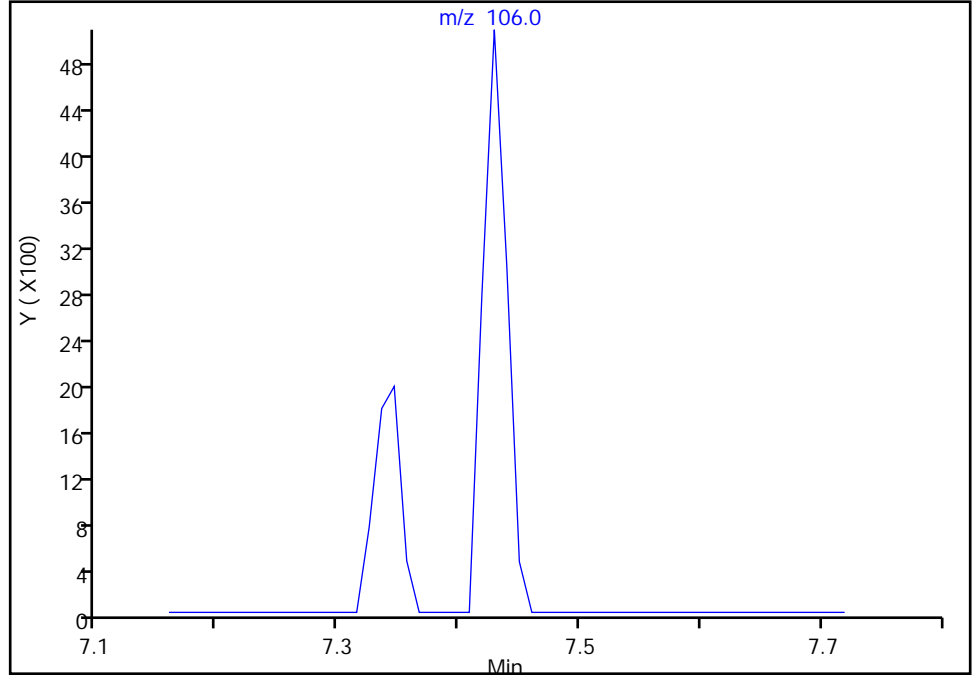
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D
Injection Date: 01-Mar-2019 17:33:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-5 Lab Sample ID: 480-149618-5
Client ID: ML-7D
Operator ID: kn ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

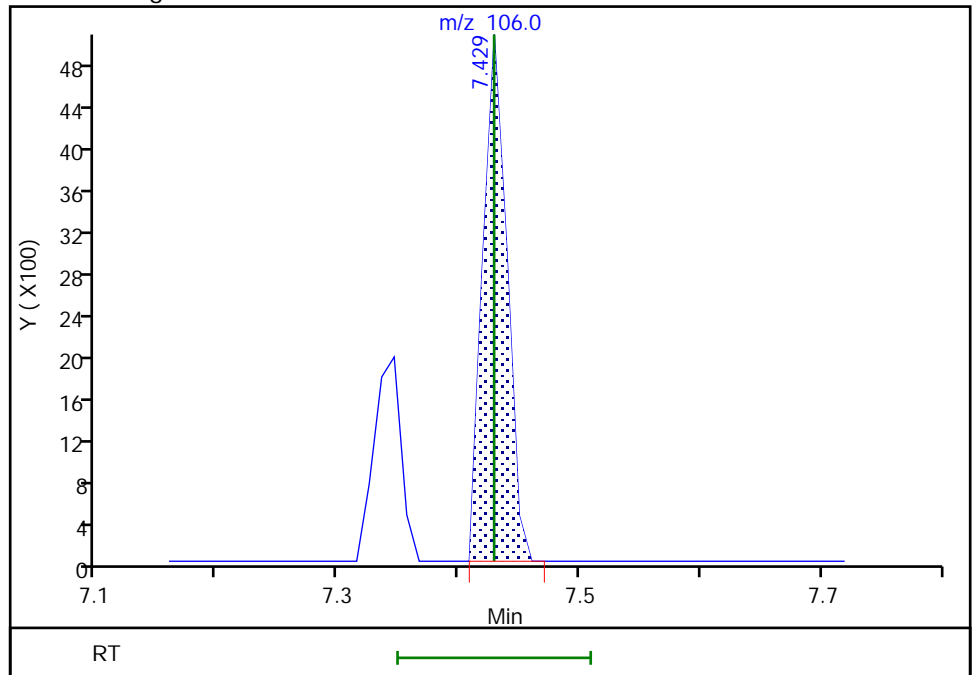
Not Detected
Expected RT: 7.43

Processing Integration Results



Manual Integration Results

RT: 7.43
Area: 7017
Amount: 0.300696
Amount Units: ug/L



Reviewer: carrolln, 01-Mar-2019 17:51:58
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4993.D

Injection Date: 01-Mar-2019 17:33:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-5

Lab Sample ID: 480-149618-5

Client ID: ML-7D

Operator ID: kn

ALS Bottle#: 20 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

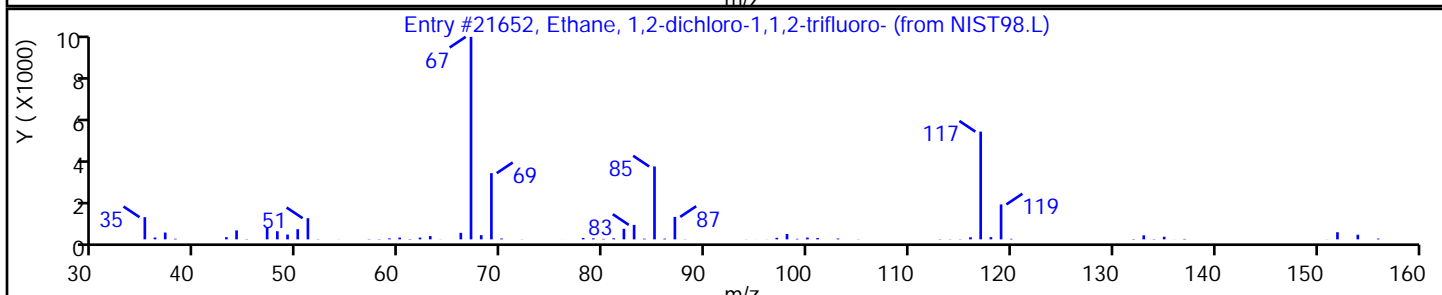
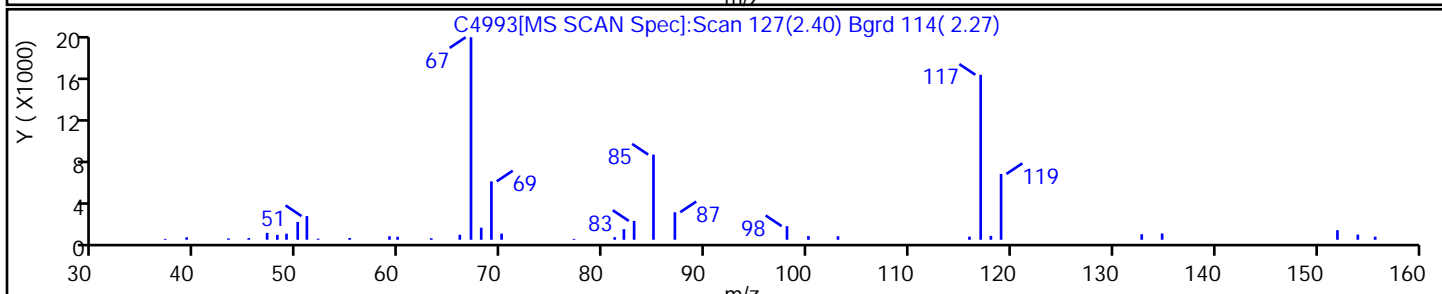
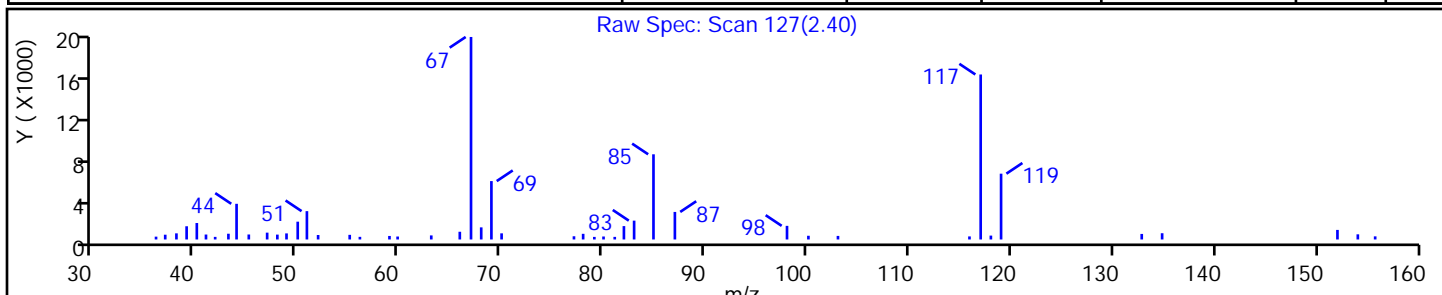
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	90



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 Lab Sample ID: 480-149618-6
 Matrix: Water Lab File ID: C4996.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	0.82	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.0	J	10	3.0
71-43-2	Benzene	10		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	80		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	230	E	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	1.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 Lab Sample ID: 480-149618-6
 Matrix: Water Lab File ID: C4996.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	2.5	1.3
1634-04-4	Methyl tert-butyl ether	58		1.0	0.16
108-87-2	Methylcyclohexane	0.18	J	1.0	0.16
75-09-2	Methylene Chloride	0.55	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	1.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	180	E	1.0	0.90
1330-20-7	Xylenes, Total	0.71	J	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 Lab Sample ID: 480-149618-6
 Matrix: Water Lab File ID: C4996.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 15.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
60-29-7	Ethyl ether	2.33	13	T J N	90%
	Unknown	4.79	2.9	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D
 Lims ID: 480-149618-A-6
 Client ID: GMX-MW3
 Sample Type: Client
 Inject. Date: 01-Mar-2019 18:52:30 ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-149618-A-6
 Misc. Info.: 480-0079046-023
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 19:14:42 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln Date: 01-Mar-2019 19:14:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	205778	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	85	448316	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.128	0.001	94	497644	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.001	93	317482	27.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.001	82	184719	25.6	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	93	1104734	24.0	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	95	376215	26.6	
10 Dichlorodifluoromethane	85		1.180				ND	U
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.449	0.001	98	2556927	179.2	E
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.823	1.822	0.001	99	719216	79.8	
17 Trichlorofluoromethane	101		2.050				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.527				ND	
22 1,1-Dichloroethene	96	2.538	2.538	-0.010	36	1373	0.1301	a
23 Acetone	43	2.662	2.662	-0.010	99	16280	3.02	M
26 Carbon disulfide	76		2.734				ND	U
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.035	0.000	96	7514	0.5525	
32 Methyl tert-butyl ether	73	3.222	3.221	0.001	98	2134206	57.7	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	97	16938	1.31	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	95	19010	0.8167	
45 cis-1,2-Dichloroethene	96	4.082	4.092	0.000	80	3562050	231.2	E
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83		4.351				ND	Ua
51 1,1,1-Trichloroethane	97		4.434				ND	
52 Cyclohexane	56	4.444	4.444	0.000	95	22255	1.15	
55 Carbon tetrachloride	117		4.548				ND	
57 Benzene	78	4.735	4.734	0.001	92	495933	10.3	
58 1,2-Dichloroethane	62		4.786				ND	U
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.305	5.315	-0.010	89	2992	0.1751	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	U
73 4-Methyl-2-pentanone (MIBK)	43		6.061				ND	
74 Toluene	92	6.175	6.166	0.000	98	48111	1.51	
77 trans-1,3-Dichloropropene	75		6.393				ND	U
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.589				ND	
80 2-Hexanone	43		6.703				ND	U
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.931				ND	
87 Chlorobenzene	112	7.284	7.274	0.000	71	11181	0.3012	
88 Ethylbenzene	91		7.336				ND	U
90 m-Xylene & p-Xylene	106	7.429	7.418	0.000	96	17390	0.7125	
91 o-Xylene	106	7.750	7.739	0.000	97	11607	0.4496	
92 Styrene	104		7.771				ND	U
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105		8.030				ND	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	U
111 1,3-Dichlorobenzene	146		9.077				ND	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	94	9969	0.2784	
116 1,2-Dichlorobenzene	146		9.460				ND	Ua
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		1.16	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D
 Lims ID: 480-149618-A-6
 Client ID: GMX-MW3
 Sample Type: Client
 Inject. Date: 01-Mar-2019 18:52:30 ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-149618-A-6
 Misc. Info.: 480-0079046-023
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 19:14:42 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326
 First Level Reviewer: carrolln Date: 01-Mar-2019 19:14:42

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
60-29-7	Ethyl ether							
2.330	1224867	13.0	153	90	1050	C4H10O	74	
	Unknown							
4.786	270265	2.88	153					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
----------	----	------	-------------

* 153 Fluorobenzene (IS) 4.952 2349784 25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Worklist Smp#: 23

Client ID: GMX-MW3

Purge Vol: 5.000 mL

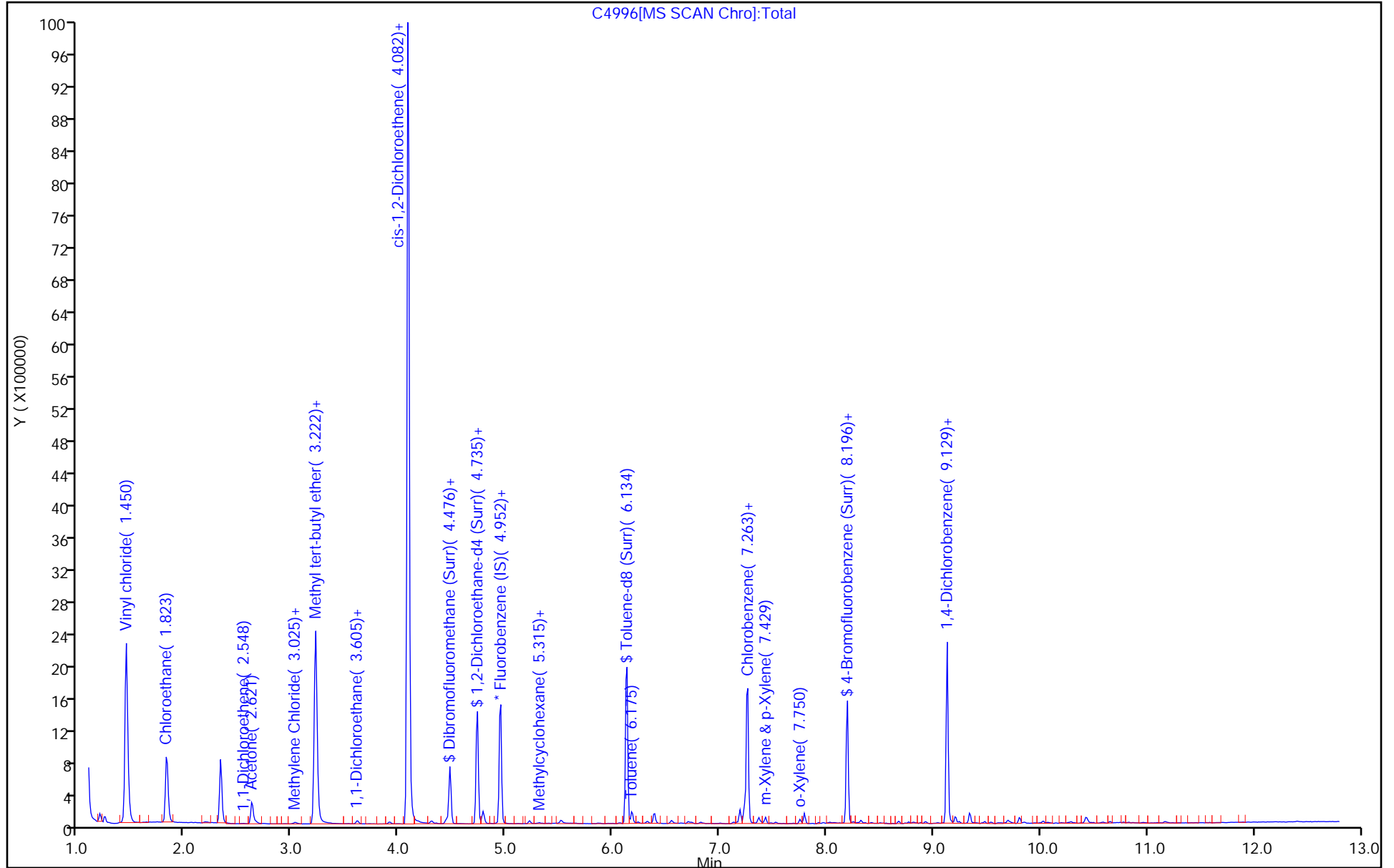
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

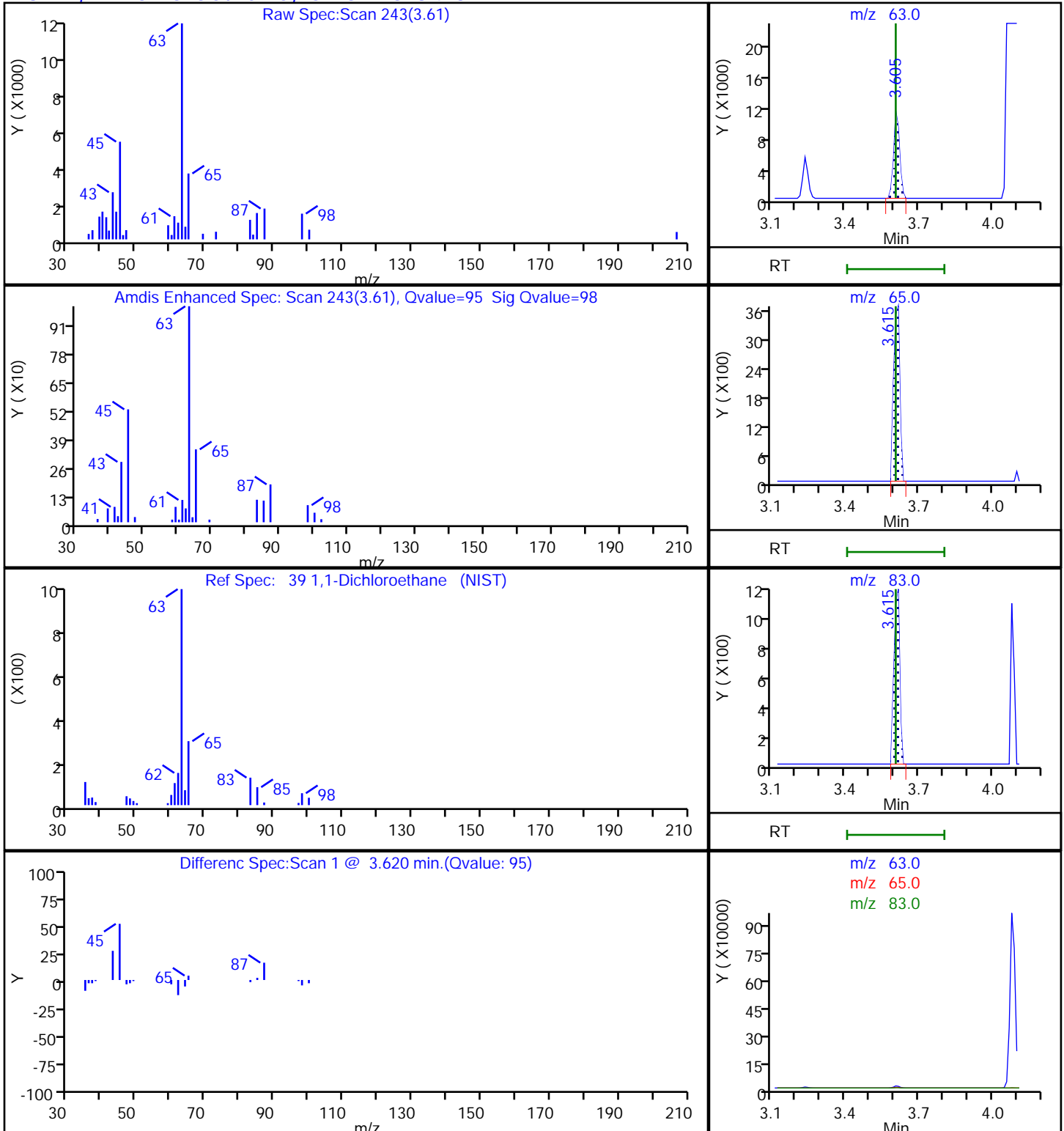
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

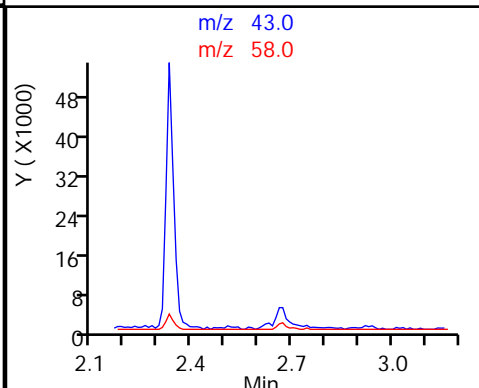
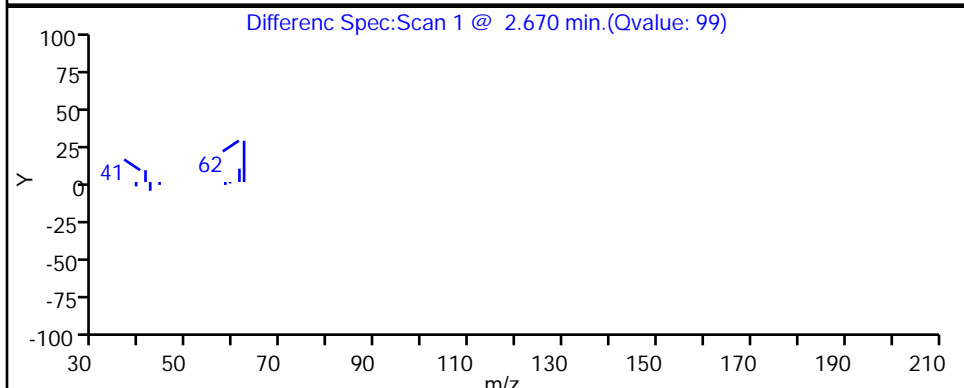
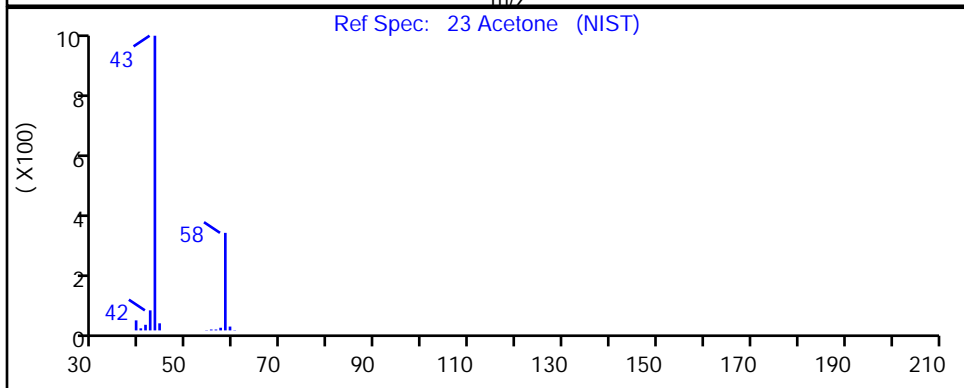
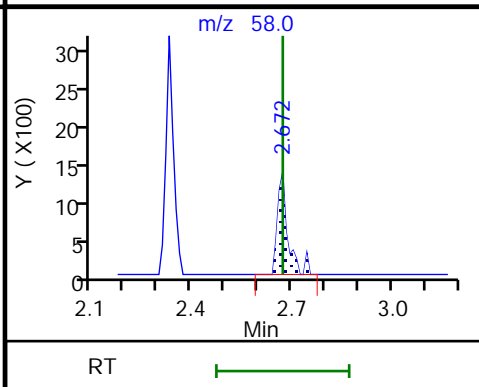
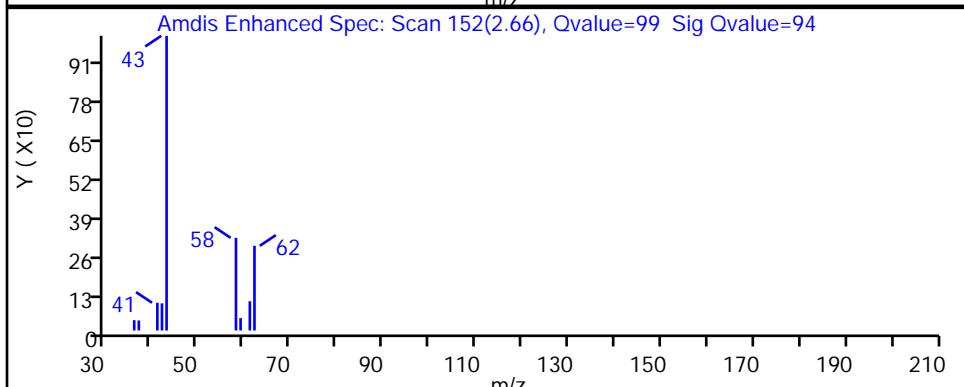
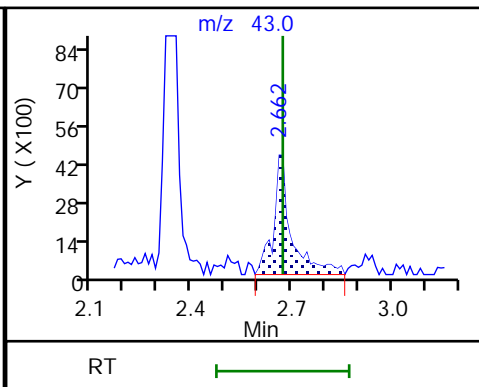
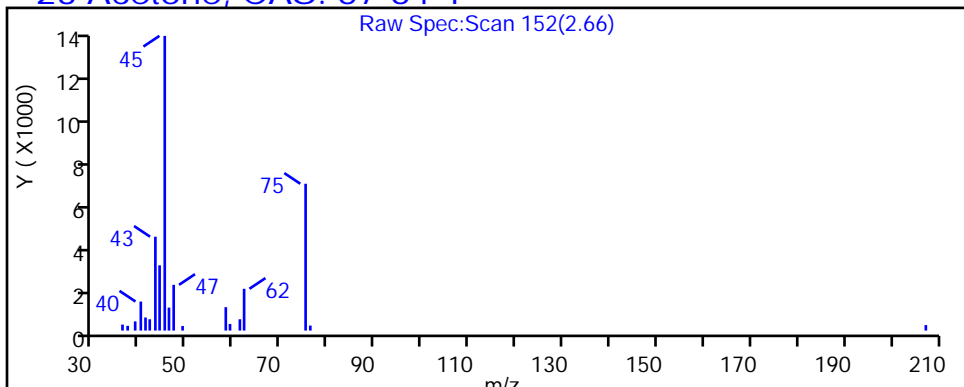
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

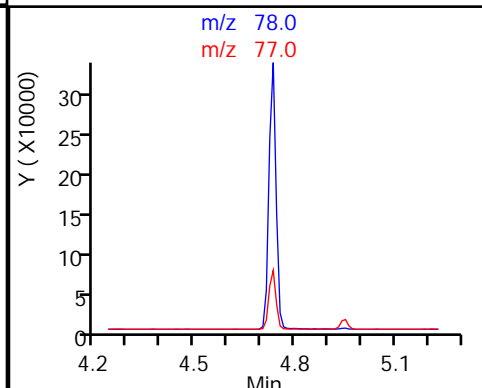
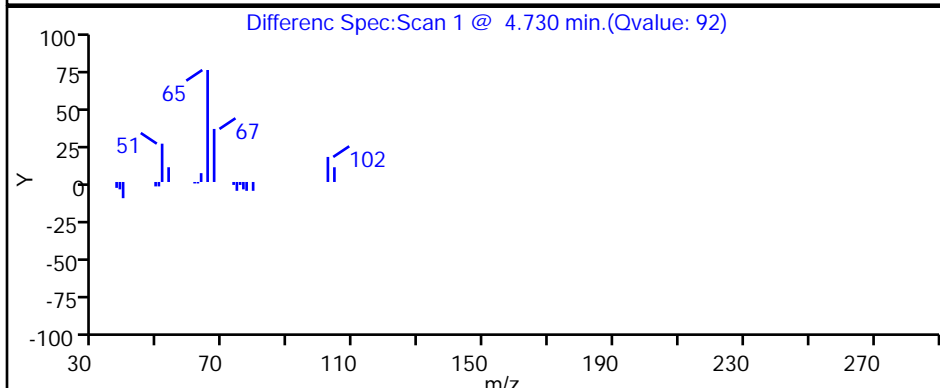
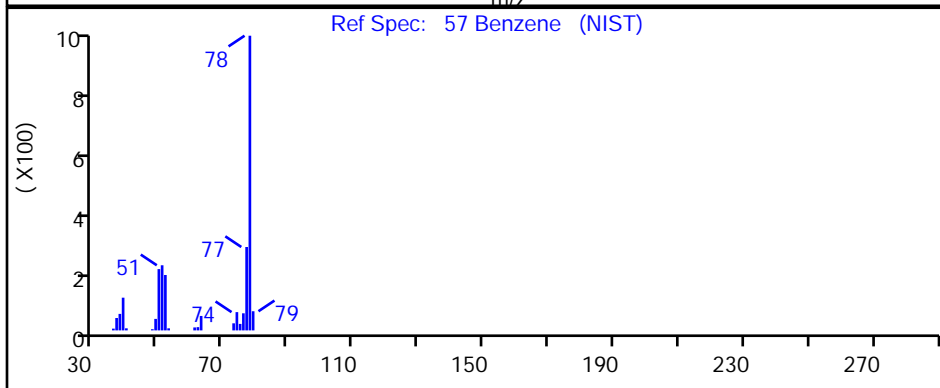
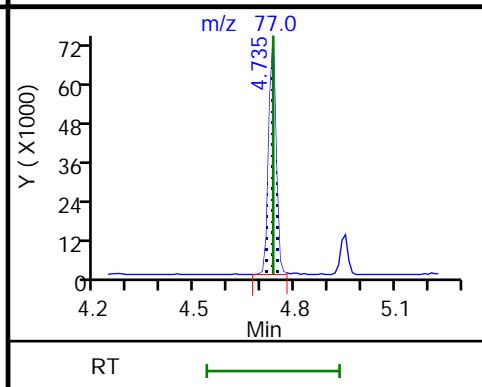
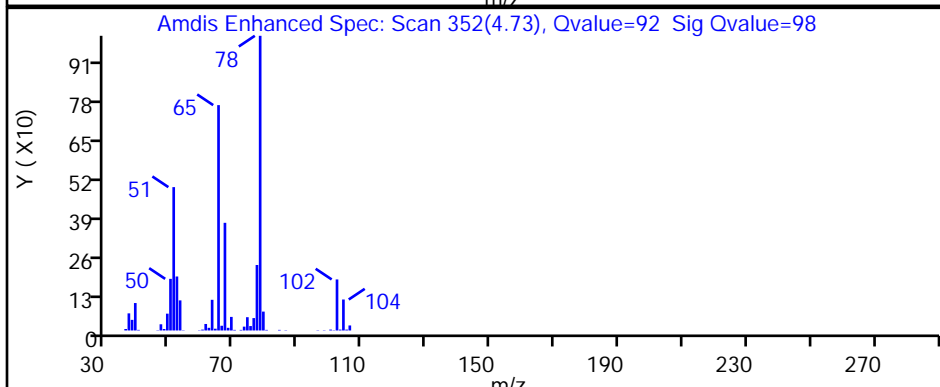
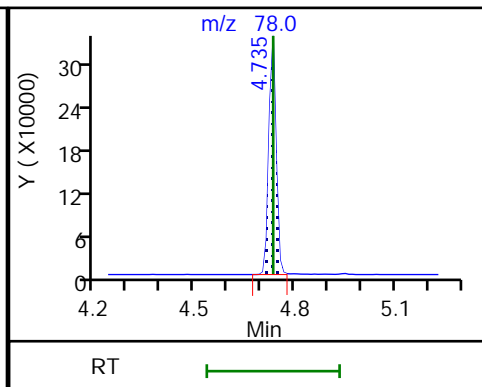
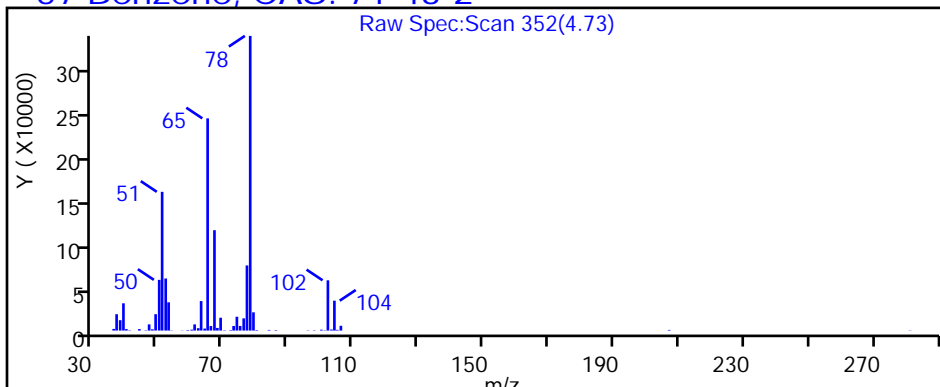
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

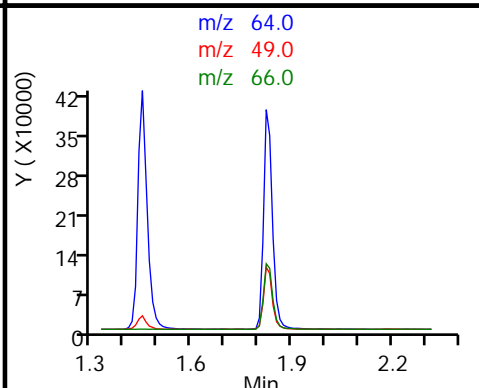
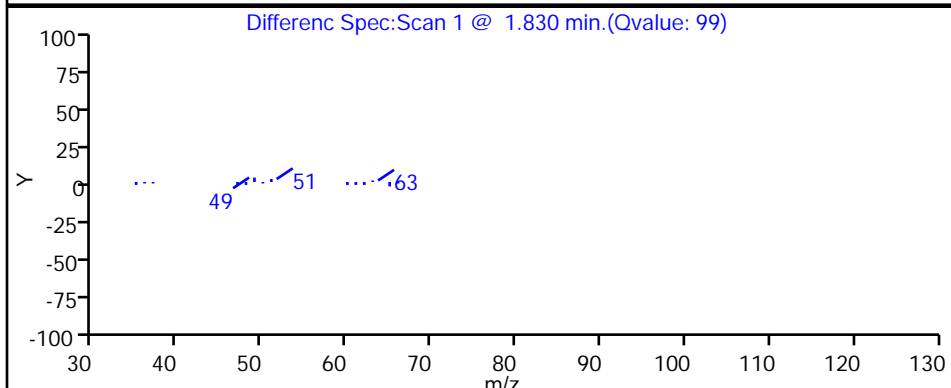
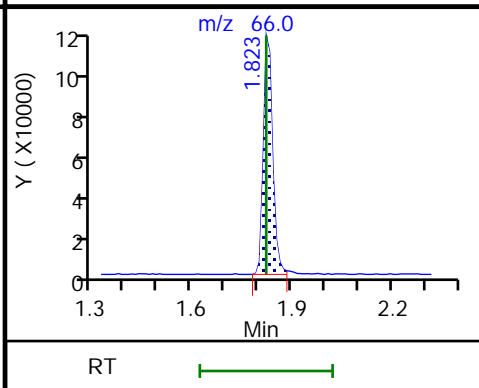
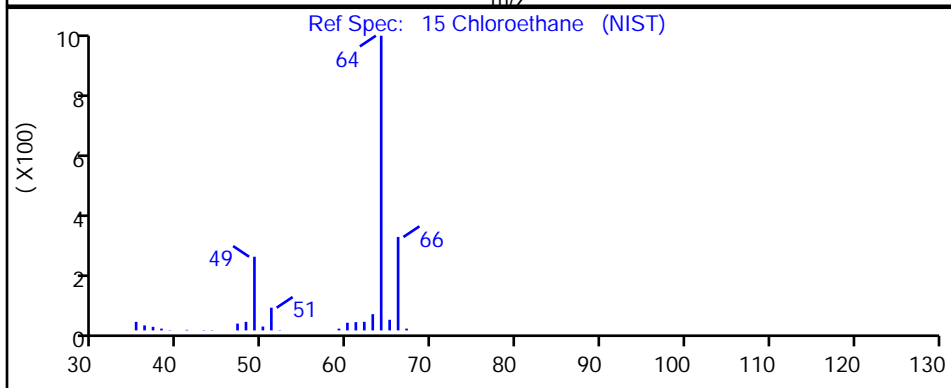
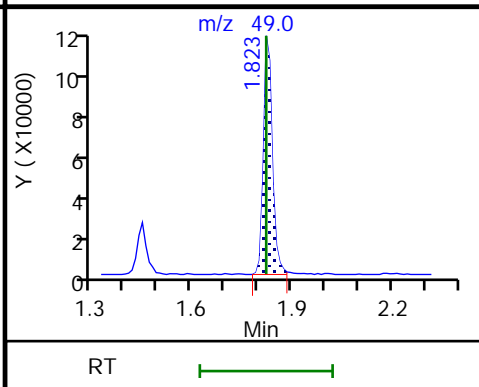
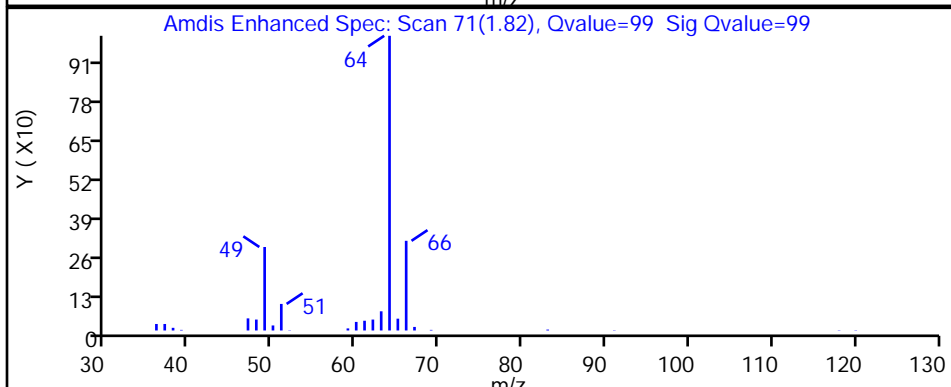
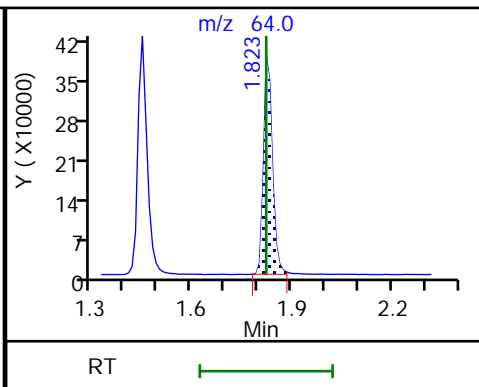
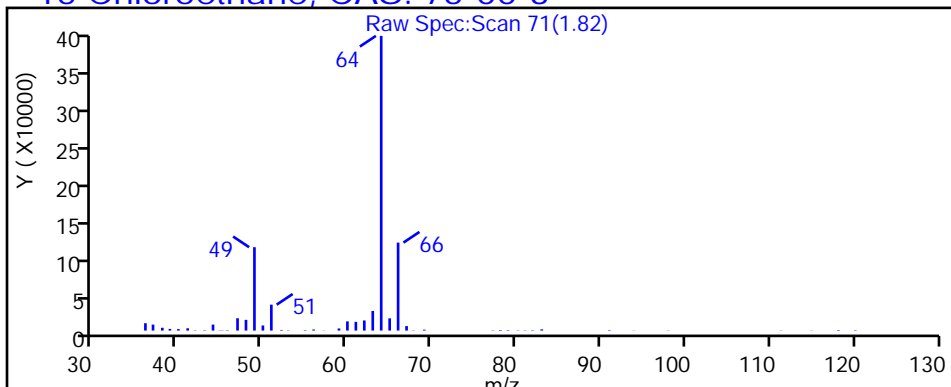
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

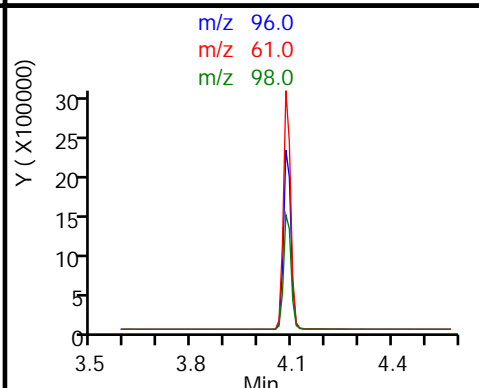
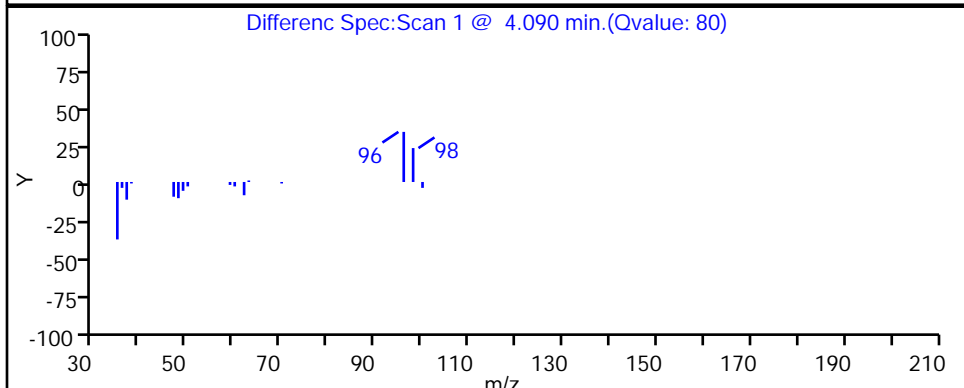
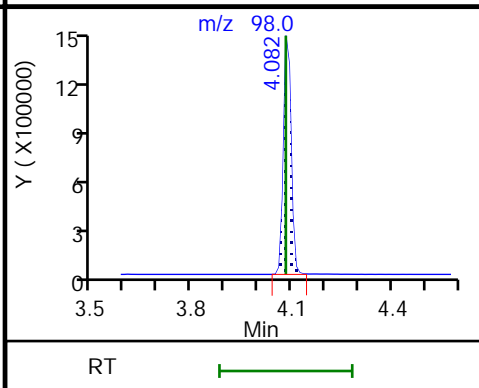
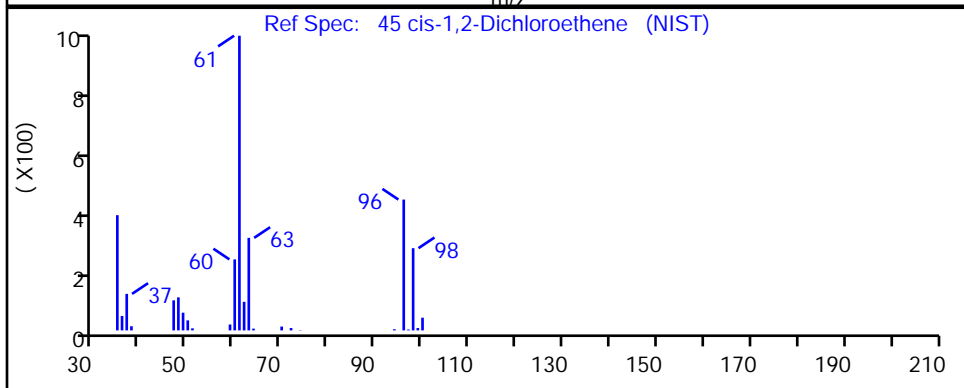
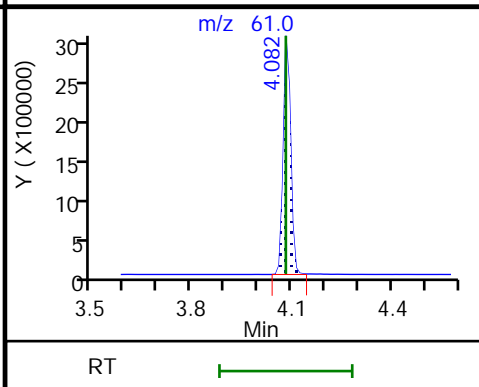
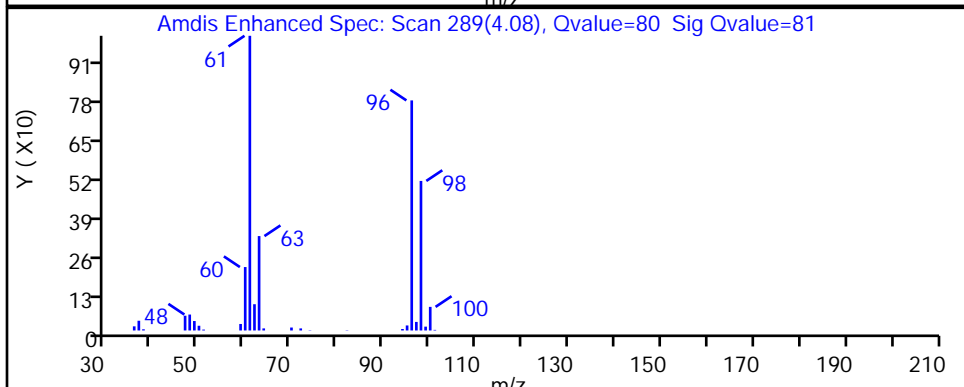
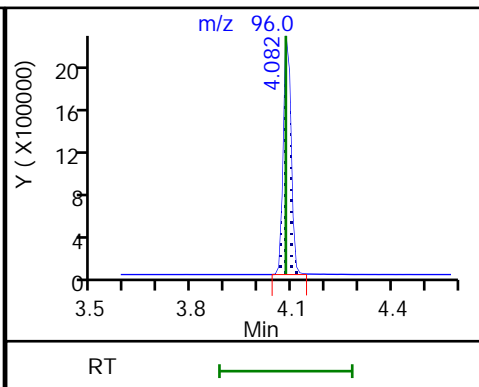
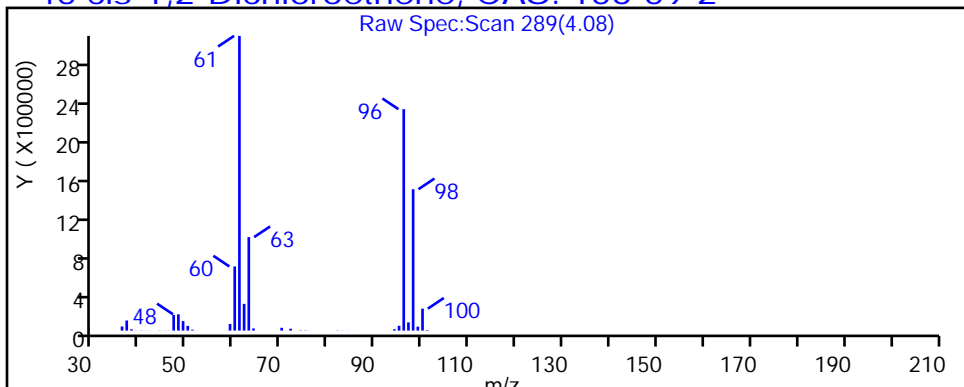
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

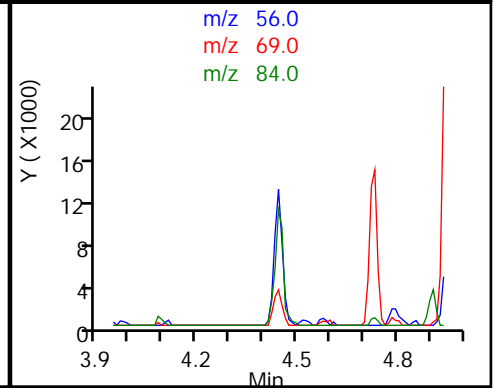
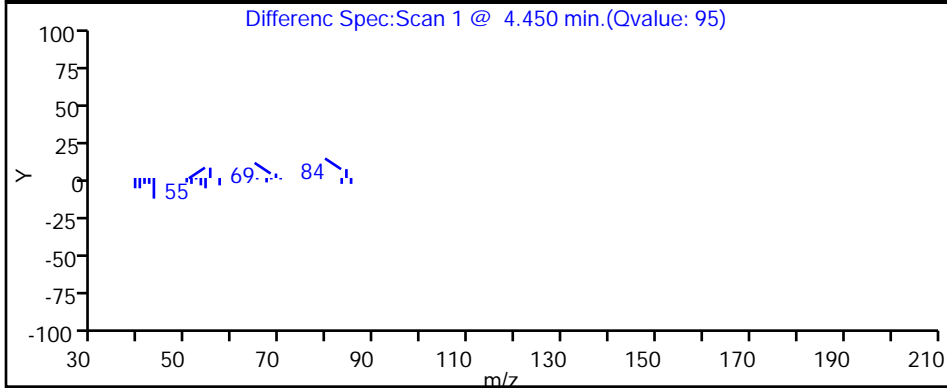
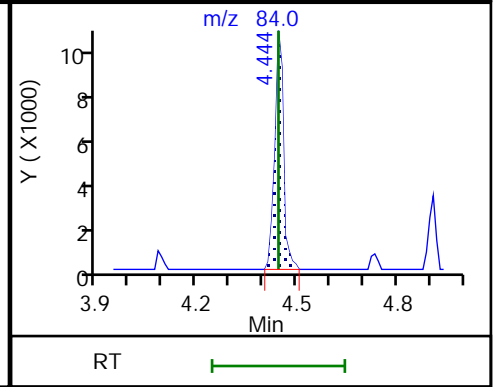
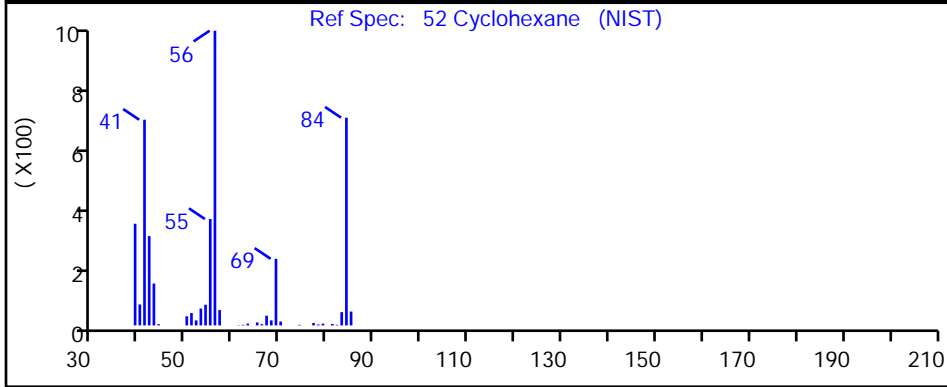
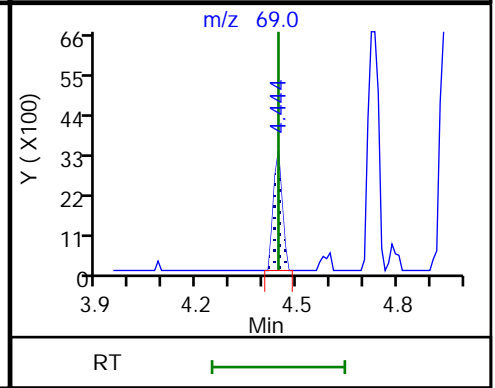
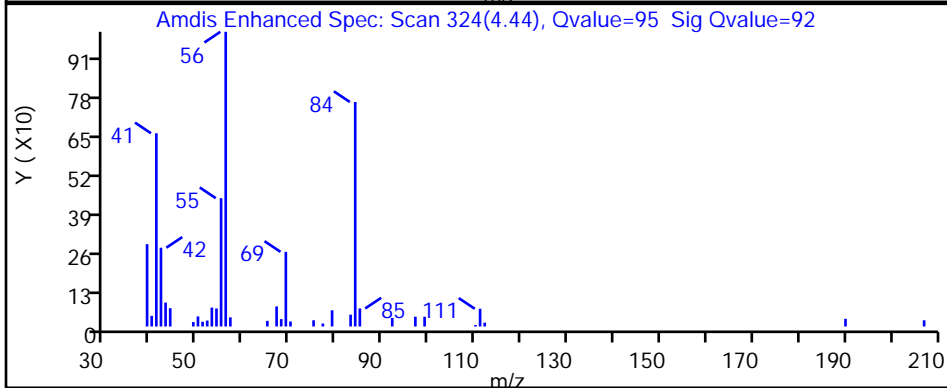
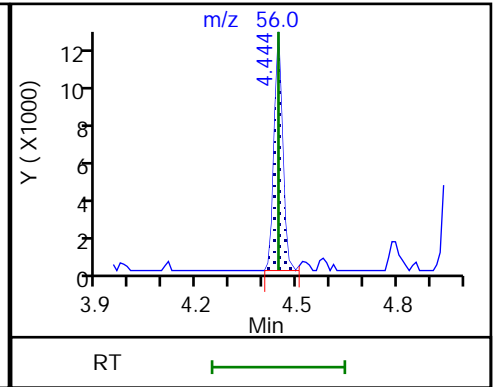
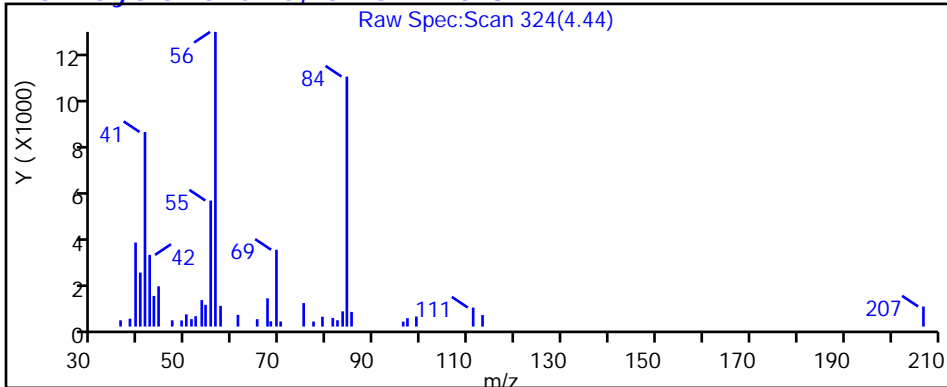
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

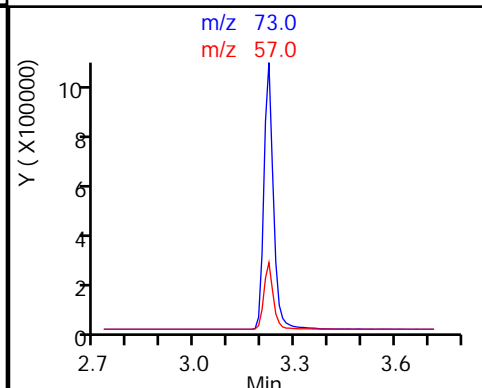
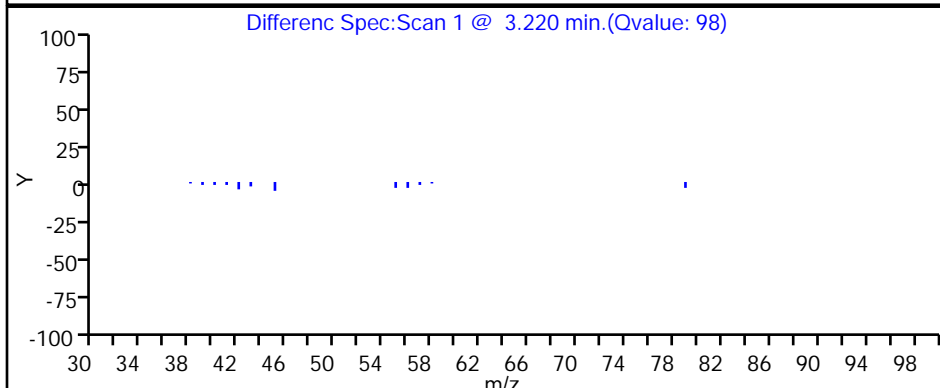
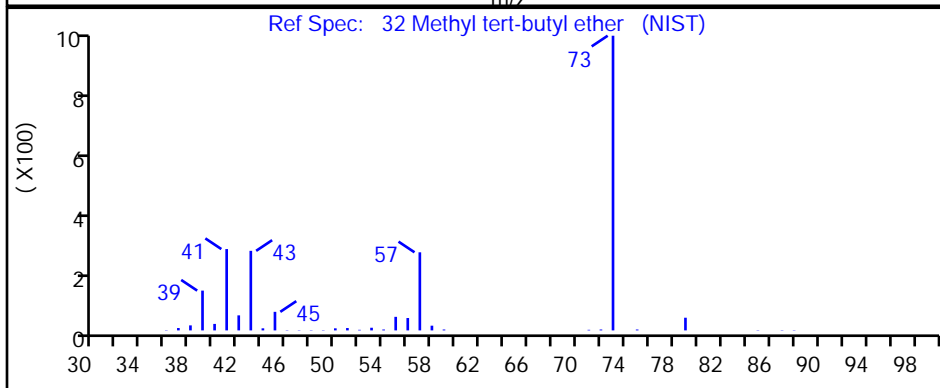
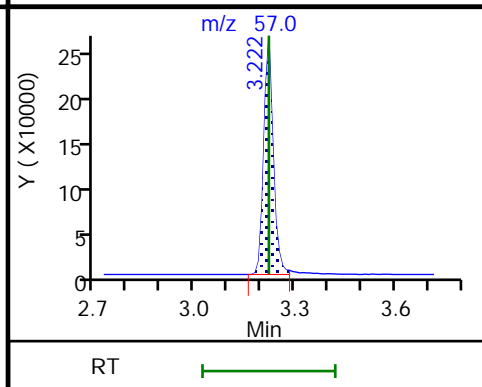
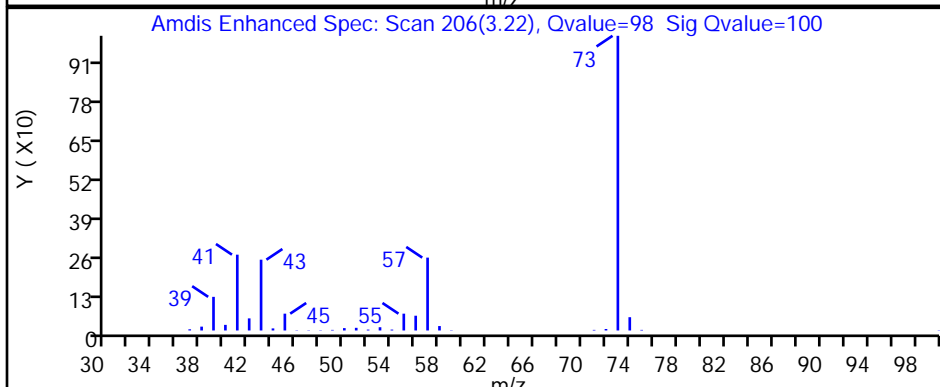
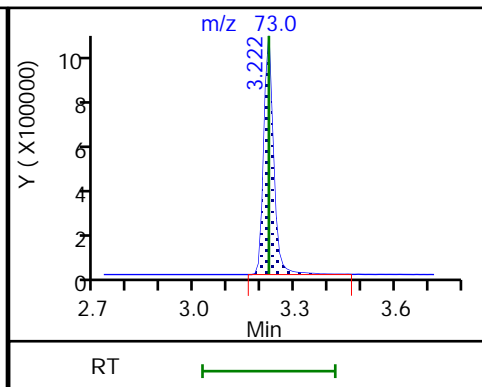
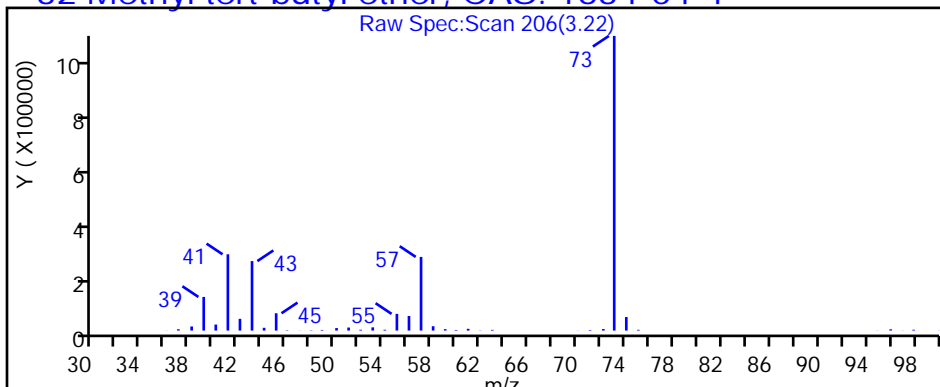
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

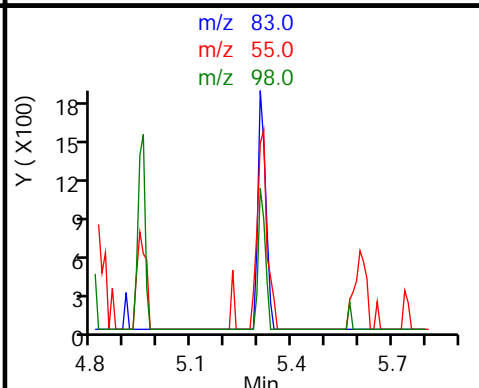
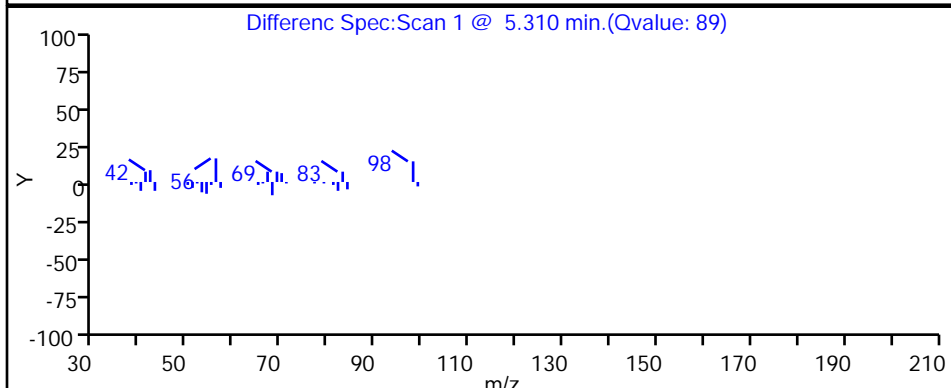
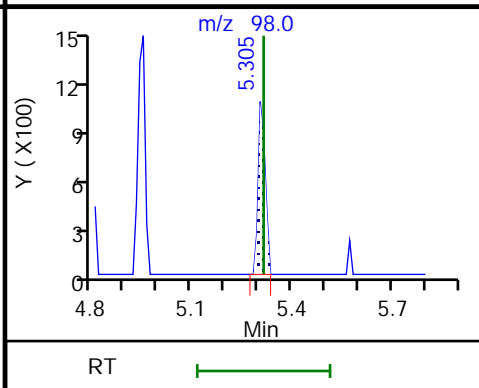
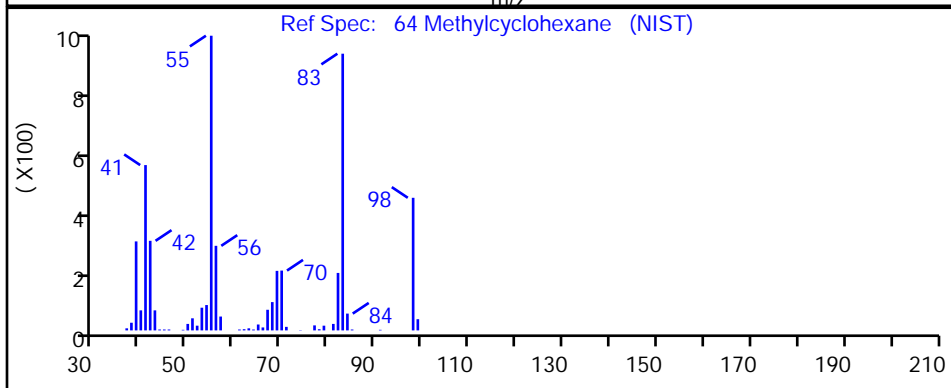
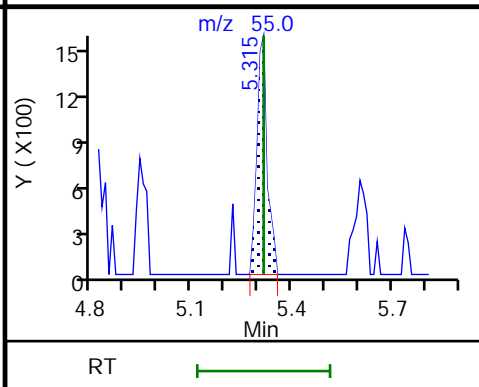
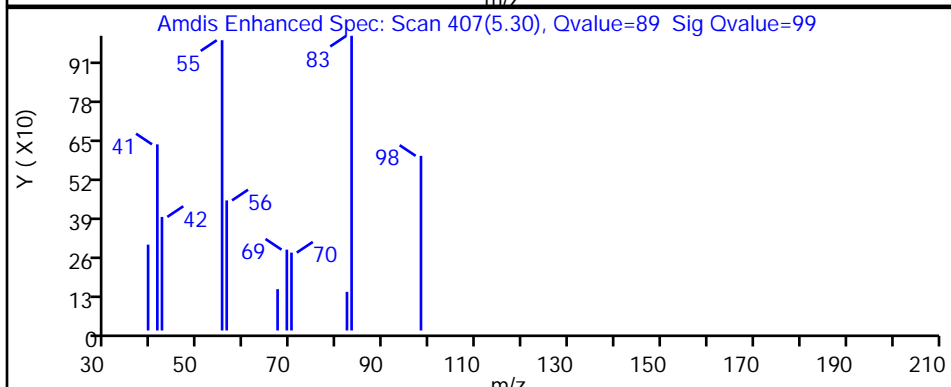
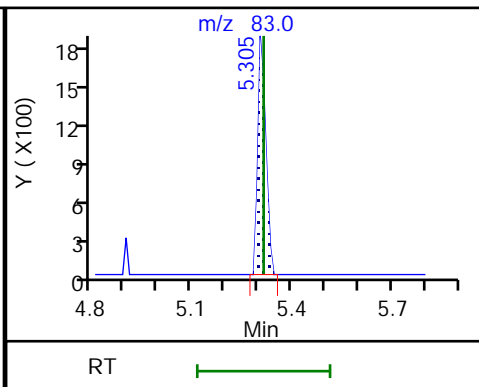
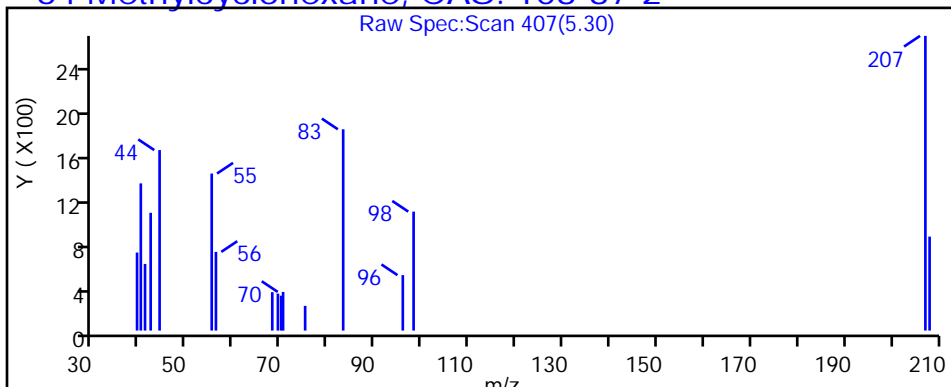
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

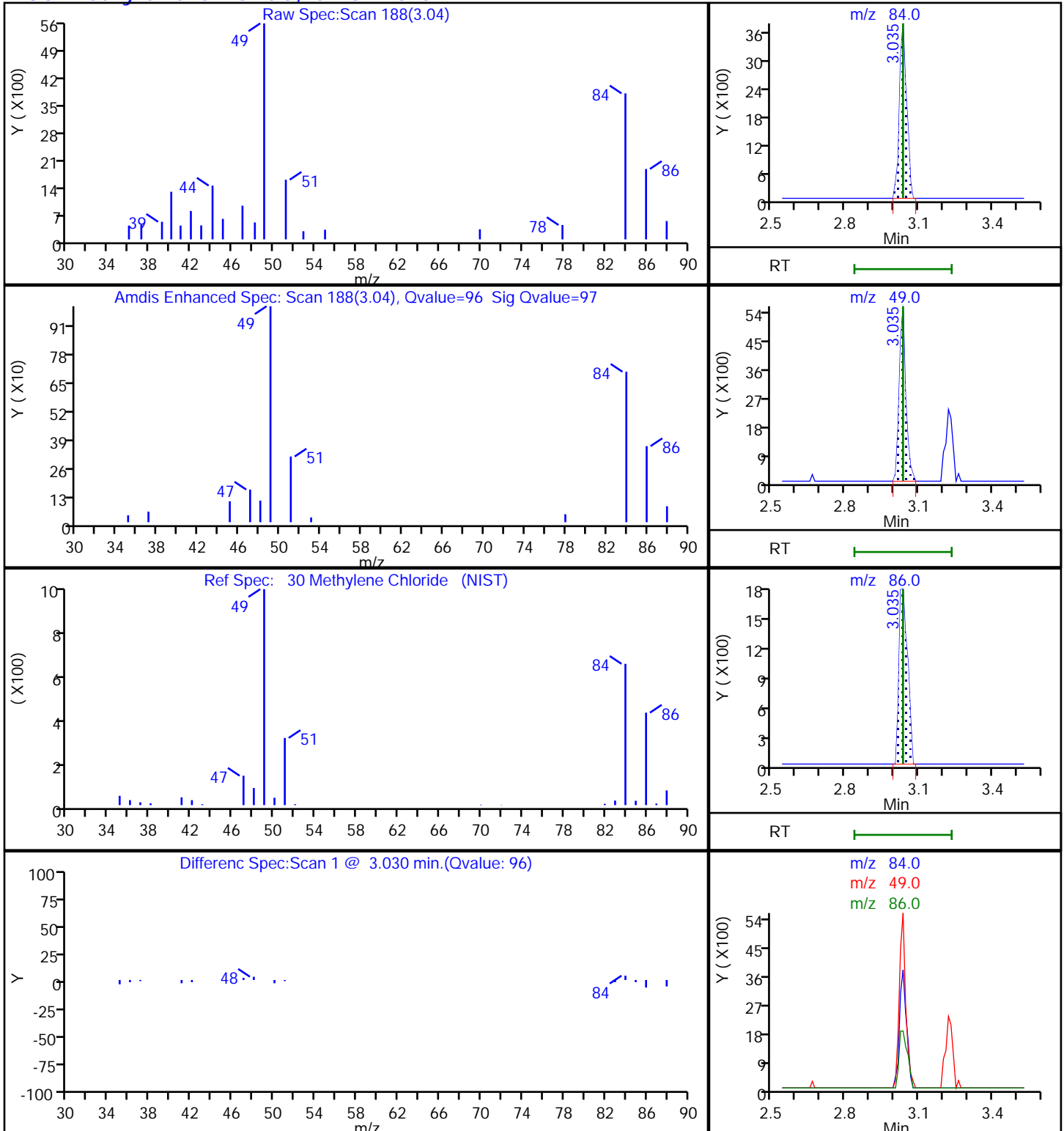
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

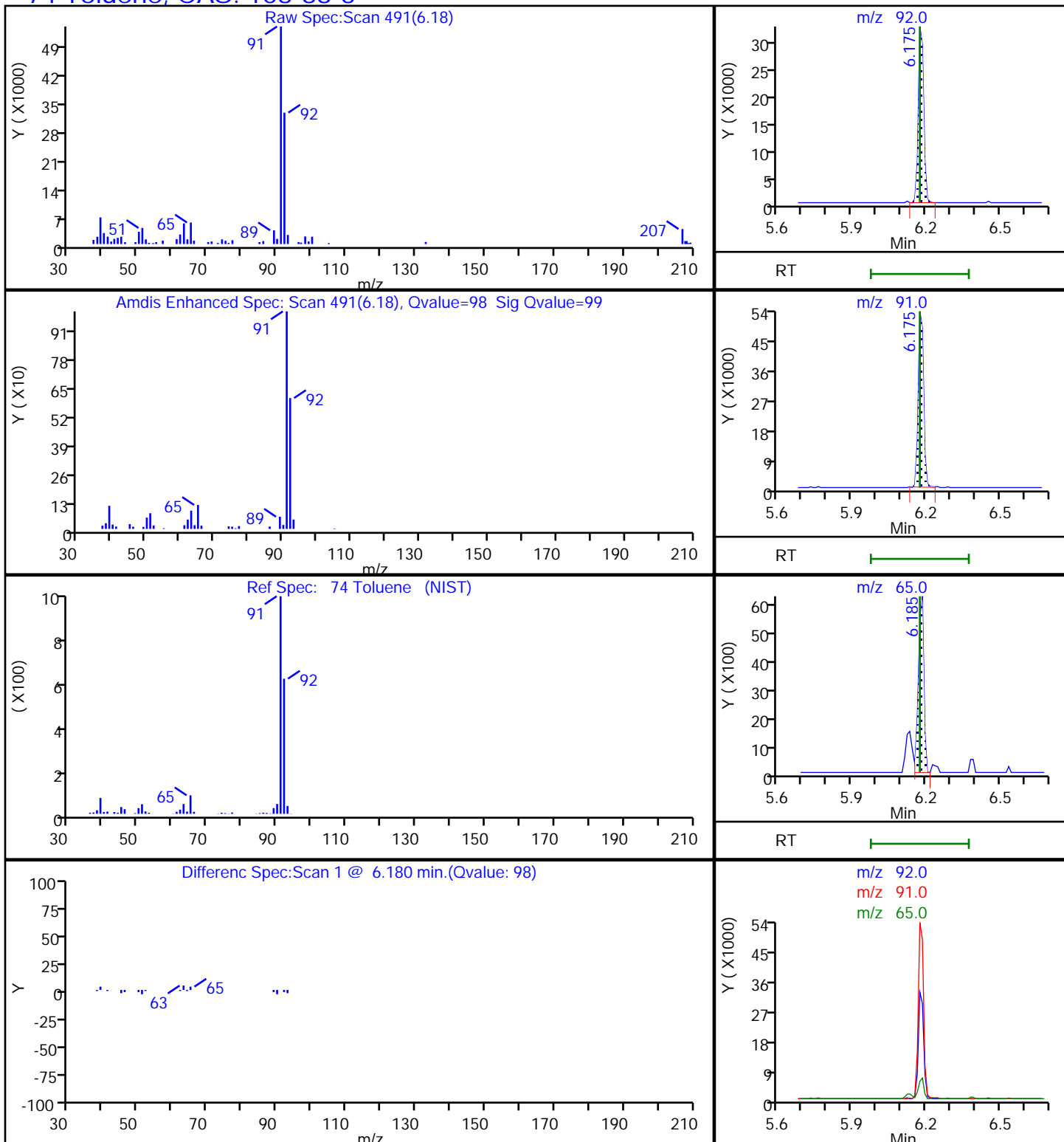
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

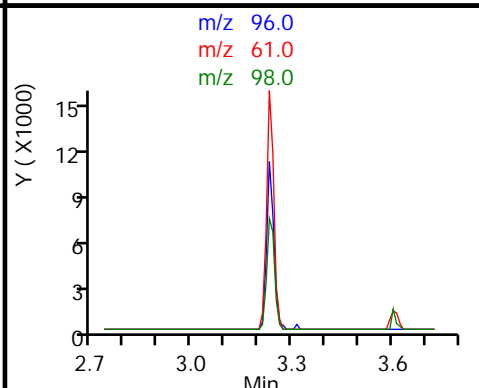
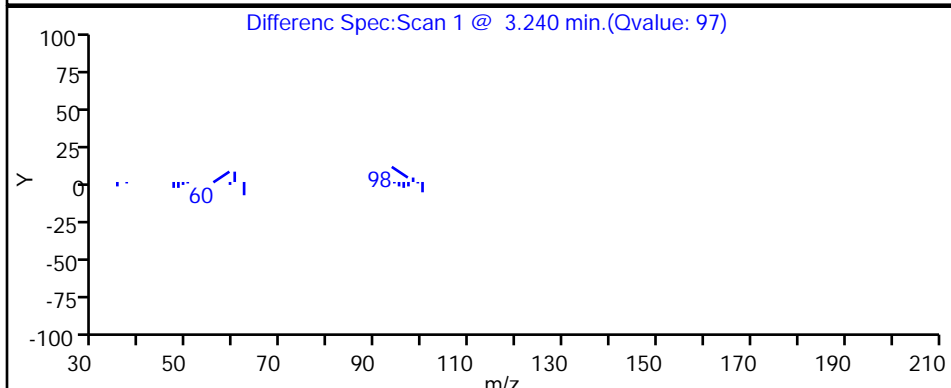
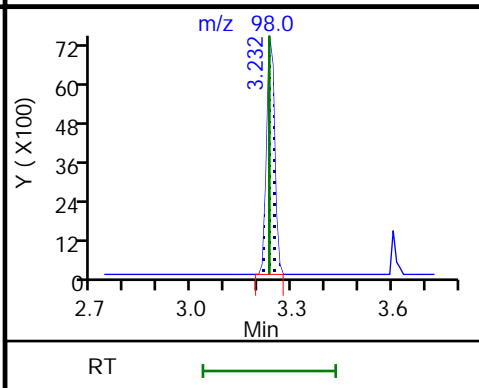
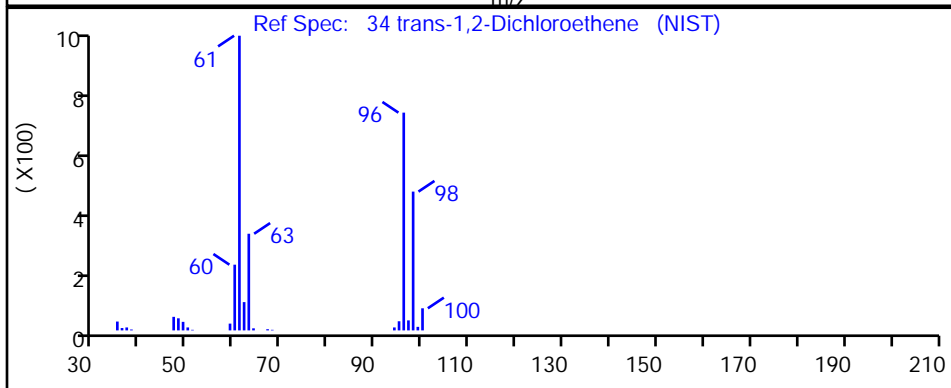
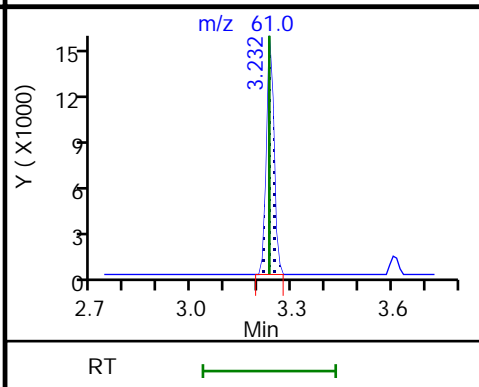
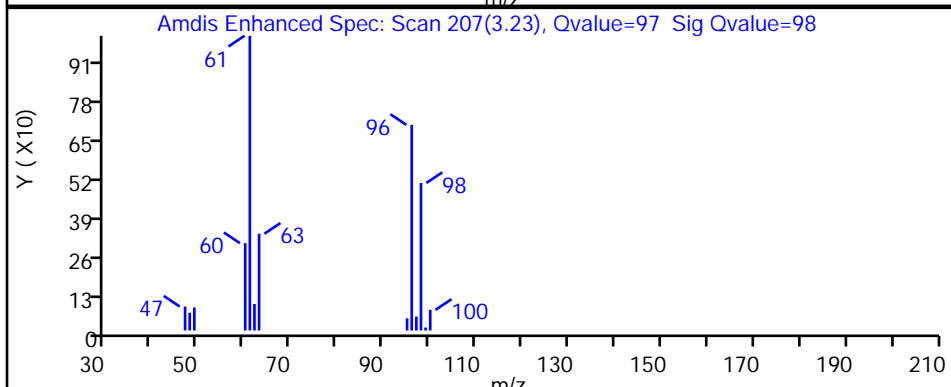
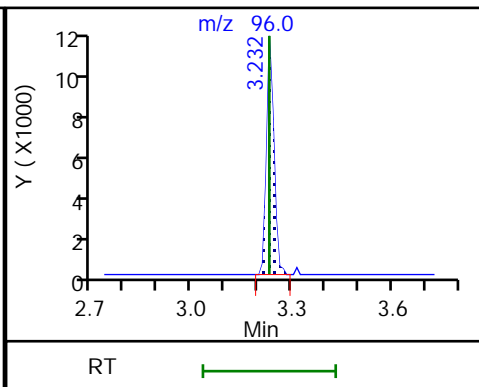
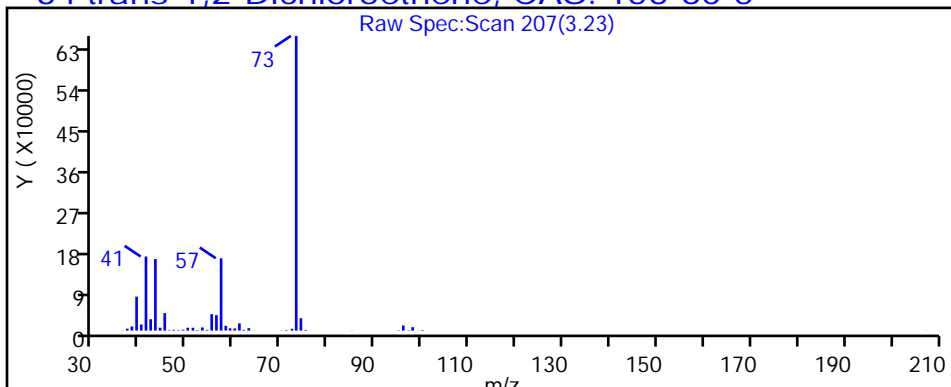
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

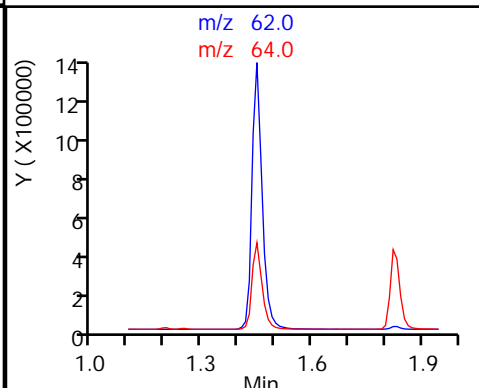
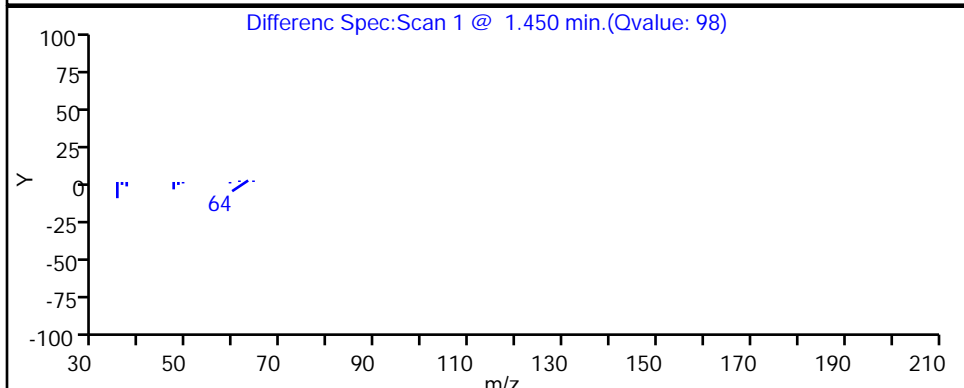
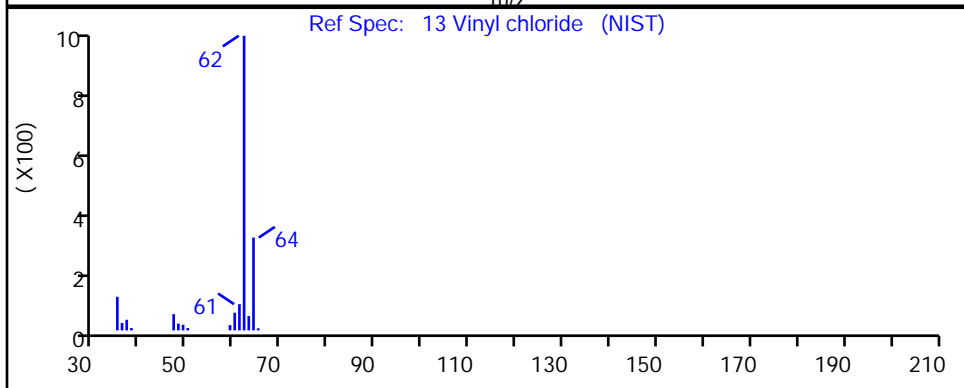
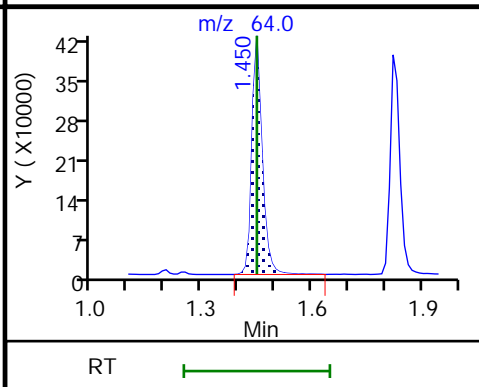
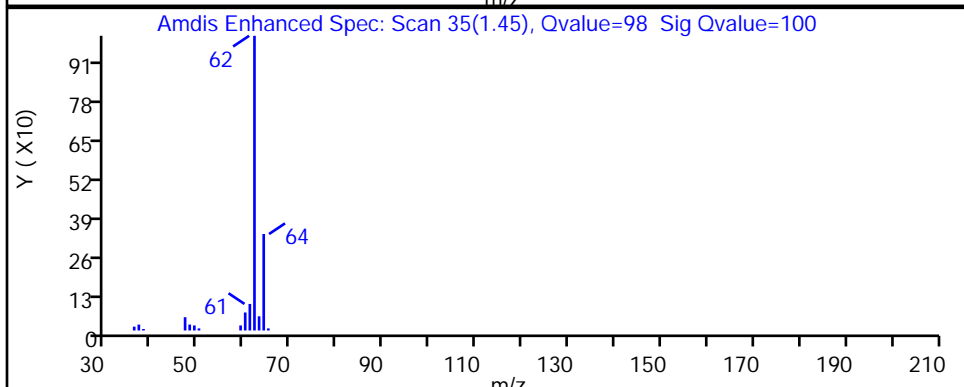
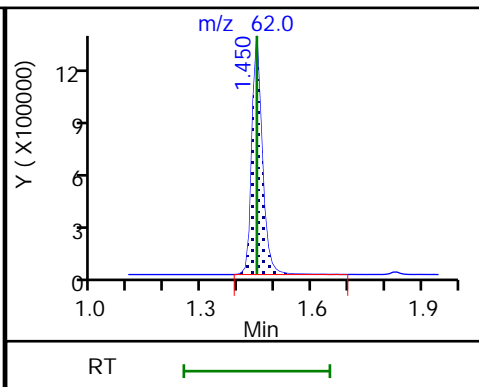
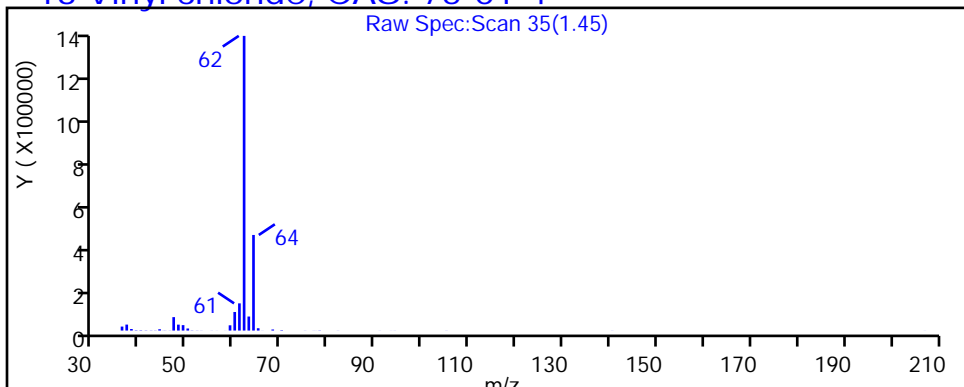
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

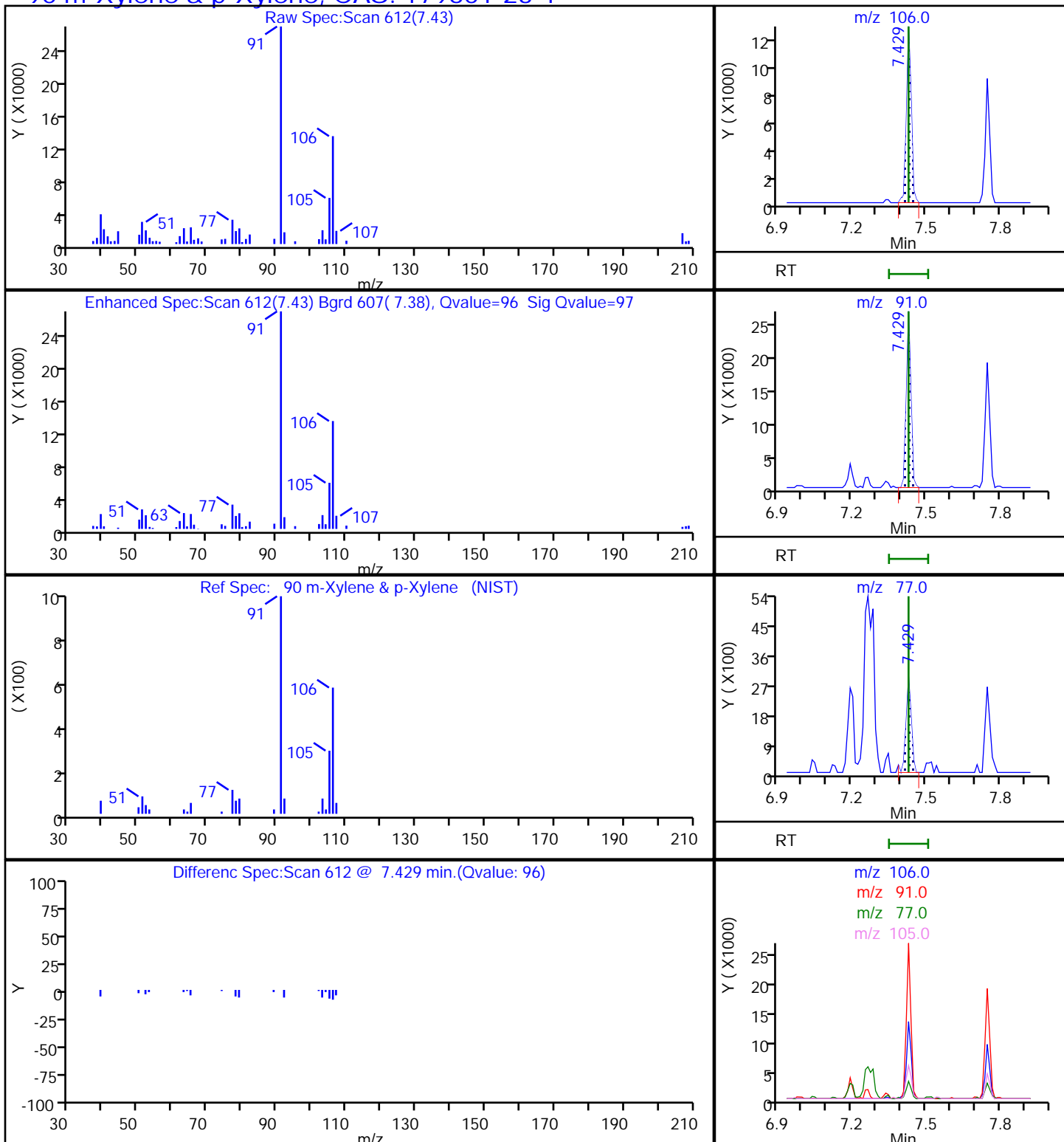
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

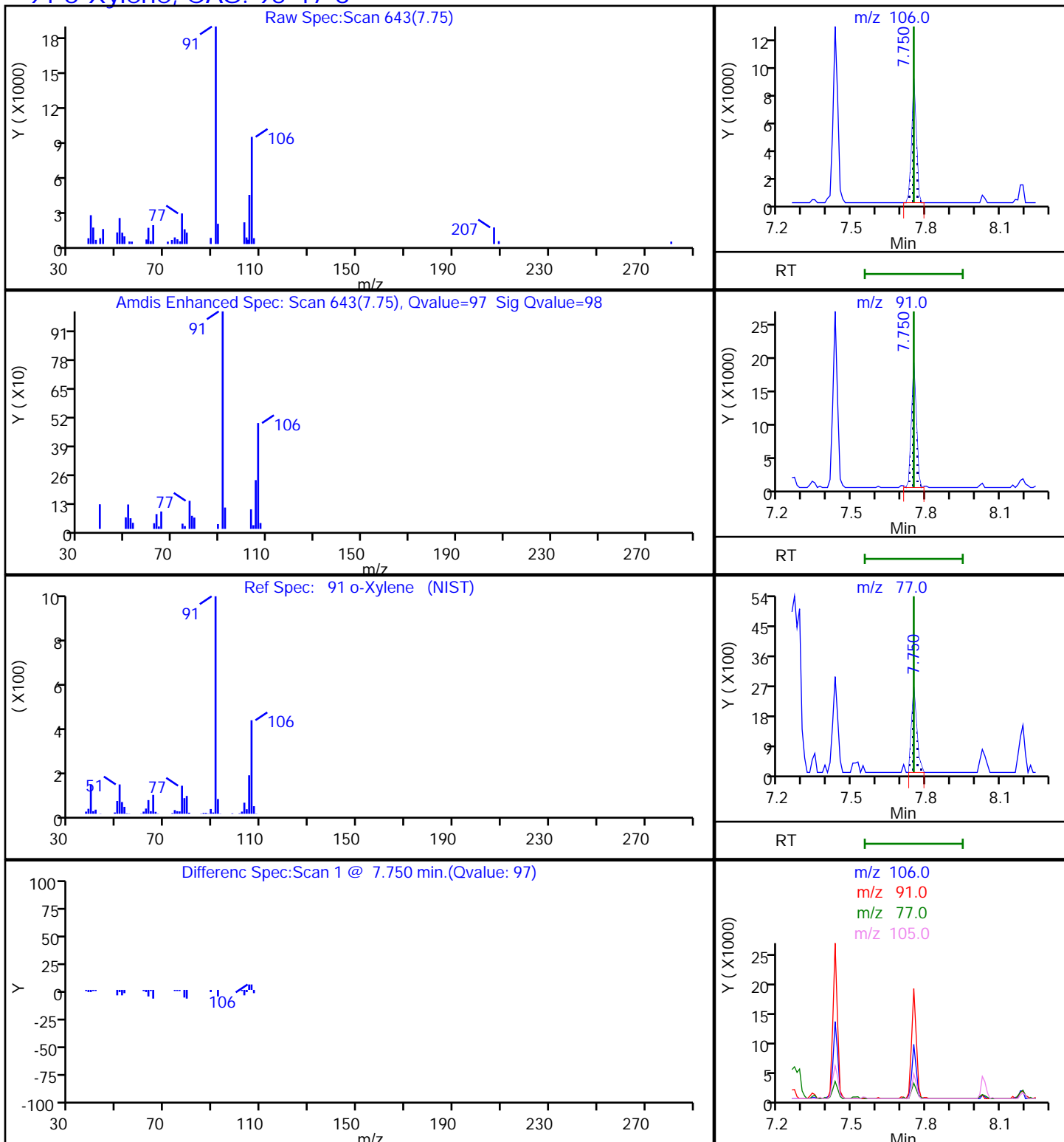
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

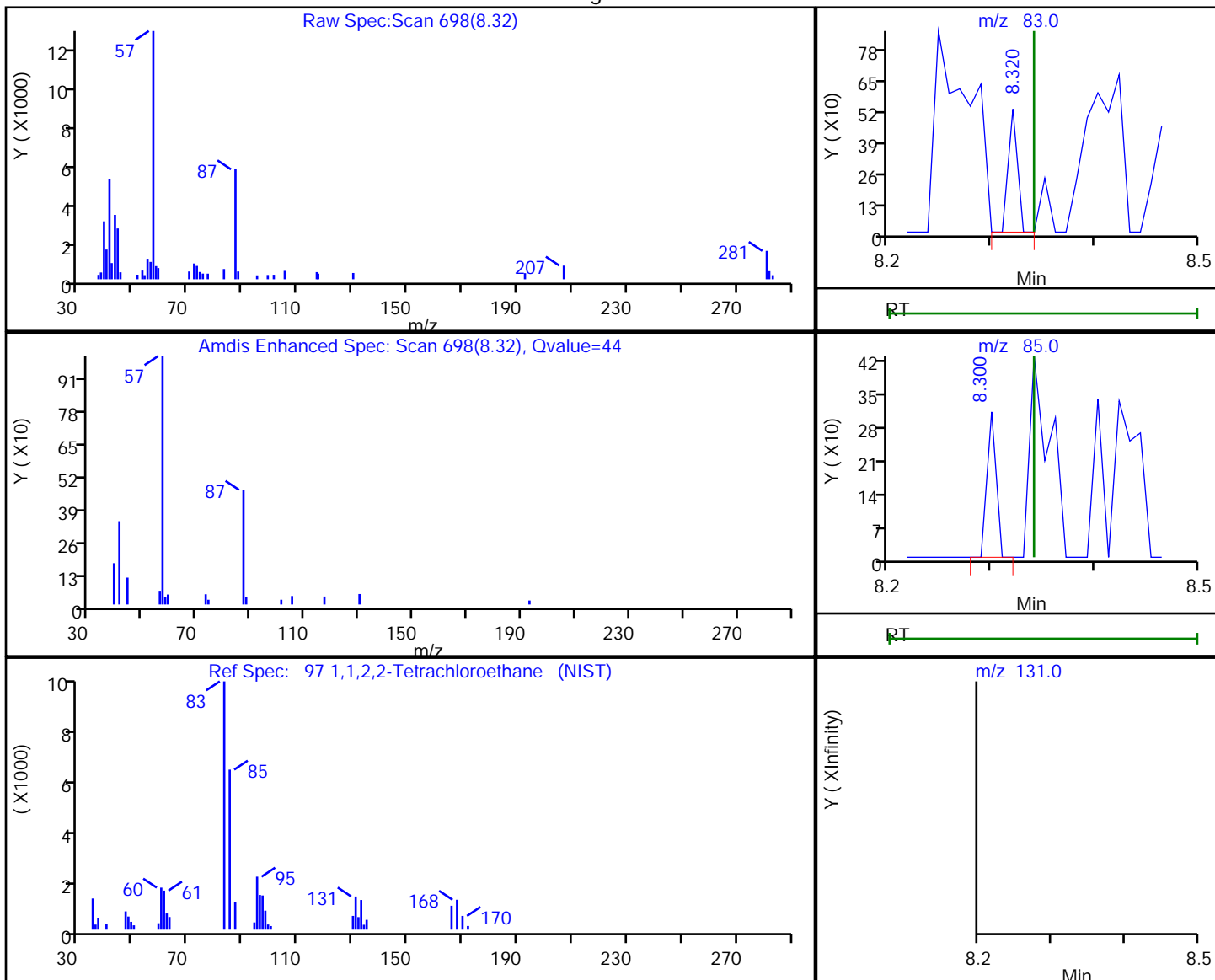
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

97 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
8.32	83.00	325	0.019140
8.30	85.00	190	
8.34	131.00	0	

Reviewer: carrolln, 01-Mar-2019 19:12:45

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

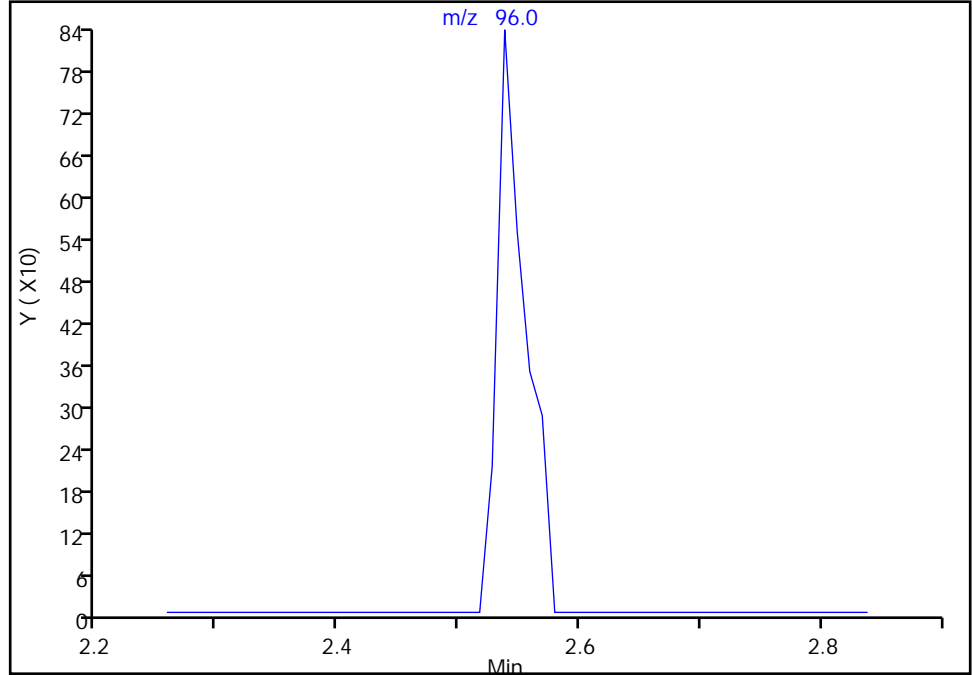
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D				
Injection Date:	01-Mar-2019 18:52:30	Instrument ID:	HP5973C		
Lims ID:	480-149618-A-6	Lab Sample ID:	480-149618-6		
Client ID:	GMX-MW3				
Operator ID:	kn	ALS Bottle#:	23	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

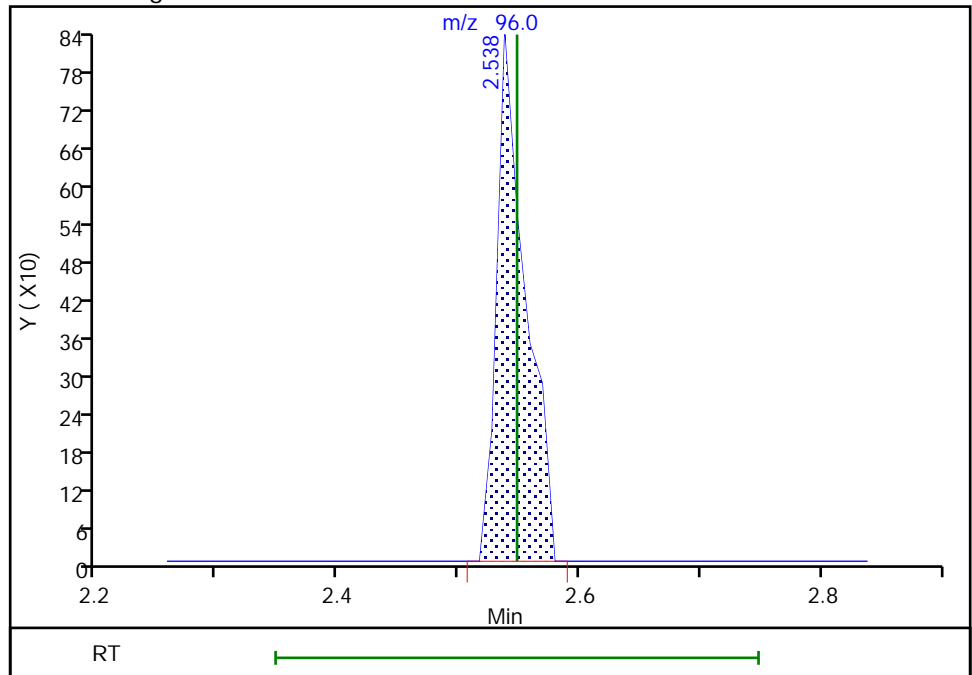
Not Detected
Expected RT: 2.55

Processing Integration Results



RT: 2.54
Area: 1373
Amount: 0.130144
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 01-Mar-2019 19:11:20
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

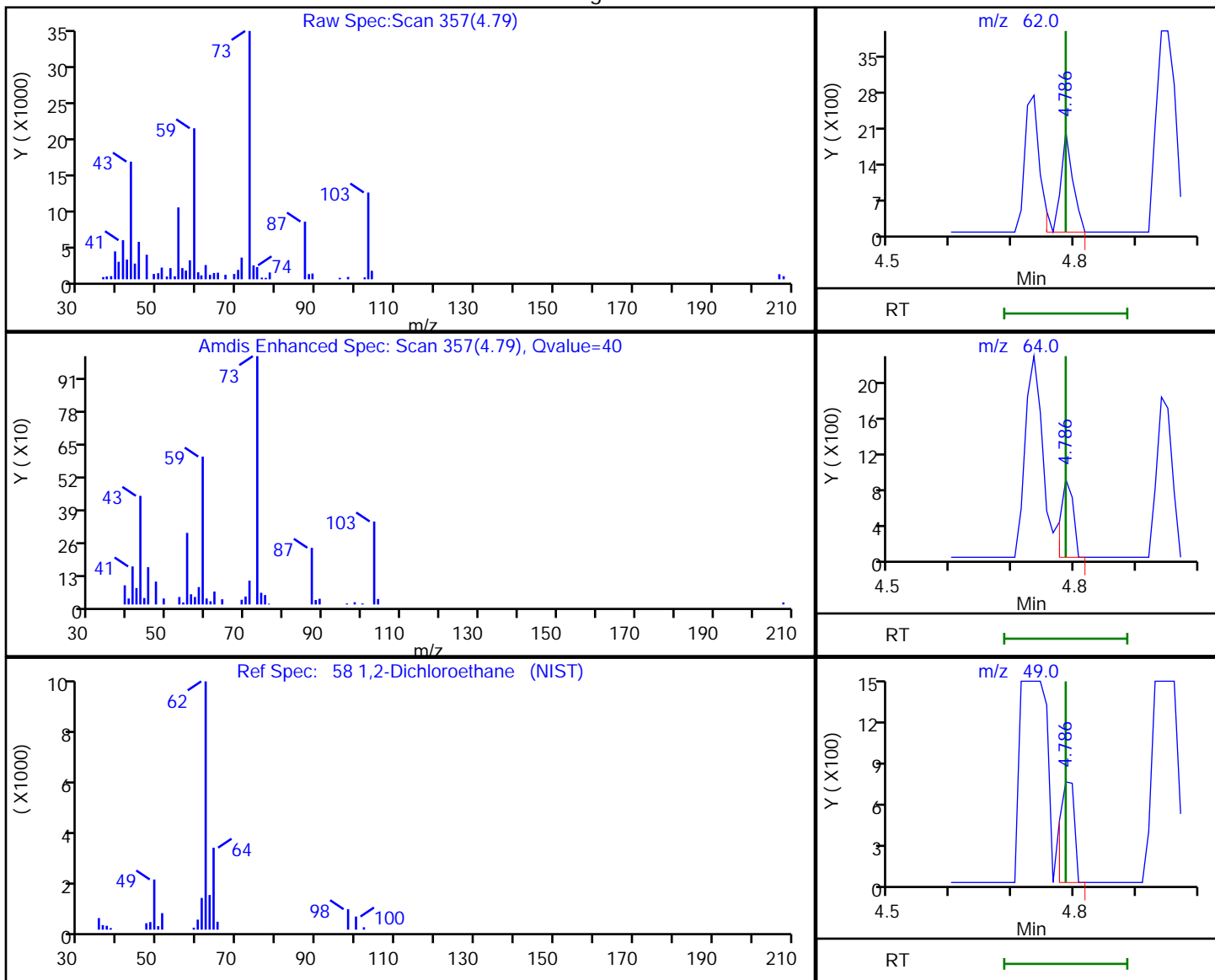
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.79	62.00	2862	0.141335
4.79	64.00	1206	
4.79	49.00	1195	

Reviewer: carrolln, 01-Mar-2019 19:12:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

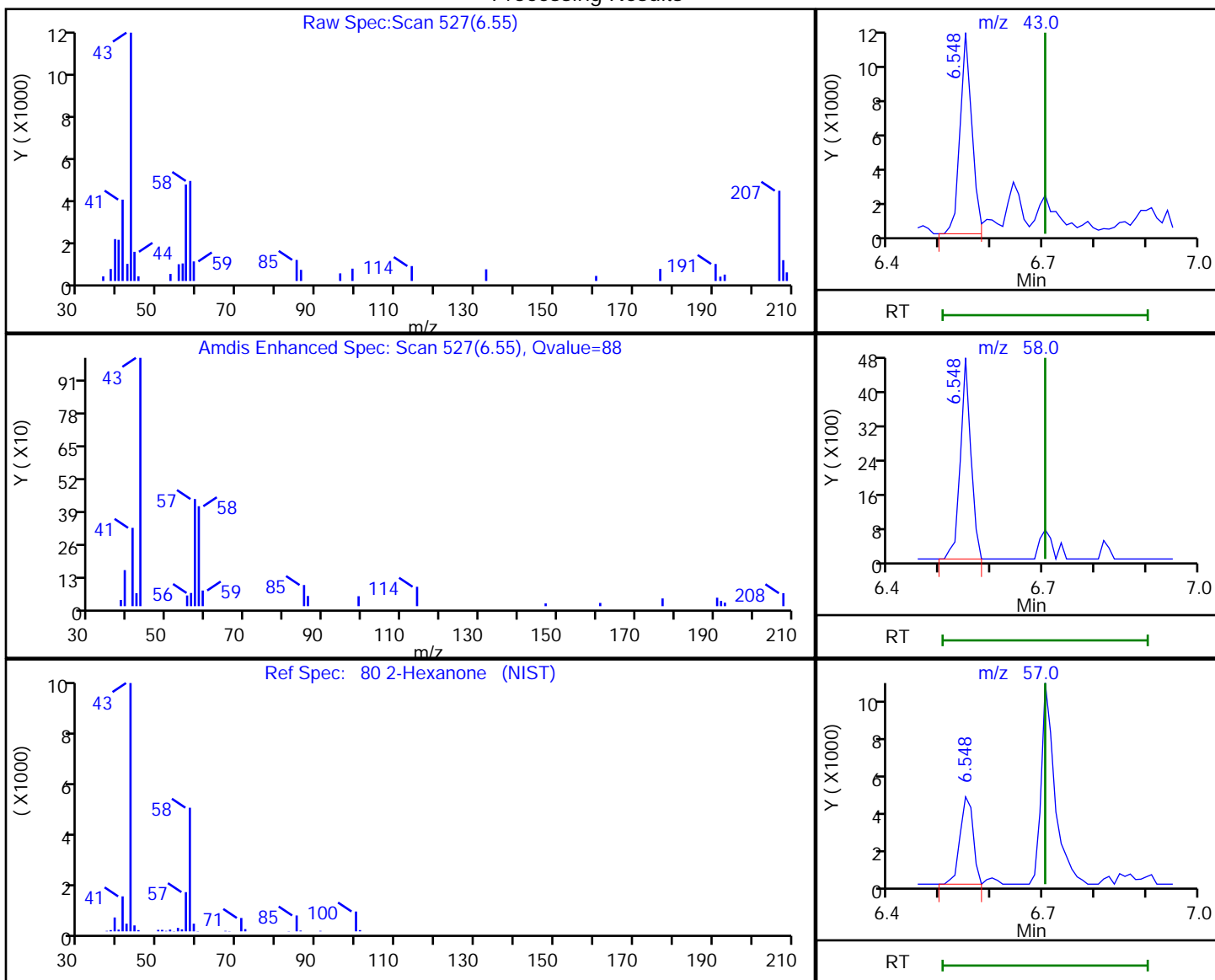
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.55	43.00	18799	1.774641
6.55	58.00	6747	
6.55	57.00	8058	

Reviewer: carrolln, 01-Mar-2019 19:12:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

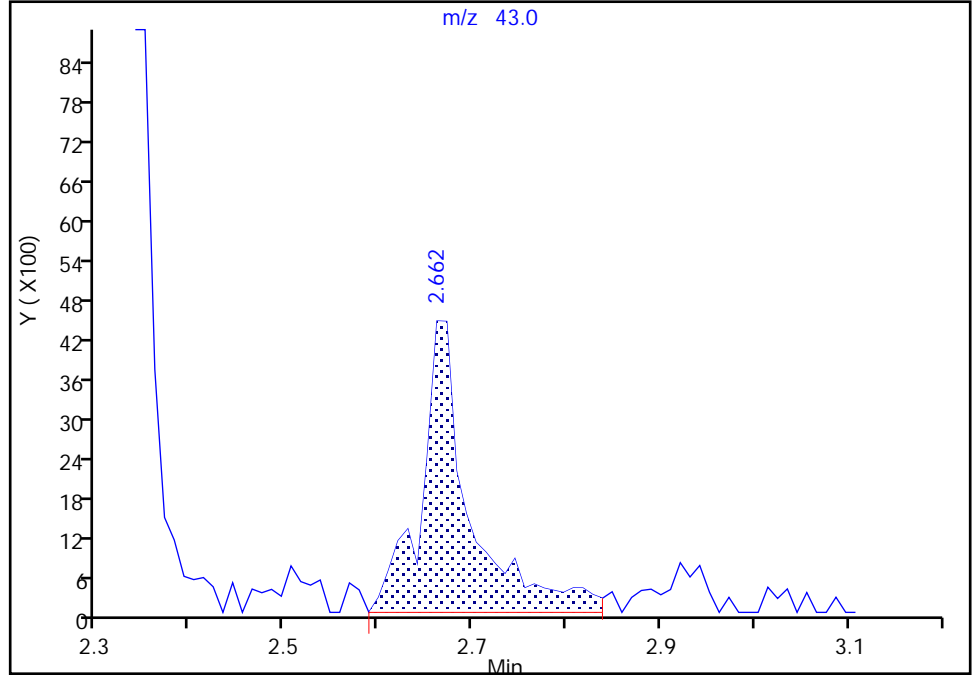
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D
Injection Date: 01-Mar-2019 18:52:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-6 Lab Sample ID: 480-149618-6
Client ID: GMX-MW3
Operator ID: kn ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

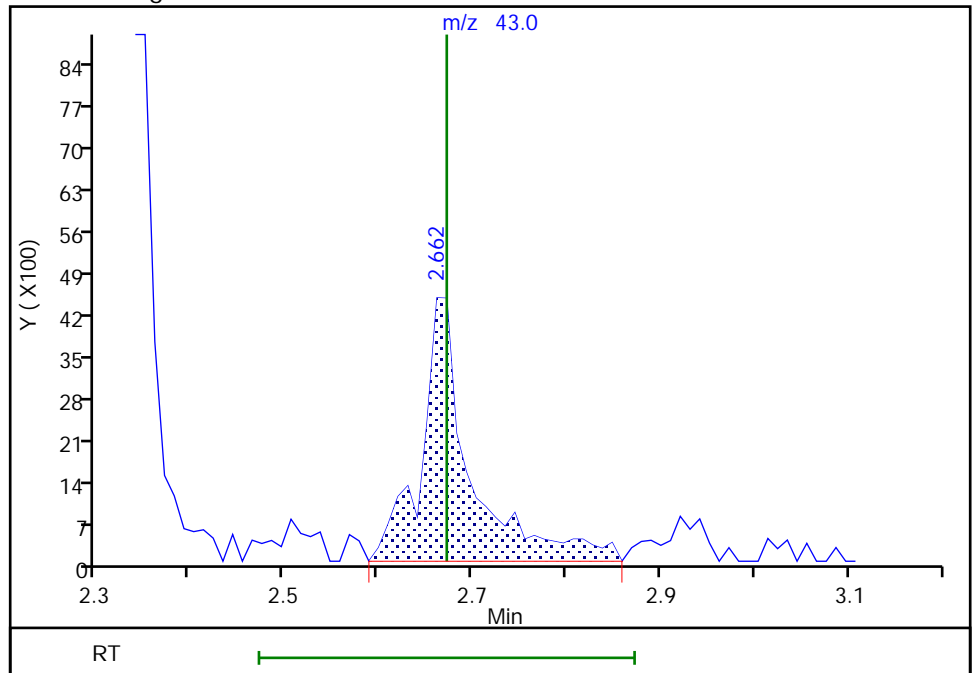
RT: 2.66
Area: 16086
Amount: 2.982504
Amount Units: ug/L

Processing Integration Results



RT: 2.66
Area: 16280
Amount: 3.018474
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 01-Mar-2019 19:11:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

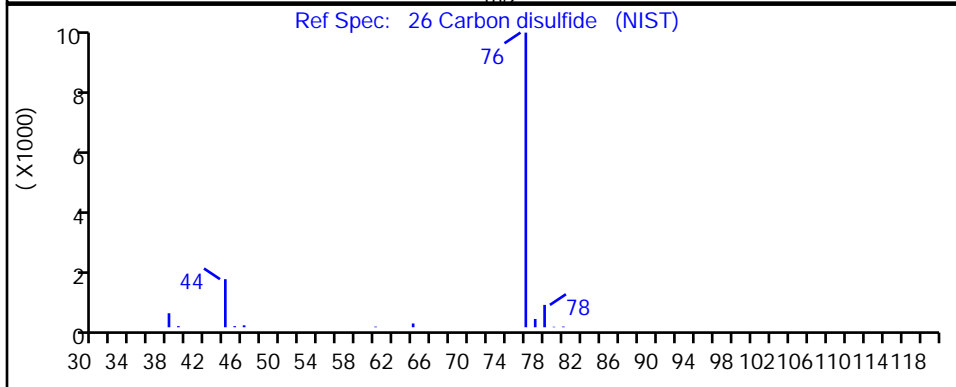
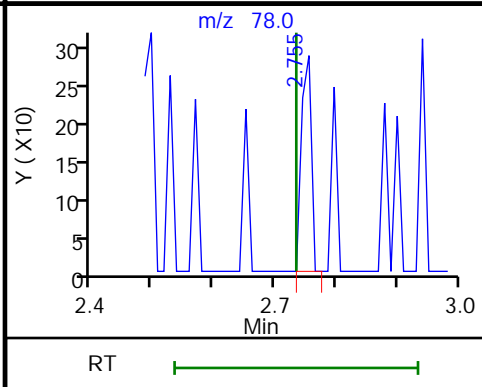
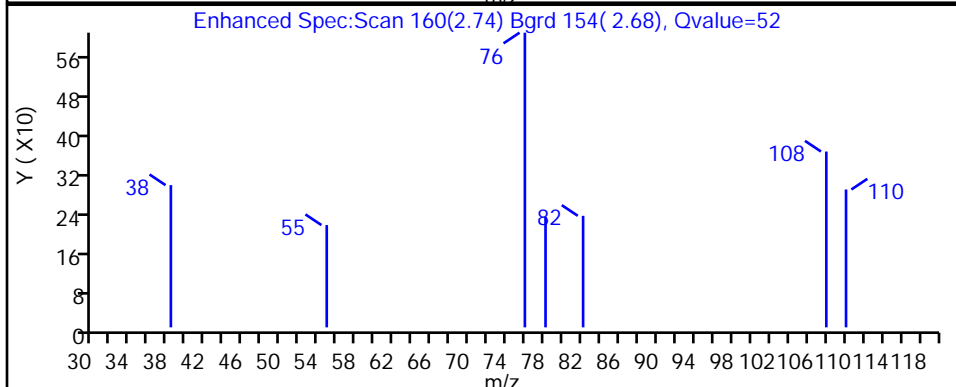
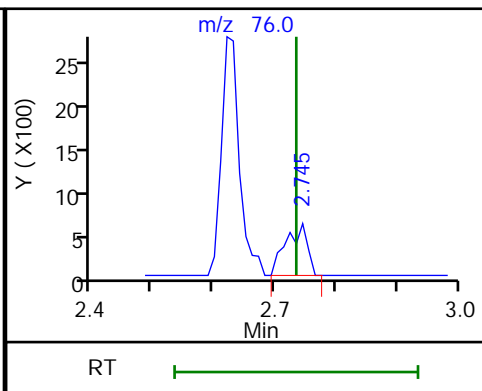
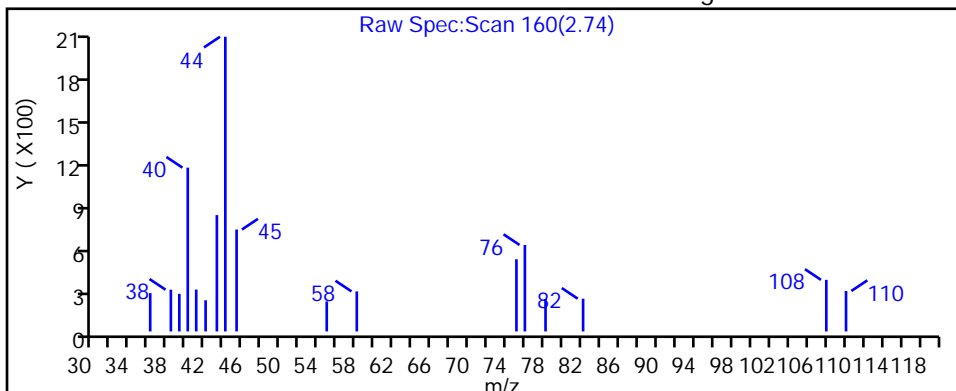
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.74	76.00	1466	0.041901
2.76	78.00	316	

Reviewer: carrolln, 01-Mar-2019 19:11:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

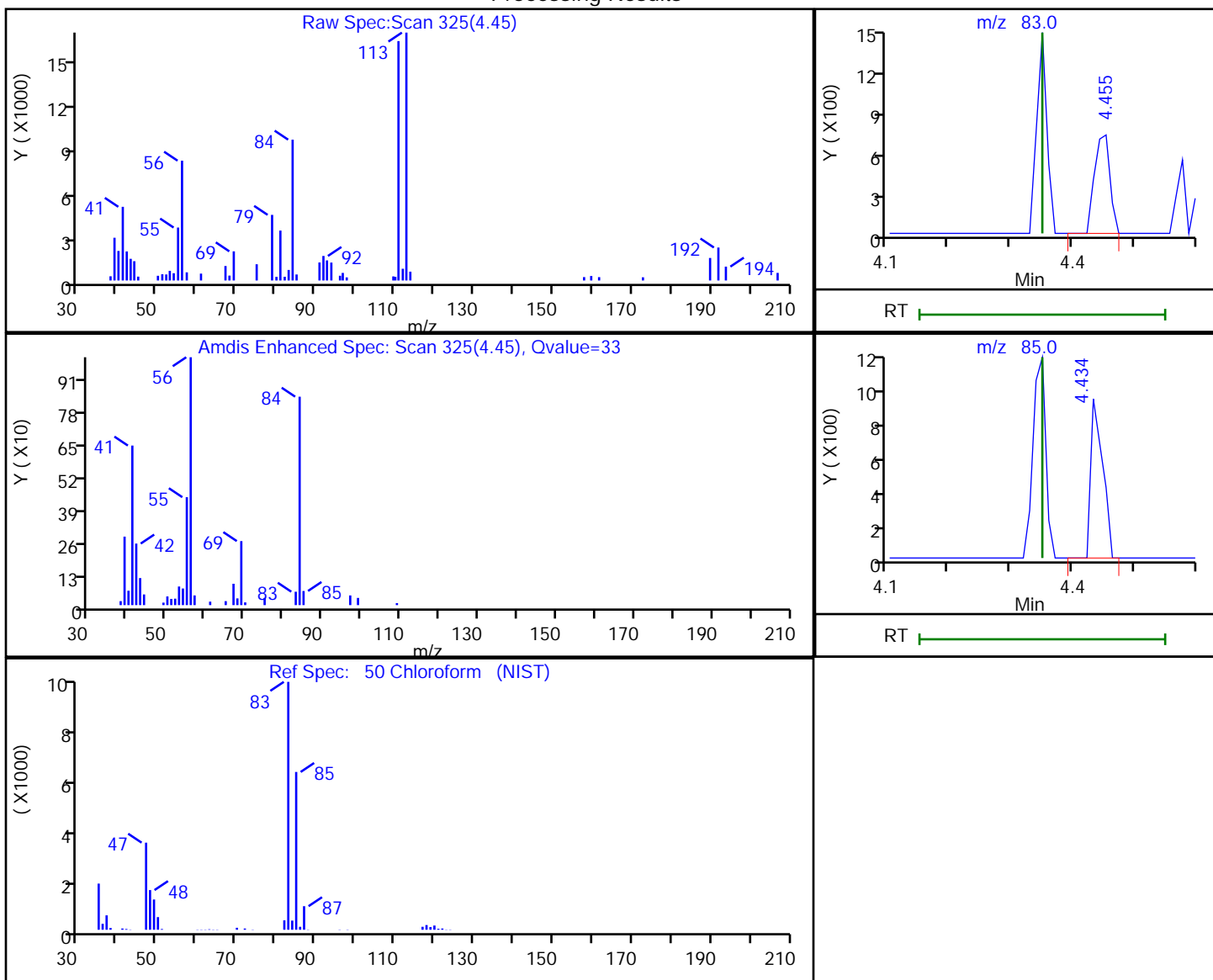
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
4.45	83.00	1201	0.051261
4.43	85.00	1187	

Reviewer: carrolln, 01-Mar-2019 19:11:58

Audit Action: Marked Compound Undetected

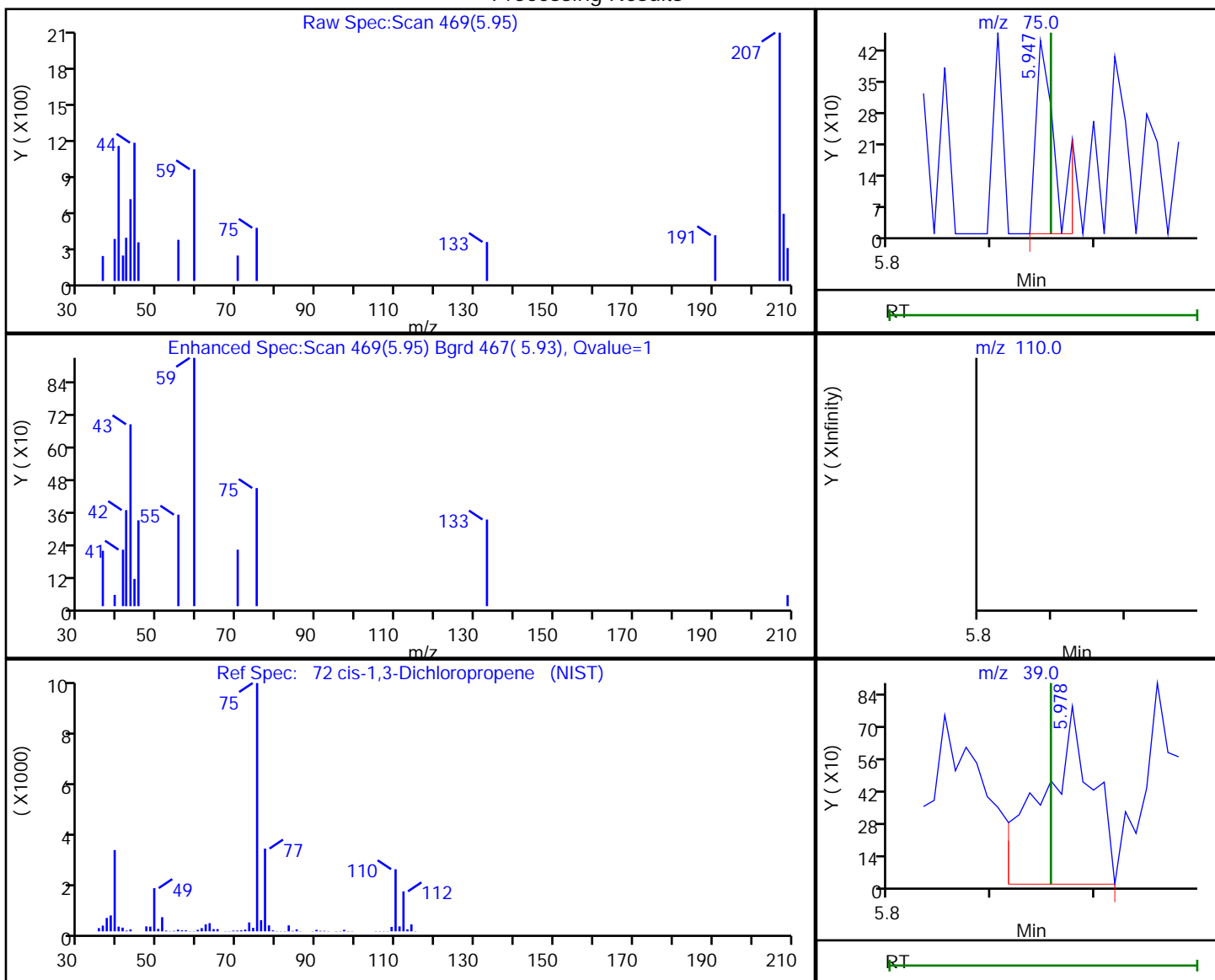
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D
 Injection Date: 01-Mar-2019 18:52:30 Instrument ID: HP5973C
 Lims ID: 480-149618-A-6 Lab Sample ID: 480-149618-6
 Client ID: GMX-MW3
 Operator ID: kn ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
5.95	75.00	586	0.036326
5.98	39.00	2650	
5.96	110.00	0	

Reviewer: carrolln, 01-Mar-2019 19:12:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

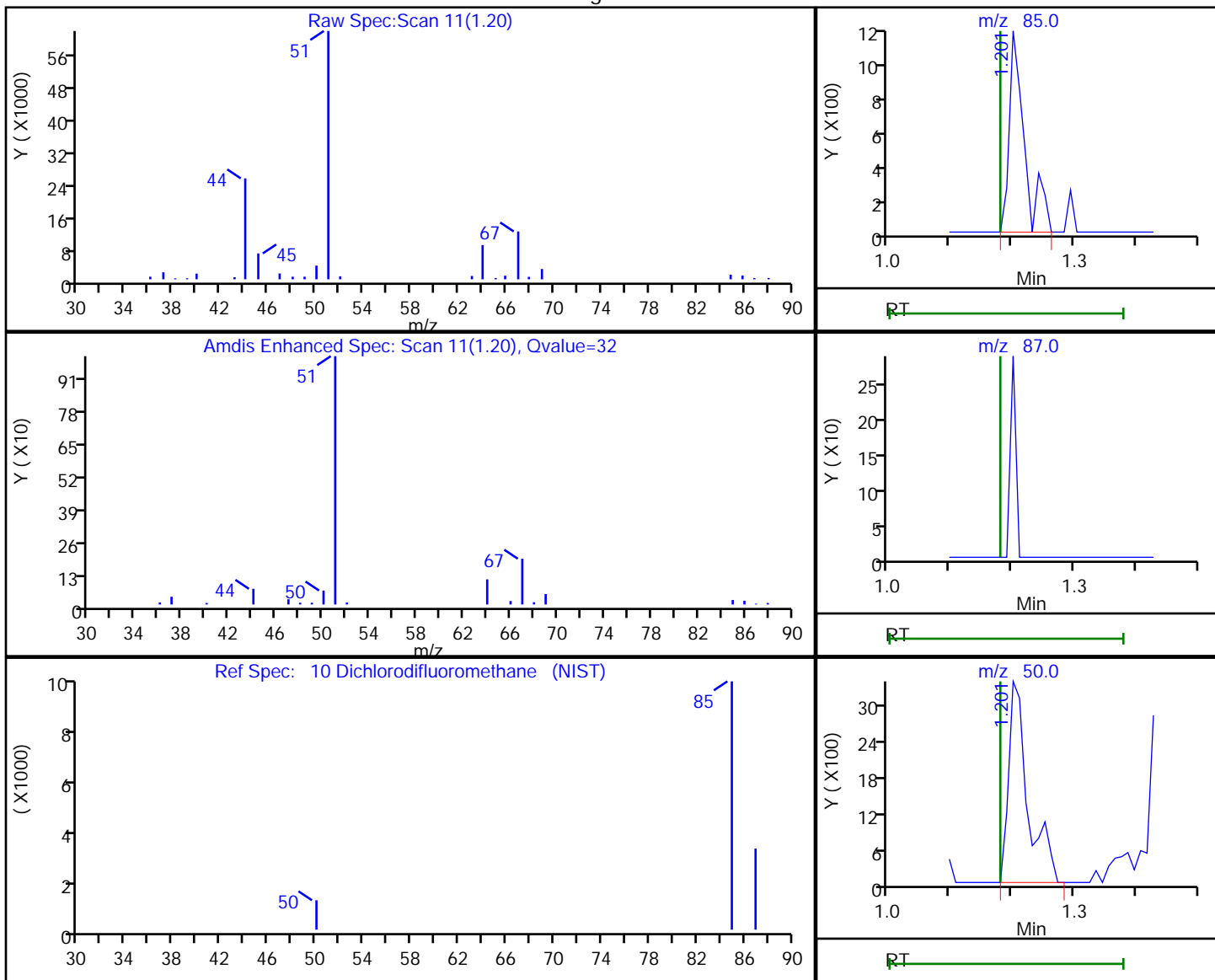
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.20	85.00	1955	0.141144
1.20	50.00	7386	
1.18	87.00	0	

Reviewer: carrolln, 01-Mar-2019 19:11:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

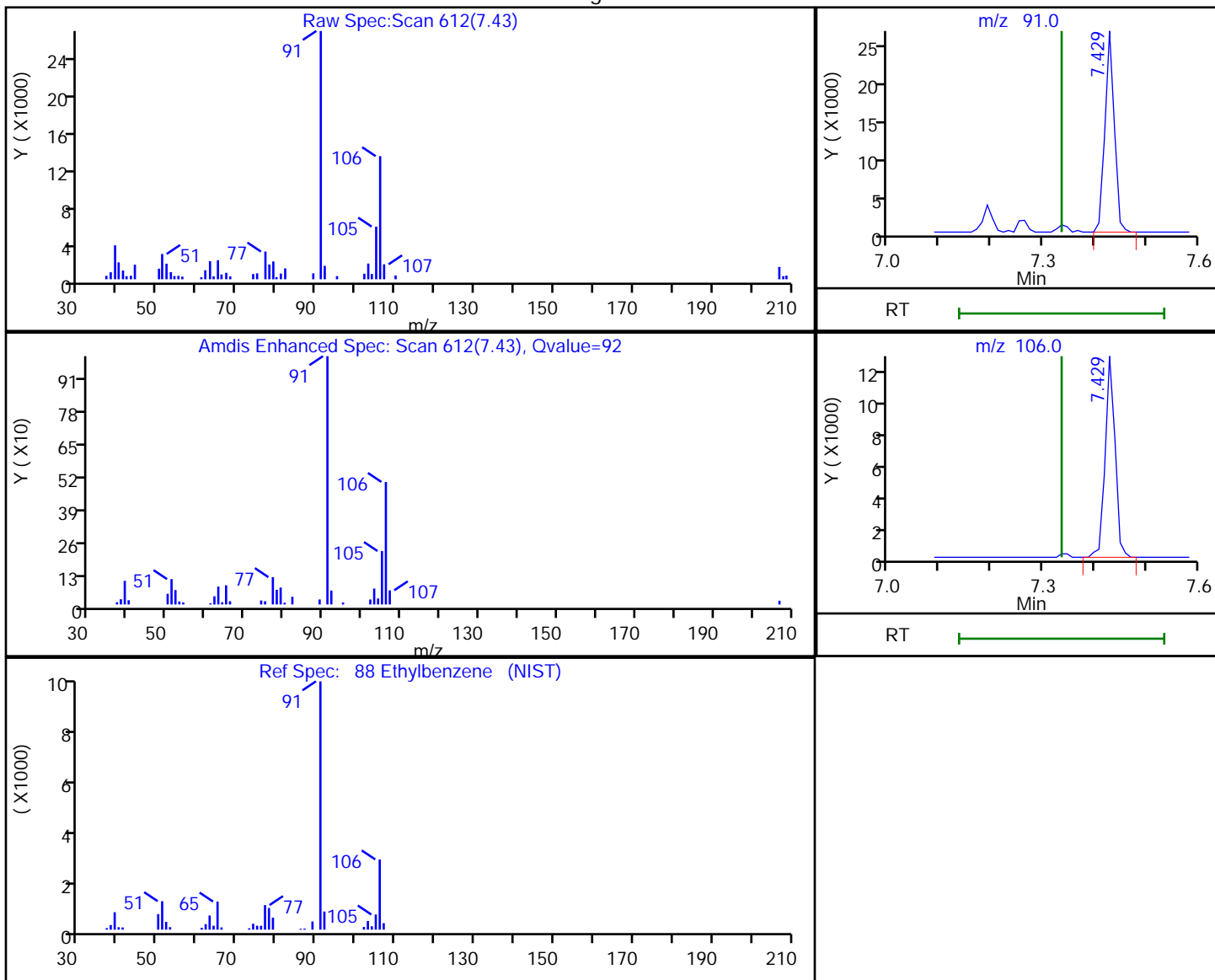
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
7.43	91.00	33291	0.548838
7.43	106.00	17392	

Reviewer: carrolln, 01-Mar-2019 19:12:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

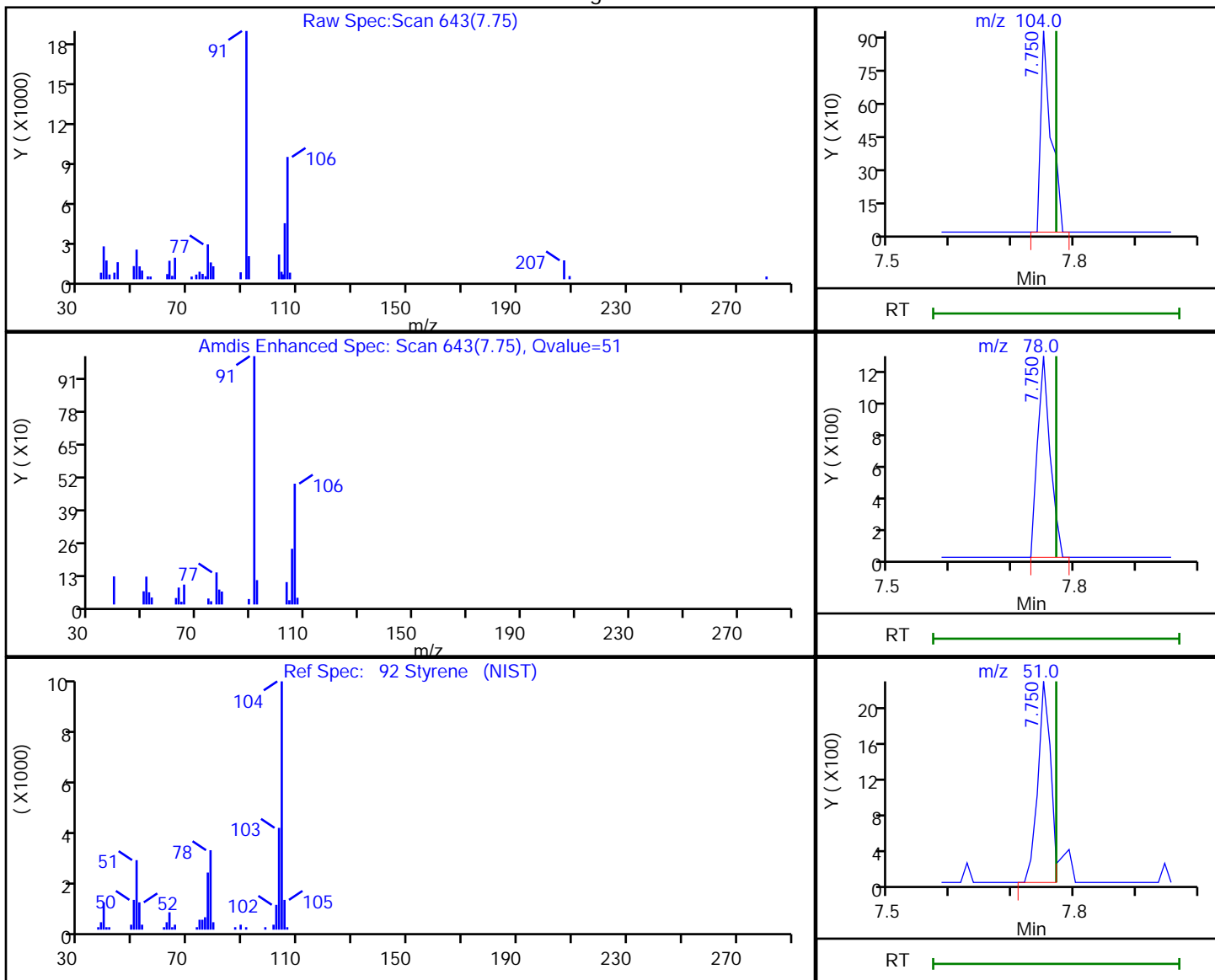
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.75	104.00	1070	0.028184
7.75	78.00	1780	
7.75	51.00	3206	

Reviewer: carrolln, 01-Mar-2019 19:12:39

Audit Action: Marked Compound Undetected

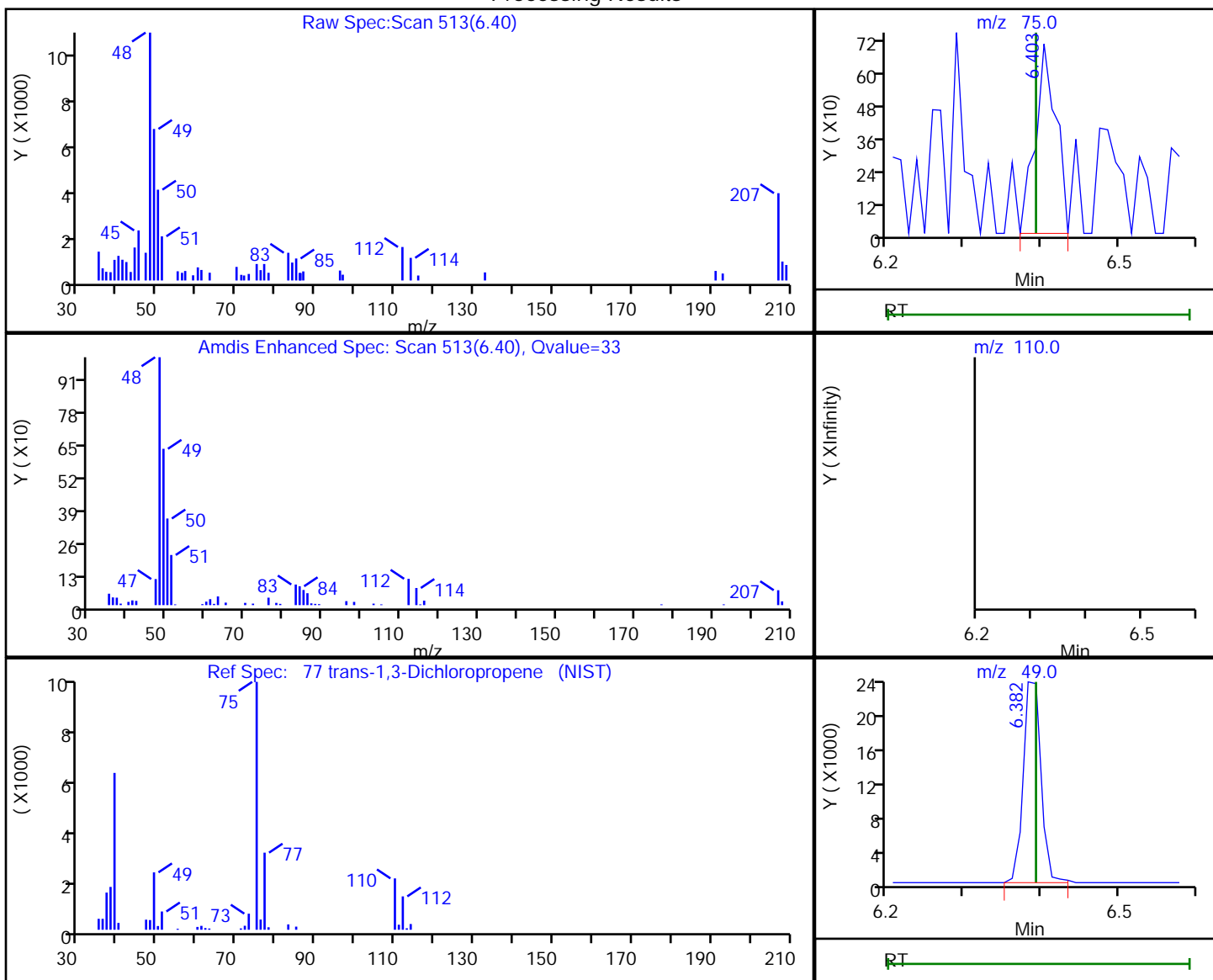
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D
 Injection Date: 01-Mar-2019 18:52:30 Instrument ID: HP5973C
 Lims ID: 480-149618-A-6 Lab Sample ID: 480-149618-6
 Client ID: GMX-MW3
 Operator ID: kn ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
6.40	75.00	1318	0.084765
6.38	49.00	37370	
6.39	110.00	0	

Reviewer: carrolln, 01-Mar-2019 19:12:23

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

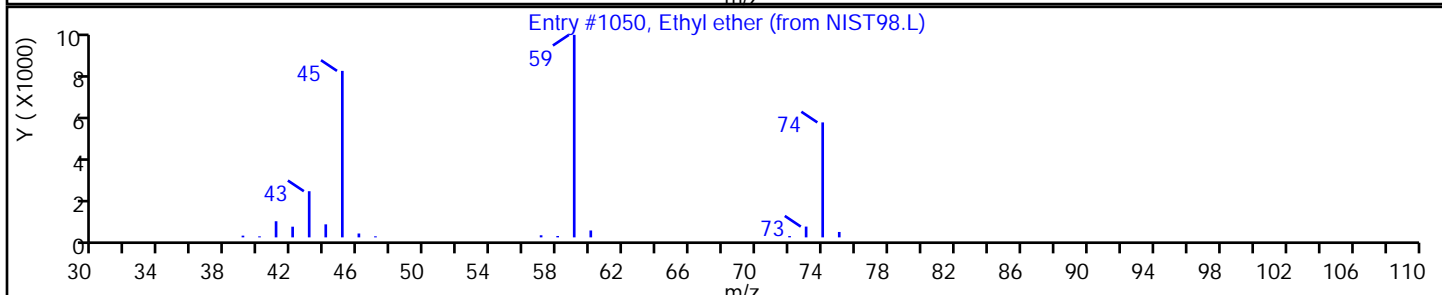
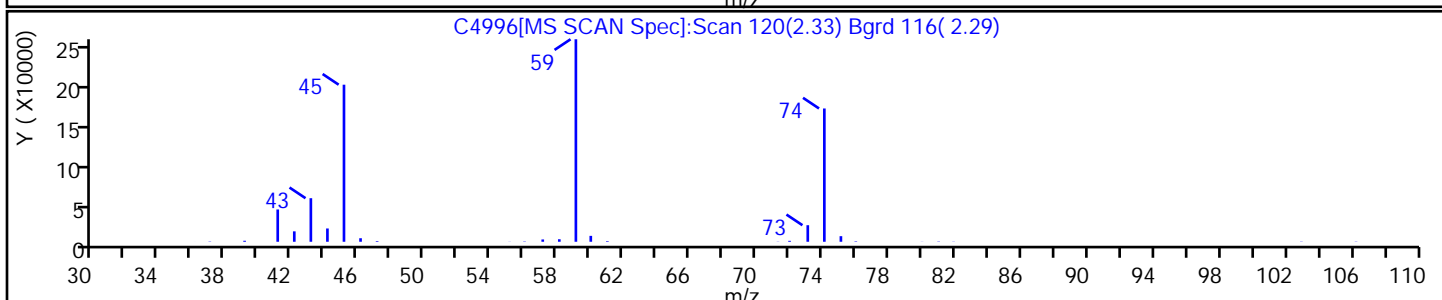
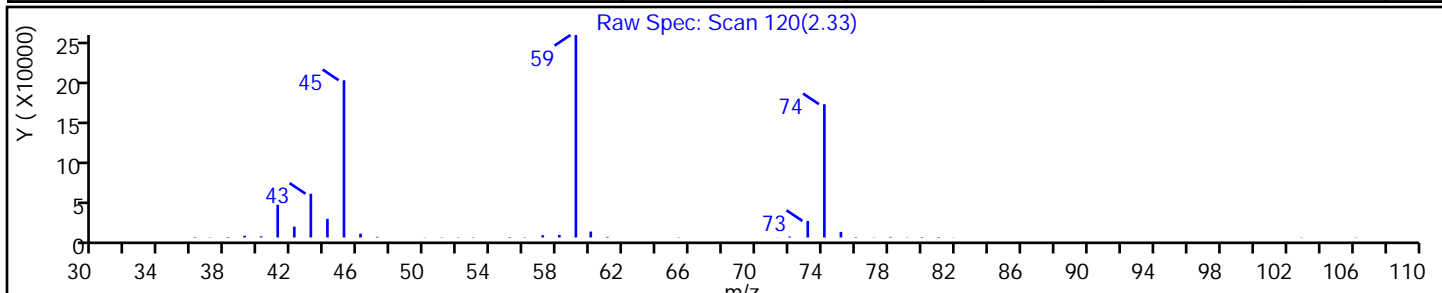
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethyl ether	60-29-7	NIST98.L	1050	C4H10O	74	90



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4996.D

Injection Date: 01-Mar-2019 18:52:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: kn

ALS Bottle#: 23

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

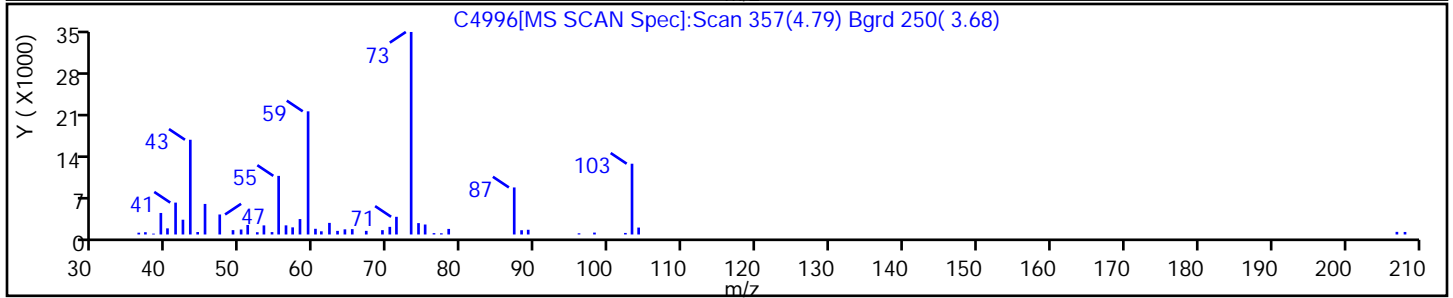
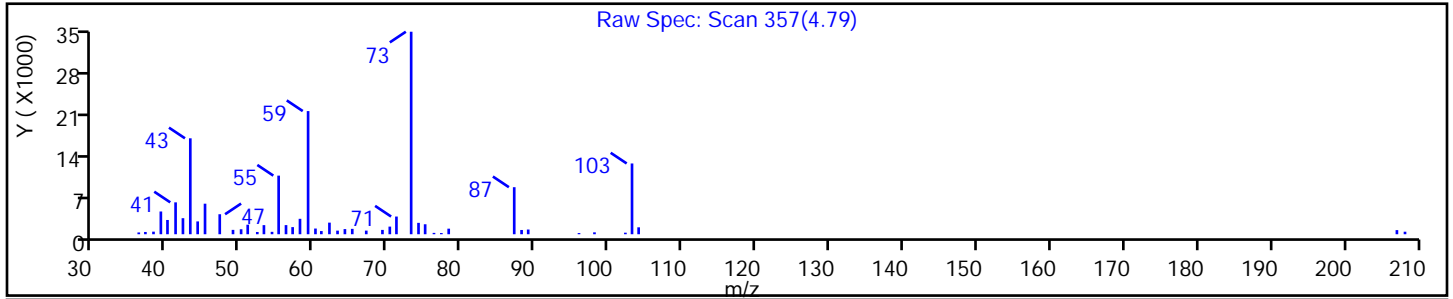
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 DL Lab Sample ID: 480-149618-6 DL
 Matrix: Water Lab File ID: C5017.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:48
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND	*	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	12		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND	*	5.0	1.6
75-00-3	Chloroethane	76		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	220		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	1.3	J	5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 DL Lab Sample ID: 480-149618-6 DL
 Matrix: Water Lab File ID: C5017.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:48
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	54		5.0	0.80
108-87-2	Methylcyclohexane	1.6	J	5.0	0.80
75-09-2	Methylene Chloride	4.5	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	3.1	J	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	150		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 DL Lab Sample ID: 480-149618-6 DL
 Matrix: Water Lab File ID: C5017.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:48
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
 Lims ID: 480-149618-B-6
 Client ID: GMX-MW3
 Sample Type: Client
 Inject. Date: 02-Mar-2019 04:48:30 ALS Bottle#: 18 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-B-6
 Misc. Info.: 480-0079070-021
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:09:26 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 13:09:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	209568	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	85	428382	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	95	490665	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	309616	25.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	98	188722	25.7	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	93	1114509	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	96	371760	27.5	
10 Dichlorodifluoromethane	85		1.190				ND	
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.439	0.000	98	444339	30.6	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.823	0.000	99	139806	15.2	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.538				ND	
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43		2.662				ND	
26 Carbon disulfide	76		2.735				ND	Ua
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	96	12473	0.9006	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	408778	10.9	
34 trans-1,2-Dichloroethene	96	3.232	3.232	-0.010	28	3346	0.2547	a
39 1,1-Dichloroethane	63		3.605				ND	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	680543	43.4	
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83	4.341	4.351	-0.010	90	2272	0.0952	
51 1,1,1-Trichloroethane	97		4.444				ND	
52 Cyclohexane	56	4.445	4.444	0.001	89	5149	0.2612	
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78	4.735	4.735	0.000	57	121052	2.47	
58 1,2-Dichloroethane	62	4.787	4.787	0.001	48	1864	0.0904	M
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	84	5471	0.3144	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.061				ND	
74 Toluene	92	6.175	6.186	0.000	97	18943	0.6216	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.590				ND	
80 2-Hexanone	43		6.704				ND	
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112	7.284	7.284	0.000	82	5190	0.1463	a
88 Ethylbenzene	91	7.336	7.336	0.000	44	2484	0.0429	7a
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	93	5703	0.2445	a
91 o-Xylene	106	7.750	7.750	0.000	94	3389	0.1374	a
92 Styrene	104		7.771				ND	Ua
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	31464	0.4687	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	
113 1,4-Dichlorobenzene	146		9.149				ND	Ua
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		0.3819	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Worklist Smp#: 21

Client ID: GMX-MW3

Purge Vol: 5.000 mL

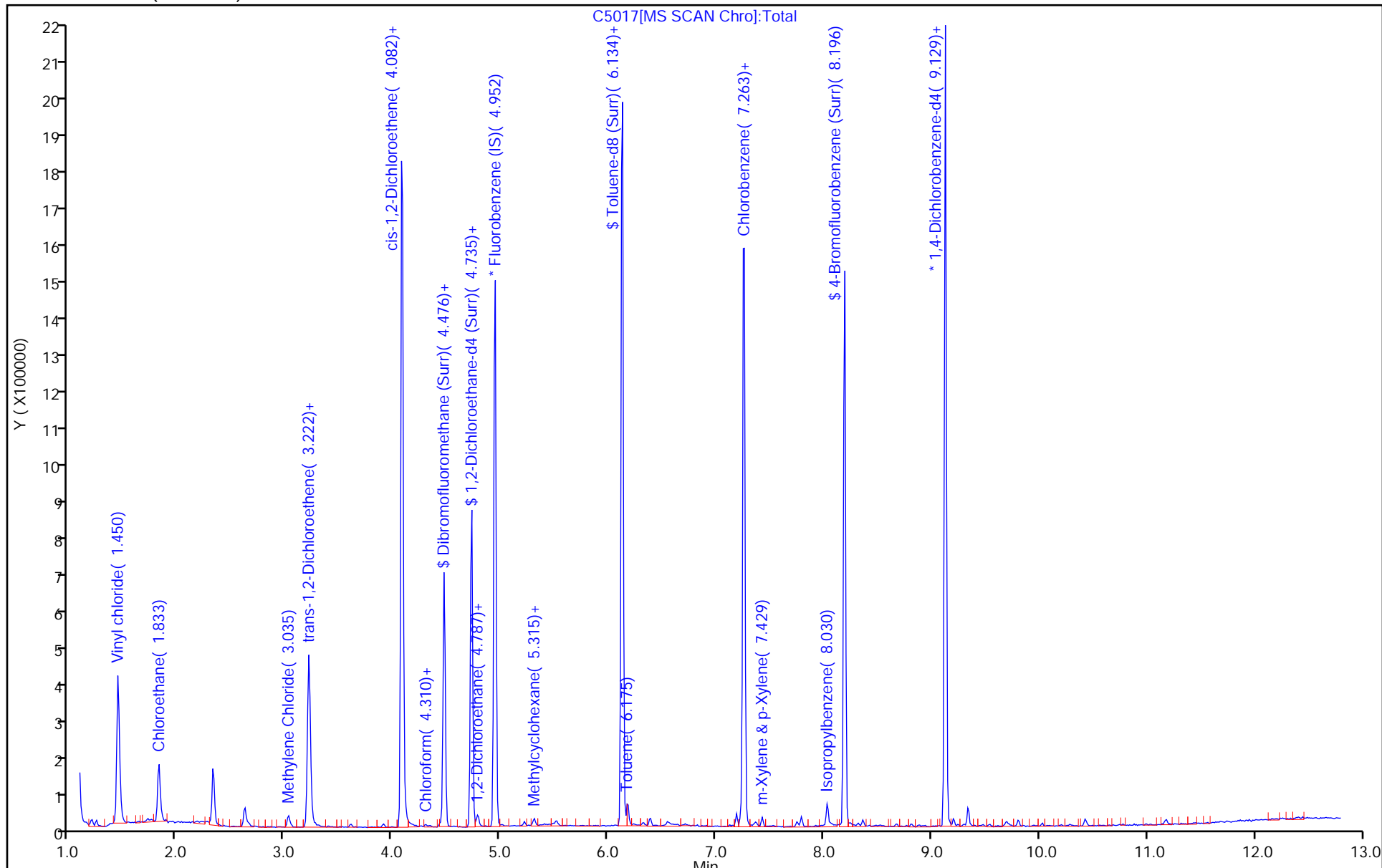
Dil. Factor: 5.0000

ALS Bottle#: 18

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

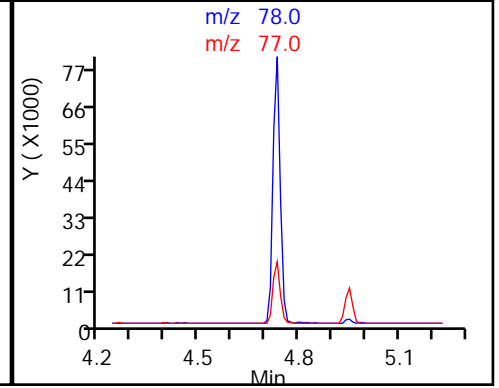
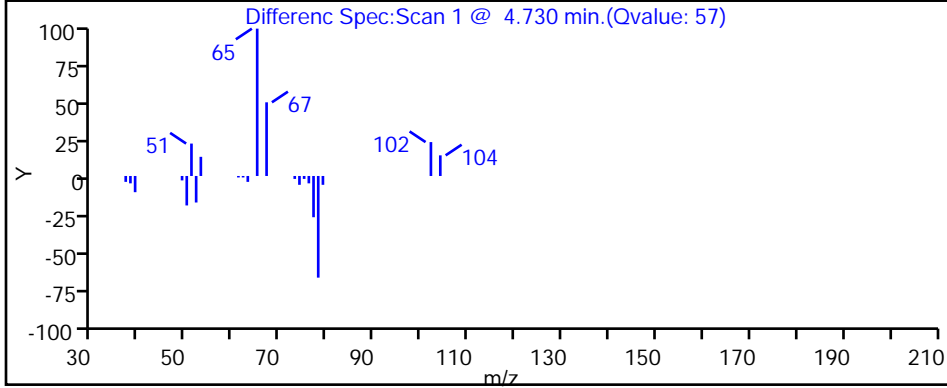
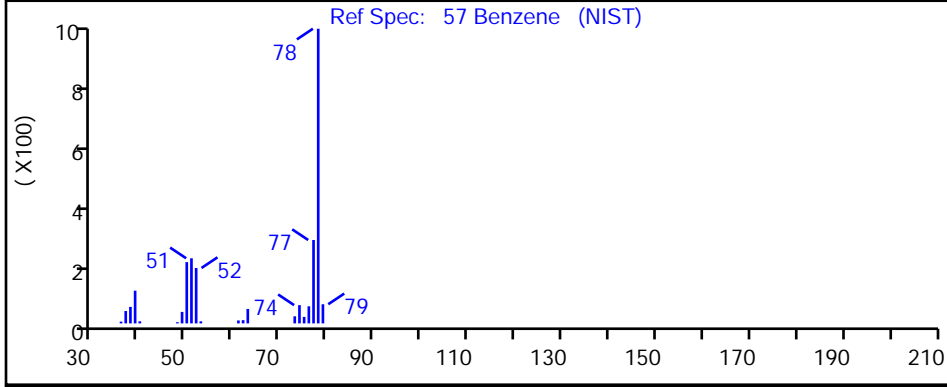
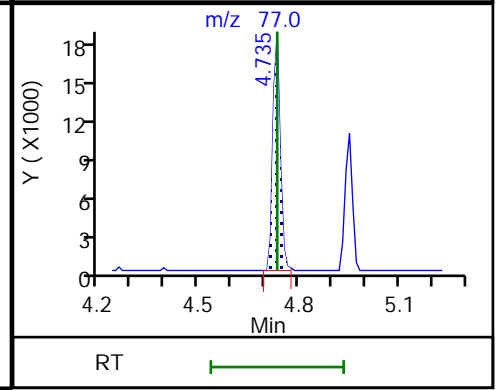
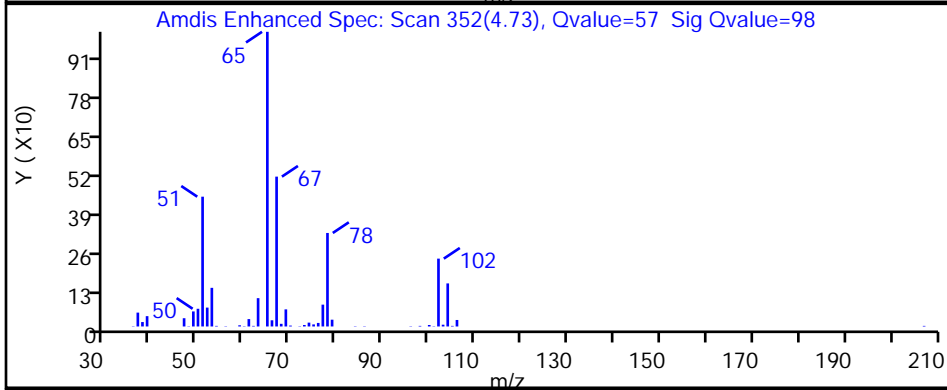
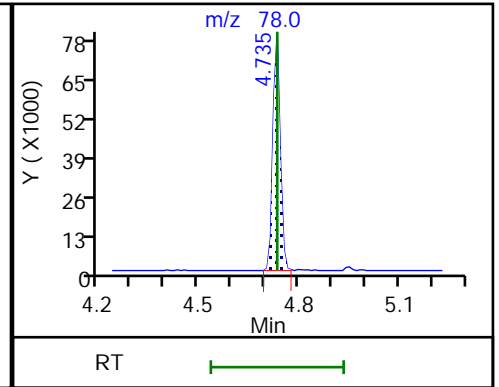
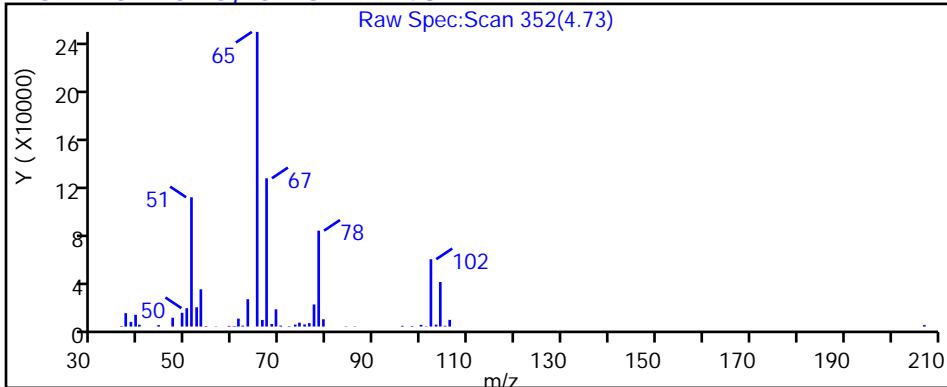
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

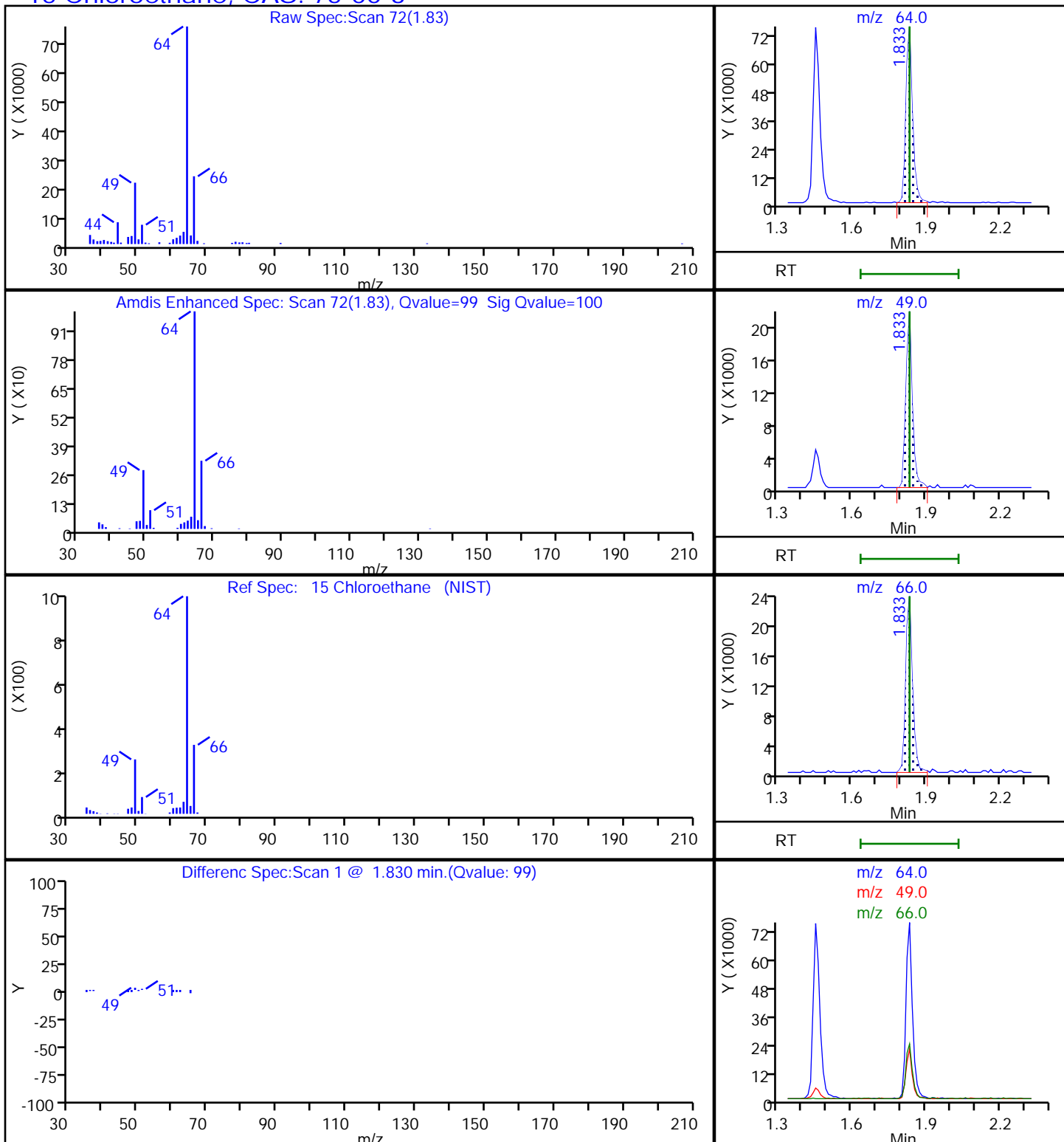
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

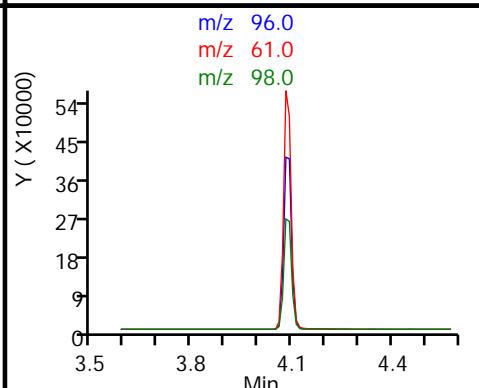
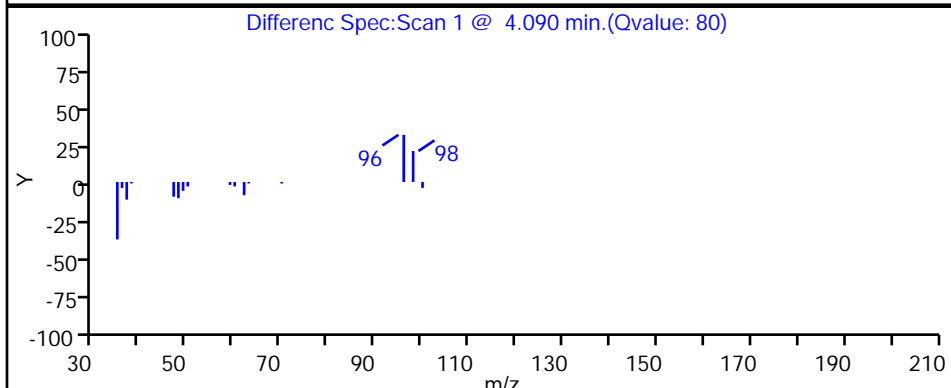
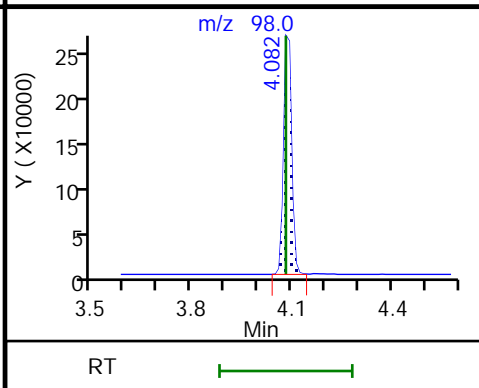
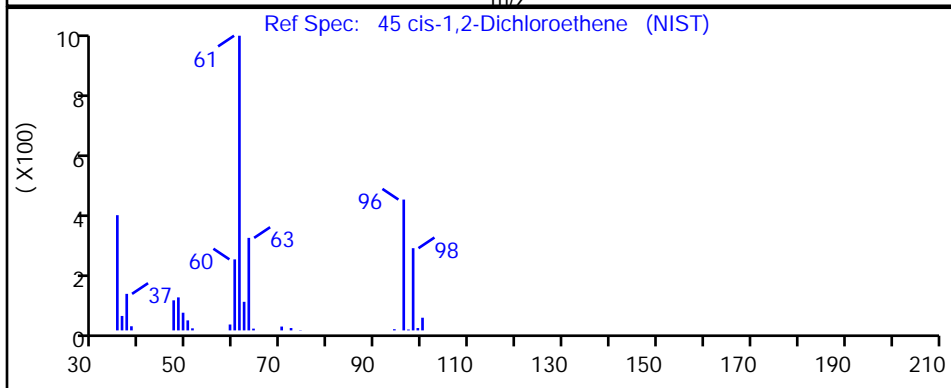
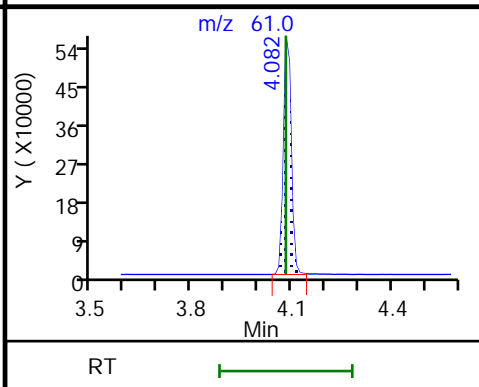
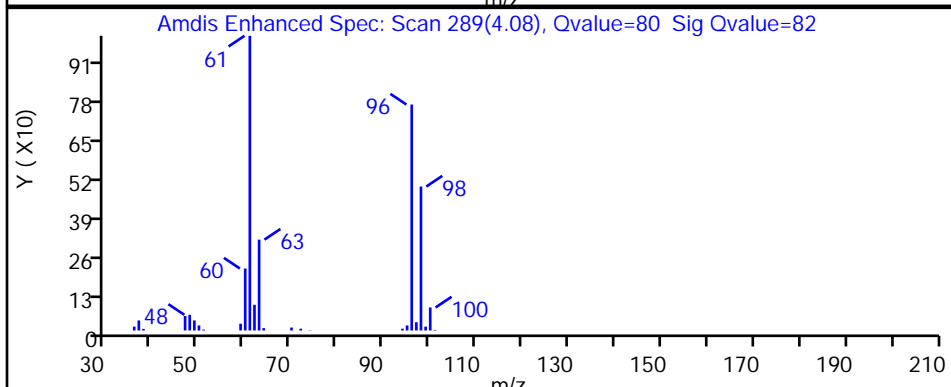
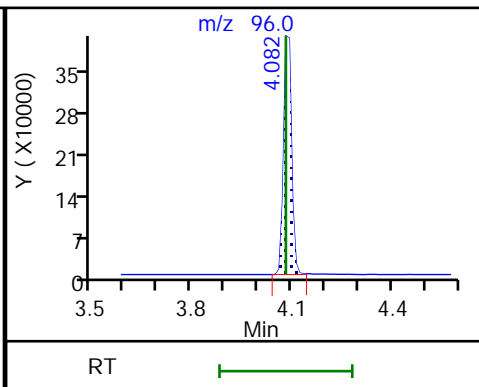
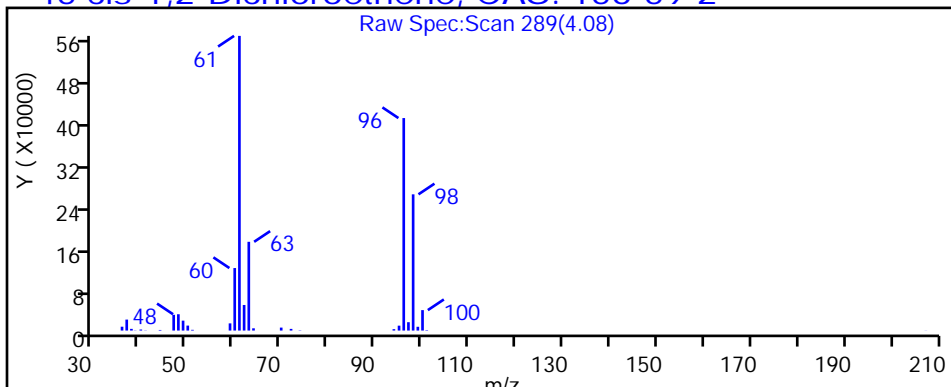
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

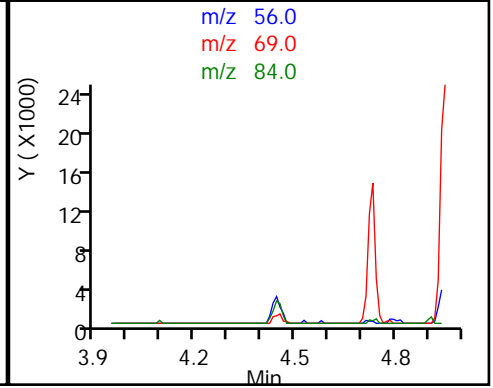
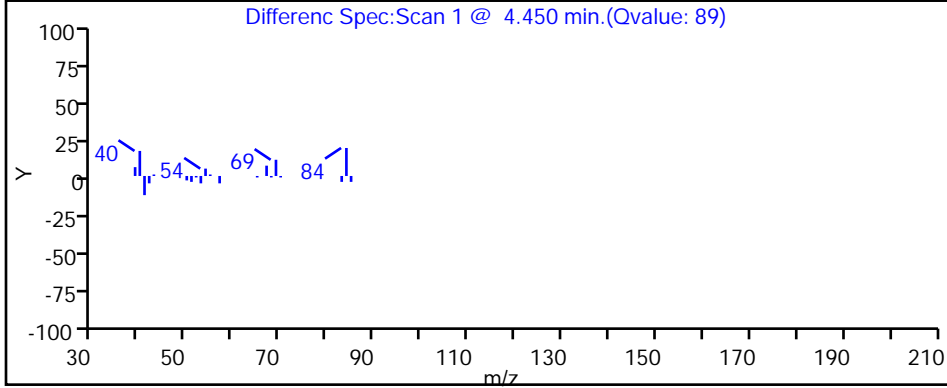
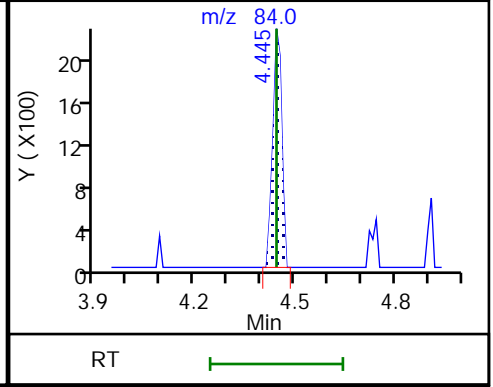
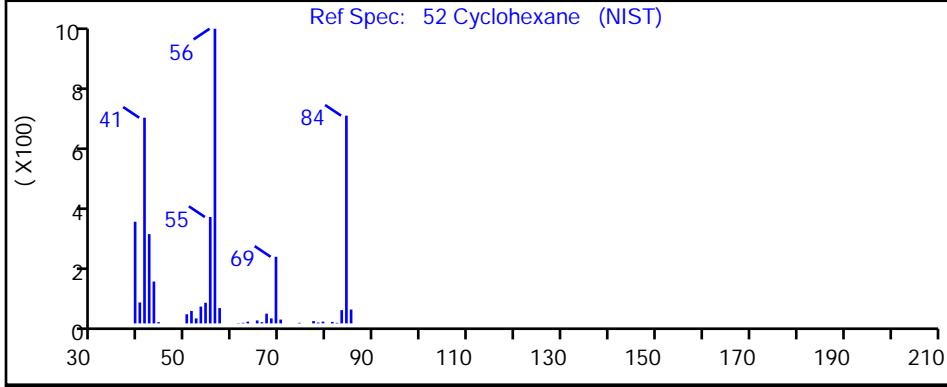
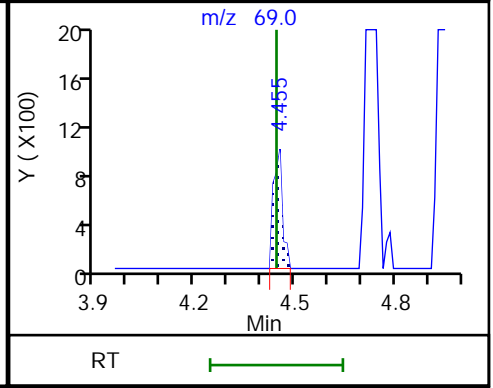
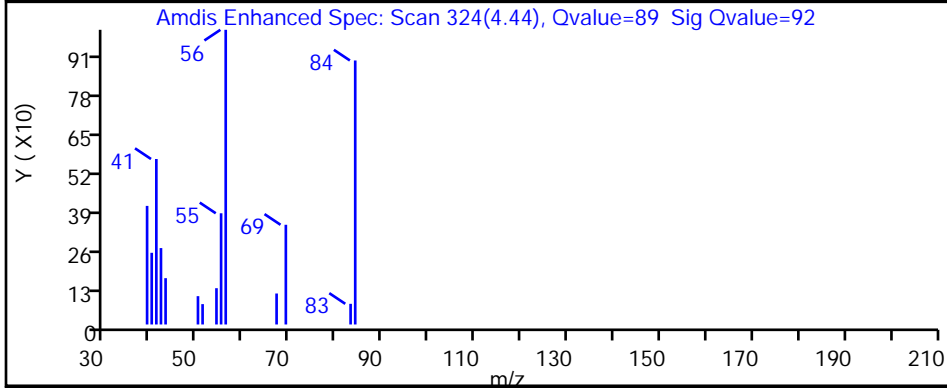
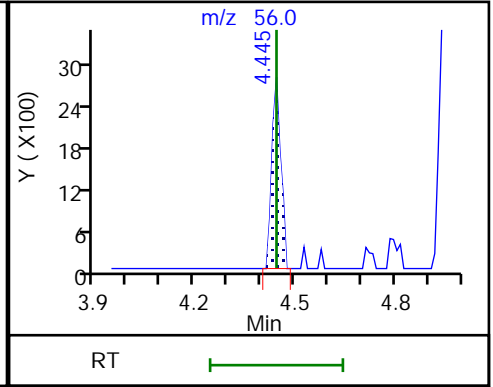
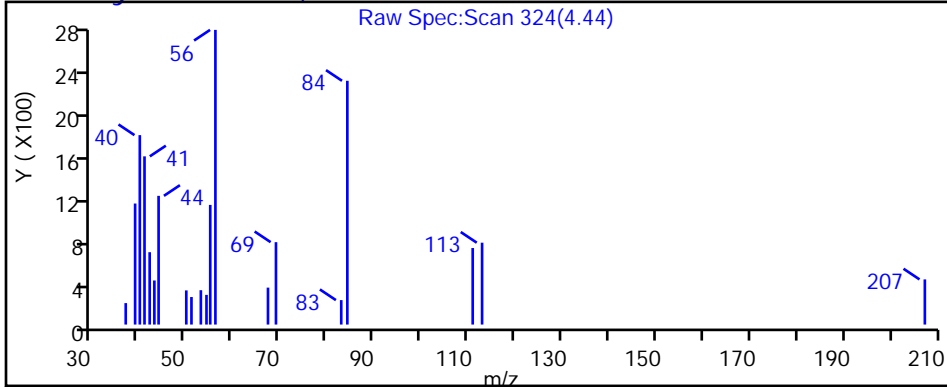
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

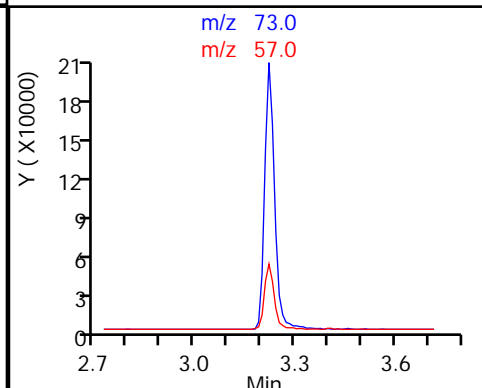
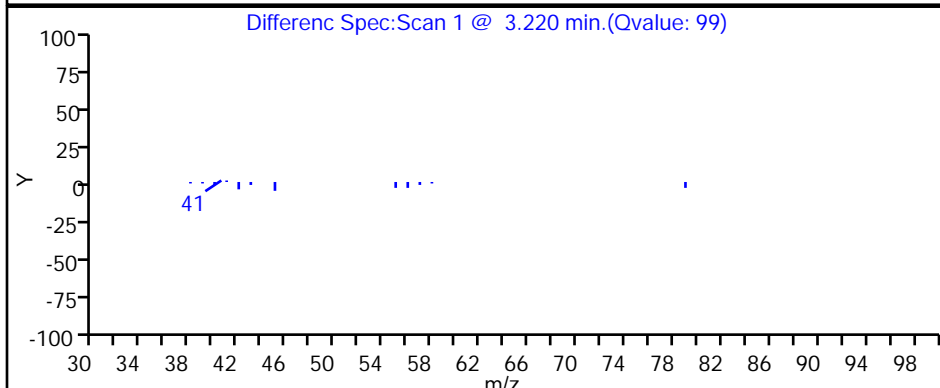
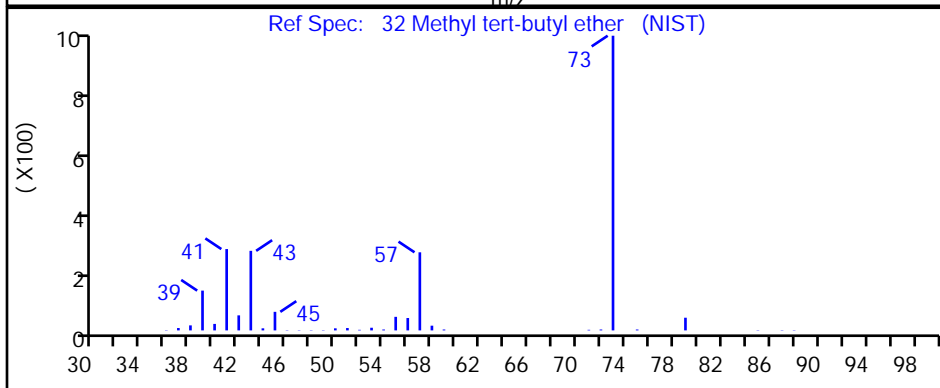
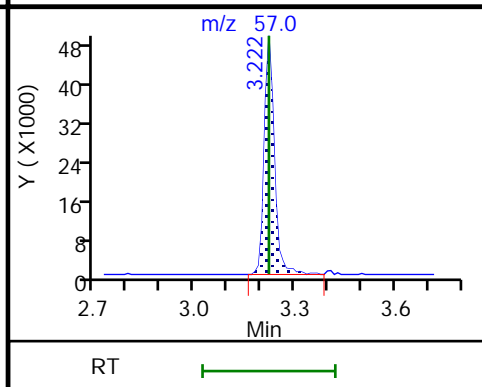
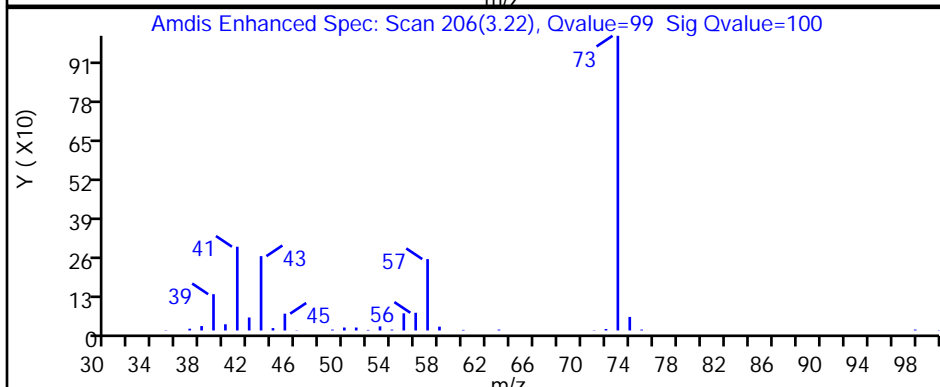
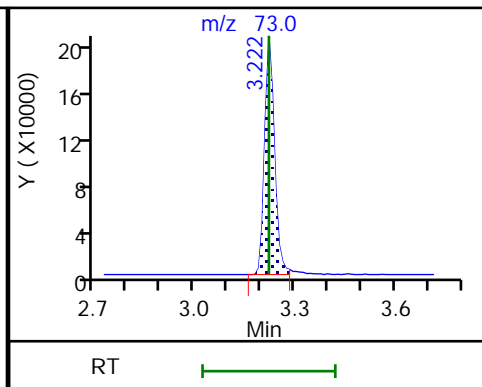
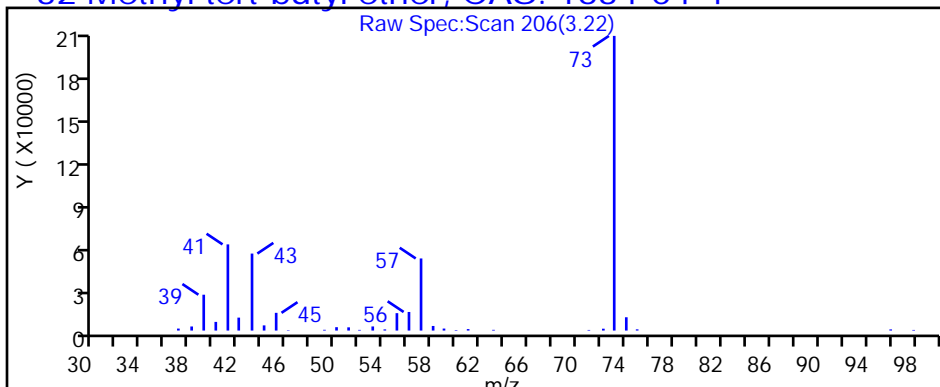
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

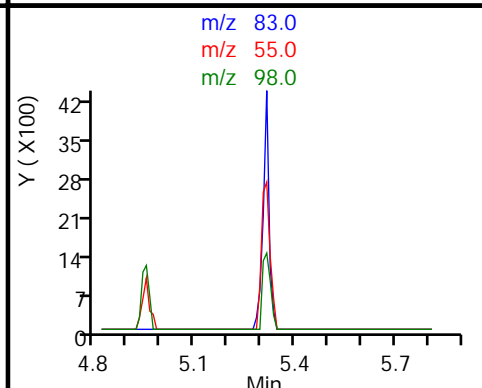
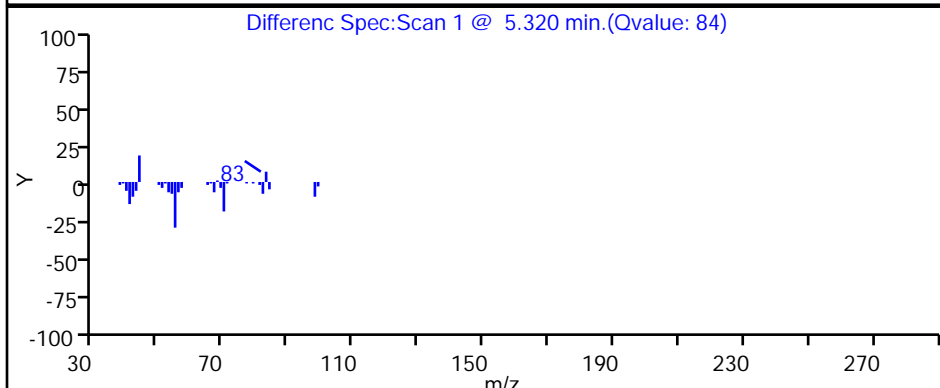
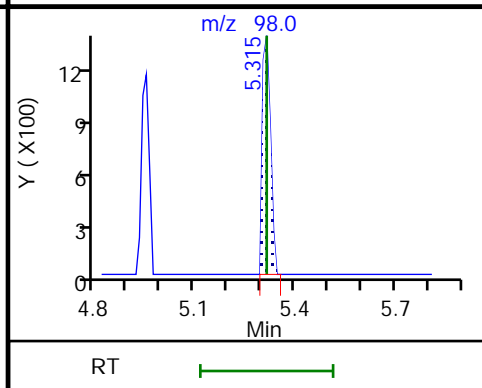
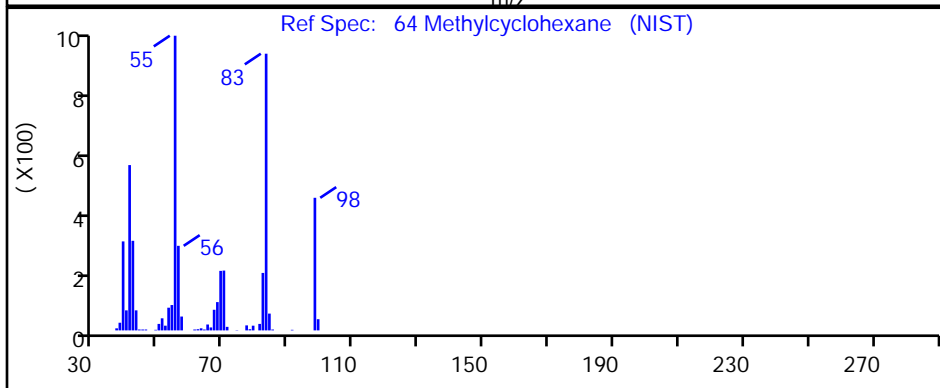
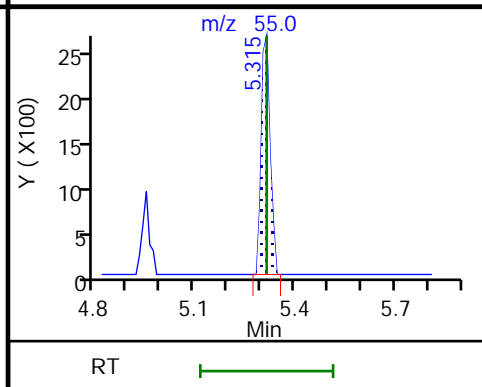
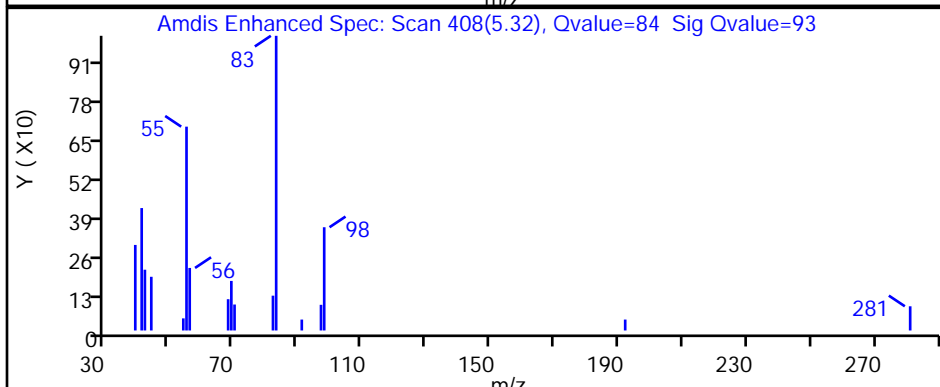
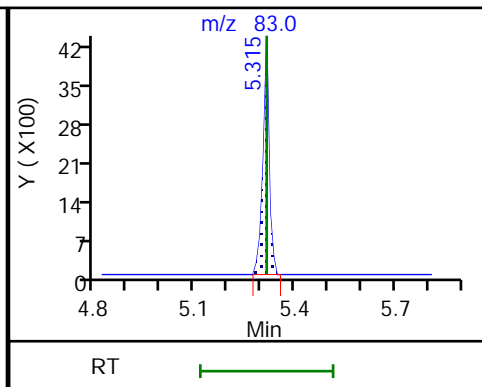
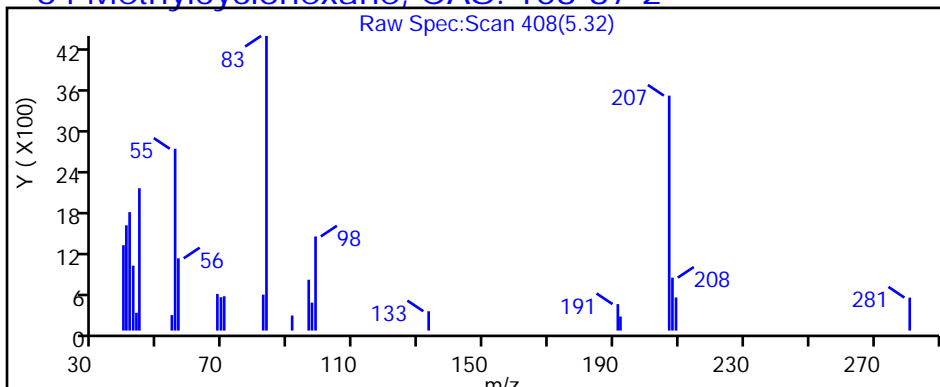
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

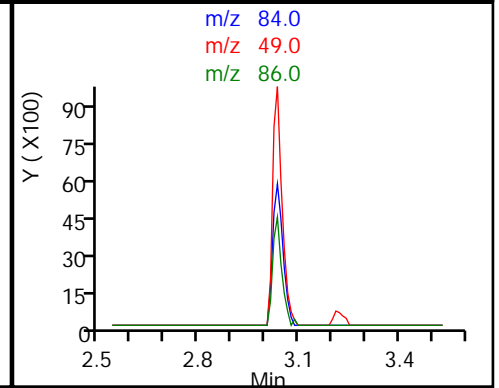
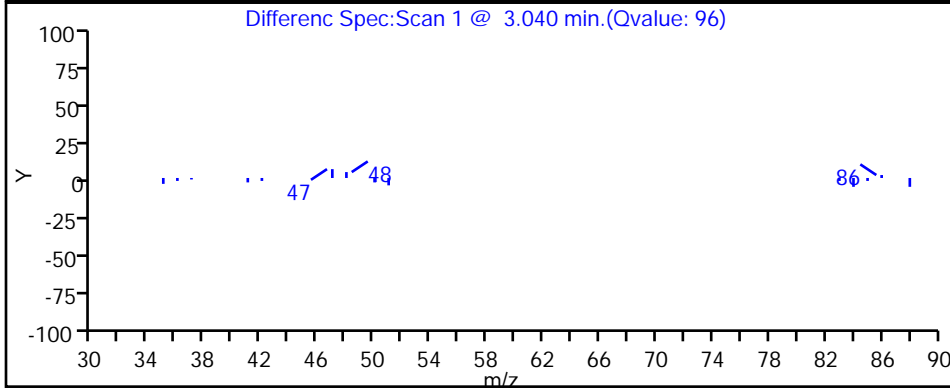
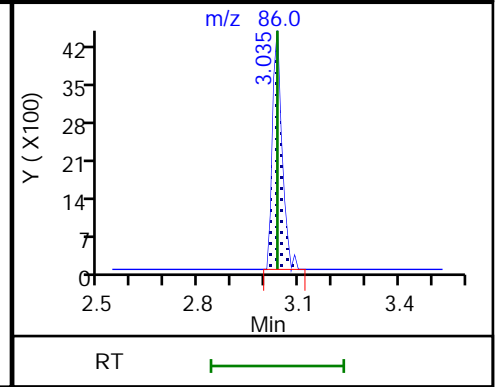
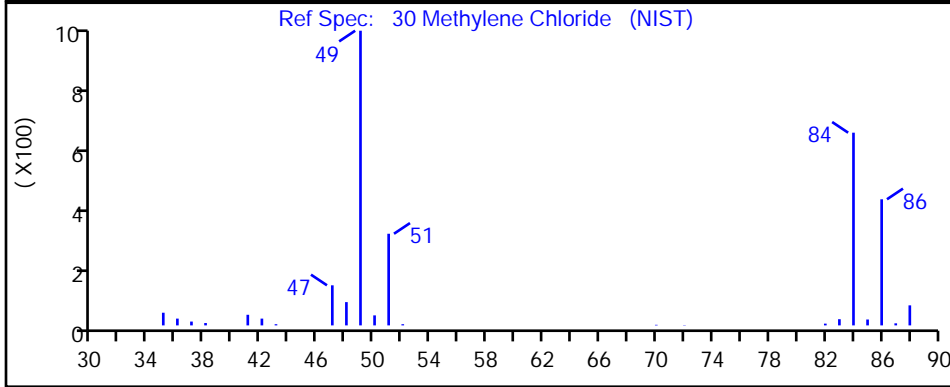
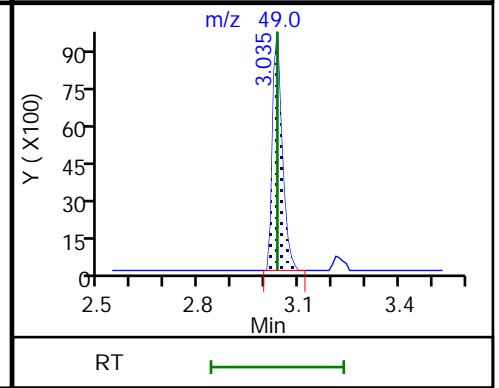
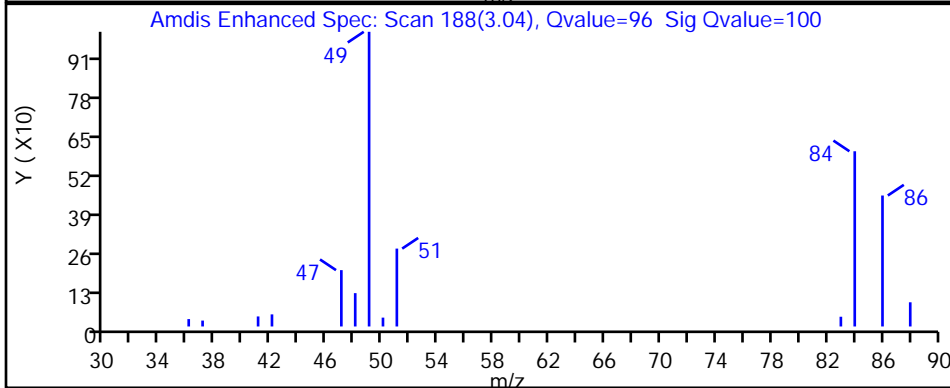
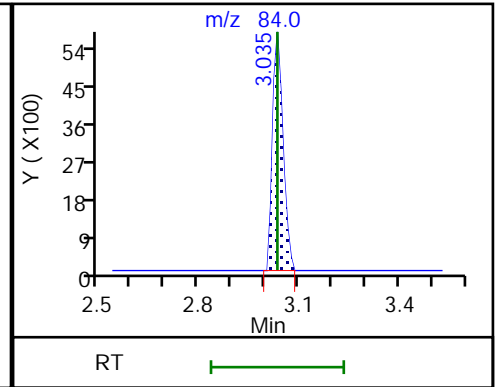
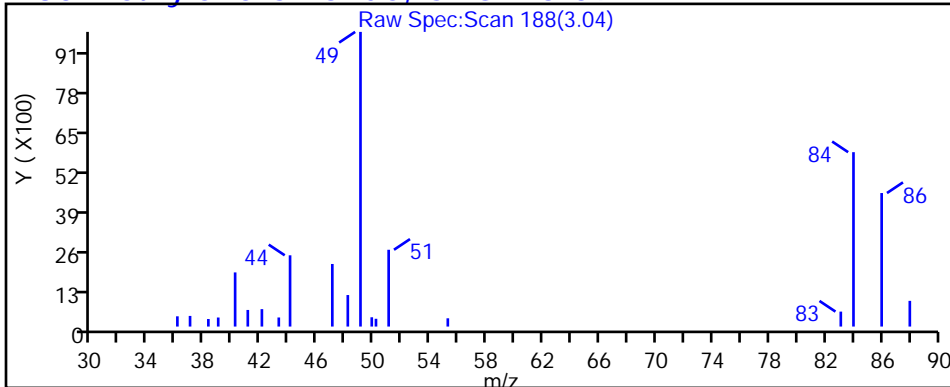
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

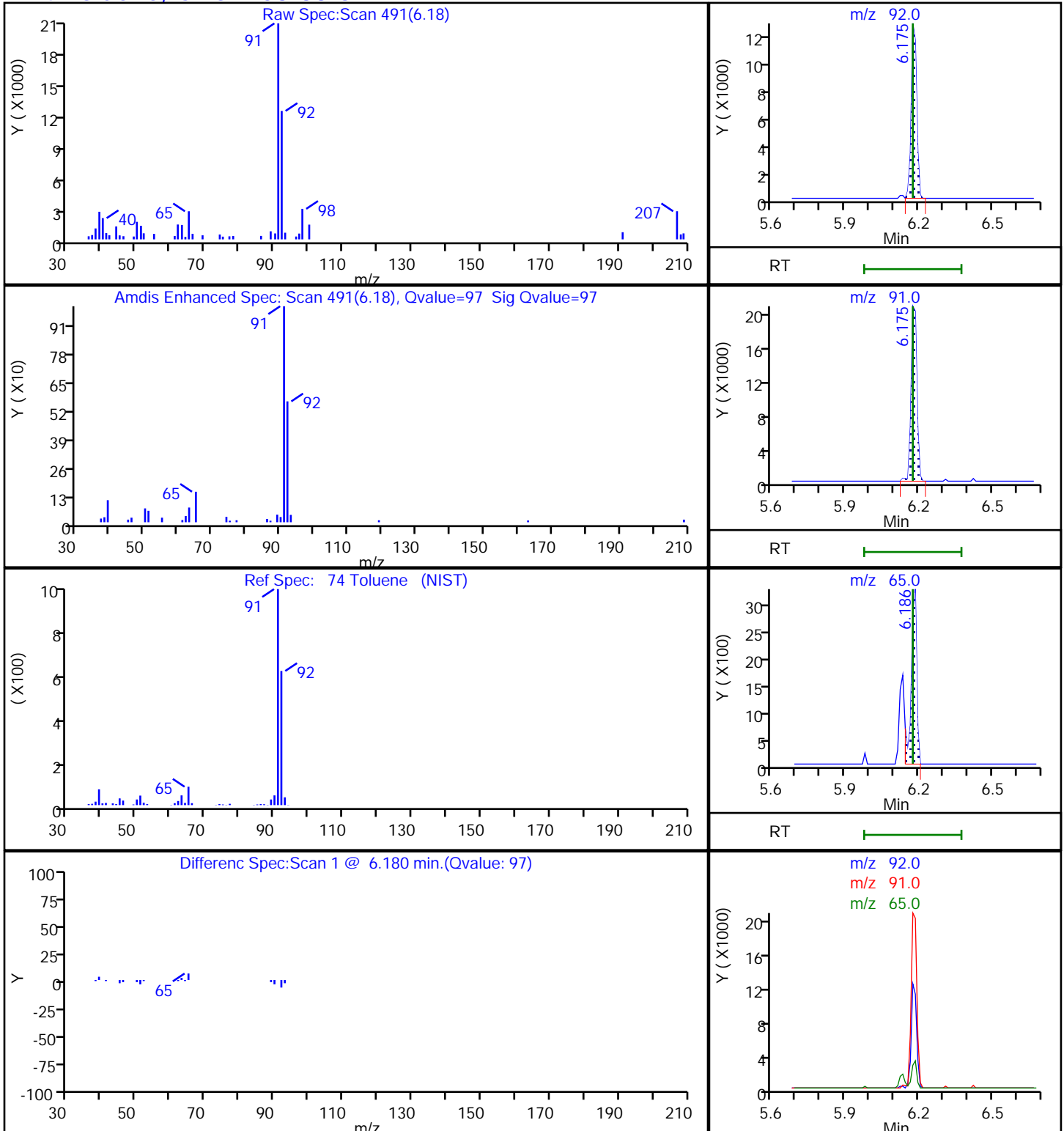
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

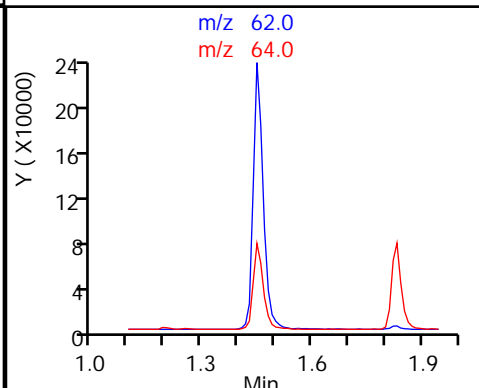
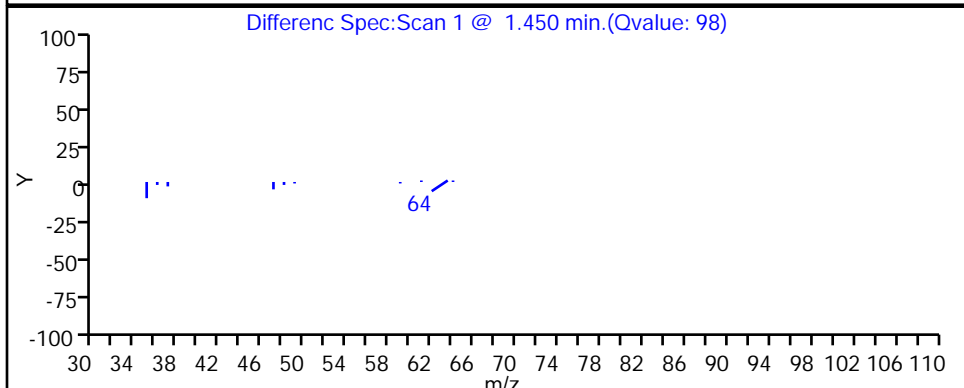
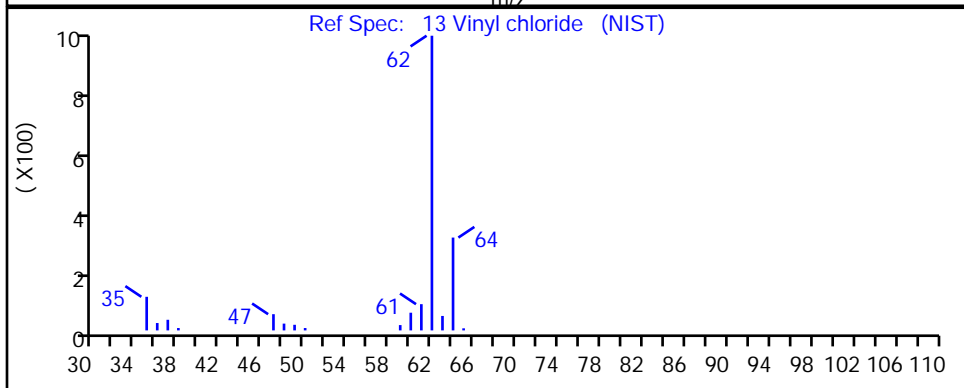
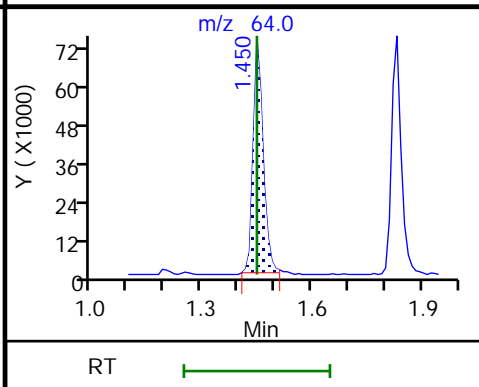
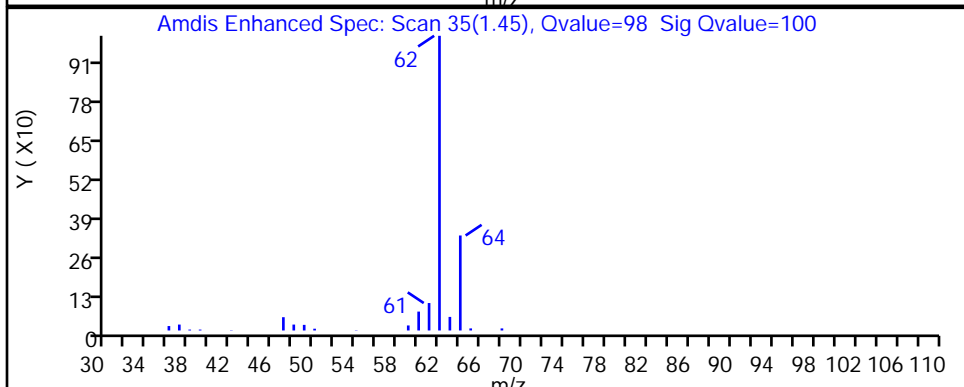
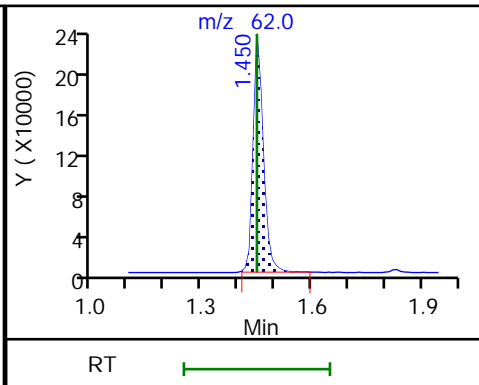
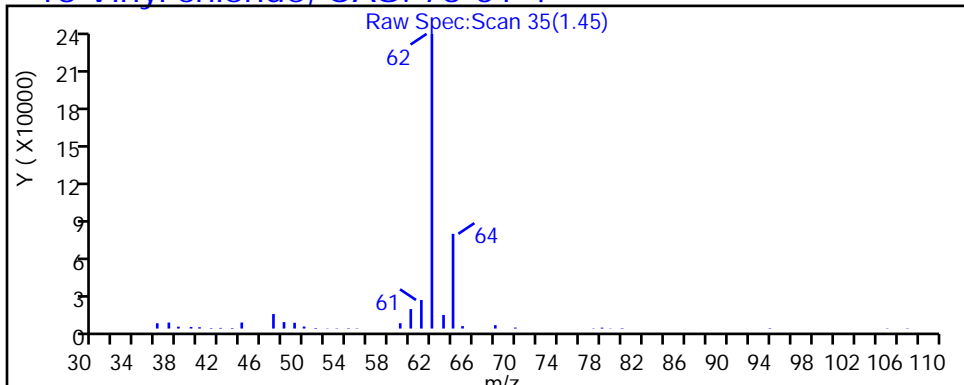
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

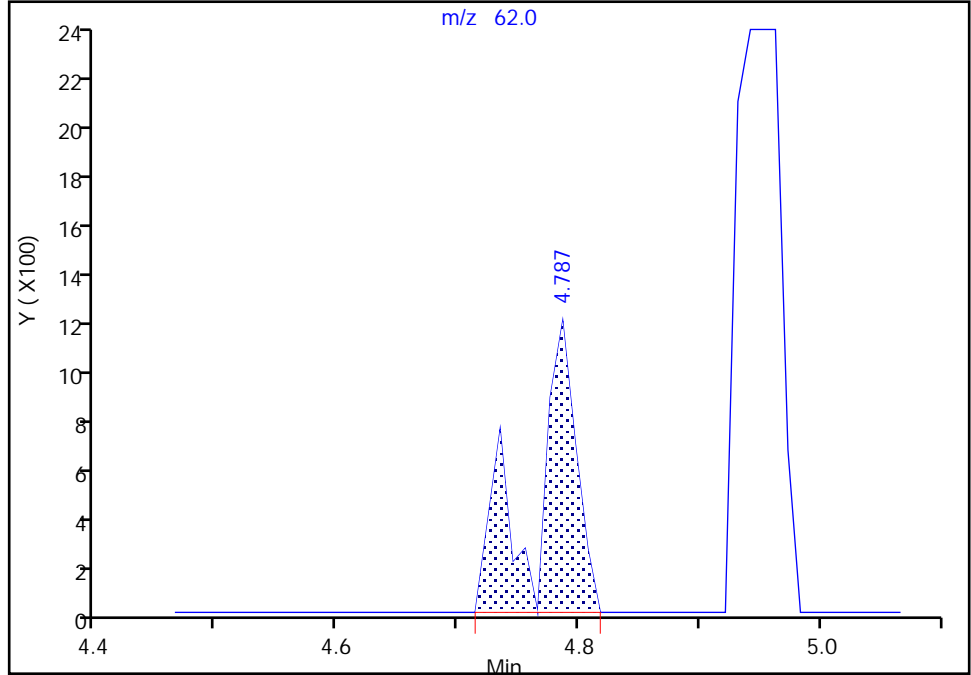
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
Injection Date: 02-Mar-2019 04:48:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-6 Lab Sample ID: 480-149618-6
Client ID: GMX-MW3
Operator ID: NC ALS Bottle#: 18 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

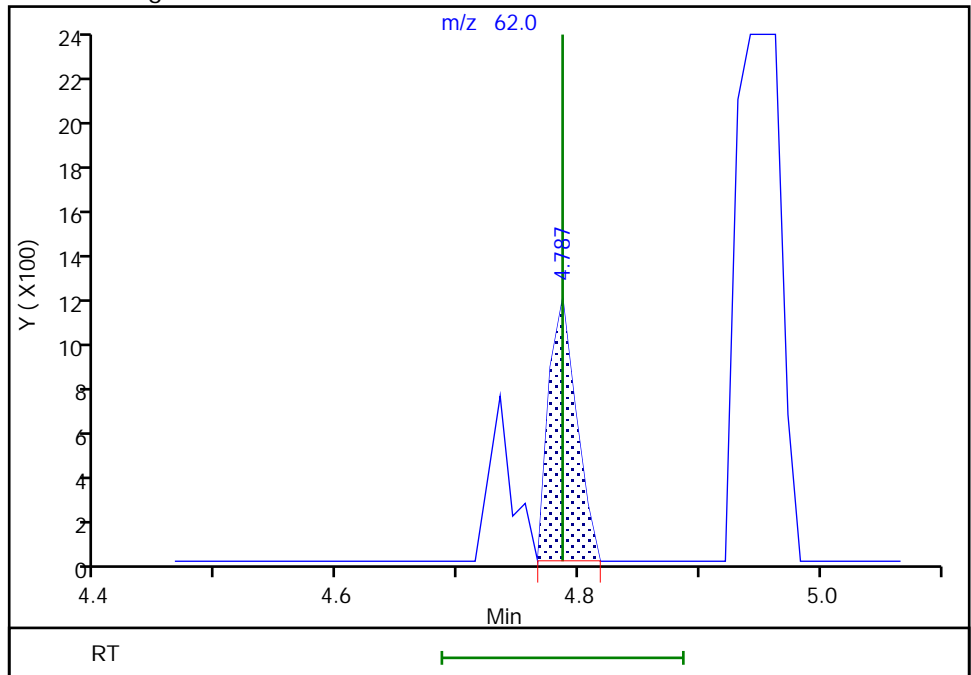
RT: 4.79
Area: 2851
Amount: 0.138246
Amount Units: ug/L

Processing Integration Results



RT: 4.79
Area: 1864
Amount: 0.090386
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:08:19
Audit Action: Manually Integrated

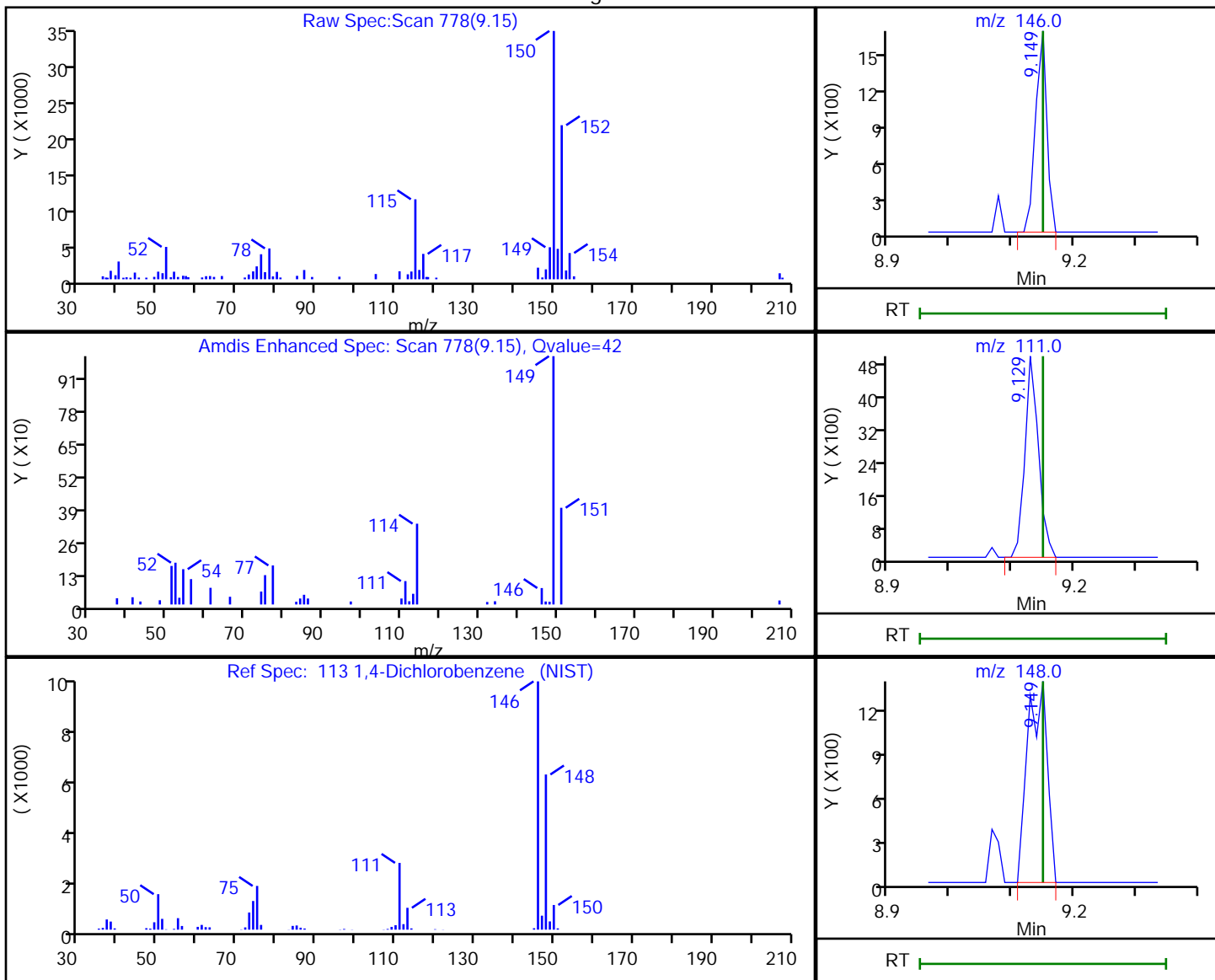
Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
 Injection Date: 02-Mar-2019 04:48:30 Instrument ID: HP5973C
 Lims ID: 480-149618-B-6 Lab Sample ID: 480-149618-6
 Client ID: GMX-MW3
 Operator ID: NC ALS Bottle#: 18 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.15	146.00	2063	0.058424
9.13	111.00	7547	
9.15	148.00	3016	

Reviewer: izquierdo, 02-Mar-2019 13:09:15
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

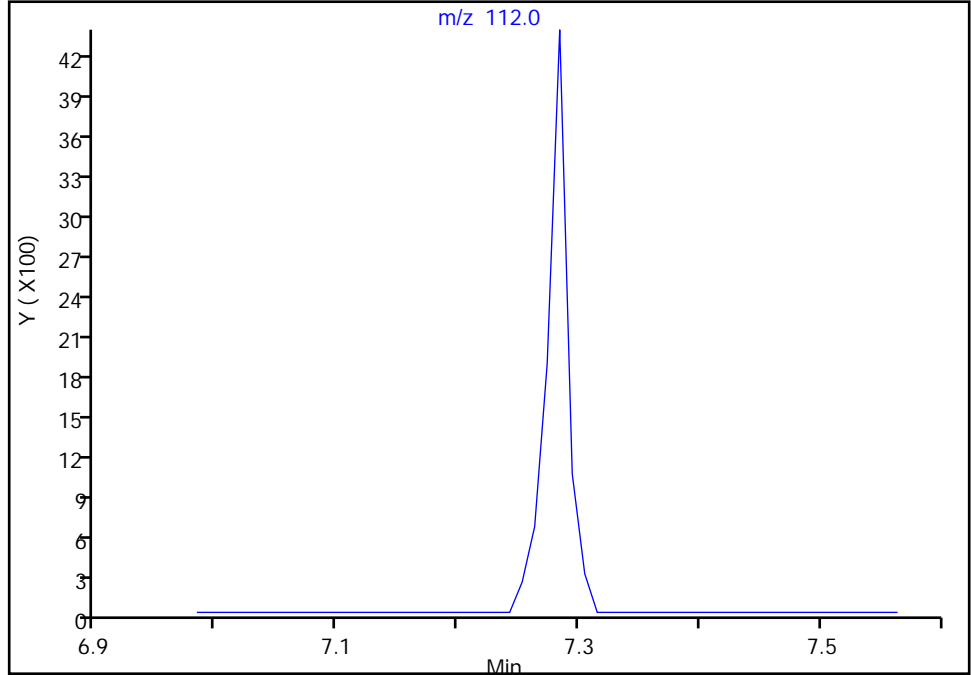
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D				
Injection Date:	02-Mar-2019 04:48:30	Instrument ID:	HP5973C		
Lims ID:	480-149618-B-6	Lab Sample ID:	480-149618-6		
Client ID:	GMX-MW3				
Operator ID:	NC	ALS Bottle#:	18	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7

Signal: 1

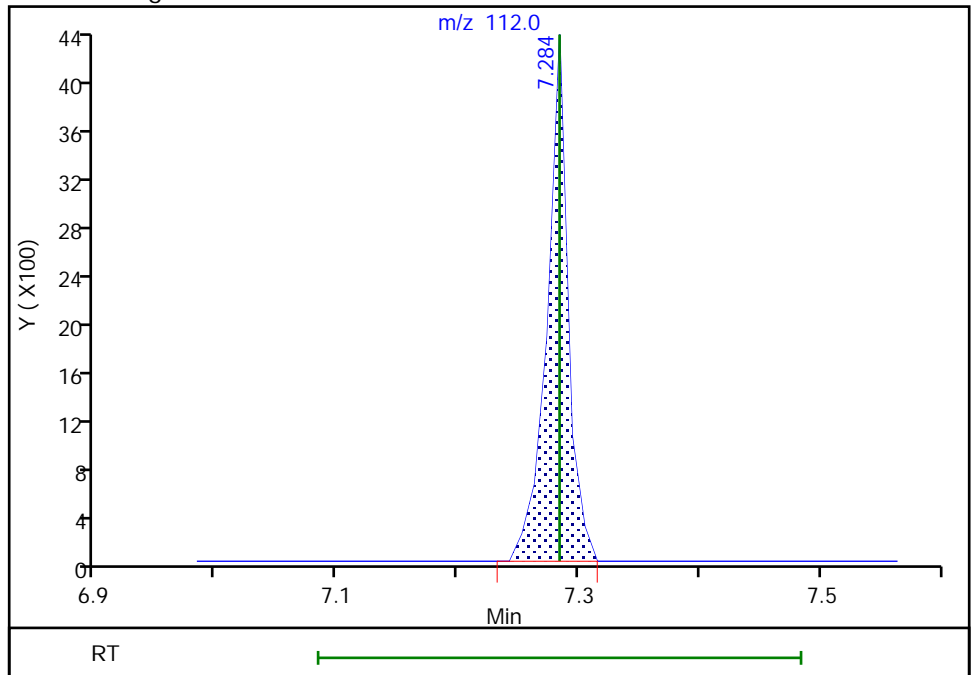
Not Detected
Expected RT: 7.28

Processing Integration Results



RT: 7.28
Area: 5190
Amount: 0.146308
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:08:42
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

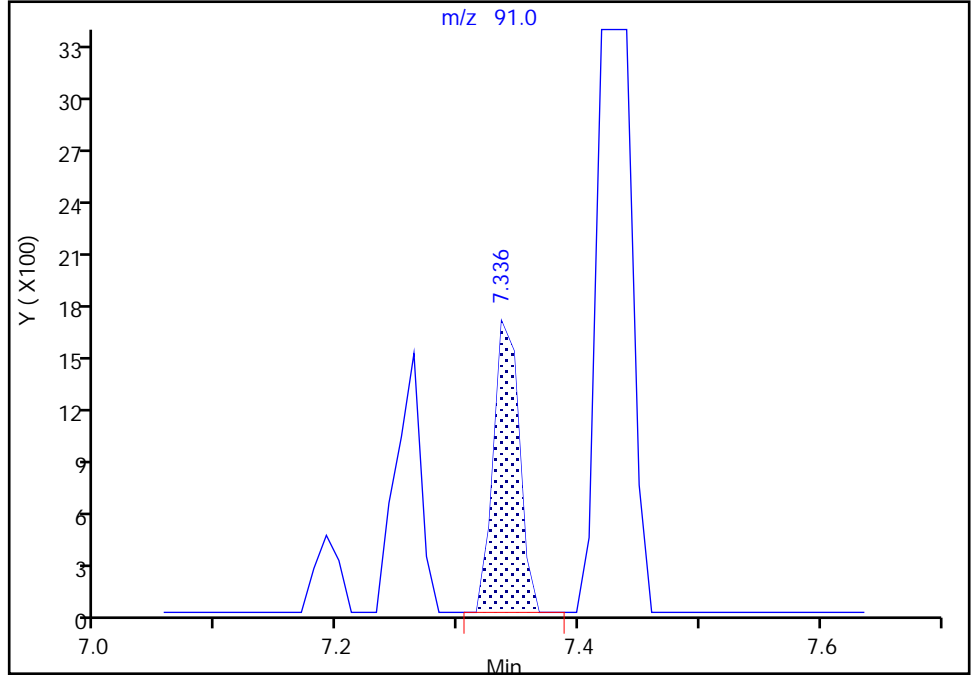
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
Injection Date: 02-Mar-2019 04:48:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-6 Lab Sample ID: 480-149618-6
Client ID: GMX-MW3
Operator ID: NC ALS Bottle#: 18 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4

Signal: 1

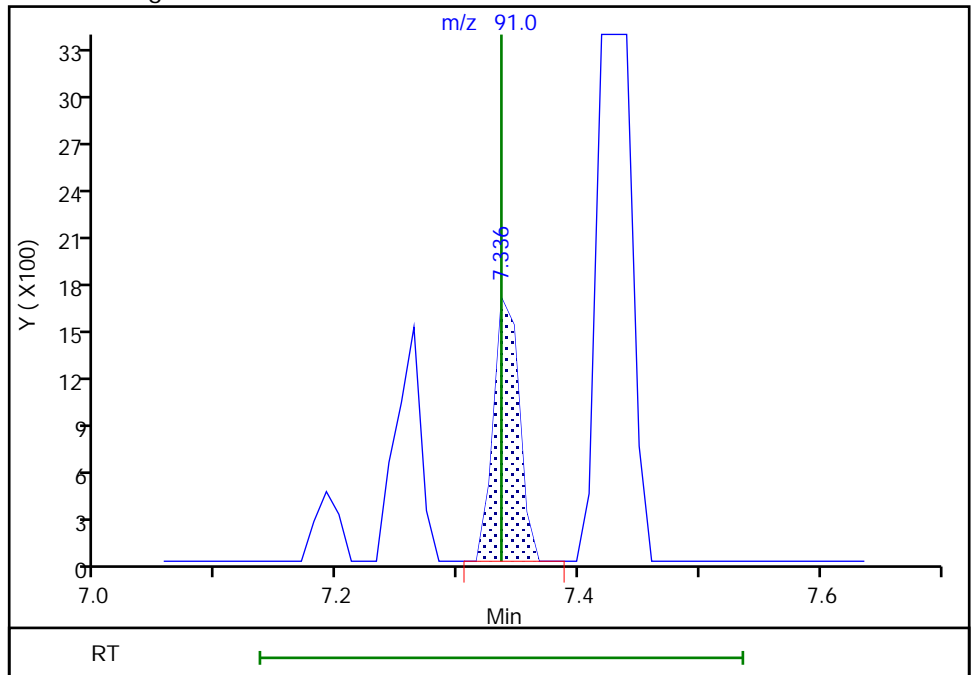
RT: 7.34
Area: 2484
Amount: 0.042857
Amount Units: ug/L

Processing Integration Results



RT: 7.34
Area: 2484
Amount: 0.042857
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:08:45
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D

Injection Date: 02-Mar-2019 04:48:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-6

Lab Sample ID: 480-149618-6

Client ID: GMX-MW3

Operator ID: NC

ALS Bottle#: 18 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

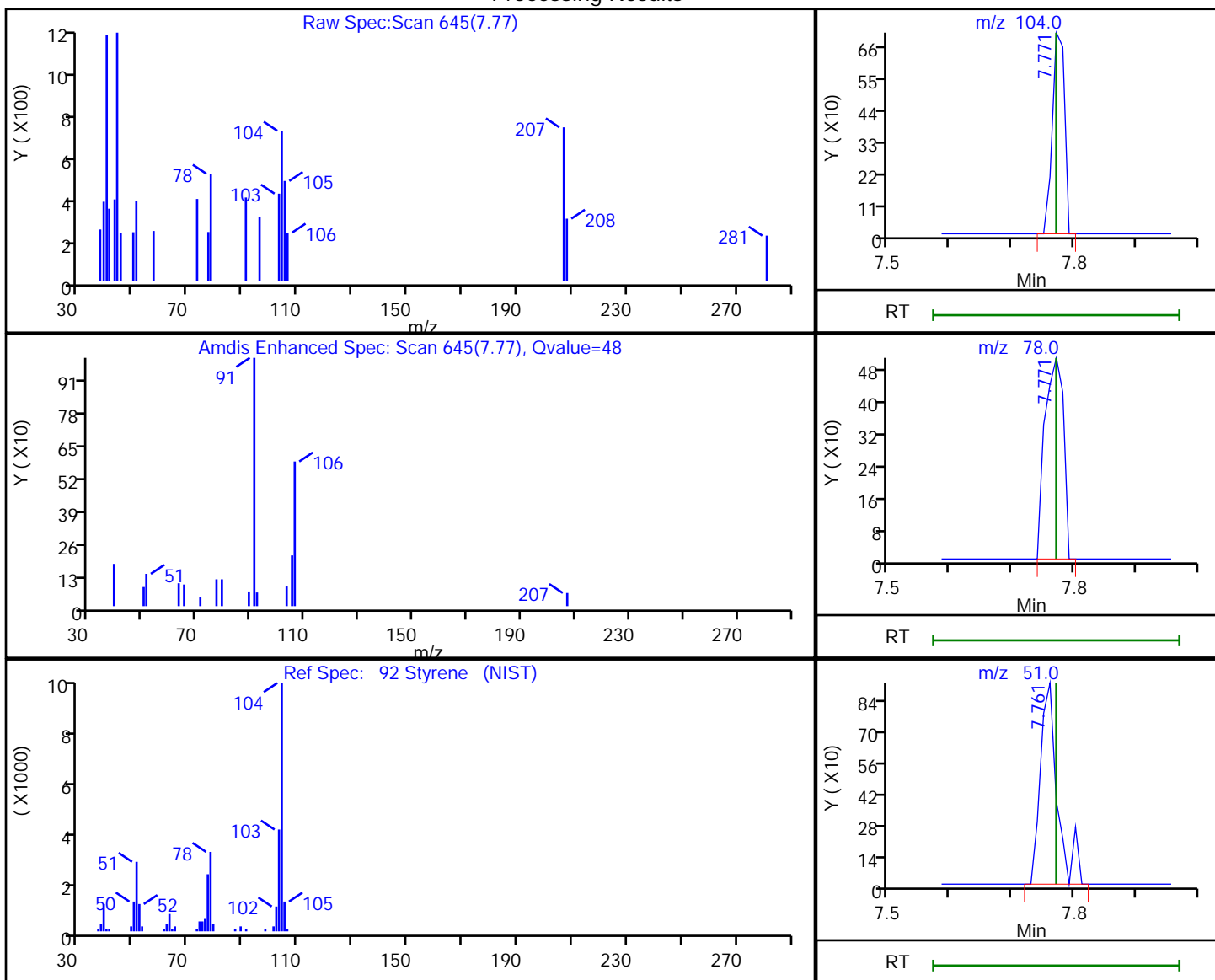
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.77	104.00	976	0.026904
7.77	78.00	1059	
7.76	51.00	1756	

Reviewer: izquierdoo, 02-Mar-2019 13:08:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

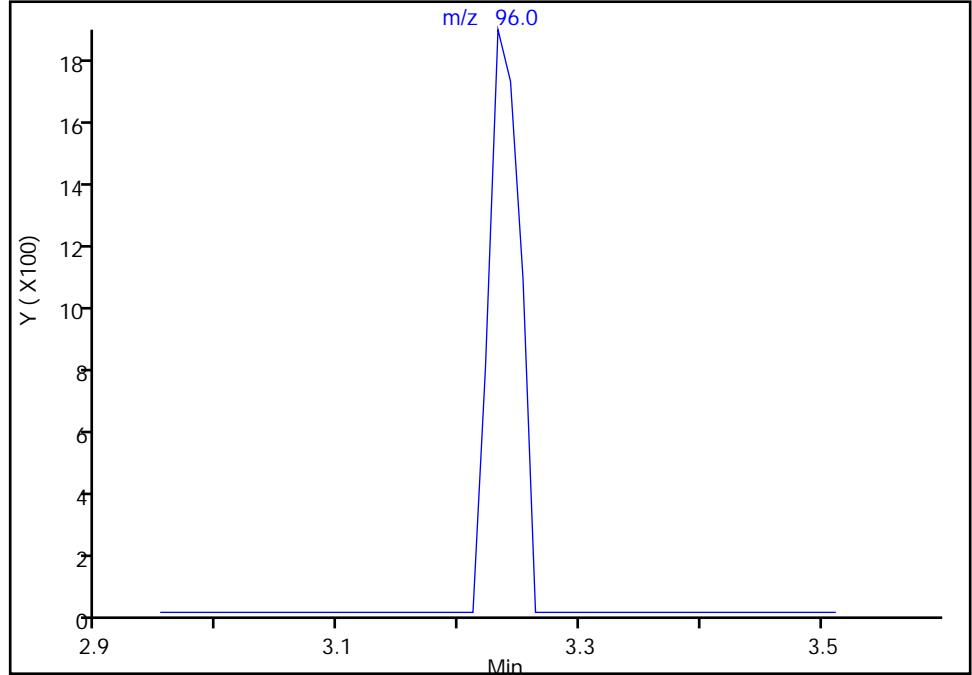
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
Injection Date: 02-Mar-2019 04:48:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-6 Lab Sample ID: 480-149618-6
Client ID: GMX-MW3
Operator ID: NC ALS Bottle#: 18 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

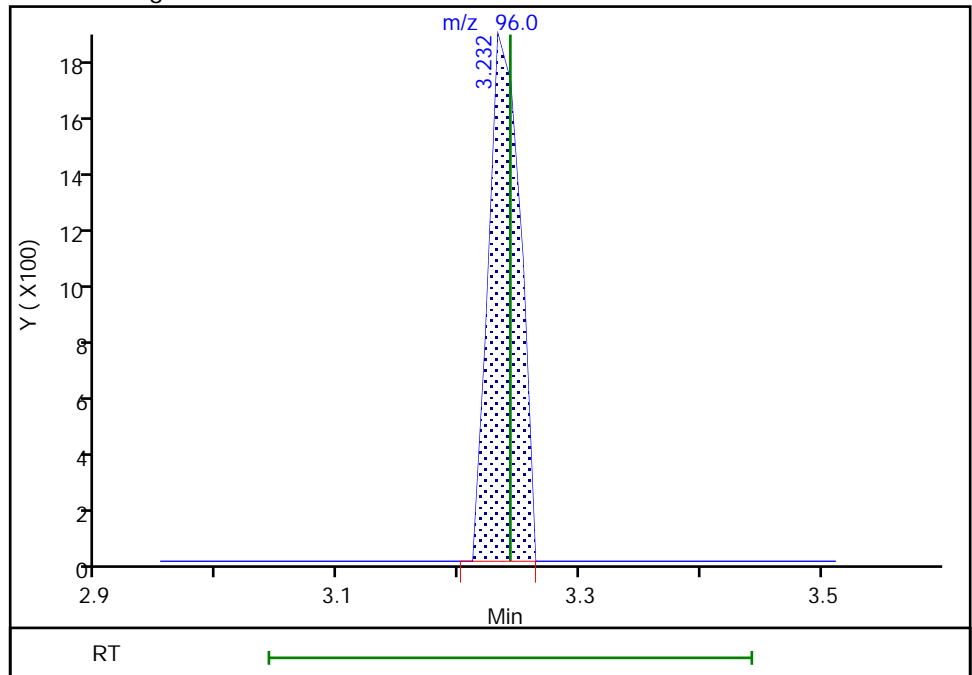
Not Detected
Expected RT: 3.24

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 3346
Amount: 0.254685
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:07:48
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

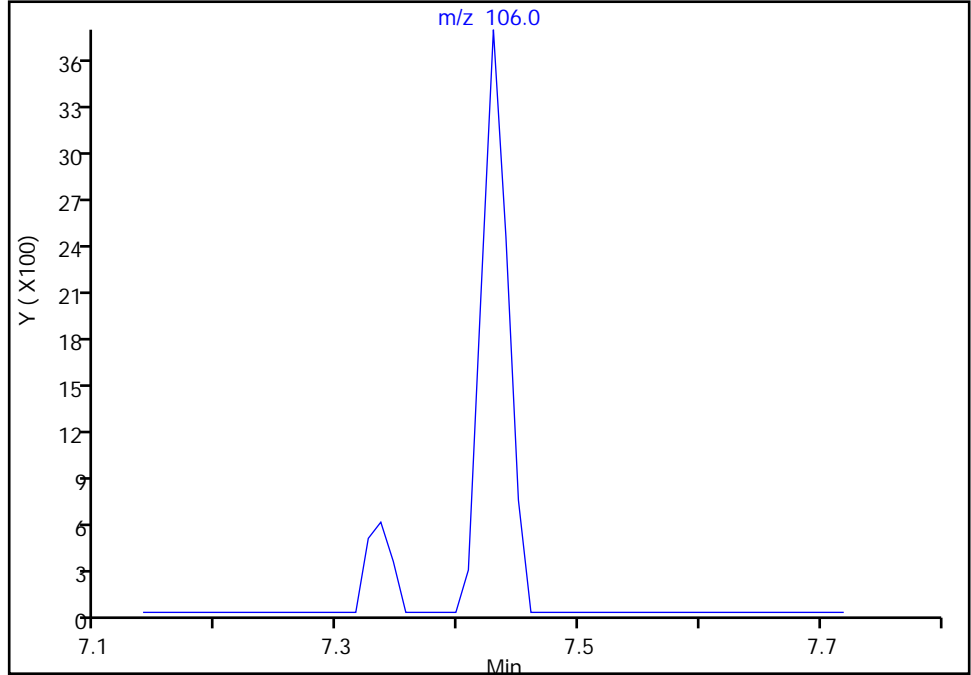
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
Injection Date: 02-Mar-2019 04:48:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-6 Lab Sample ID: 480-149618-6
Client ID: GMX-MW3
Operator ID: NC ALS Bottle#: 18 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

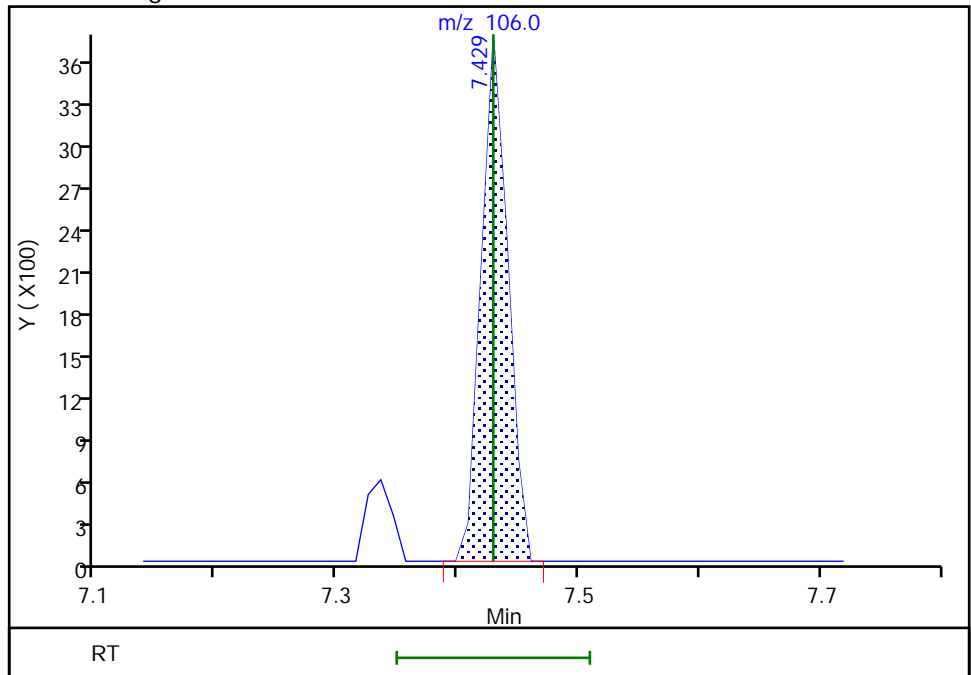
Not Detected
Expected RT: 7.43

Processing Integration Results



Manual Integration Results

RT: 7.43
Area: 5703
Amount: 0.244523
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:08:49
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

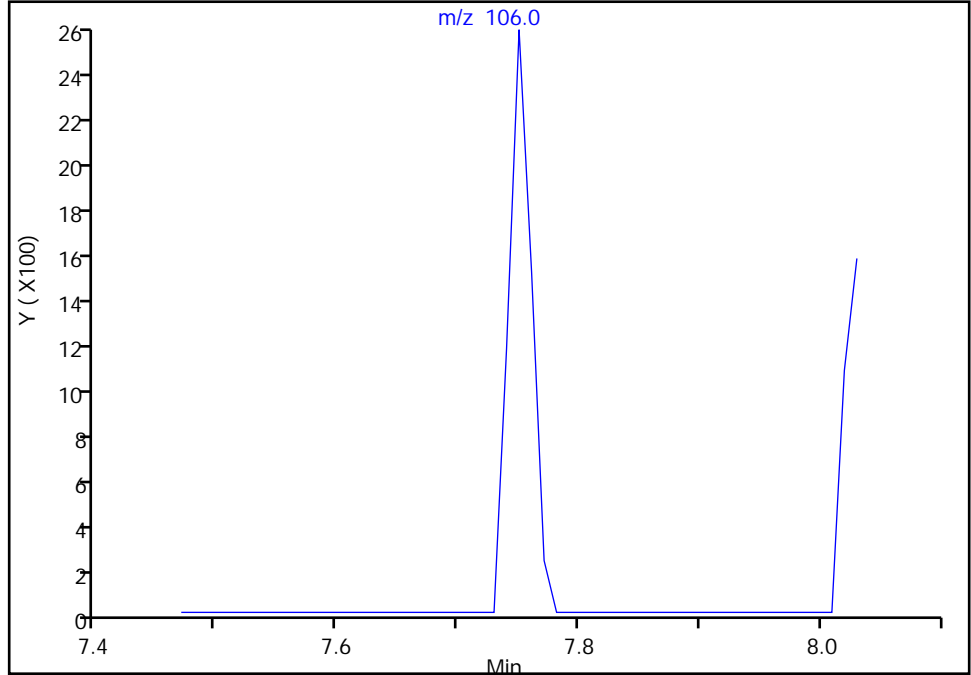
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5017.D
Injection Date: 02-Mar-2019 04:48:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-6 Lab Sample ID: 480-149618-6
Client ID: GMX-MW3
Operator ID: NC ALS Bottle#: 18 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

Signal: 1

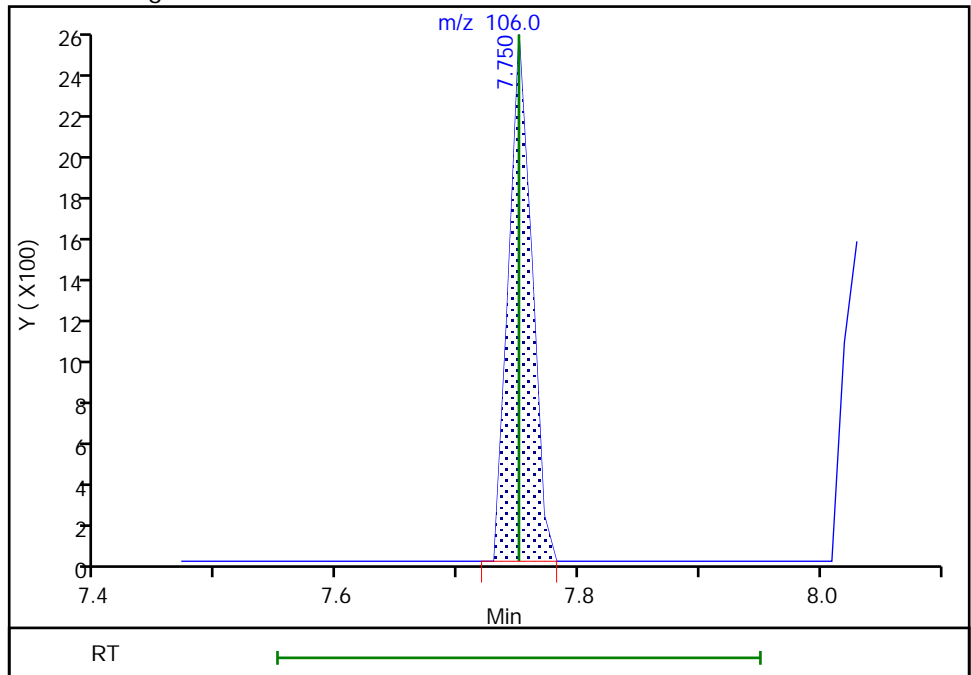
Not Detected
Expected RT: 7.75

Processing Integration Results



Manual Integration Results

RT: 7.75
Area: 3389
Amount: 0.137386
Amount Units: ug/L



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-16 Lab Sample ID: 480-149618-7
 Matrix: Water Lab File ID: C5018.D
 Analysis Method: 8260C Date Collected: 02/26/2019 15:25
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:15
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	2.7		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	7.6	J *	20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	41		10	4.2
67-64-1	Acetone	16	J	20	6.0
71-43-2	Benzene	4.7		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND	*	2.0	0.64
75-00-3	Chloroethane	0.89	J	2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	6.1		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	2.1		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	5.7		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-16 Lab Sample ID: 480-149618-7
 Matrix: Water Lab File ID: C5018.D
 Analysis Method: 8260C Date Collected: 02/26/2019 15:25
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:15
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	26		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.0		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	1.8	J	2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	2.8		2.0	1.8
1330-20-7	Xylenes, Total	16		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-16 Lab Sample ID: 480-149618-7
 Matrix: Water Lab File ID: C5018.D
 Analysis Method: 8260C Date Collected: 02/26/2019 15:25
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:15
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 8.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	7.79	8.4	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D
 Lims ID: 480-149618-B-7
 Client ID: LAB-SBW-16
 Sample Type: Client
 Inject. Date: 02-Mar-2019 05:15:30 ALS Bottle#: 19 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-149618-B-7
 Misc. Info.: 480-0079070-022
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:15:53 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 13:15:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	199132	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	85	437444	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	95	486963	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	93	300704	26.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	96	185261	26.5	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	93	1132182	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	95	381069	27.6	
10 Dichlorodifluoromethane	85		1.190				ND	
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.439	0.000	97	19361	1.40	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.823	0.000	76	3882	0.4454	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.538				ND	Ua
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43	2.662	2.662	0.000	98	41985	8.04	M
26 Carbon disulfide	76		2.735				ND	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	94	13184	1.00	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	98	473501	13.2	
34 trans-1,2-Dichloroethene	96	3.232	3.232	-0.010	28	2053	0.1645	Ma
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	30329	1.35	
45 cis-1,2-Dichloroethene	96	4.092	4.082	0.010	81	45573	3.06	
43 2-Butanone (MEK)	43	4.123	4.134	-0.011	96	26735	3.79	
50 Chloroform	83	4.341	4.351	-0.010	32	1599	0.0705	7
51 1,1,1-Trichloroethane	97	4.445	4.444	0.001	94	4216	0.2386	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78	4.735	4.735	0.000	55	108625	2.33	
58 1,2-Dichloroethane	62	4.787	4.787	0.000	38	2020	0.1031	
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.315				ND	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.071	0.000	99	340452	20.7	
74 Toluene	92	6.175	6.186	0.000	98	28317	0.9099	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.590				ND	
80 2-Hexanone	43		6.704				ND	U
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112	7.284	7.284	0.000	86	6641	0.1833	
88 Ethylbenzene	91	7.346	7.336	0.010	98	61317	1.04	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	166293	6.98	
91 o-Xylene	106	7.750	7.750	0.000	97	20989	0.8332	
92 Styrene	104		7.771				ND	MUa
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	188692	2.83	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	Ua
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	36	4341	0.1239	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	96	7186	0.2089	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	U
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		7.82	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D
 Lims ID: 480-149618-B-7
 Client ID: LAB-SBW-16
 Sample Type: Client
 Inject. Date: 02-Mar-2019 05:15:30 ALS Bottle#: 19 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-149618-B-7
 Misc. Info.: 480-0079070-022
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:15:53 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315
 First Level Reviewer: izquierdo Date: 02-Mar-2019 13:15:53

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
7.792	486809	4.18	2		Unknown			

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 2 Chlorobenzene-d5	7.253	2914034	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Worklist Smp#: 22

Client ID: LAB-SBW-16

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

ALS Bottle#: 19

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

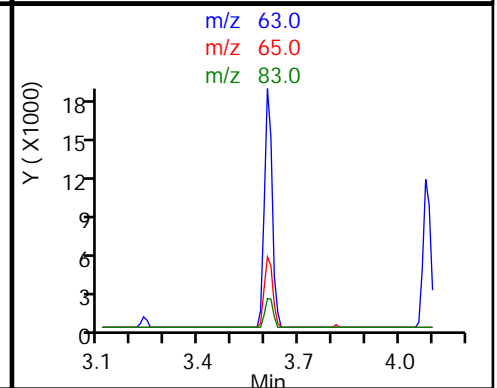
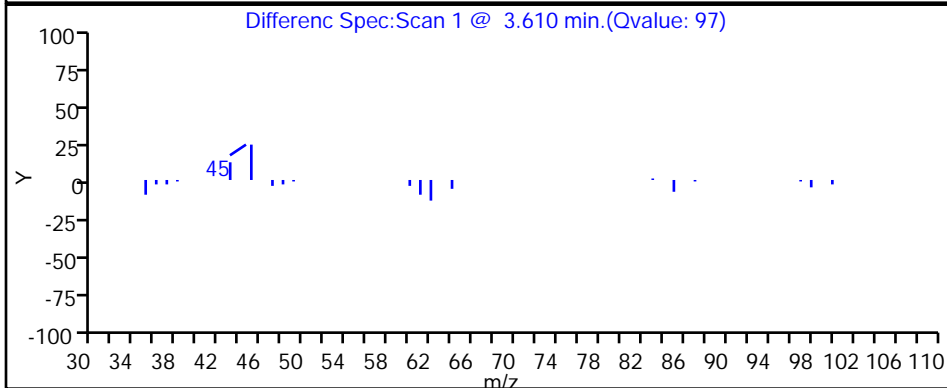
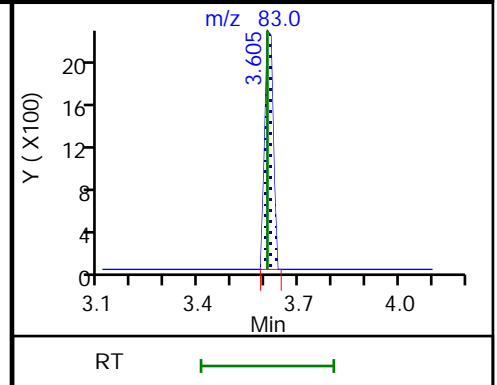
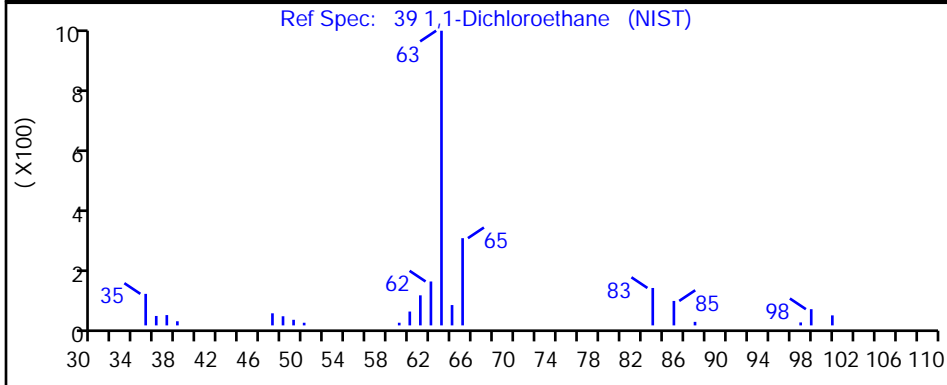
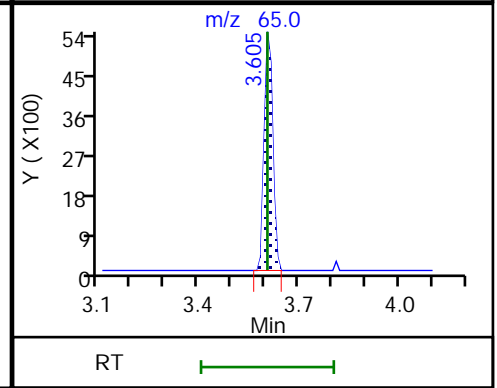
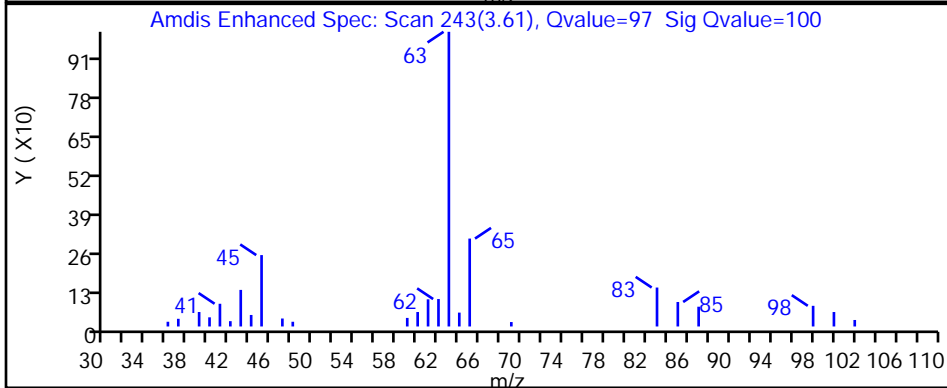
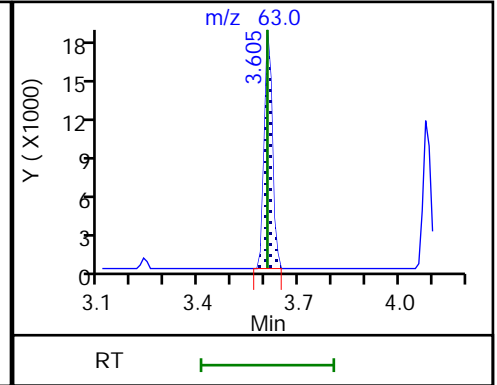
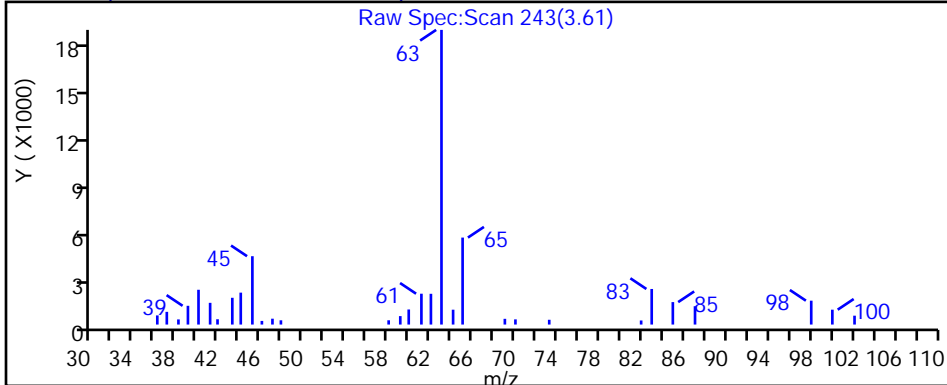
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

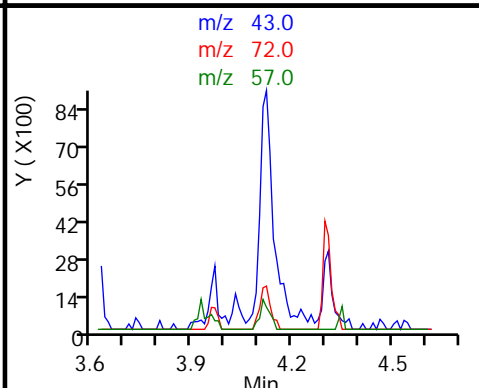
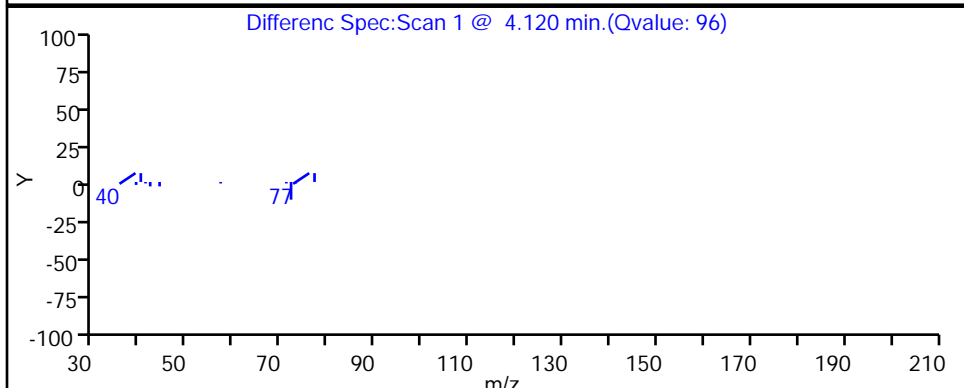
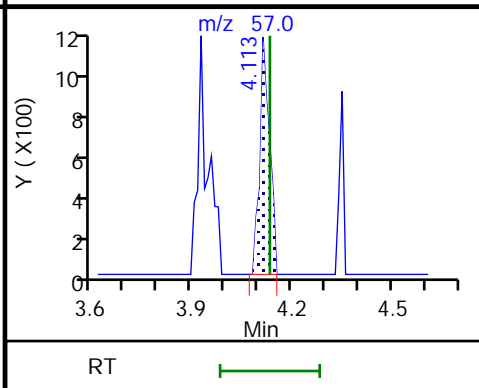
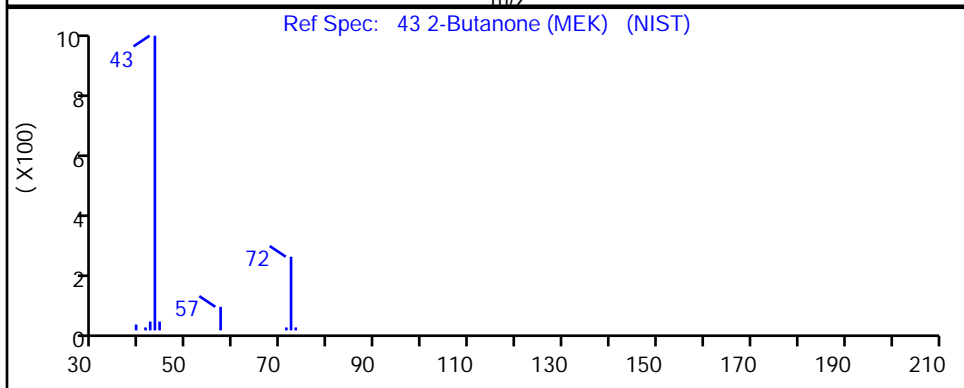
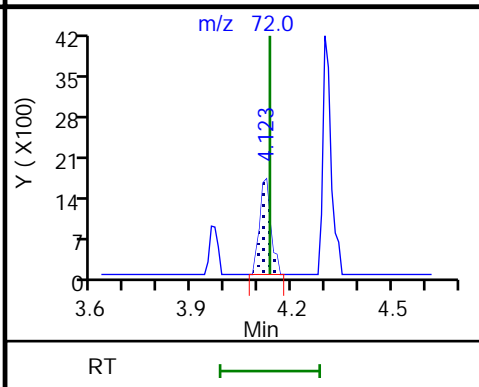
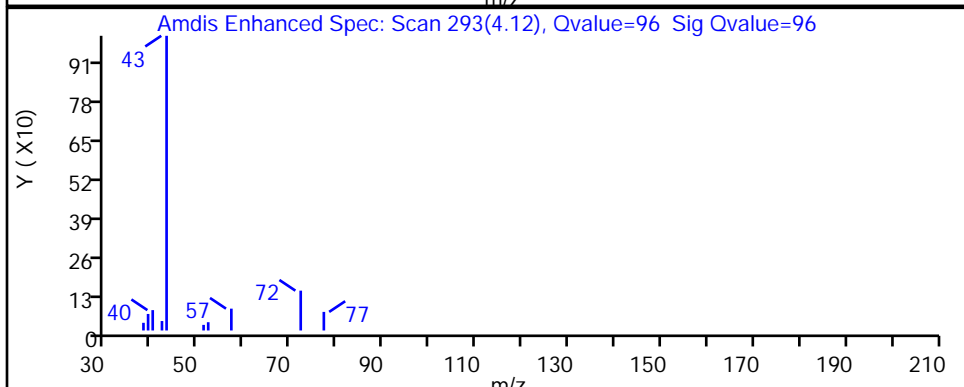
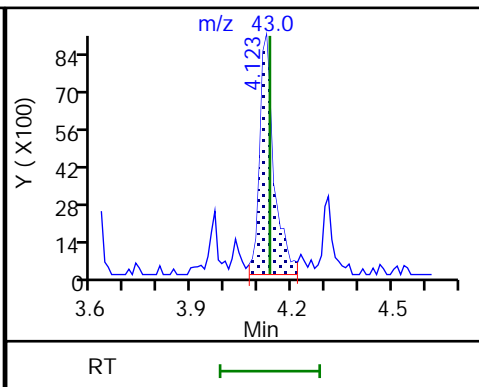
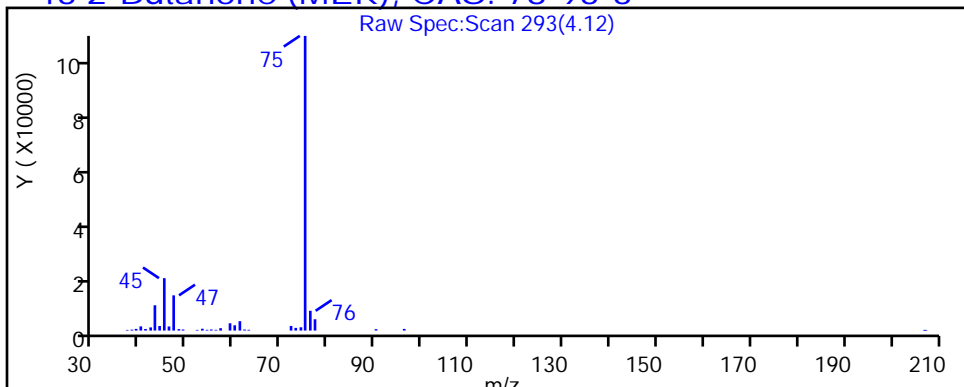
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

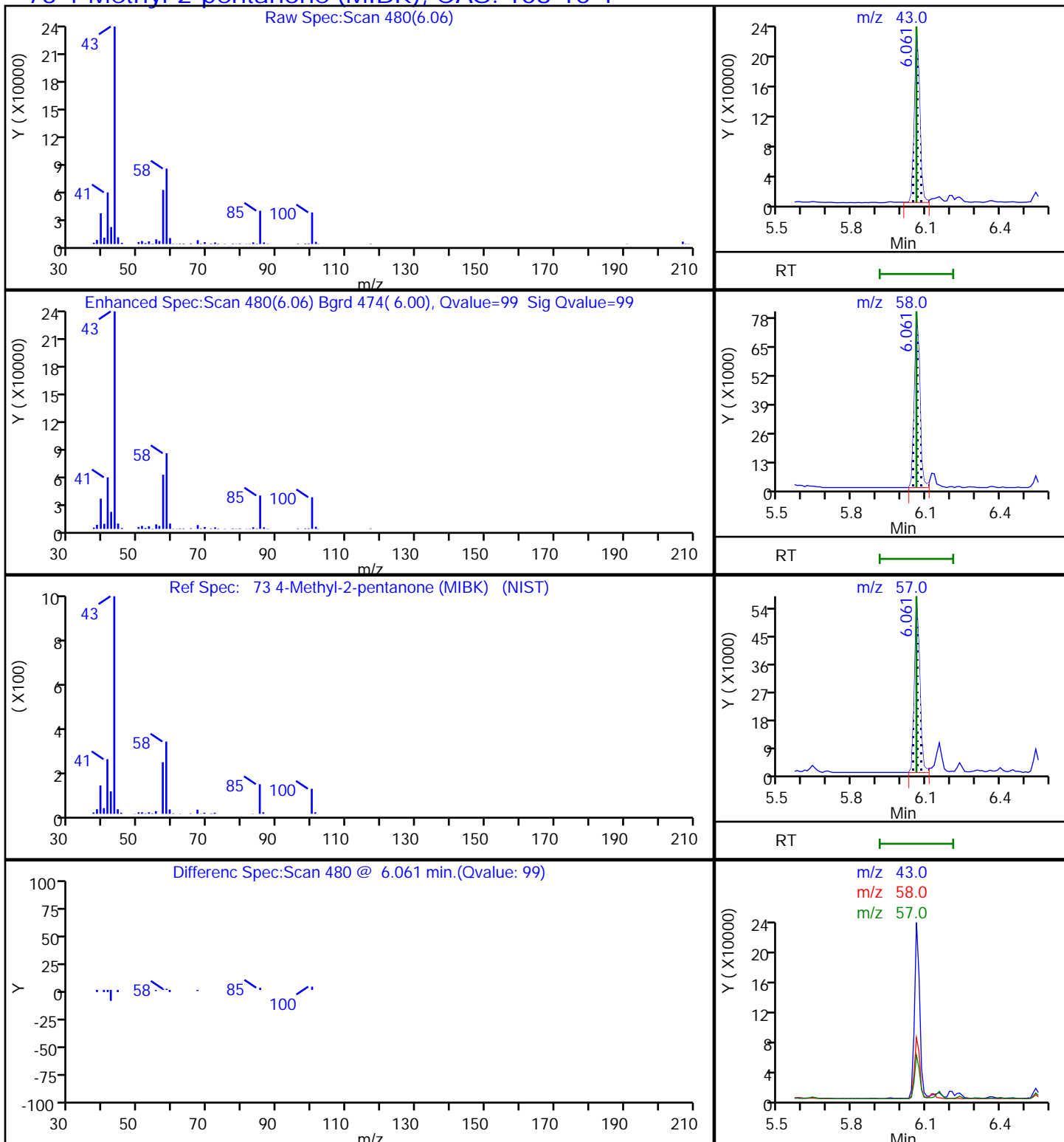
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

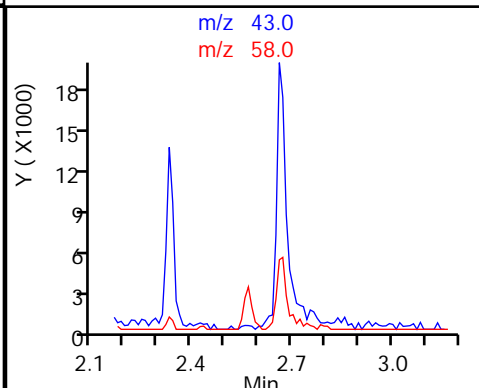
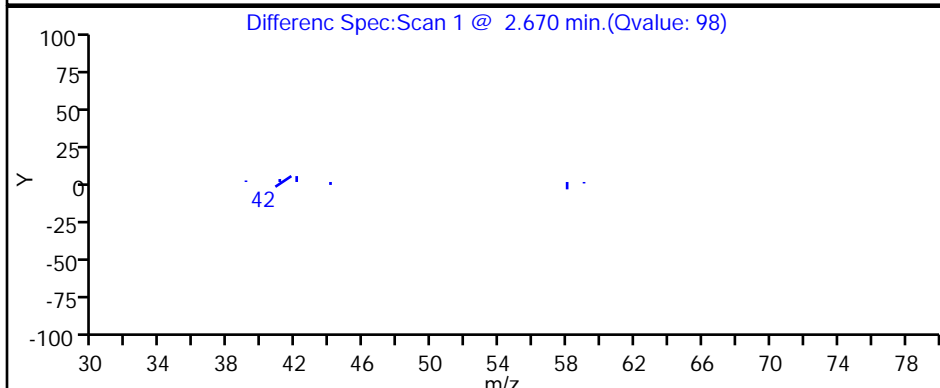
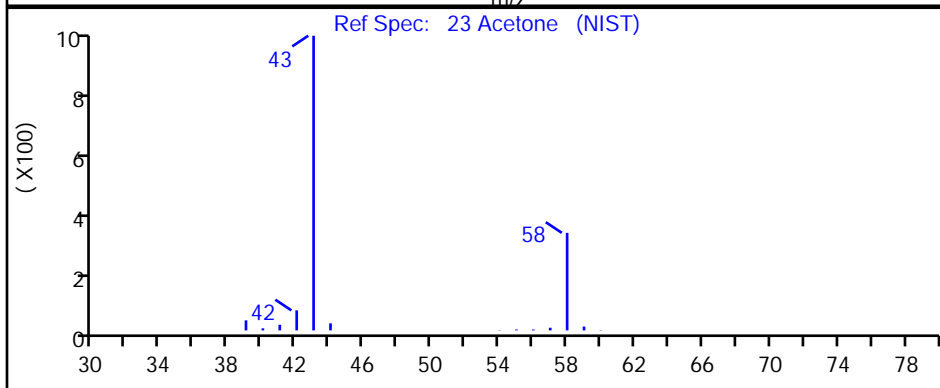
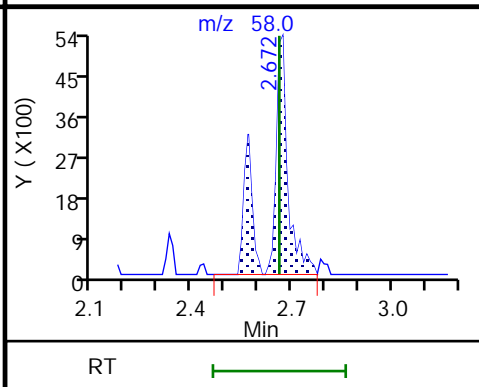
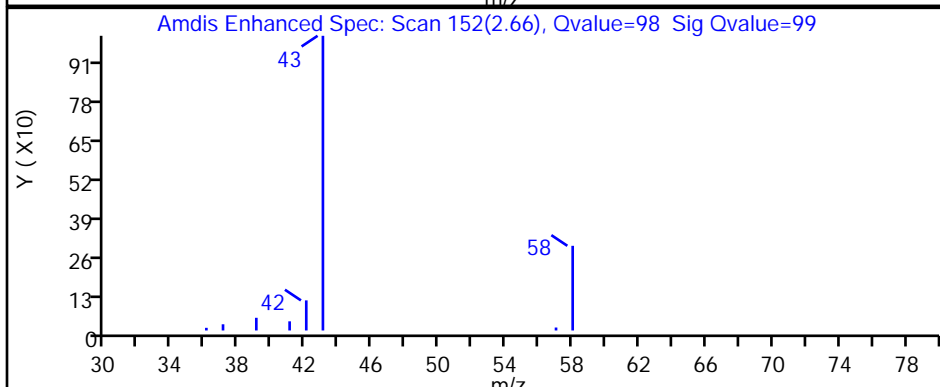
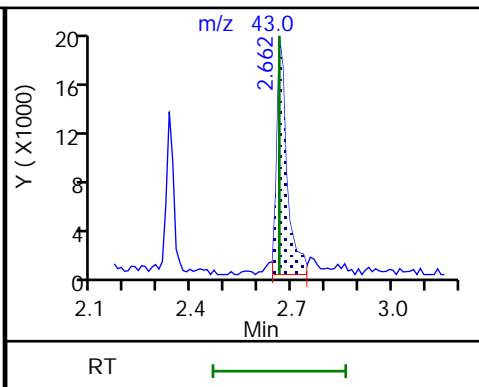
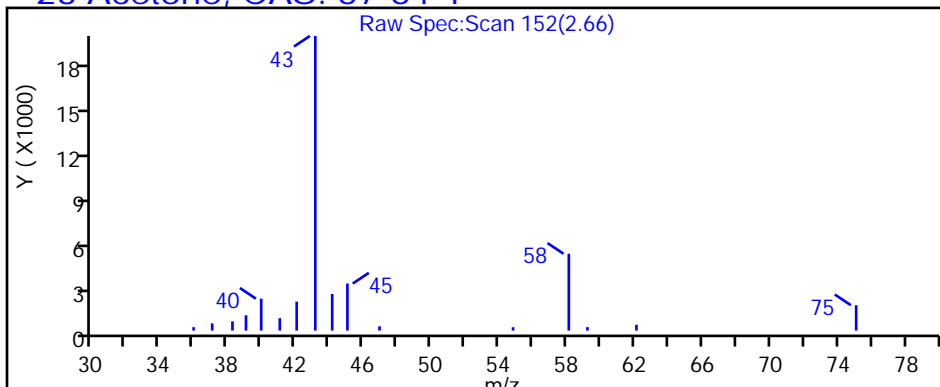
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

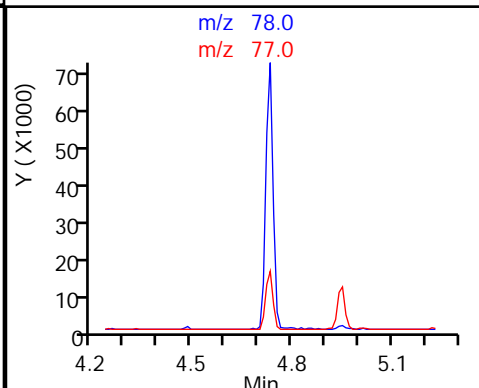
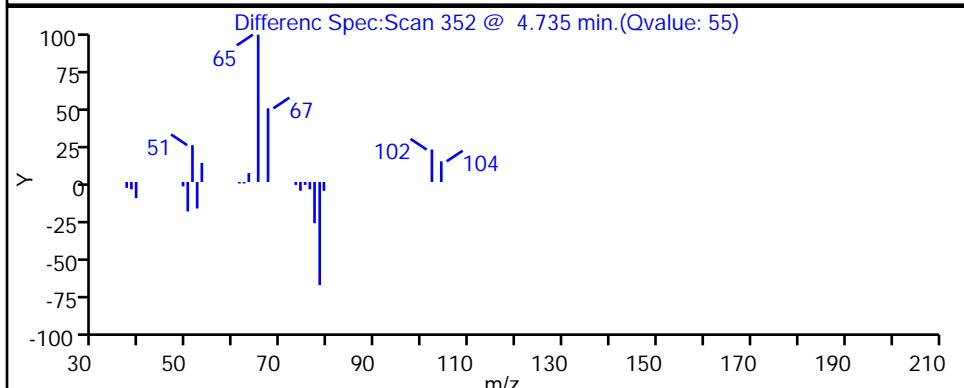
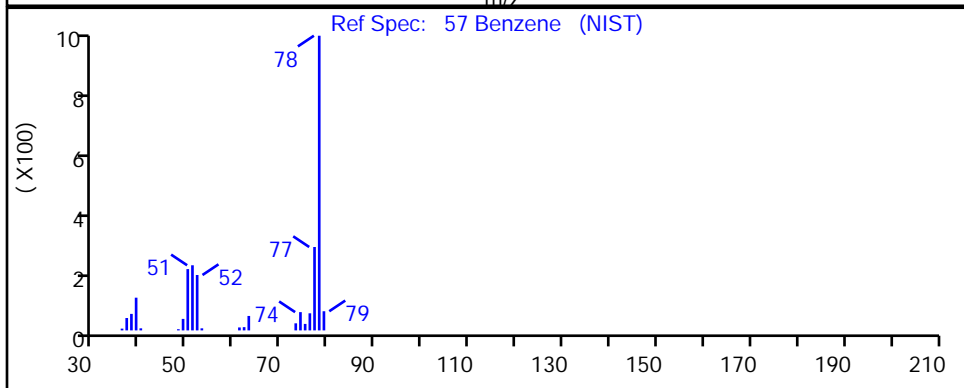
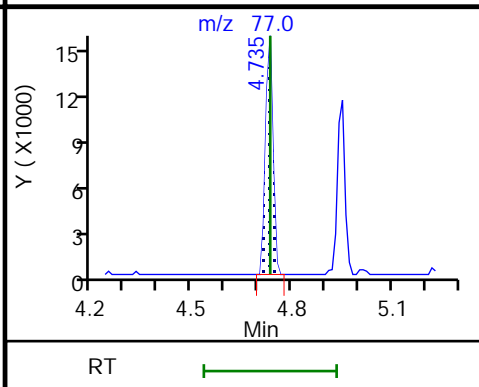
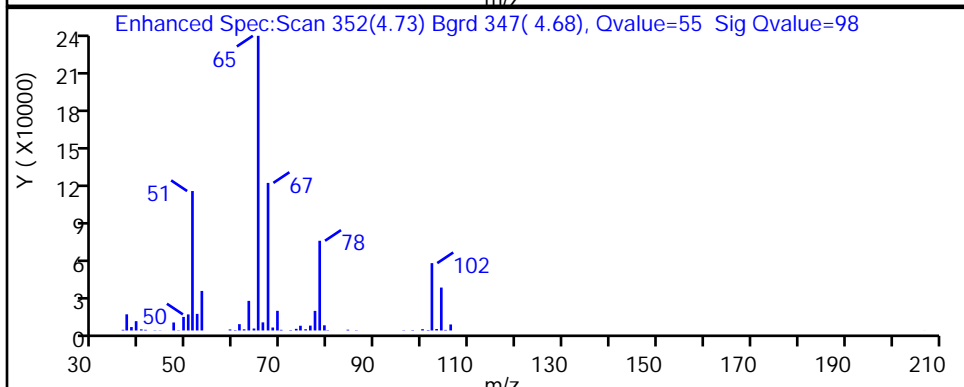
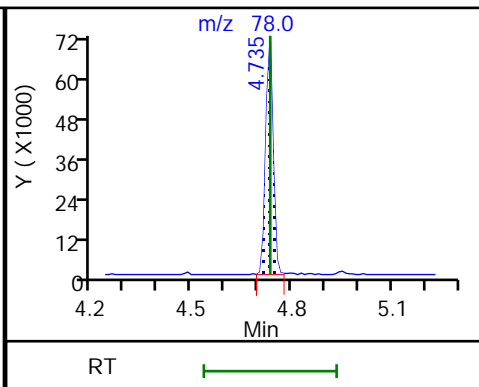
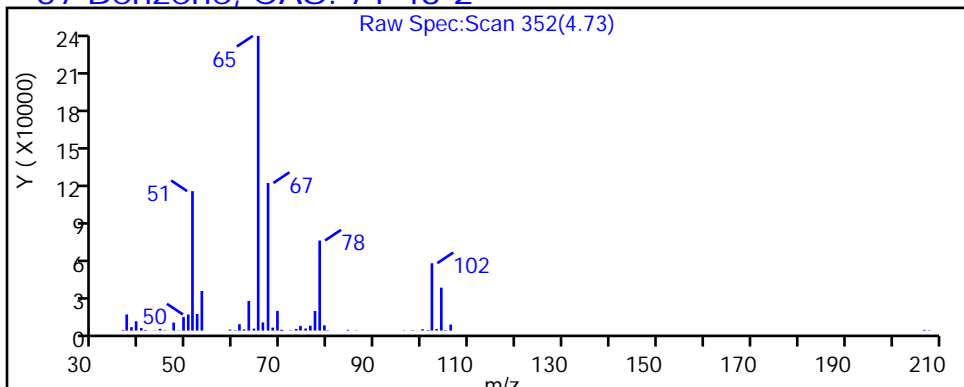
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

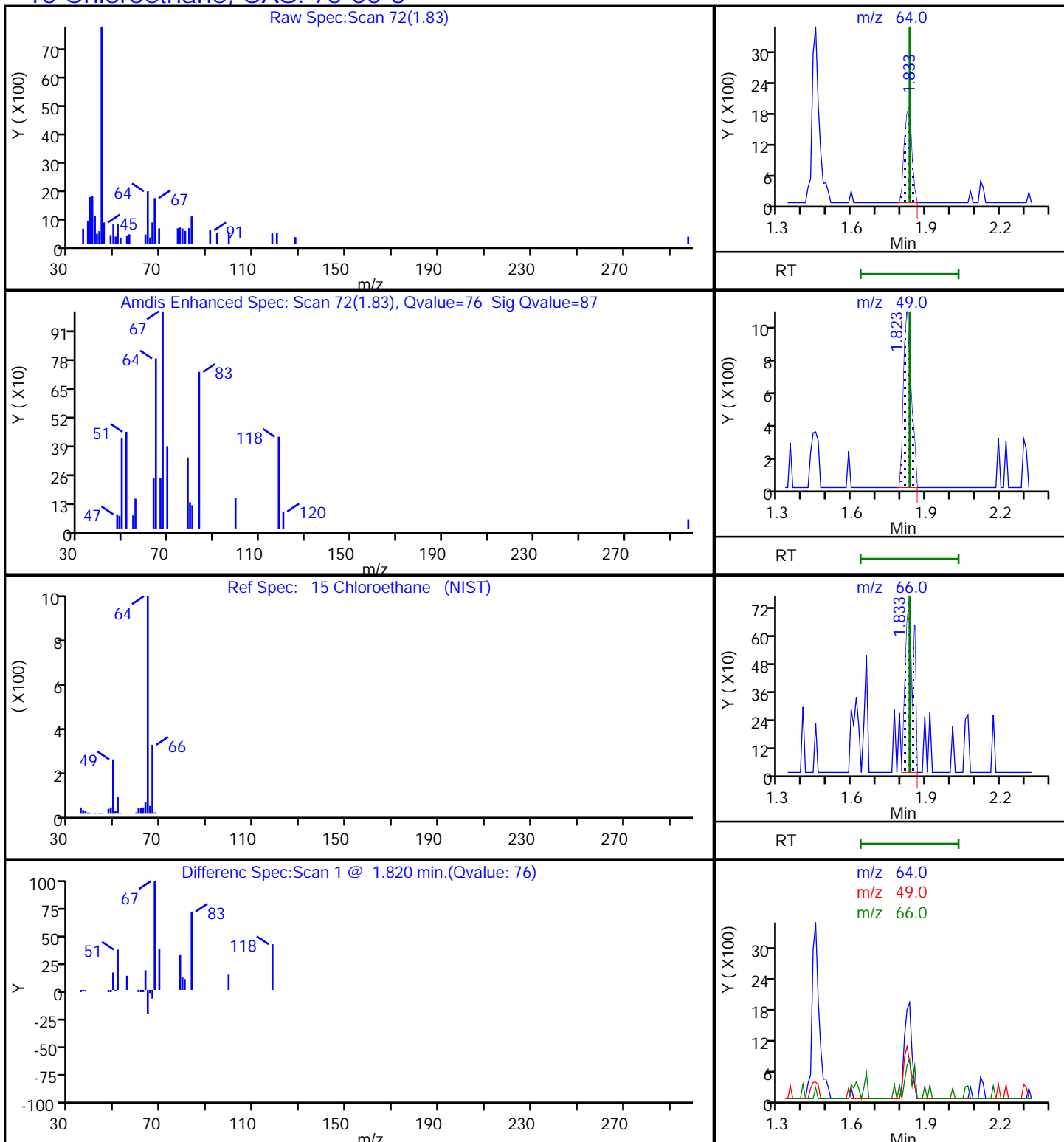
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

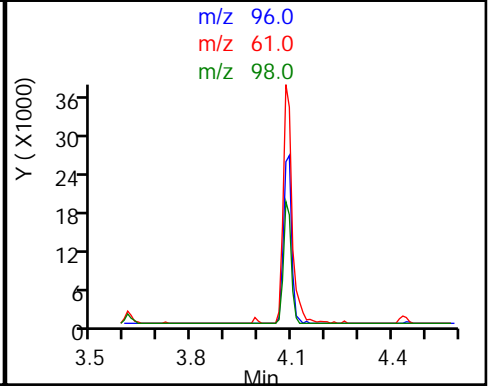
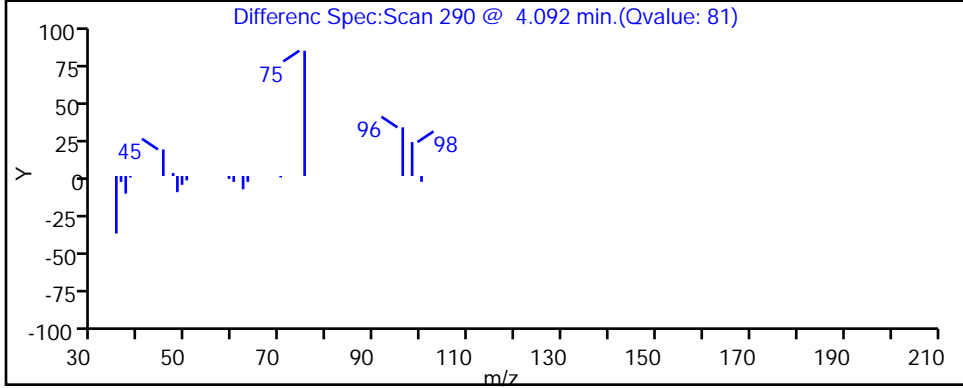
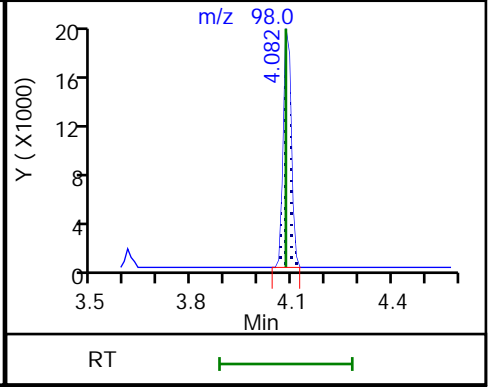
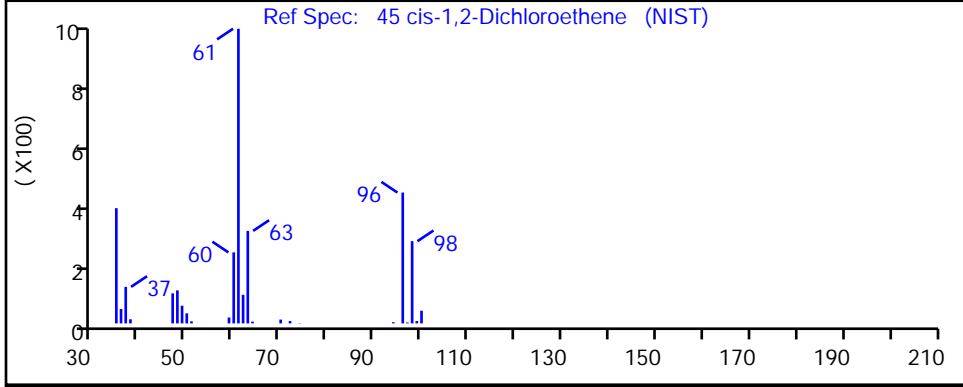
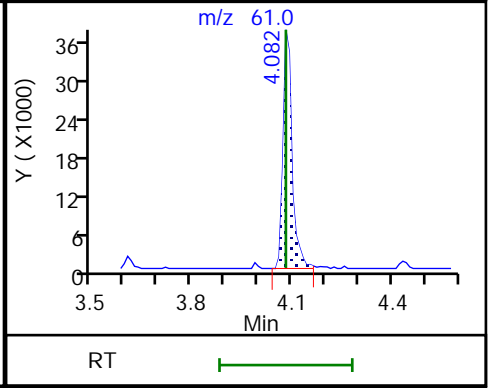
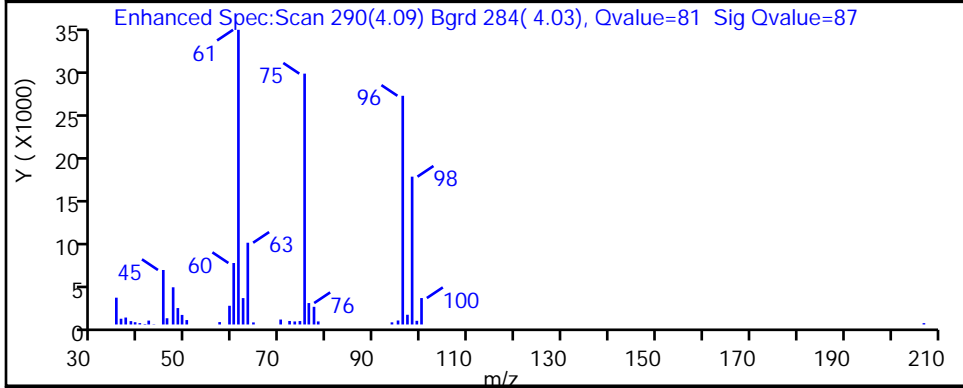
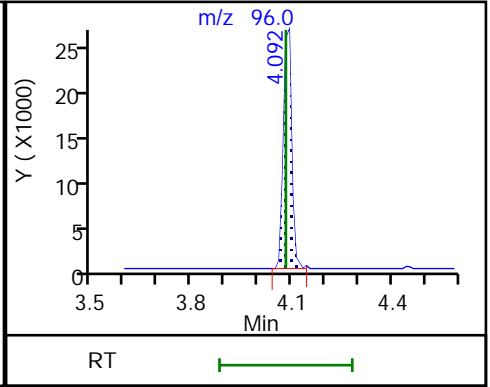
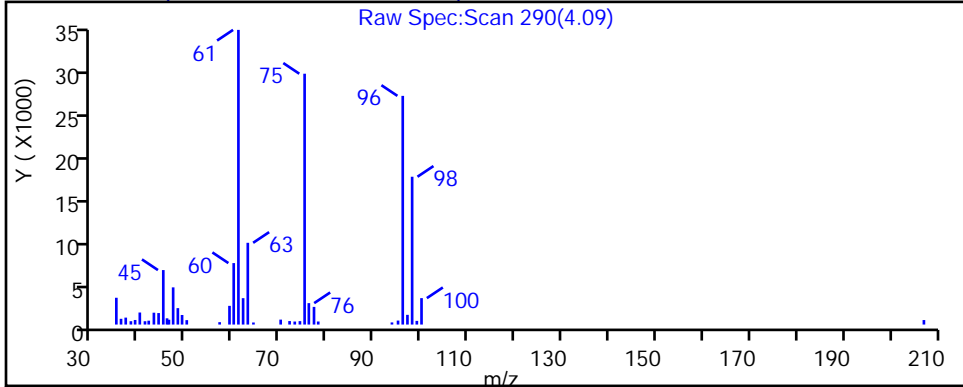
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

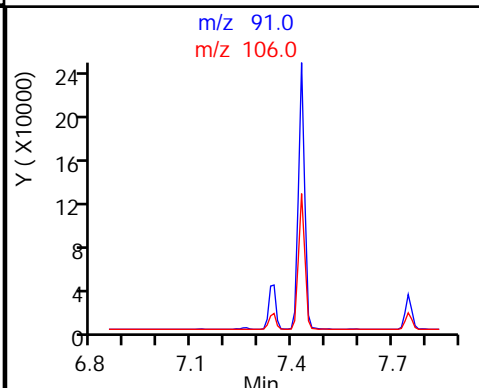
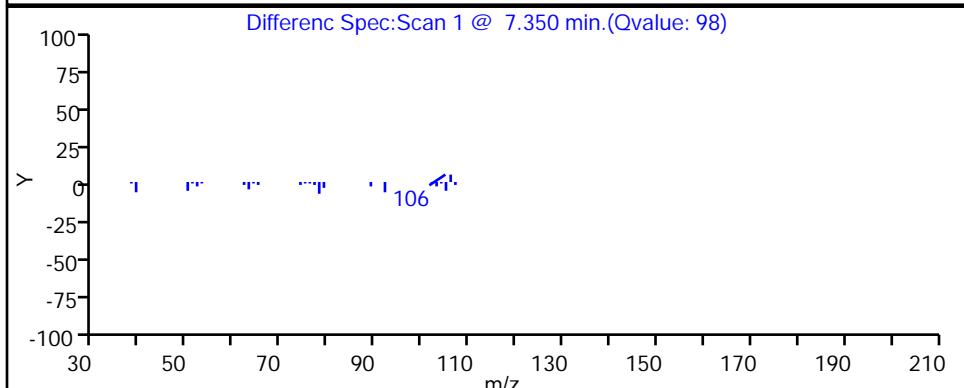
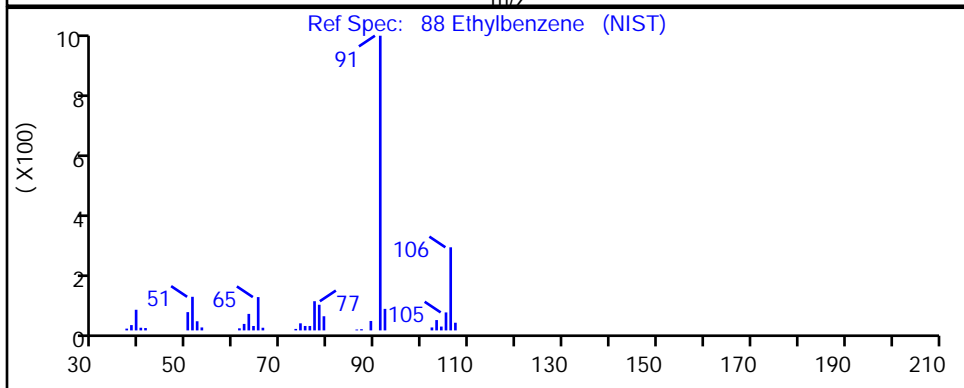
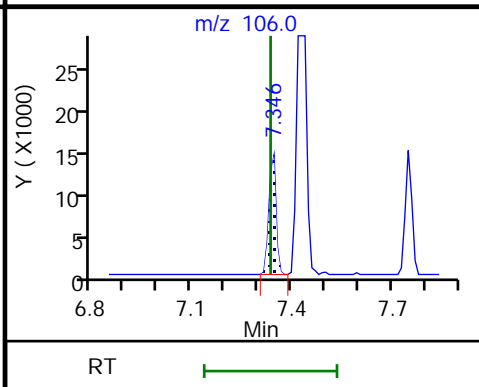
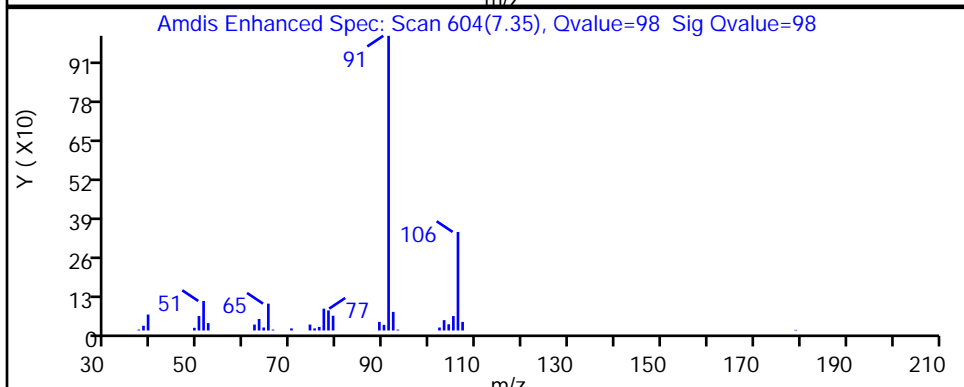
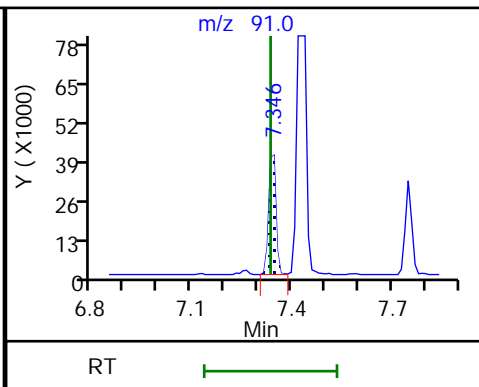
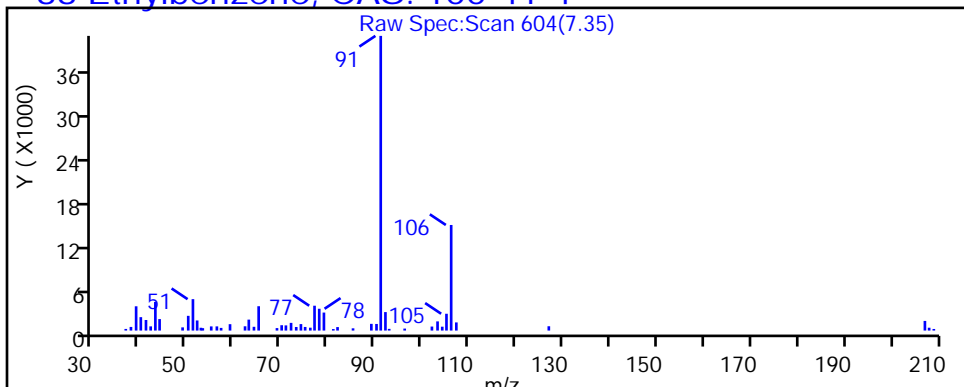
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

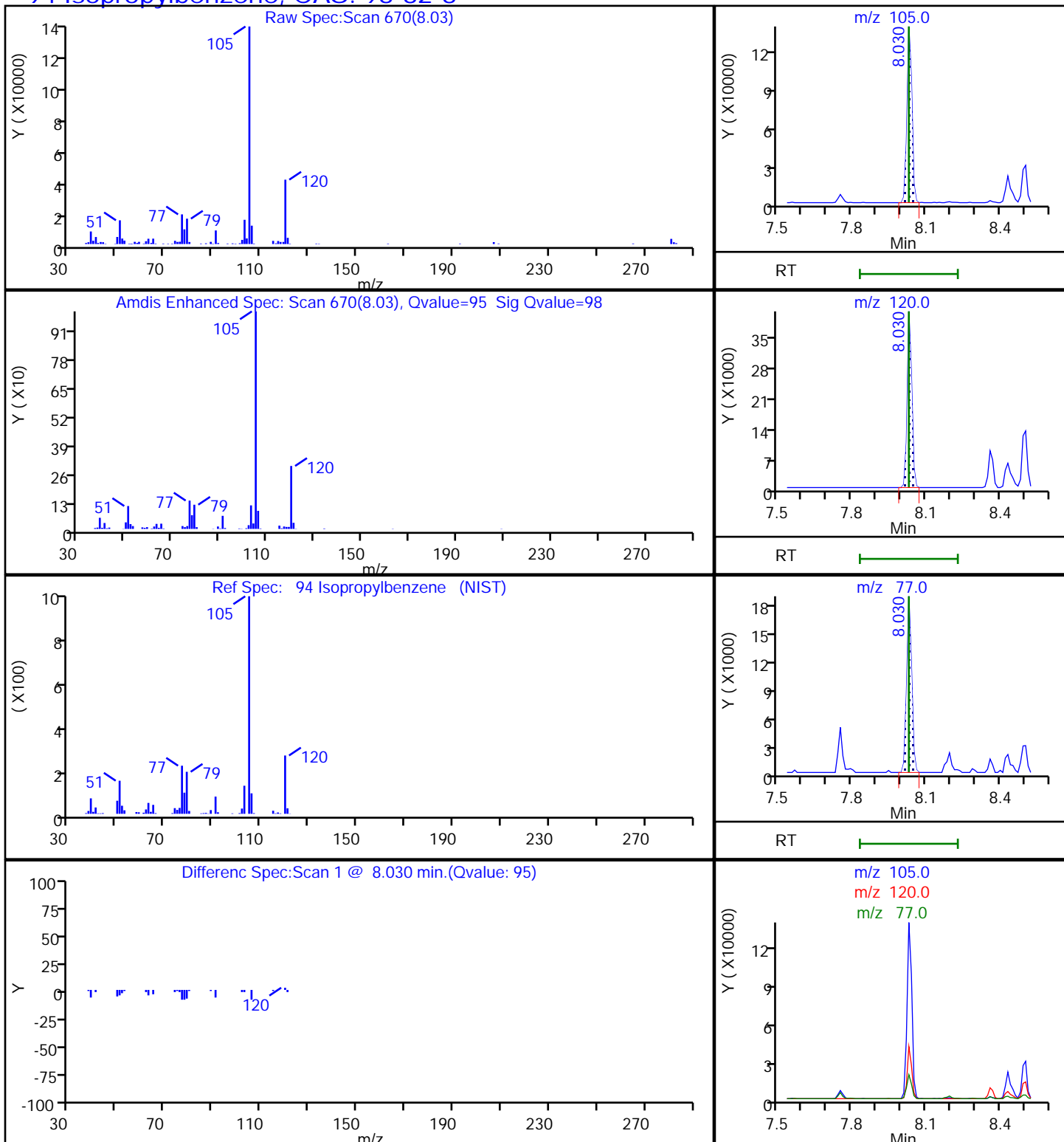
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

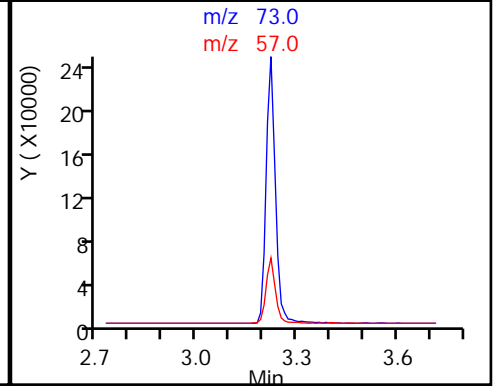
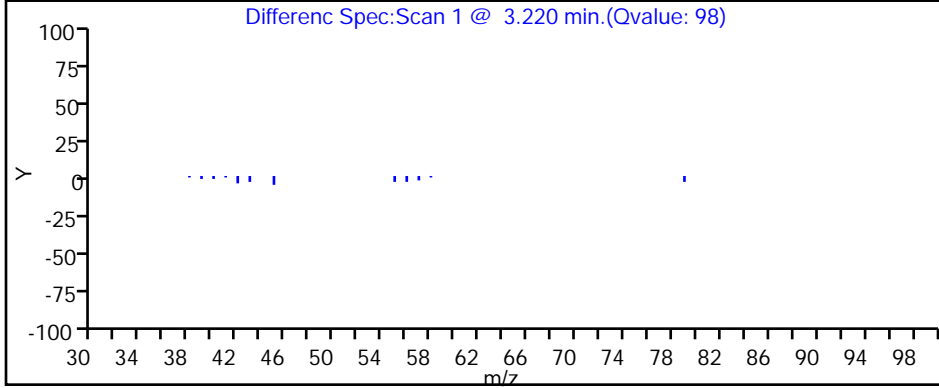
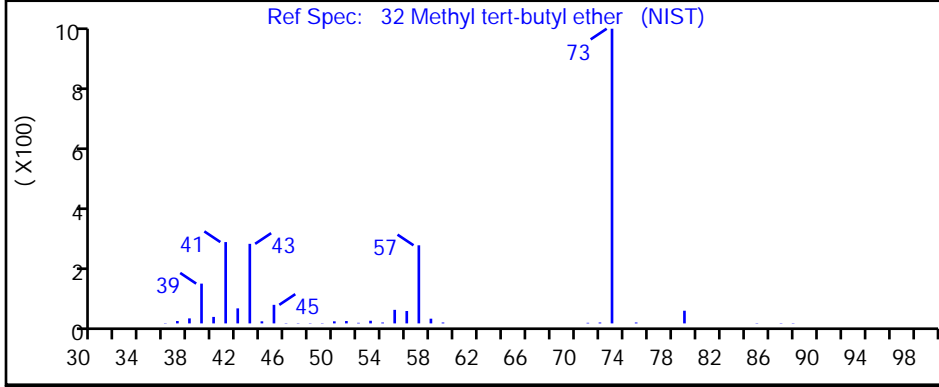
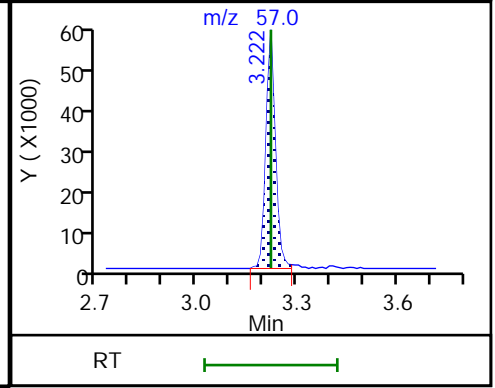
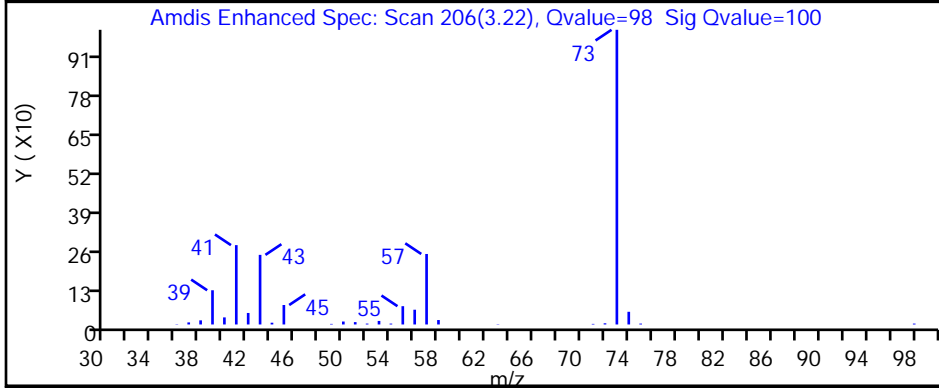
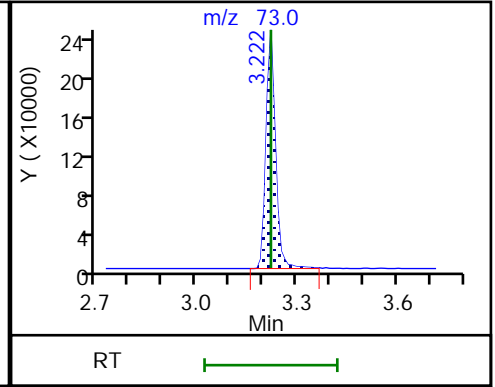
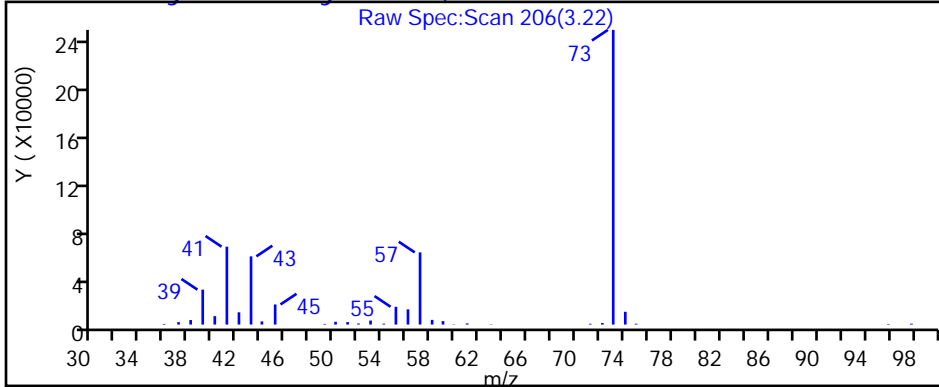
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

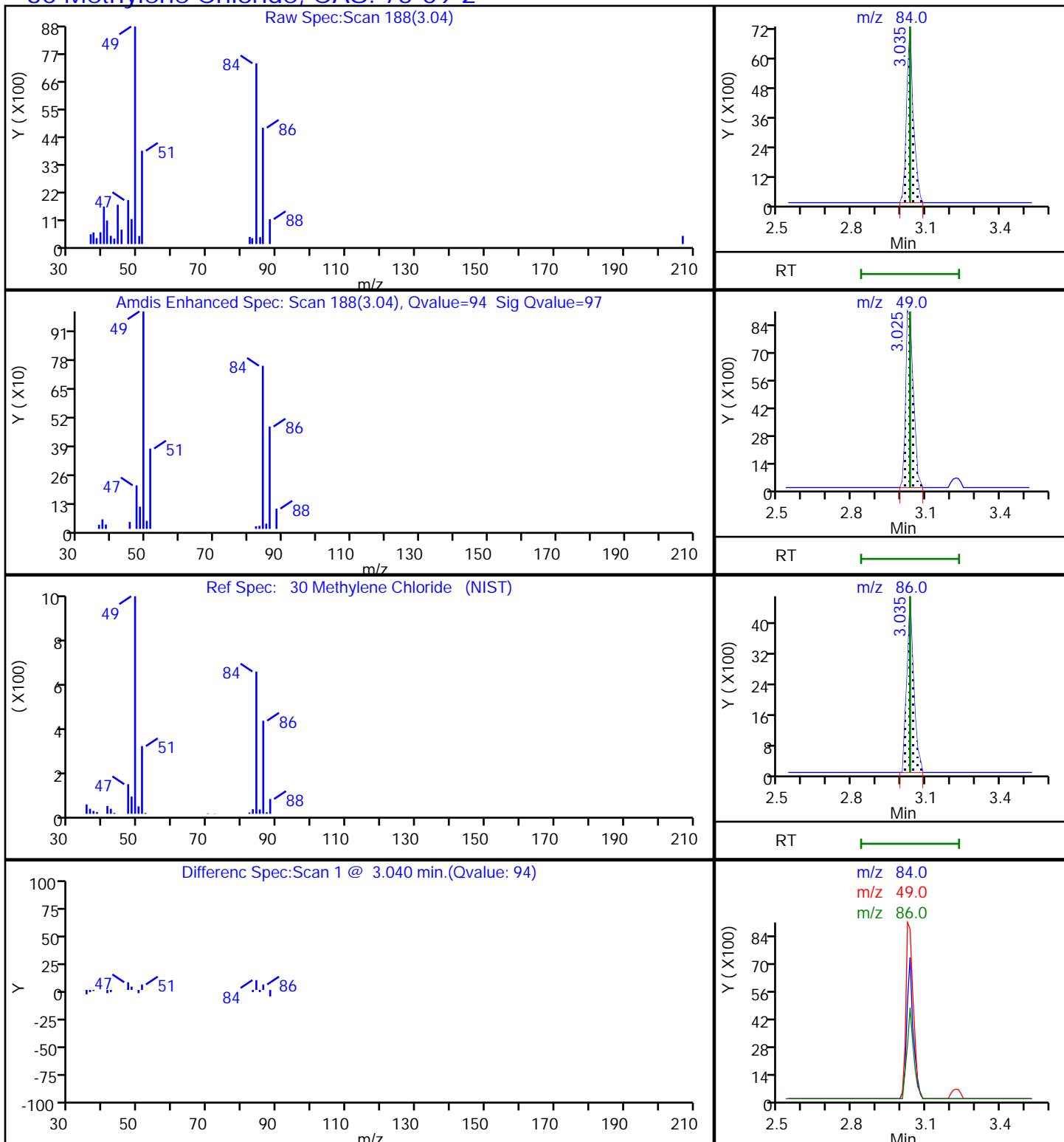
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

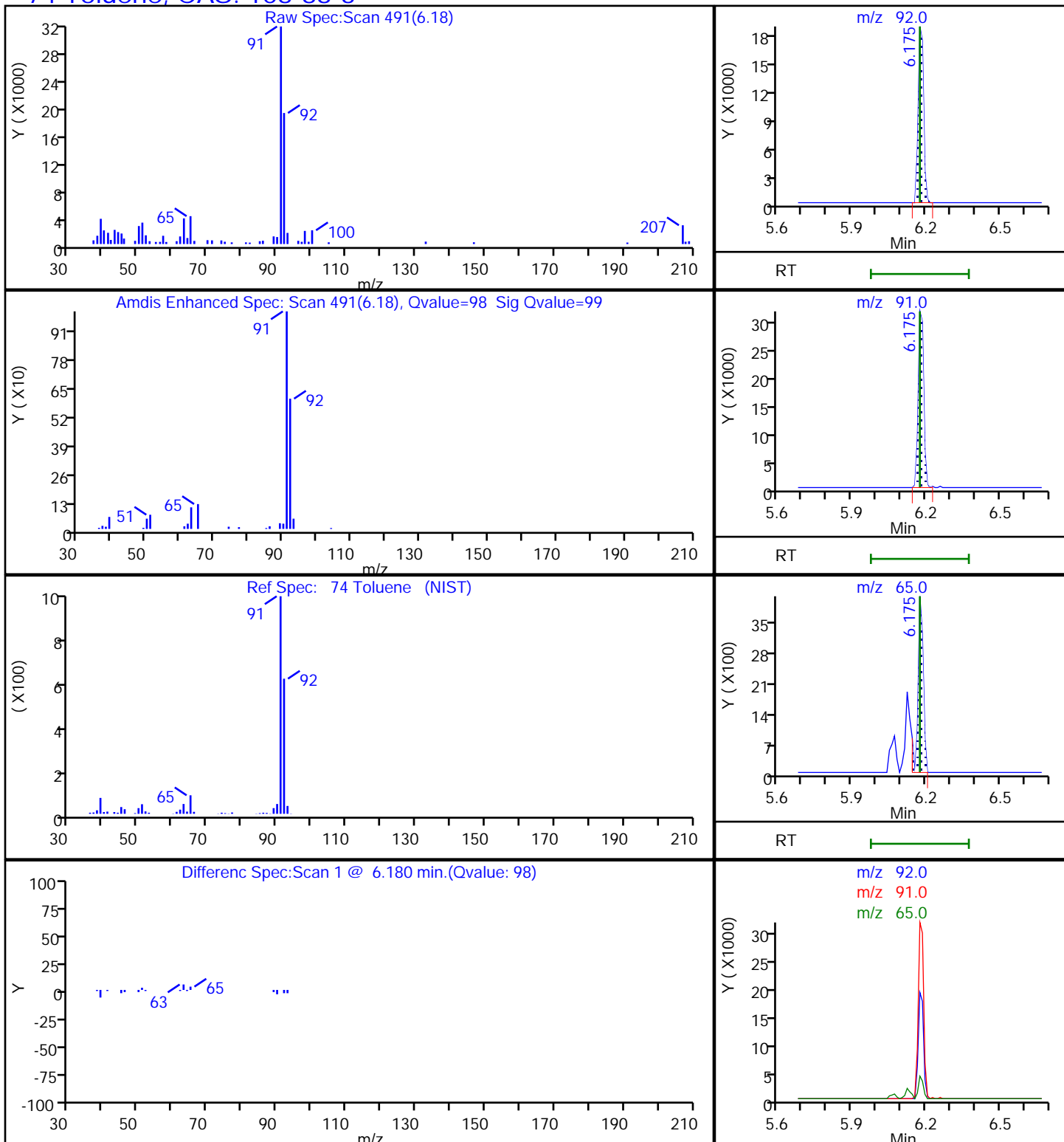
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

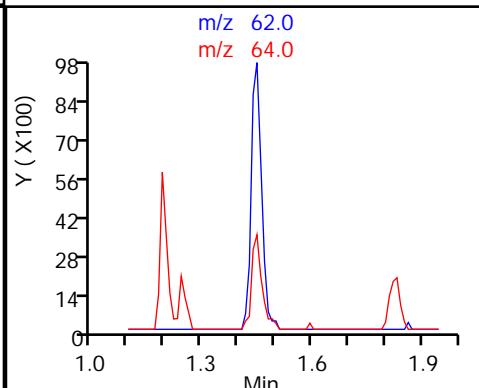
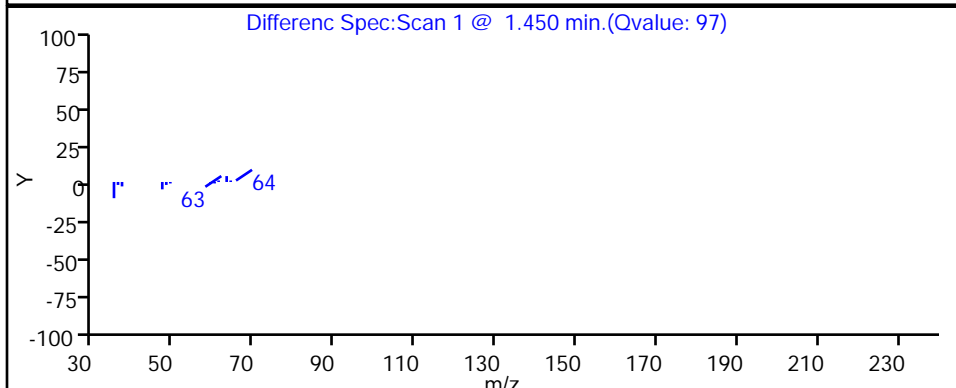
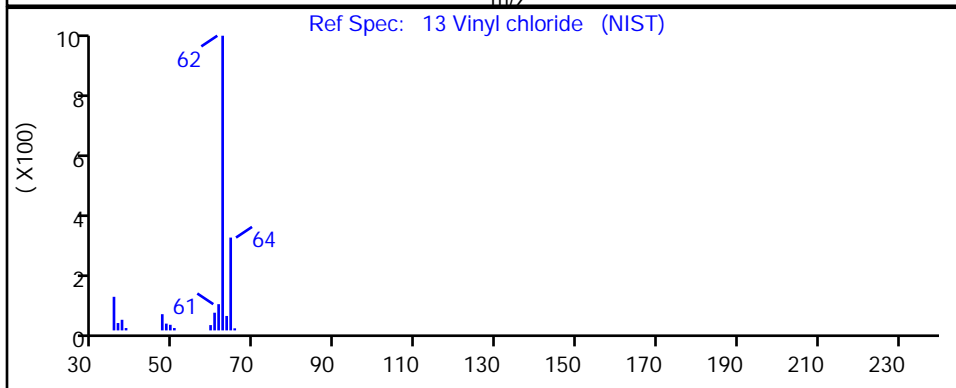
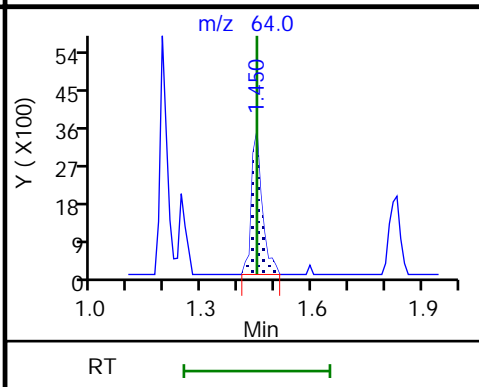
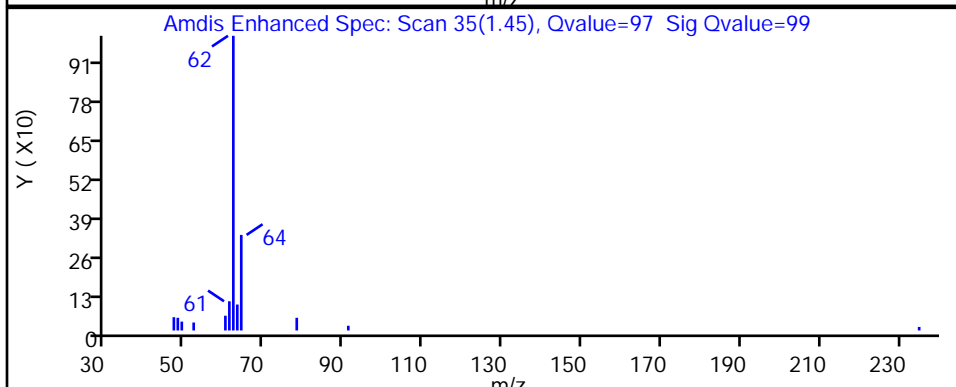
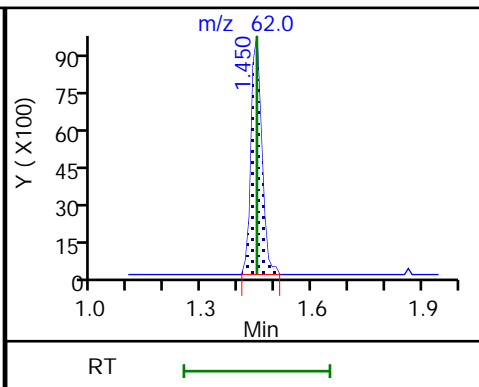
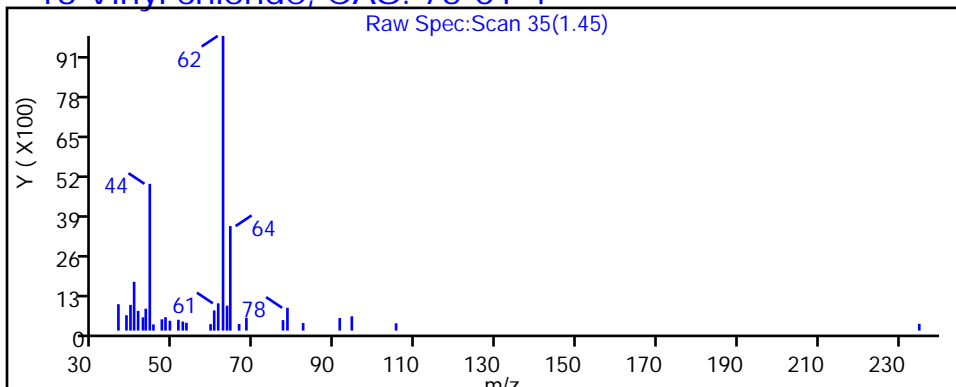
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

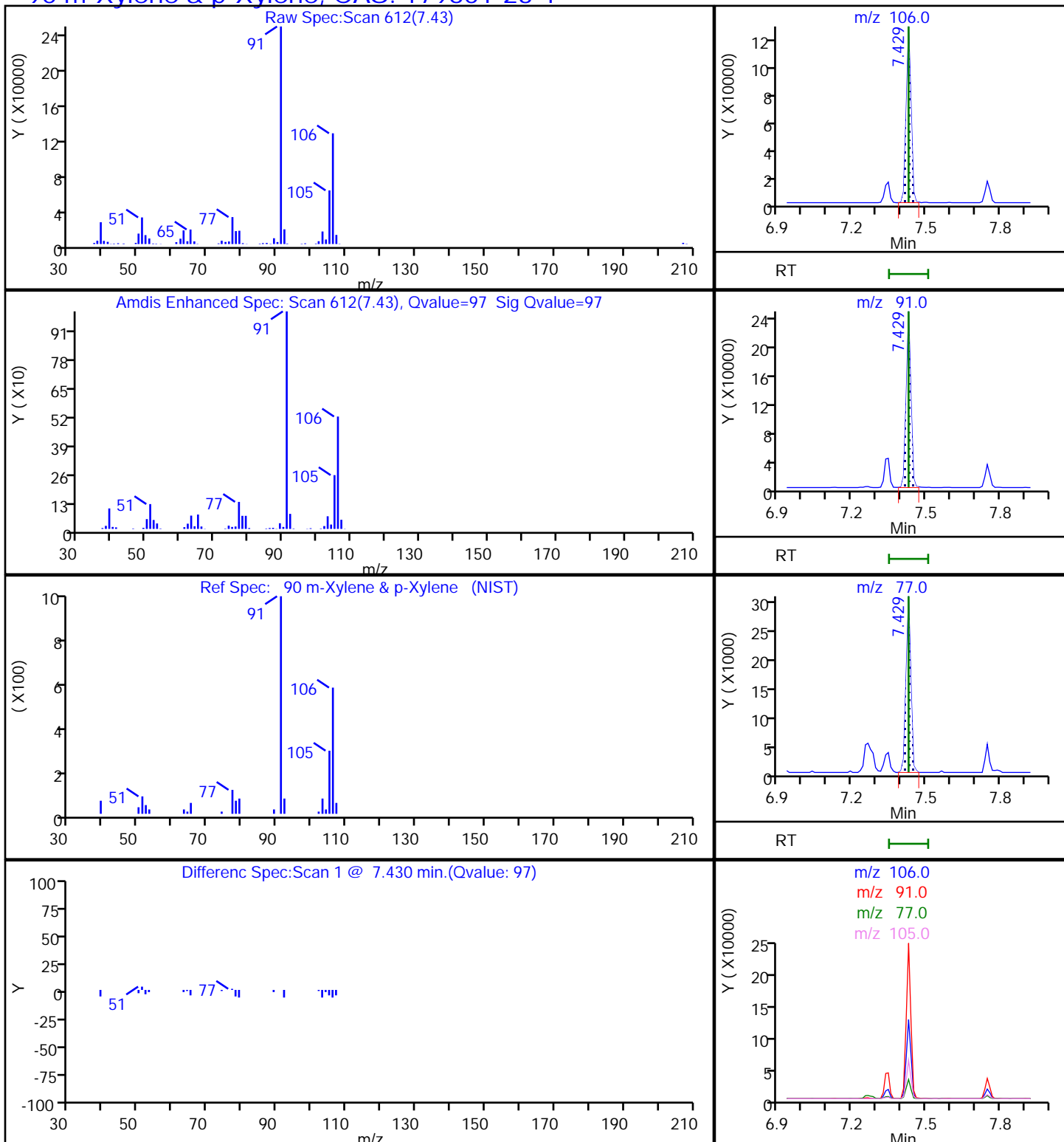
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

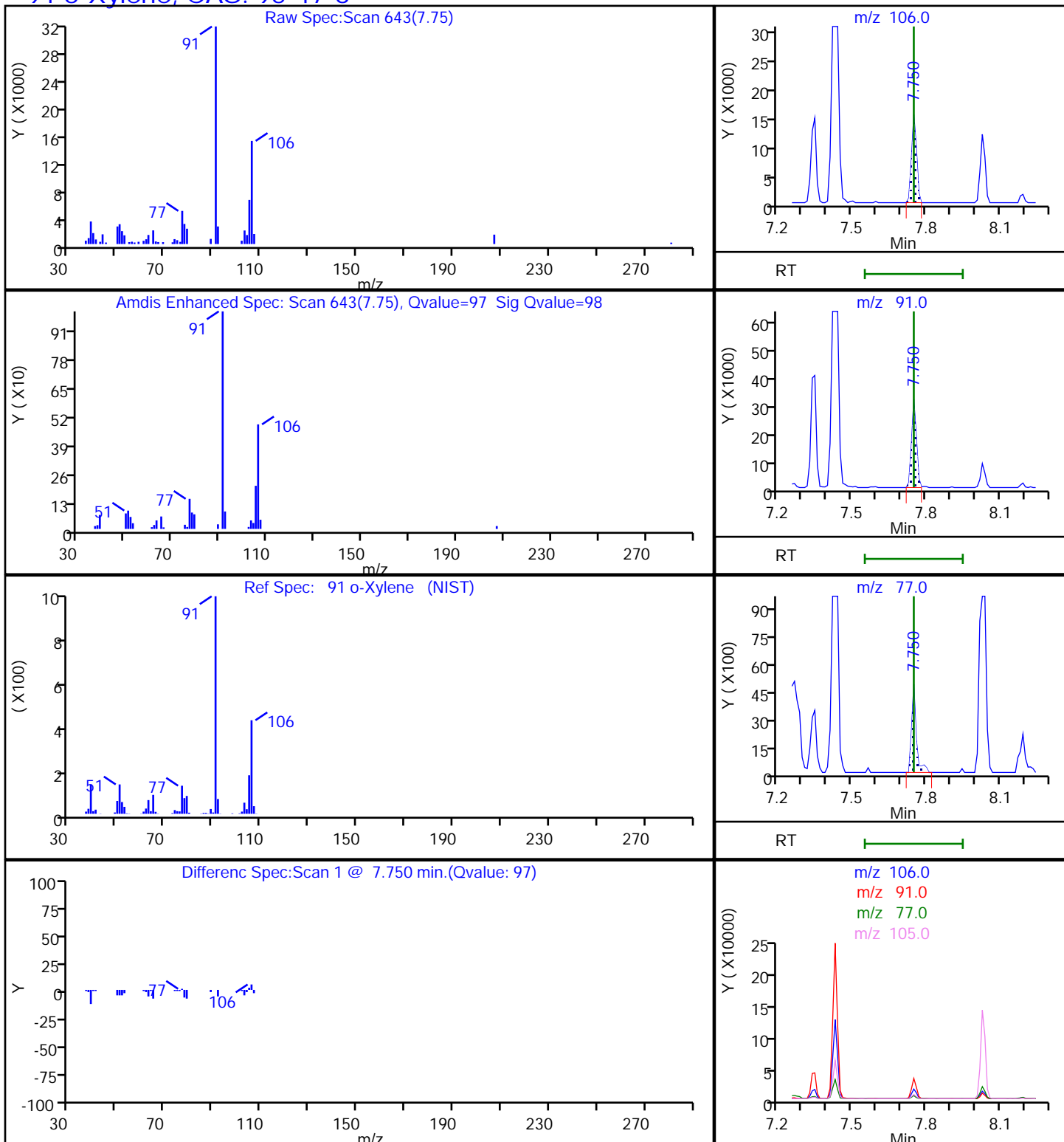
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

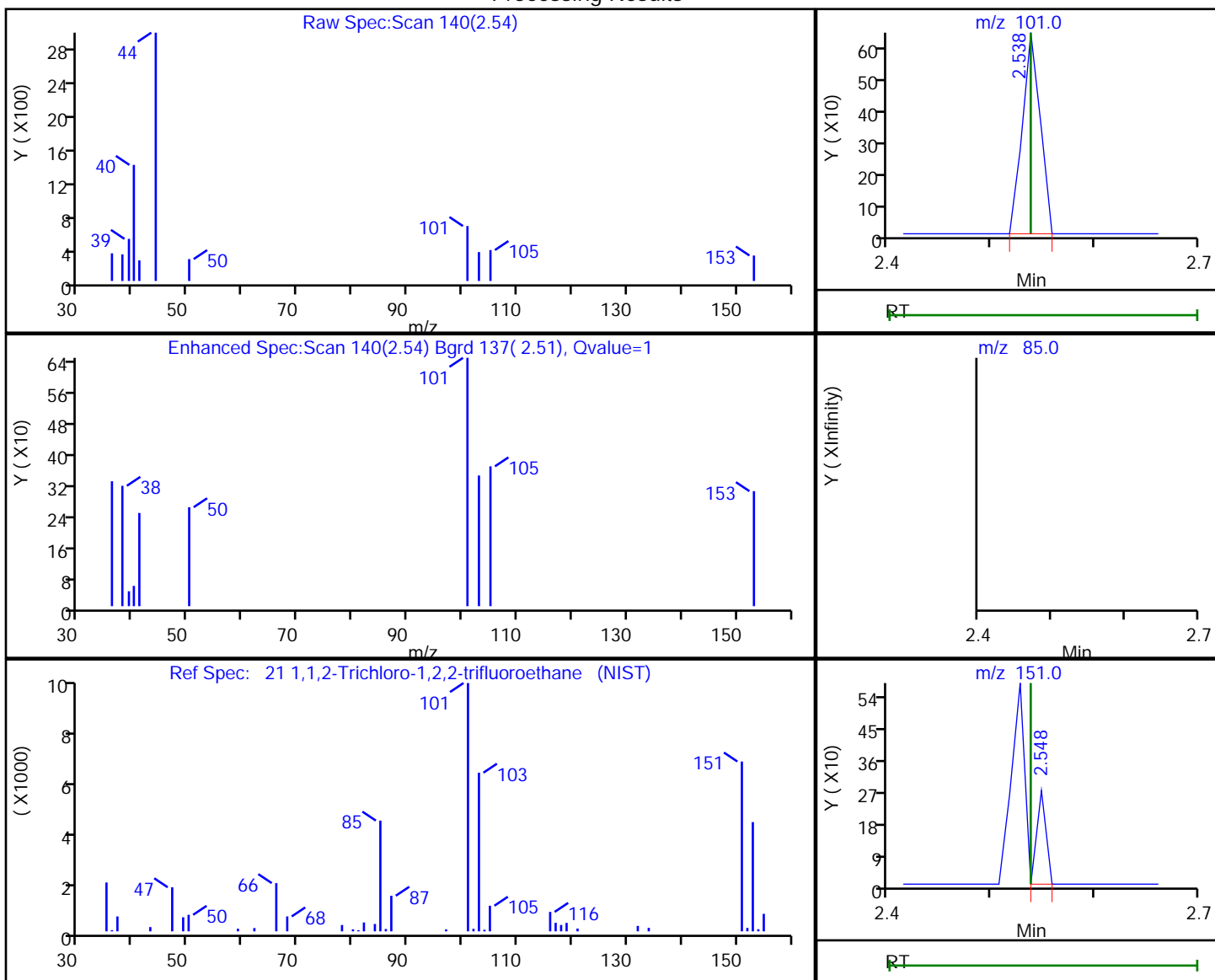
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.54	101.00	783	0.083020
2.55	151.00	167	
2.54	85.00	0	

Reviewer: izquierdoo, 02-Mar-2019 13:13:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

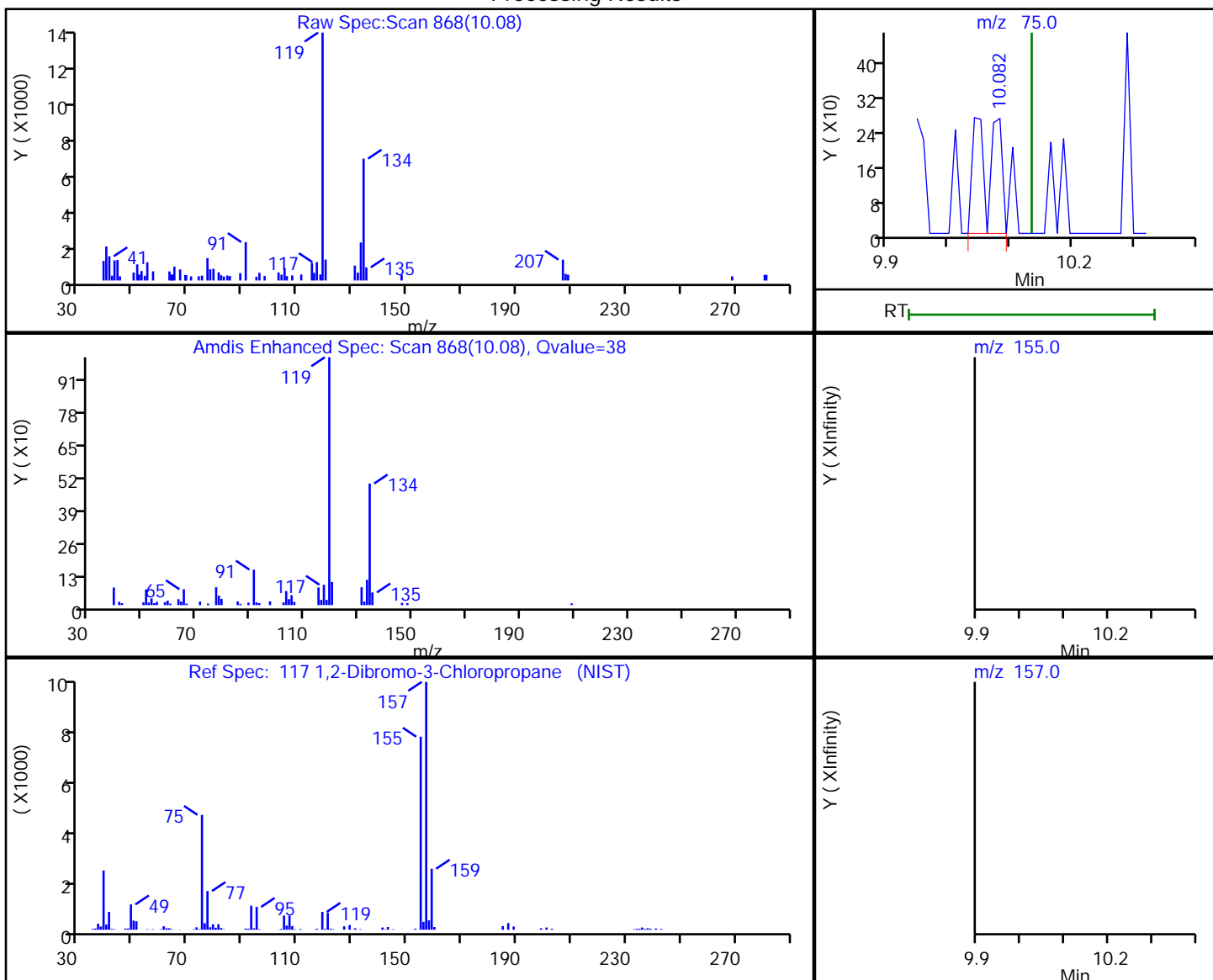
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
10.08	75.00	663	0.217991
10.13	155.00	0	
10.13	157.00	0	

Reviewer: izquierdoo, 02-Mar-2019 13:15:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

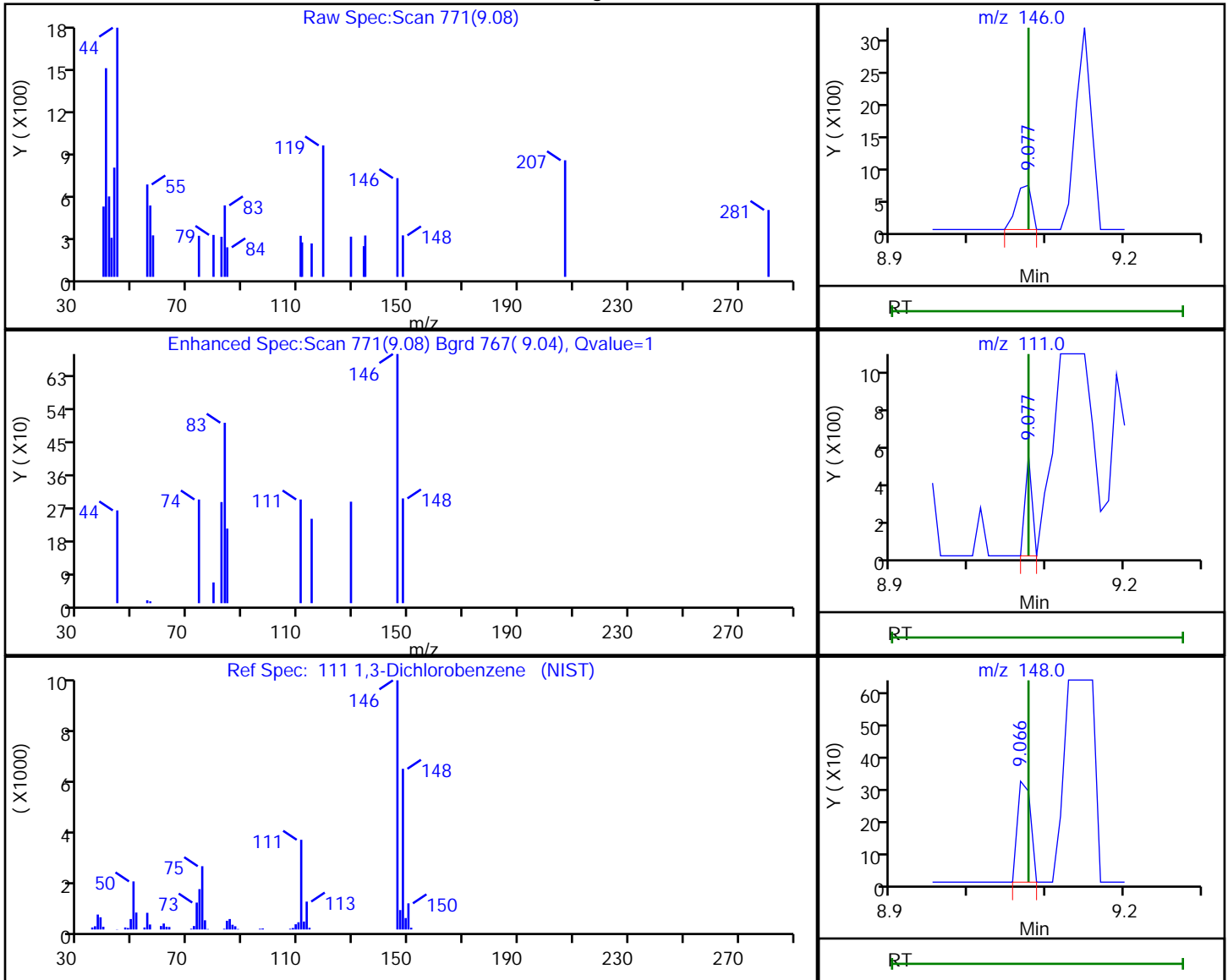
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.08	146.00	951	0.027483
9.08	111.00	326	
9.07	148.00	378	

Reviewer: izquierdoo, 02-Mar-2019 13:15:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

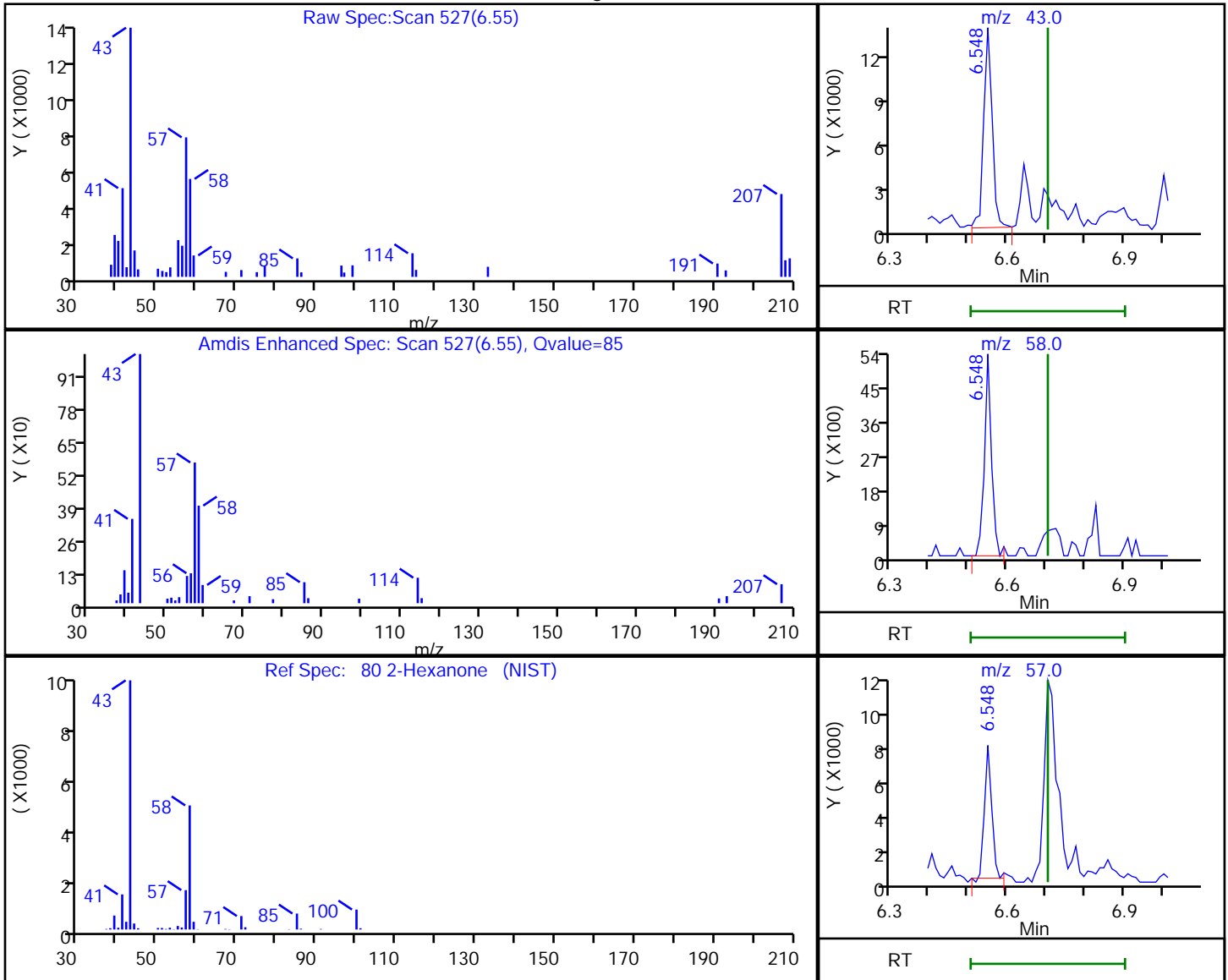
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.55	43.00	20446	1.978090
6.55	58.00	6965	
6.55	57.00	9794	

Reviewer: izquierdoo, 02-Mar-2019 13:14:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

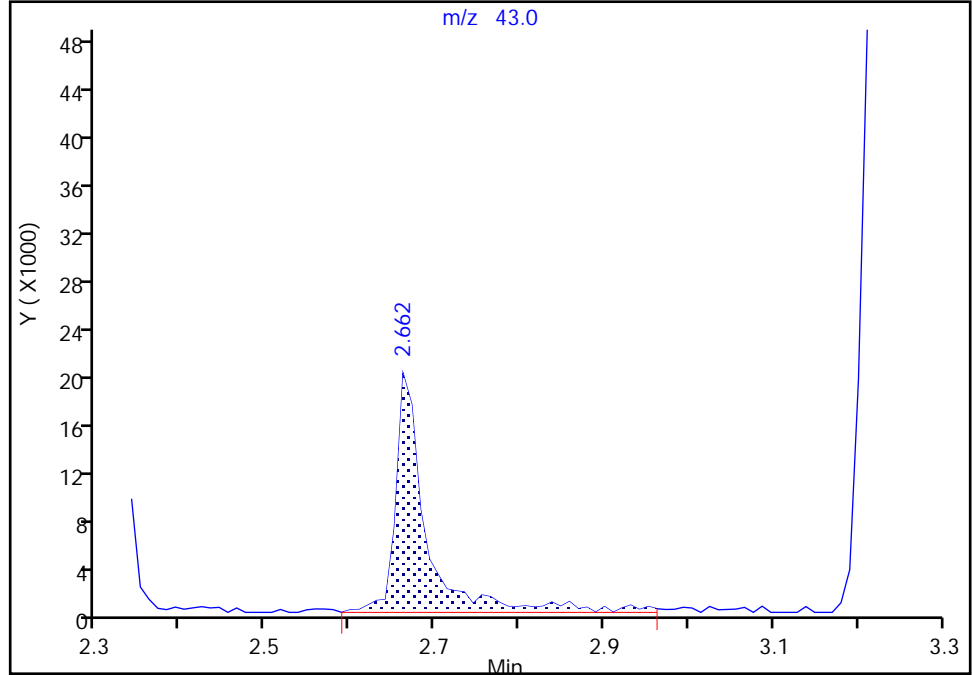
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D
Injection Date: 02-Mar-2019 05:15:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-7 Lab Sample ID: 480-149618-7
Client ID: LAB-SBW-16
Operator ID: NC ALS Bottle#: 19 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

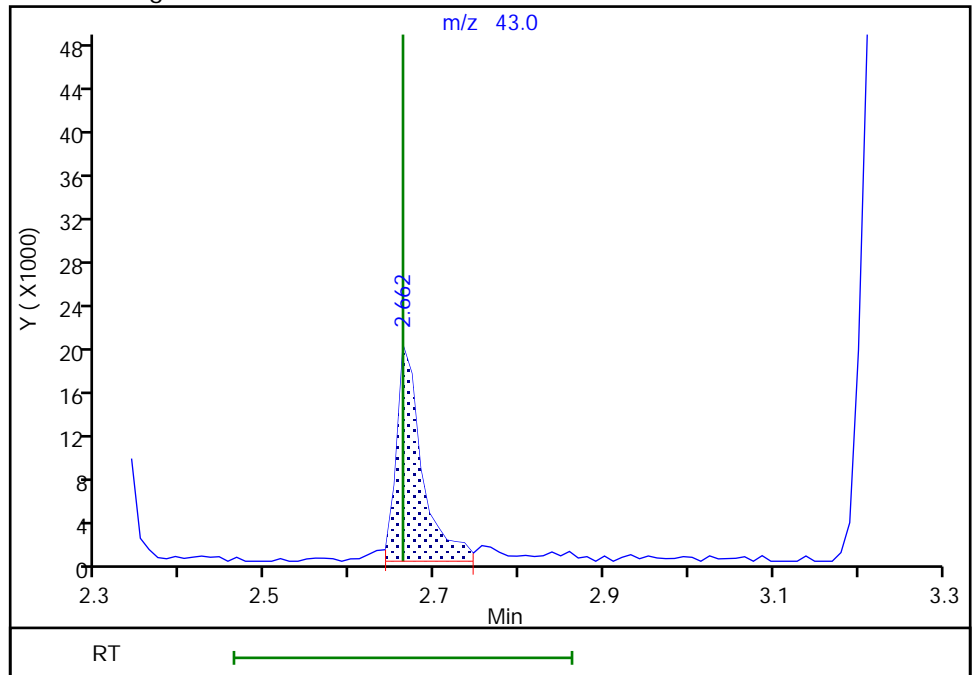
RT: 2.66
Area: 50408
Amount: 9.658070
Amount Units: ug/L

Processing Integration Results



RT: 2.66
Area: 41985
Amount: 8.044240
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:13:46
Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: C-8260

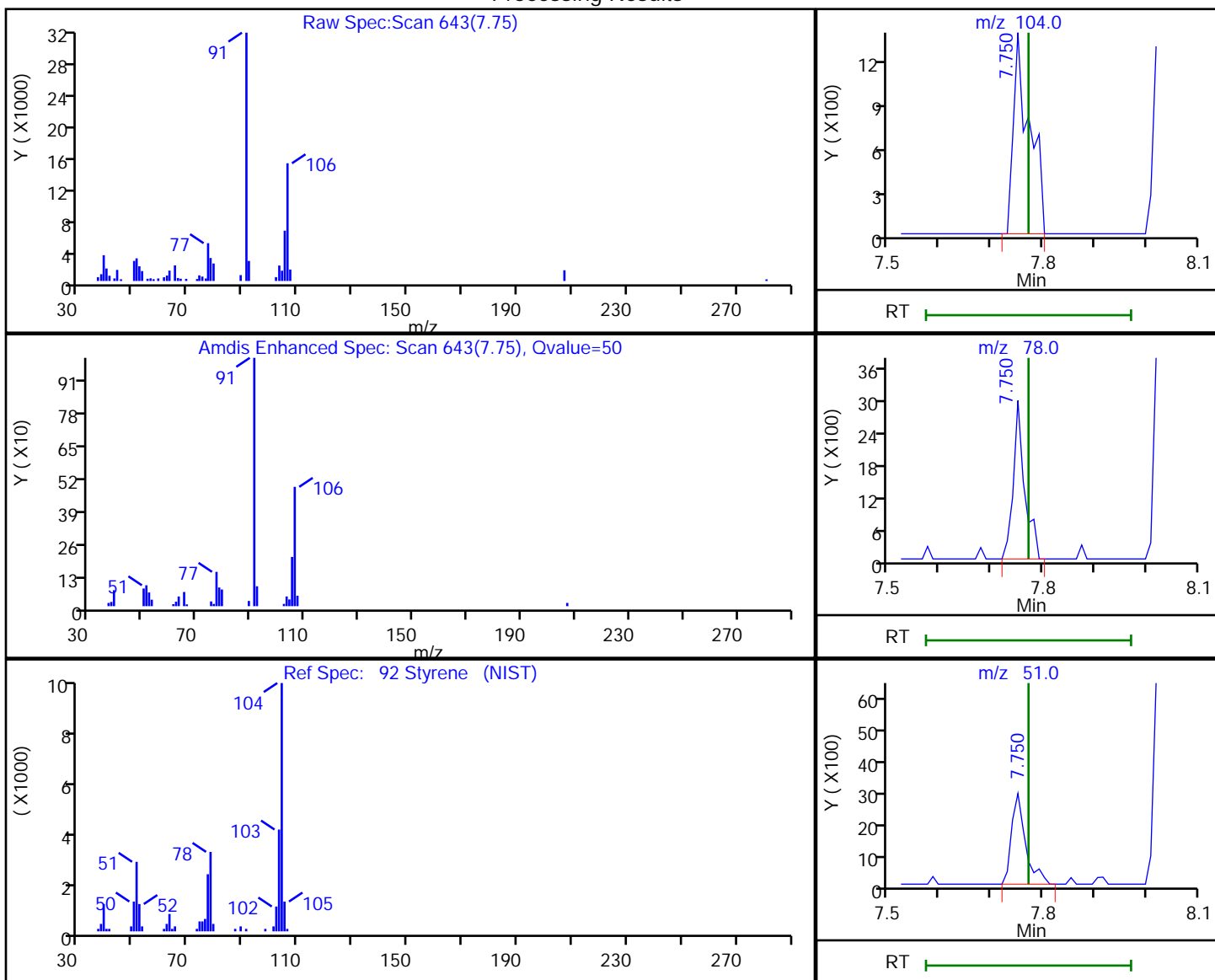
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.75	104.00	2833	0.076476
7.75	78.00	4498	
7.75	51.00	5502	

Reviewer: izquierdoo, 02-Mar-2019 13:15:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

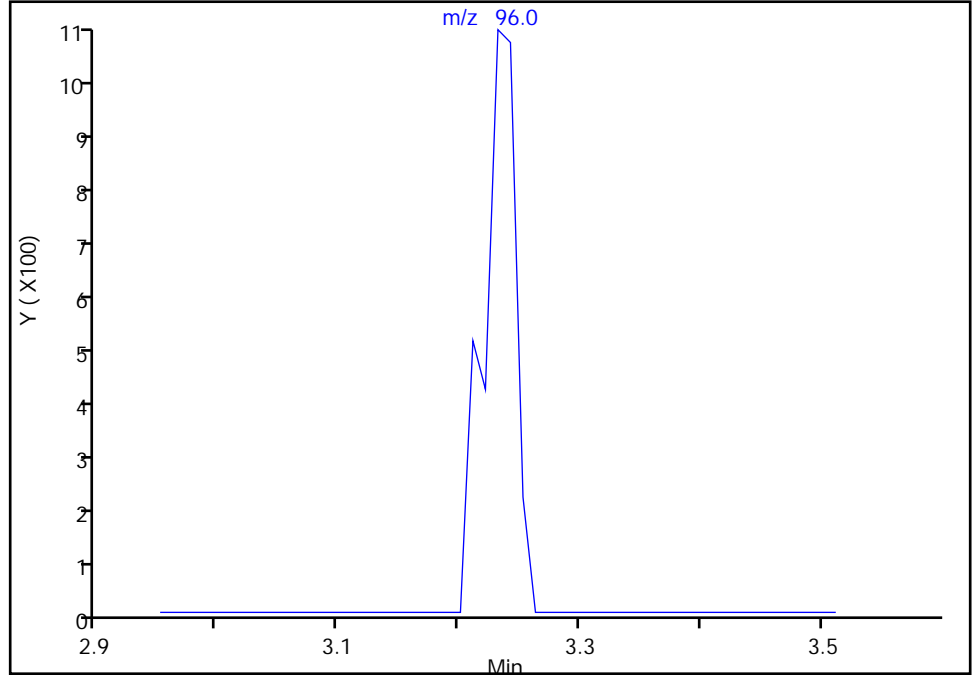
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D
Injection Date: 02-Mar-2019 05:15:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-7 Lab Sample ID: 480-149618-7
Client ID: LAB-SBW-16
Operator ID: NC ALS Bottle#: 19 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

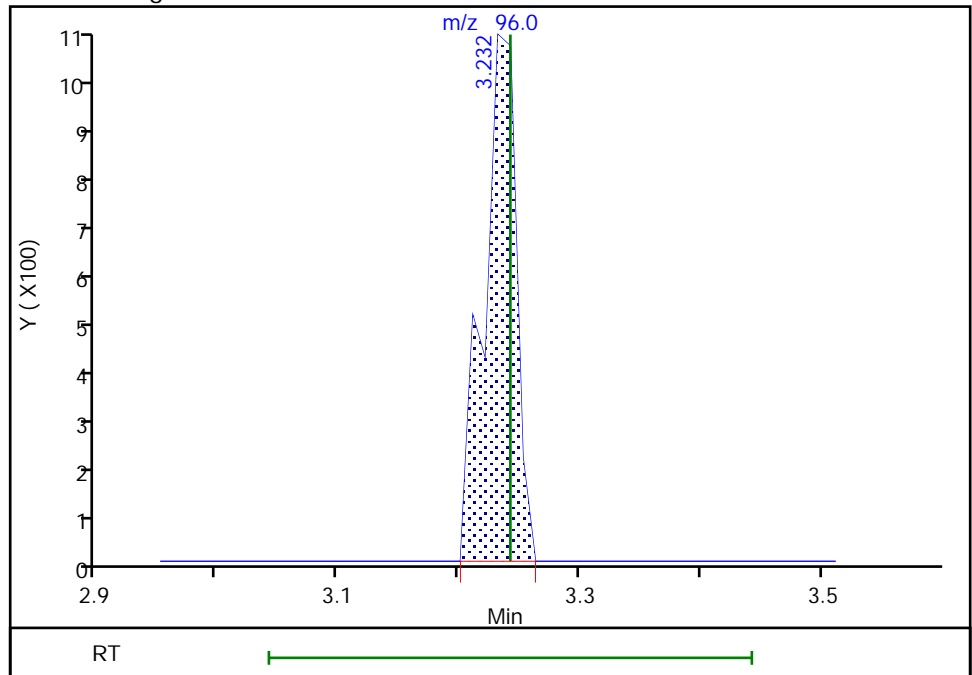
Not Detected
Expected RT: 3.24

Processing Integration Results



Manual Integration Results

RT: 3.23
Area: 2053
Amount: 0.164456
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:14:05
Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5018.D

Injection Date: 02-Mar-2019 05:15:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-7

Lab Sample ID: 480-149618-7

Client ID: LAB-SBW-16

Operator ID: NC

ALS Bottle#: 19 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

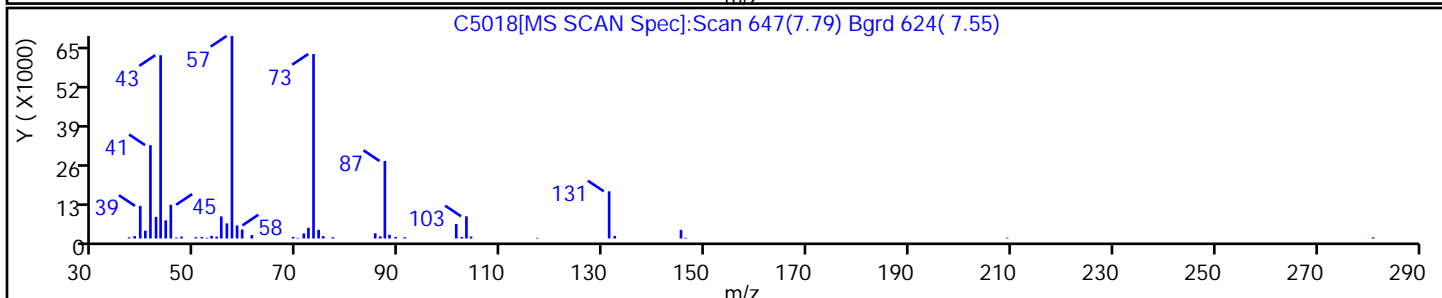
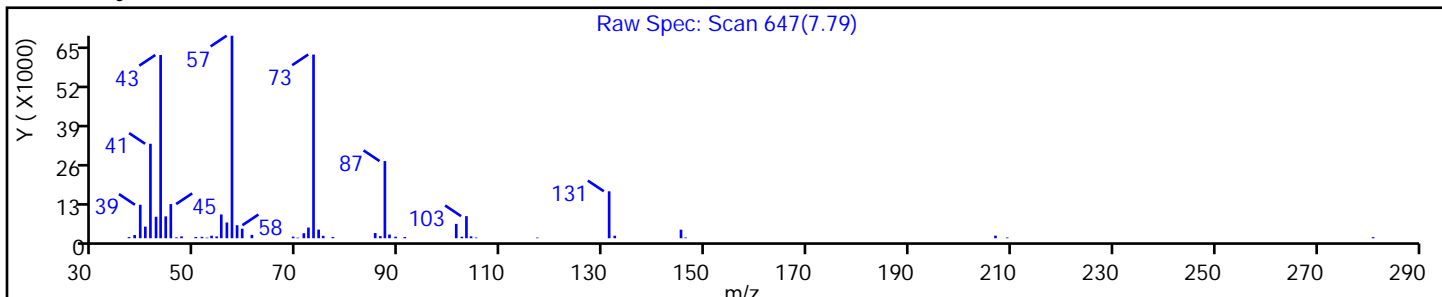
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 Lab Sample ID: 480-149618-8
 Matrix: Water Lab File ID: C5019.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	3.7	J	4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND	*	40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	4.3		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND	F1 *	4.0	1.3
75-00-3	Chloroethane	69		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	ND		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 Lab Sample ID: 480-149618-8
 Matrix: Water Lab File ID: C5019.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	1.6	J	4.0	0.64
108-87-2	Methylcyclohexane	2.6	J	4.0	0.64
75-09-2	Methylene Chloride	5.1		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	2.3	J	4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	5.6	J	8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 Lab Sample ID: 480-149618-8
 Matrix: Water Lab File ID: C5019.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D
 Lims ID: 480-149618-B-8
 Client ID: LAB-SBW-15
 Sample Type: Client
 Inject. Date: 02-Mar-2019 05:42:30 ALS Bottle#: 20 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-149618-B-8
 Misc. Info.: 480-0079070-023
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:35:31 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 13:35:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	201412	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	87	435677	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	94	494261	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	93	299645	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	97	183824	26.0	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	93	1107212	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	95	373732	27.2	
10 Dichlorodifluoromethane	85		1.190				ND	
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.439	0.000	28	2236	0.1601	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.823	0.000	99	153133	17.4	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	9	912	0.0956	
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43	2.672	2.672	0.010	94	5578	1.06	Ma
26 Carbon disulfide	76		2.735				ND	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	96	16954	1.27	
32 Methyl tert-butyl ether	73	3.232	3.222	0.010	98	14466	0.3997	
34 trans-1,2-Dichloroethene	96	3.232	3.232	-0.010	41	2177	0.1724	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	21020	0.9226	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	84	3362	0.2230	
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83	4.351	4.351	0.000	35	2382	0.1039	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.001	83	2323	0.1300	a
52 Cyclohexane	56	4.434	4.434	-0.010	74	2585	0.1364	a
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78	4.735	4.735	0.000	47	50479	1.07	
58 1,2-Dichloroethane	62	4.797	4.797	0.011	62	1670	0.0843	7a
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	94	10968	0.6558	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.061				ND	
74 Toluene	92	6.186	6.186	0.011	96	17688	0.5707	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.590				ND	
80 2-Hexanone	43		6.704				ND	
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112		7.284				ND	
88 Ethylbenzene	91	7.336	7.336	0.000	98	25239	0.4282	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	33327	1.41	
91 o-Xylene	106	7.750	7.750	0.000	97	13783	0.5494	
92 Styrene	104	7.761	7.761	-0.010	48	2086	0.0565	7a
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	31963	0.4727	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	Ua
113 1,4-Dichlorobenzene	146		9.149				ND	Ua
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	Ua
S 124 Xylenes, Total	1				0		1.95	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Worklist Smp#: 23

Client ID: LAB-SBW-15

Purge Vol: 5.000 mL

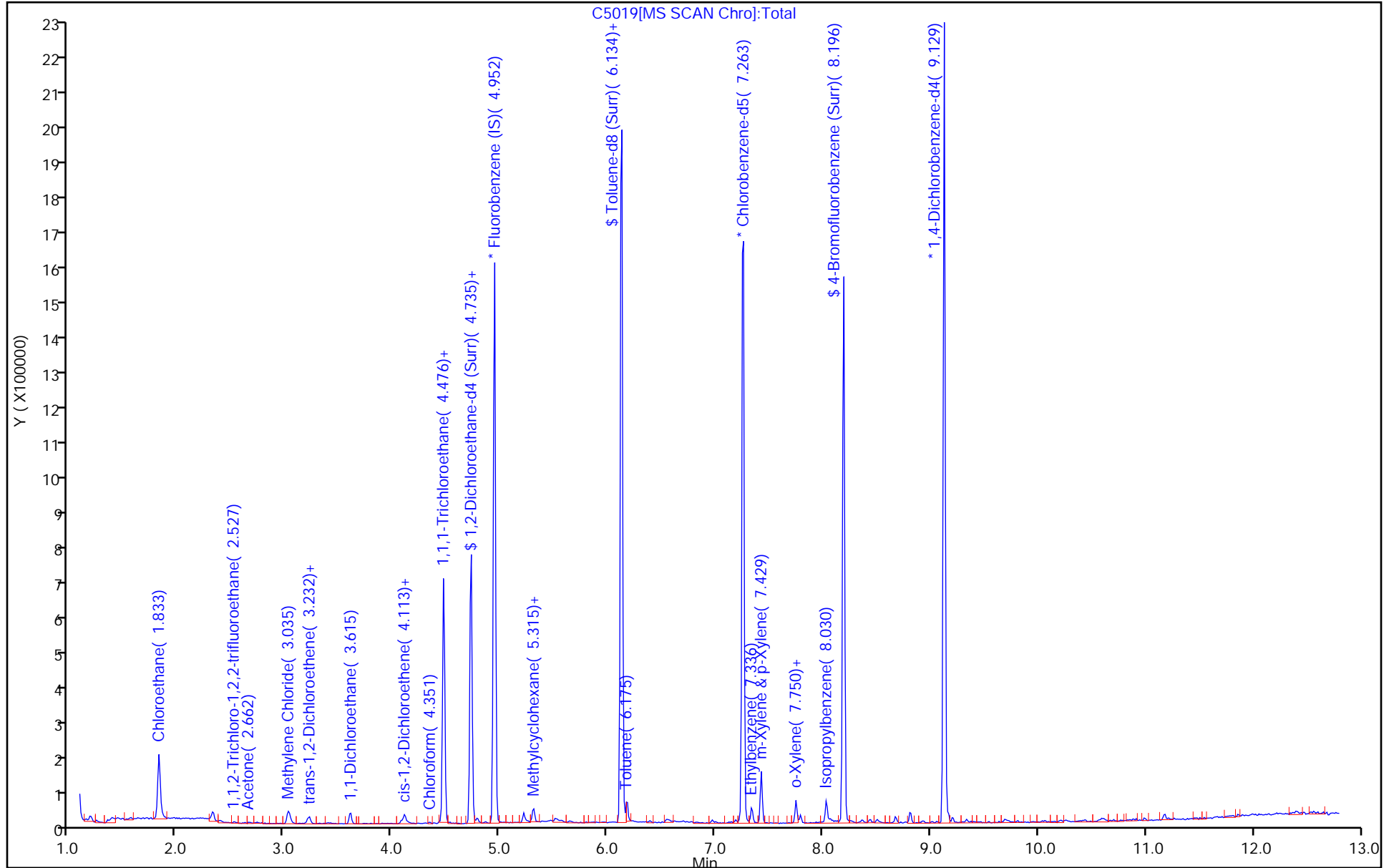
Dil. Factor: 4.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

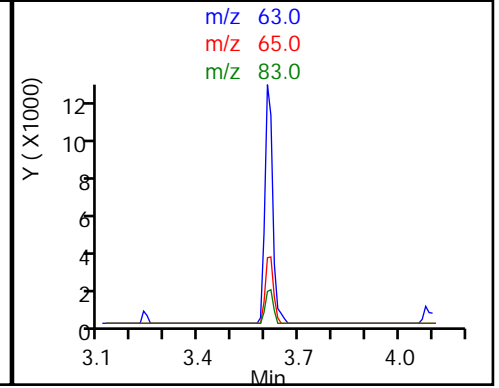
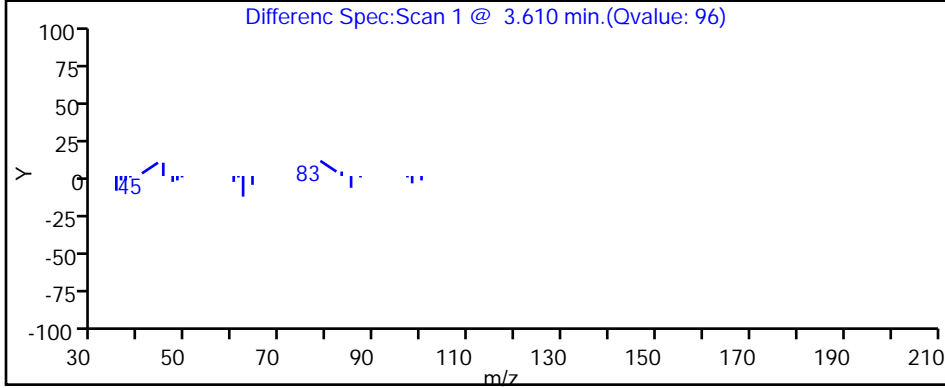
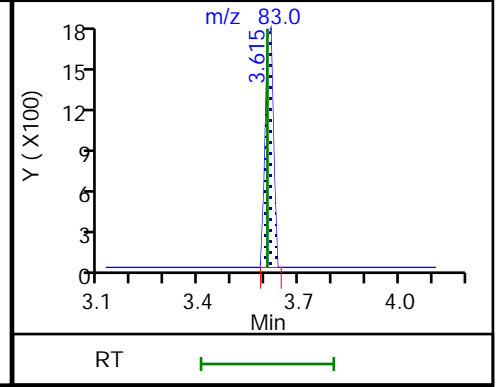
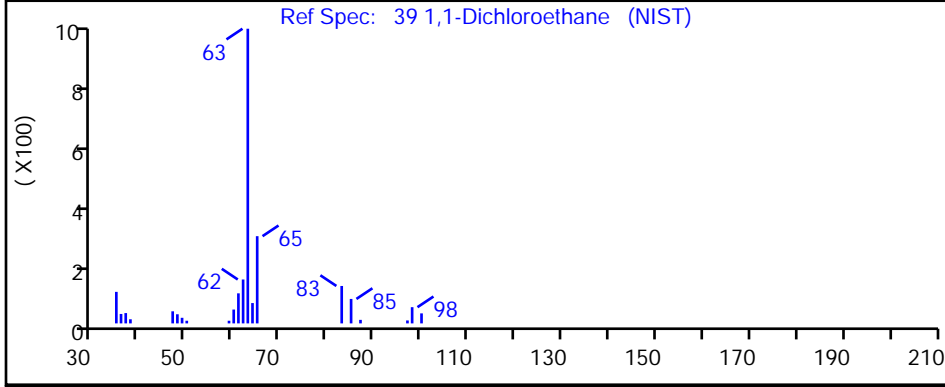
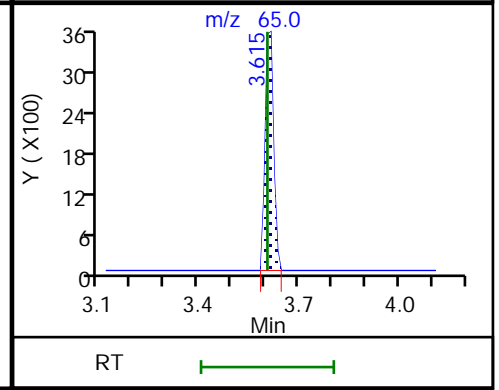
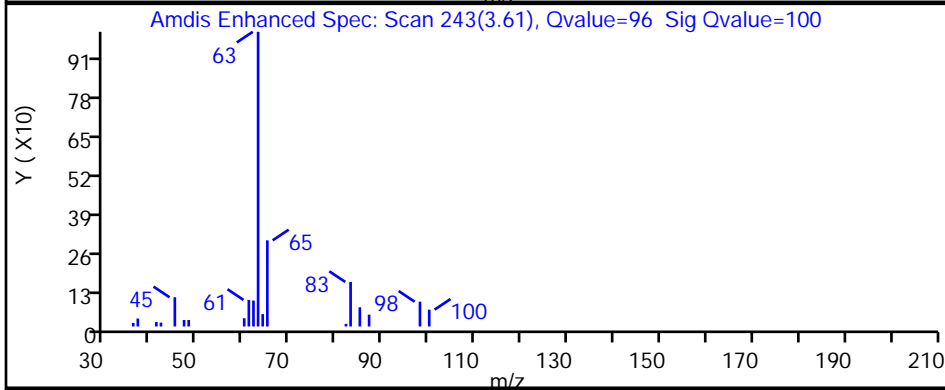
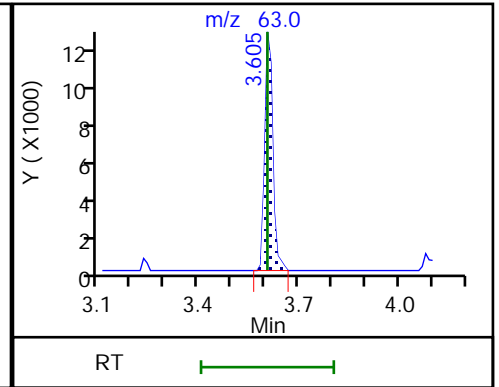
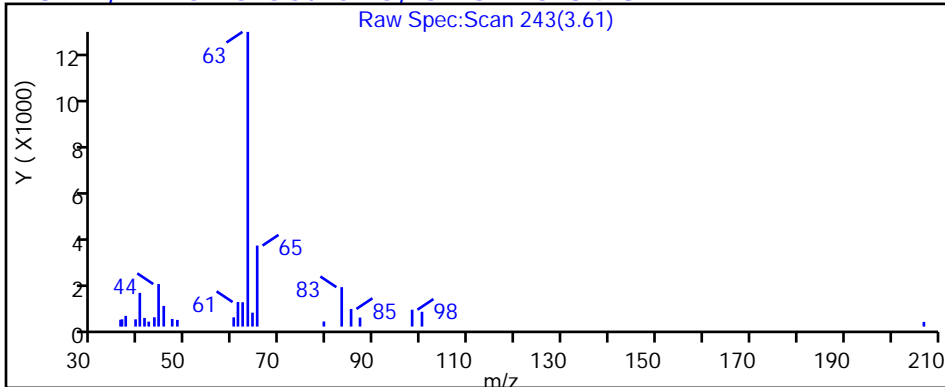
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

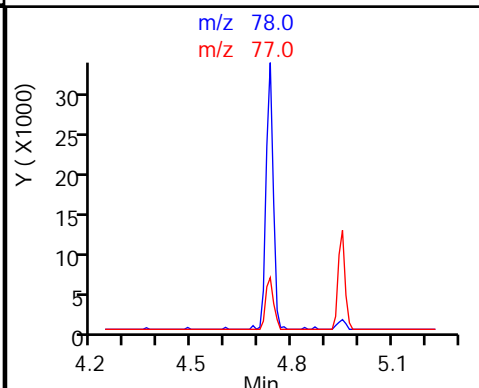
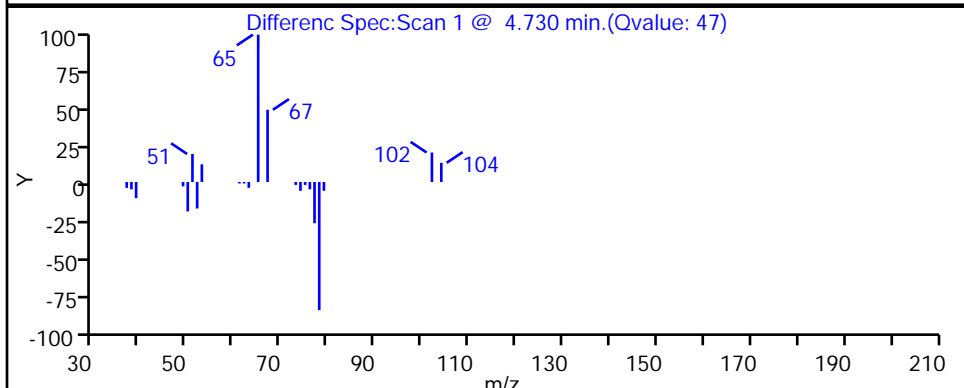
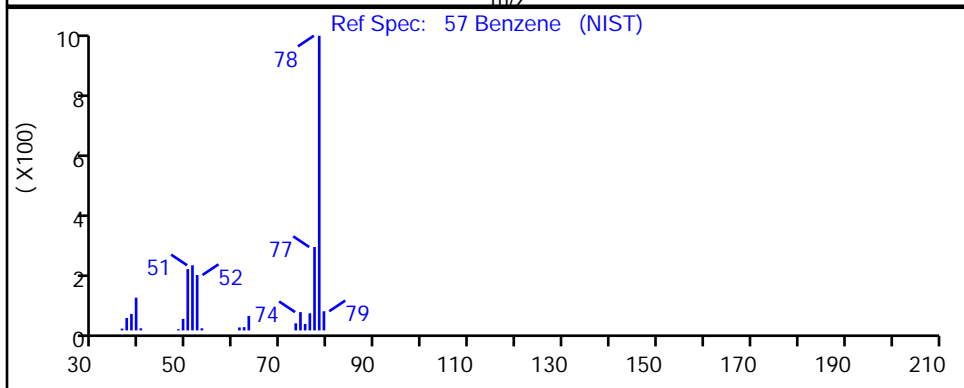
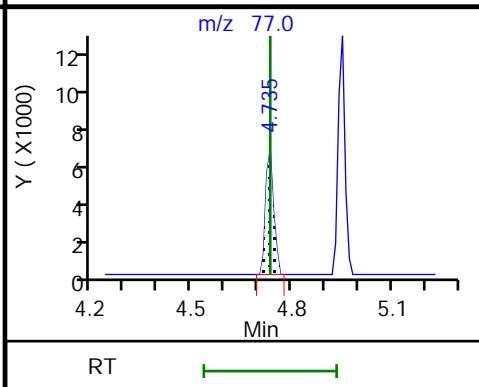
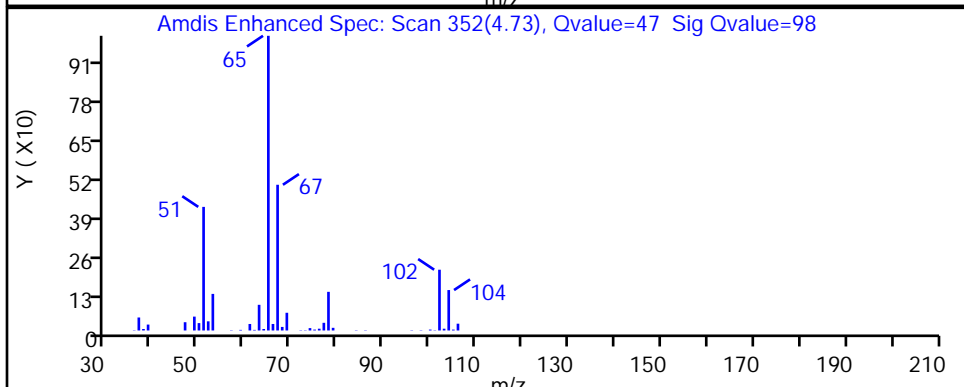
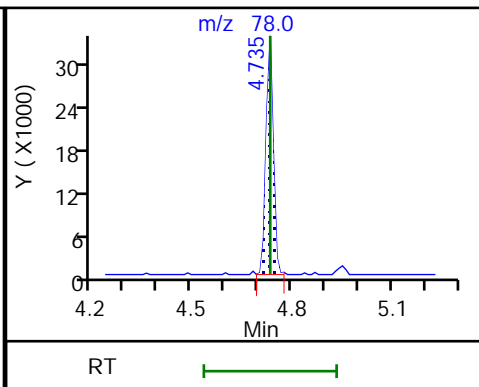
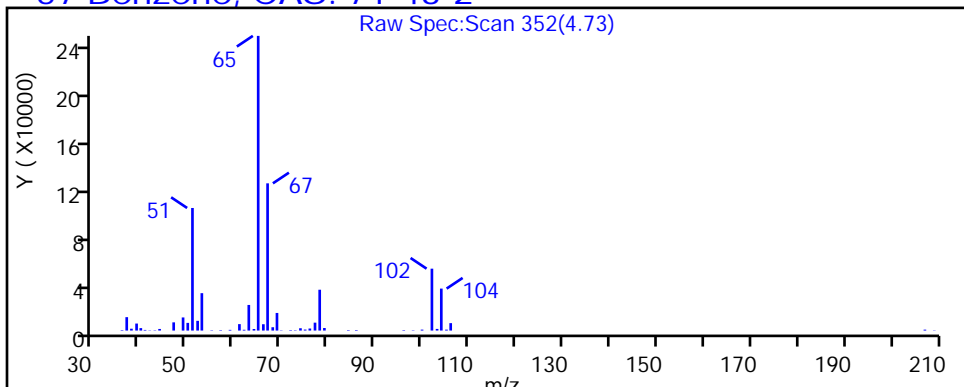
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

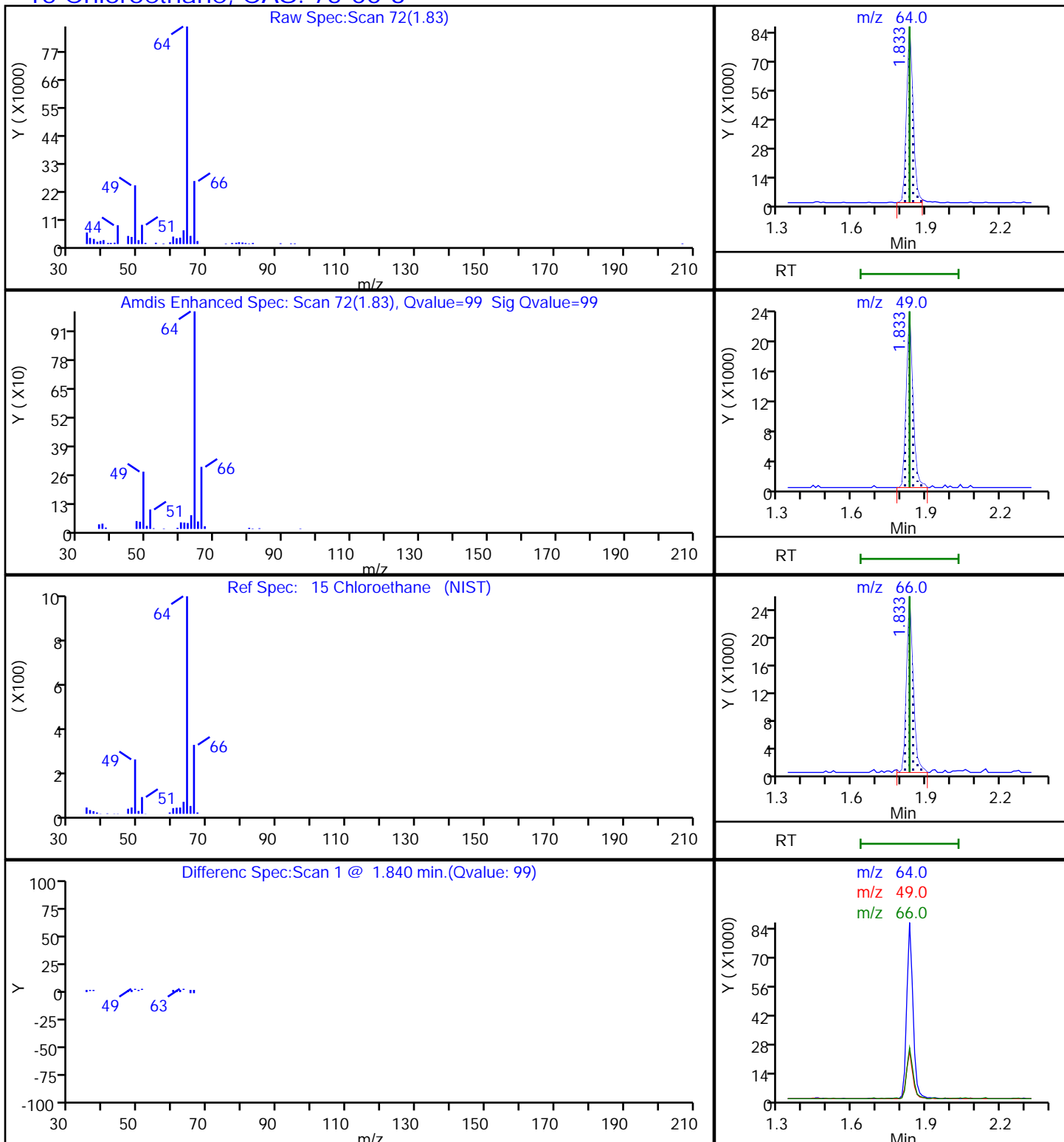
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

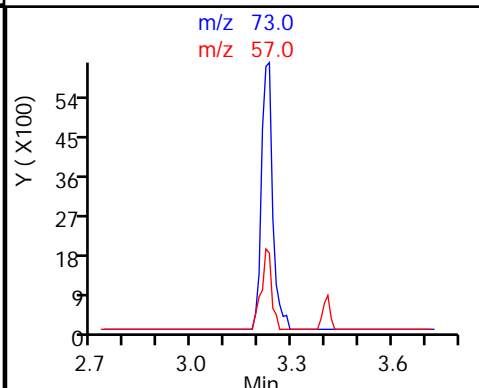
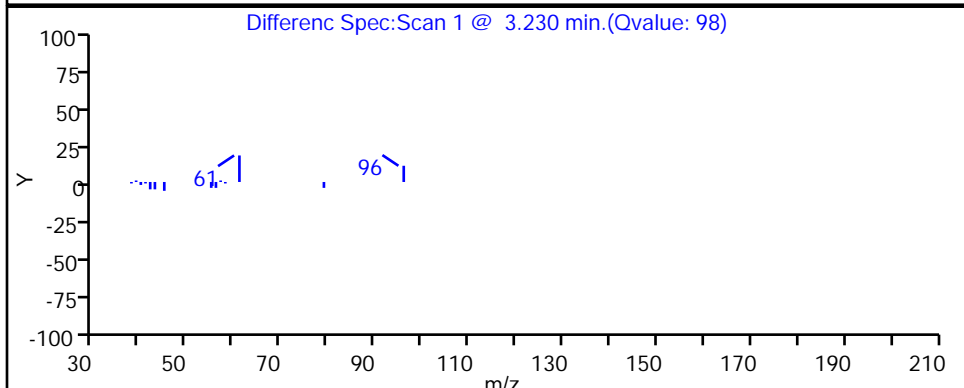
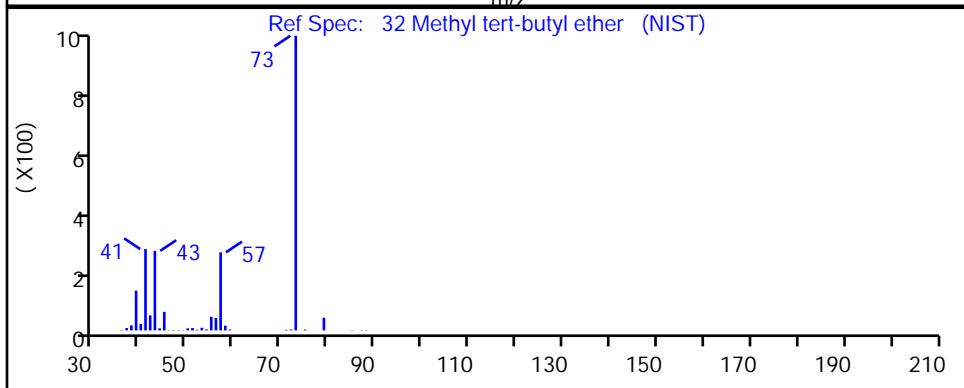
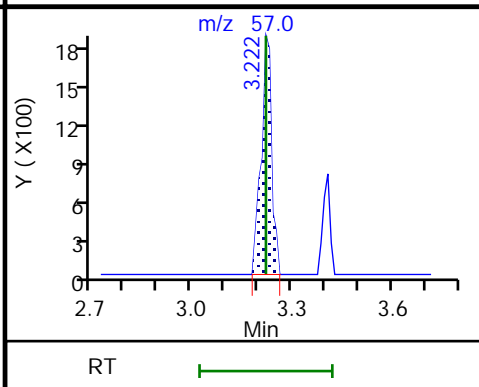
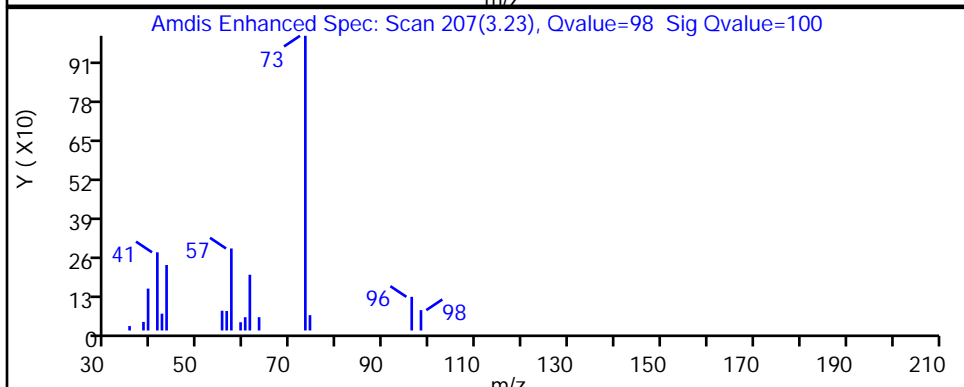
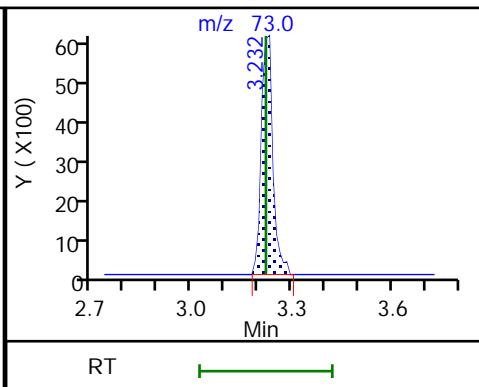
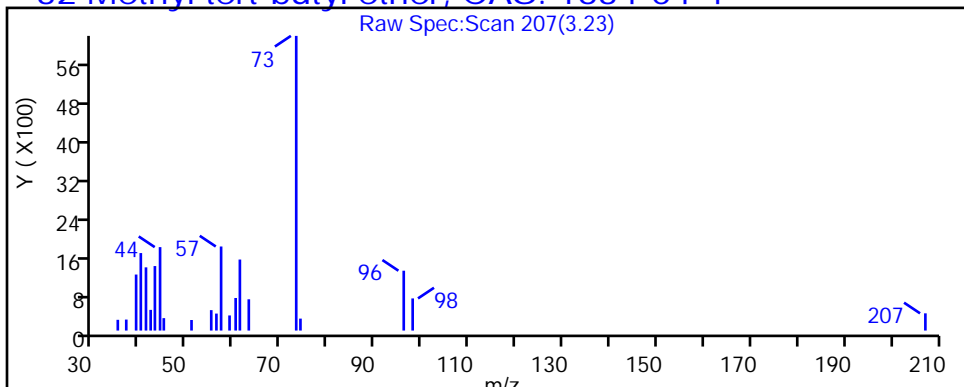
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

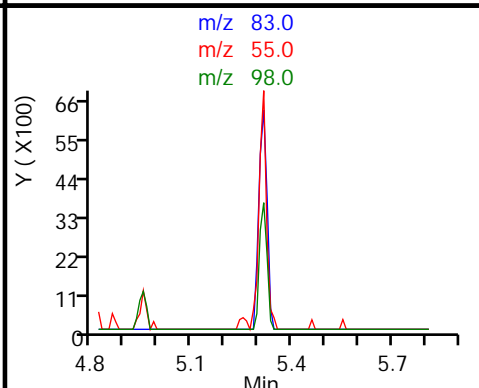
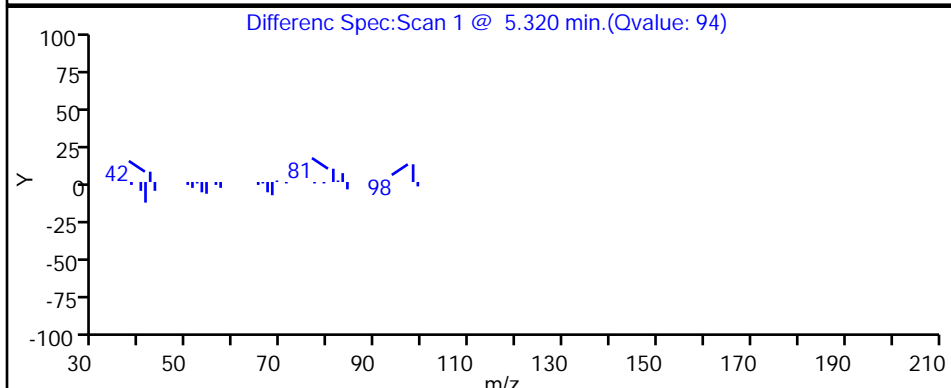
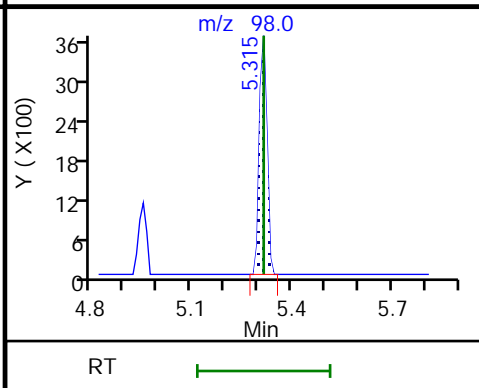
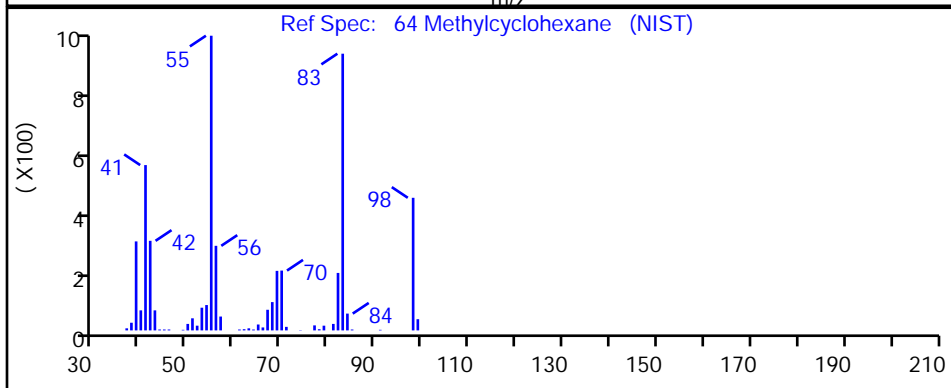
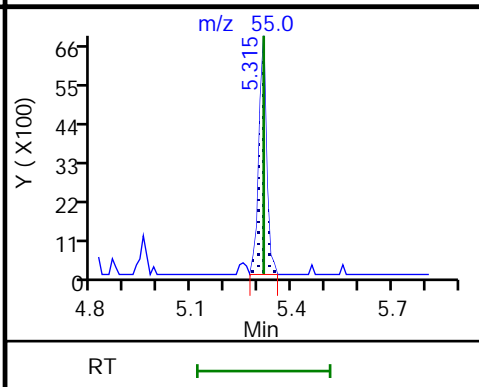
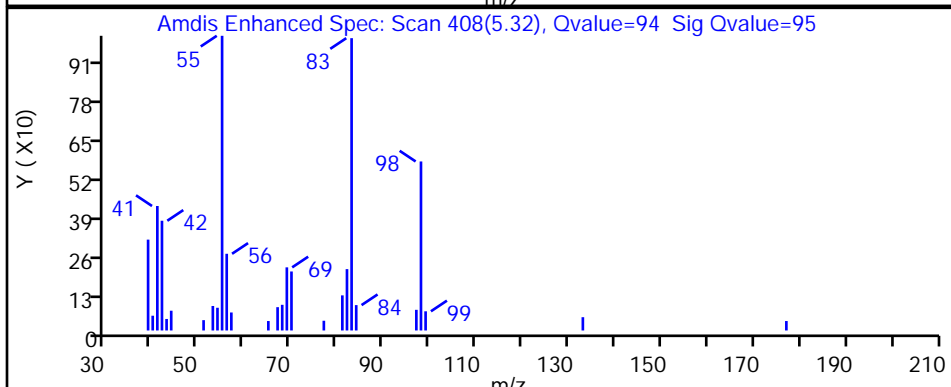
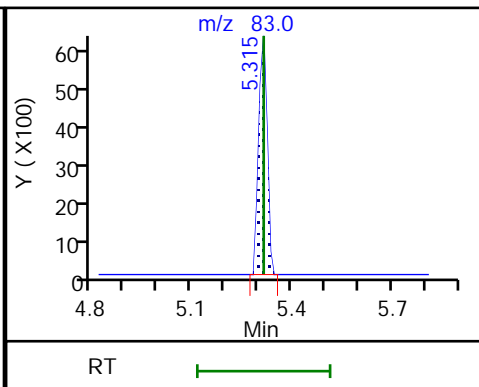
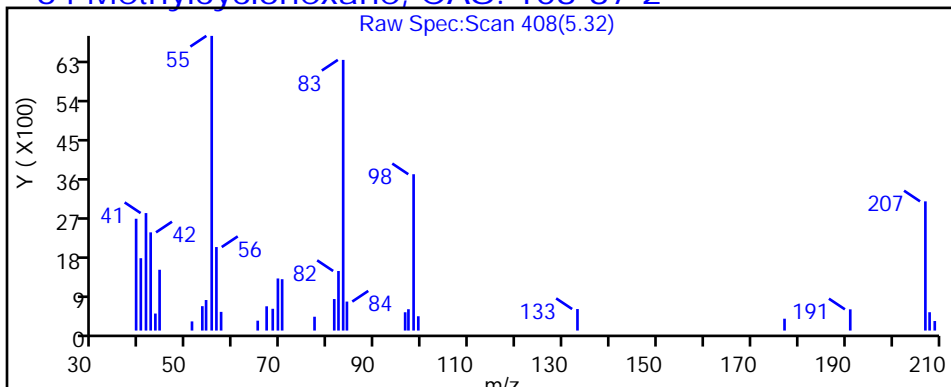
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

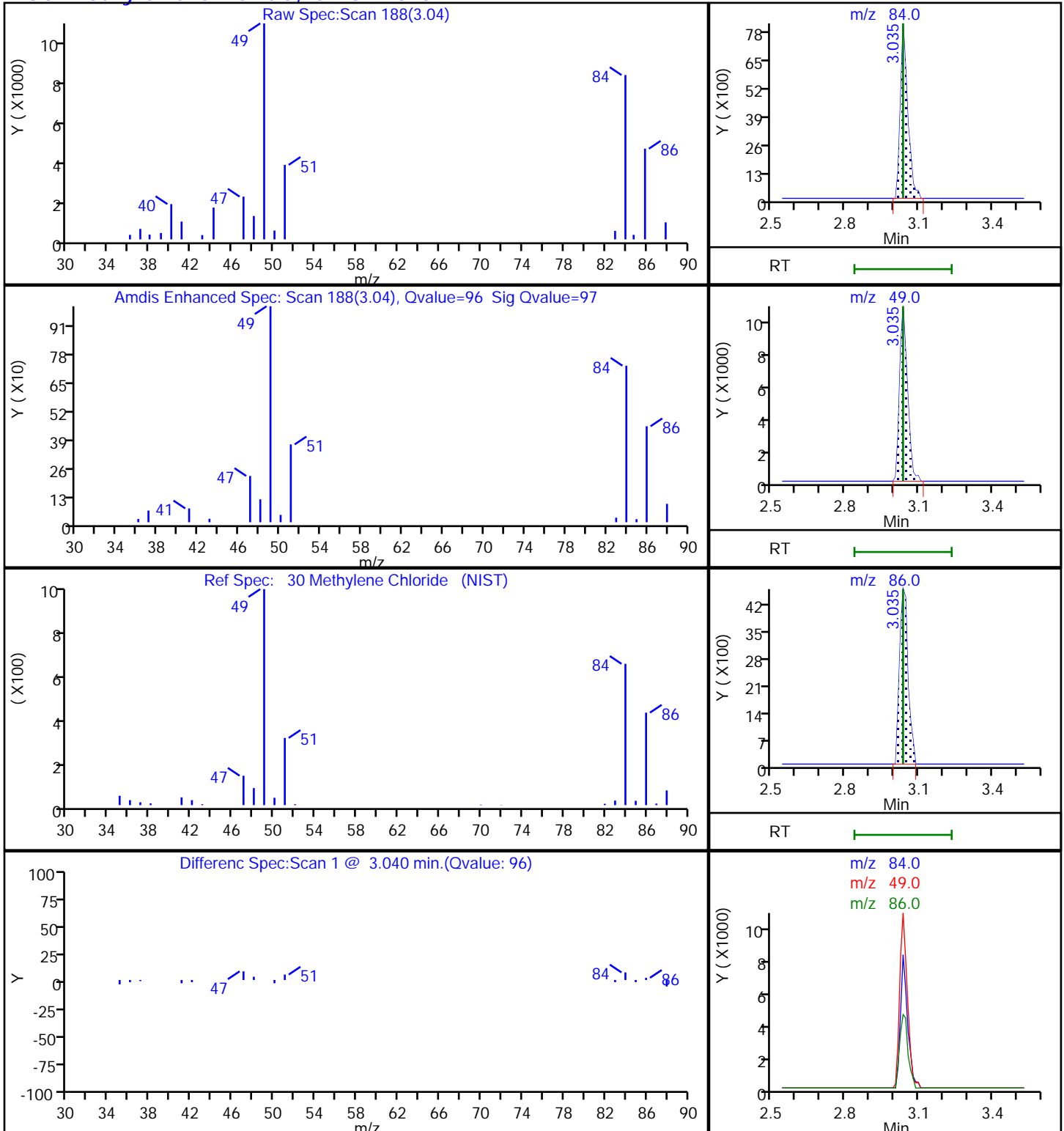
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

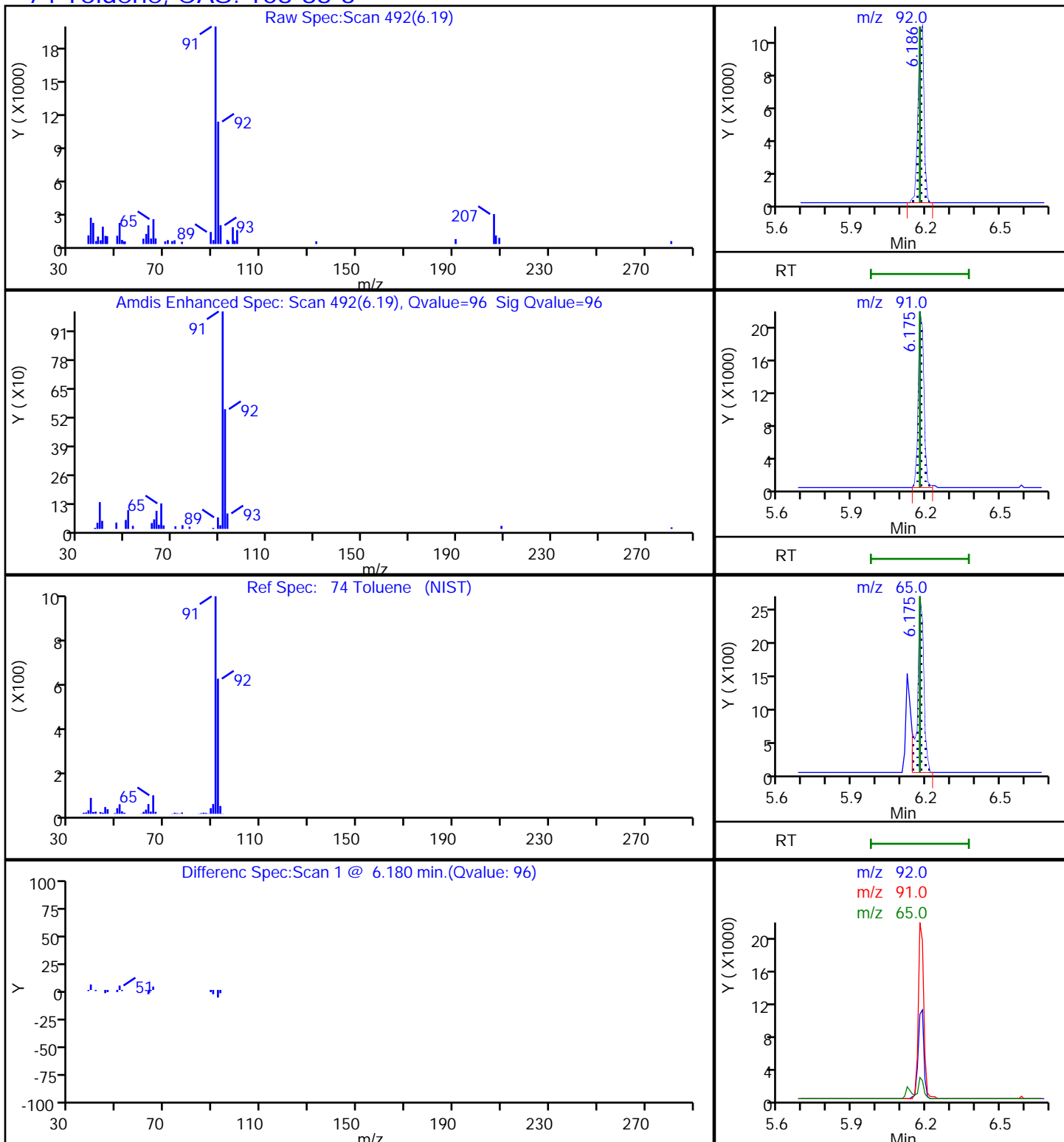
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

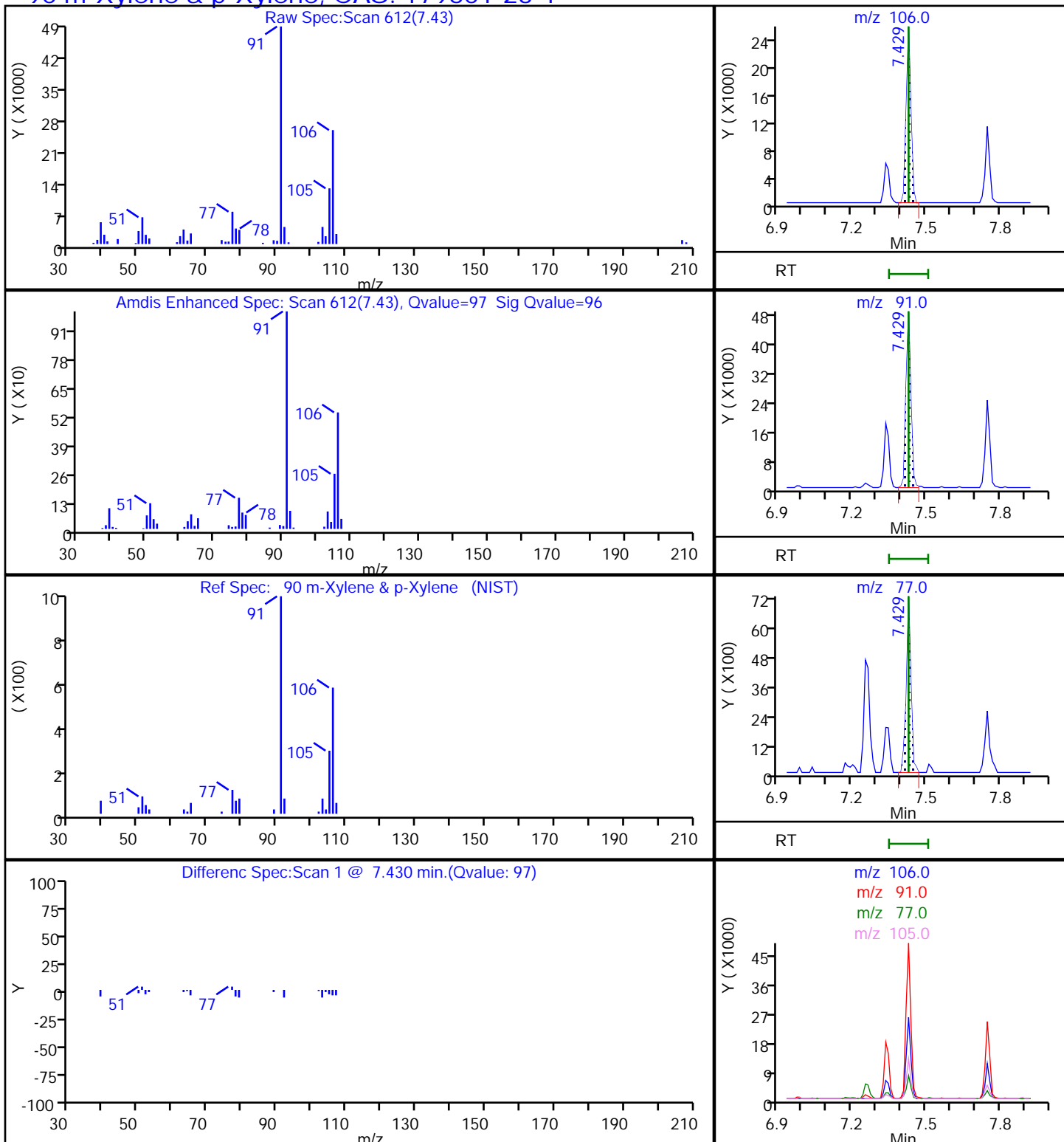
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

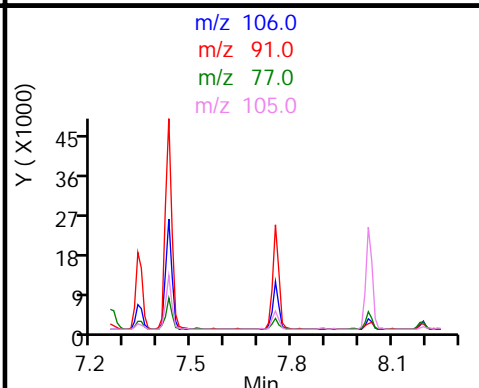
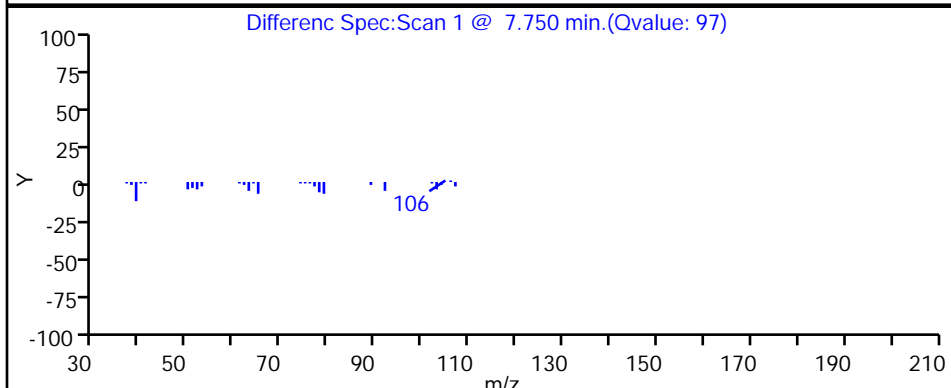
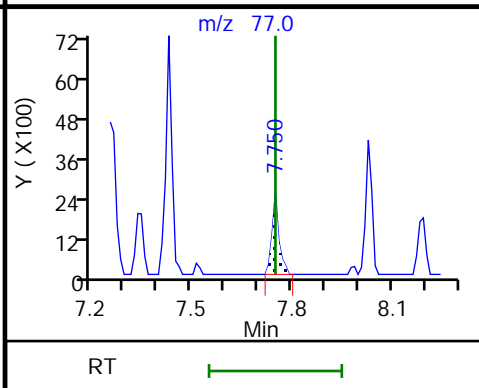
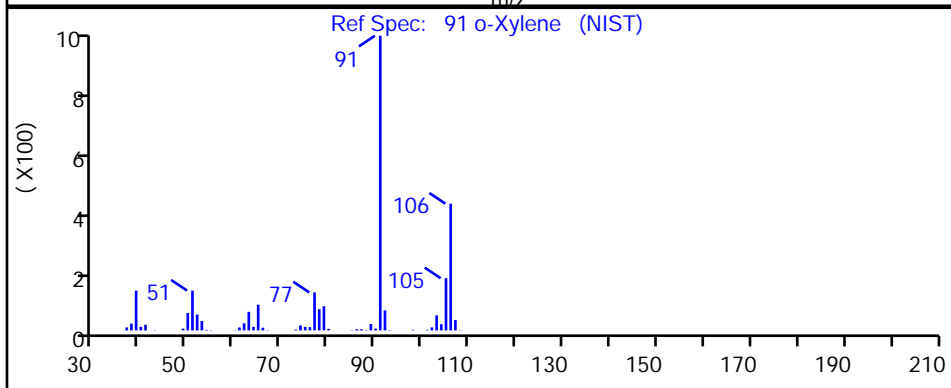
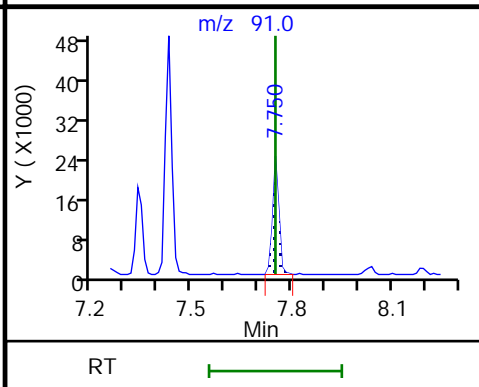
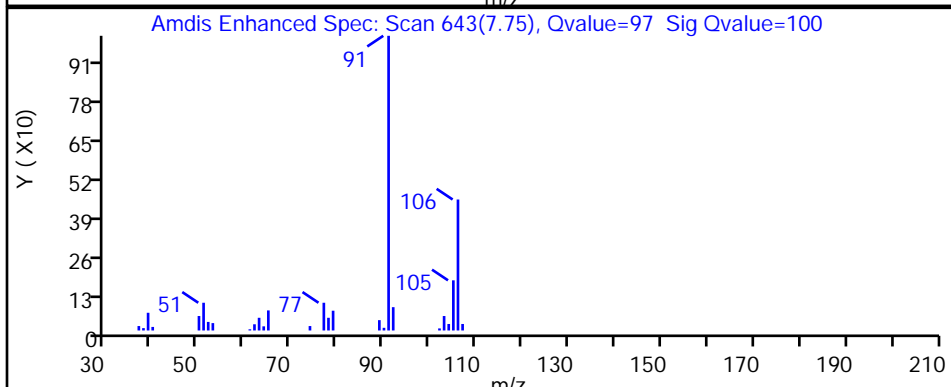
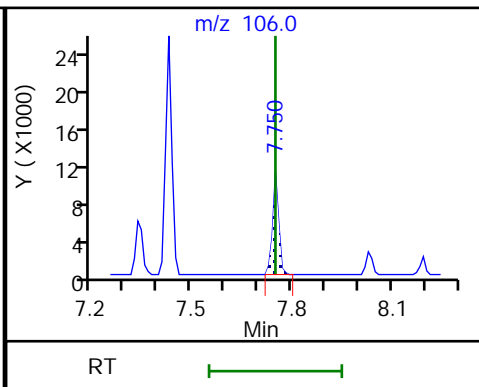
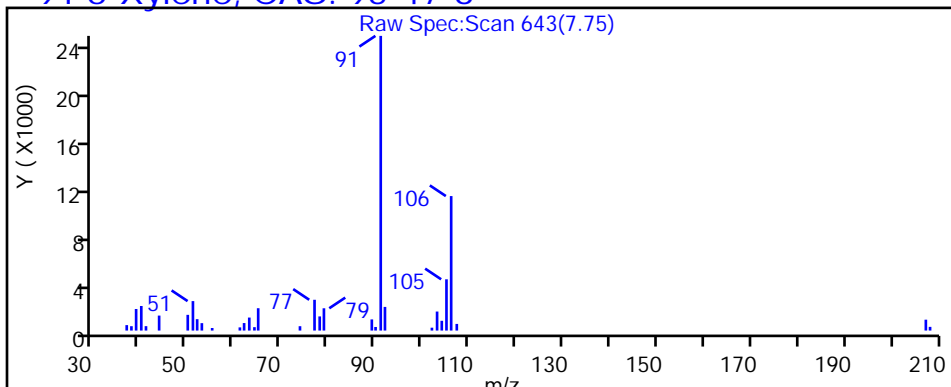
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

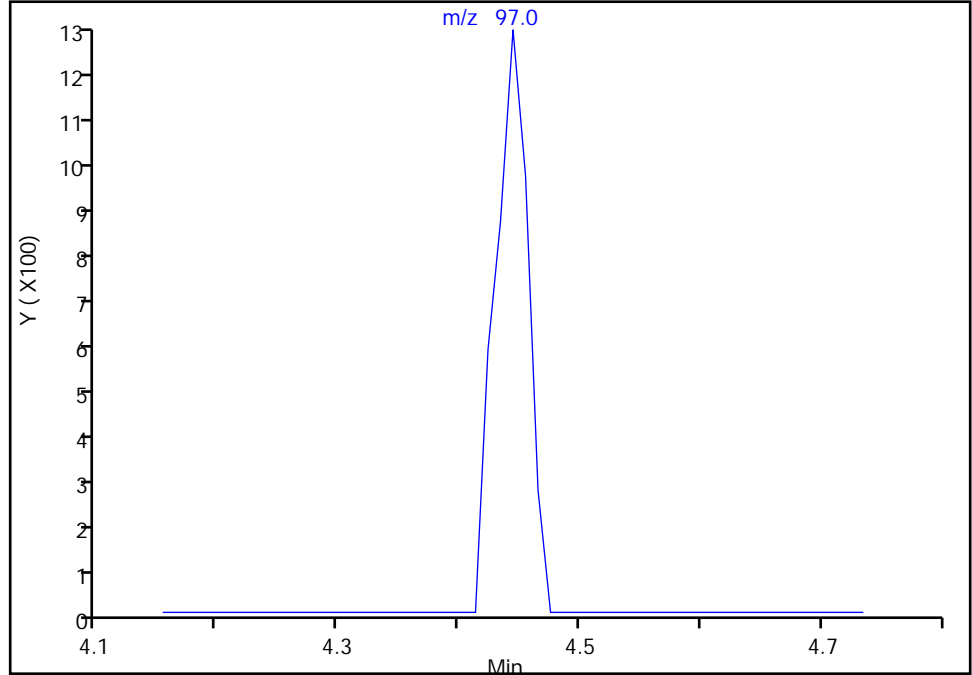
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Injection Date: 02-Mar-2019 05:42:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-8 Lab Sample ID: 480-149618-8
Client ID: LAB-SBW-15
Operator ID: NC ALS Bottle#: 20 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

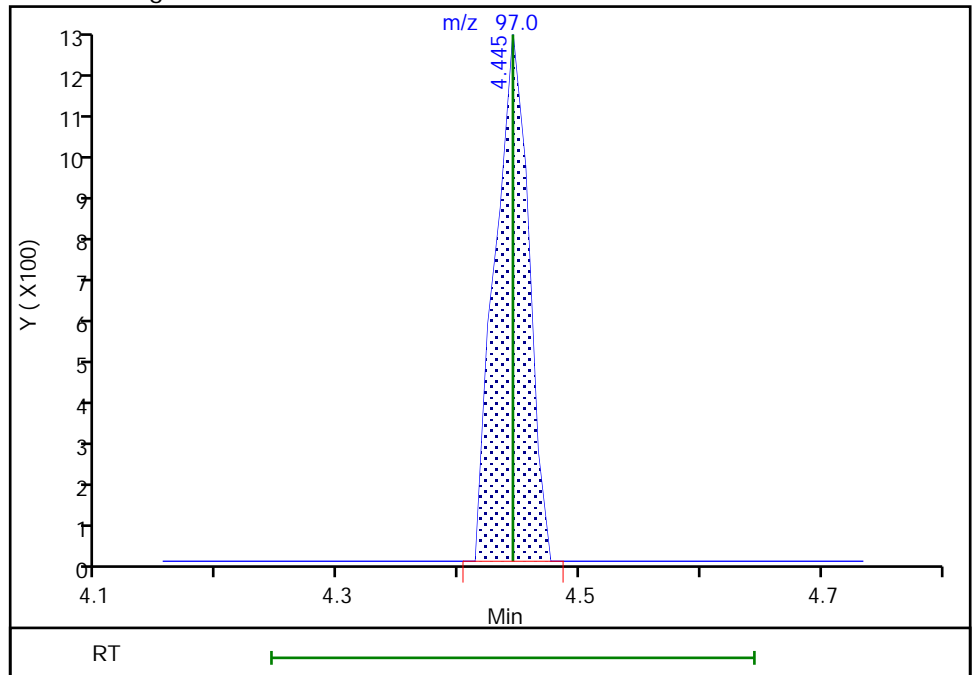
Not Detected
Expected RT: 4.44

Processing Integration Results



Manual Integration Results

RT: 4.44
Area: 2323
Amount: 0.129979
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:34:38
Audit Action: Assigned Compound ID

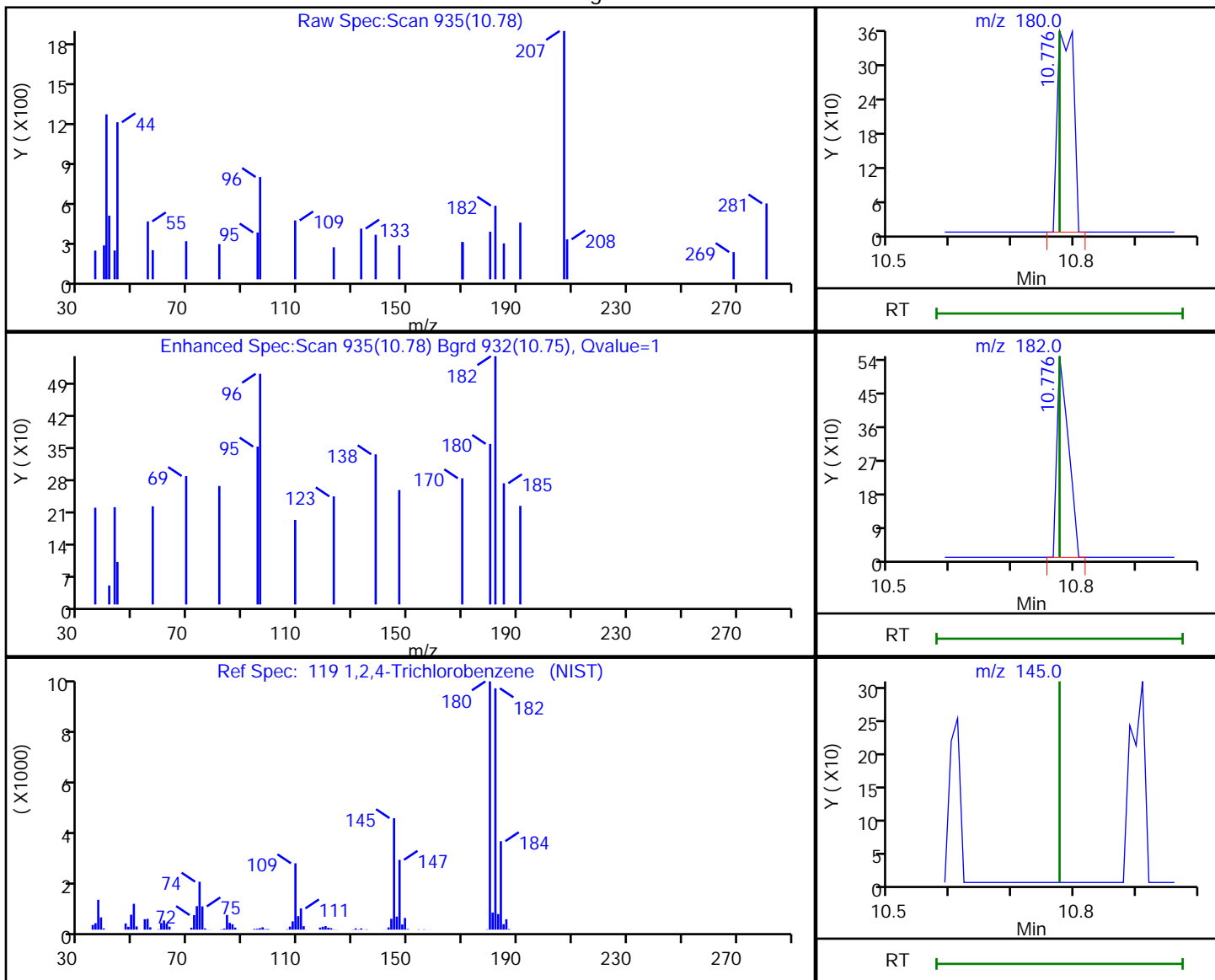
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D
 Injection Date: 02-Mar-2019 05:42:30 Instrument ID: HP5973C
 Lims ID: 480-149618-B-8 Lab Sample ID: 480-149618-8
 Client ID: LAB-SBW-15
 Operator ID: NC ALS Bottle#: 20 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
10.78	180.00	640	0.025226
10.78	182.00	706	
10.78	145.00	0	

Reviewer: izquierdo, 02-Mar-2019 13:35:25
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

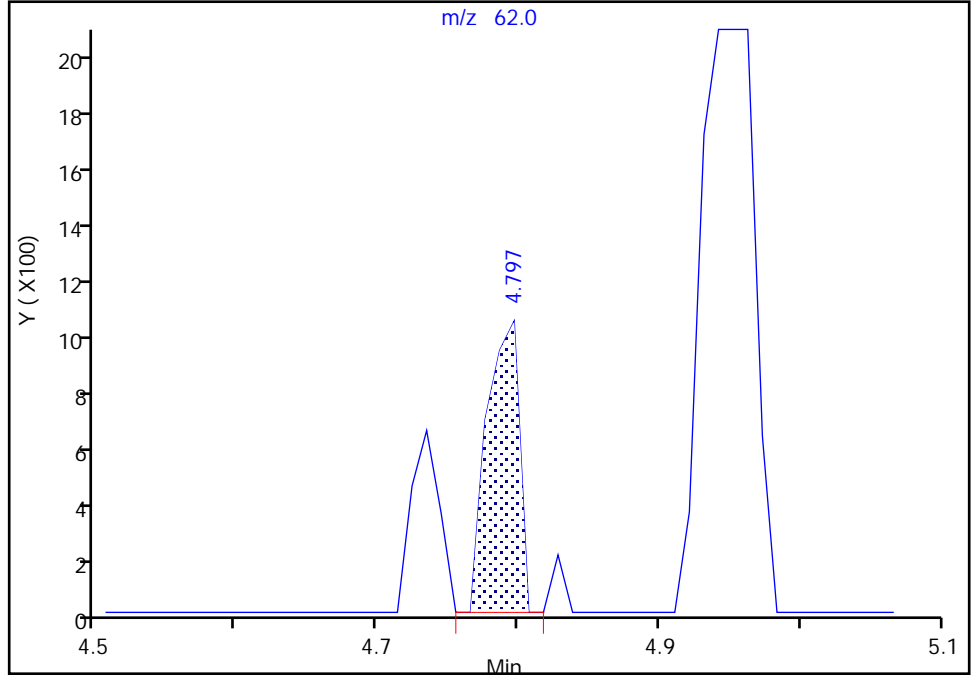
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D
Injection Date: 02-Mar-2019 05:42:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-8 Lab Sample ID: 480-149618-8
Client ID: LAB-SBW-15
Operator ID: NC ALS Bottle#: 20 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

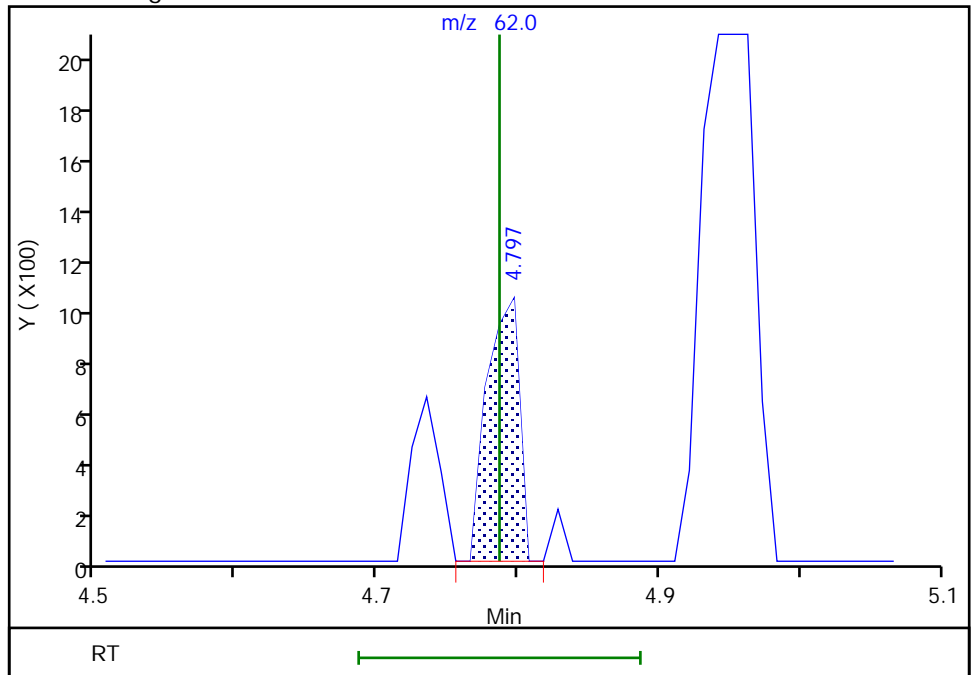
RT: 4.80
Area: 1670
Amount: 0.084258
Amount Units: ug/L

Processing Integration Results



RT: 4.80
Area: 1670
Amount: 0.084258
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

Method: C-8260

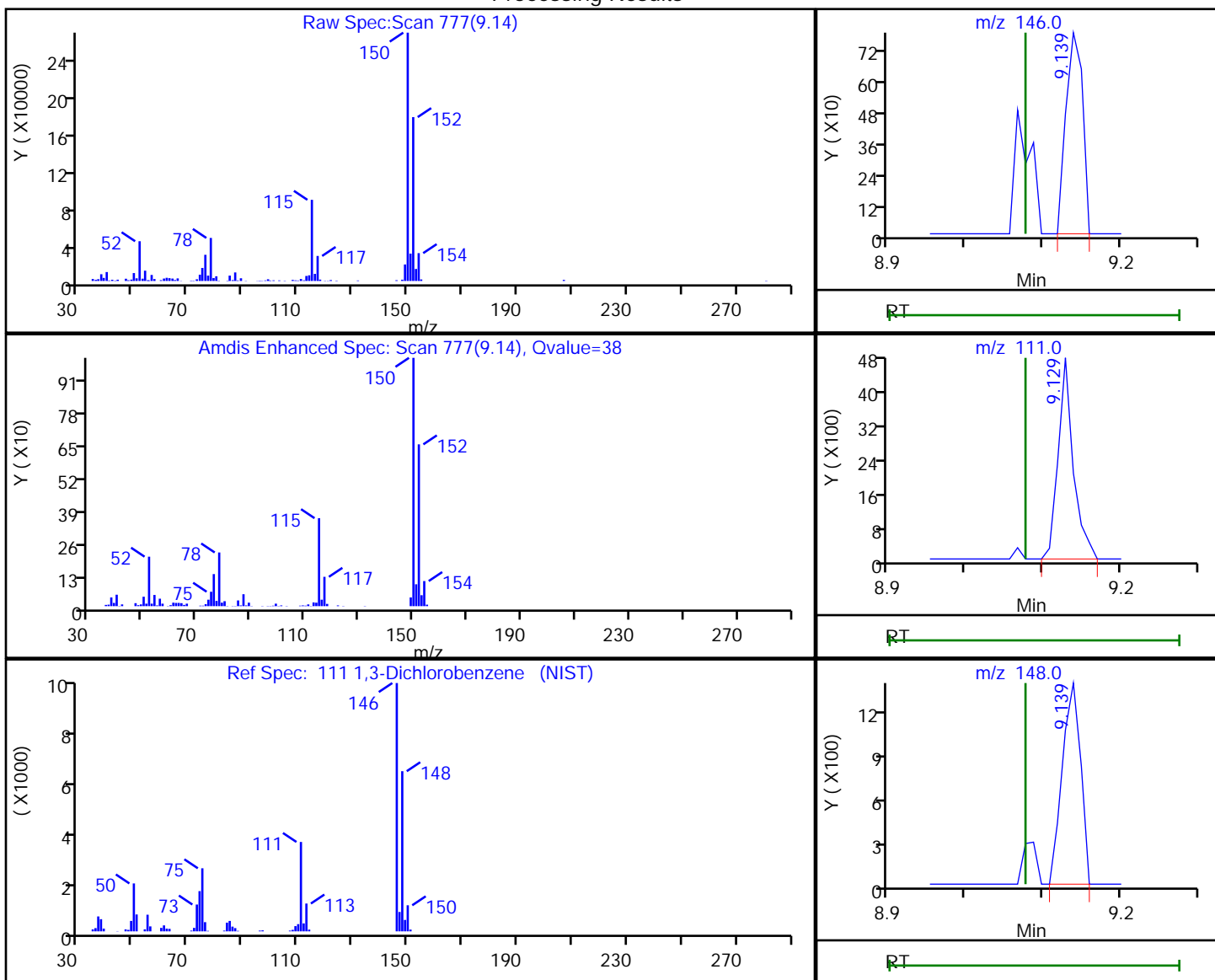
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.14	146.00	1173	0.033398
9.13	111.00	6480	
9.14	148.00	2183	

Reviewer: izquierdoo, 02-Mar-2019 13:35:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D

Injection Date: 02-Mar-2019 05:42:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-8

Lab Sample ID: 480-149618-8

Client ID: LAB-SBW-15

Operator ID: NC

ALS Bottle#: 20

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 4.0000

Method: C-8260

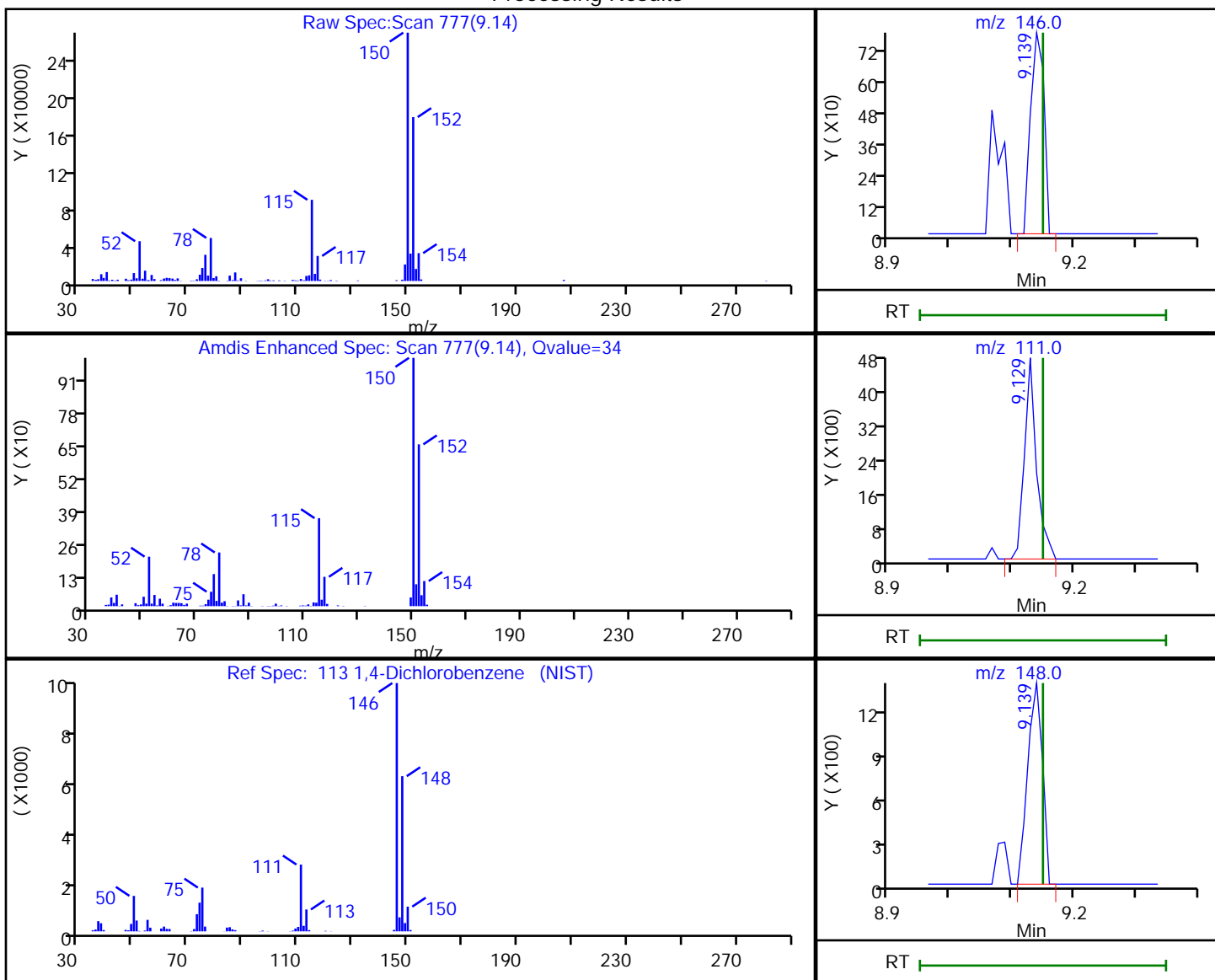
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.14	146.00	1173	0.032978
9.13	111.00	6481	
9.14	148.00	2183	

Reviewer: izquierdo, 02-Mar-2019 13:35:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

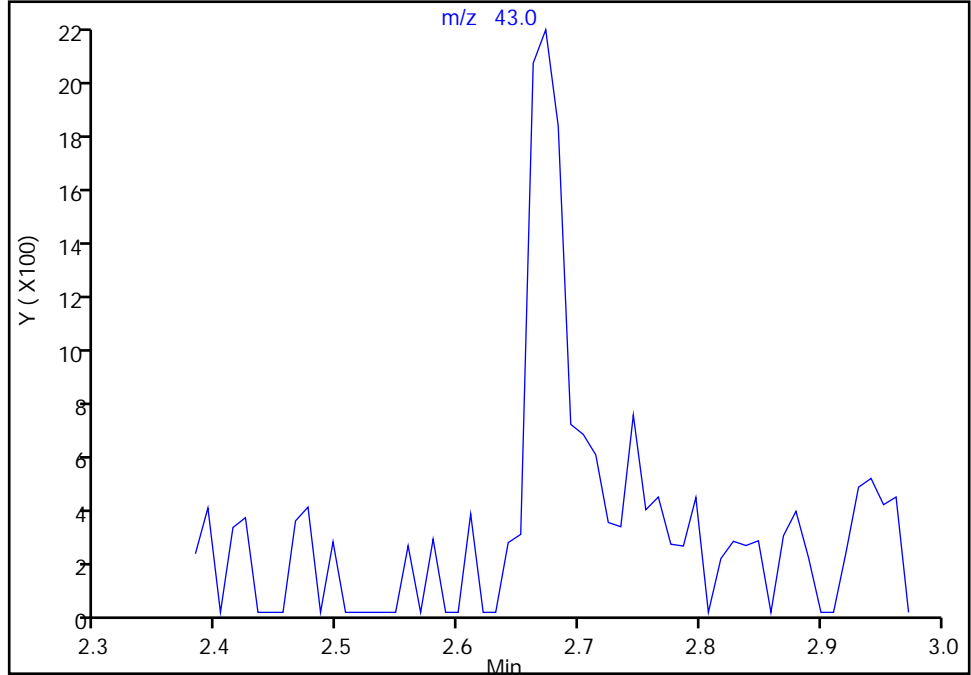
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D
Injection Date: 02-Mar-2019 05:42:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-8 Lab Sample ID: 480-149618-8
Client ID: LAB-SBW-15
Operator ID: NC ALS Bottle#: 20 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

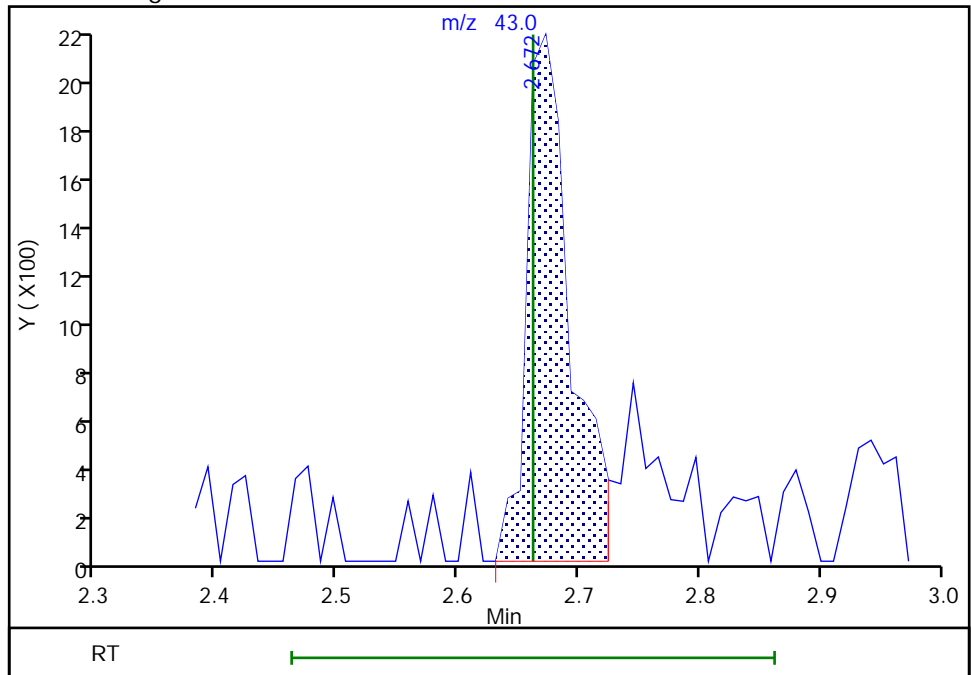
Not Detected
Expected RT: 2.66

Processing Integration Results



Manual Integration Results

RT: 2.67
Area: 5578
Amount: 1.056635
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:34:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

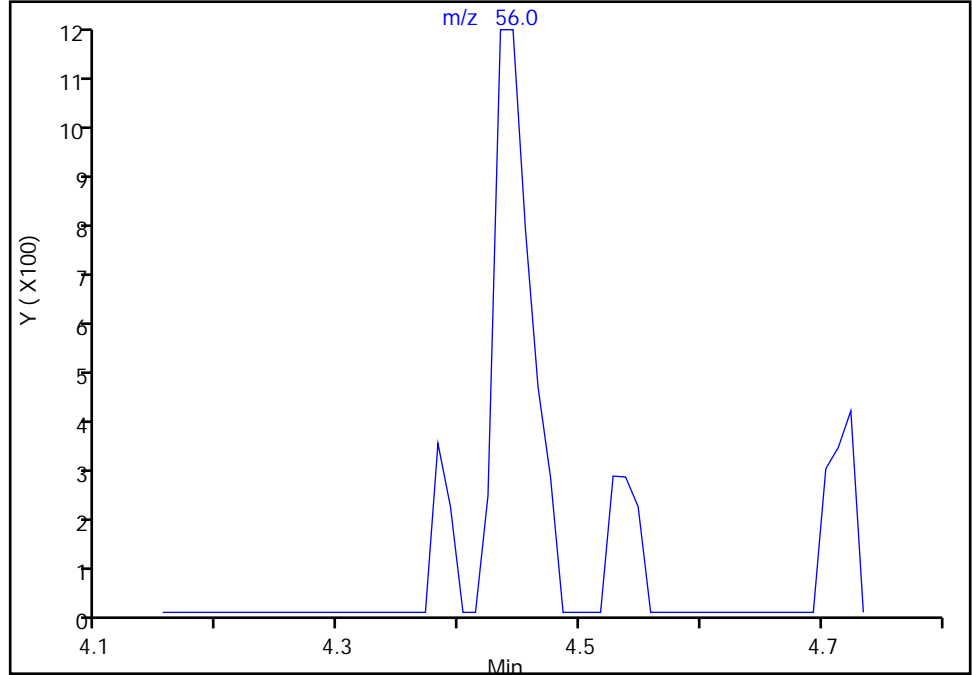
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D				
Injection Date:	02-Mar-2019 05:42:30	Instrument ID:	HP5973C		
Lims ID:	480-149618-B-8	Lab Sample ID:	480-149618-8		
Client ID:	LAB-SBW-15				
Operator ID:	NC	ALS Bottle#:	20	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

52 Cyclohexane, CAS: 110-82-7

Signal: 1

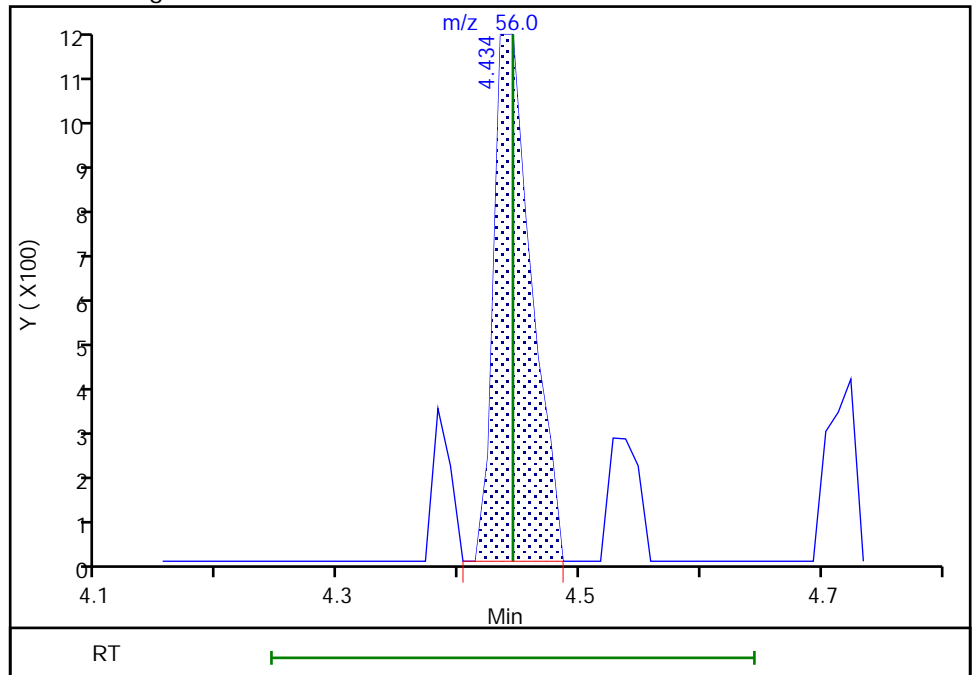
Not Detected
Expected RT: 4.44

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 2585
Amount: 0.136432
Amount Units: ug/L



Reviewer: izquierdo, 02-Mar-2019 13:34:34
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

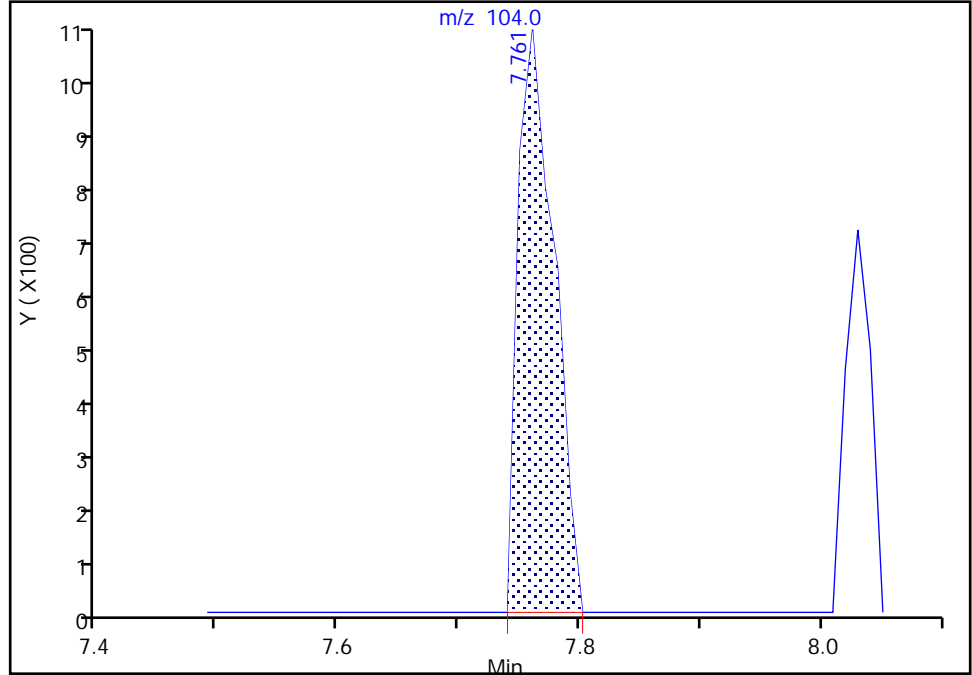
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5019.D	Instrument ID:	HP5973C	Worklist Smp#:	23
Injection Date:	02-Mar-2019 05:42:30	Lab Sample ID:	480-149618-8		
Lims ID:	480-149618-B-8				
Client ID:	LAB-SBW-15	ALS Bottle#:	20		
Operator ID:	NC	Dil. Factor:	4.0000		
Purge Vol:	5.000 mL	Limit Group:	MV - 8260C ICAL		
Method:	C-8260	Detector:	MS SCAN		
Column:	ZB-624 (0.25 mm)				

92 Styrene, CAS: 100-42-5

Signal: 1

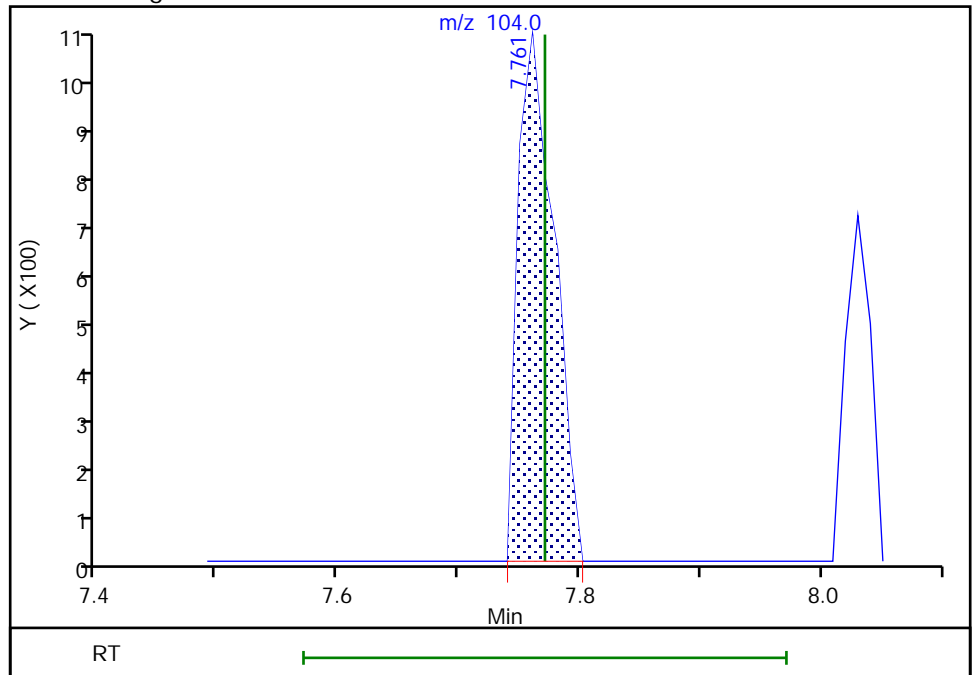
RT: 7.76
Area: 2086
Amount: 0.056540
Amount Units: ug/L

Processing Integration Results



RT: 7.76
Area: 2086
Amount: 0.056540
Amount Units: ug/L

Manual Integration Results



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-149618-9
 Matrix: Water Lab File ID: C4997.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	87		1.0	0.31
75-34-3	1,1-Dichloroethane	220	E	1.0	0.38
75-35-4	1,1-Dichloroethene	2.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	8.3	J	10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	5.0	J	10	3.0
71-43-2	Benzene	20		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	74		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	190	E	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	2.2		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-149618-9
 Matrix: Water Lab File ID: C4997.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.3		1.0	0.16
108-87-2	Methylcyclohexane	0.48	J	1.0	0.16
75-09-2	Methylene Chloride	0.62	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	2.9		1.0	0.36
108-88-3	Toluene	85		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	8.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	9.9		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	180	E	1.0	0.90
1330-20-7	Xylenes, Total	10		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-149618-9
 Matrix: Water Lab File ID: C4997.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 4 TIC Result Total: 149.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.56	2.8	T J	
930-18-7	Cyclopropane, 1,2-dimethyl-, cis-	2.12	2.8	T J N	90%
60-29-7	Ethyl ether	2.33	3.7	T J N	90%
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.39	140	T J N	94%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D
 Lims ID: 480-149618-A-9
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 01-Mar-2019 19:19:30 ALS Bottle#: 24 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-149618-A-9
 Misc. Info.: 480-0079046-026
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 19:47:18 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln

Date: 01-Mar-2019 19:48:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	205999	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	85	439100	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.128	0.001	94	483069	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.001	93	300464	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.001	63	177012	24.5	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1113392	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	364163	26.3	
10 Dichlorodifluoromethane	85		1.180				ND	
12 Chloromethane	50		1.356				ND	U
13 Vinyl chloride	62	1.450	1.449	0.001	98	2577578	180.4	E
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.833	1.822	0.011	99	665476	73.8	
17 Trichlorofluoromethane	101		2.050				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	91	845824	86.7	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	94	23694	2.24	
23 Acetone	43	2.673	2.673	0.000	97	26781	4.96	M
26 Carbon disulfide	76	2.735	2.734	0.001	57	4681	0.1336	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.025	3.035	-0.010	94	8474	0.6225	
32 Methyl tert-butyl ether	73	3.222	3.221	0.001	52	48544	1.31	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	103163	7.99	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	5096454	218.7	E
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	2931411	190.1	E
43 2-Butanone (MEK)	43	4.123	4.134	-0.011	98	60232	8.26	
50 Chloroform	83	4.351	4.351	0.000	85	3246	0.1384	
51 1,1,1-Trichloroethane	97	4.445	4.434	0.011	98	186940	10.2	
52 Cyclohexane	56		4.444				ND	MU
55 Carbon tetrachloride	117		4.548				ND	
57 Benzene	78	4.735	4.734	0.001	96	944105	19.6	
58 1,2-Dichloroethane	62		4.786				ND	U
62 Trichloroethene	95	5.222	5.222	0.000	92	126520	9.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	92	8280	0.4841	
65 1,2-Dichloropropane	63		5.408				ND	U
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.061				ND	
74 Toluene	92	6.175	6.175	0.000	98	2658179	85.1	
77 trans-1,3-Dichloropropene	75		6.393				ND	U
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166	6.590	6.590	0.001	96	39397	2.92	
80 2-Hexanone	43		6.703				ND	U
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.931				ND	
87 Chlorobenzene	112		7.284				ND	
88 Ethylbenzene	91	7.336	7.336	0.000	98	129287	2.18	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	177367	7.42	
91 o-Xylene	106	7.750	7.750	0.000	97	69609	2.75	
92 Styrene	104		7.771				ND	U
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	16861	0.2551	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	U
113 1,4-Dichlorobenzene	146		9.149				ND	
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		10.2	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D
 Lims ID: 480-149618-A-9
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 01-Mar-2019 19:19:30 ALS Bottle#: 24 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-149618-A-9
 Misc. Info.: 480-0079046-026
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 19:47:18 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326
 First Level Reviewer: carrolln Date: 01-Mar-2019 19:48:50

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
Unknown								
1.564	254781	2.78	153					
930-18-7	Cyclopropane, 1,2-dimethyl-, cis-							
2.123	256250	2.80	153	90	111567	C5H10	70	
60-29-7	Ethyl ether							
2.331	343043	3.75	153	90	108346	C4H10O	74	
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-							
2.393	13225485	144.5	153	94	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.952	2288504	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Worklist Smp#: 26

Client ID: DUPE

Purge Vol: 5.000 mL

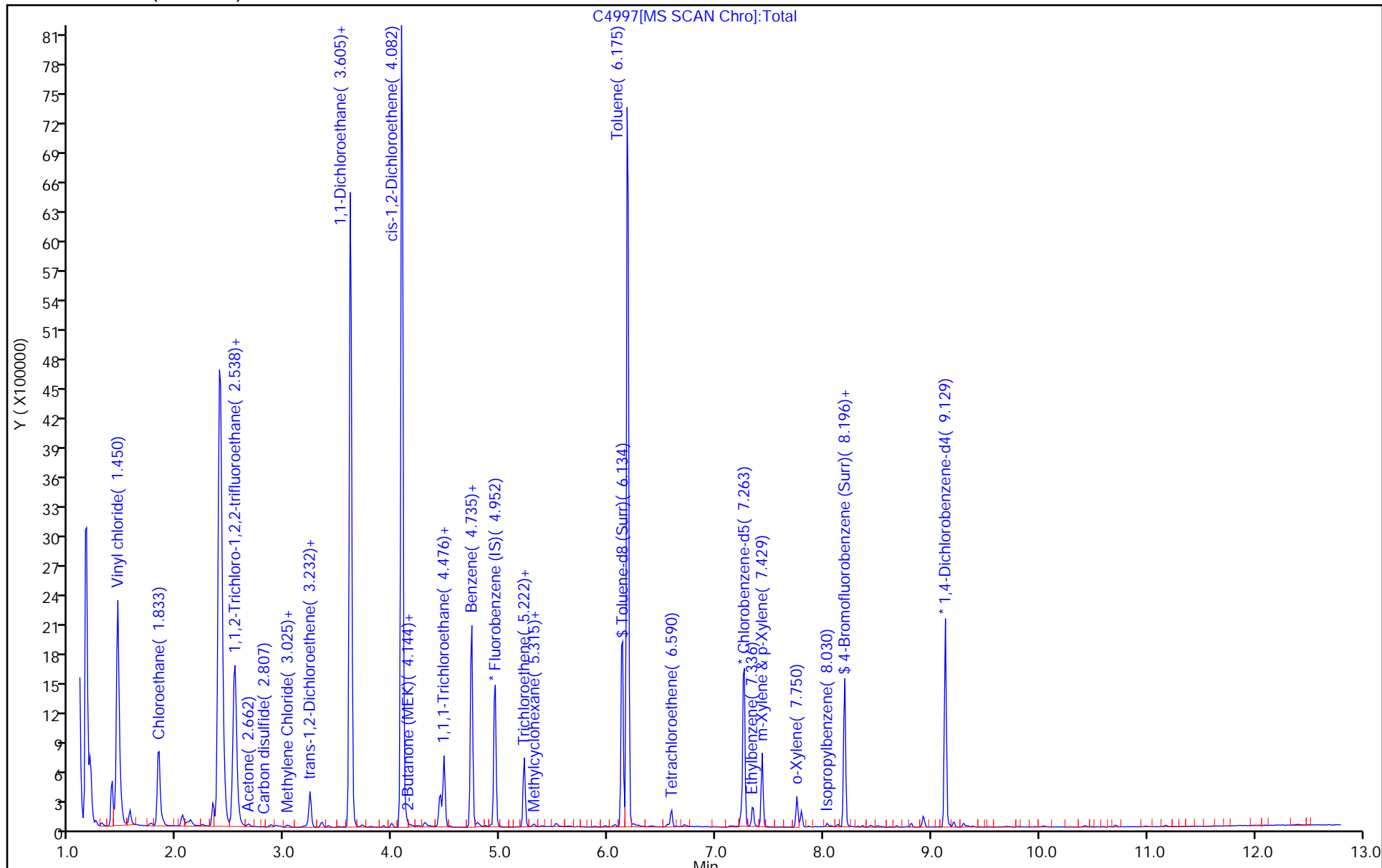
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

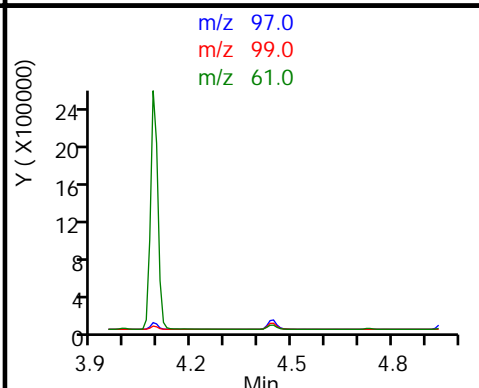
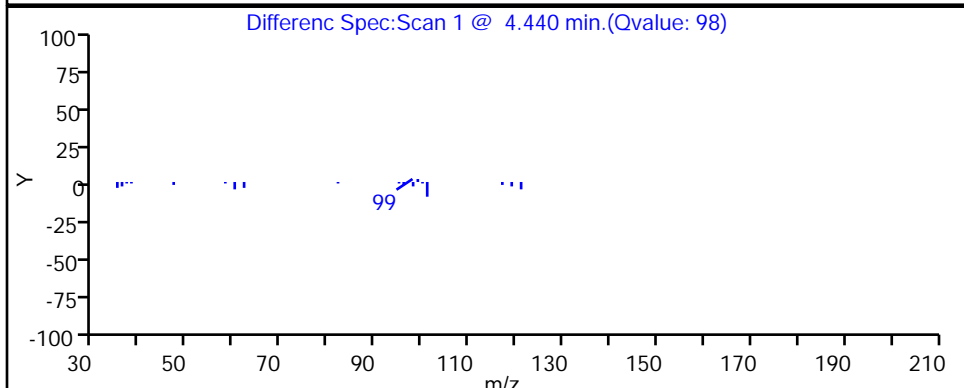
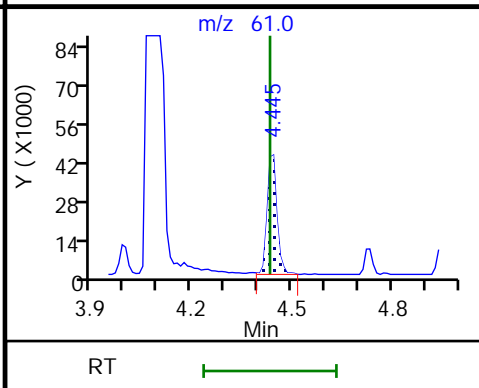
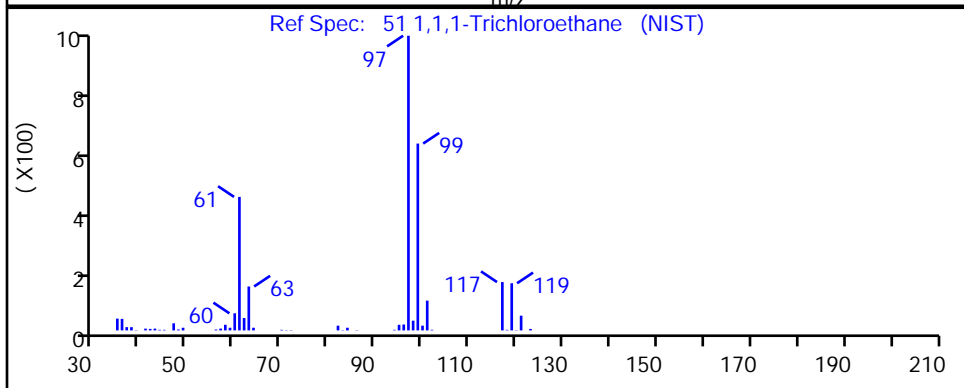
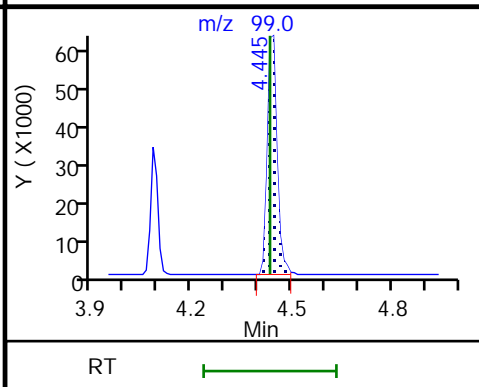
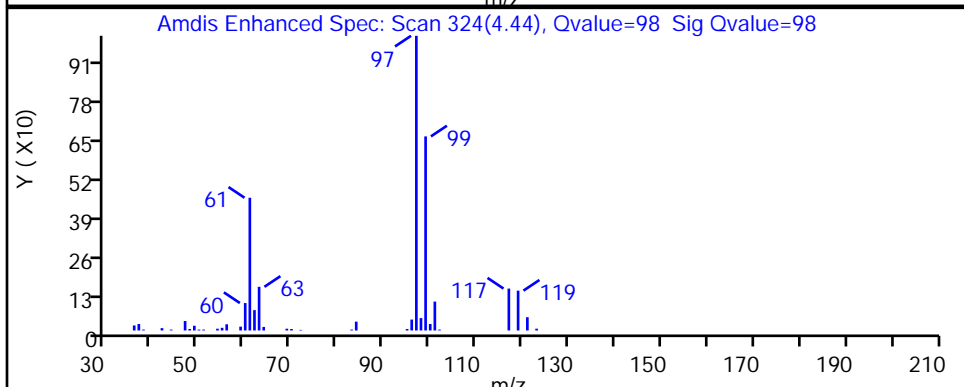
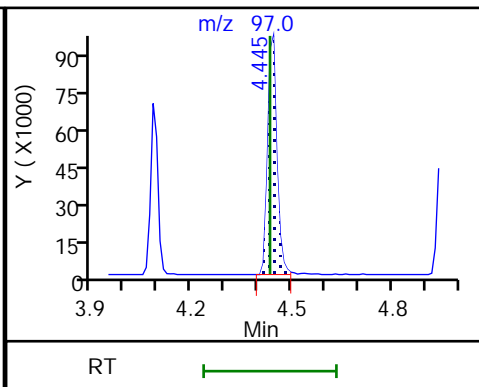
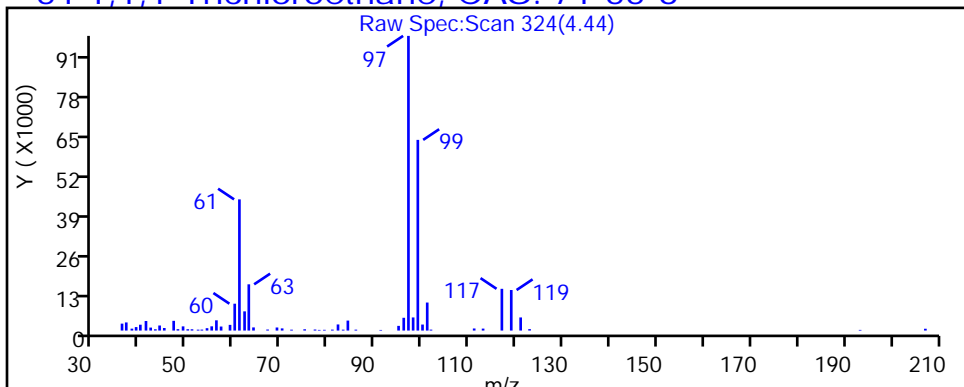
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

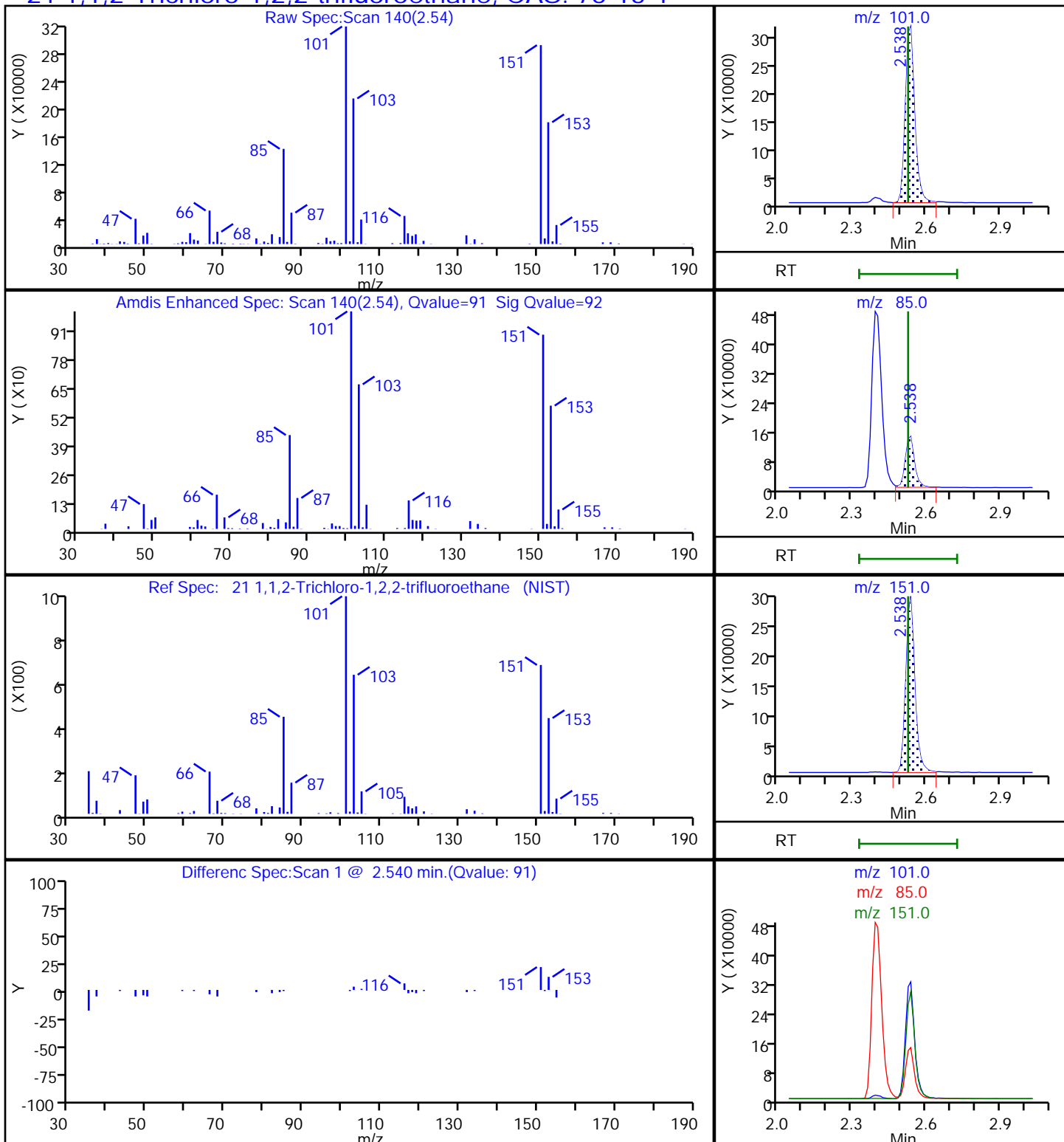
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

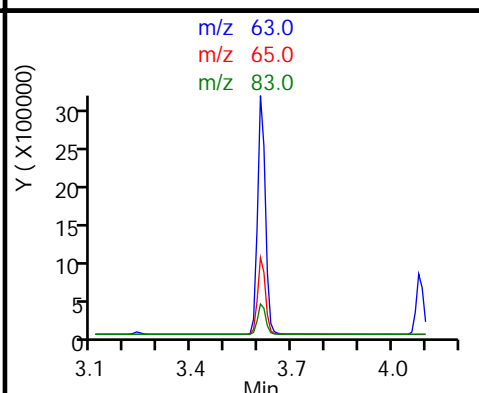
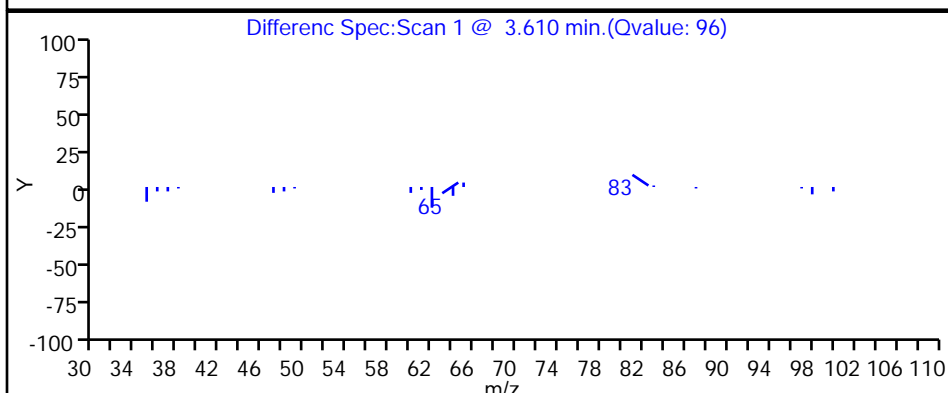
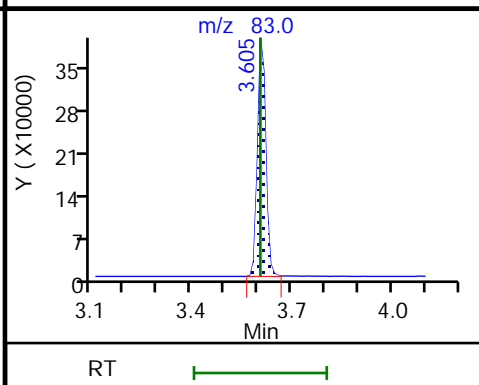
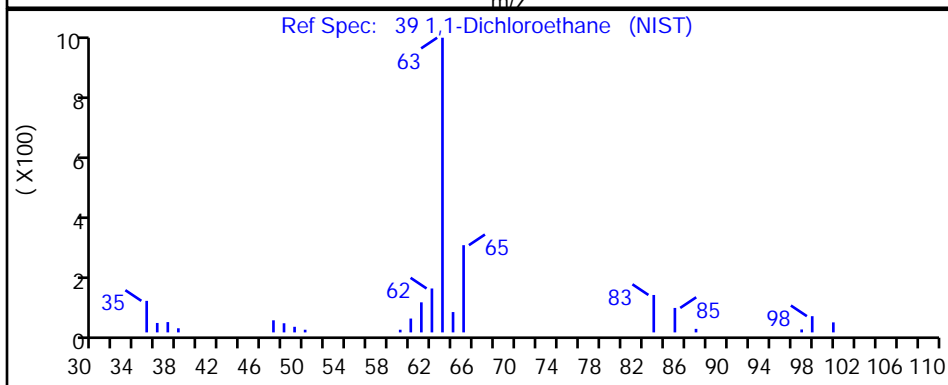
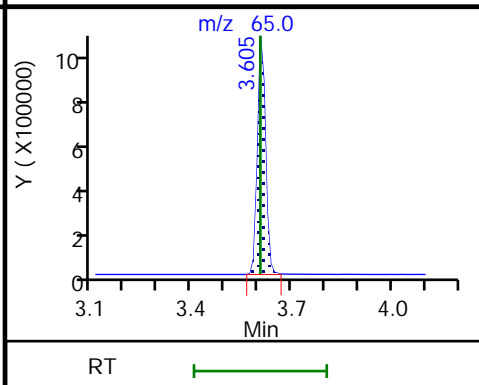
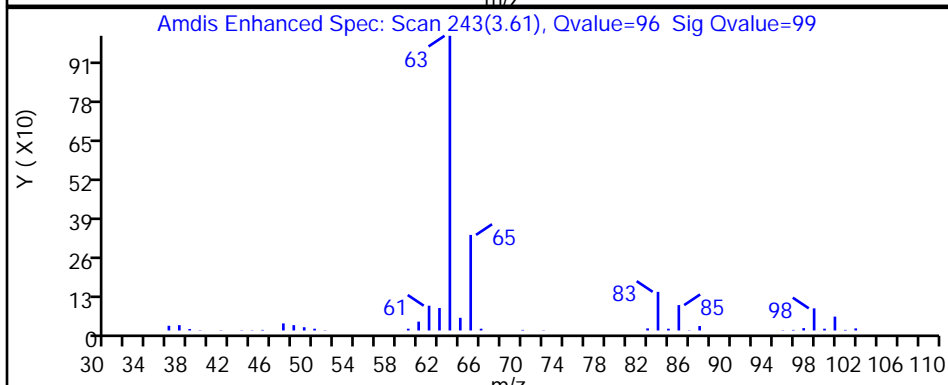
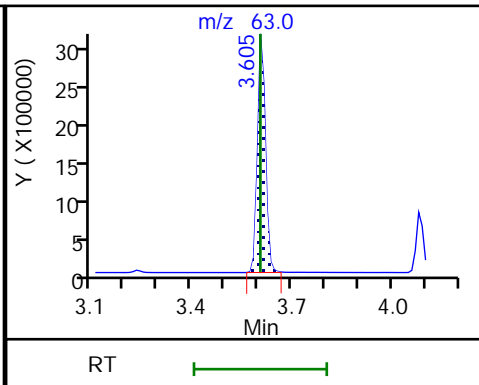
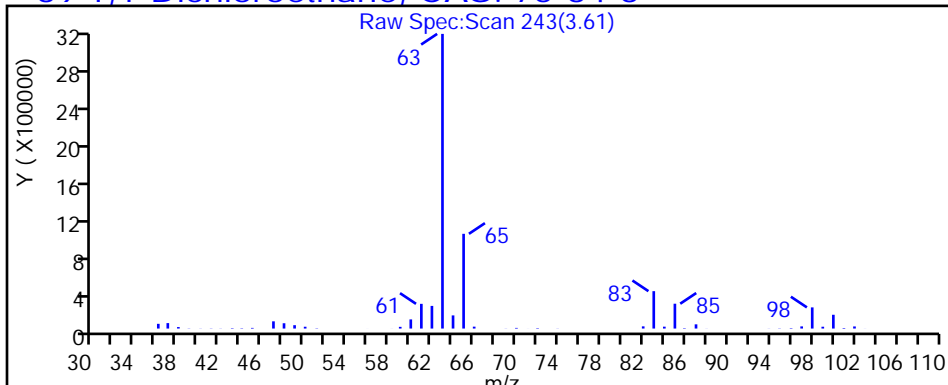
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

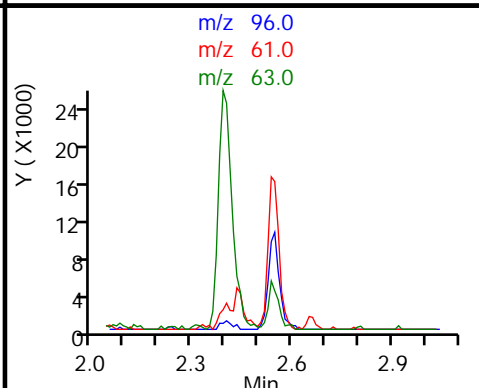
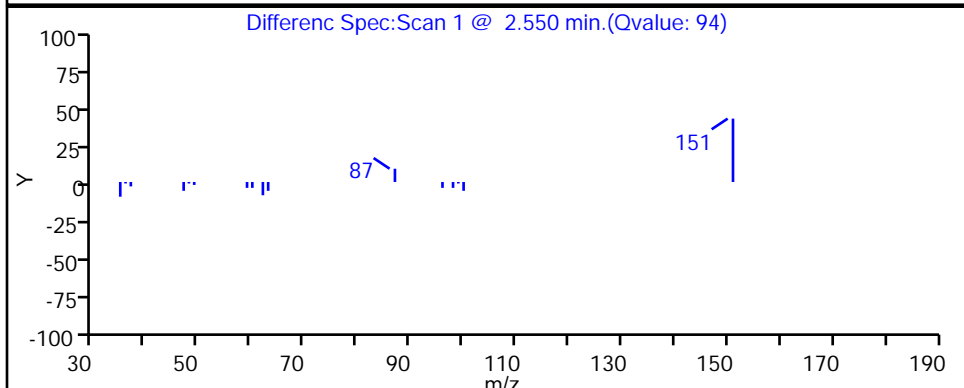
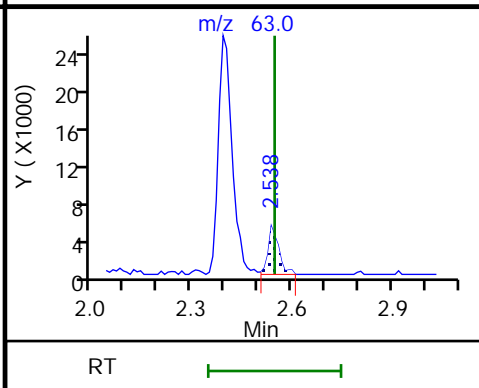
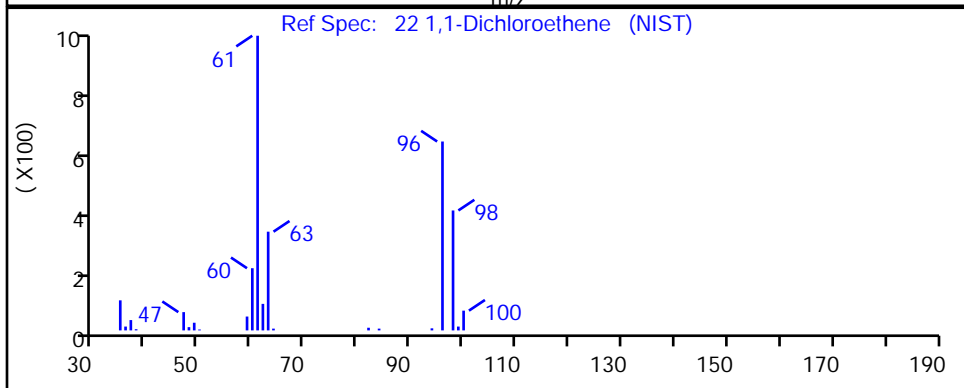
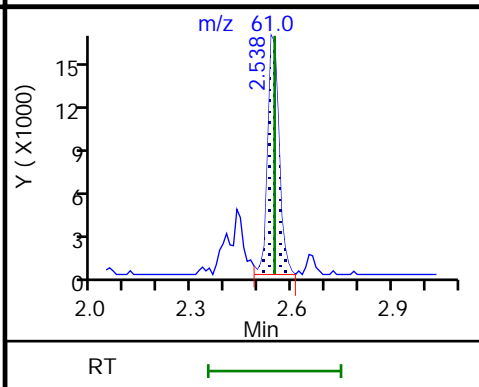
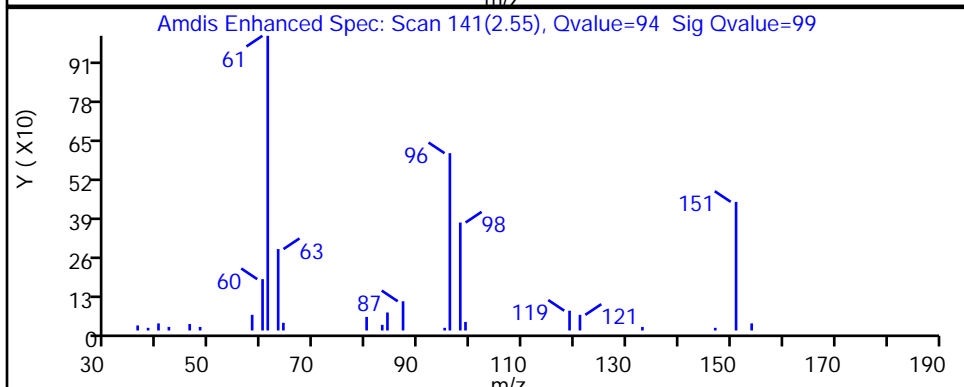
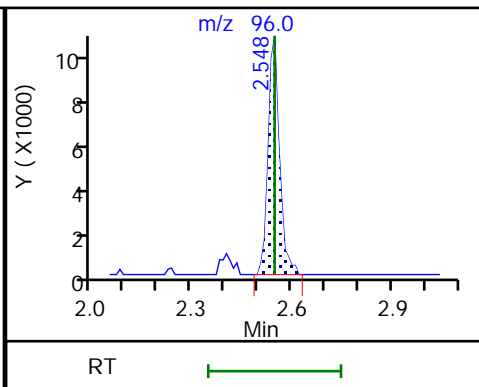
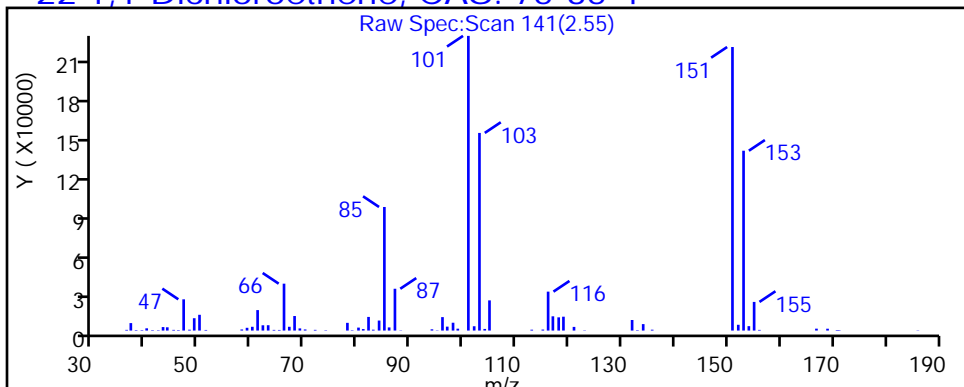
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

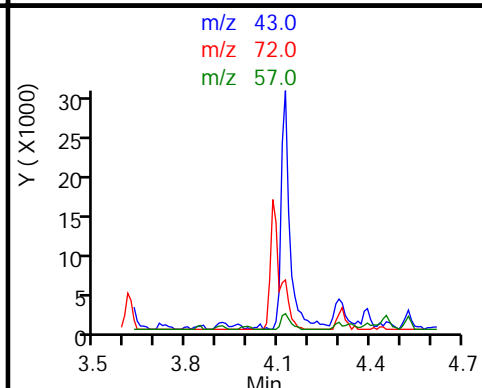
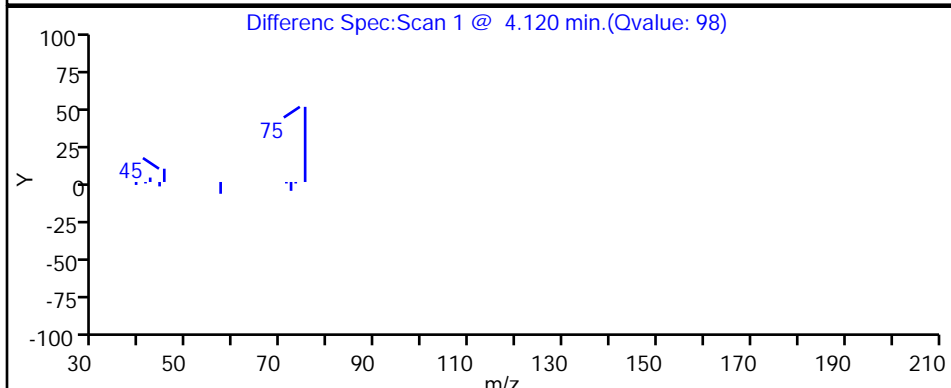
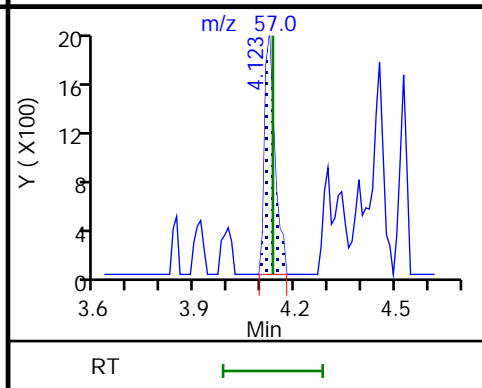
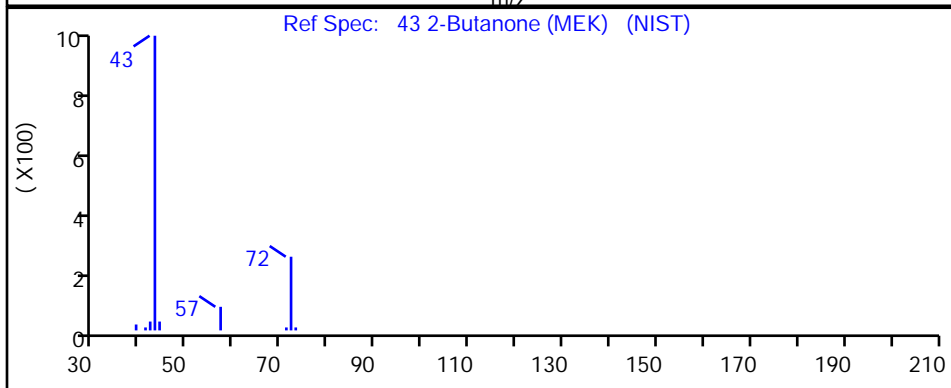
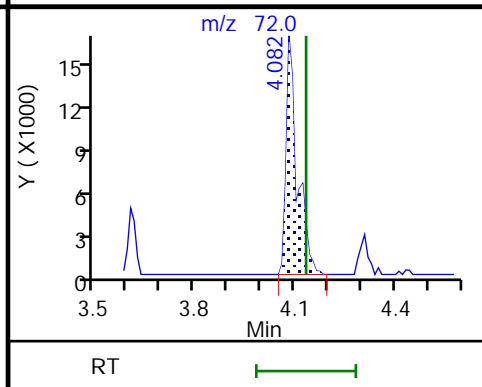
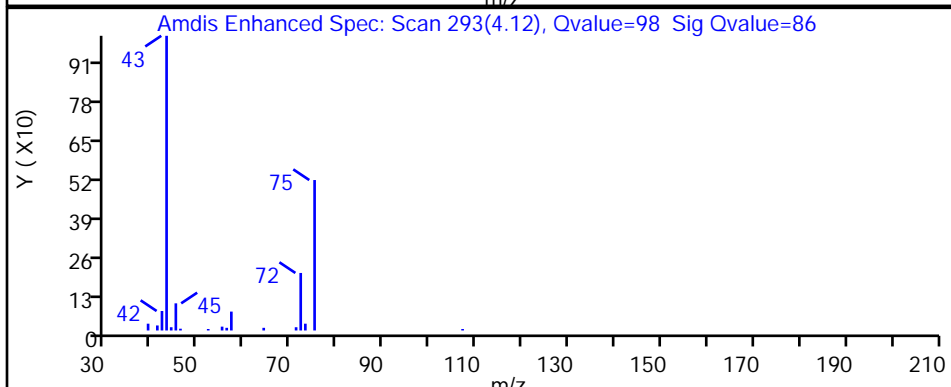
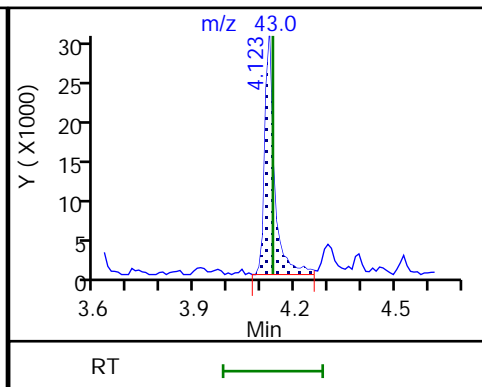
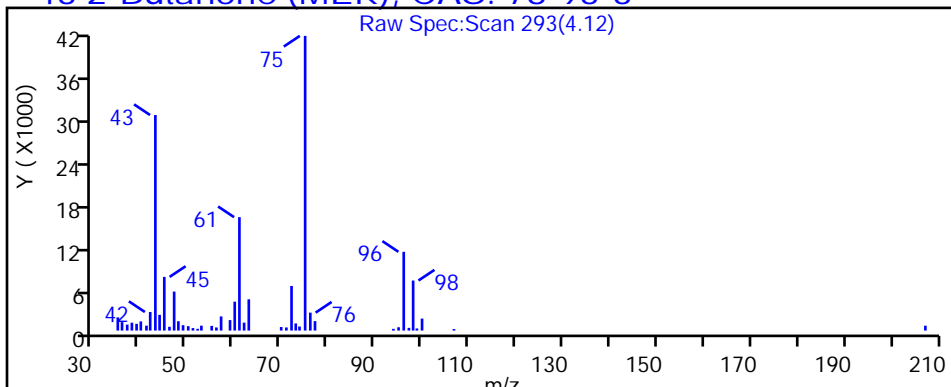
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

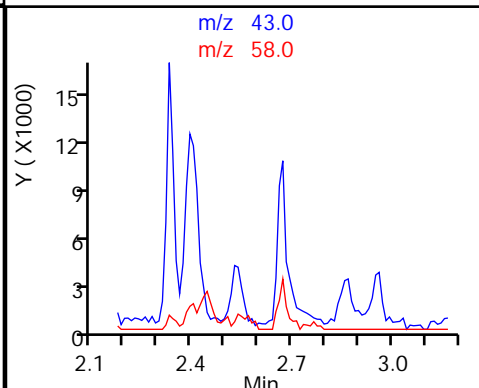
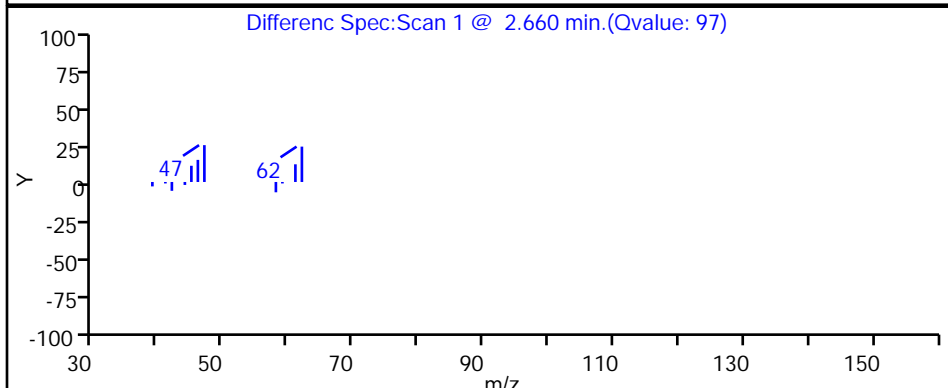
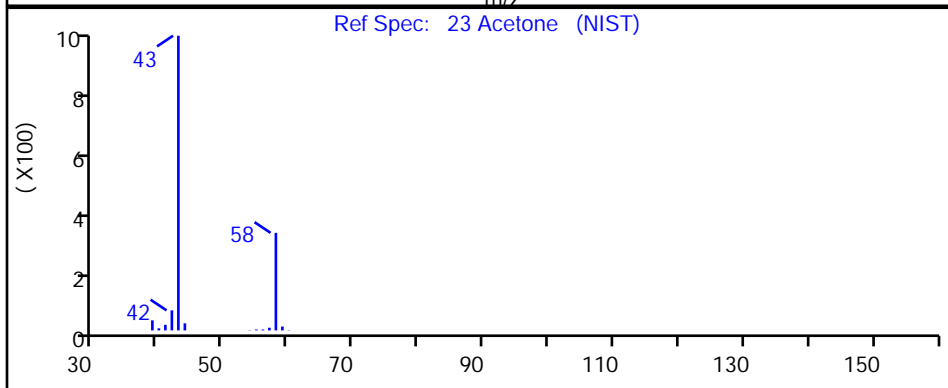
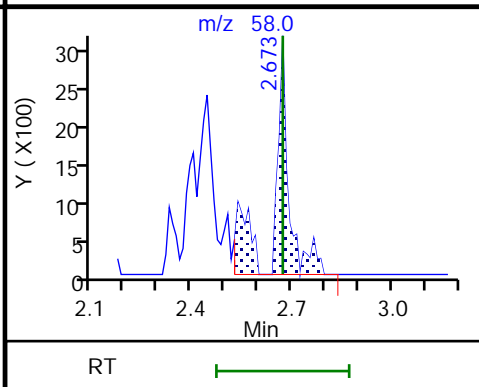
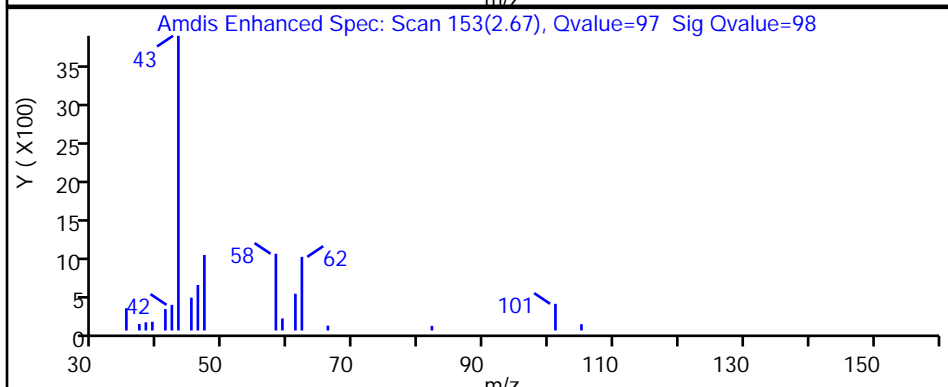
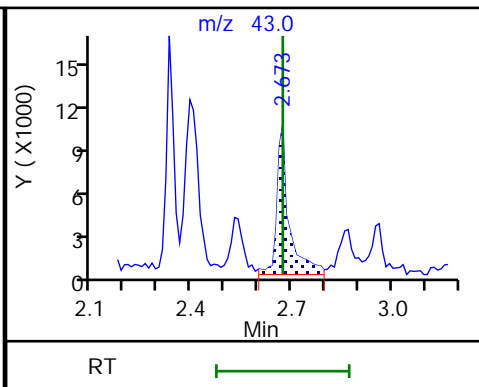
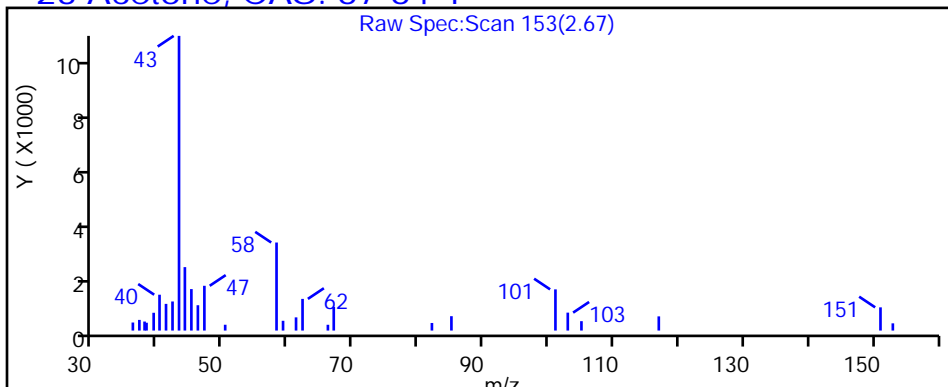
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

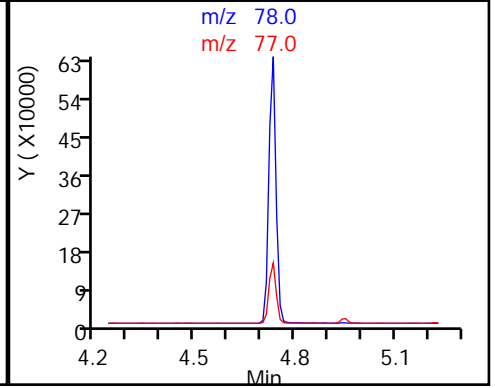
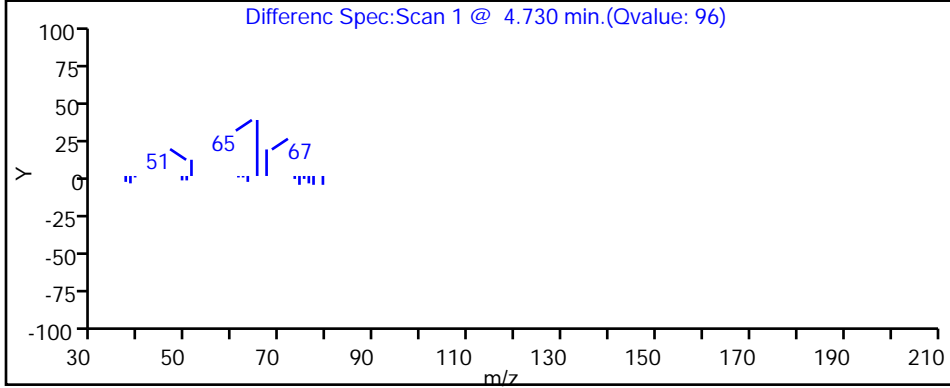
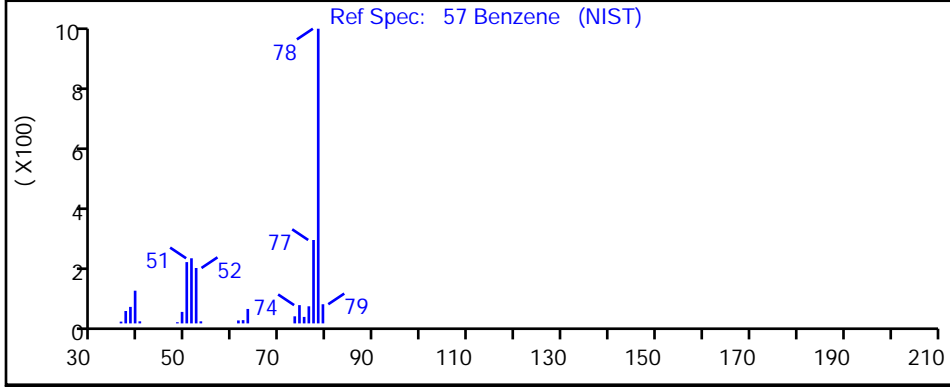
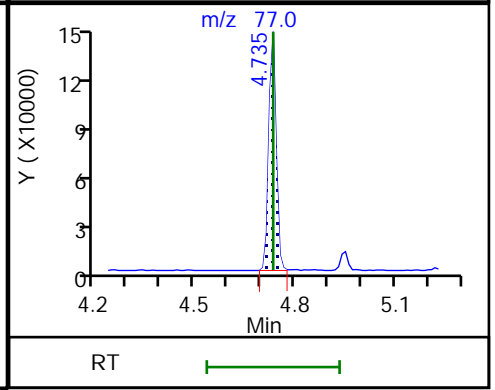
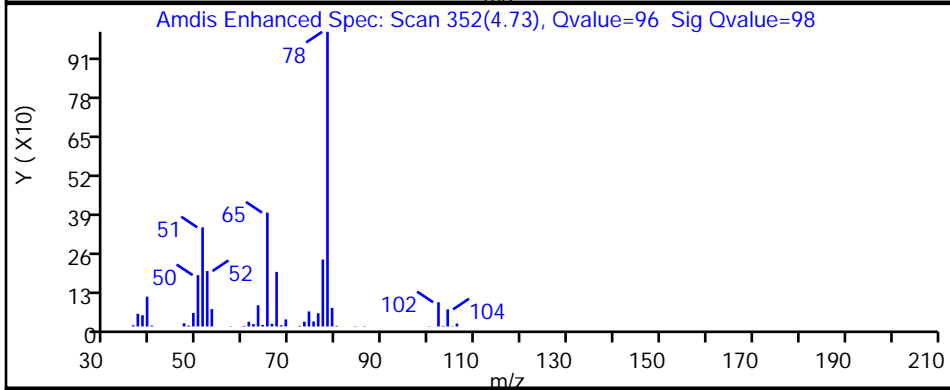
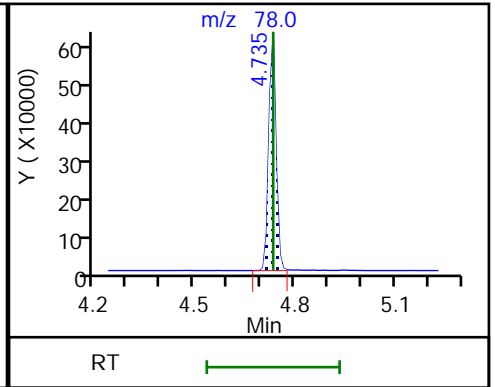
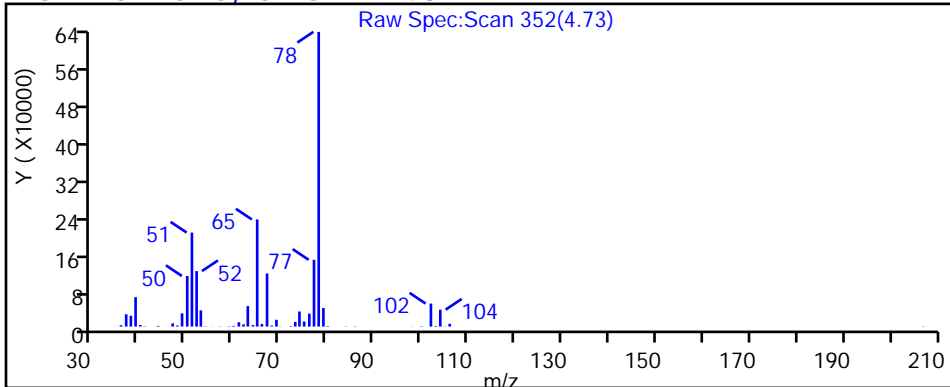
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

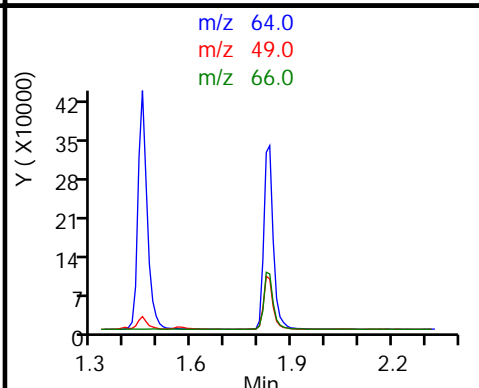
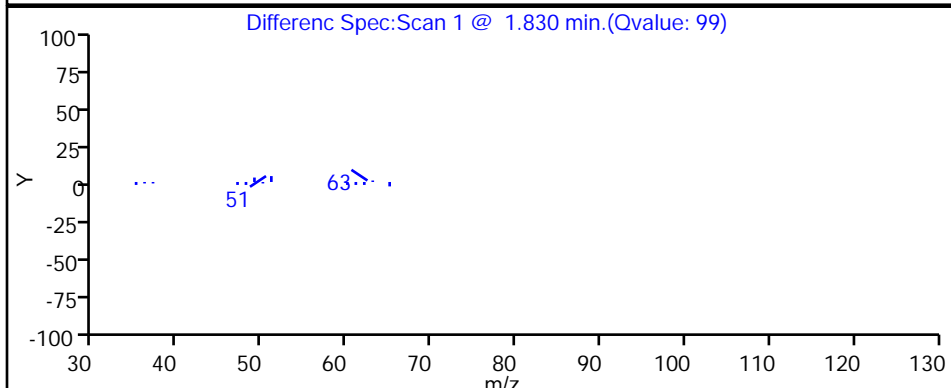
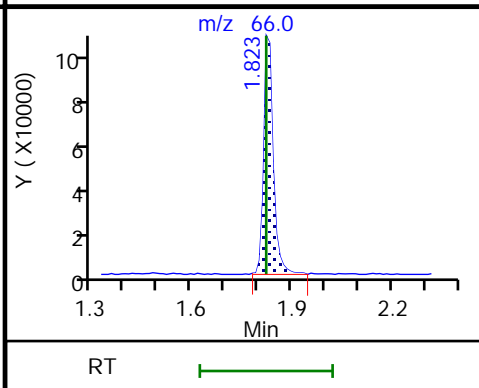
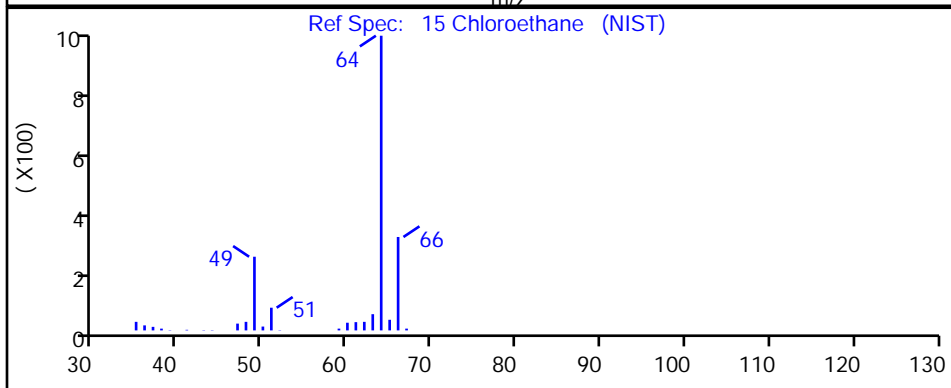
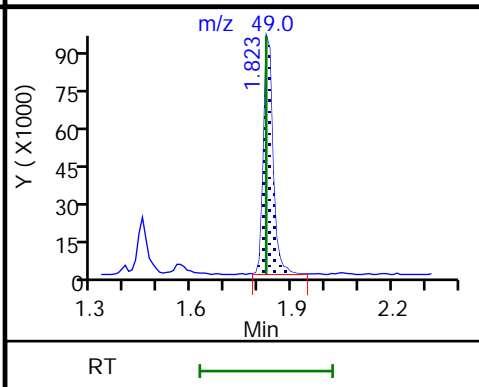
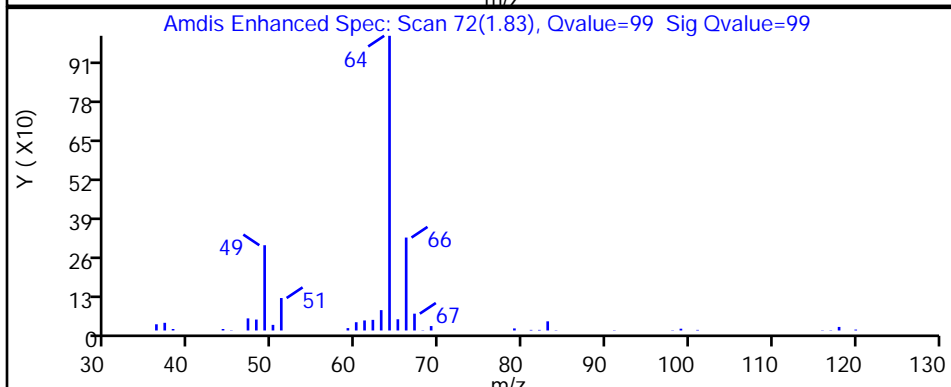
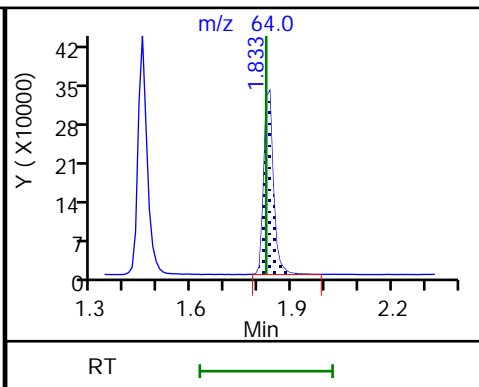
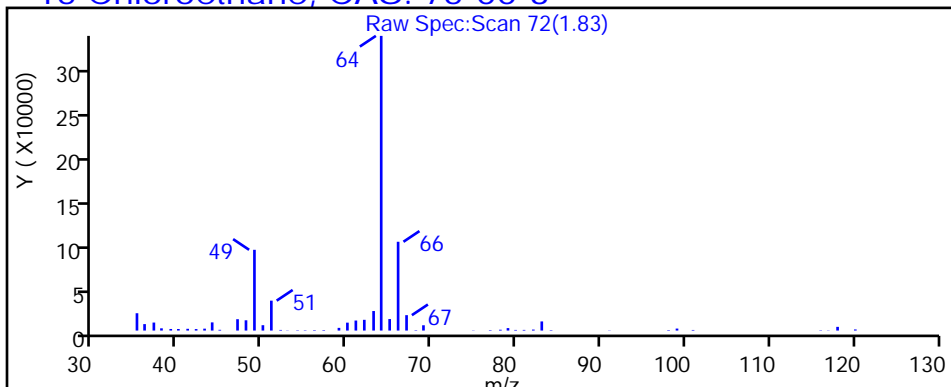
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

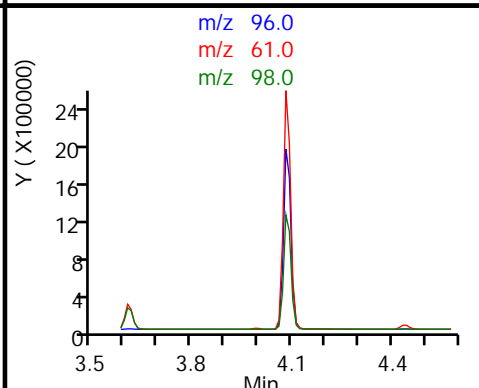
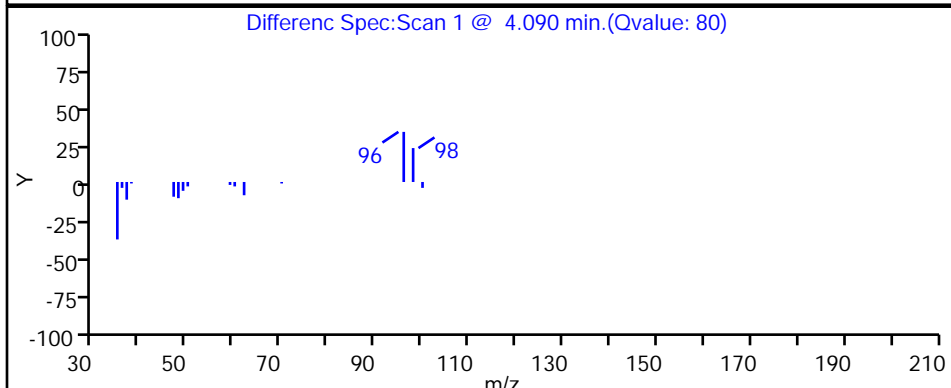
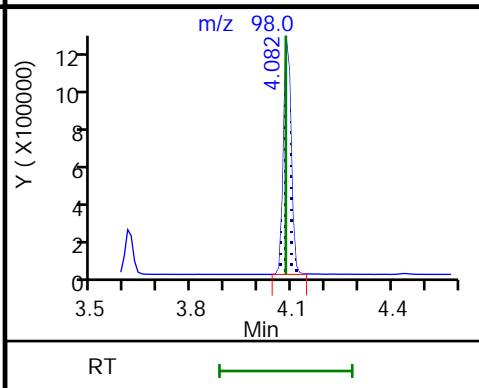
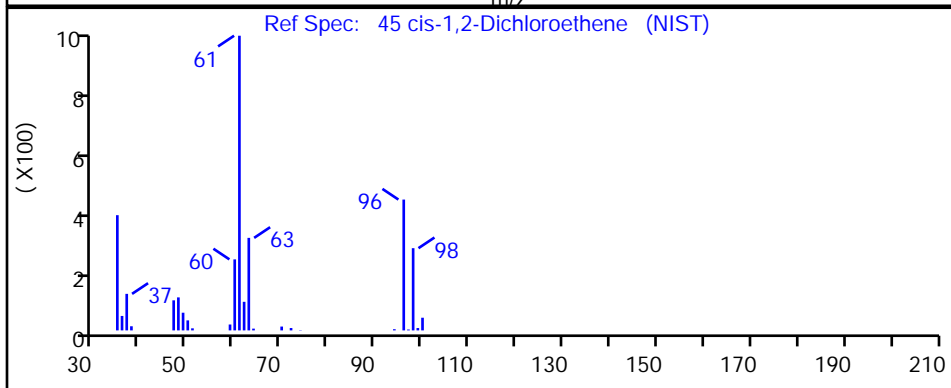
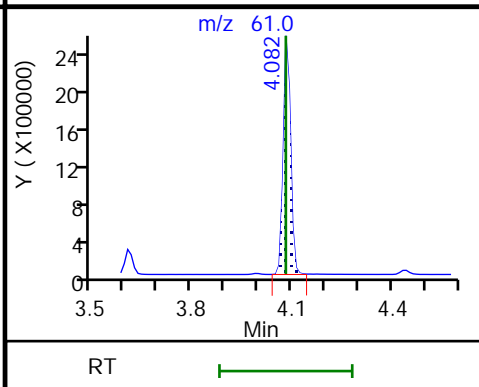
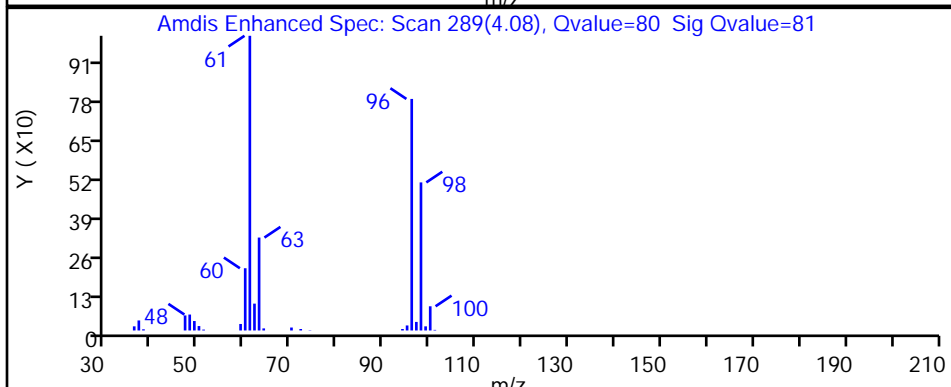
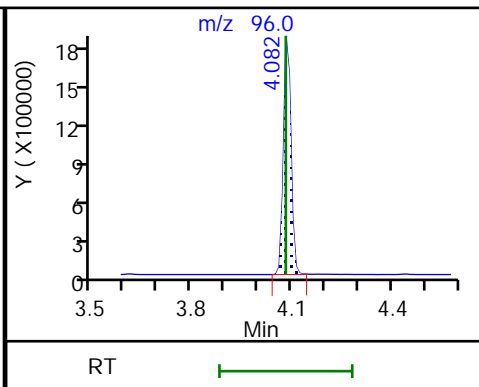
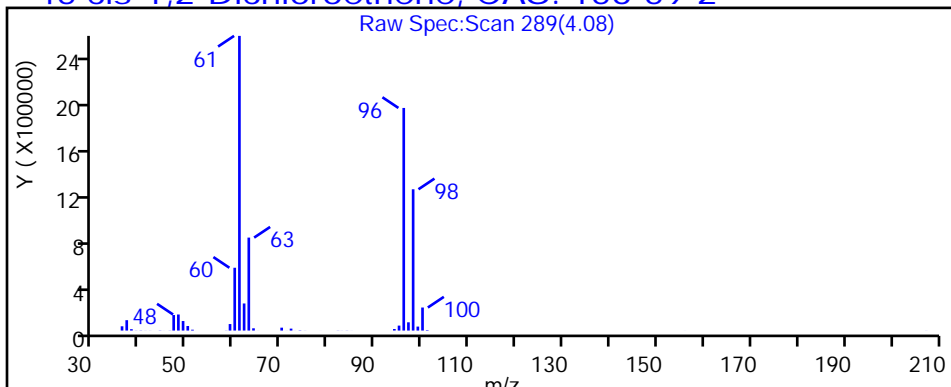
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

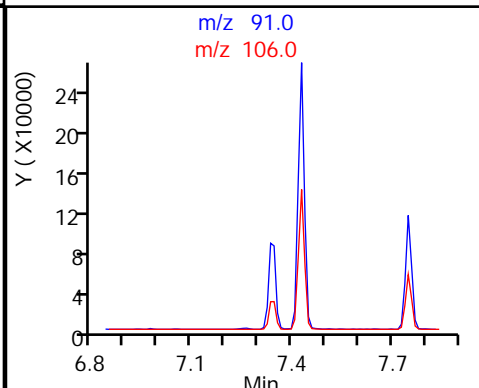
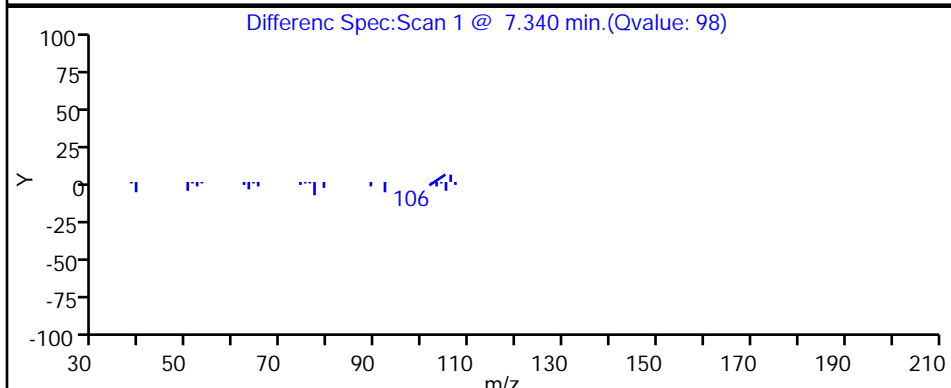
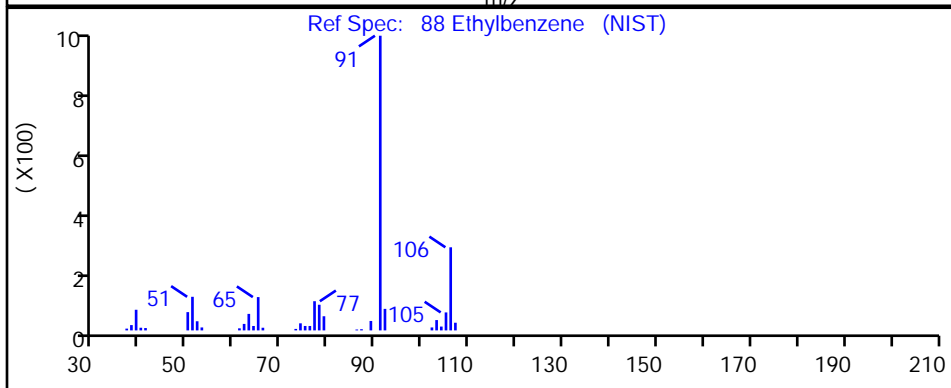
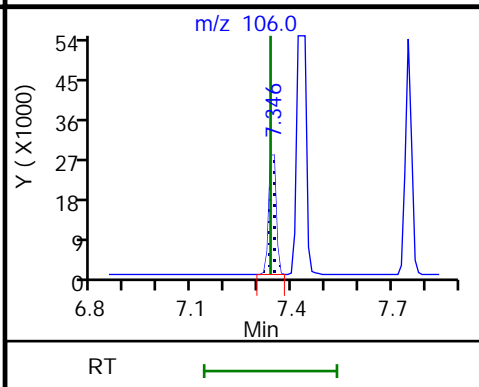
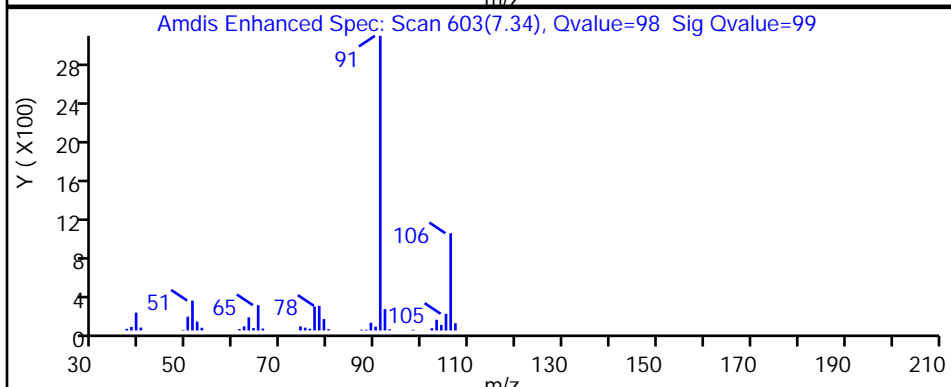
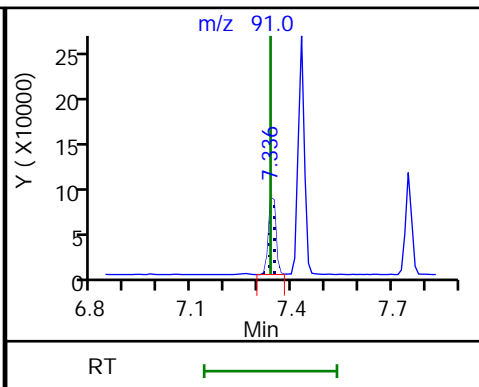
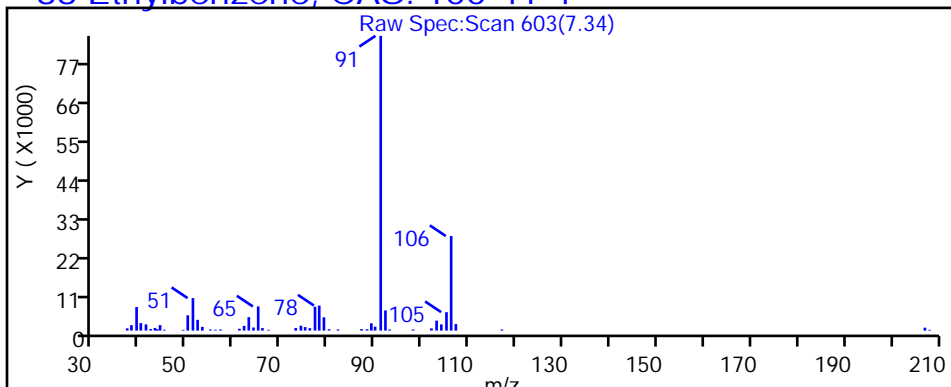
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

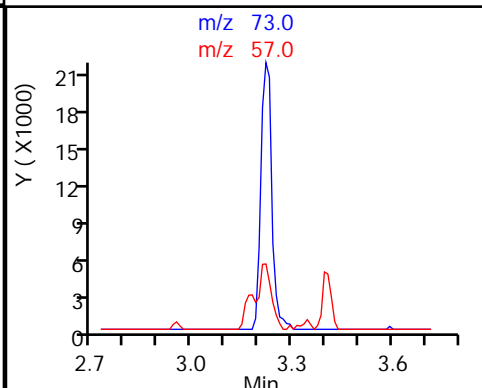
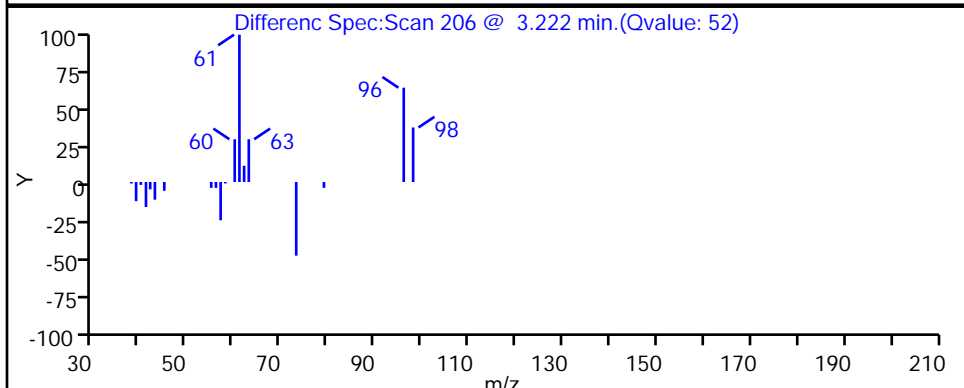
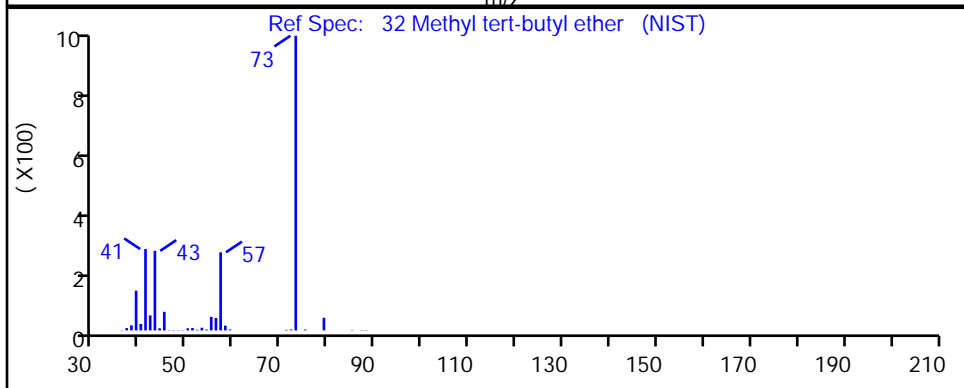
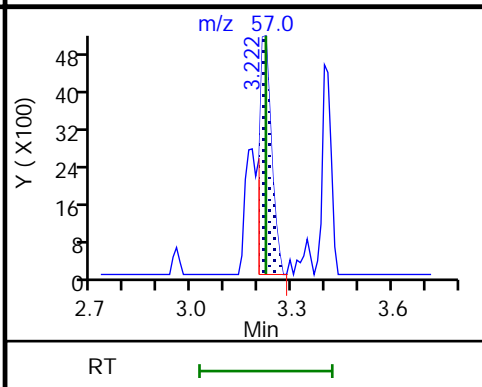
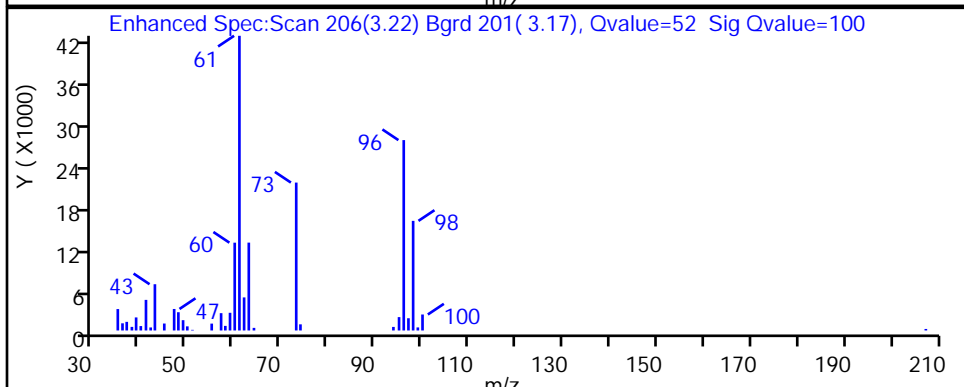
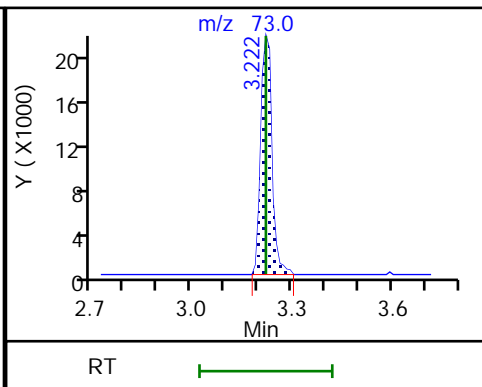
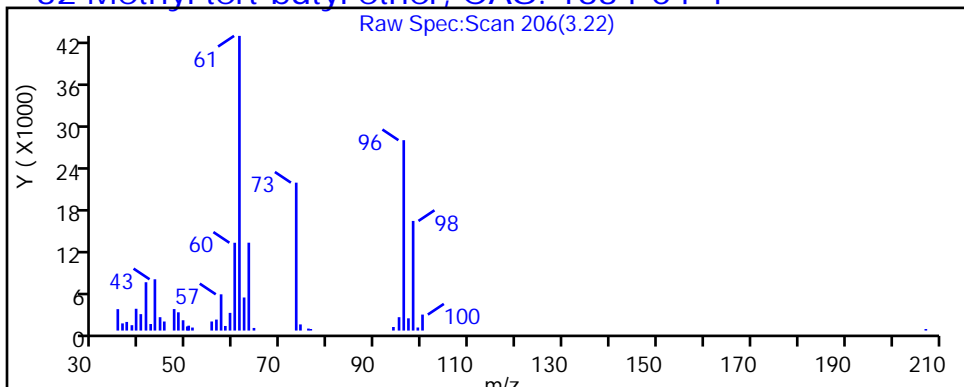
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

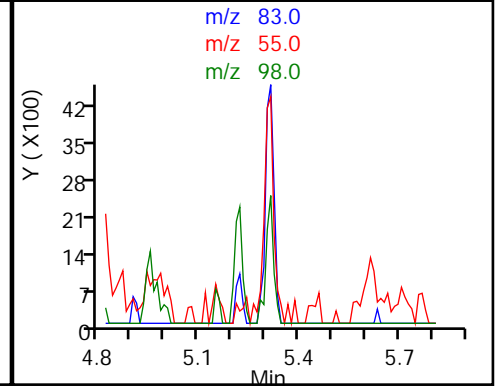
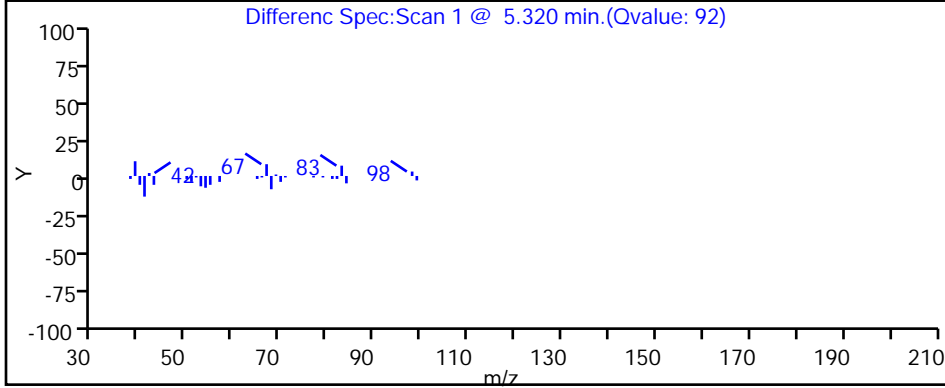
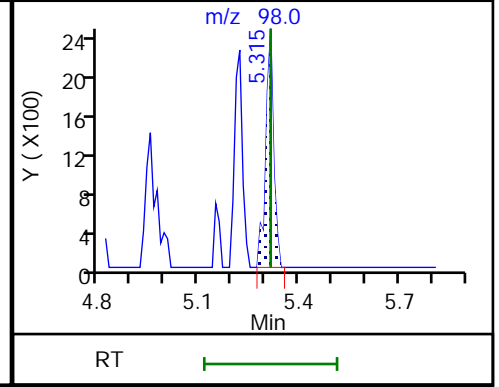
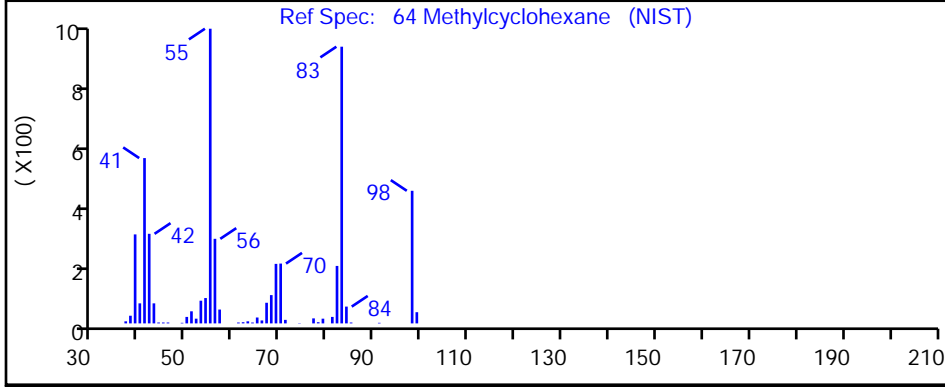
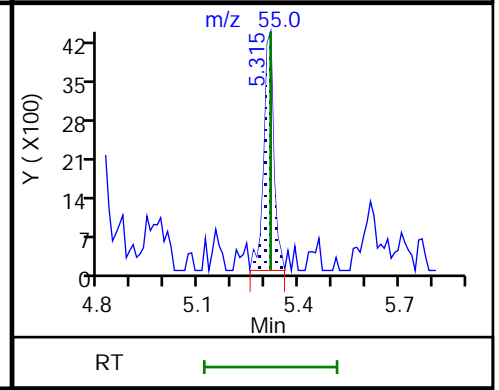
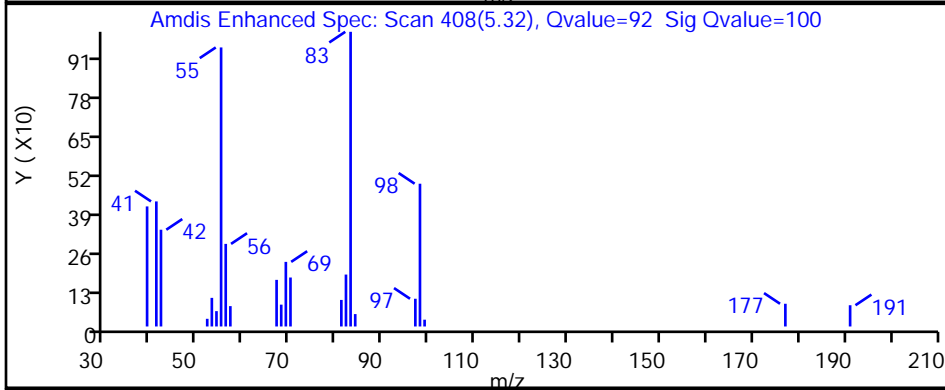
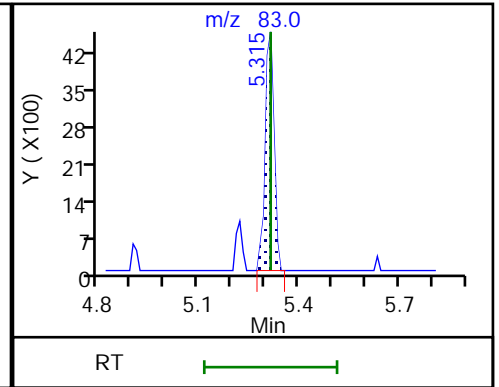
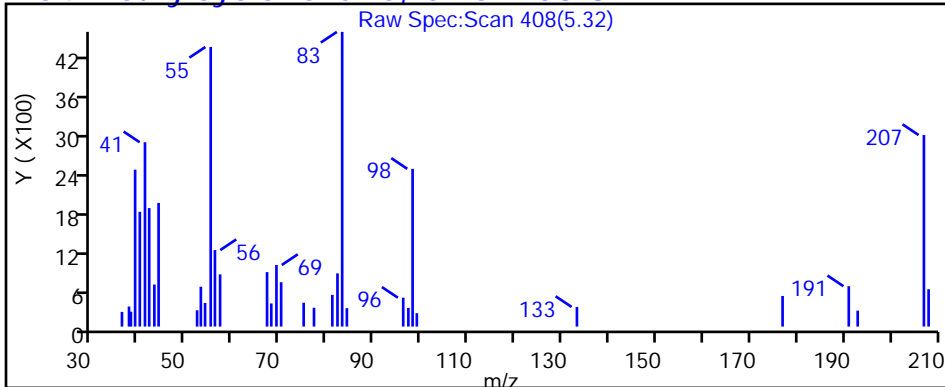
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

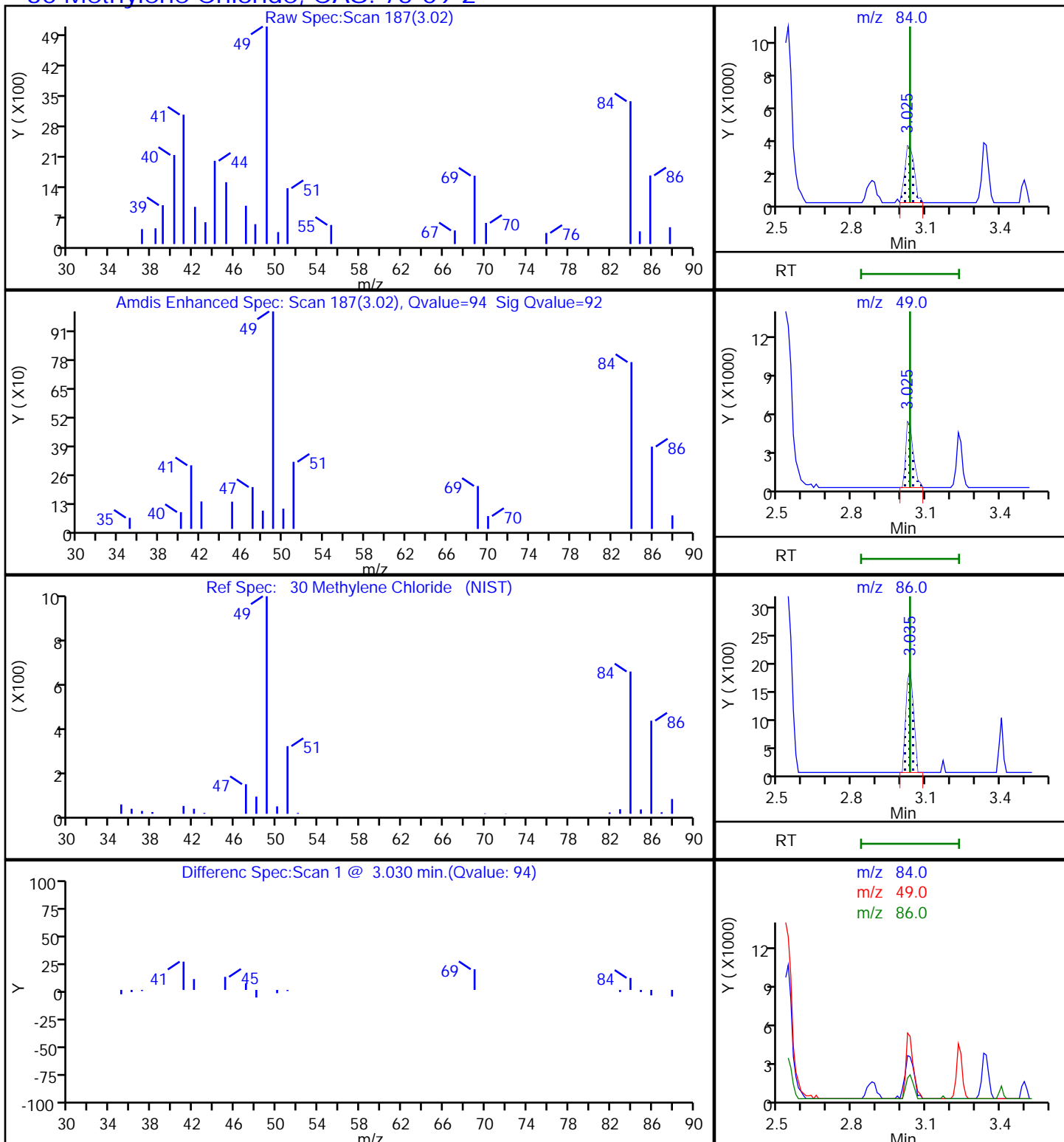
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

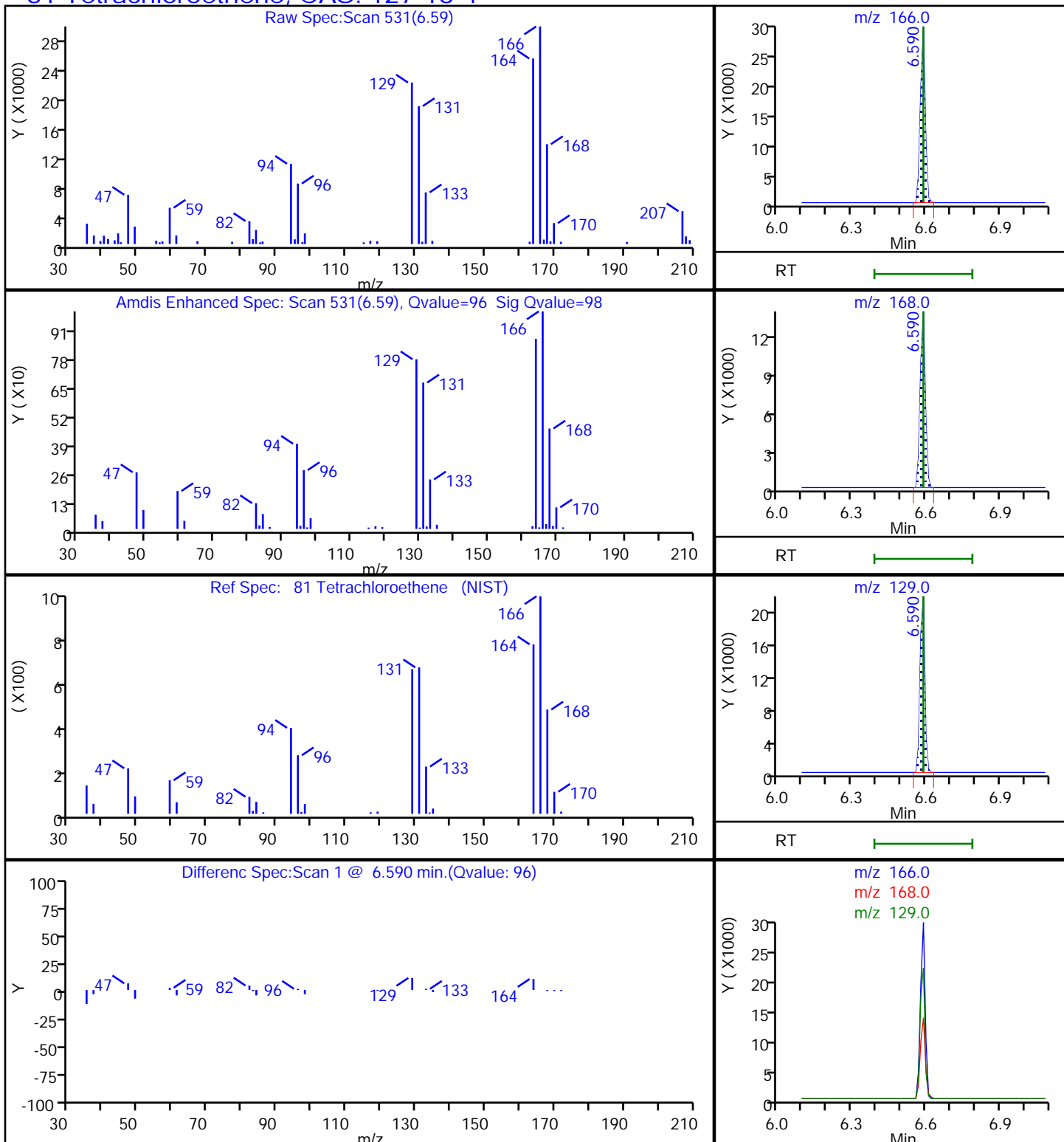
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

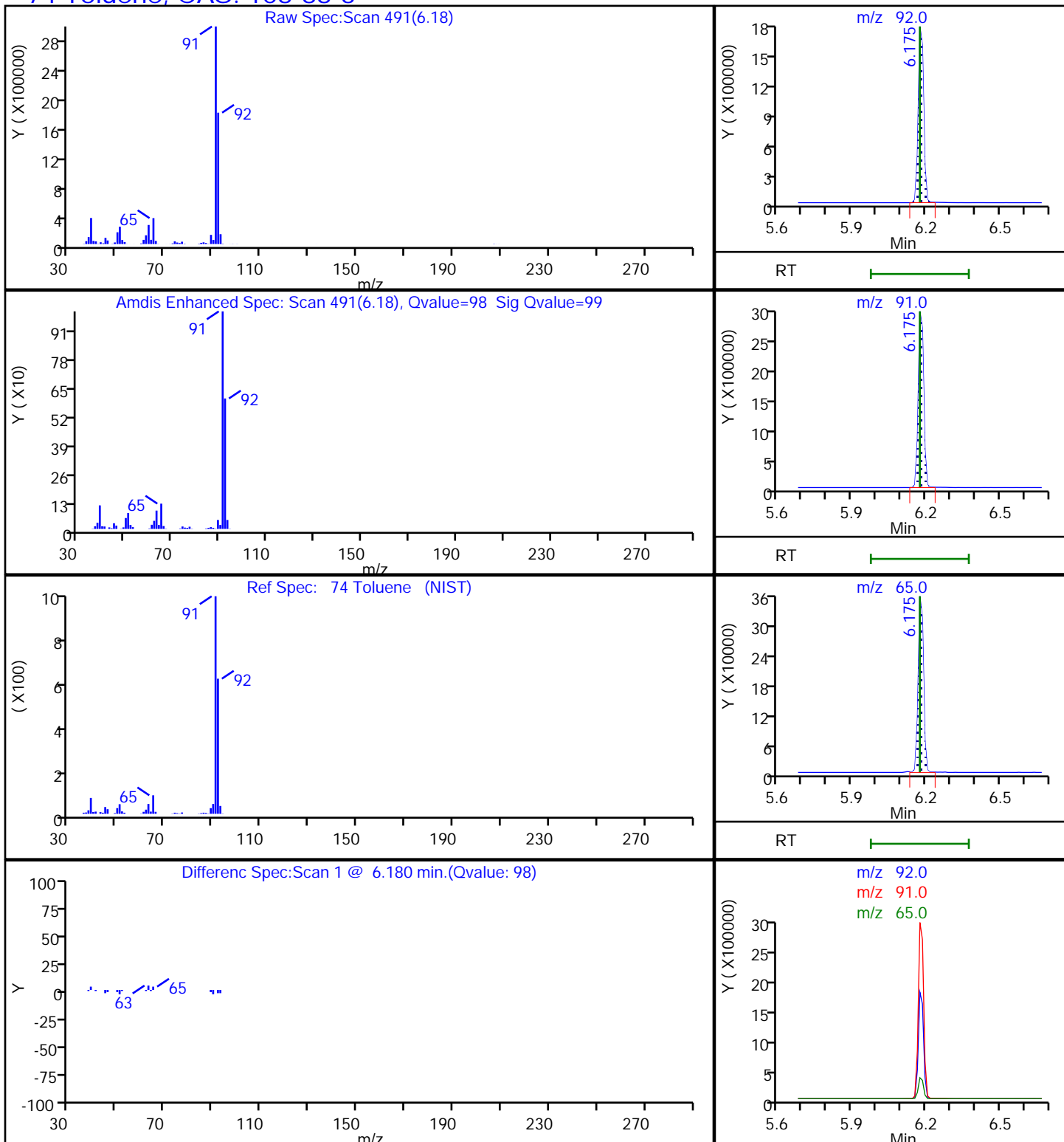
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

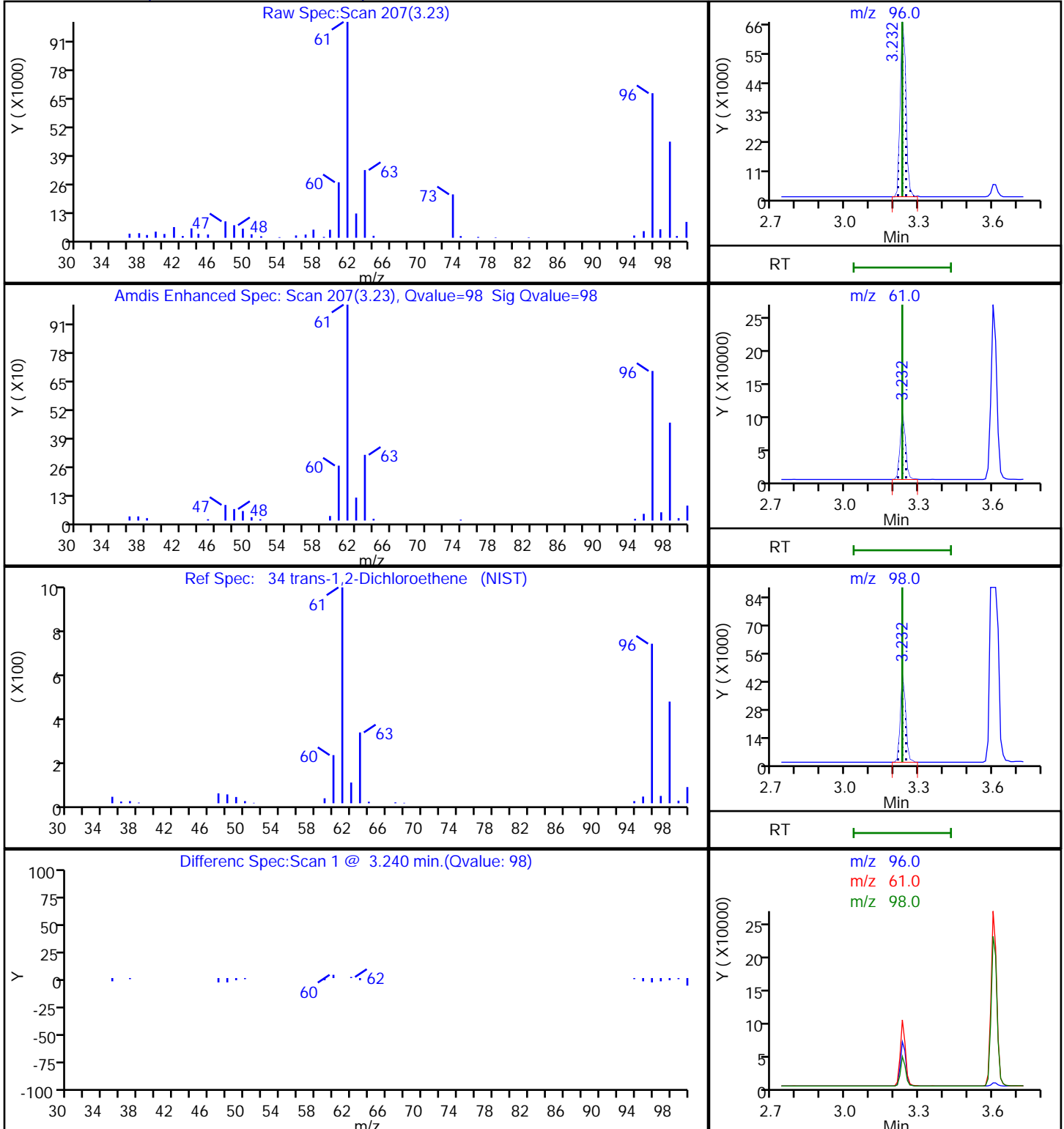
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

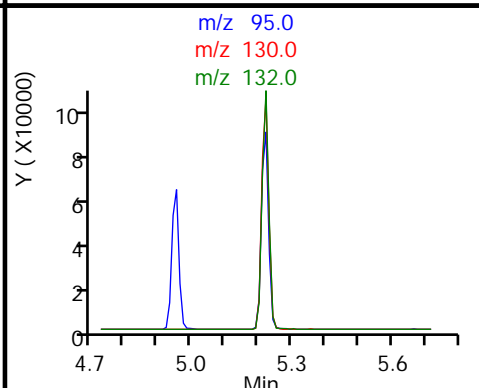
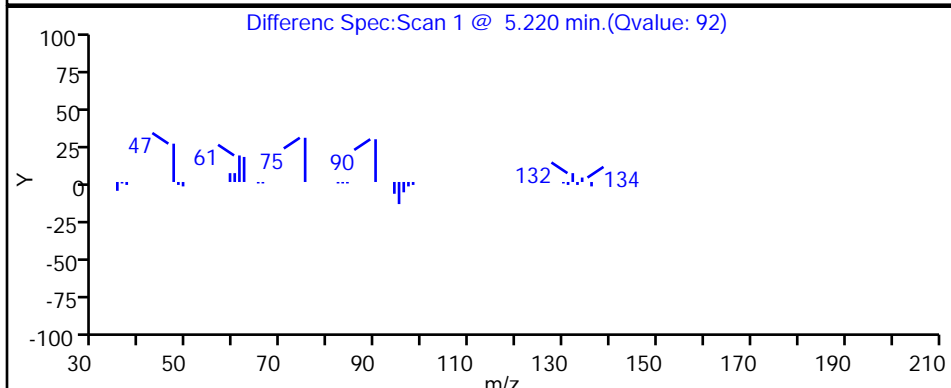
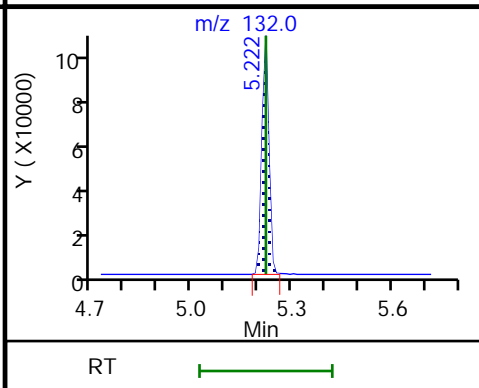
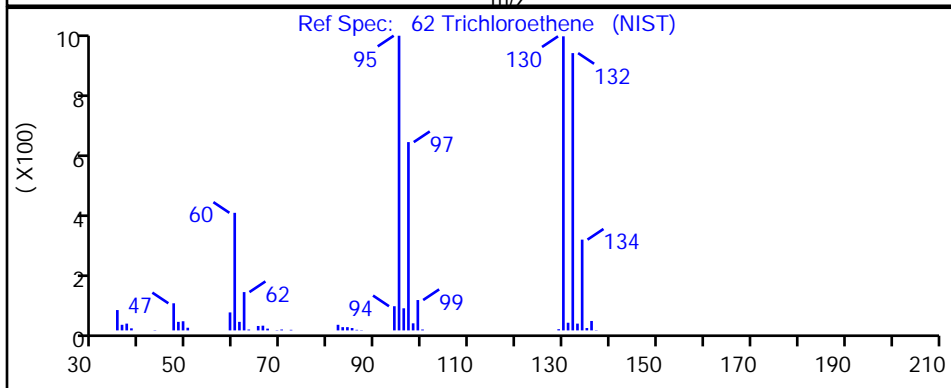
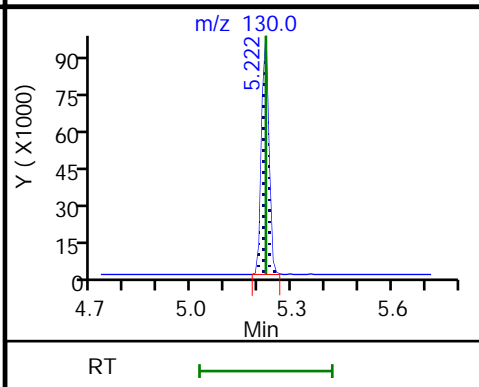
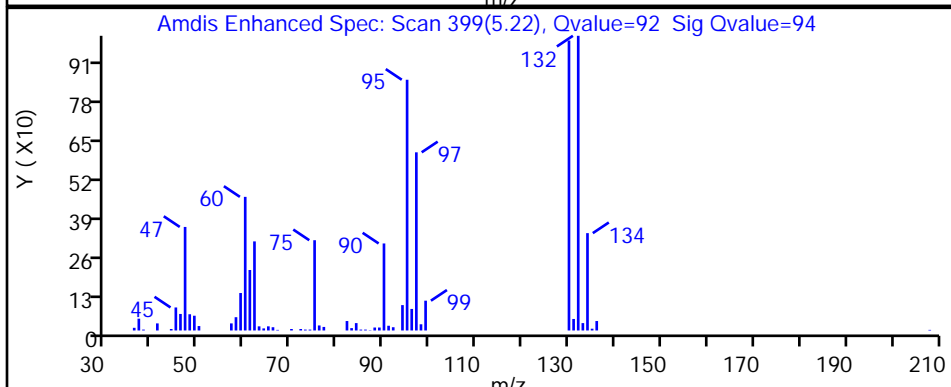
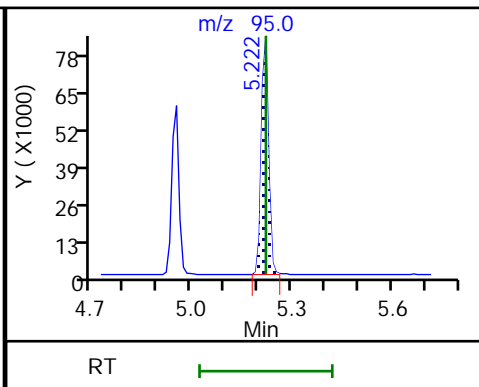
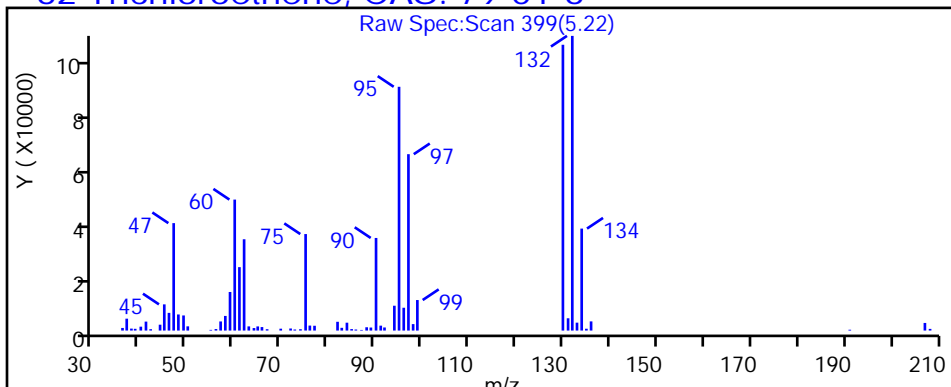
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

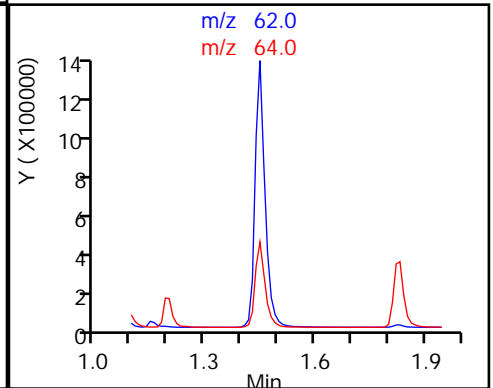
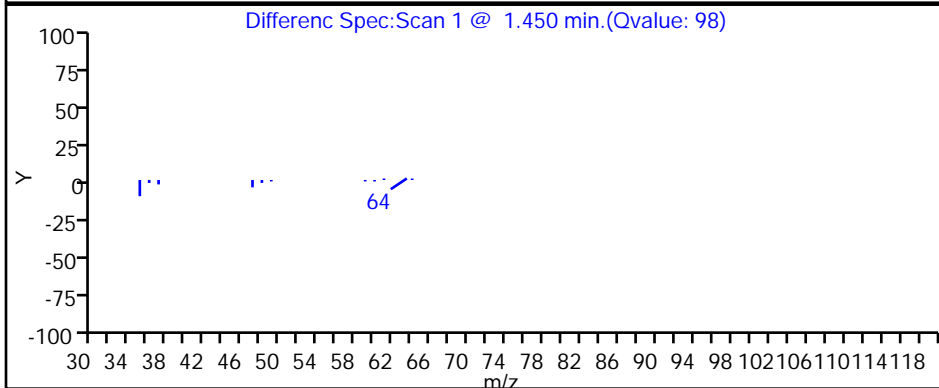
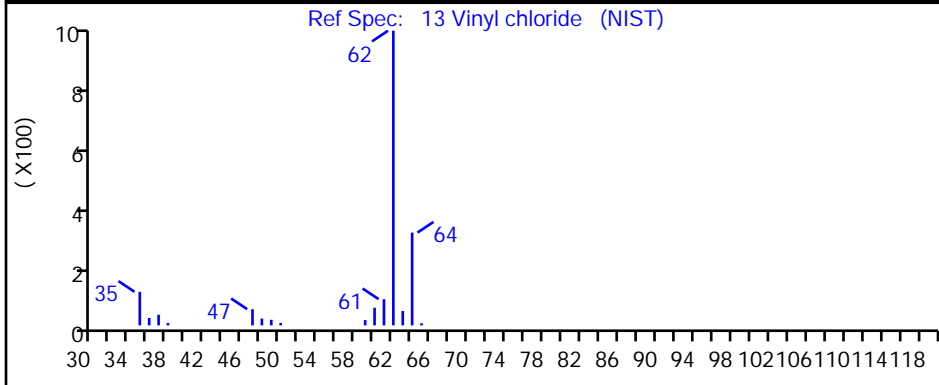
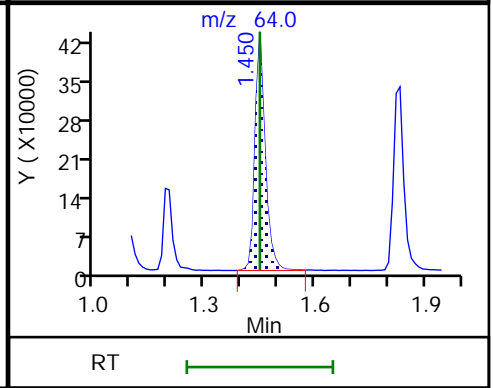
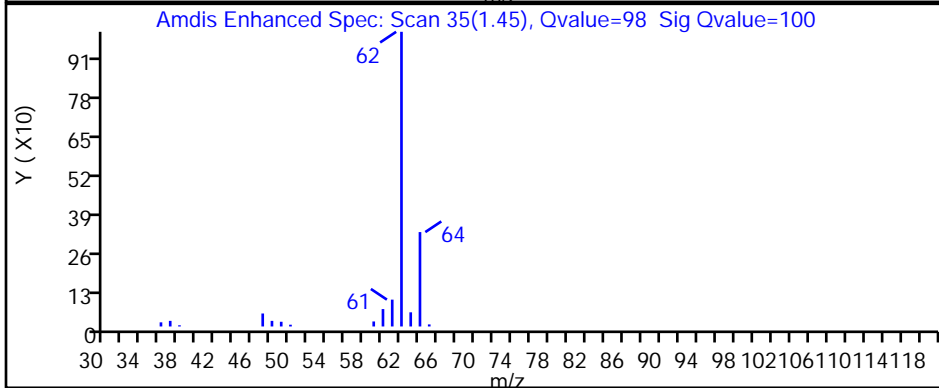
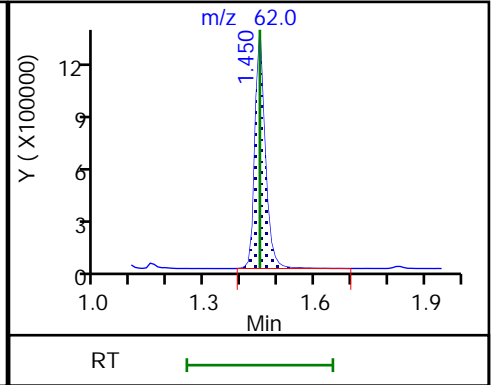
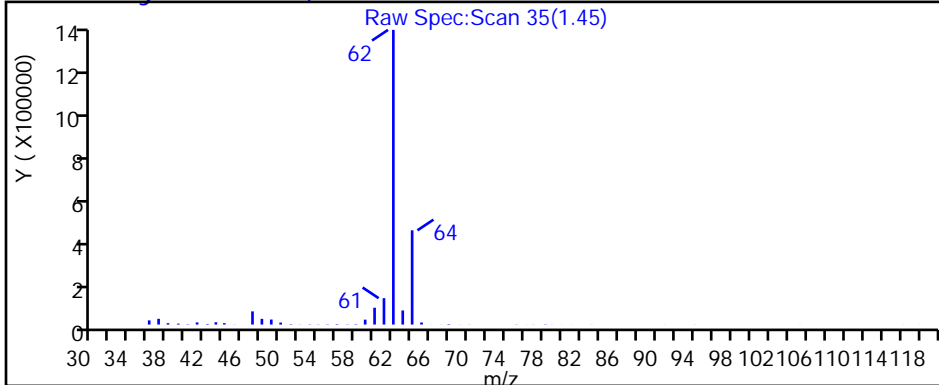
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

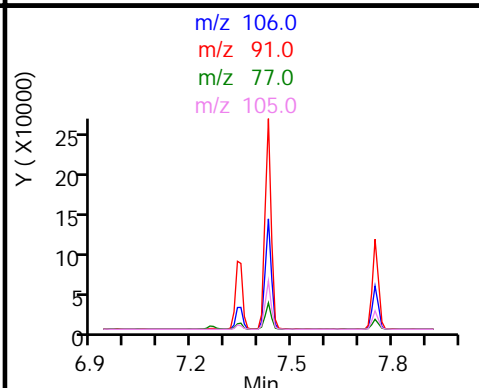
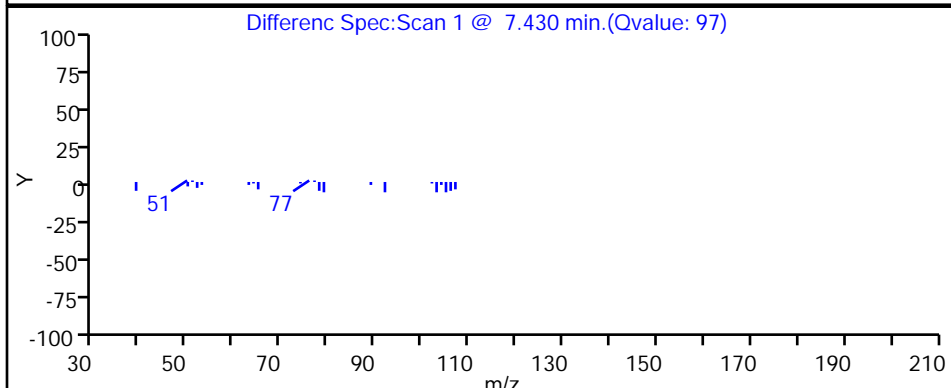
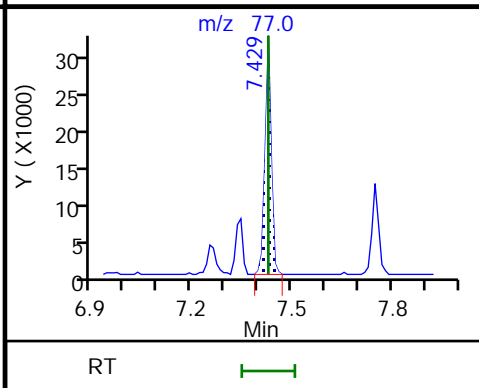
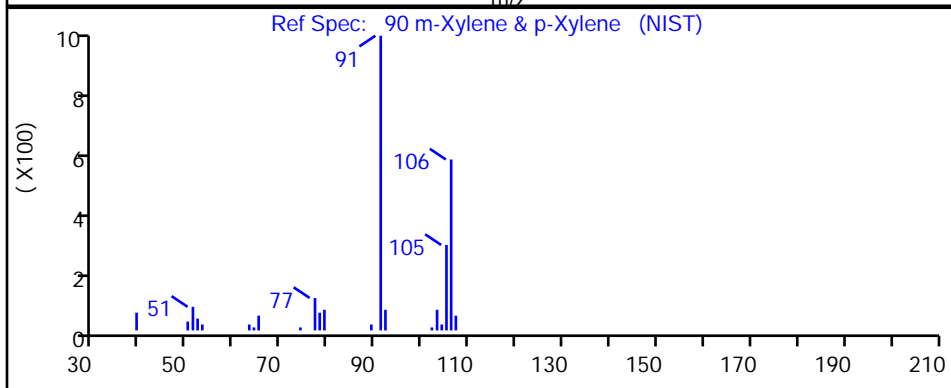
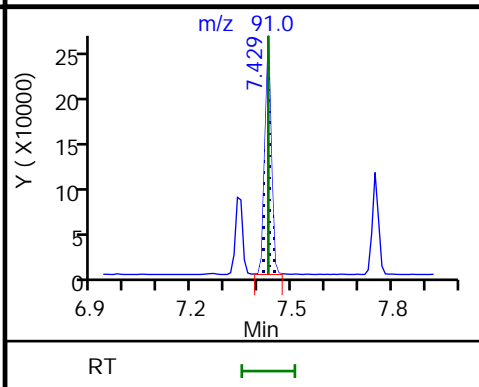
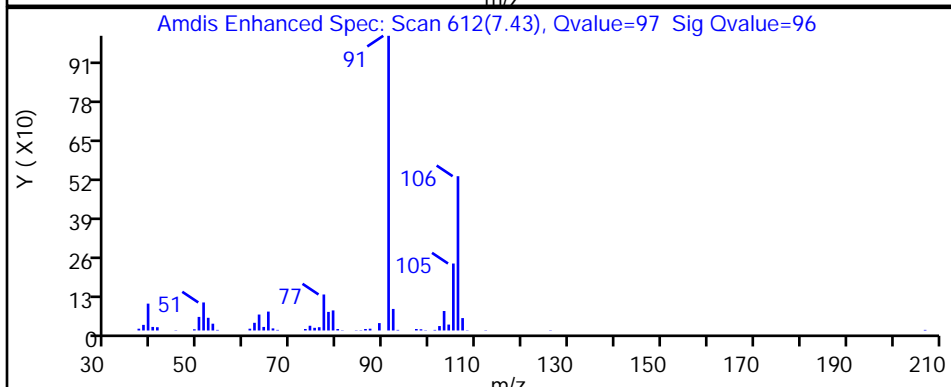
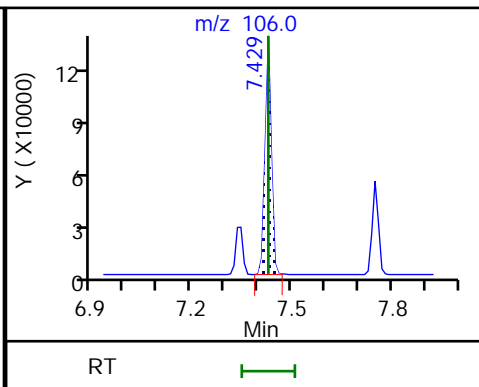
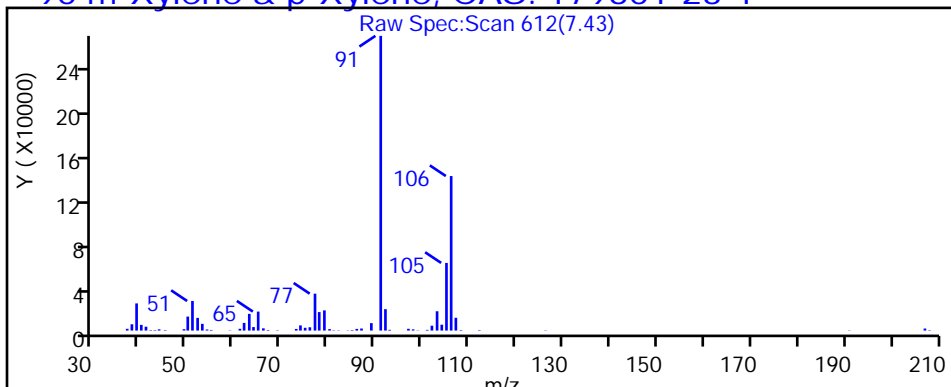
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

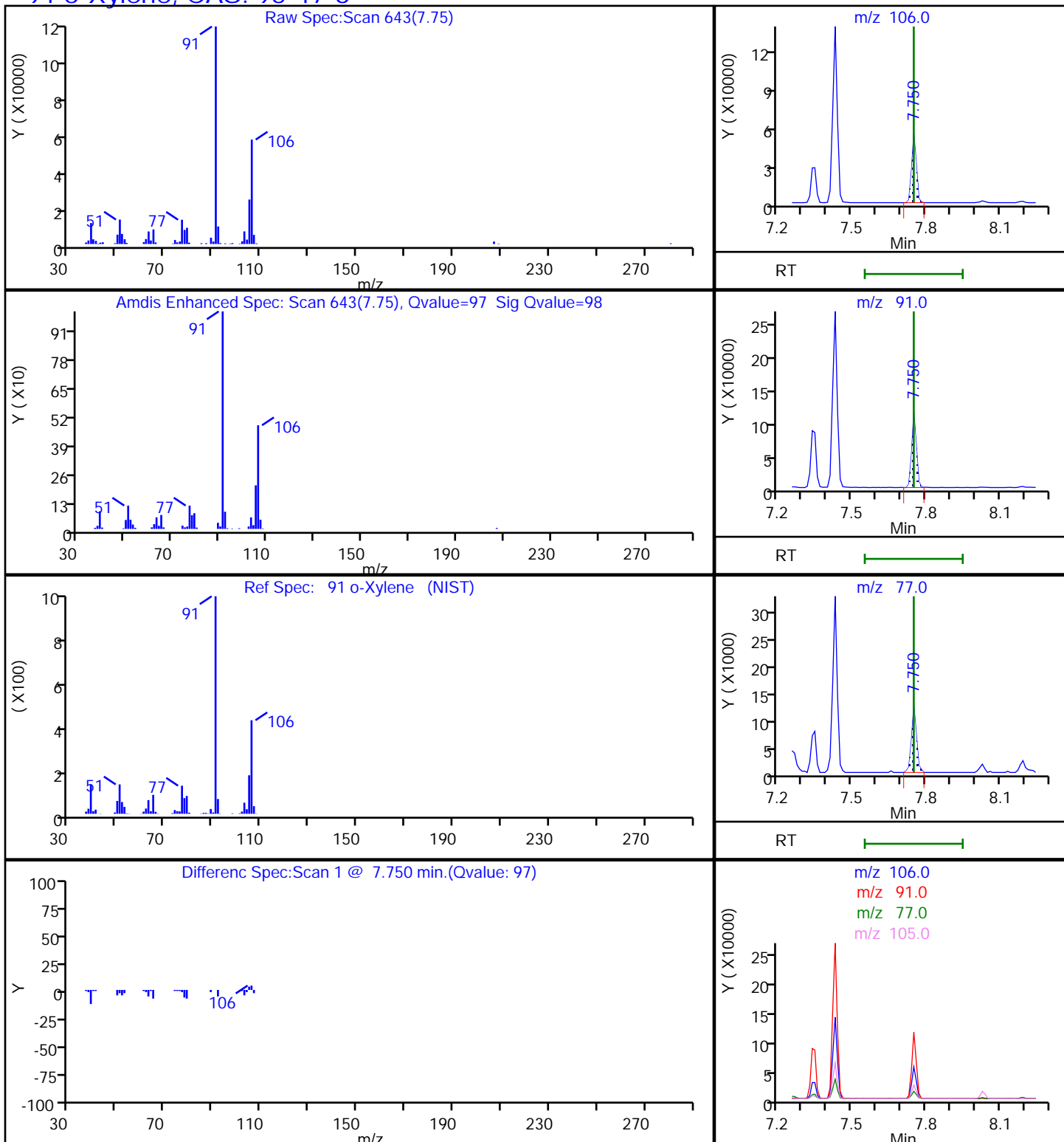
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

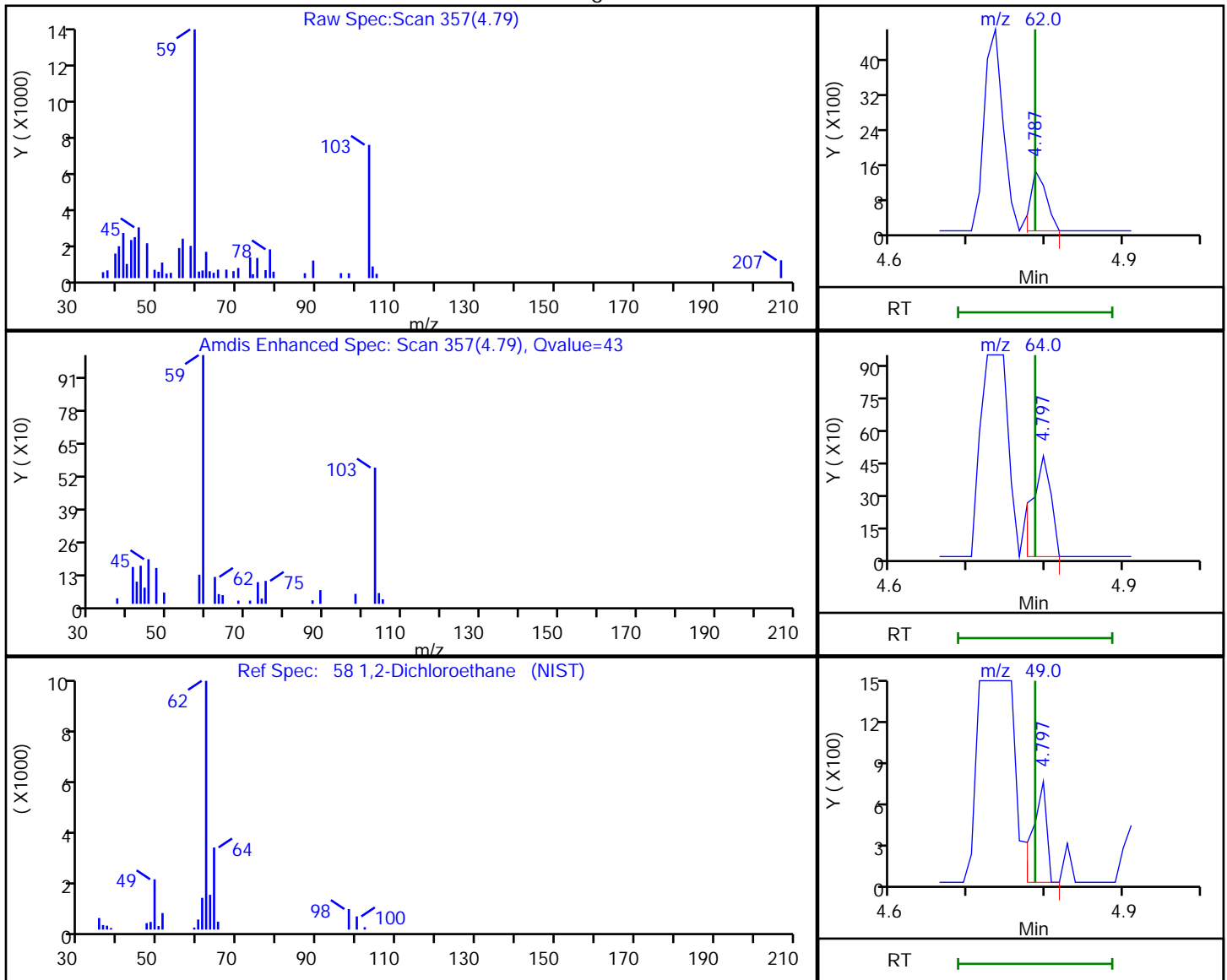
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.79	62.00	1998	0.098562
4.80	64.00	805	
4.80	49.00	921	

Reviewer: carrolln, 01-Mar-2019 19:44:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

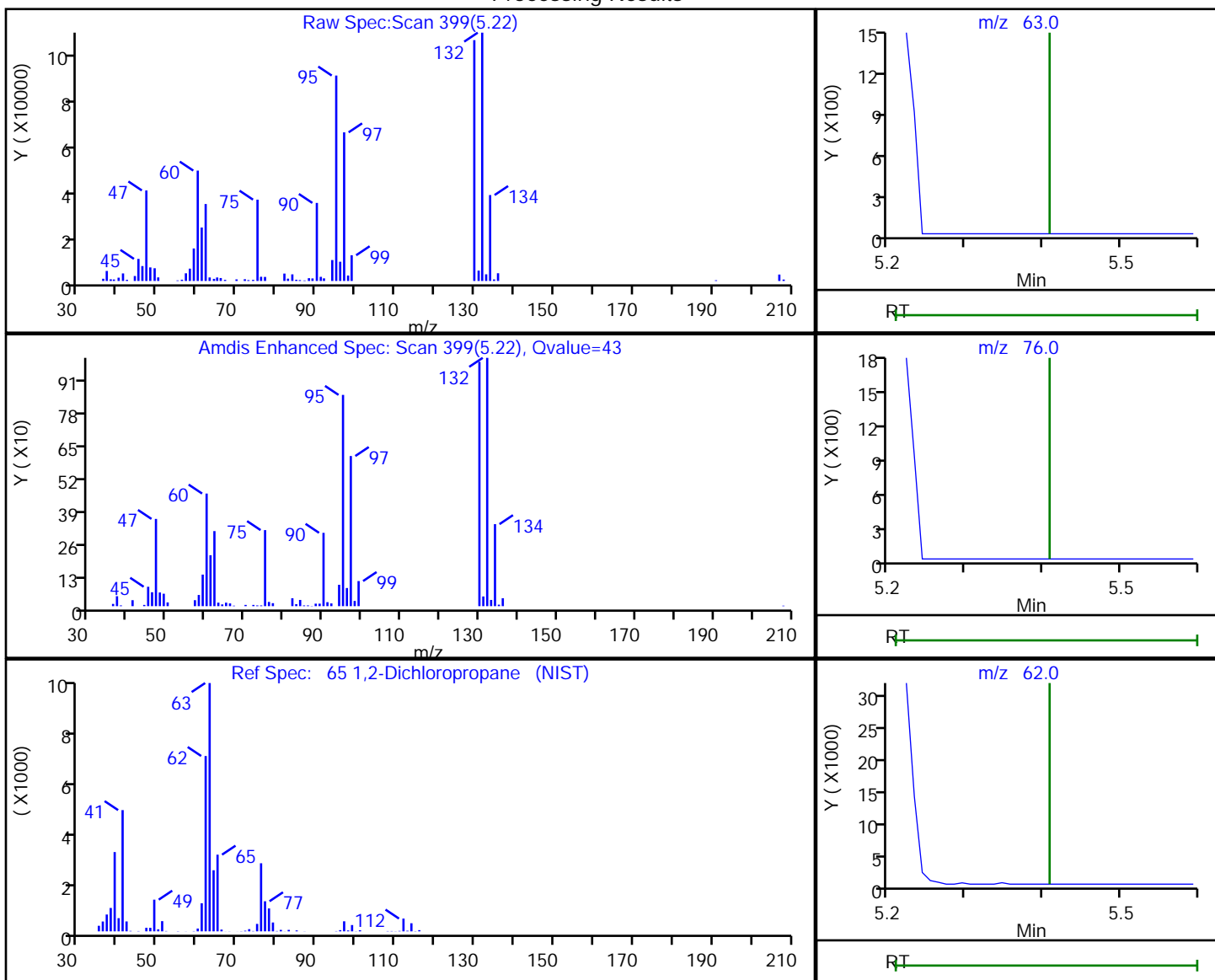
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

65 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
5.22	63.00	2247	0.181842
5.22	76.00	2580	
5.22	62.00	45452	

Reviewer: carrolln, 01-Mar-2019 19:44:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

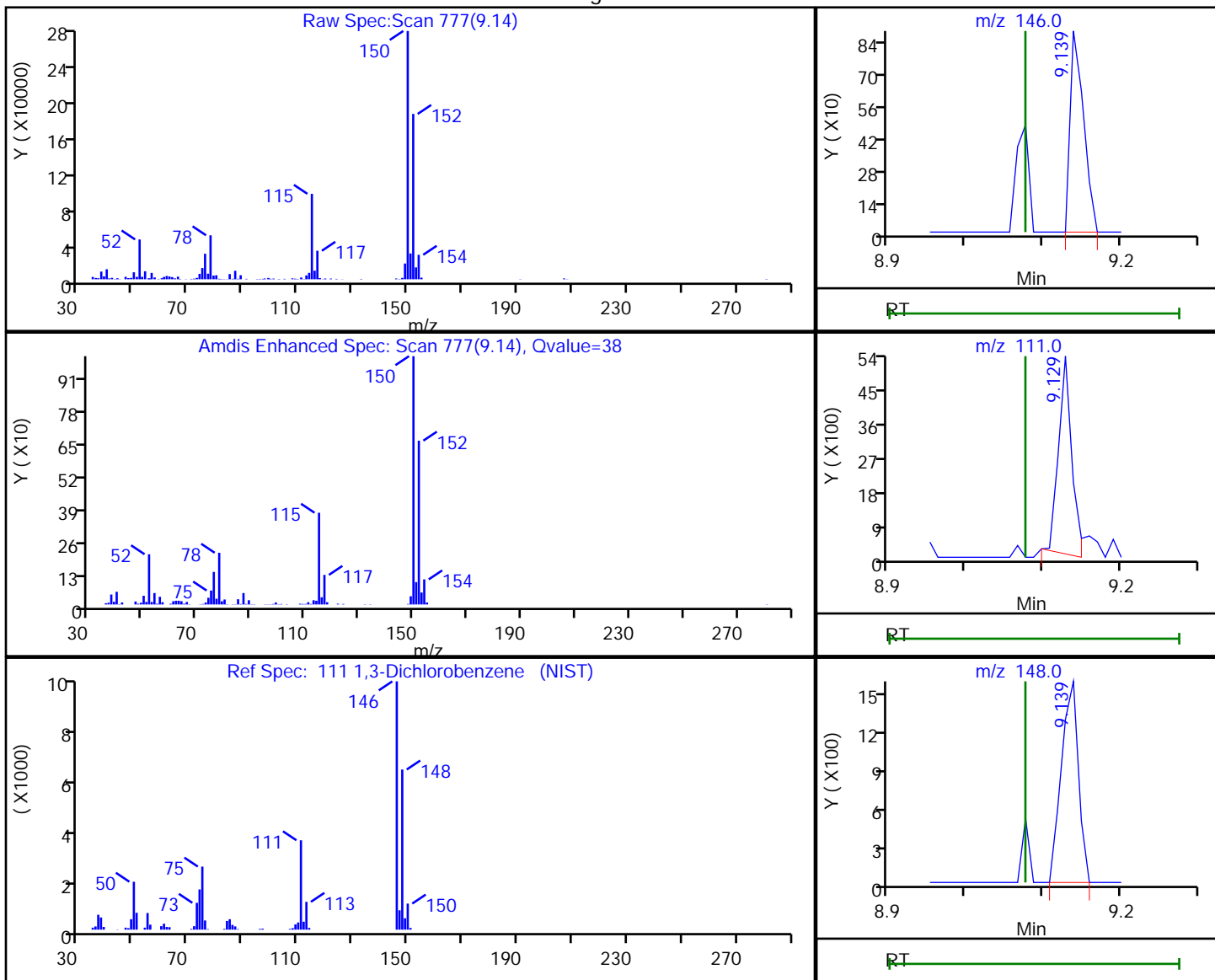
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.14	146.00	1071	0.031200
9.13	111.00	6256	
9.14	148.00	2344	

Reviewer: carrolln, 01-Mar-2019 19:45:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

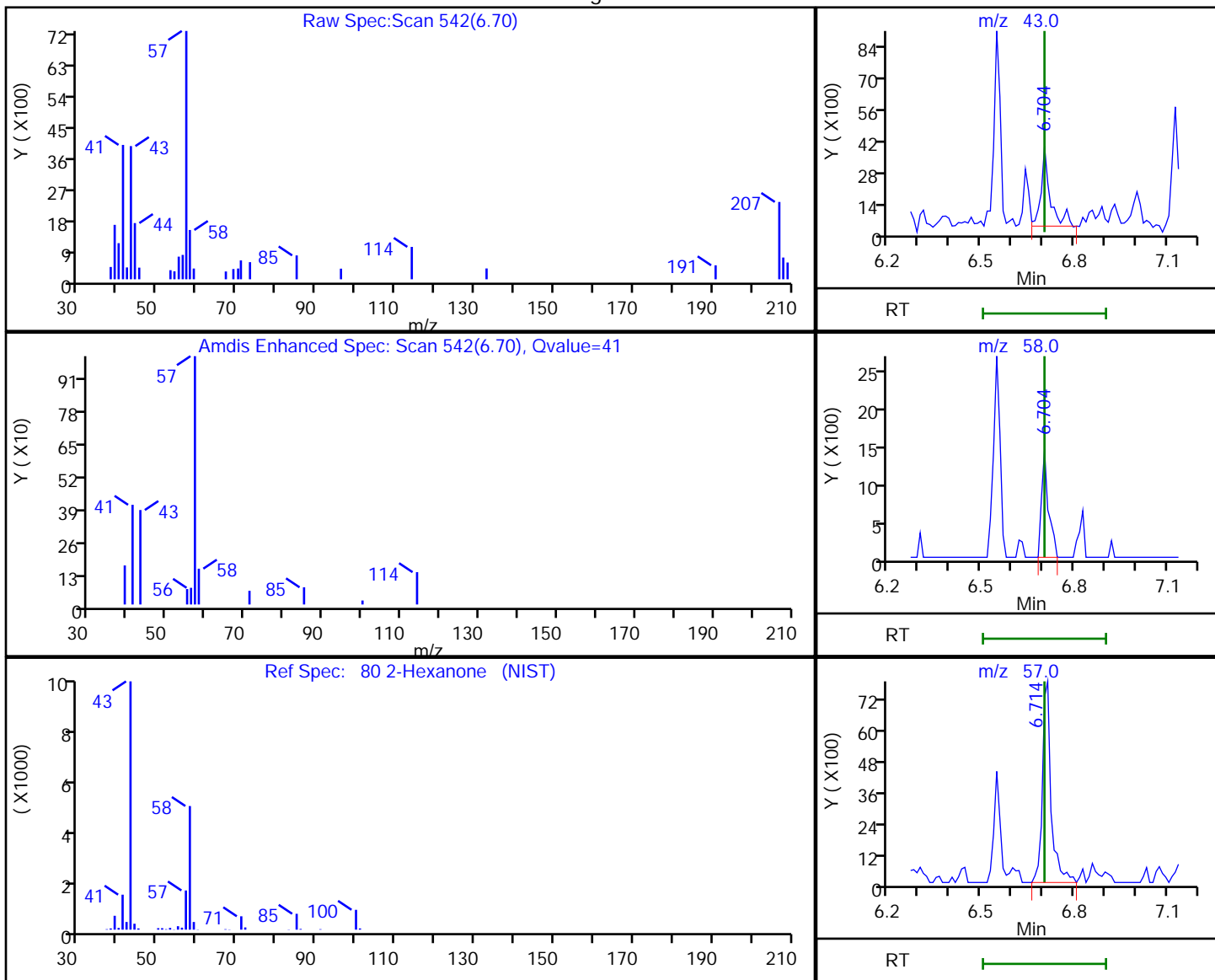
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.70	43.00	7386	0.711879
6.70	58.00	2241	
6.71	57.00	15607	

Reviewer: carrolln, 01-Mar-2019 19:44:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

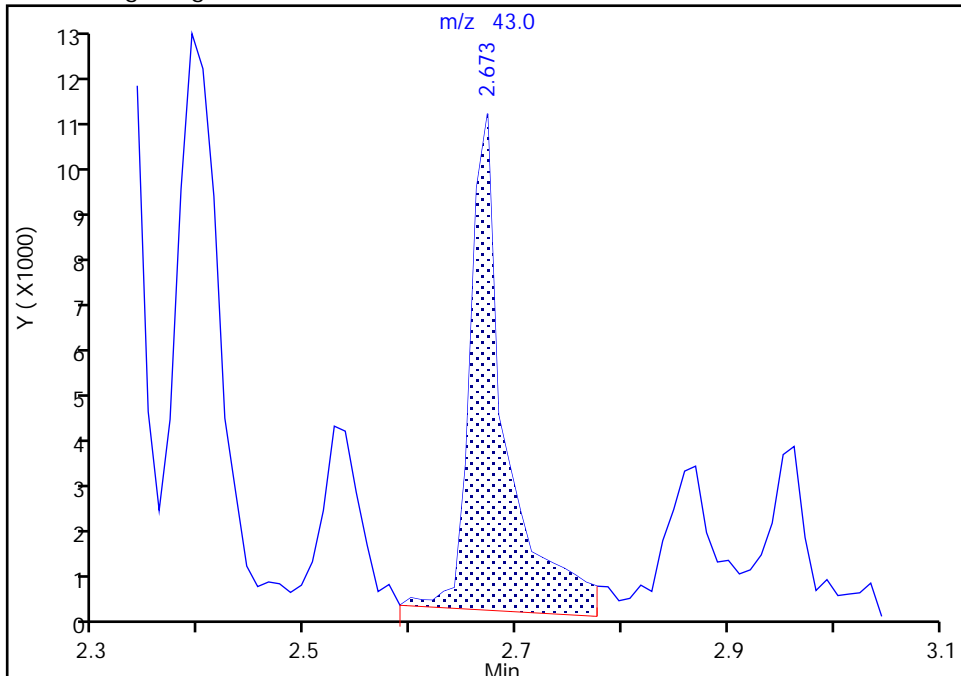
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D
Injection Date: 01-Mar-2019 19:19:30 Instrument ID: HP5973C
Lims ID: 480-149618-A-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: kn ALS Bottle#: 24 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

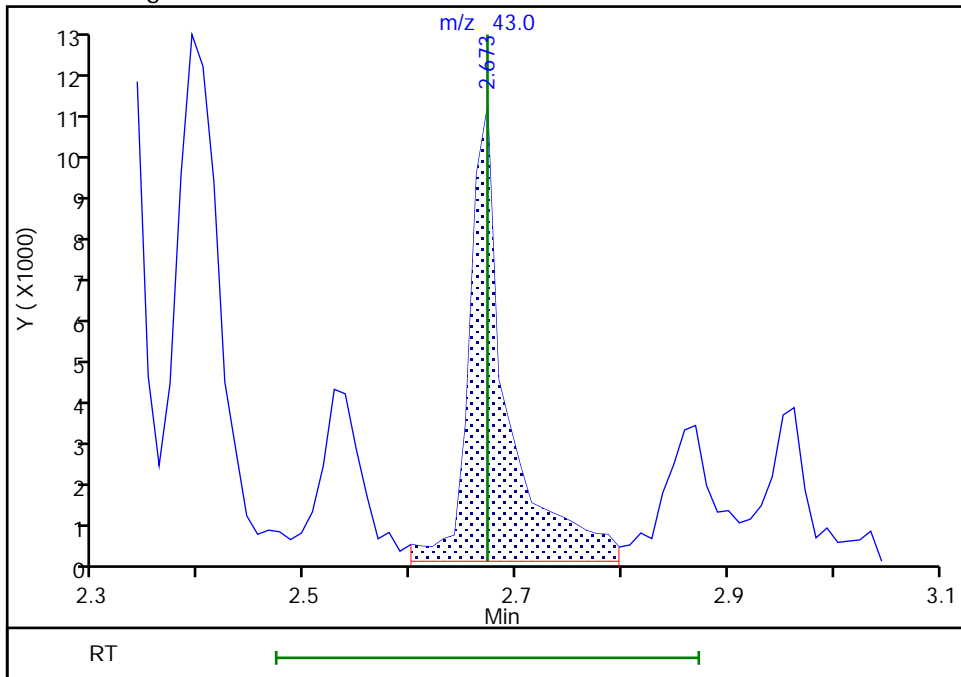
RT: 2.67
Area: 24937
Amount: 4.618607
Amount Units: ug/L

Processing Integration Results



RT: 2.67
Area: 26781
Amount: 4.960136
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 01-Mar-2019 19:43:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

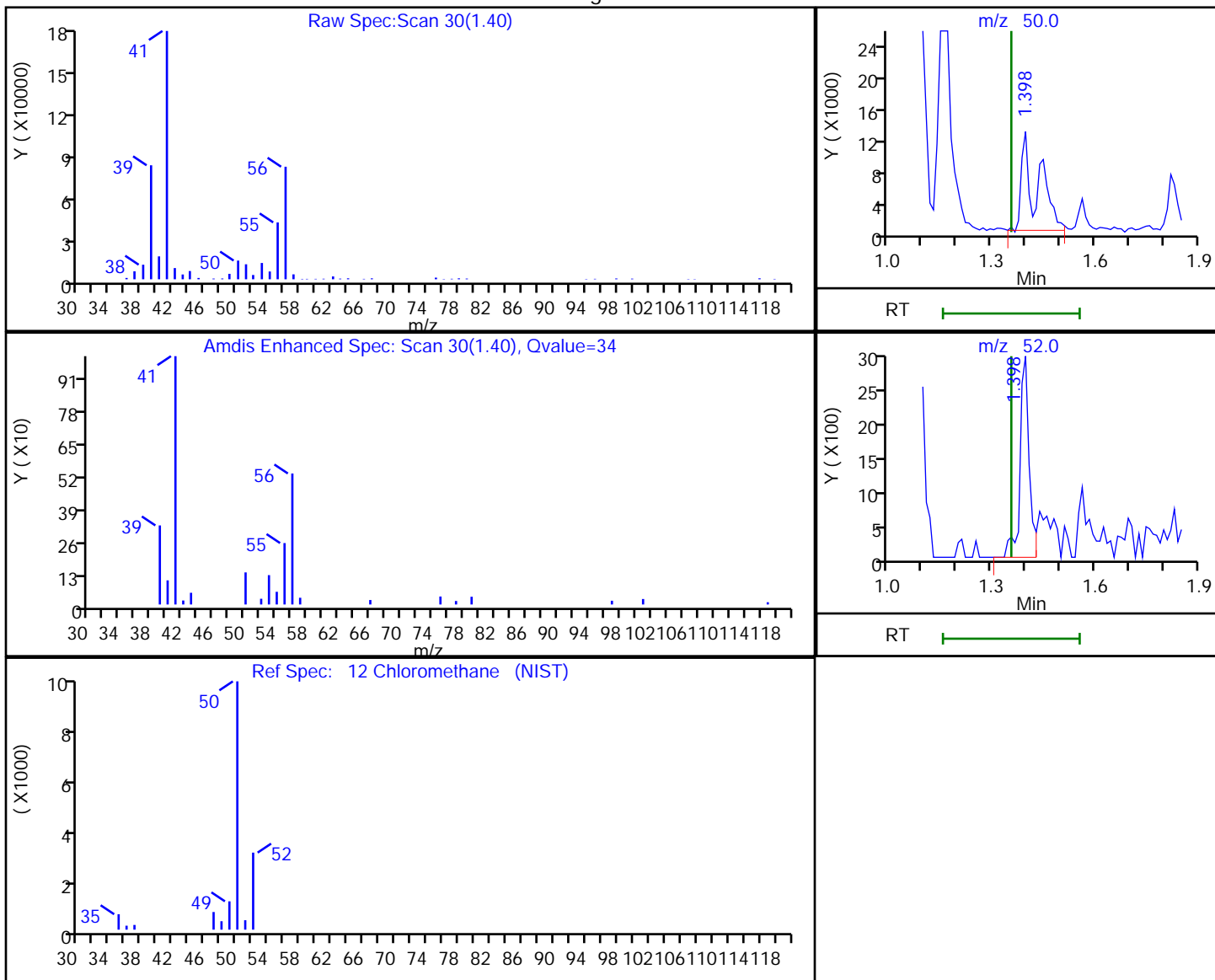
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.40	50.00	40170	2.289549
1.40	52.00	5502	

Reviewer: carrolln, 01-Mar-2019 19:43:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

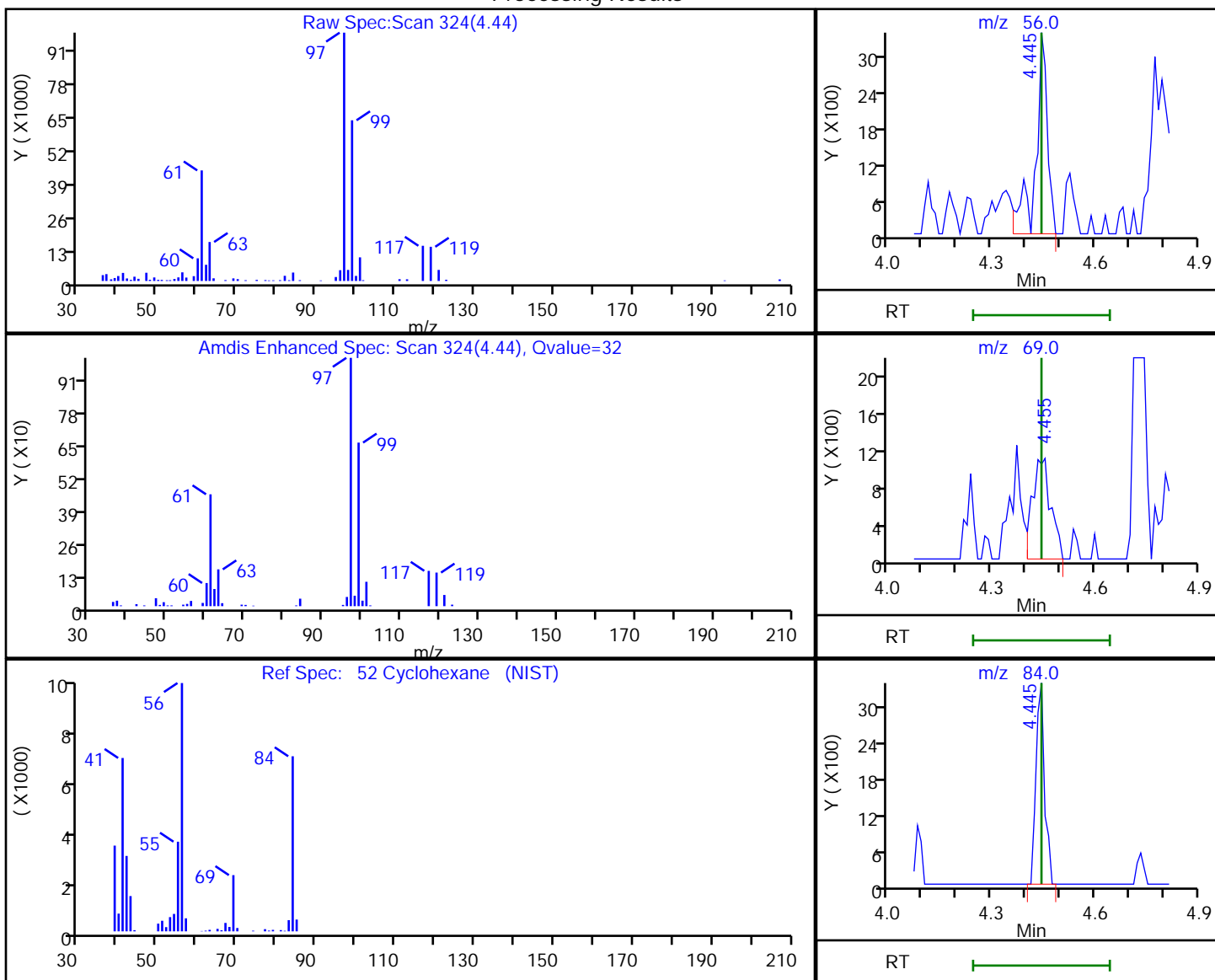
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.44	56.00	8218	0.424074
4.45	69.00	4029	
4.44	84.00	5731	

Reviewer: carrolln, 01-Mar-2019 19:44:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

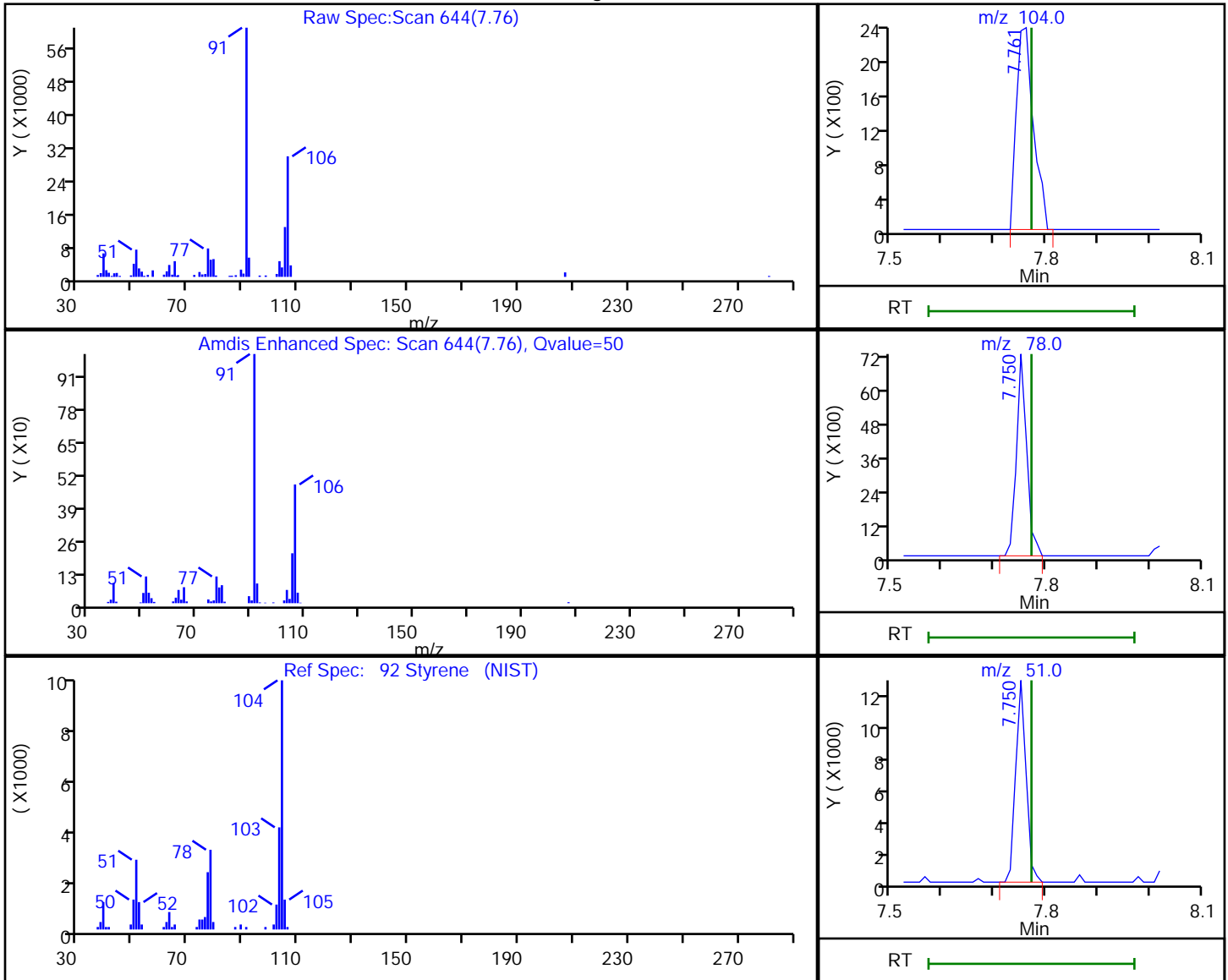
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.76	104.00	5284	0.142103
7.75	78.00	10066	
7.75	51.00	17657	

Reviewer: carrolln, 01-Mar-2019 19:44:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

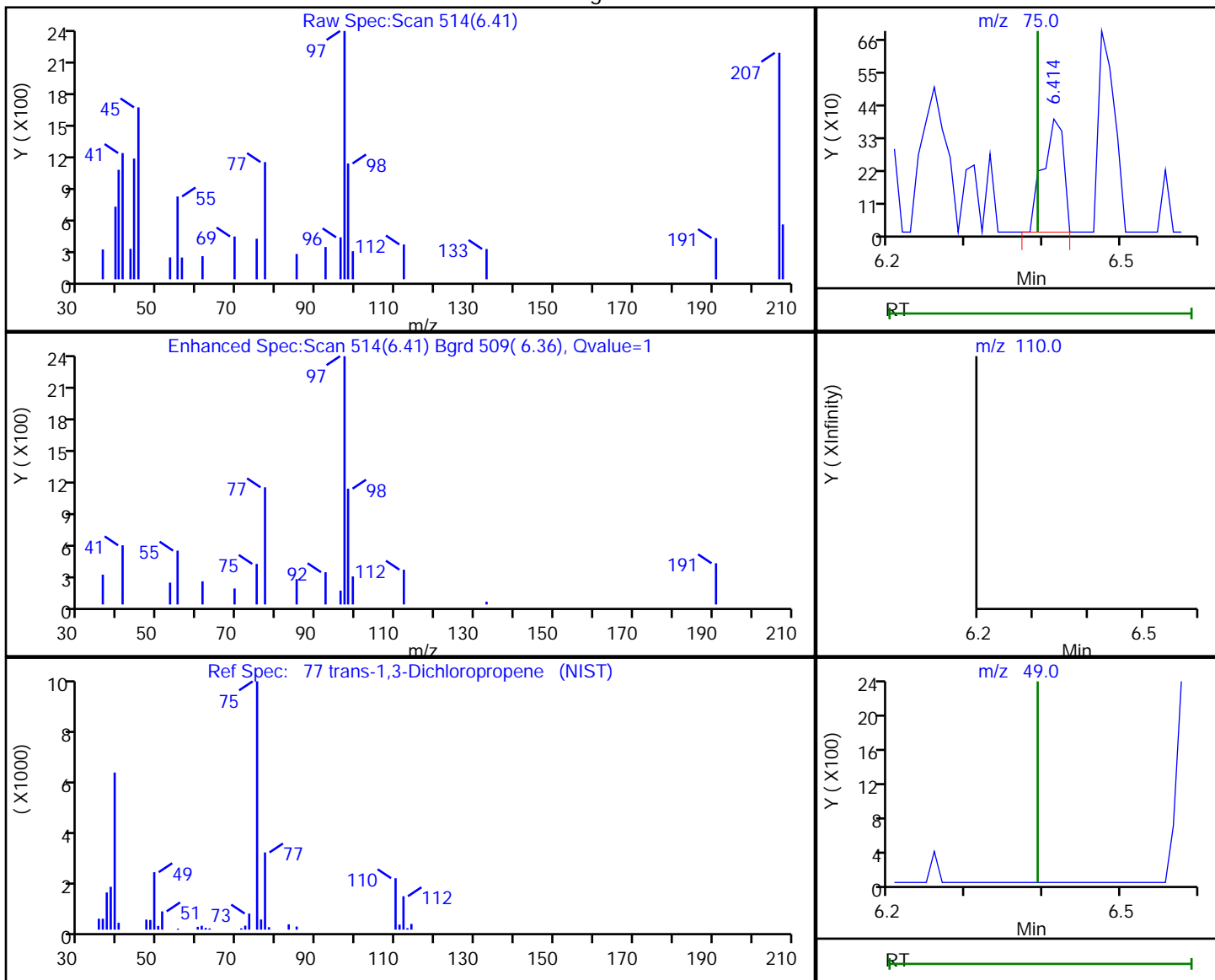
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
6.41	75.00	719	0.047212
6.39	110.00	0	
6.39	49.00	0	

Reviewer: carrolln, 01-Mar-2019 19:44:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

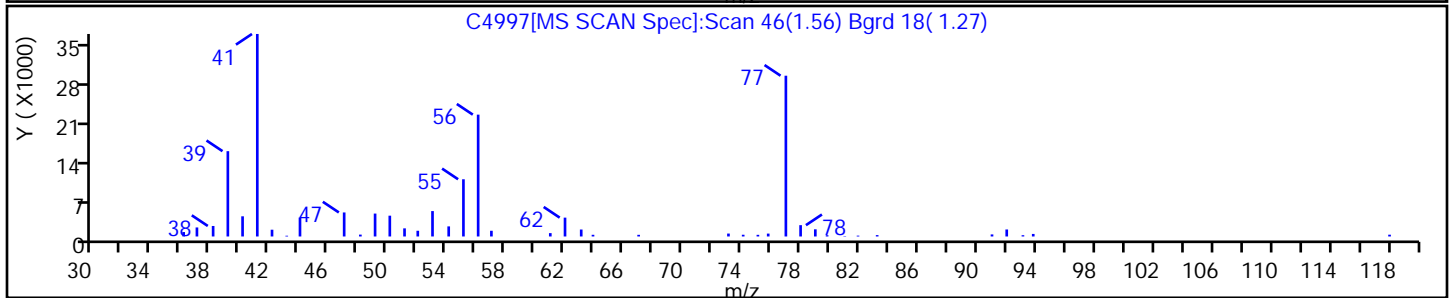
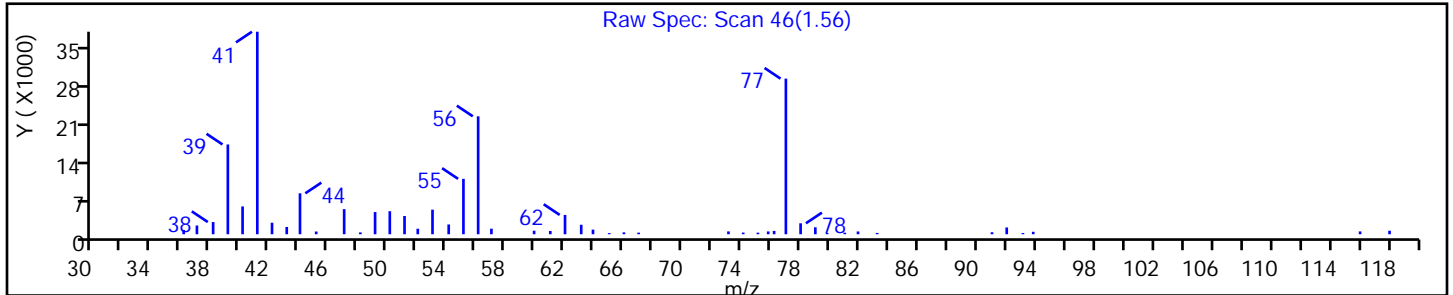
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

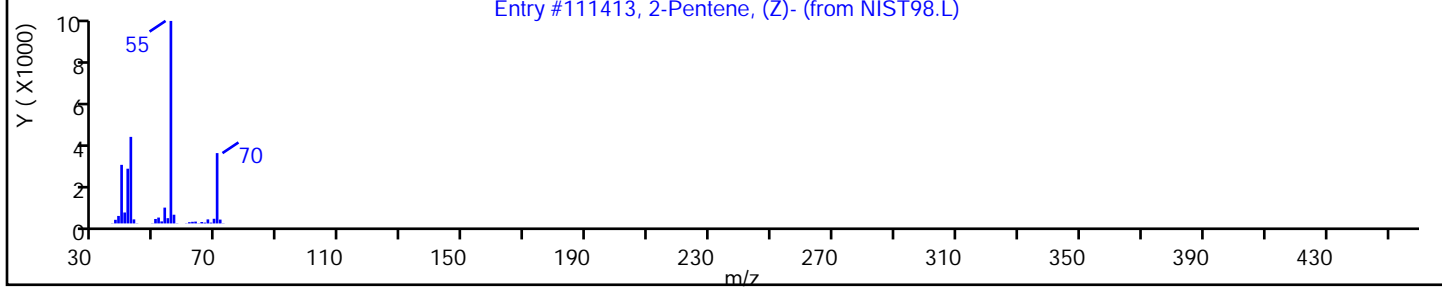
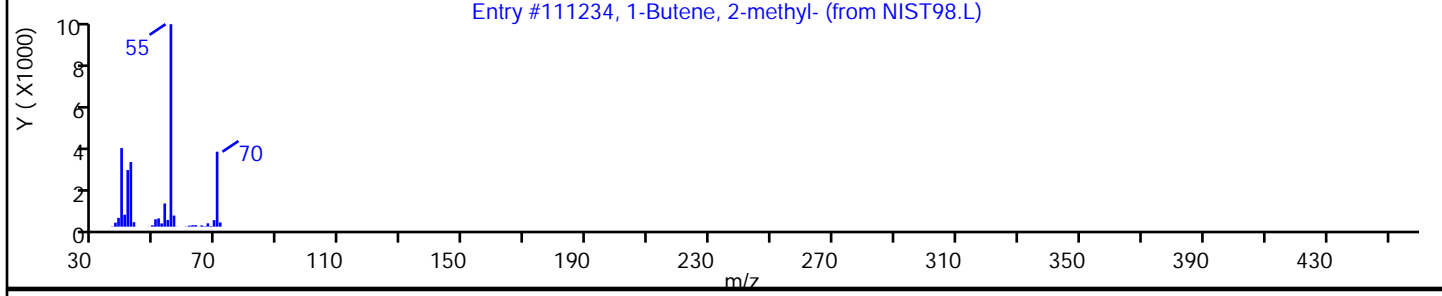
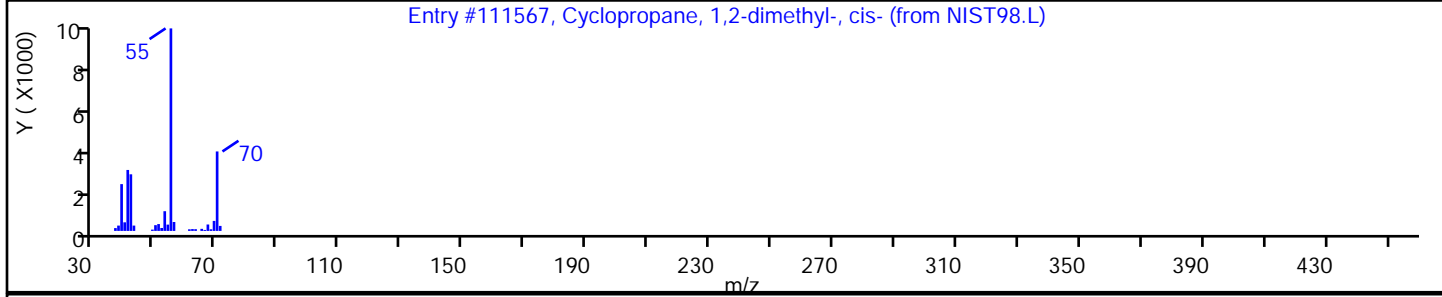
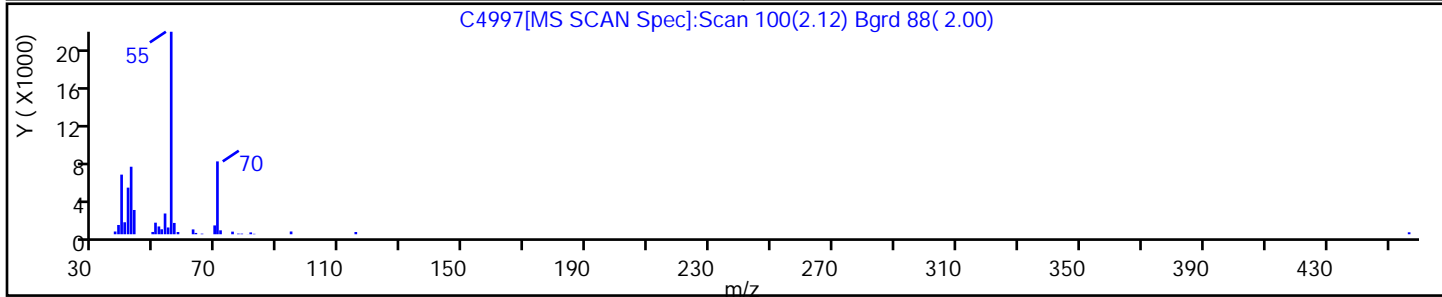
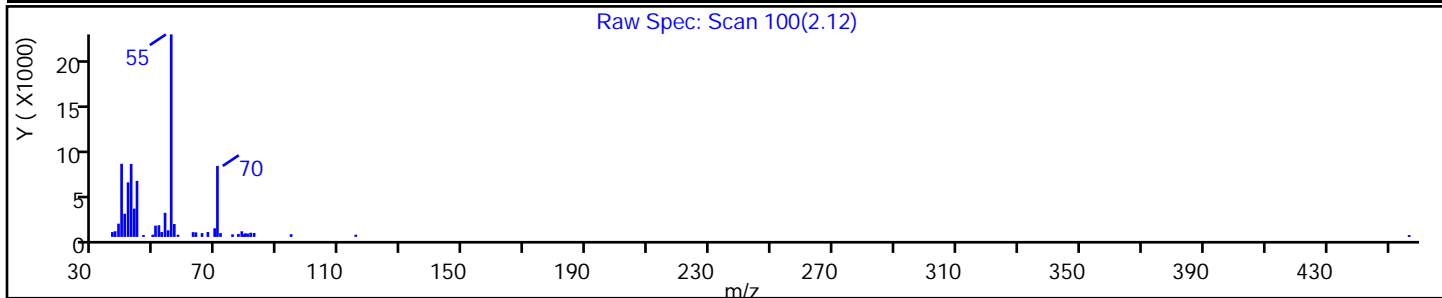
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclopropane, 1,2-dimethyl-, cis-	930-18-7	NIST98.L	111567	C5H10	70	90
1-Butene, 2-methyl-	563-46-2	NIST98.L	111234	C5H10	70	87
2-Pentene, (Z)-	627-20-3	NIST98.L	111413	C5H10	70	87



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24 Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

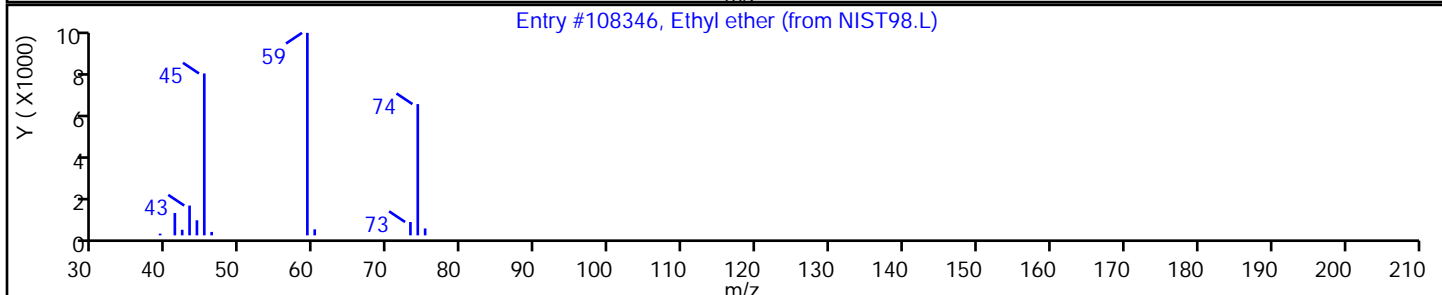
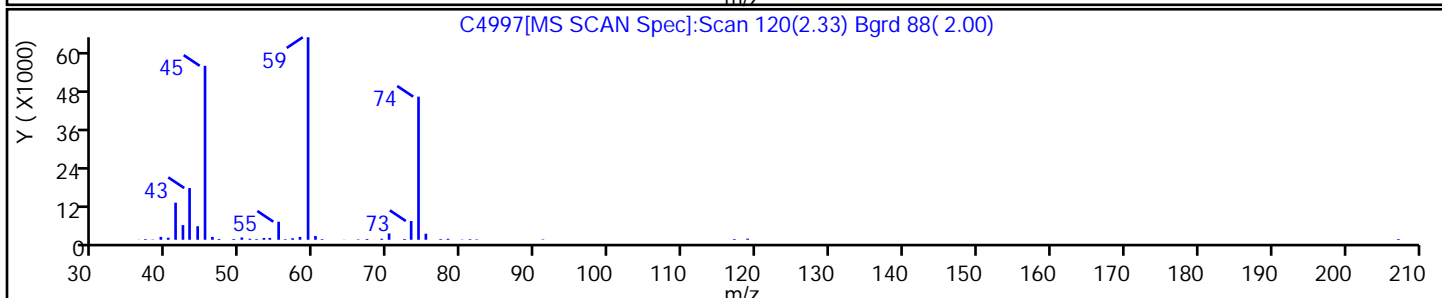
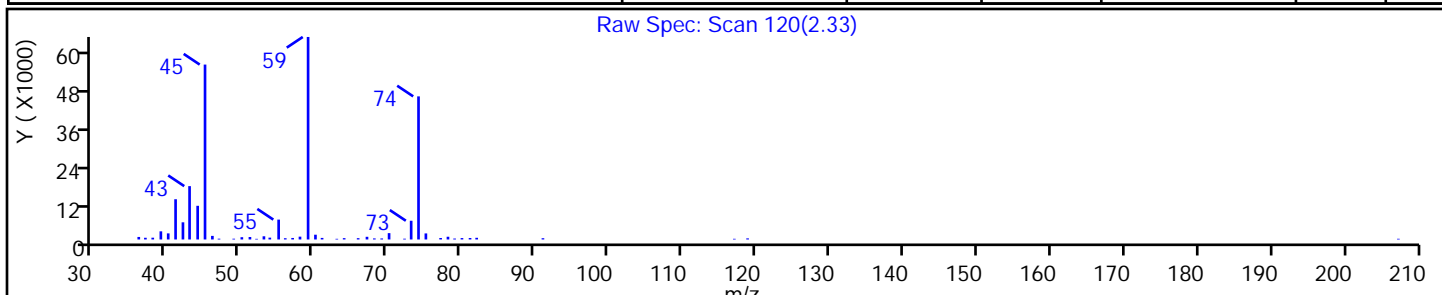
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethyl ether	60-29-7	NIST98.L	108346	C4H10O	74	90



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4997.D

Injection Date: 01-Mar-2019 19:19:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: kn

ALS Bottle#: 24

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

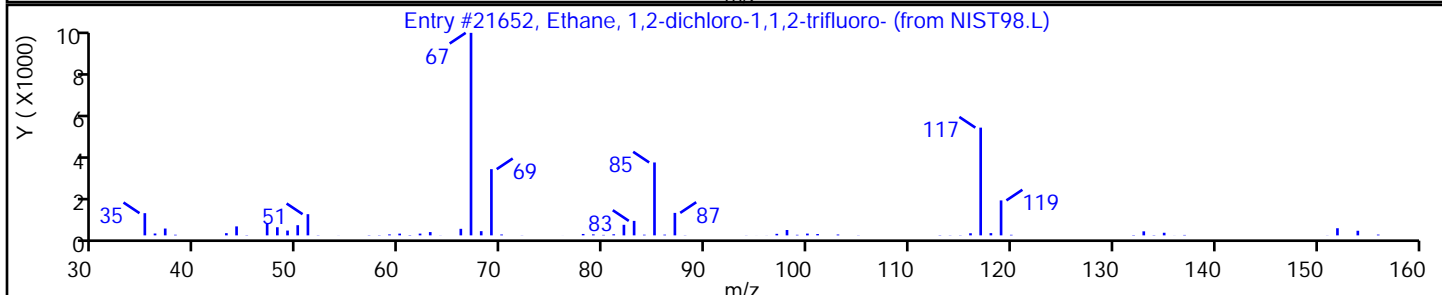
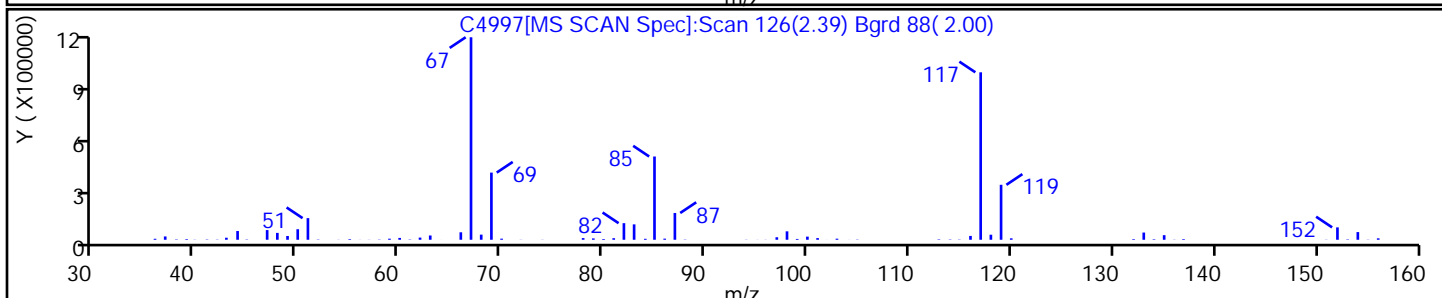
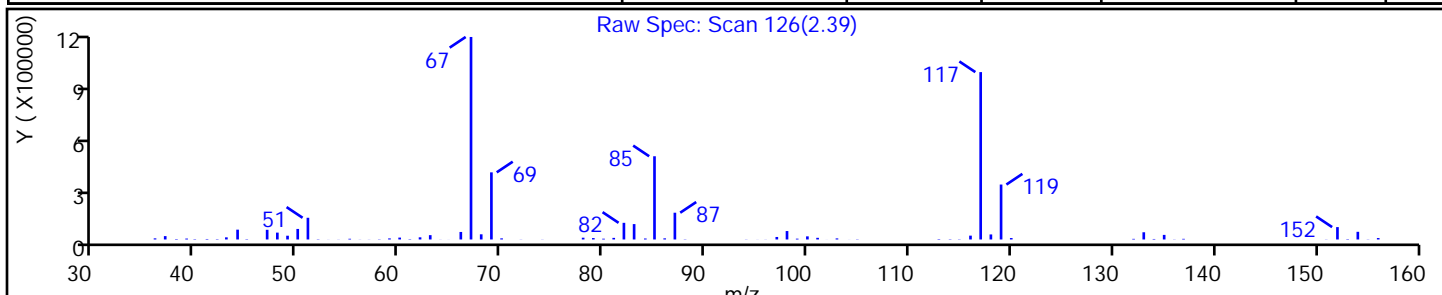
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	94



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE DL Lab Sample ID: 480-149618-9 DL
 Matrix: Water Lab File ID: C5020.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 06:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.9		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	57		5.0	1.6
75-34-3	1,1-Dichloroethane	220		5.0	1.9
75-35-4	1,1-Dichloroethene	2.0	J	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	8.8	J *	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	20		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND	*	5.0	1.6
75-00-3	Chloroethane	72		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	190		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE DL Lab Sample ID: 480-149618-9 DL
 Matrix: Water Lab File ID: C5020.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 06:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	1.4	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	4.6	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	3.3	J	5.0	1.8
108-88-3	Toluene	84		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	7.8		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	9.6		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	170		5.0	4.5
1330-20-7	Xylenes, Total	7.0	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE DL Lab Sample ID: 480-149618-9 DL
 Matrix: Water Lab File ID: C5020.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 06:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 140

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.39	140	T J N	94%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
 Lims ID: 480-149618-B-9
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 02-Mar-2019 06:08:30 ALS Bottle#: 21 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-B-9
 Misc. Info.: 480-0079070-024
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 15:31:05 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 15:31:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	203542	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	86	439725	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	95	482661	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	306499	26.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	95	184904	25.9	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	94	1114197	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	94	375203	27.1	
10 Dichlorodifluoromethane	85		1.190				ND	MUa
12 Chloromethane	50		1.356				ND	U
13 Vinyl chloride	62	1.450	1.439	0.000	98	487944	34.6	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64	1.823	1.823	-0.010	99	129155	14.5	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	92	109521	11.4	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	34	4154	0.3981	
23 Acetone	43	2.672	2.672	0.010	97	7744	1.45	M
26 Carbon disulfide	76	2.745	2.745	0.010	35	2343	0.0677	7a
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	94	12351	0.9182	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	58	10577	0.2892	
34 trans-1,2-Dichloroethene	96	3.232	3.232	-0.010	96	19891	1.56	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	1012542	44.0	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	586584	38.5	
43 2-Butanone (MEK)	43	4.123	4.134	-0.011	51	12747	1.77	
50 Chloroform	83	4.341	4.351	-0.010	36	2775	0.1197	
51 1,1,1-Trichloroethane	97	4.444	4.445	0.000	97	35624	1.97	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78	4.735	4.735	0.000	67	188262	3.95	
58 1,2-Dichloroethane	62	4.786	4.786	0.000	1	2248	0.1122	a
62 Trichloroethene	95	5.222	5.222	0.000	90	24358	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.305	5.305	-0.010	16	1544	0.0914	a
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	61	2694	0.1628	7a
74 Toluene	92	6.175	6.186	0.000	99	522755	16.7	
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166	6.590	6.590	0.000	97	8802	0.6519	
80 2-Hexanone	43		6.704				ND	
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112		7.284				ND	
88 Ethylbenzene	91	7.336	7.336	0.000	98	25567	0.4297	
90 m-Xylene & p-Xylene	106	7.429	7.420	0.000	97	33474	1.40	
91 o-Xylene	106	7.750	7.750	0.000	96	14280	0.5640	a
92 Styrene	104		7.771				ND	MUa
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105	8.030	8.030	0.000	94	3916	0.0593	a
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	
113 1,4-Dichlorobenzene	146		9.149				ND	
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1				0		1.96	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
 Lims ID: 480-149618-B-9
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 02-Mar-2019 06:08:30 ALS Bottle#: 21 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-149618-B-9
 Misc. Info.: 480-0079070-024
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 15:31:05 Calib Date: 09-Jan-2019 22:33:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\chromna\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315
 First Level Reviewer: izquierdo Date: 02-Mar-2019 15:31:36

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.393	2495258	27.3	153	94	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.952	2289146	25.0

QC Flag Legend

Processing Flags

Reagents:

C_8260_Surr_00144 Amount Added: 1.00 Units: uL Run Reagent
 C_8260_IS_00129 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Worklist Smp#: 24

Client ID: DUPE

Purge Vol: 5.000 mL

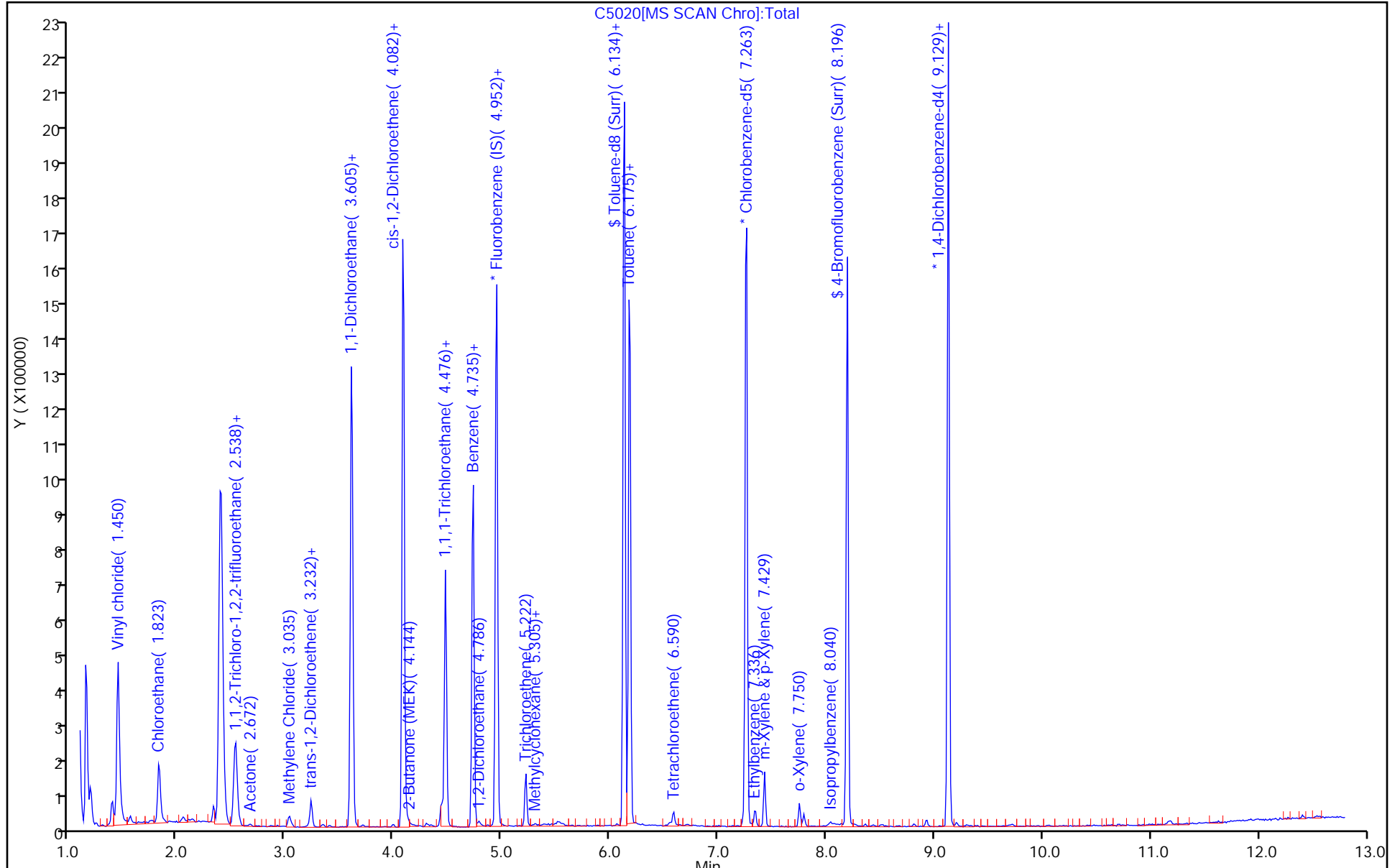
Dil. Factor: 5.0000

ALS Bottle#: 21

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

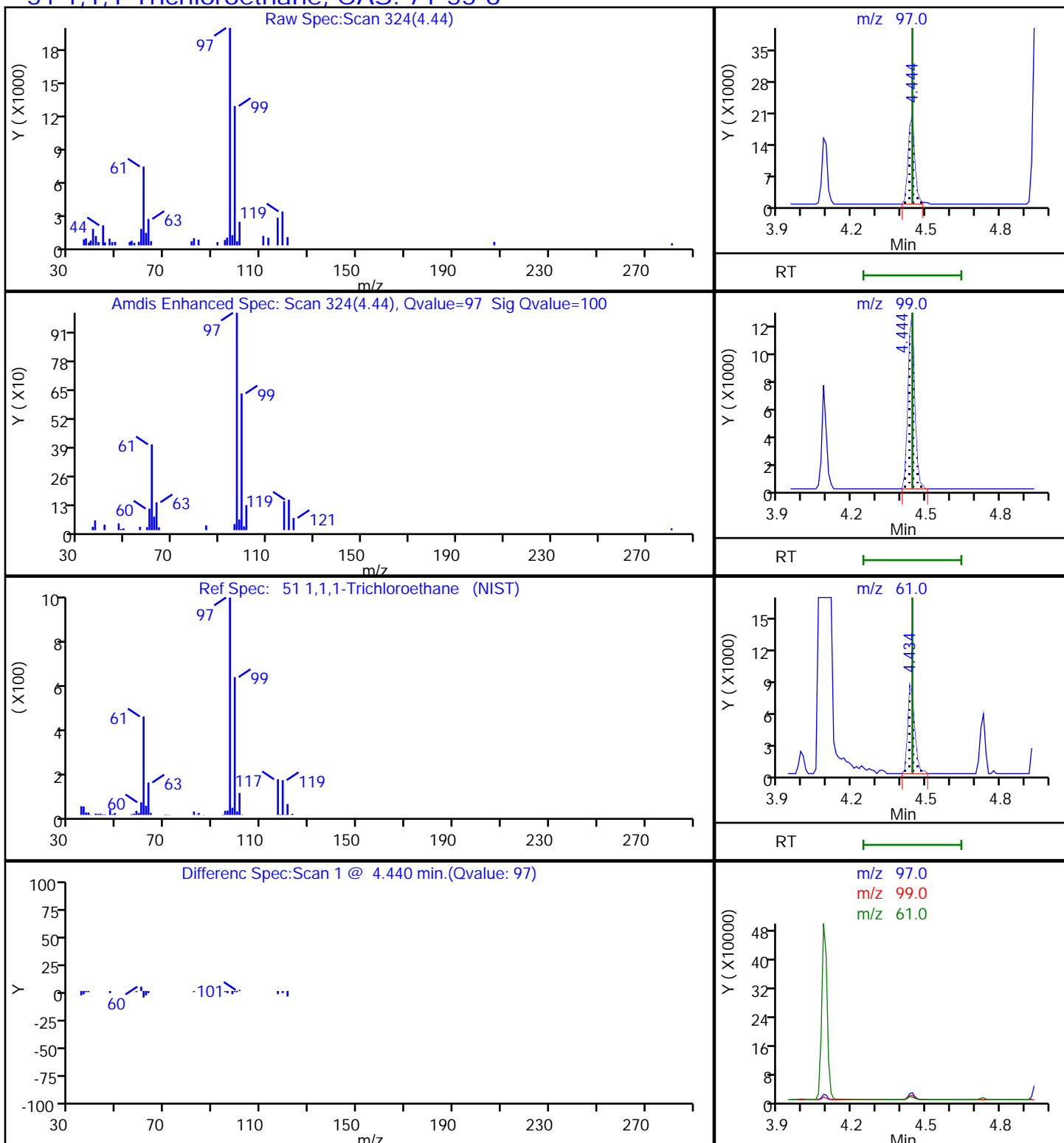
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

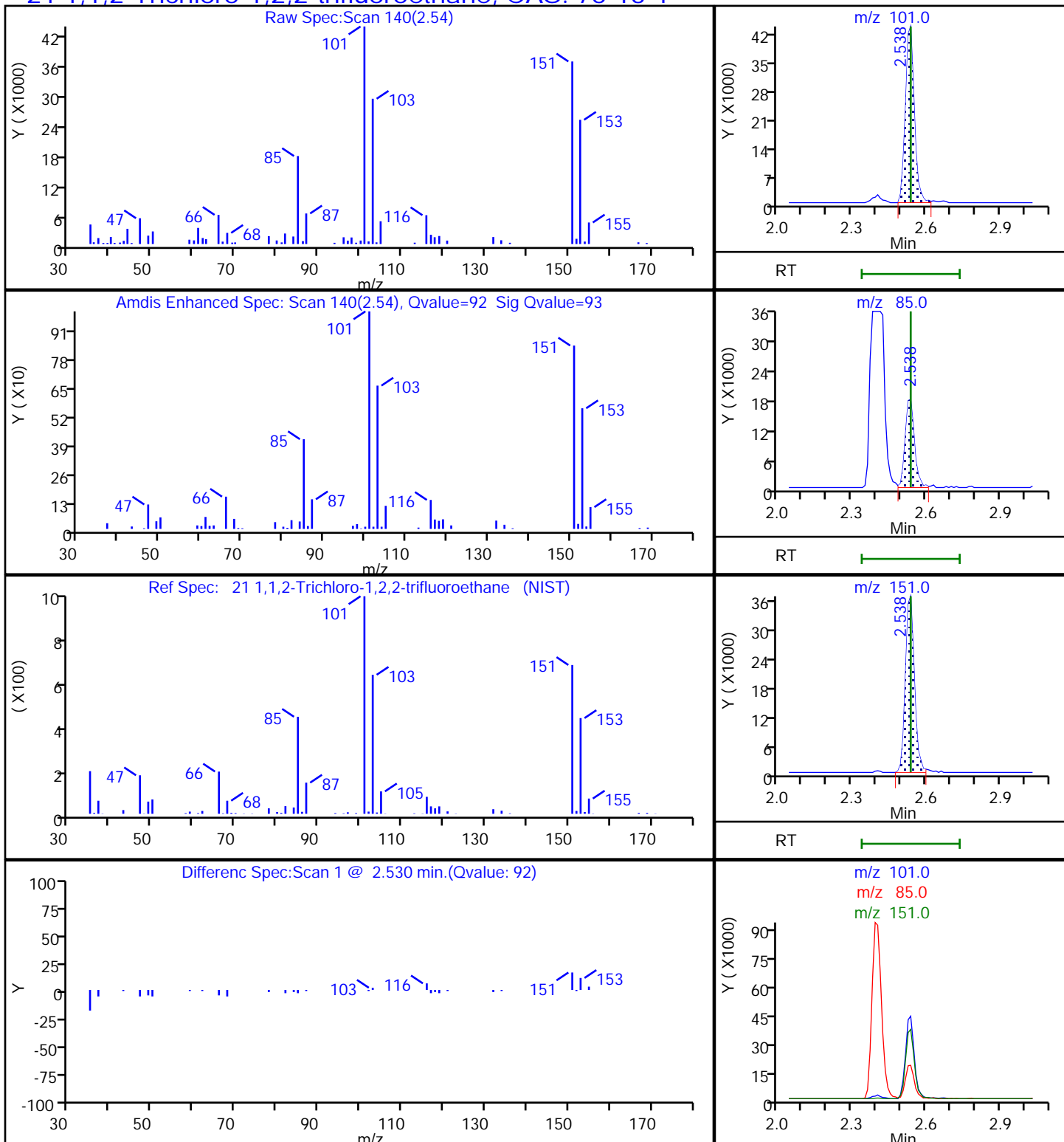
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

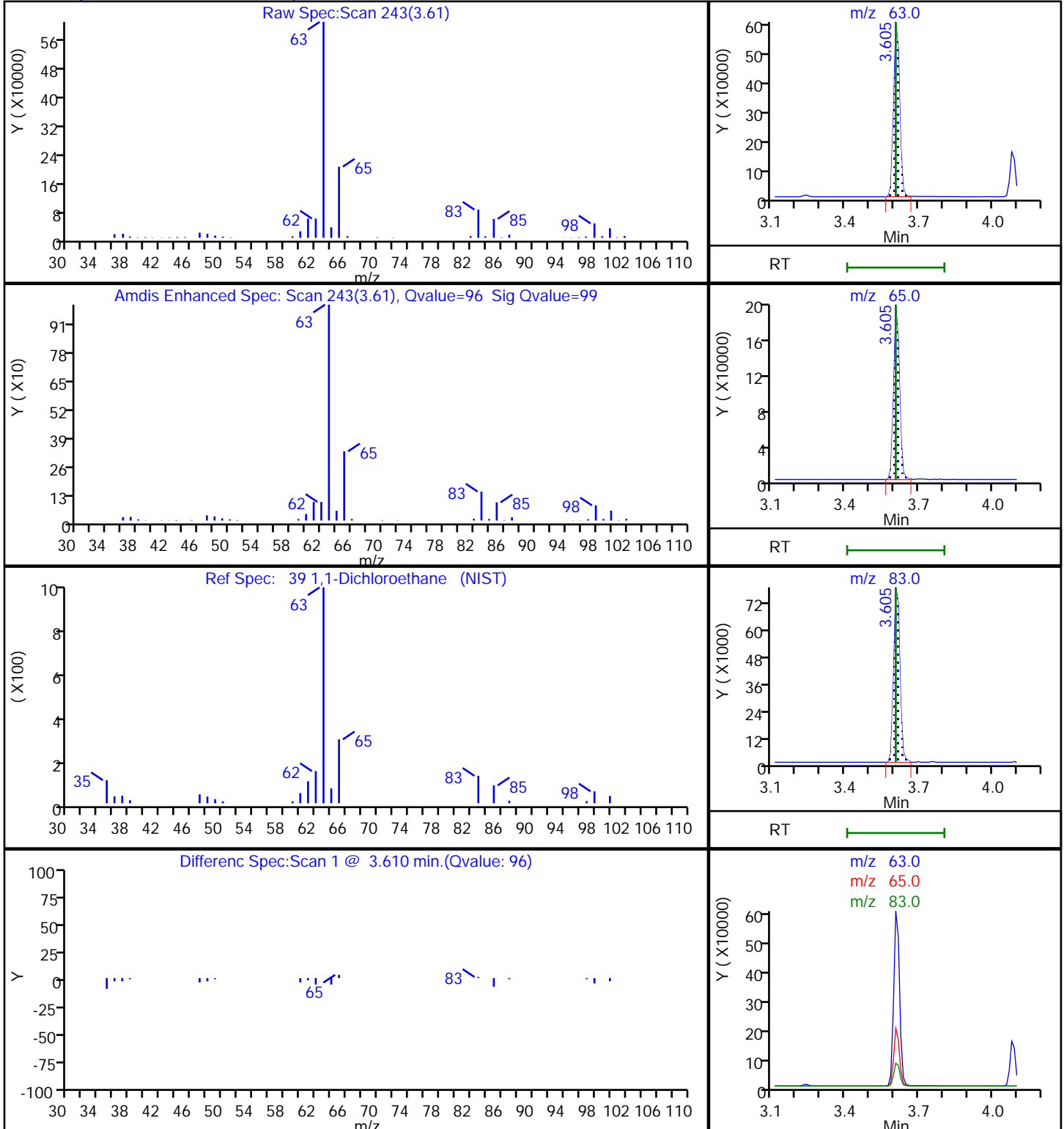
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

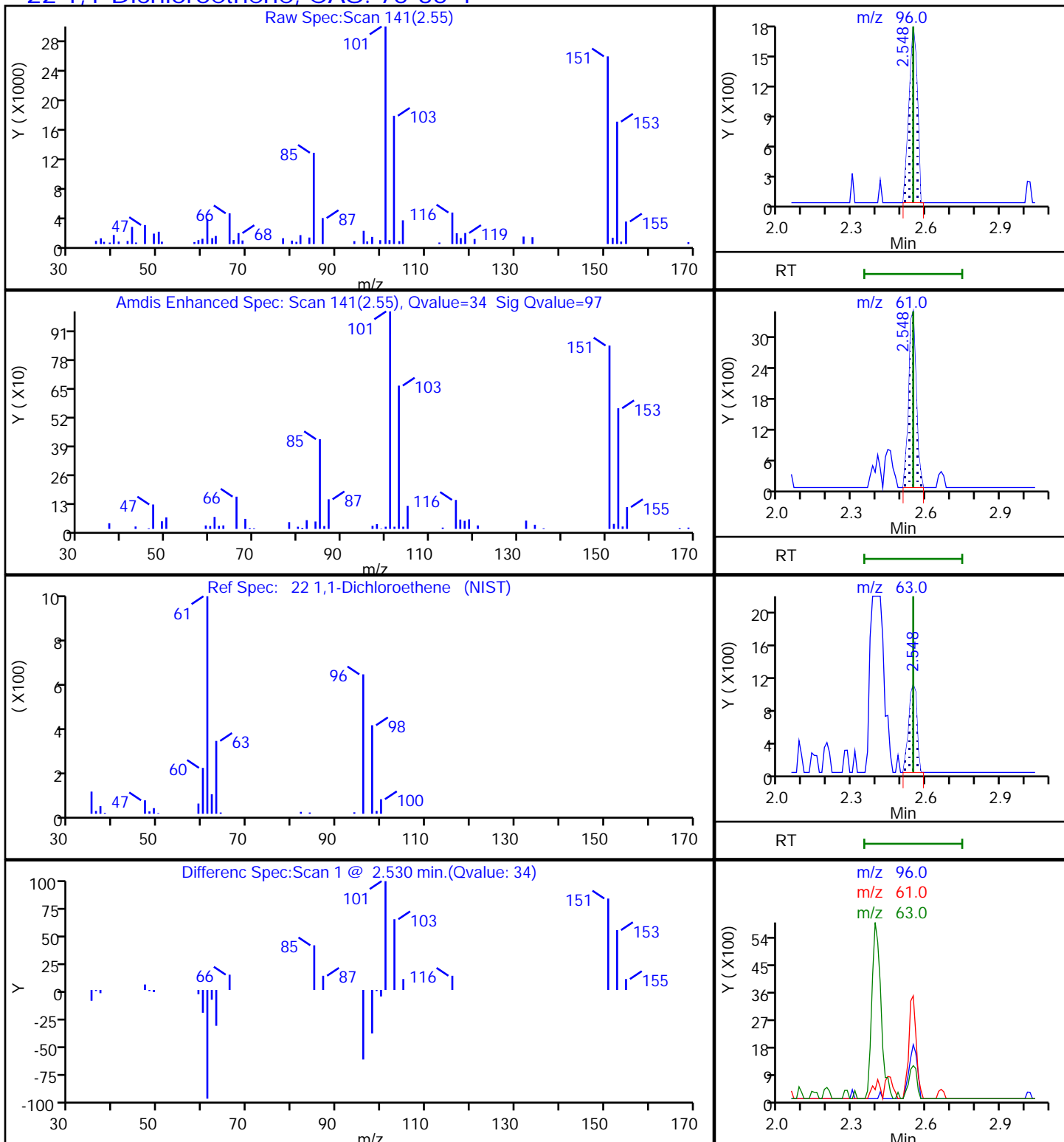
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

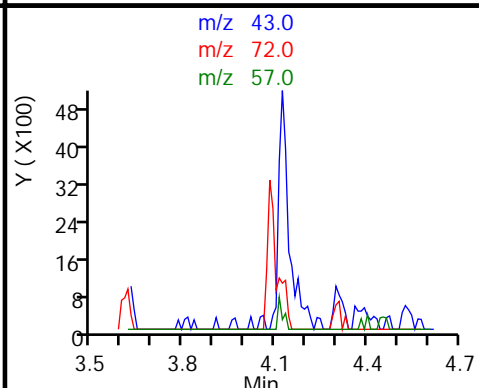
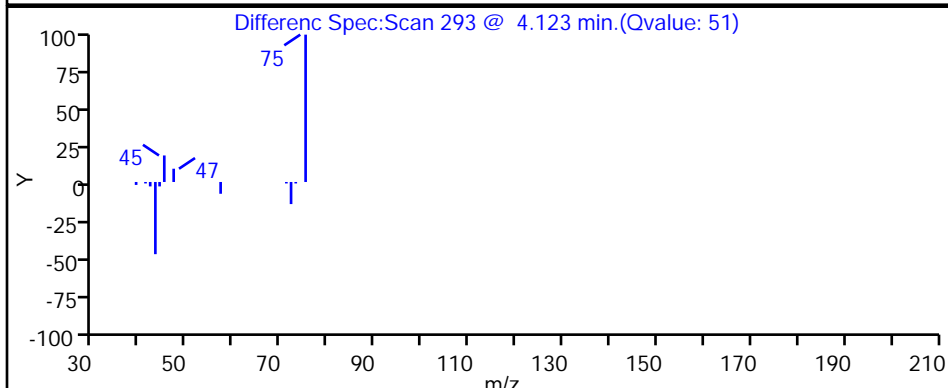
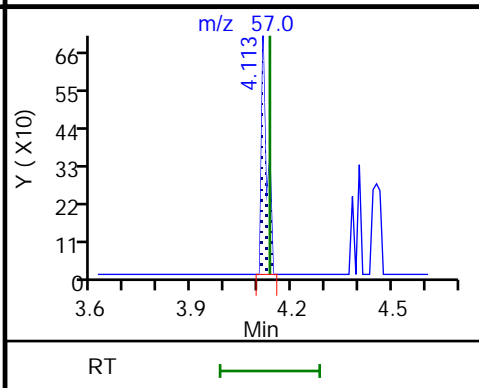
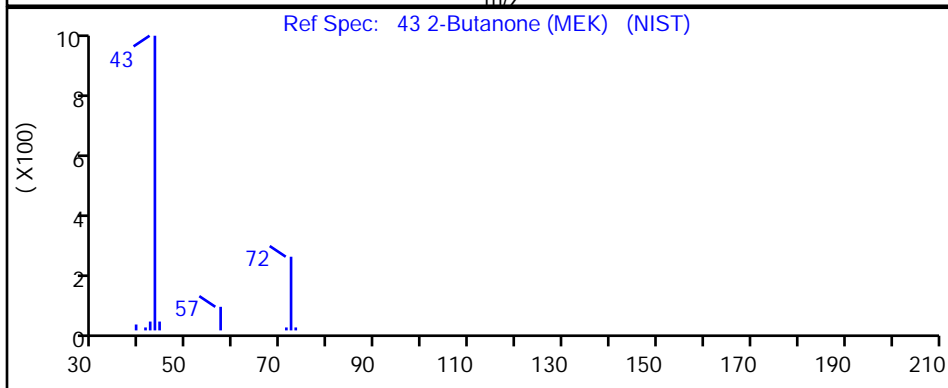
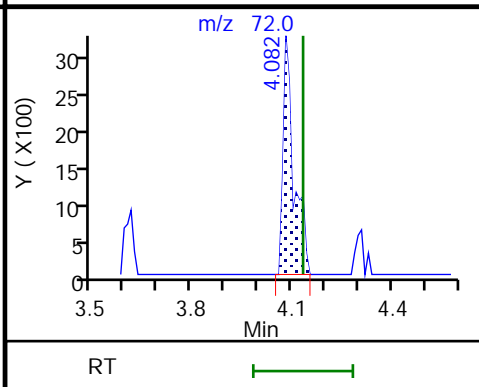
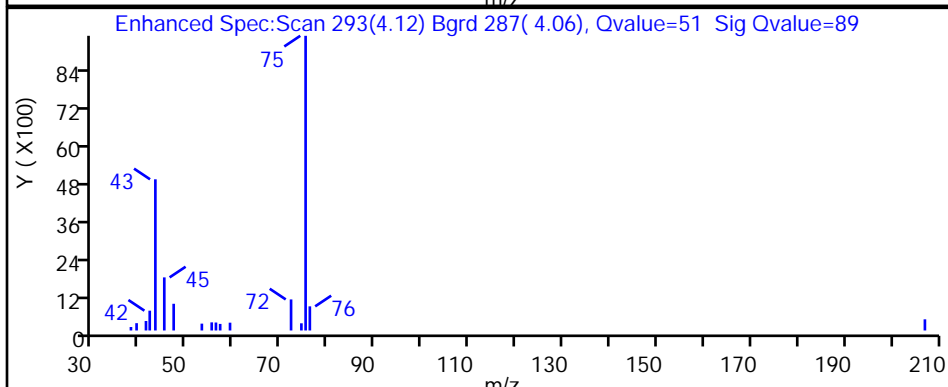
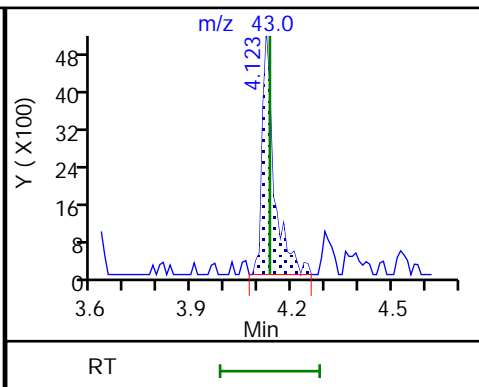
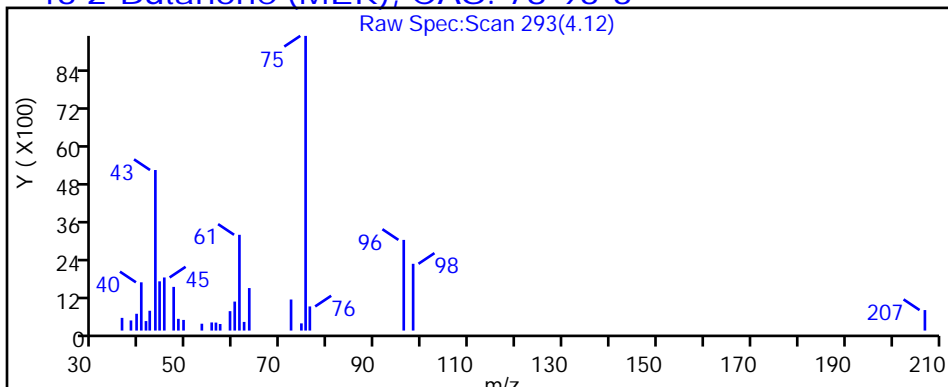
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

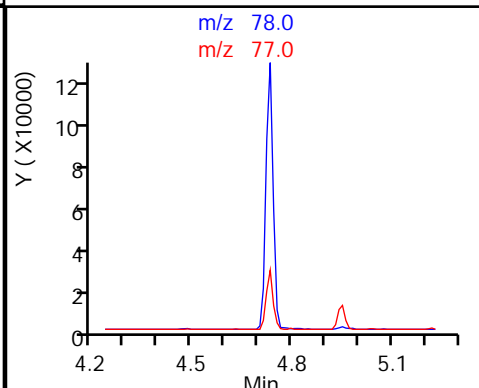
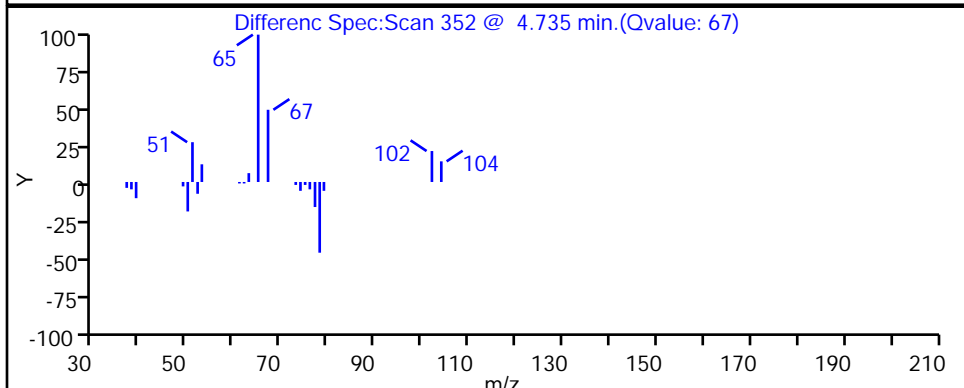
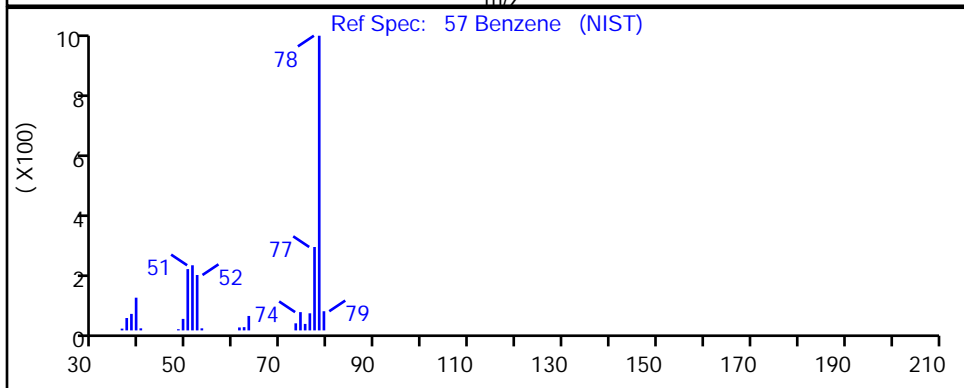
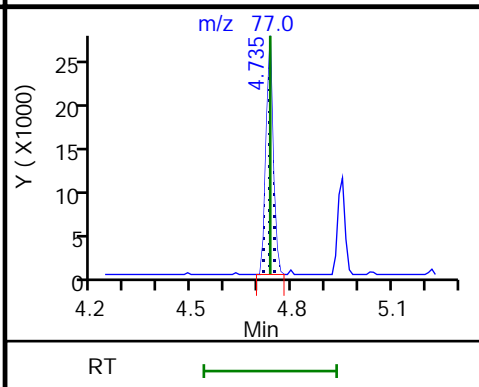
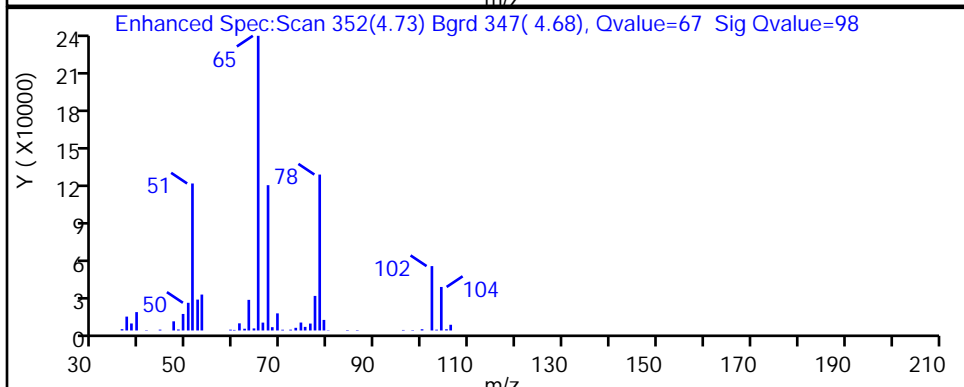
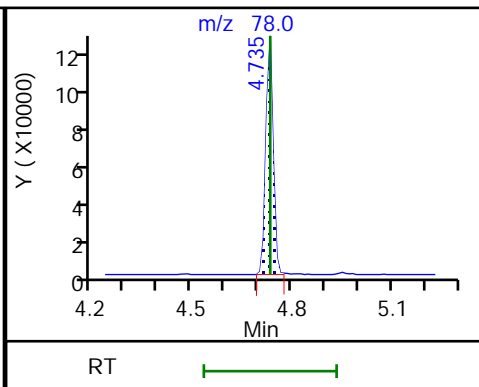
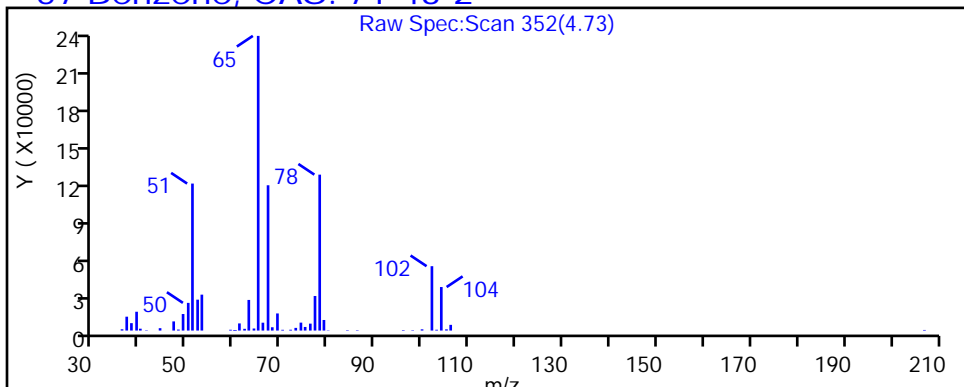
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

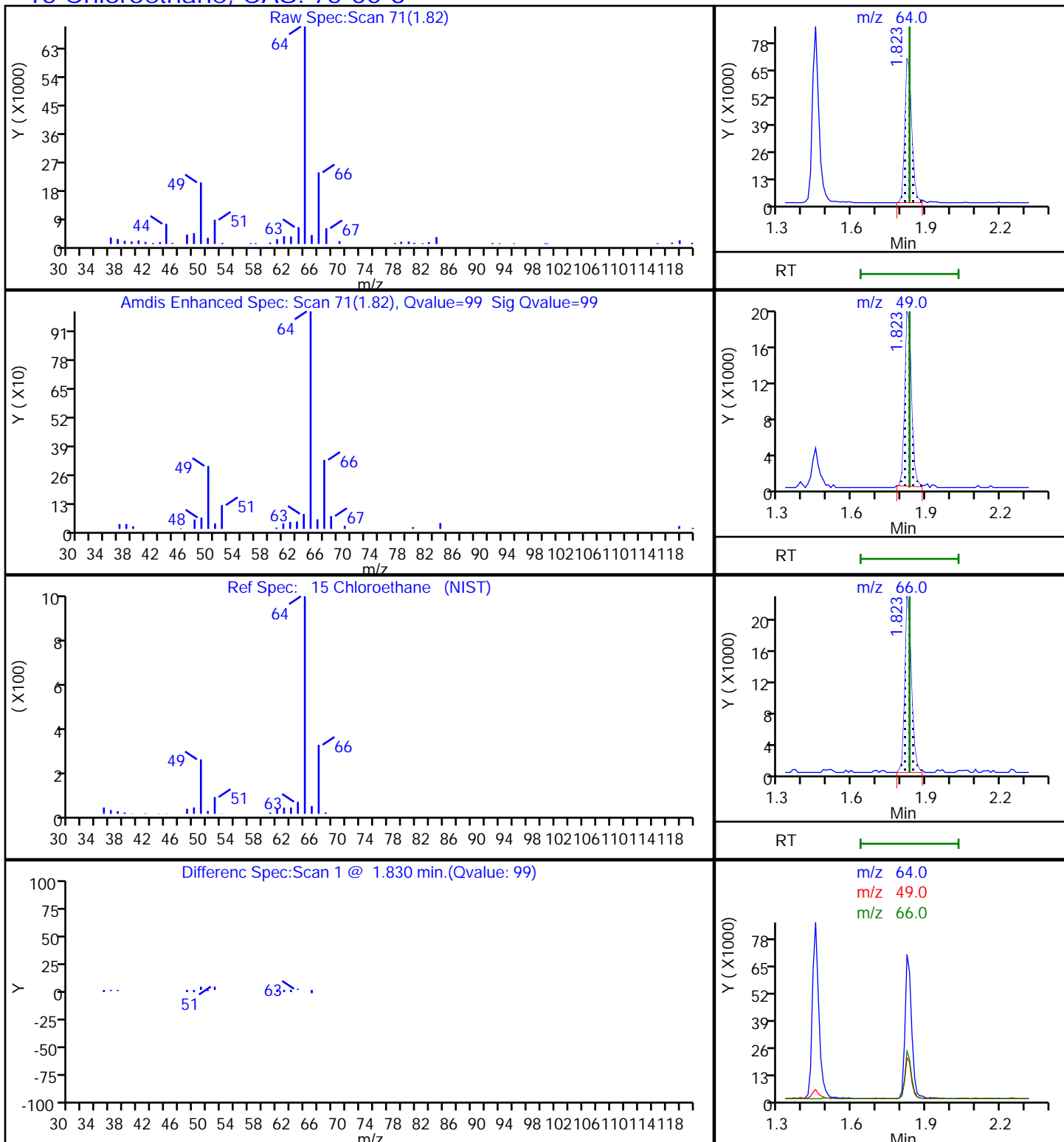
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

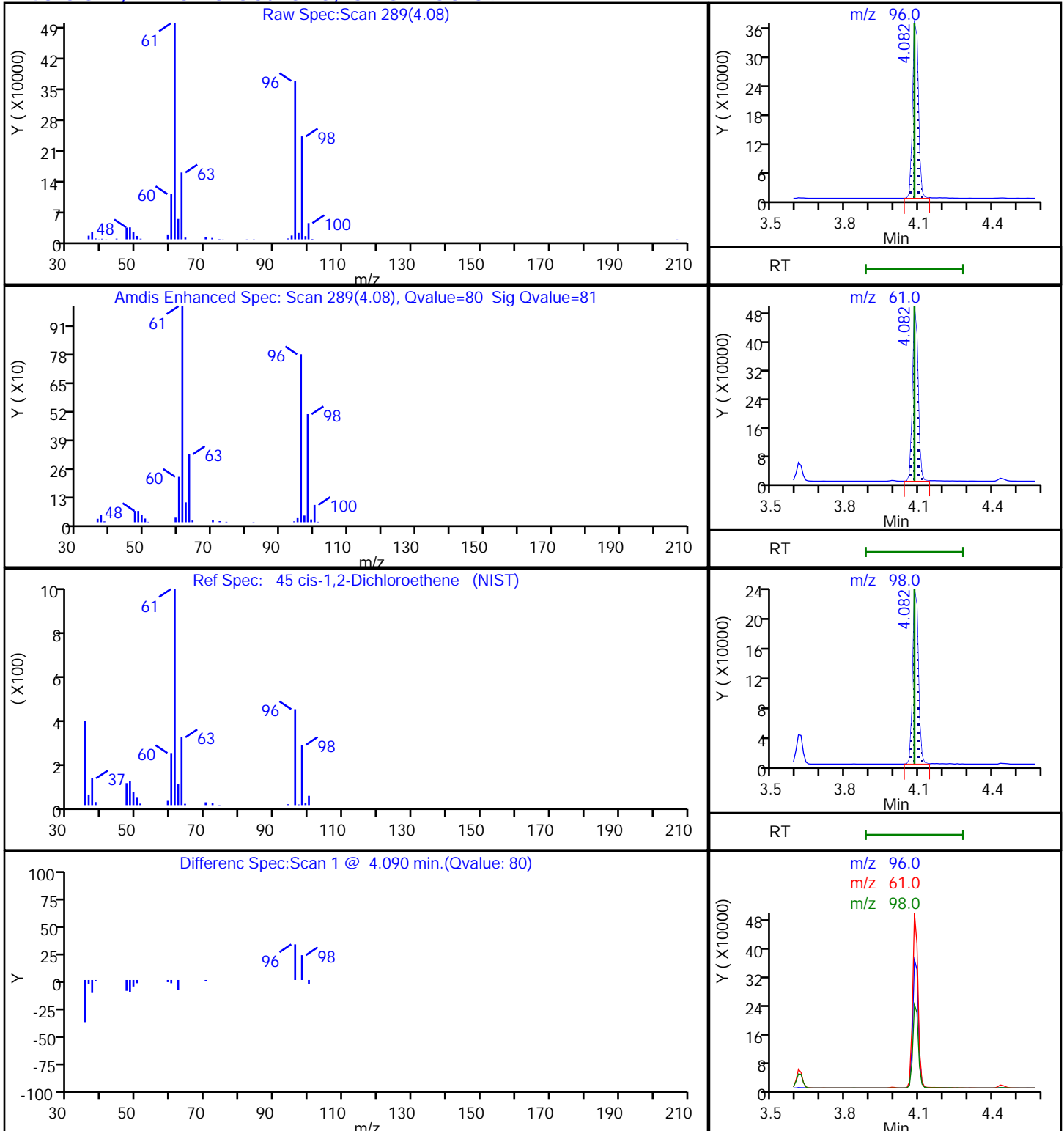
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

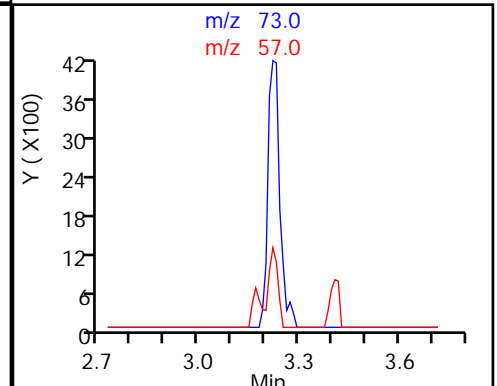
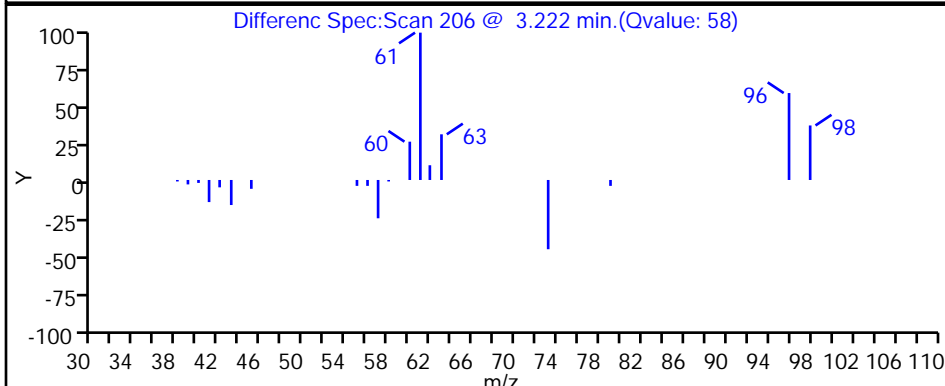
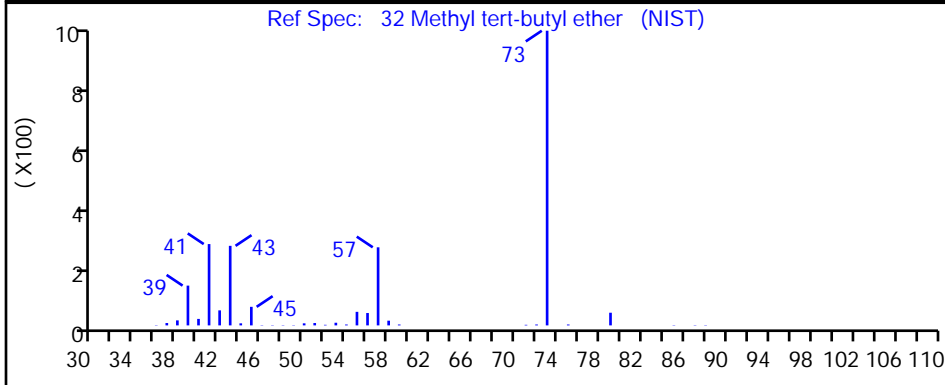
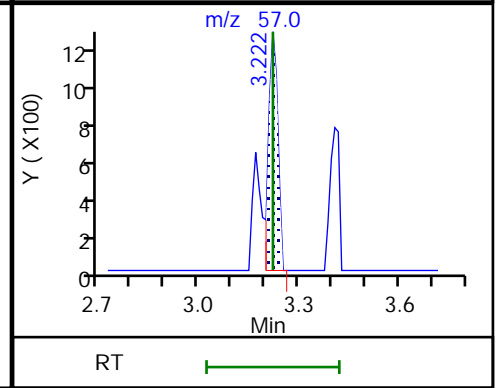
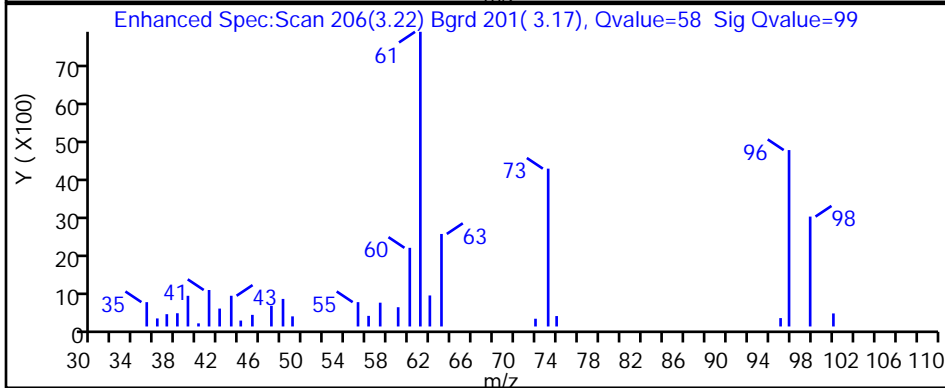
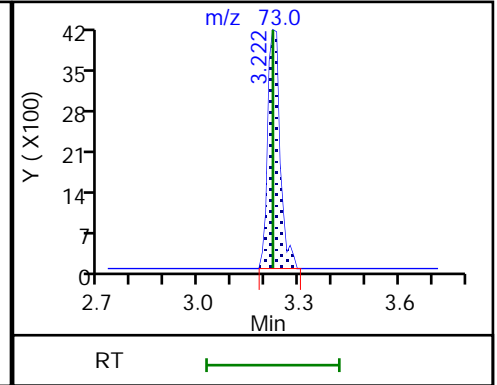
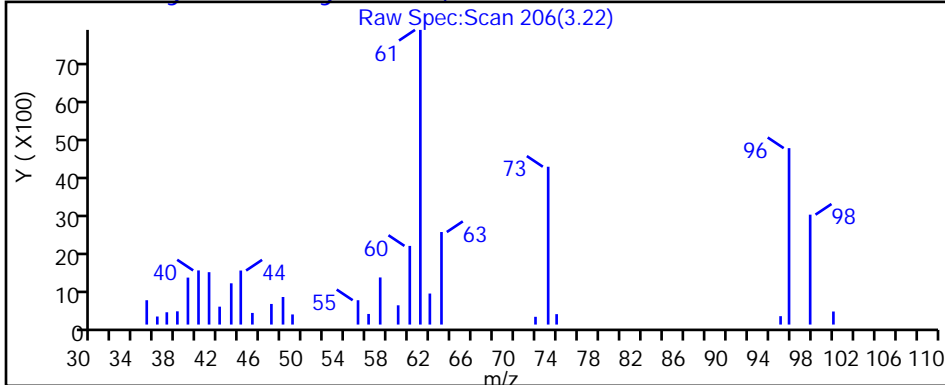
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

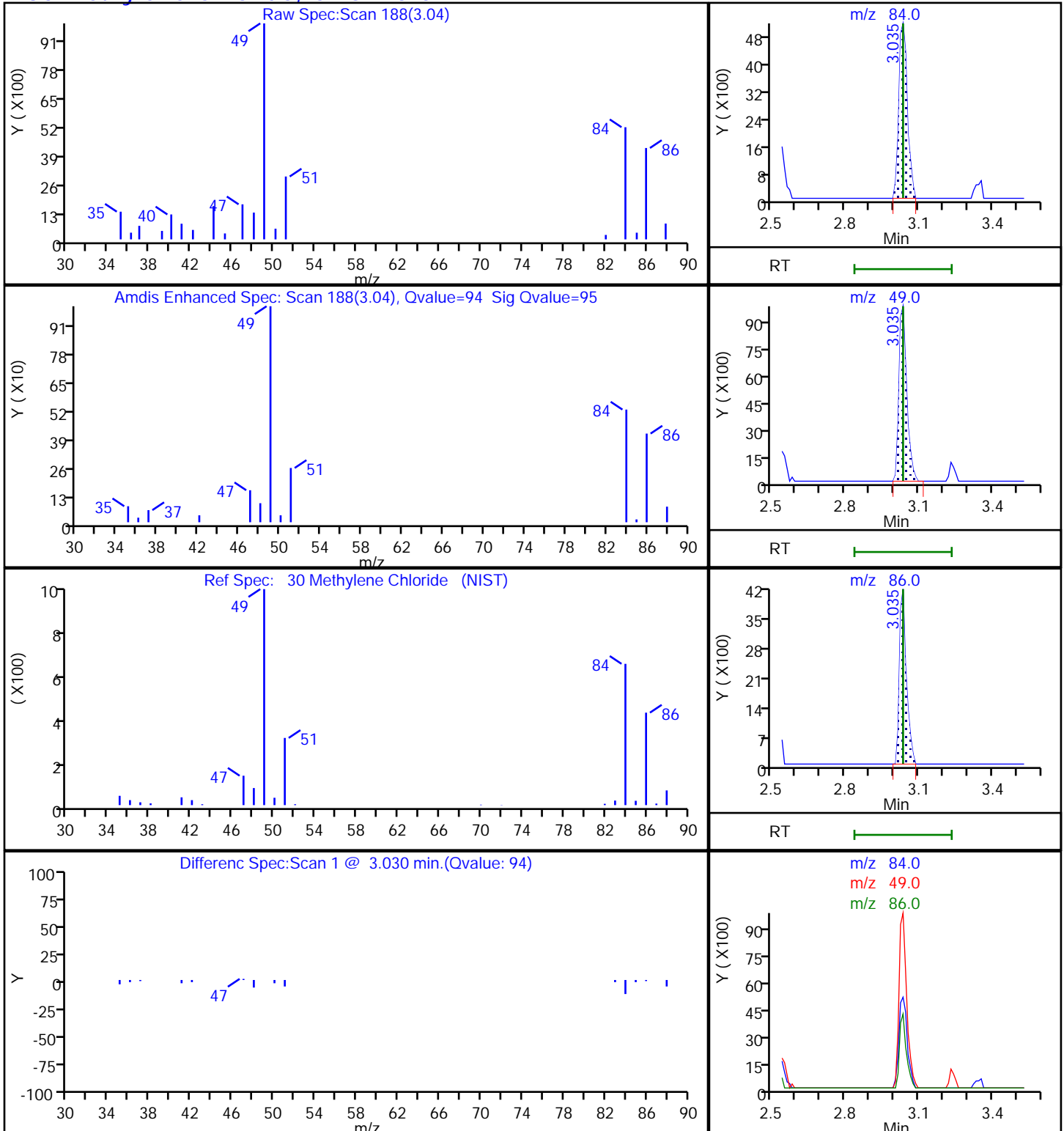
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

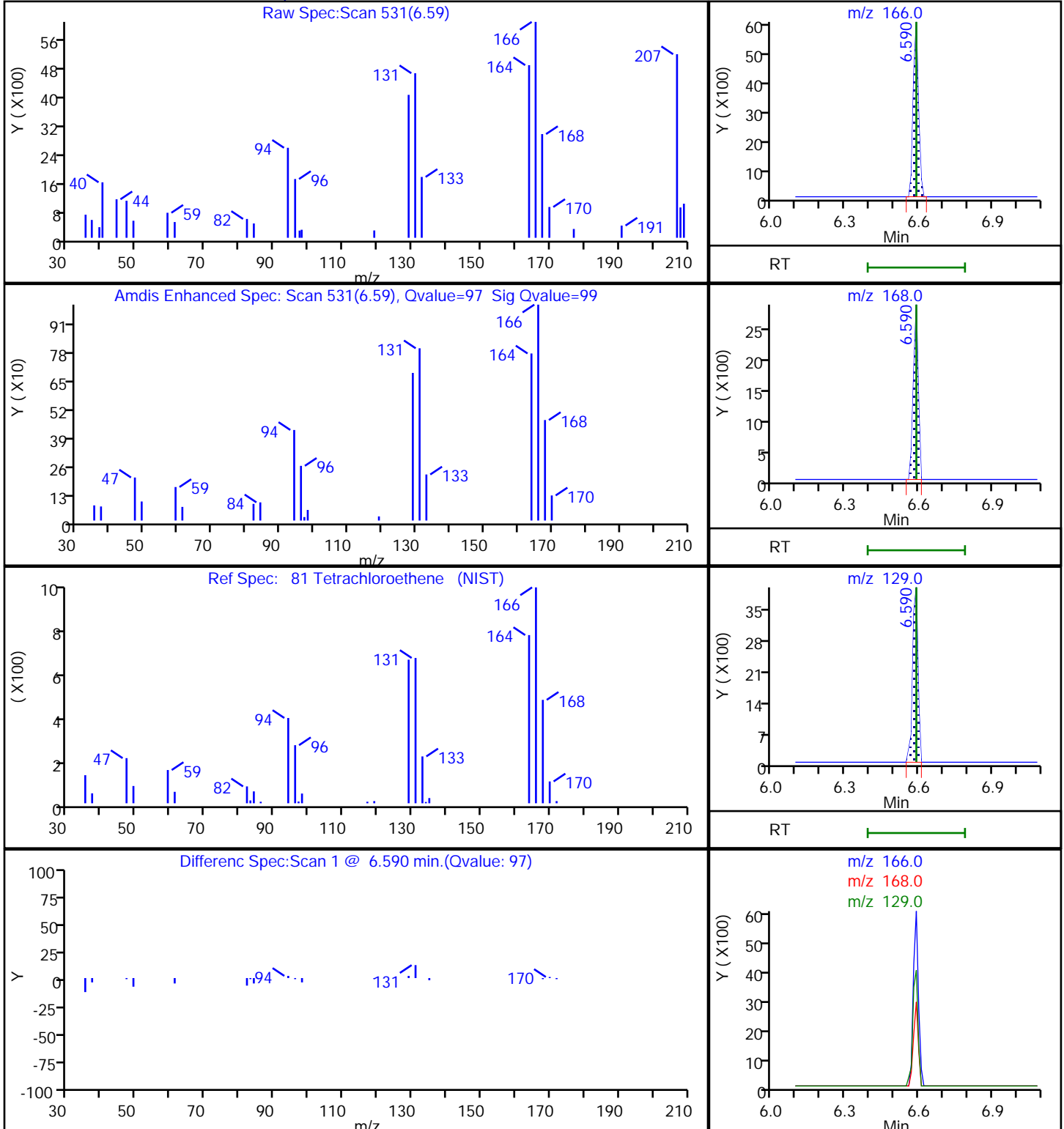
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

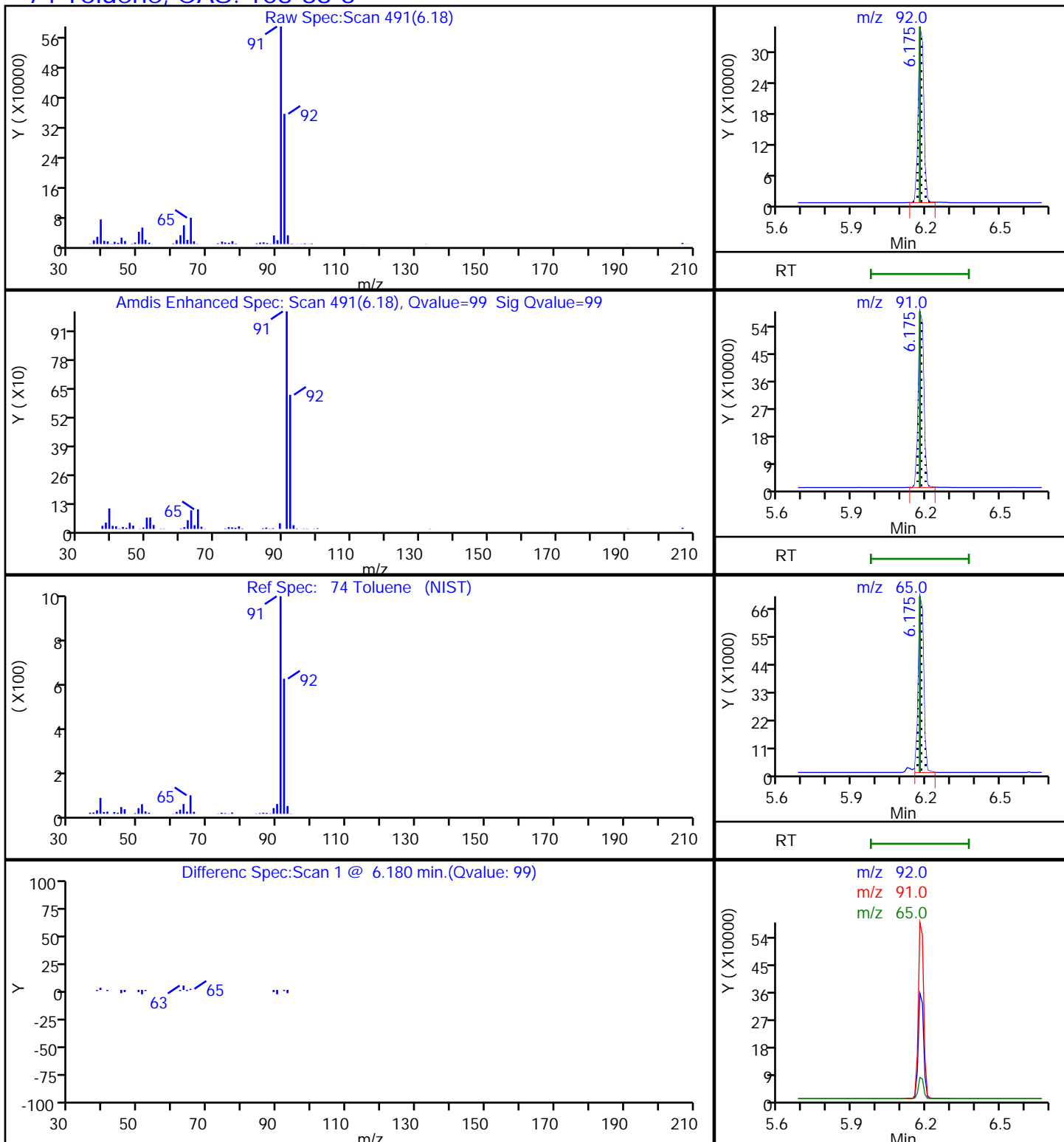
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

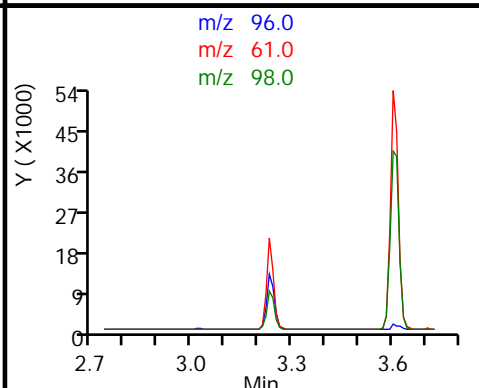
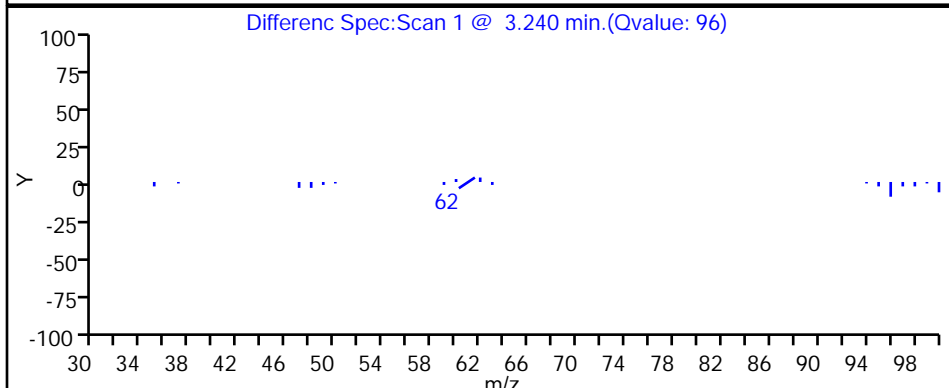
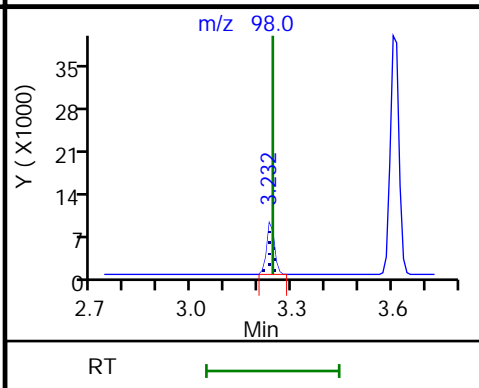
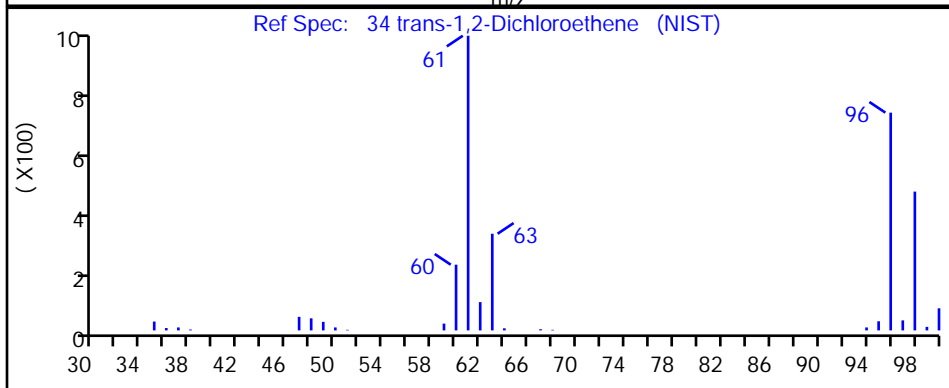
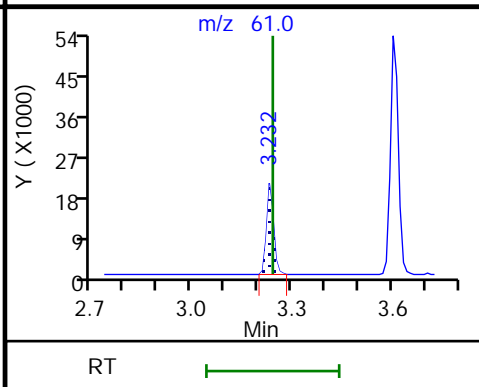
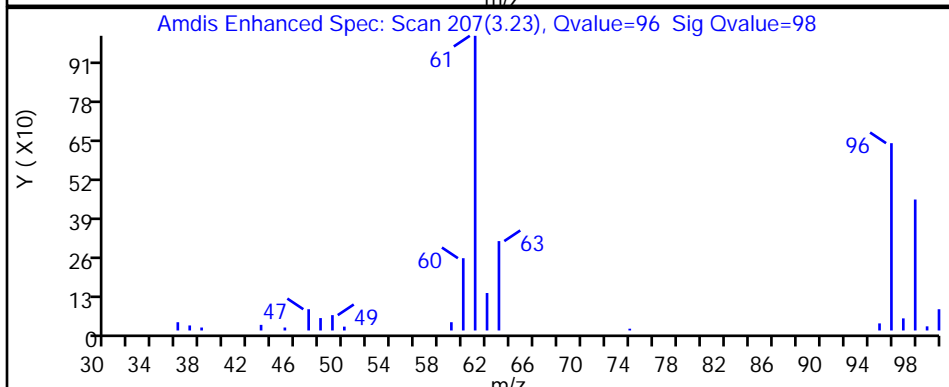
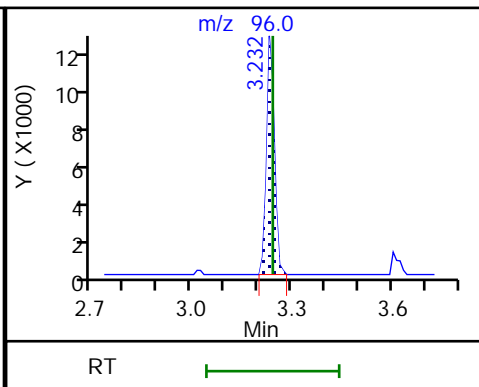
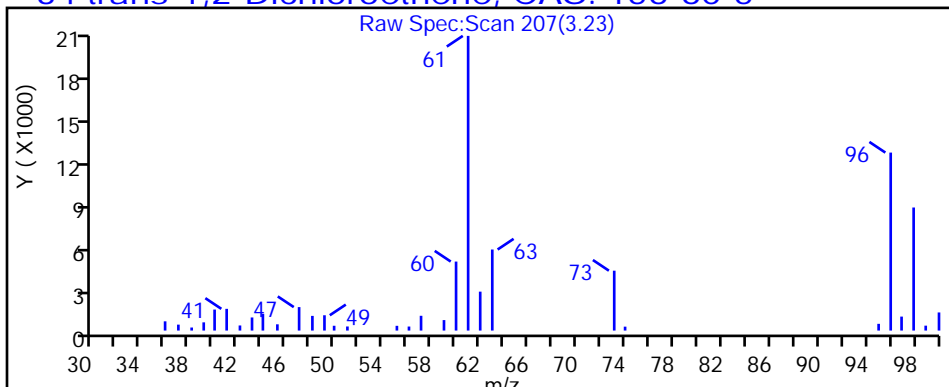
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

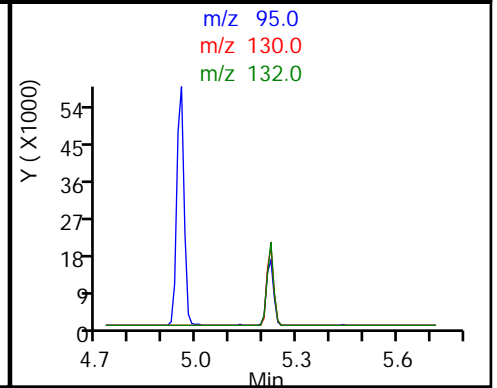
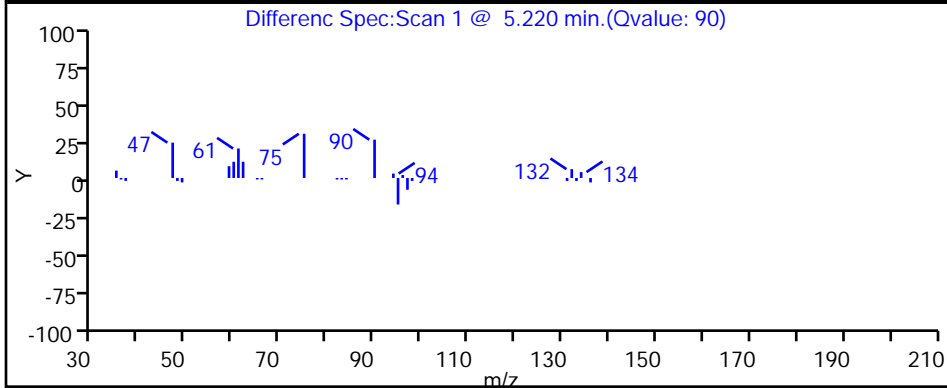
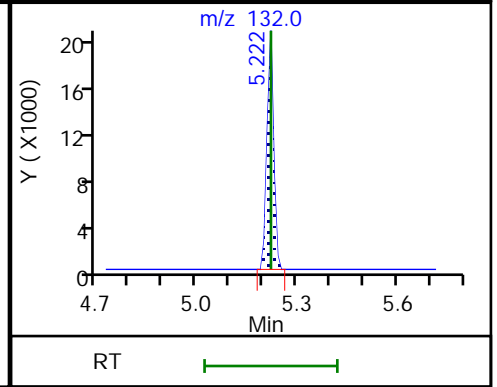
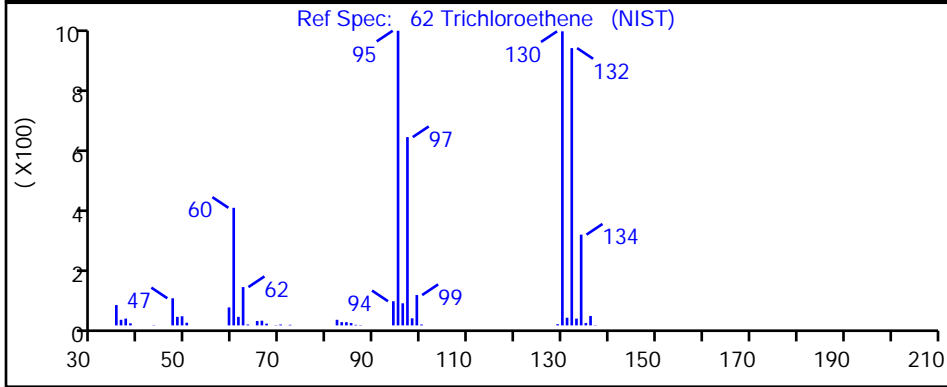
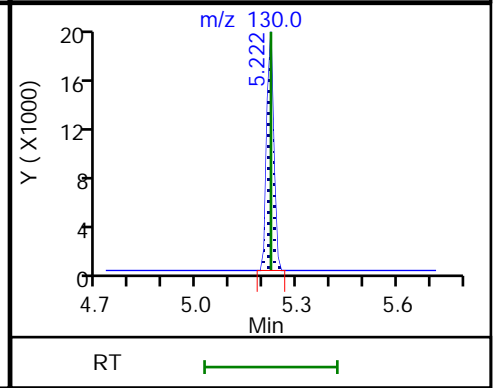
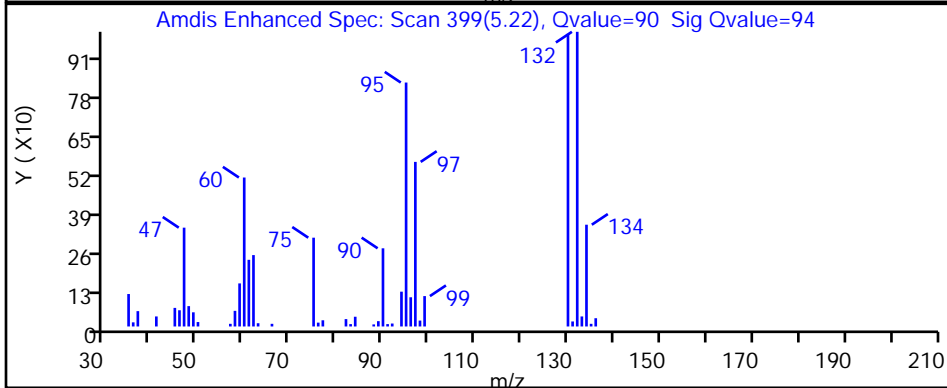
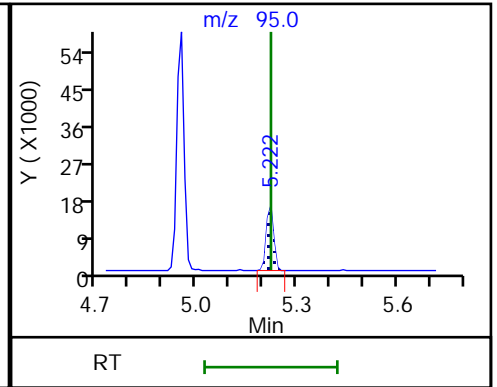
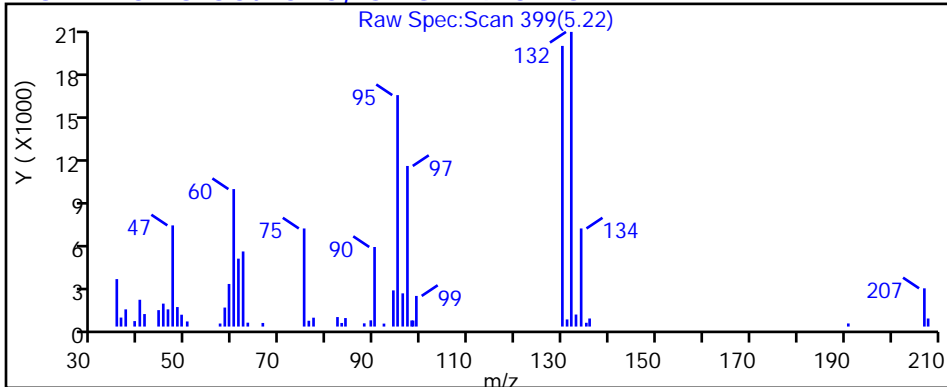
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

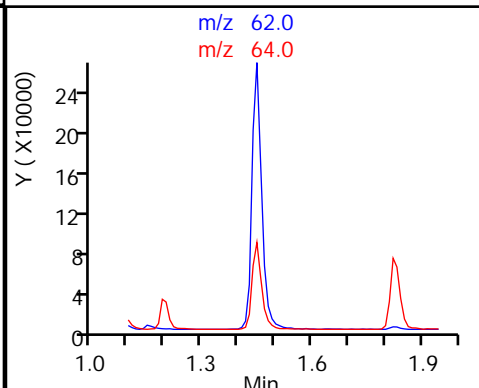
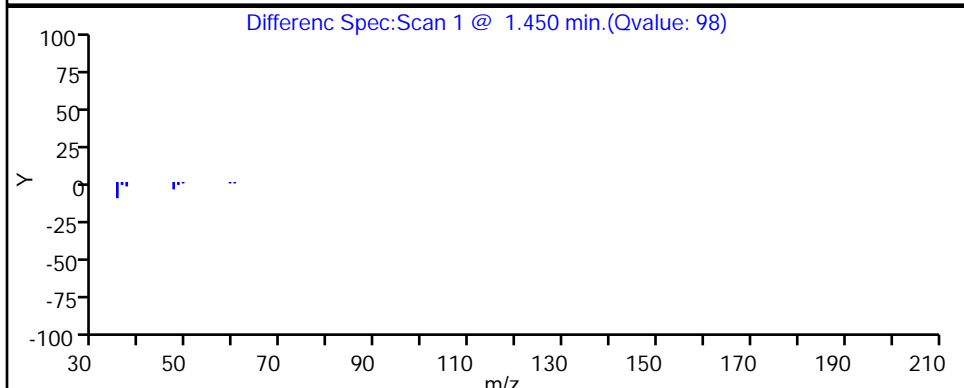
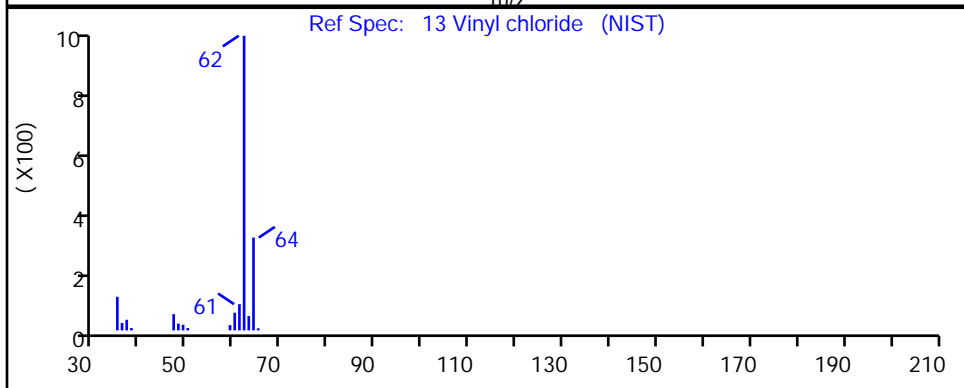
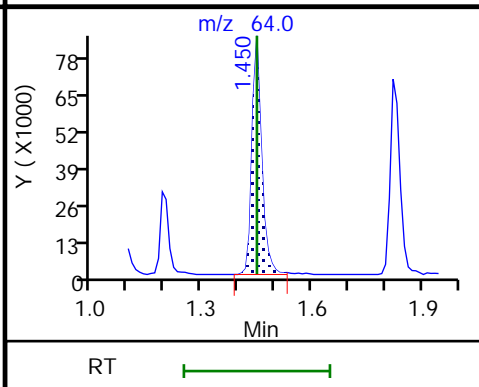
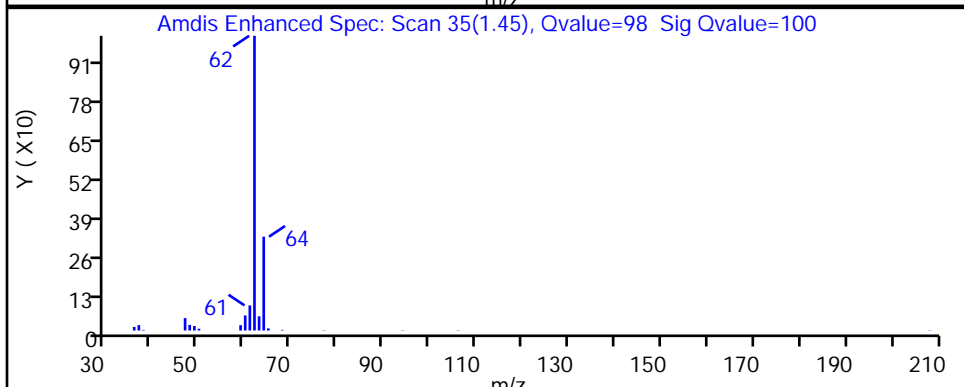
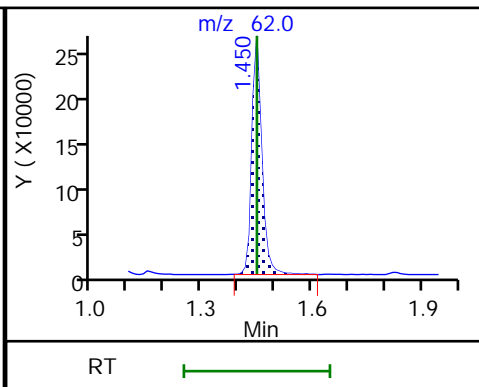
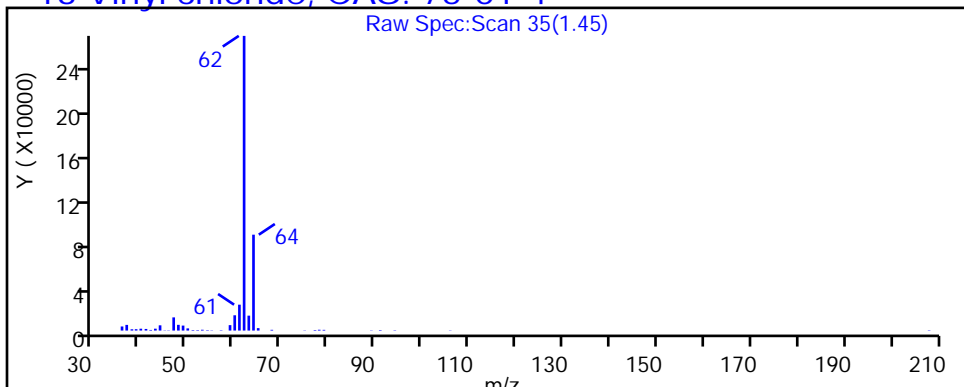
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

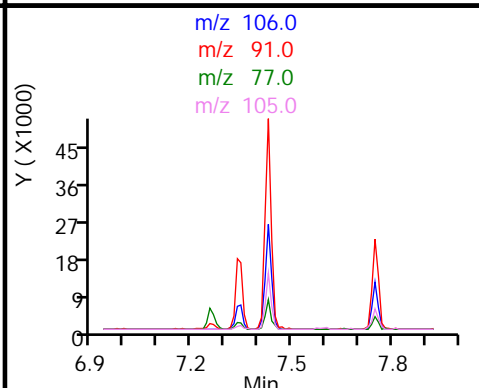
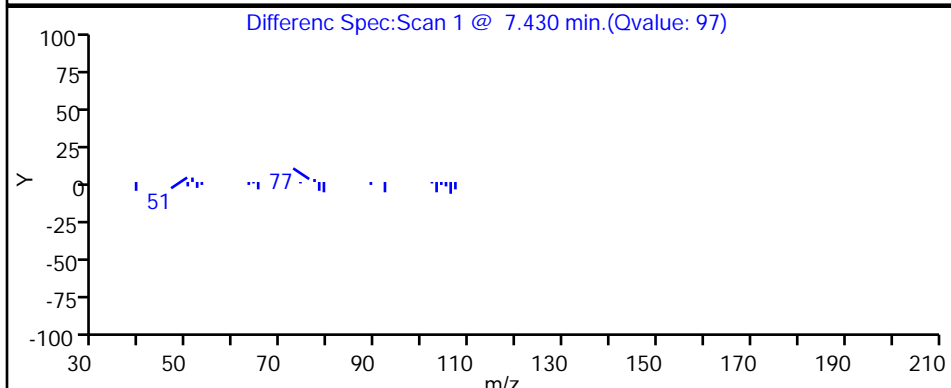
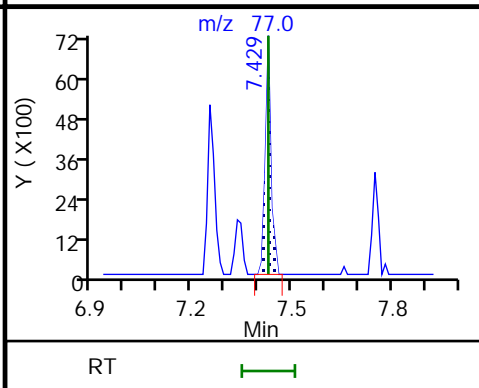
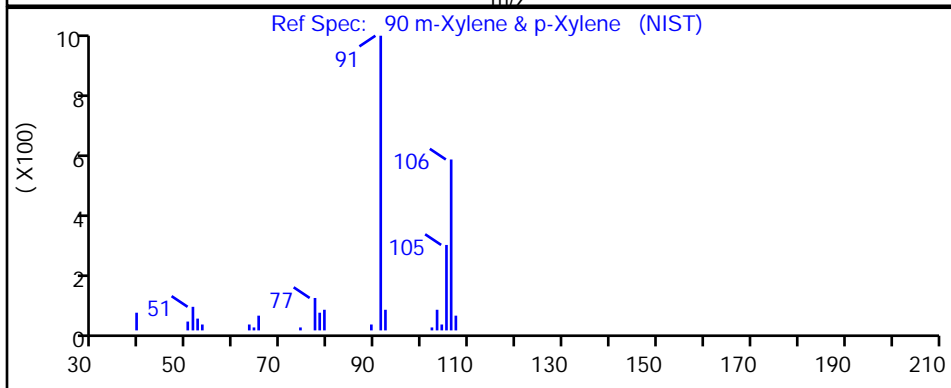
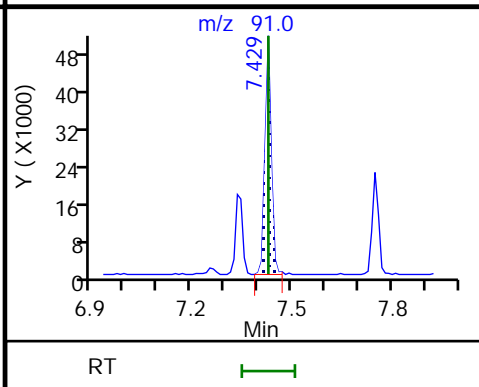
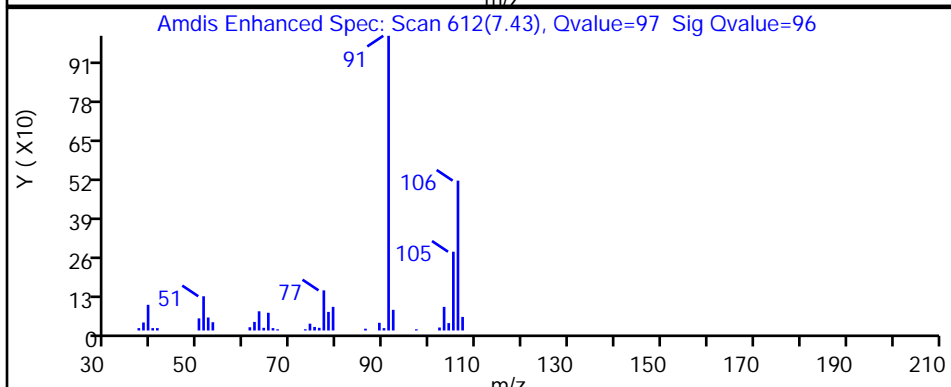
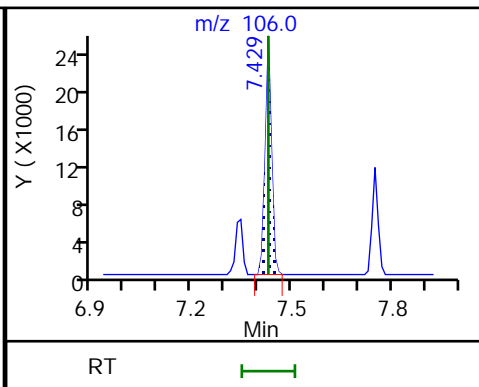
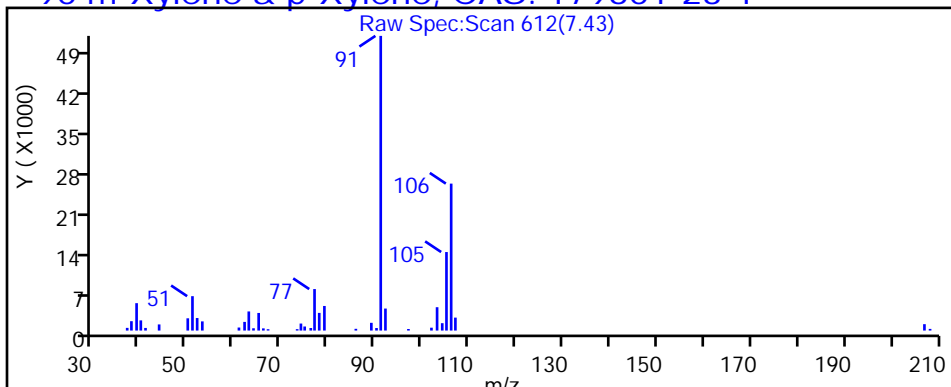
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

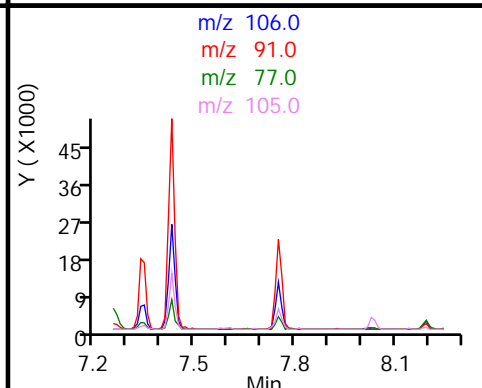
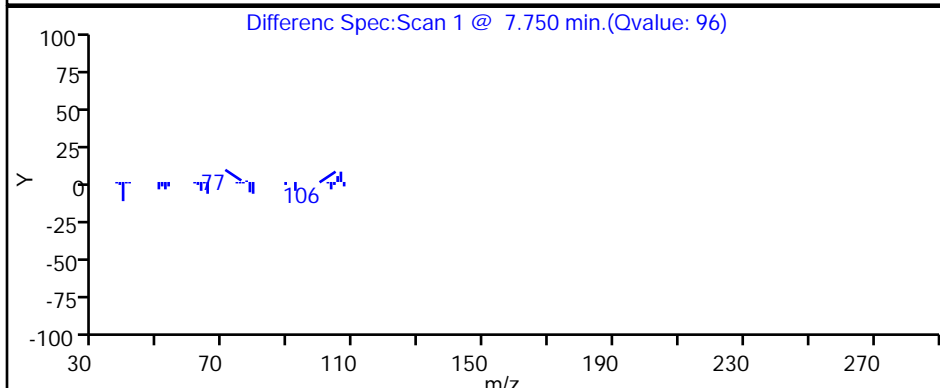
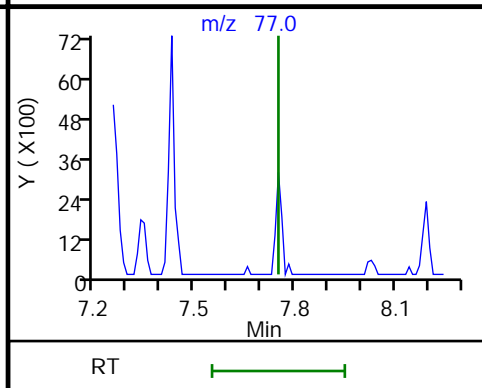
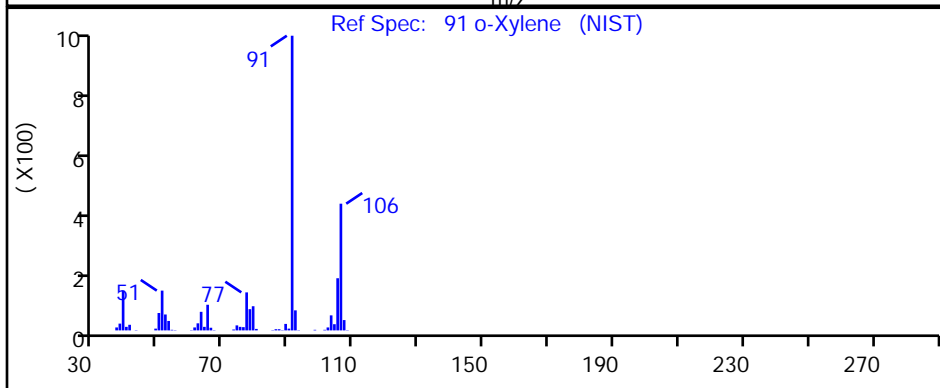
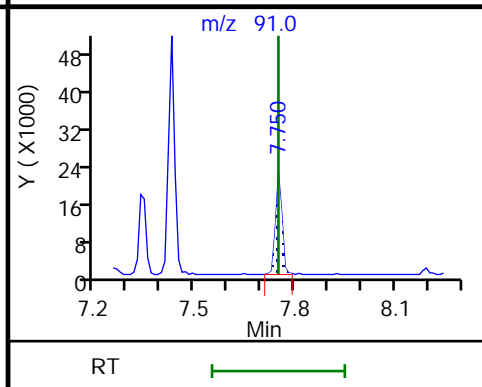
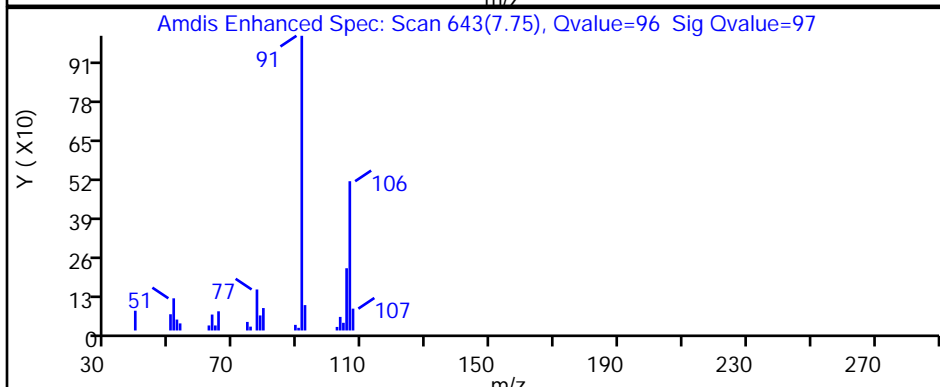
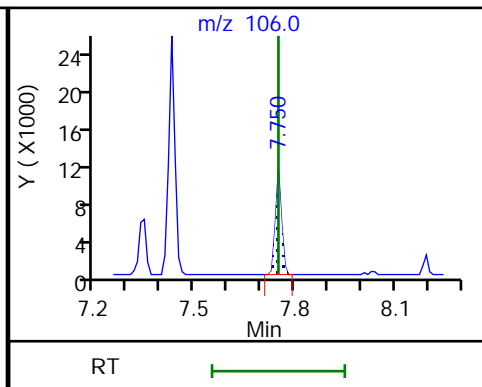
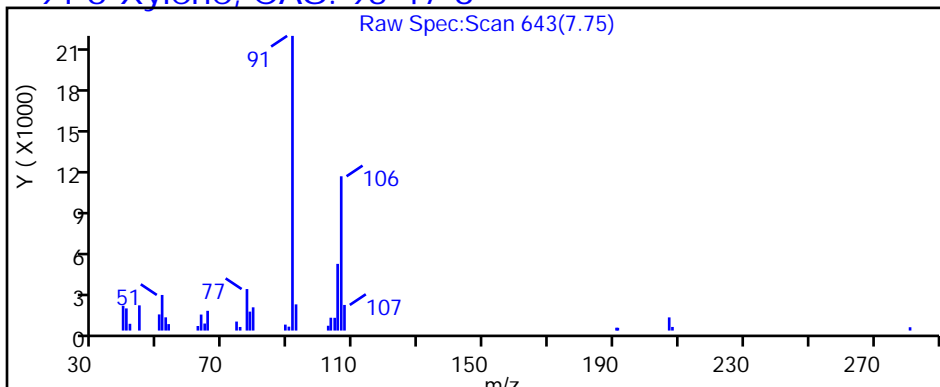
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

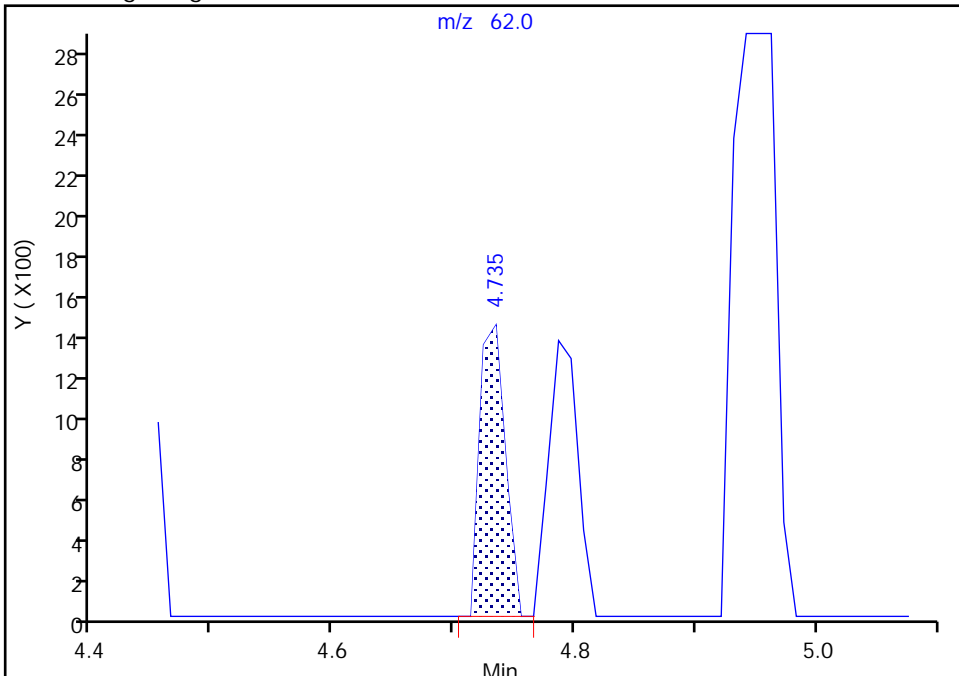
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
Injection Date: 02-Mar-2019 06:08:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: NC ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

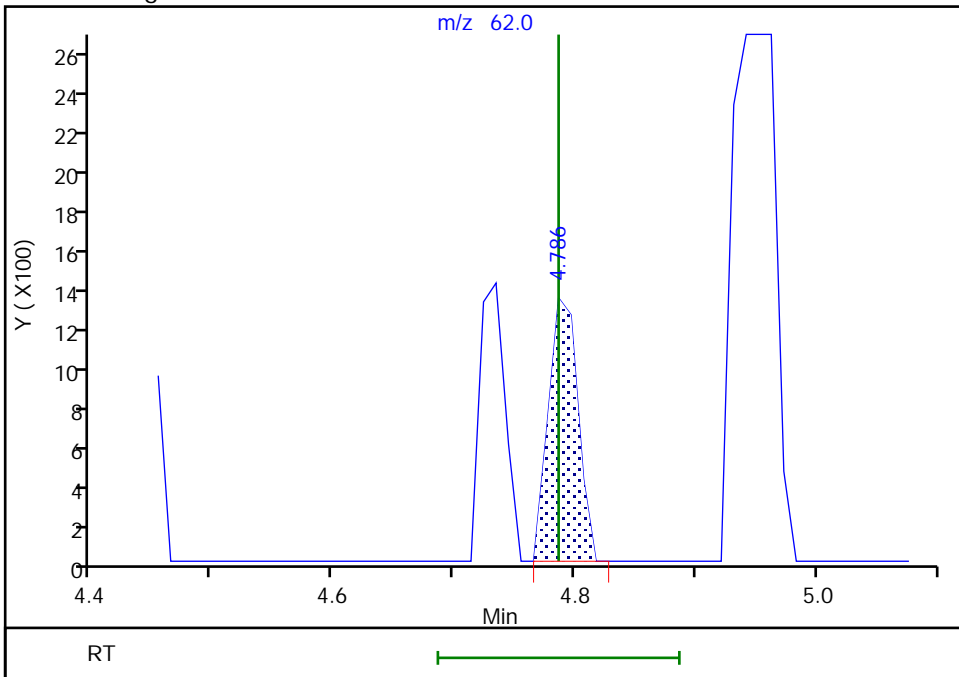
RT: 4.73
Area: 2052
Amount: 0.102448
Amount Units: ug/L

Processing Integration Results



RT: 4.79
Area: 2248
Amount: 0.112233
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

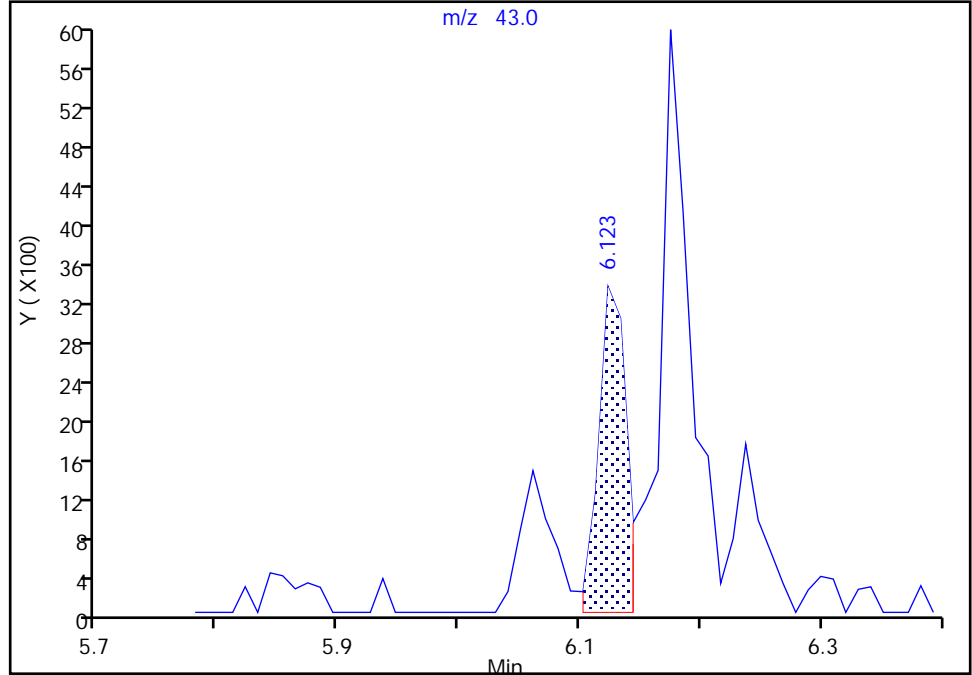
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
Injection Date: 02-Mar-2019 06:08:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: NC ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

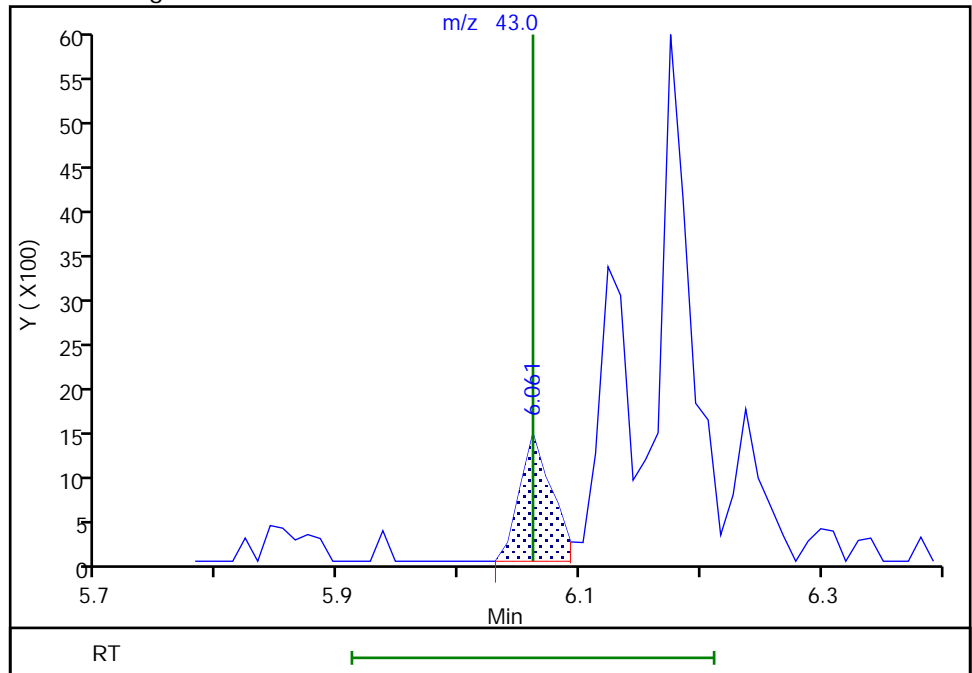
RT: 6.12
Area: 5390
Amount: 0.325722
Amount Units: ug/L

Processing Integration Results



RT: 6.06
Area: 2694
Amount: 0.162800
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:36:23
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

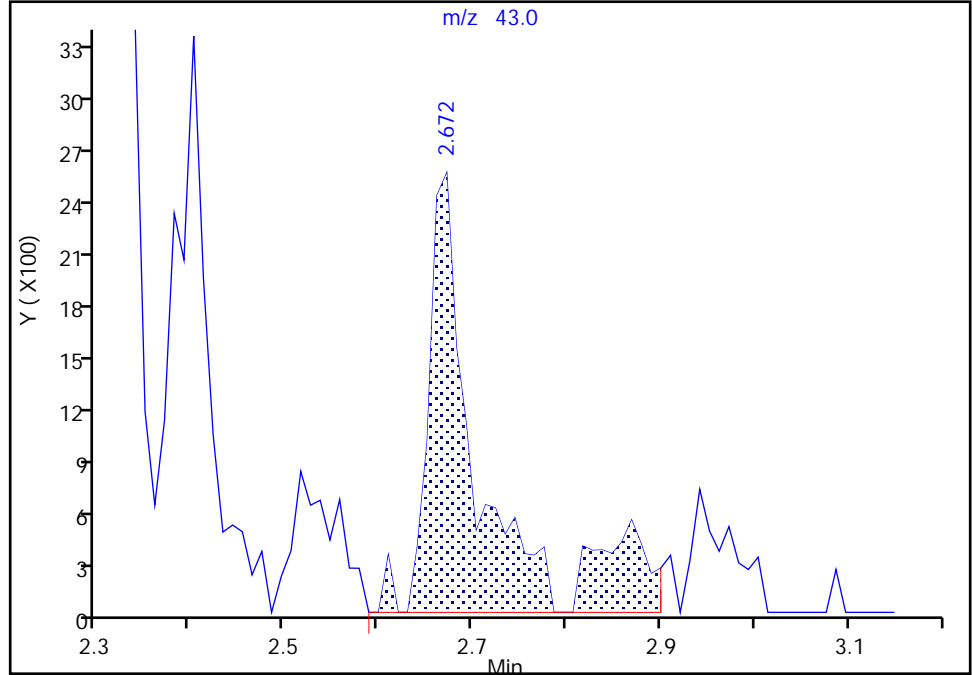
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
Injection Date: 02-Mar-2019 06:08:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: NC ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

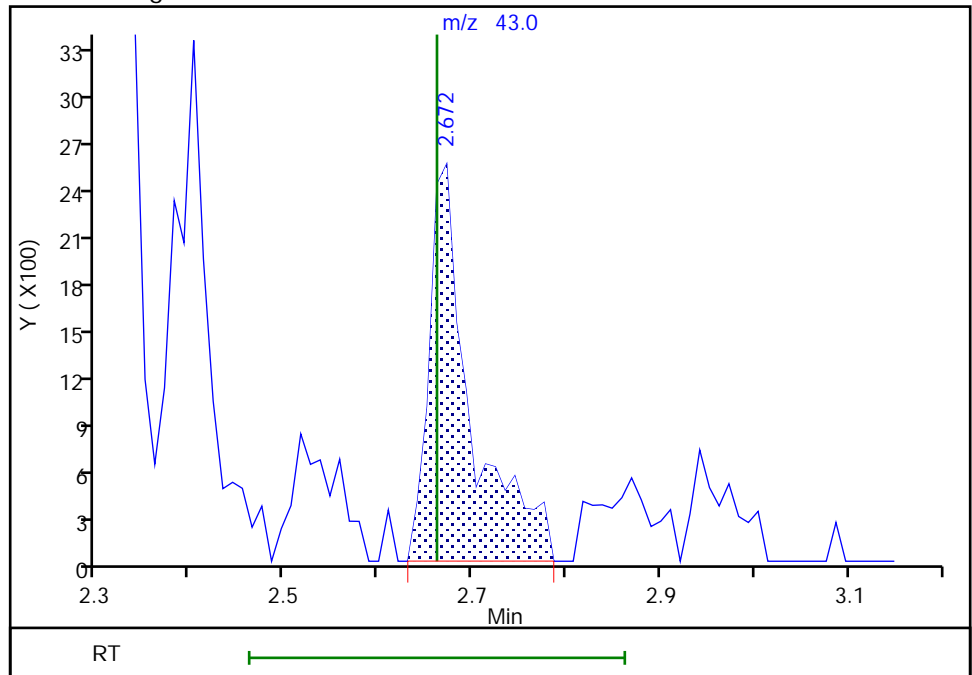
RT: 2.67
Area: 9944
Amount: 1.863970
Amount Units: ug/L

Processing Integration Results



RT: 2.67
Area: 7744
Amount: 1.451588
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:37:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

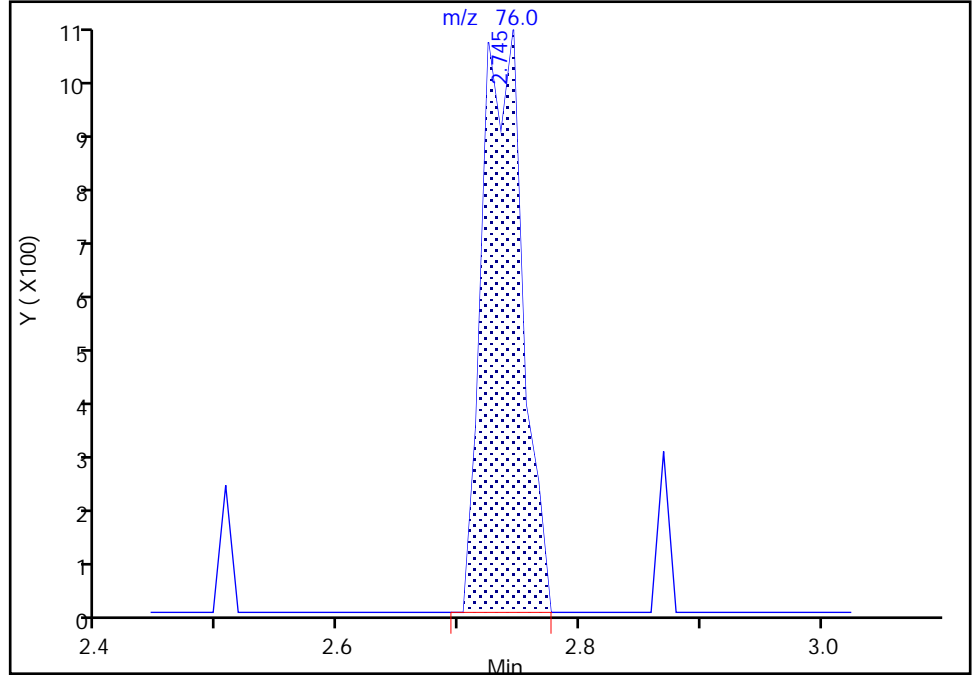
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
Injection Date: 02-Mar-2019 06:08:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: NC ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

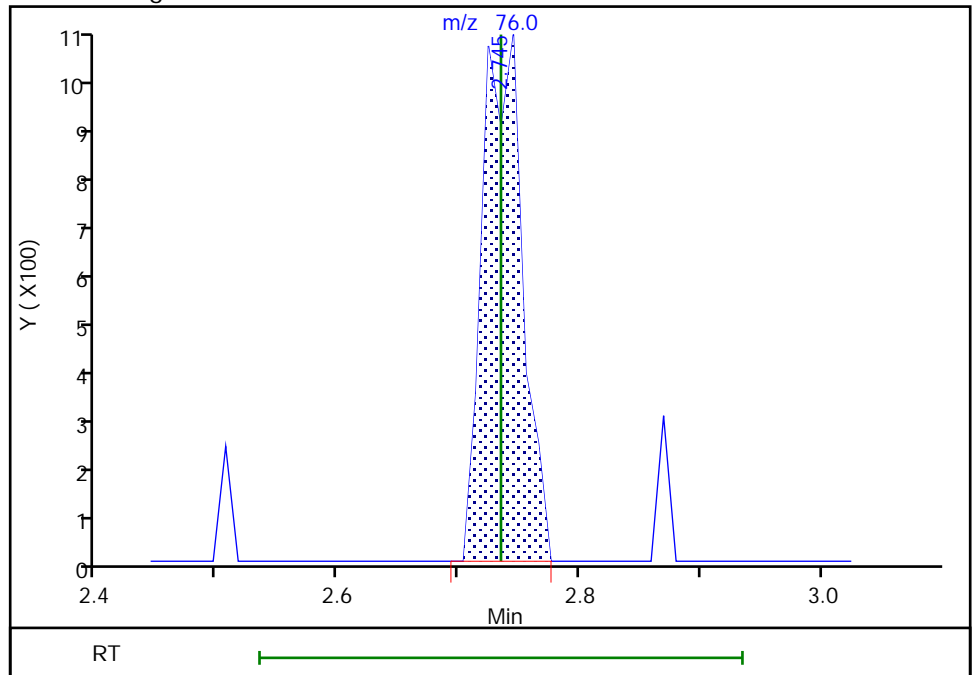
RT: 2.74
Area: 2343
Amount: 0.067702
Amount Units: ug/L

Processing Integration Results



RT: 2.74
Area: 2343
Amount: 0.067702
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 13:37:10
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

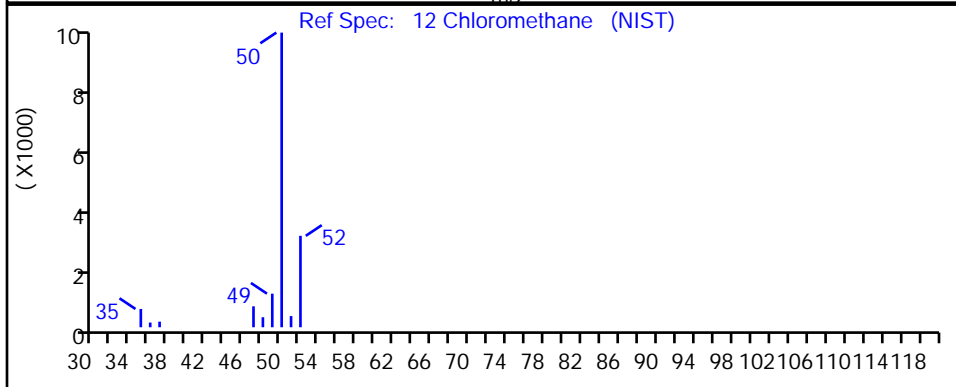
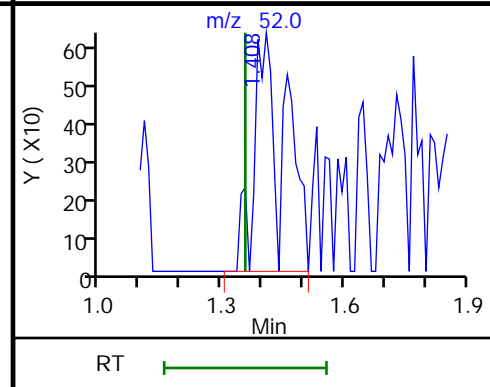
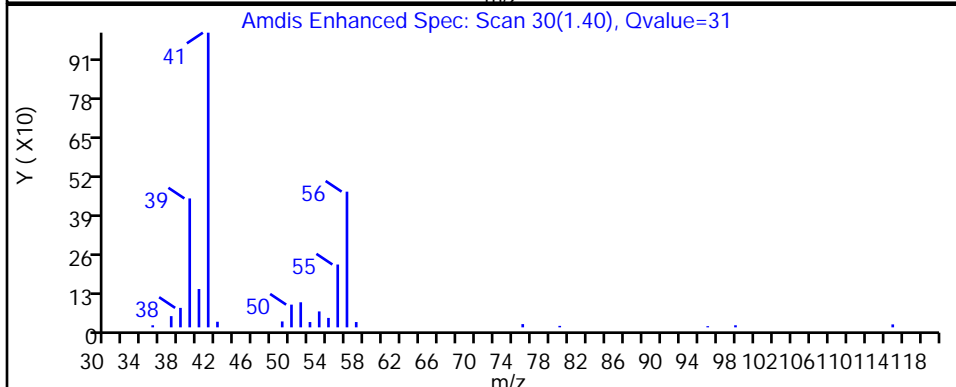
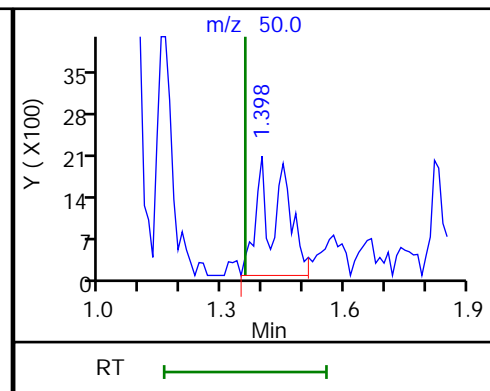
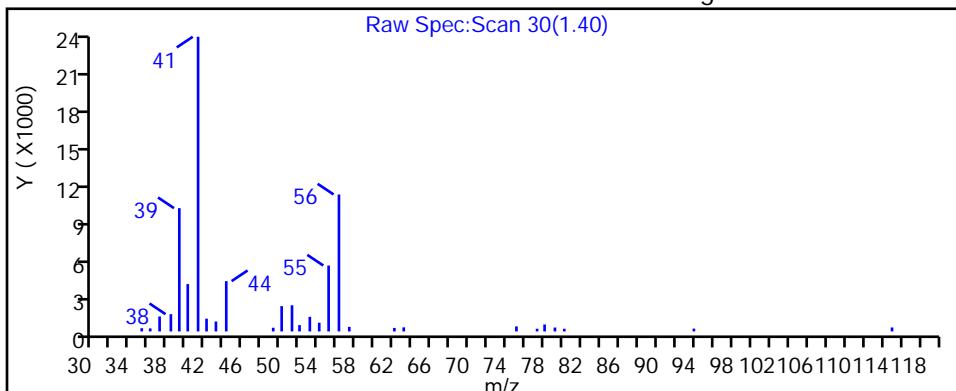
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.40	50.00	8970	0.517430
1.41	52.00	3319	

Reviewer: izquierdoo, 02-Mar-2019 13:37:32

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

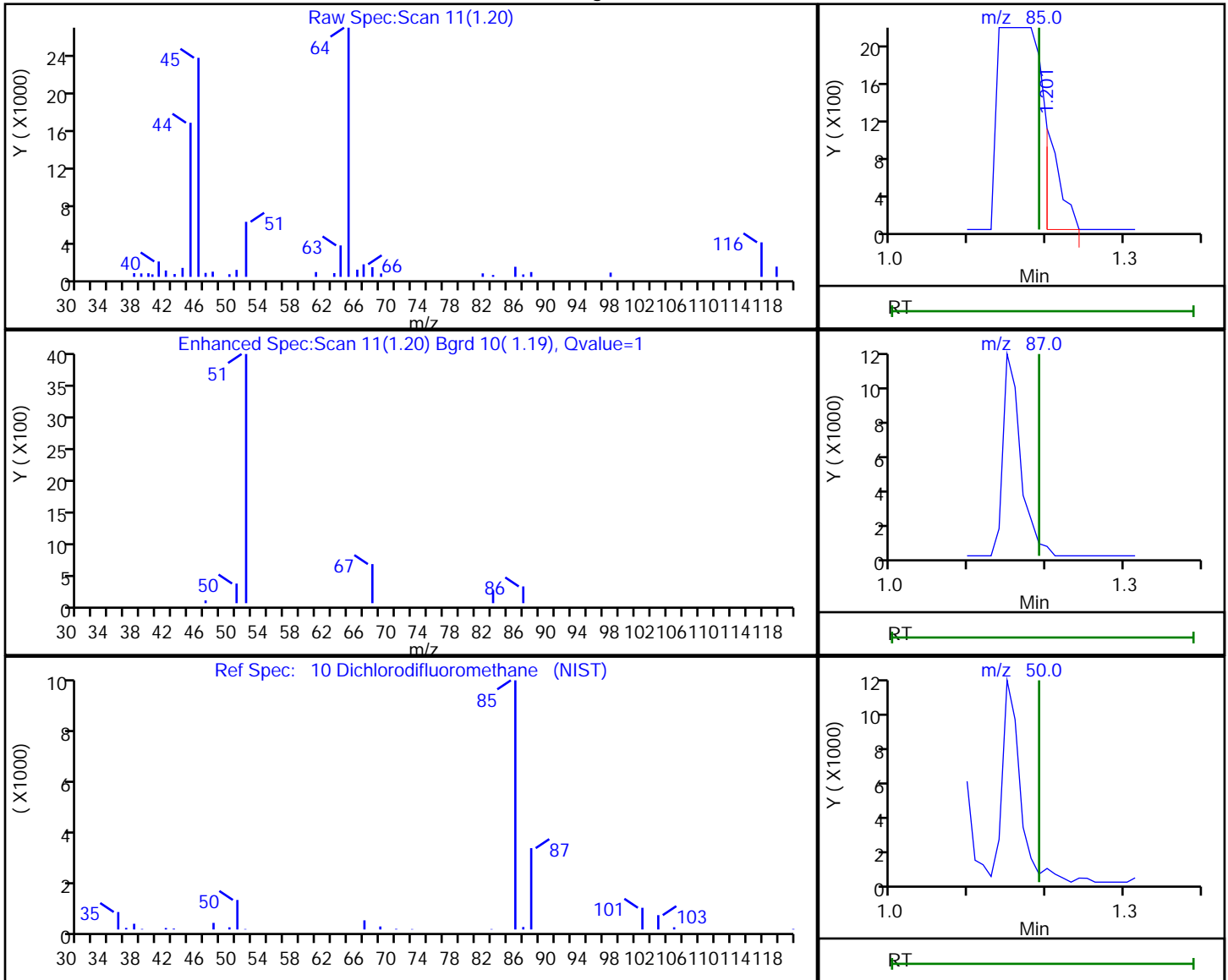
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.20	85.00	1547	0.112915
1.19	87.00	0	
1.19	50.00	0	

Reviewer: izquierdoo, 02-Mar-2019 13:38:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

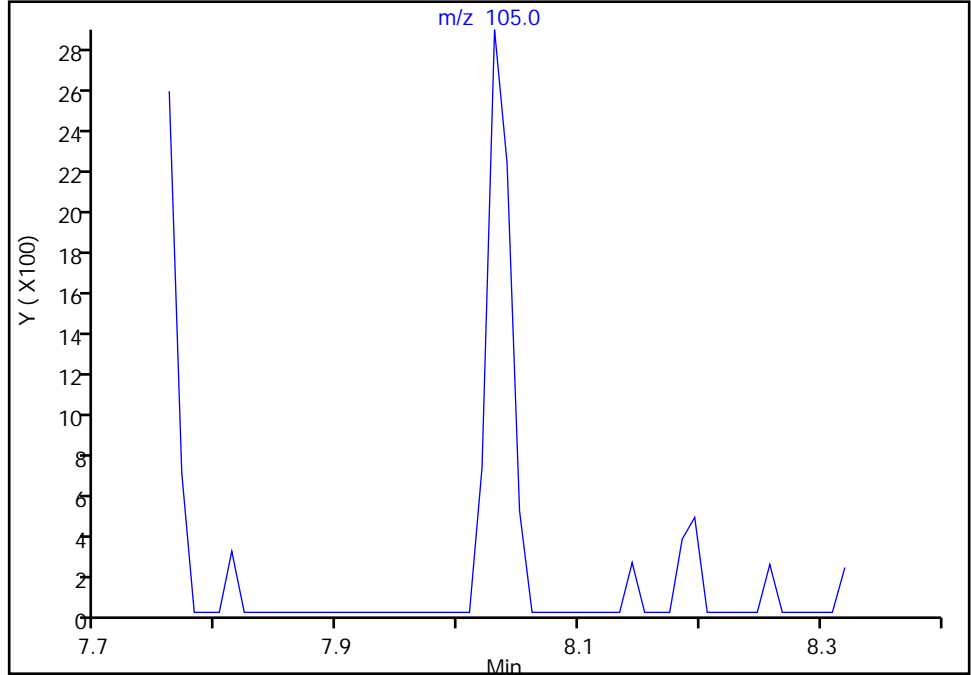
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
Injection Date: 02-Mar-2019 06:08:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: NC ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8

Signal: 1

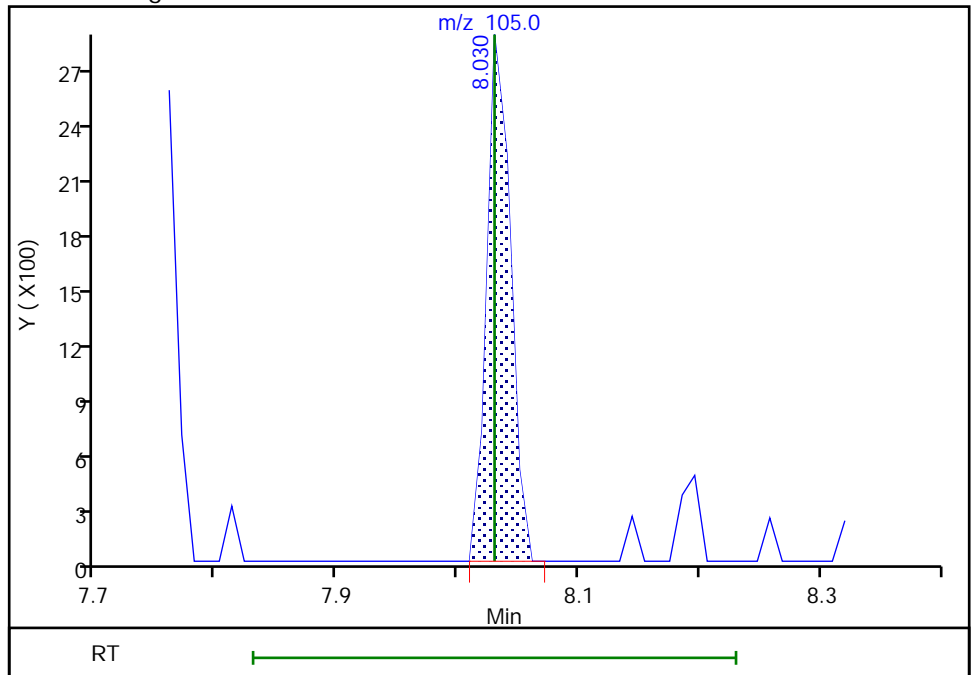
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.03
Area: 3916
Amount: 0.059308
Amount Units: ug/L



Reviewer: izquierdoo, 02-Mar-2019 13:36:00
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

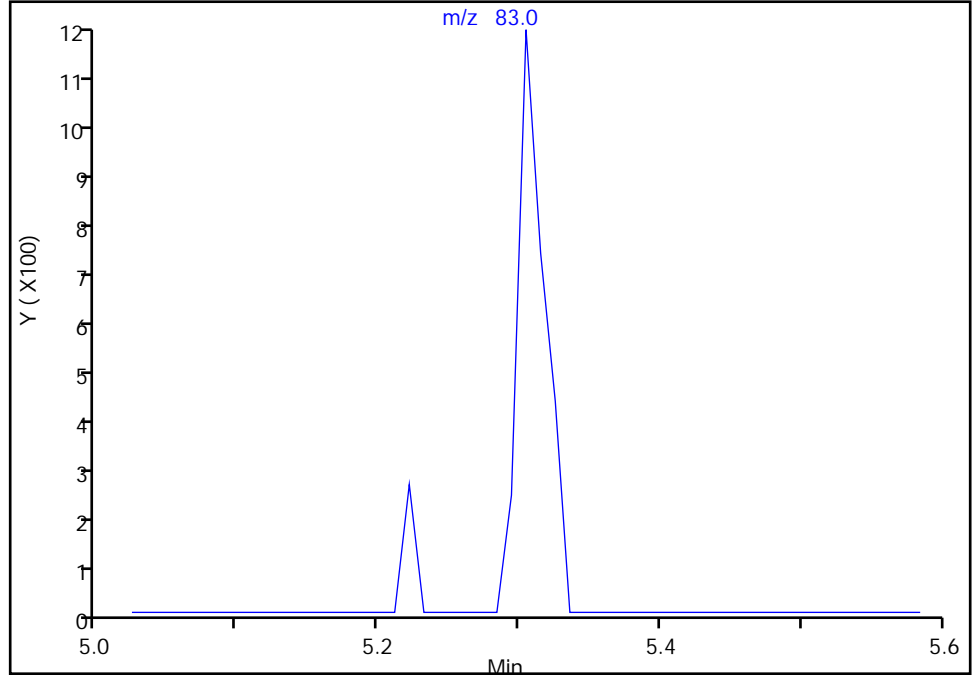
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D
Injection Date: 02-Mar-2019 06:08:30 Instrument ID: HP5973C
Lims ID: 480-149618-B-9 Lab Sample ID: 480-149618-9
Client ID: DUPE
Operator ID: NC ALS Bottle#: 21 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Signal: 1

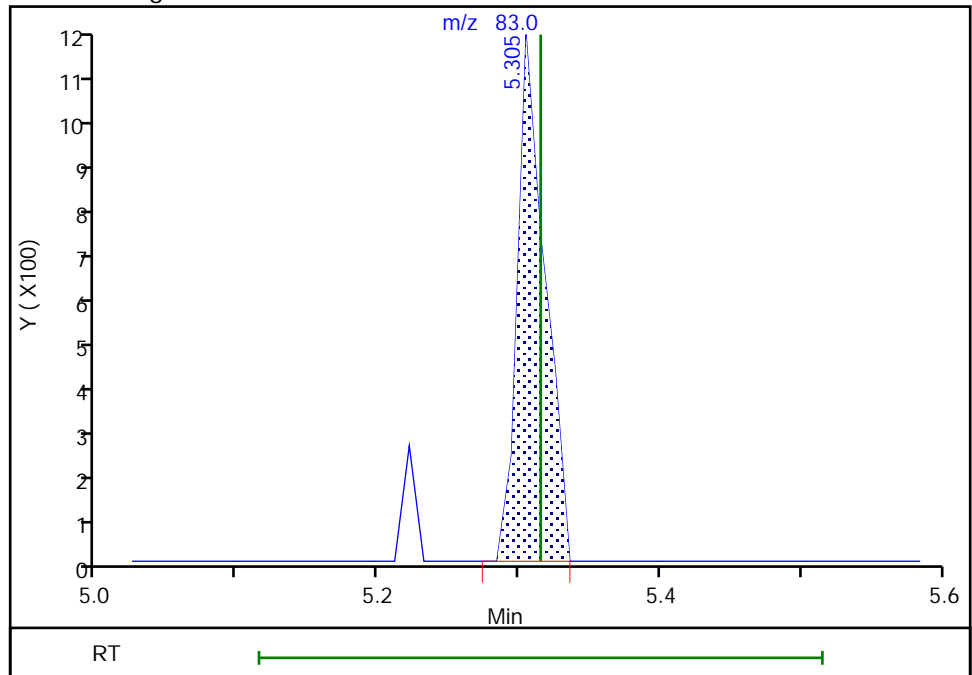
Not Detected
Expected RT: 5.31

Processing Integration Results



Manual Integration Results

RT: 5.30
Area: 1544
Amount: 0.091355
Amount Units: ug/L



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: C-8260

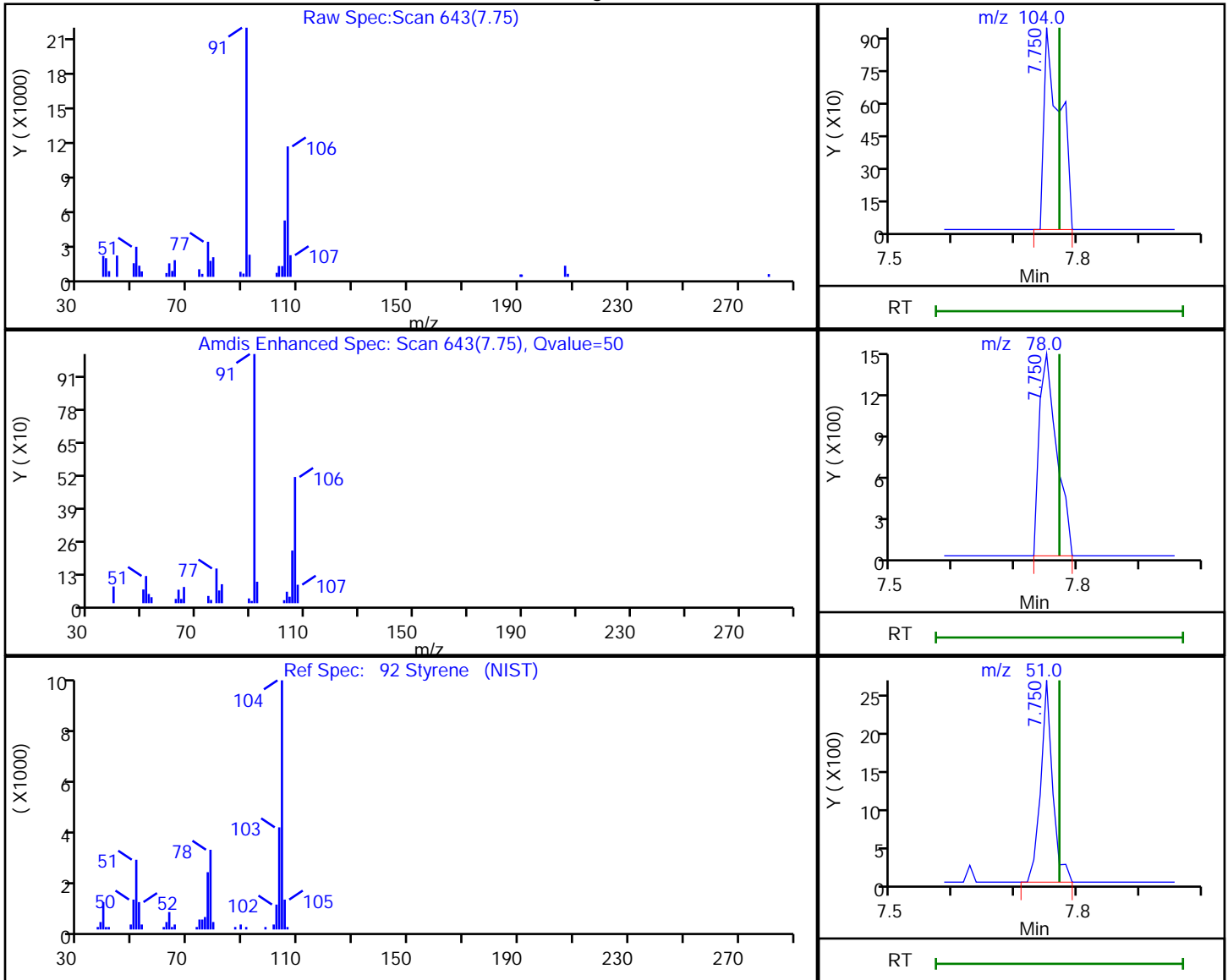
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

92 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
7.75	104.00	1669	0.044821
7.75	78.00	2754	
7.75	51.00	3550	

Reviewer: izquierdoo, 02-Mar-2019 15:30:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

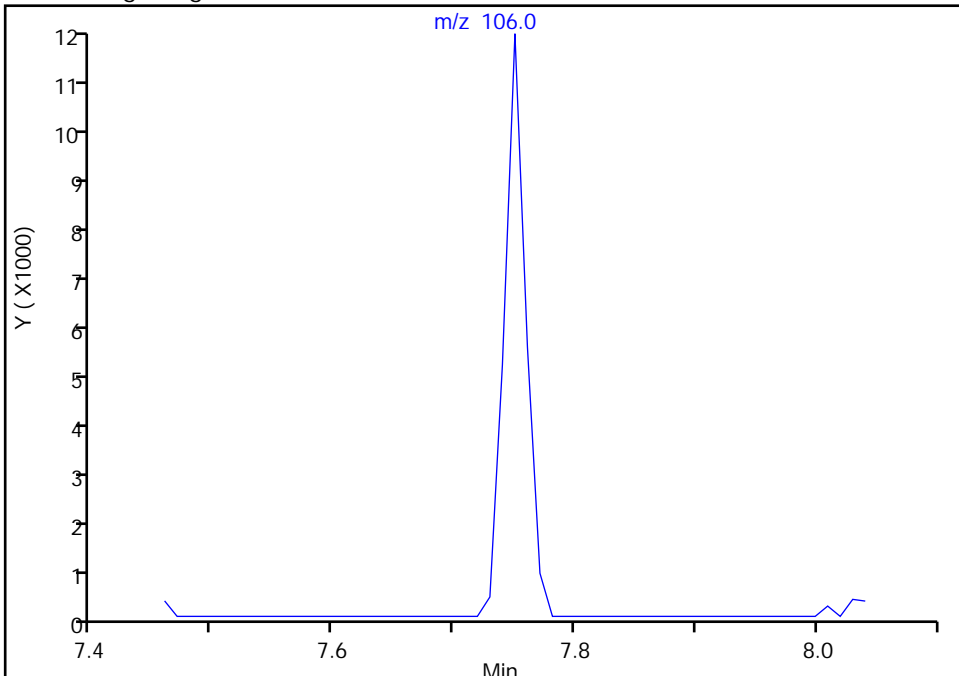
Data File:	\\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D				
Injection Date:	02-Mar-2019 06:08:30	Instrument ID:	HP5973C		
Lims ID:	480-149618-B-9	Lab Sample ID:	480-149618-9		
Client ID:	DUPE				
Operator ID:	NC	ALS Bottle#:	21	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	C-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

91 o-Xylene, CAS: 95-47-6

Signal: 1

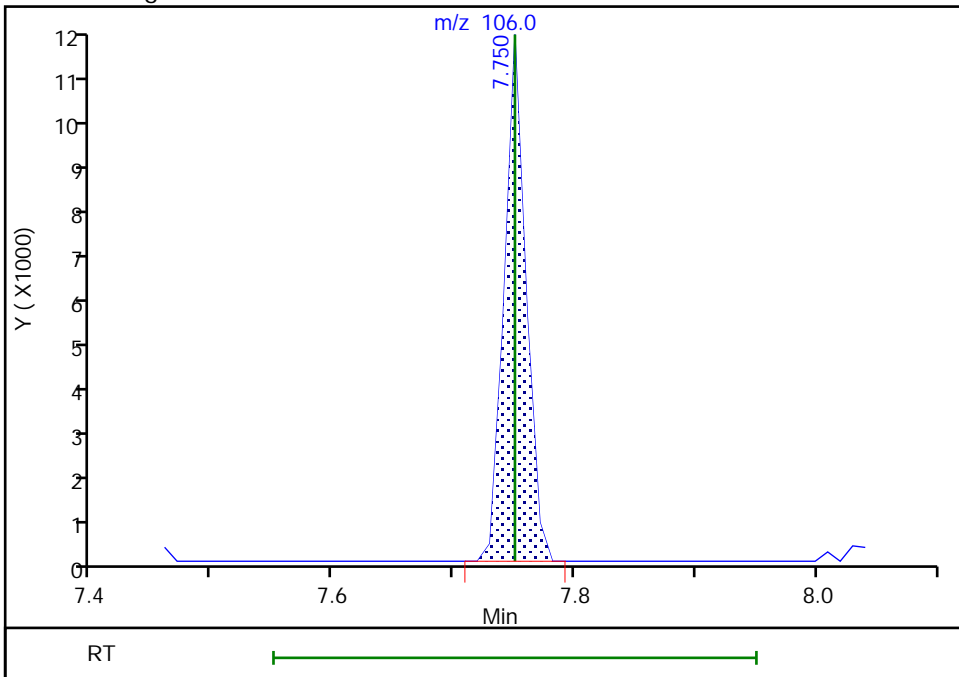
Not Detected
Expected RT: 7.75

Processing Integration Results



RT: 7.75
Area: 14280
Amount: 0.563962
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5020.D

Injection Date: 02-Mar-2019 06:08:30

Instrument ID: HP5973C

Lims ID: 480-149618-B-9

Lab Sample ID: 480-149618-9

Client ID: DUPE

Operator ID: NC

ALS Bottle#: 21 Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

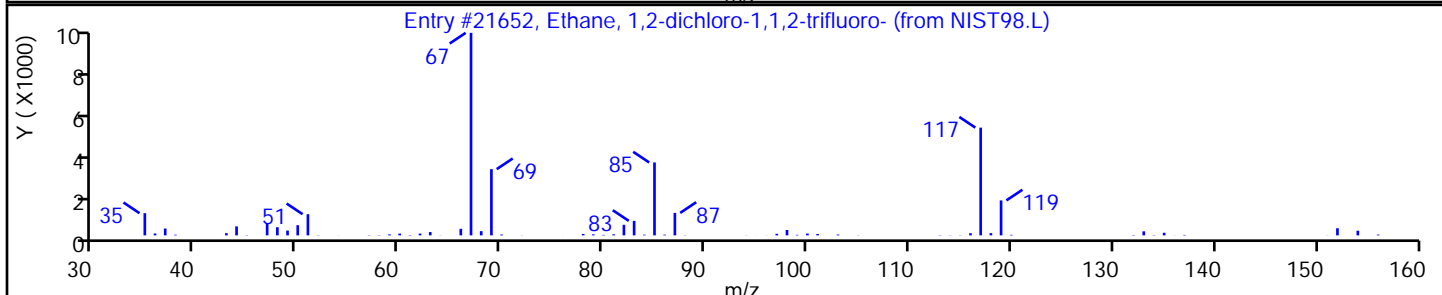
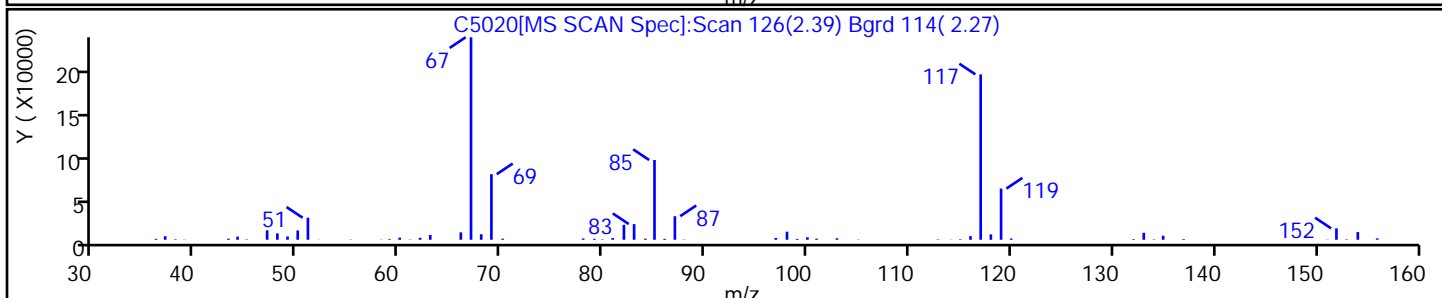
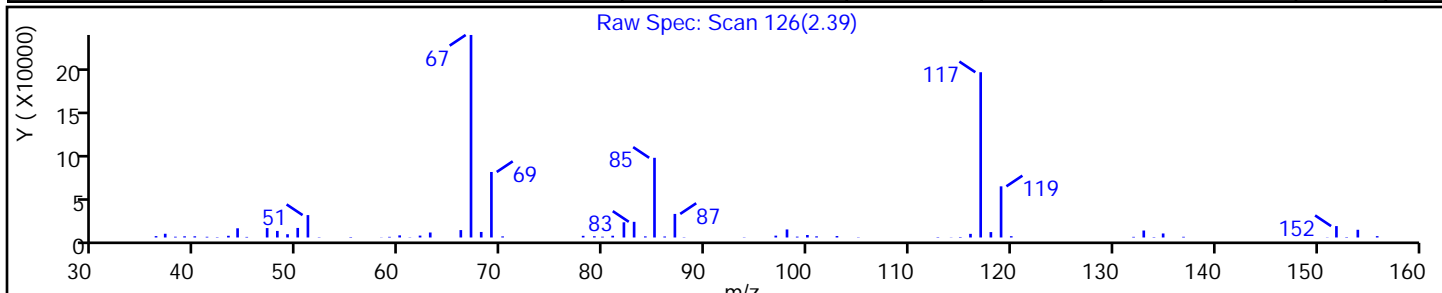
Method: C-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	94



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-149618-10
 Matrix: Water Lab File ID: C5021.D
 Analysis Method: 8260C Date Collected: 02/26/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 06:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	*	10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND	*	1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-149618-10
 Matrix: Water Lab File ID: C5021.D
 Analysis Method: 8260C Date Collected: 02/26/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 06:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-149618-10
 Matrix: Water Lab File ID: C5021.D
 Analysis Method: 8260C Date Collected: 02/26/2019 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 06:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5021.D
 Lims ID: 480-149618-A-10
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 02-Mar-2019 06:35:30 ALS Bottle#: 22 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-149618-A-10
 Misc. Info.: 480-0079070-025
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 13:40:32 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 13:40:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	207791	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	86	443795	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	95	477576	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	307317	25.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	98	187879	25.8	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.125	0.000	94	1128257	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.184	0.000	93	367768	26.3	
10 Dichlorodifluoromethane	85		1.190				ND	
12 Chloromethane	50		1.356				ND	
13 Vinyl chloride	62	1.450	1.439	0.000	91	3528	0.2448	
14 Bromomethane	94		1.740				ND	
15 Chloroethane	64		1.833				ND	
17 Trichlorofluoromethane	101		2.051				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.538				ND	
22 1,1-Dichloroethene	96		2.548				ND	
23 Acetone	43		2.662				ND	Ua
26 Carbon disulfide	76		2.735				ND	
27 Methyl acetate	43		2.942				ND	
30 Methylene Chloride	84	3.035	3.025	0.000	89	3021	0.2200	
32 Methyl tert-butyl ether	73		3.222				ND	
34 trans-1,2-Dichloroethene	96		3.242				ND	
39 1,1-Dichloroethane	63		3.605				ND	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	82	2581	0.1659	
43 2-Butanone (MEK)	43		4.134				ND	
50 Chloroform	83		4.351				ND	
51 1,1,1-Trichloroethane	97		4.444				ND	
52 Cyclohexane	56		4.444				ND	
55 Carbon tetrachloride	117		4.558				ND	
57 Benzene	78		4.735				ND	
58 1,2-Dichloroethane	62		4.786				ND	
62 Trichloroethene	95		5.222				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.315				ND	
65 1,2-Dichloropropane	63		5.408				ND	
68 Dichlorobromomethane	83		5.636				ND	
72 cis-1,3-Dichloropropene	75		5.957				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.061				ND	
74 Toluene	92		6.175				ND	U
77 trans-1,3-Dichloropropene	75		6.393				ND	
79 1,1,2-Trichloroethane	83		6.538				ND	
81 Tetrachloroethene	166		6.590				ND	
80 2-Hexanone	43		6.704				ND	
83 Chlorodibromomethane	129		6.849				ND	
84 Ethylene Dibromide	107		6.932				ND	
87 Chlorobenzene	112		7.284				ND	
88 Ethylbenzene	91		7.336				ND	
90 m-Xylene & p-Xylene	106		7.429				ND	Ua
91 o-Xylene	106		7.750				ND	
92 Styrene	104		7.771				ND	
95 Bromoform	173		7.968				ND	
94 Isopropylbenzene	105		8.030				ND	
97 1,1,2,2-Tetrachloroethane	83		8.341				ND	
111 1,3-Dichlorobenzene	146		9.077				ND	
113 1,4-Dichlorobenzene	146		9.149				ND	
116 1,2-Dichlorobenzene	146		9.460				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134				ND	
119 1,2,4-Trichlorobenzene	180		10.776				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5021.D

Injection Date: 02-Mar-2019 06:35:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: 480-149618-A-10

Lab Sample ID: 480-149618-10

Worklist Smp#: 25

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

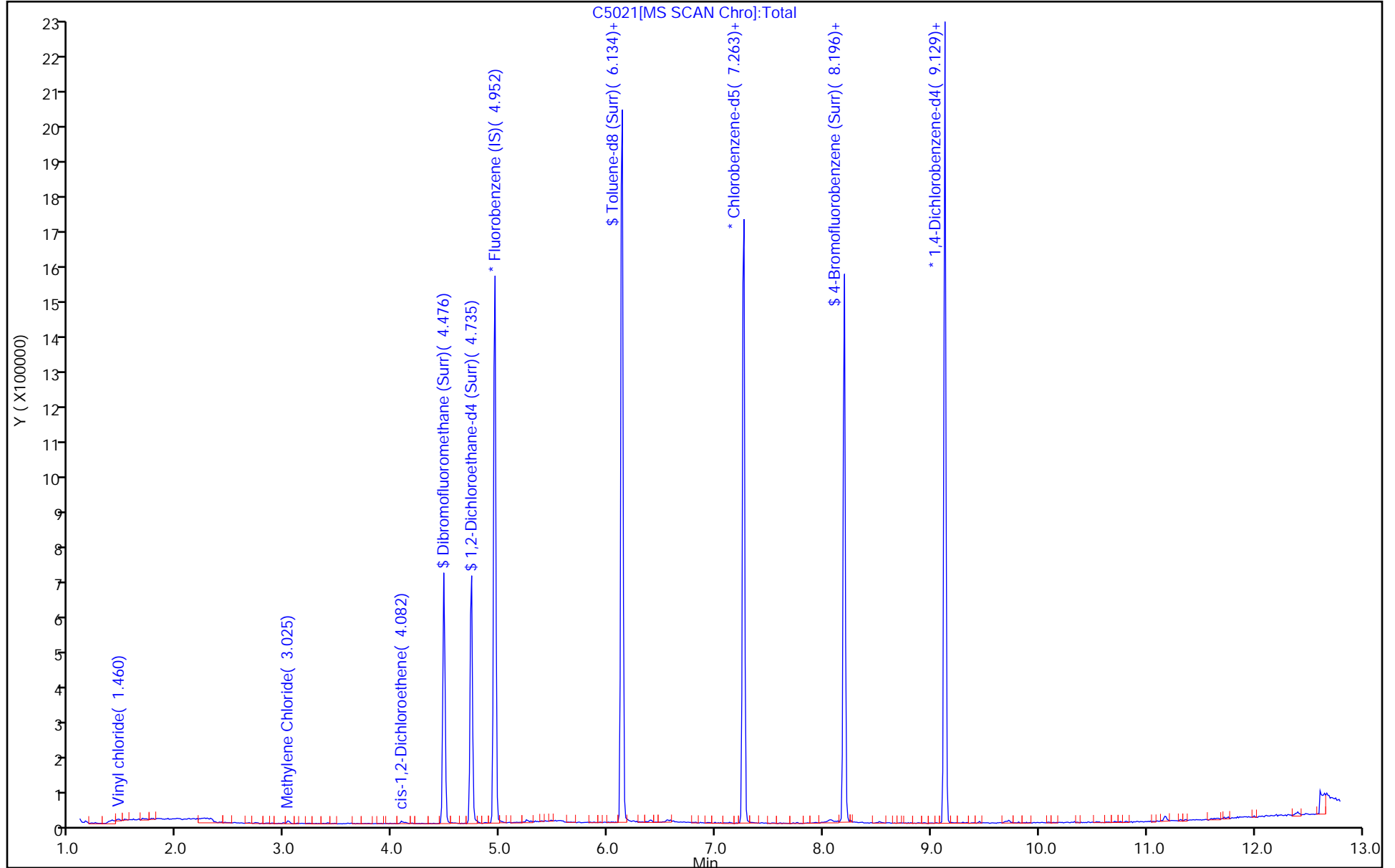
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5021.D

Injection Date: 02-Mar-2019 06:35:30

Instrument ID: HP5973C

Lims ID: 480-149618-A-10

Lab Sample ID: 480-149618-10

Client ID: TRIP BLANK

Operator ID: NC

ALS Bottle#: 22 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

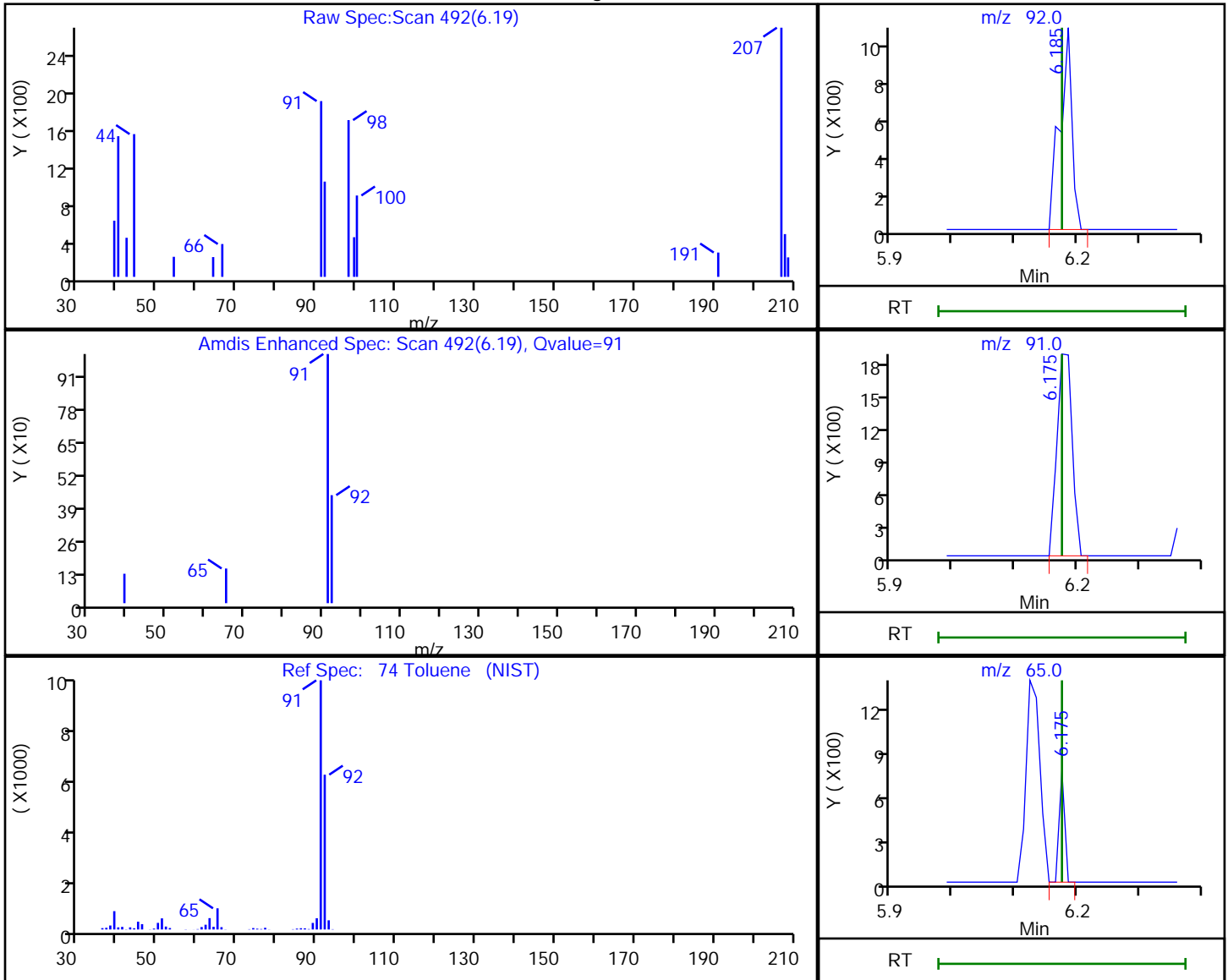
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
6.19	92.00	1373	0.043488
6.18	91.00	3191	
6.18	65.00	463	

Reviewer: izquierdo, 02-Mar-2019 13:40:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1 Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30 Calibration End Date: 01/09/2019 17:38 Calibration ID: 35737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-454372/4	C3451.D
Level 2	IC 480-454372/5	C3452.D
Level 3	IC 480-454372/6	C3453.D
Level 4	IC 480-454372/7	C3454.D
Level 5	IC 480-454372/8	C3455.D
Level 6	ICIS 480-454372/9	C3456.D
Level 7	IC 480-454372/10	C3457.D
Level 8	IC 480-454372/11	C3458.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	2.0007 1.4335	1.5767 1.8441	1.6343 1.7990	1.6104	1.5633	Ave		1.6828			0.1000	10.9	20.0				
Chloromethane	++++ 1.9011	2.2532 2.1560	2.6935 2.0347	1.9479	1.9183	Ave		2.1293			0.1000	13.2	20.0				
Vinyl chloride	++++ 1.5851	1.7234 1.8432	2.0010 1.7668	1.6186	1.5973	Ave		1.7336			0.1000	8.8	20.0				
Butadiene	2.2055 1.4234	1.8972 1.7171	1.8063 1.6617	1.4937	1.5264	Ave		1.7164				14.8	20.0				
Bromomethane	++++ 1.0789	1.3916 1.1450	1.4876 1.1160	1.0640	1.1105	Ave		1.1991			0.1000	14.1	20.0				
Chloroethane	++++ 0.9690	1.1761 1.0876	1.4111 1.0413	0.9554	1.0198	Ave		1.0943			0.1000	14.5	20.0				
Dichlorofluoromethane	3.5629 2.4292	2.8555 2.6426	3.2709 2.4911	2.4325	2.4805	Ave		2.7706				15.5	20.0				
Trichlorofluoromethane	2.6857 2.0333	2.1285 2.5095	2.5119 2.4004	2.1326	2.0907	Ave		2.3116			0.1000	10.6	20.0				
Ethyl ether	1.6765 1.3205	1.5445 1.3876	1.5713 1.3090	1.3264	1.2309	Ave		1.4208				11.0	20.0				
Acrolein	0.4194 0.2988	0.2984 0.3054	0.4032 0.2846	0.2770	0.2847	Ave		0.3214				17.5	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	1.4644 1.0138	0.8756 1.2422	1.2973 1.3399	1.2010	1.0383	Ave		1.1841			0.1000	16.4	20.0				
1,1-Dichloroethene	1.5830 1.1224	1.1772 1.3022	1.4647 1.3350	1.1836	1.0857	Ave		1.2817			0.1000	13.6	20.0				
Acetone	++++ 0.6259	0.7091 0.6323	0.8217 0.5946	0.6022	0.6011	Ave		0.6553			0.1000	12.7	20.0				
Iodomethane	2.9141 2.3389	2.5266 2.5236	3.1061 2.4858	2.2440	2.2545	Ave		2.5492				12.2	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1 Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30 Calibration End Date: 01/09/2019 17:38 Calibration ID: 35737

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	5.3948 3.5916	4.4856 4.0957	5.0105 4.1739	3.7822	3.4710	Ave		4.2506			0.1000	16.0	20.0				
Allyl chloride	3.1761 2.4780	2.9241 2.7553	3.1564 2.6886	2.4262	2.3558	Ave		2.7451				11.6	20.0				
Methyl acetate	2.0666 1.6539	1.7827 1.6911	1.9920 1.5782	1.5680	1.4952	Ave		1.7285			0.1000	11.9	20.0				
Methylene Chloride	++++ 1.4627	1.9227 1.6193	2.1095 1.5076	1.4506	1.4929	Ave		1.6522			0.1000	15.7	20.0				
2-Methyl-2-propanol	0.2598 0.2315	0.2087 0.2457	0.2755 0.2343	0.2217	0.2253	Ave		0.2378				9.1	20.0				
Methyl tert-butyl ether	4.6371 4.2496	4.4182 4.5483	3.7252 4.2388	3.8913	4.2343	Ave		4.4928			0.1000	12.2	20.0				
trans-1,2-Dichloroethene	++++ 1.3748	1.6823 1.5990	1.9078 1.5334	1.4710	1.4023	Ave		1.5672			0.1000	11.8	20.0				
Acrylonitrile	0.8117 0.7196	0.7222 0.7463	0.8756 0.6889	0.6876	0.7012	Ave		0.7441				8.9	20.0				
Hexane	2.1601 1.5689	1.6191 1.8064	1.8051 1.9214	1.8784	1.5525	Ave		1.7890				11.5	20.0				
1,1-Dichloroethane	3.0039 2.5539	3.1351 2.8274	3.3587 2.7091	2.5570	2.4776	Ave		2.8278			0.2000	11.1	20.0				
Vinyl acetate	3.4702 3.1850	2.8243 3.3876	2.9801 3.2255	2.9742	2.8122	Ave		3.1074				8.0	20.0				
2,2-Dichloropropane	1.5533 1.2656	1.7110 1.4451	1.9555 1.3948	1.2930	1.2926	Ave		1.4889				16.2	20.0				
cis-1,2-Dichloroethene	2.0053 1.6386	2.1363 1.8484	2.1925 1.7741	1.7235	1.6545	Ave		1.8717			0.1000	11.5	20.0				
2-Butanone (MEK)	1.0340 0.9070	0.8306 0.9164	0.8595 0.8703	0.8762	0.7865	Ave		0.8851			0.1000	8.2	20.0				
Chlorobromomethane	1.0411 0.8933	1.0240 0.9670	1.1063 0.9122	0.8201	0.8672	Ave		0.9539				10.2	20.0				
Tetrahydrofuran	0.8428 0.6278	0.7543 0.6275	0.7019 0.5830	0.5881	0.5668	Ave		0.6615				14.7	20.0				
Chloroform	3.4746 2.5472	3.0765 2.8130	3.2015 2.6874	2.4778	2.4933	Ave		2.8464			0.2000	12.9	20.0				
1,1,1-Trichloroethane	2.4675 1.9220	2.3795 2.2202	2.6437 2.2776	2.0183	1.8180	Ave		2.2184			0.1000	12.8	20.0				
Cyclohexane	++++ 2.0744	2.1934 2.5045	2.6809 2.6557	2.3357	2.0179	Ave		2.3518			0.1000	11.5	20.0				
Carbon tetrachloride	2.0164 1.5189	1.7453 1.8612	1.8744 1.9846	1.5520	1.3776	Ave		1.7413			0.1000	13.5	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30

Calibration End Date: 01/09/2019 17:38

Calibration ID: 35737

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	++++ 1.7189	1.9122 1.9700	2.0581 1.9695	1.8689	1.6432	Ave		1.8773			7.9		20.0				
Benzene	6.4218 5.5011	5.9274 5.9373	6.5490 5.7806	5.5927	5.1512	Ave		5.8576		0.5000	7.9		20.0				
Isobutyl alcohol	0.0967 0.0954	0.0838 0.0995	0.0983 0.0986	0.0815	0.0835	Ave		0.0922			8.4		20.0				
1,2-Dichloroethane	3.0501 2.3254	2.6043 2.4450	2.5297 2.2883	2.2185	2.2198	Ave		2.4601		0.1000	11.3		20.0				
n-Heptane	++++ 1.5110	1.7680 1.7258	1.8561 1.8099	1.7797	1.3827	Ave		1.6905			10.4		20.0				
Trichloroethene	1.9514 1.4073	1.4390 1.5904	1.6435 1.5491	1.5258	1.3329	Ave		1.5549		0.2000	12.2		20.0				
Methylcyclohexane	2.3045 1.8588	1.6818 2.2123	2.2755 2.3521	2.1345	1.7876	Ave		2.0759		0.1000	12.6		20.0				
1,2-Dichloropropane	1.6884 1.4132	1.5821 1.5224	1.5705 1.4667	1.4192	1.3345	Ave		1.4996		0.1000	7.6		20.0				
1,4-Dioxane	0.0086 0.0100	0.0074 0.0098	0.0106 0.0100	0.0101	0.0105	Ave		0.0096			11.2		20.0				
Dibromomethane	1.0733 0.9872	0.9896 1.0962	1.1016 1.0245	0.9217	0.9031	Ave		1.0121		0.1000	7.5		20.0				
Bromodichloromethane	1.5413 1.7478	1.6648 1.9920	1.7429 1.9717	1.5684	1.5382	Ave		1.7209		0.2000	10.5		20.0				
2-Chloroethyl vinyl ether	1.1518 0.9473	0.7120 0.9867	0.6923 0.9456	0.9119	0.7851	Ave		0.8916			17.3		20.0				
cis-1,3-Dichloropropene	2.2199 2.0897	1.5215 2.3278	1.6082 2.2847	1.8657	1.7614	Ave		1.9599		0.2000	16.0		20.0				
4-Methyl-2-pentanone (MIBK)	0.9996 0.9639	0.8807 0.9633	1.0449 0.9271	0.8565	0.8904	Ave		0.9408		0.1000	6.8		20.0				
Toluene	2.2148 1.6754	1.6823 1.7746	1.8589 1.8162	1.6416	1.5643	Ave		1.7785		0.4000	11.3		20.0				
trans-1,3-Dichloropropene	0.9491 0.9614	0.6411 1.0387	0.6902 1.0540	0.8128	0.7892	Ave		0.8671		0.1000	18.0		20.0				
Ethyl methacrylate	0.8996 0.8695	0.7708 0.9092	0.8013 0.8758	0.7640	0.7752	Ave		0.8332			7.4		20.0				
1,1,2-Trichloroethane	0.5384 0.5360	0.5320 0.5504	0.5326 0.5353	0.5328	0.4855	Ave		0.5304		0.1000	3.6		20.0				
Tetrachloroethene	0.8475 0.7245	0.8104 0.7860	0.7361 0.8220	0.7666	0.6479	Ave		0.7676		0.2000	8.3		20.0				
1,3-Dichloropropane	++++ 1.0920	0.9264 1.1005	0.9556 1.0939	1.0282	0.9628	Ave		1.0285			6.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1 Analy Batch No.: 454372
 SDG No.: _____
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/09/2019 14:30 Calibration End Date: 01/09/2019 17:38 Calibration ID: 35737

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.6363 0.6270	0.5597 0.6085	0.5990 0.5818	0.5682	0.5452	Ave		0.5907			0.1000	5.5	20.0				
Dibromochloromethane	0.4864 0.6315	0.4724 0.7077	0.5381 0.7653	0.5122	0.5250	Ave		0.5798			0.1000	18.8	20.0				
1,2-Dibromoethane	0.6840 0.6873	0.5493 0.7175	0.5440 0.7163	0.6310	0.5858	Ave		0.6394				11.3	20.0				
Chlorobenzene	2.3691 1.9994	2.1598 2.0994	2.1015 2.1210	1.9229	1.7883	Ave		2.0702			0.5000	8.3	20.0				
Ethylbenzene	3.8491 3.2204	3.5282 3.4022	3.6485 3.4286	3.0548	2.9283	Ave		3.3825			0.1000	9.0	20.0				
1,1,1,2-Tetrachloroethane	0.7265 0.6807	0.6017 0.7799	0.7038 0.7979	0.5558	0.6141	Ave		0.6825				12.7	20.0				
m,p-Xylene	1.5476 1.2974	1.4415 1.3721	1.4512 1.3881	1.2138	1.1773	Ave		1.3611			0.1000	9.2	20.0				
o-Xylene	1.5884 1.3352	1.5974 1.4263	1.6257 1.4210	1.2873	1.2355	Ave		1.4396			0.3000	10.4	20.0				
Styrene	2.2653 2.1305	1.9493 2.2603	2.2512 2.2524	1.9238	1.9039	Ave		2.1171			0.3000	7.8	20.0				
Bromoform	0.3211 0.3513	0.2872 0.4112	0.3152 0.4607	0.2744	0.2765	Ave		0.3372			0.1000	20.0	20.0				
Isopropylbenzene	3.9648 3.2782	3.2764 3.6033	3.2423 3.6830	3.2668	3.0453	Ave		3.4200			0.1000	8.8	20.0				
Bromobenzene	1.0001 0.8558	0.7552 0.9279	0.8365 0.9189	0.8304	0.7979	Ave		0.8653				9.1	20.0				
1,1,2,2-Tetrachloroethane	0.8989 0.8926	0.8016 0.9433	0.8218 0.9231	0.7622	0.7809	Ave		0.8530			0.3000	8.1	20.0				
N-Propylbenzene	4.1919 3.6345	3.6296 3.9185	3.7066 4.0360	3.5857	3.3391	Ave		3.7552				7.3	20.0				
1,2,3-Trichloropropane	0.2830 0.2963	0.2724 0.3117	0.3136 0.3030	0.2718	0.2831	Ave		0.2919				5.7	20.0				
trans-1,4-Dichloro-2-butene	0.2895 0.2743	0.2416 0.2881	0.2113 0.2924	0.2369	0.2104	Ave		0.2556				13.6	20.0				
2-Chlorotoluene	1.0445 0.8102	0.9204 0.8947	0.8809 0.8826	0.8436	0.7732	Ave		0.8813				9.2	20.0				
1,3,5-Trimethylbenzene	2.9693 2.8081	2.7513 3.0308	2.8951 3.1278	2.6349	2.5704	Ave		2.8484				6.8	20.0				
4-Chlorotoluene	0.9445 0.8346	0.8640 0.9005	0.8838 0.8962	0.8531	0.7670	Ave		0.8680				6.1	20.0				
tert-Butylbenzene	0.7778 0.6205	0.5708 0.6817	0.5297 0.7210	0.6313	0.5293	Ave		0.6328				14.2	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1 Analy Batch No.: 454372
 SDG No.: _____
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/09/2019 14:30 Calibration End Date: 01/09/2019 17:38 Calibration ID: 35737

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	3.1484 2.9557	2.8861 3.2156	3.0022 3.2464	2.8425	2.7512	Ave		3.0060			6.0		20.0				
sec-Butylbenzene	3.8499 3.2774	3.0053 3.5576	3.1885 3.8024	3.3090	3.0002	Ave		3.3738			9.8		20.0				
4-Isopropyltoluene	3.3612 2.8652	2.8135 3.1529	2.8903 3.3201	2.7733	2.5705	Ave		2.9684			9.4		20.0				
1,3-Dichlorobenzene	2.0902 1.6500	1.8416 1.7953	1.8668 1.7559	1.6483	1.5639	Ave		1.7765		0.6000	9.3		20.0				
1,4-Dichlorobenzene	2.0481 1.7258	1.8397 1.8386	1.9167 1.7866	1.6326	1.6049	Ave		1.7991		0.5000	8.1		20.0				
n-Butylbenzene	2.7499 2.3845	2.4948 2.6209	2.6412 2.8024	2.4061	2.1897	Ave		2.5362			8.1		20.0				
1,2-Dichlorobenzene	1.8804 1.6863	1.7534 1.8146	1.9652 1.8074	1.6405	1.5799	Ave		1.7660		0.4000	7.2		20.0				
1,2-Dibromo-3-Chloropropane	0.1773 0.1544	0.1193 0.1749	0.1667 0.1905	0.1229	0.1431	Ave		0.1561		0.0500	16.7		20.0				
1,2,4-Trichlorobenzene	1.5066 1.1607	1.3334 1.2725	1.4436 1.3235	1.1024	1.1235	Ave		1.2833		0.2000	11.5		20.0				
Hexachlorobutadiene	0.5157 0.4166	0.6067 0.4658	0.4687 0.5106	0.4276	0.3928	Ave		0.4756			14.4		20.0				
Naphthalene	3.7098 3.5292	3.3617 3.8165	3.9911 3.8815	3.0831	3.3878	Ave		3.5951			8.6		20.0				
1,2,3-Trichlorobenzene	1.4116 1.1180	1.3315 1.1926	1.3278 1.2549	1.0708	1.0864	Ave		1.2242			10.4		20.0				
Dibromofluoromethane (Surr)	1.3399 1.4011	1.5241 1.4511	1.5106 1.4040	1.3742	1.4203	Ave		1.4282			4.5		20.0				
1,2-Dichloroethane-d4 (Surr)	0.8631 0.8734	0.9035 0.8655	0.8908 0.8236	0.8940	0.8994	Ave		0.8767			3.0		20.0				
Toluene-d8 (Surr)	2.6297 2.5810	2.6045 2.5569	2.5205 2.5404	2.5811	2.5394	Ave		2.5692			1.4		20.0				
4-Bromofluorobenzene (Surr)	0.7842 0.7981	0.7970 0.7726	0.8098 0.7783	0.7895	0.7763	Ave		0.7882			1.6		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1 Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30 Calibration End Date: 01/09/2019 17:38 Calibration ID: 35737

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-454372/4	C3451.D
Level 2	IC 480-454372/5	C3452.D
Level 3	IC 480-454372/6	C3453.D
Level 4	IC 480-454372/7	C3454.D
Level 5	IC 480-454372/8	C3455.D
Level 6	ICIS 480-454372/9	C3456.D
Level 7	IC 480-454372/10	C3457.D
Level 8	IC 480-454372/11	C3458.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6528 281313	11166 720512	20933 1477296	64184	119526	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	++++ 373074	15957 842367	34500 1670790	77635	146667	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 311059	12205 720135	25631 1450787	64508	122126	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7196 279328	13436 670893	23137 1364502	59532	116706	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 211724	9855 447345	19054 916389	42404	84906	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 190157	8329 424950	18074 855062	38079	77973	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11625 476713	20222 1032469	41896 2045580	96945	189650	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	8763 399019	15074 980463	32175 1971129	84993	159845	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5470 259127	10938 542141	20126 1074869	52862	94114	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	6842 293159	10567 596629	25822 1168690	55194	108842	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4778 198946	6201 485341	16617 1100232	47867	79386	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	5165 220250	8337 508758	18761 1096206	47172	83005	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 614134	25107 1235257	52622 2441307	119997	229773	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	9508 458987	17893 985988	39785 2041254	89436	172372	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	17602 704806	31766 1600211	64178 3427406	150738	265378	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30

Calibration End Date: 01/09/2019 17:38

Calibration ID: 35737

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	10363 486281	20708 1076508	40430 2207727	96697	180115	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	13486 649116	25249 1321439	51031 2591971	124982	228635	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Ave	++++ 287048	13616 632671	27020 1237948	57815	114141	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	8478 454305	14783 960159	35294 1923932	88367	172247	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	15130 833946	31289 1777029	73333 3480709	155086	323738	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 269784	11914 624753	24437 1259167	58628	107216	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	26483 1412200	51144 2915832	112151 5656675	274027	536080	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	7048 307872	11466 705775	23121 1577762	74862	118702	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	9801 501177	22202 1104685	43021 2224632	101907	189425	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	22645 1250047	40003 2647111	76342 5297248	237074	430020	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5068 248359	12117 564592	25048 1145360	51534	98830	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	6543 321558	15129 722194	28083 1456796	68688	126499	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	16869 889916	29410 1790180	55044 3573148	174609	300669	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	3397 175308	7252 377808	14170 749021	32684	66300	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	5500 246379	10683 490307	17981 957521	46879	86677	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	11337 499852	21787 1099071	41008 2206779	98754	190625	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	8051 377179	16851 867452	33863 1870263	80439	138996	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	++++ 407083	15533 978540	34339 2180783	93090	154280	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	6579 298075	12360 727164	24009 1629665	61855	105325	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	++++ 337325	13542 769710	26362 1617243	74483	125630	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	20953 1079521	41977 2319721	83885 4746798	222894	393845	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30

Calibration End Date: 01/09/2019 17:38

Calibration ID: 35737

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	7884 467786	14837 972227	31468 2023380	81205	159653	10.0 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	9952 456333	18443 955281	32403 1879058	88419	169716	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	++++ 296518	12521 674290	23775 1486245	70929	105716	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	6367 276176	10191 621378	21051 1272013	60809	101907	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	7519 364777	11910 864352	29146 1931471	85069	136676	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	5509 277319	11204 594821	20116 1204405	56561	102034	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	1033 76141	1886 154176	4793 319476	16173	30478	8.00 500	20.0 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	3502 193725	7008 428292	14110 841304	36735	69045	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	5029 342978	11790 778277	22325 1619109	62507	117606	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3758 185896	5042 385499	8867 776515	36343	60023	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	7243 410087	10775 909495	20599 1876074	74356	134674	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	30104 1830643	55832 3783491	118368 7368767	342737	645124	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	13341 636360	21330 1393974	42118 2887073	131381	226672	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5717 365169	8128 815933	15638 1675471	65045	114363	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5419 330262	9773 714211	18156 1392234	61147	112336	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3243 203590	6745 432302	12068 850939	42641	70357	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5105 275167	10275 617367	16679 1306586	61350	93886	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 414776	11746 864420	22557 1738858	82285	139519	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	19164 1190764	35483 2389973	67858 4624143	227357	395010	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2930 239859	5989 555864	12192 1216474	40994	76079	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4120 261048	6965 563557	12326 1138674	50499	84891	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30

Calibration End Date: 01/09/2019 17:38

Calibration ID: 35737

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14270 759430	27384 1649035	47615 3371449	153892	259134	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	23185 1223170	44733 2672417	82665 5450132	244478	424320	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4376 258536	7629 612589	15947 1268265	44478	88985	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	9322 492779	18276 1077749	32879 2206500	97140	170600	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	9568 507130	20253 1120319	36833 2258759	103024	179024	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	13645 809217	24715 1775423	51005 3580378	153961	275886	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	1934 133432	3641 322989	7141 732372	21958	40059	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	24309 1262003	44796 2778740	84439 5793059	255975	448067	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	6132 329454	10325 715553	21784 1445331	65065	117401	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5511 343606	10960 727409	21403 1451996	59726	114895	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	25701 1399154	49624 3021836	96533 6348234	280966	491306	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1735 114072	3724 240380	8168 476614	21297	41647	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1775 105597	3303 222174	5503 459910	18562	30954	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6404 311901	12584 689971	22941 1388259	66102	113768	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	18205 1081013	37616 2337242	75398 4919765	206460	378199	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	5791 321294	11813 694468	23016 1409623	66850	112854	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	4769 238888	7804 525680	13794 1134116	49468	77880	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19303 1137846	39459 2479775	78188 5106279	222733	404805	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	23604 1261691	41089 2743479	83038 5980885	259282	441433	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	20608 1103018	38467 2431384	75273 5222277	217311	378206	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	12815 635182	25178 1384469	48617 2761953	129159	230110	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1 Analy Batch No.: 454372

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/09/2019 14:30 Calibration End Date: 01/09/2019 17:38 Calibration ID: 35737

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	12557 664374	25152 1417841	49918 2810156	127929	236145	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16860 917969	34109 2021122	68784 4407969	188533	322186	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	11529 649150	23973 1399364	51179 2842876	128542	232461	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1087 59455	1631 134874	4341 299710	9628	21056	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	9237 446821	18230 981336	37596 2081808	86379	165308	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3162 160393	8295 359185	12206 803121	33506	57791	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	22745 1358632	45962 2943112	103942 6105353	241580	498468	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	8655 430399	18204 919706	34580 1973830	83903	159846	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	273244 274943	269838 283485	241859 288232	273848	271476	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	176006 171397	159963 169070	142625 169069	178146	171913	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	990019 980316	825561 1004203	713854 1009540	1032822	919915	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	295245 303140	252635 303431	229352 309308	315931	281211	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3451.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Jan-2019 14:30:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.4
 Misc. Info.: 480-0077863-004
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:07:09 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln

Date: 09-Jan-2019 18:02:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	203925	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	89	376469	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	96	383196	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	93	273244	25.0	23.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	97	176006	25.0	24.6	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	95	990019	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	91	295245	25.0	24.9	
10 Dichlorodifluoromethane	85	1.190	1.180	0.010	95	6528	0.4000	0.4756	
12 Chloromethane	50	1.346	1.346	0.000	94	9553	0.4000	0.5500	
13 Vinyl chloride	62	1.450	1.439	0.011	69	7998	0.4000	0.5656	
151 Butadiene	54	1.450	1.450	0.000	95	7196	0.4000	0.5140	
14 Bromomethane	94	1.740	1.729	0.011	82	9042	0.4000	0.9245	
15 Chloroethane	64	1.823	1.823	0.000	75	5144	0.4000	0.5763	
16 Dichlorofluoromethane	67	2.051	2.040	0.011	94	11625	0.4000	0.5144	M
17 Trichlorofluoromethane	101	2.051	2.051	0.000	74	8763	0.4000	0.4647	
18 Ethyl ether	59	2.341	2.331	0.010	86	5470	0.4000	0.4720	
20 Acrolein	56	2.517	2.507	0.010	23	6842	2.00	2.61	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	87	4778	0.4000	0.4947	
22 1,1-Dichloroethene	96	2.538	2.538	0.000	96	5165	0.4000	0.4940	
23 Acetone	43	2.672	2.662	0.010	91	15346	2.00	2.87	Ma
25 Iodomethane	142	2.703	2.704	-0.001	93	9508	0.4000	0.4573	
26 Carbon disulfide	76	2.735	2.735	0.000	95	17602	0.4000	0.5077	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	81	10363	0.4000	0.4628	M
27 Methyl acetate	43	2.942	2.942	0.000	99	13486	0.8000	0.9565	Ma
30 Methylene Chloride	84	3.035	3.035	0.000	96	8702	0.4000	0.6457	
31 2-Methyl-2-propanol	59	3.201	3.191	0.010	91	8478	4.00	4.37	M
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	94	15130	0.4000	0.4128	M
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	95	7467	0.4000	0.5841	
33 Acrylonitrile	53	3.294	3.294	0.000	99	26483	4.00	4.36	
35 Hexane	57	3.398	3.408	-0.010	85	7048	0.4000	0.4830	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	94	9801	0.4000	0.4249	
37 Vinyl acetate	43	3.657	3.657	0.000	98	22645	0.8000	0.8934	
44 2,2-Dichloropropane	77	4.061	4.051	0.010	79	5068	0.4000	0.4173	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	83	6543	0.4000	0.4286	
43 2-Butanone (MEK)	43	4.123	4.113	0.010	99	16869	2.00	2.34	
48 Chlorobromomethane	128	4.289	4.289	0.000	94	3397	0.4000	0.4366	
49 Tetrahydrofuran	42	4.310	4.299	0.011	91	5500	0.8000	1.02	
50 Chloroform	83	4.351	4.351	0.000	96	11337	0.4000	0.4883	
51 1,1,1-Trichloroethane	97	4.444	4.445	-0.001	94	8051	0.4000	0.4449	
52 Cyclohexane	56	4.444	4.445	-0.001	94	10603	0.4000	0.5527	
55 Carbon tetrachloride	117	4.548	4.548	0.000	71	6579	0.4000	0.4632	
54 1,1-Dichloropropene	75	4.569	4.559	0.010	88	8538	0.4000	0.5576	
57 Benzene	78	4.735	4.735	0.000	44	20953	0.4000	0.4385	
53 Isobutyl alcohol	43	4.745	4.745	0.000	29	7884	10.0	10.5	Ma
58 1,2-Dichloroethane	62	4.786	4.787	-0.001	93	9952	0.4000	0.4959	
59 n-Heptane	43	4.859	4.859	0.000	90	9245	0.4000	0.6705	a
62 Trichloroethene	95	5.222	5.222	0.000	92	6367	0.4000	0.5020	
64 Methylcyclohexane	83	5.315	5.315	0.000	89	7519	0.4000	0.4440	
65 1,2-Dichloropropane	63	5.419	5.408	0.011	88	5509	0.4000	0.4504	
66 1,4-Dioxane	88	5.522	5.522	0.000	46	1033	8.00	7.12	Ma
67 Dibromomethane	93	5.522	5.522	0.000	92	3502	0.4000	0.4242	
68 Dichlorobromomethane	83	5.636	5.636	0.000	88	5029	0.4000	0.3583	
69 2-Chloroethyl vinyl ether	63	5.843	5.844	-0.001	92	3758	0.4000	0.5167	
72 cis-1,3-Dichloropropene	75	5.957	5.958	-0.001	88	7243	0.4000	0.4531	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	30104	2.00	2.12	
74 Toluene	92	6.185	6.175	0.010	98	13341	0.4000	0.4981	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	94	5717	0.4000	0.4378	
75 Ethyl methacrylate	69	6.413	6.414	-0.001	85	5419	0.4000	0.4319	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	84	3243	0.4000	0.4060	
81 Tetrachloroethene	166	6.590	6.590	0.000	81	5105	0.4000	0.4416	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	92	8467	0.4000	0.5467	
80 2-Hexanone	43	6.704	6.704	0.000	98	19164	2.00	2.15	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	2930	0.4000	0.3356	
84 Ethylene Dibromide	107	6.932	6.932	0.000	95	4120	0.4000	0.4279	
87 Chlorobenzene	112	7.284	7.284	0.000	96	14270	0.4000	0.4577	
88 Ethylbenzene	91	7.336	7.336	0.000	97	23185	0.4000	0.4552	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	86	4376	0.4000	0.4258	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	95	9322	0.4000	0.4548	
91 o-Xylene	106	7.750	7.750	0.000	98	9568	0.4000	0.4414	
92 Styrene	104	7.771	7.771	0.000	95	13645	0.4000	0.4280	
95 Bromoform	173	7.978	7.968	0.010	33	1934	0.4000	0.3809	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	24309	0.4000	0.4637	
101 Bromobenzene	156	8.320	8.320	0.000	89	6132	0.4000	0.4623	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	46	5511	0.4000	0.4215	
99 N-Propylbenzene	91	8.362	8.362	0.000	98	25701	0.4000	0.4465	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.383	-0.001	69	1775	0.4000	0.4531	
100 1,2,3-Trichloropropane	110	8.382	8.383	-0.001	89	1735	0.4000	0.3878	
103 2-Chlorotoluene	126	8.455	8.455	0.000	96	6404	0.4000	0.4741	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	93	18205	0.4000	0.4170	
105 4-Chlorotoluene	126	8.548	8.548	0.000	98	5791	0.4000	0.4353	M
106 tert-Butylbenzene	134	8.766	8.766	0.000	91	4769	0.4000	0.4917	
107 1,2,4-Trimethylbenzene	105	8.818	8.818	0.000	95	19303	0.4000	0.4189	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	93	23604	0.4000	0.4564	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	20608	0.4000	0.4529	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	97	12815	0.4000	0.4706	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	88	12557	0.4000	0.4553	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	16860	0.4000	0.4337	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	92	11529	0.4000	0.4259	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	1	1087	0.4000	0.4542	a
119 1,2,4-Trichlorobenzene	180	10.776	10.787	-0.011	94	9237	0.4000	0.4696	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	88	3162	0.4000	0.4338	
121 Naphthalene	128	10.994	10.994	0.000	96	22745	0.4000	0.4128	
122 1,2,3-Trichlorobenzene	180	11.180	11.181	-0.001	94	8655	0.4000	0.4612	a
S 124 Xylenes, Total	1				0			0.8962	
S 125 1,2-Dichloroethene, Total	1				0			1.01	
S 126 1,3-Dichloropropene, Total	1				0			0.8909	
S 123 Total BTEX	1				0			2.29	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00144	Amount Added: 0.40	Units: uL	
GAS CORP mix_00321	Amount Added: 0.40	Units: uL	
C_8260_IS_00127	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00143	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3451.D

Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

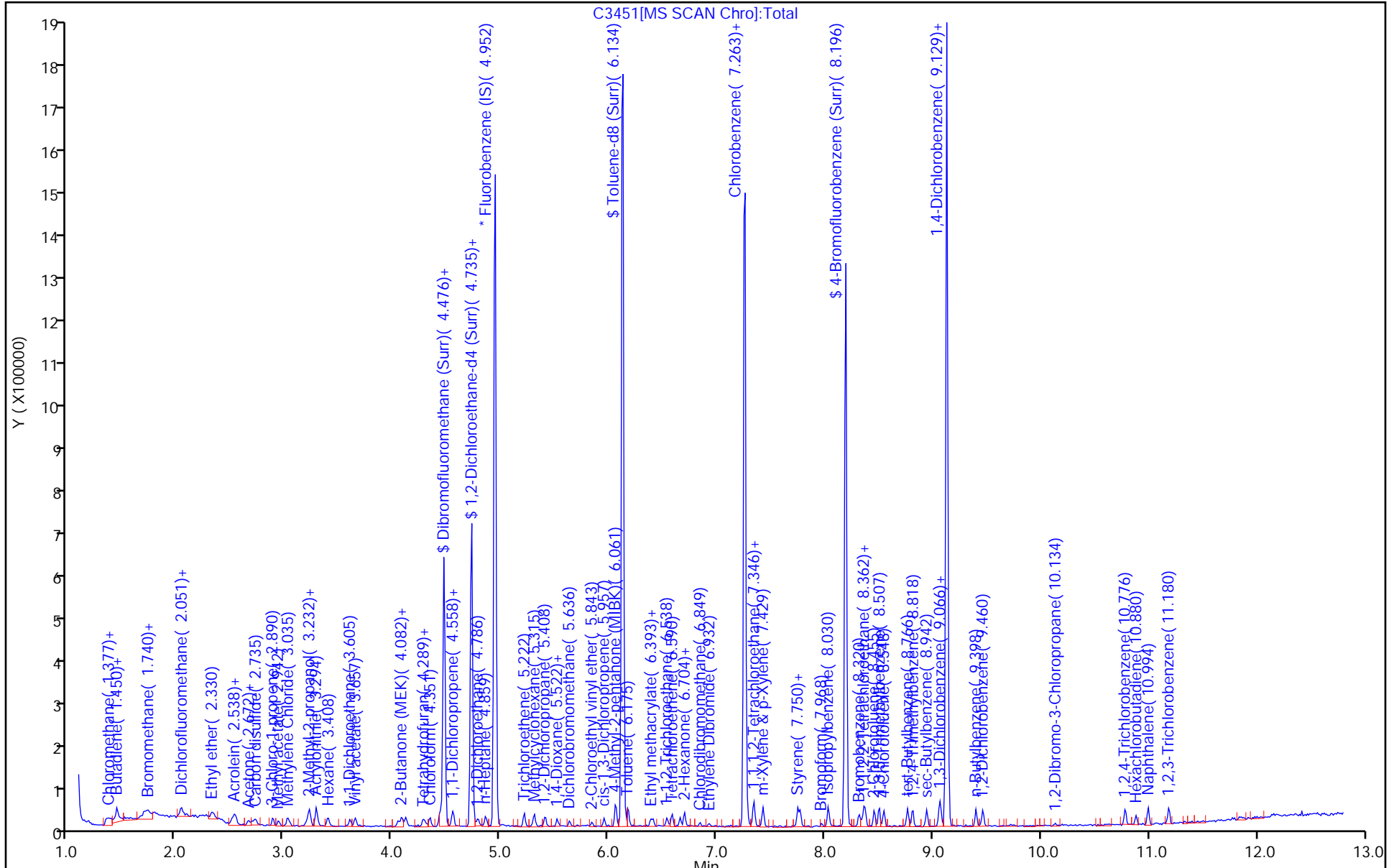
Limit Group: MV - 8260C ICAL

Operator ID: KN

Worklist Smp#: 4

ALS Bottle#: 4

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

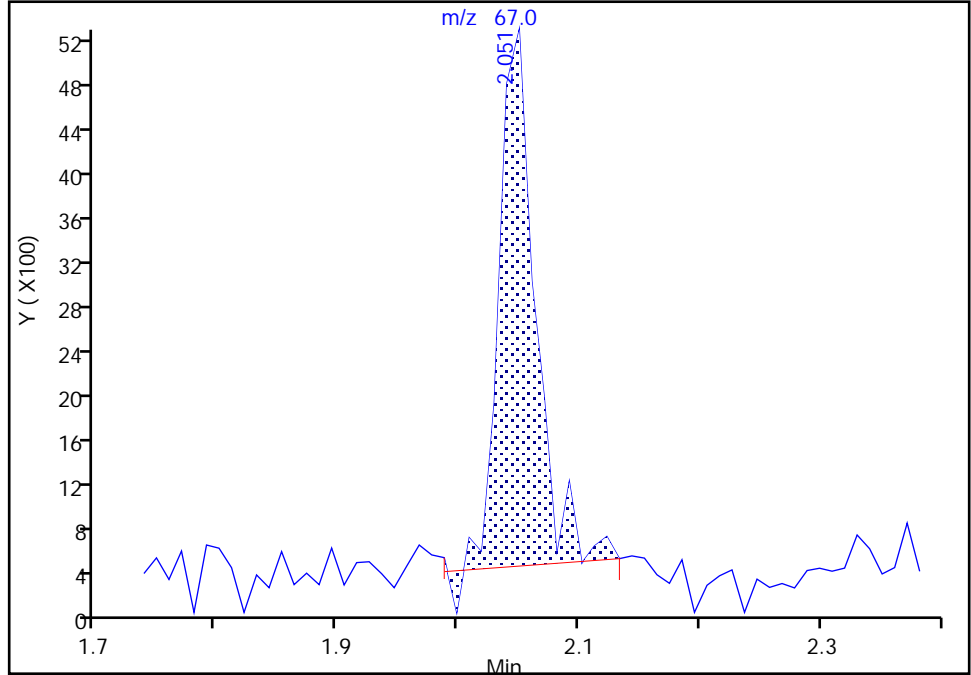
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Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

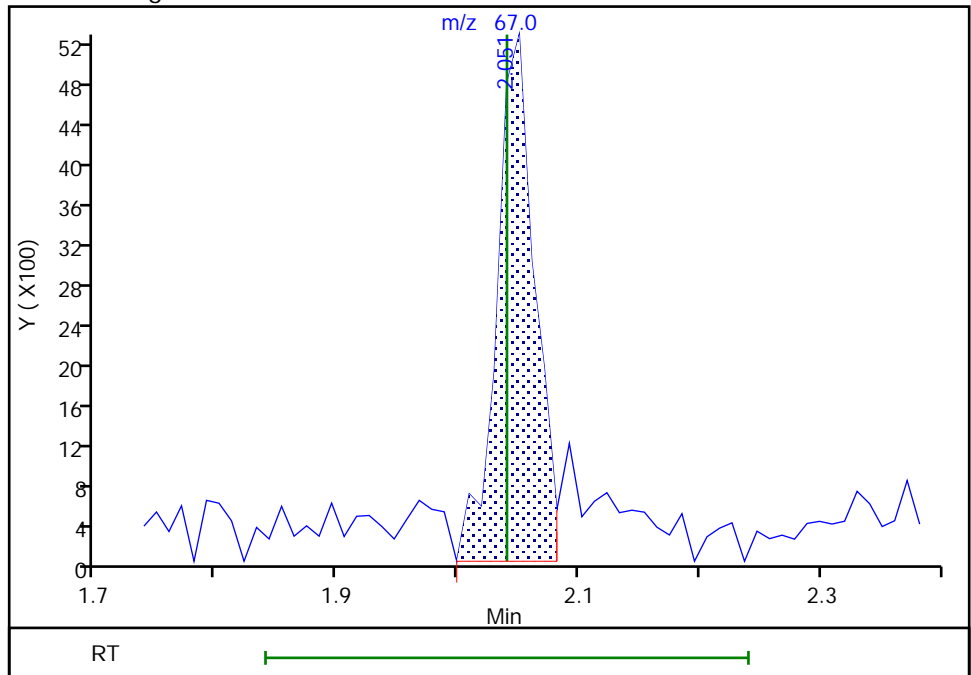
RT: 2.05
Area: 10055
Amount: 0.449584
Amount Units: ug/L

Processing Integration Results



RT: 2.05
Area: 11625
Amount: 0.514378
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 17:53:14
Audit Action: Manually Integrated

TestAmerica Buffalo

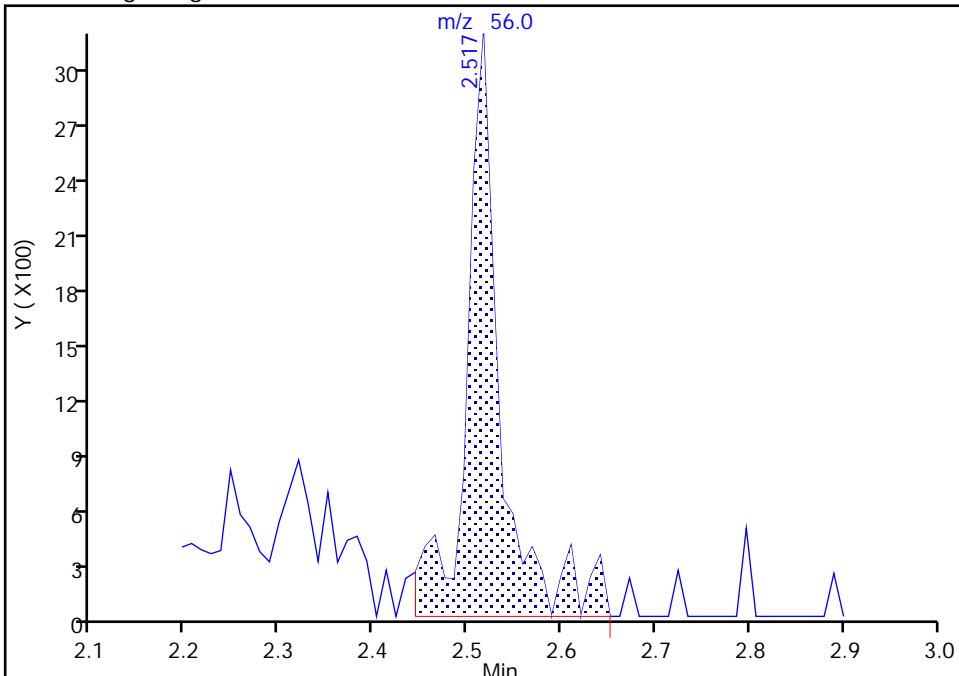
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

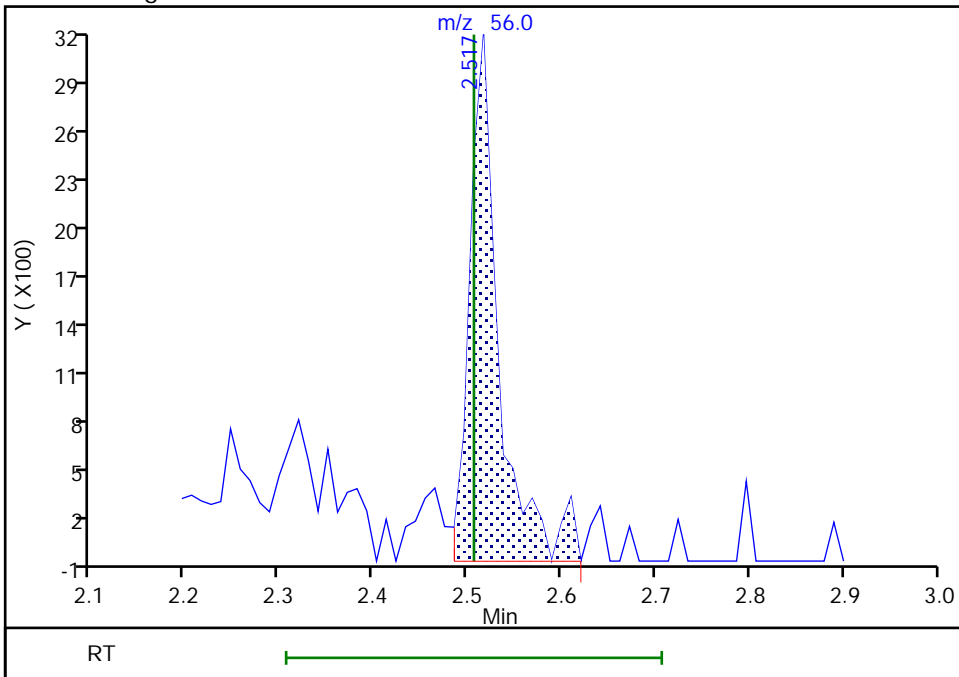
RT: 2.52
Area: 7950
Amount: 2.241031
Amount Units: ug/L

Processing Integration Results



RT: 2.52
Area: 6842
Amount: 2.609456
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 17:53:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

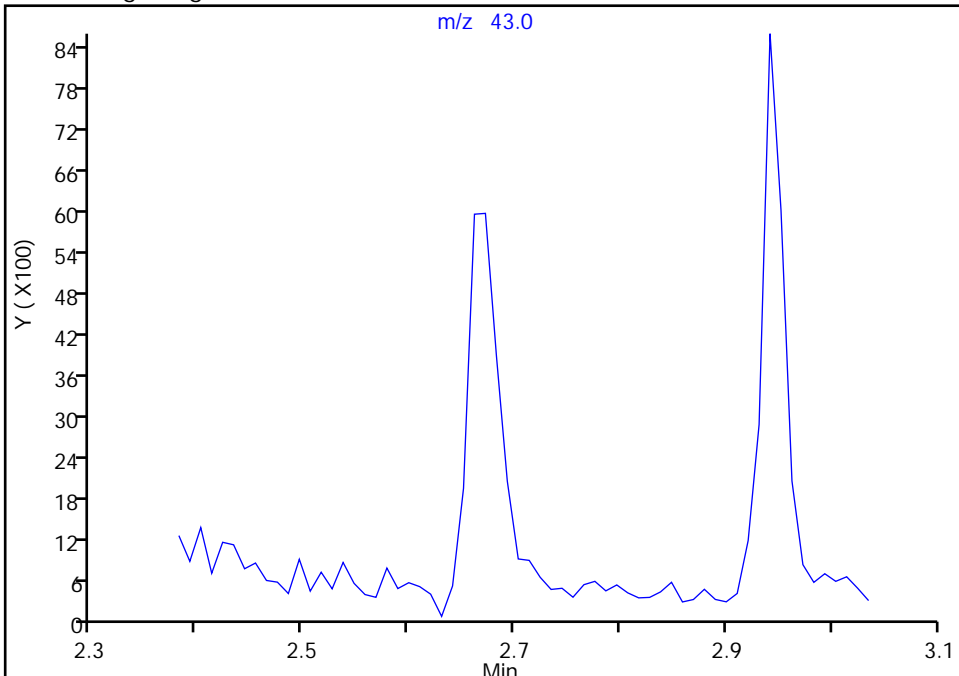
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Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

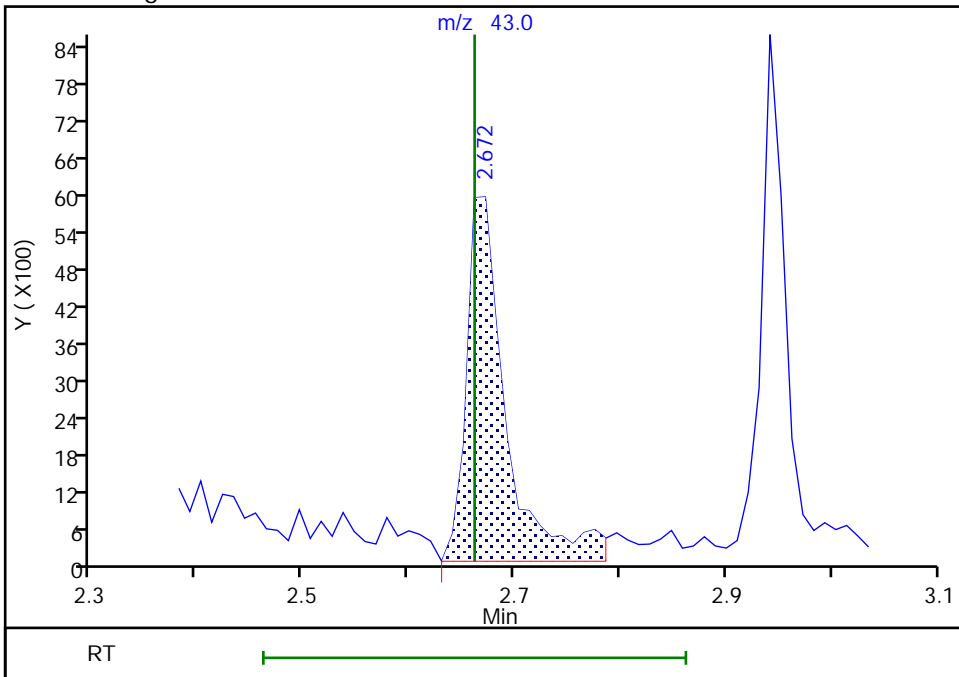
Not Detected
Expected RT: 2.66

Processing Integration Results



Manual Integration Results

RT: 2.67
Area: 15346
Amount: 2.871155
Amount Units: ug/L



Reviewer: carrolln, 09-Jan-2019 17:55:30
Audit Action: Manually Integrated

TestAmerica Buffalo

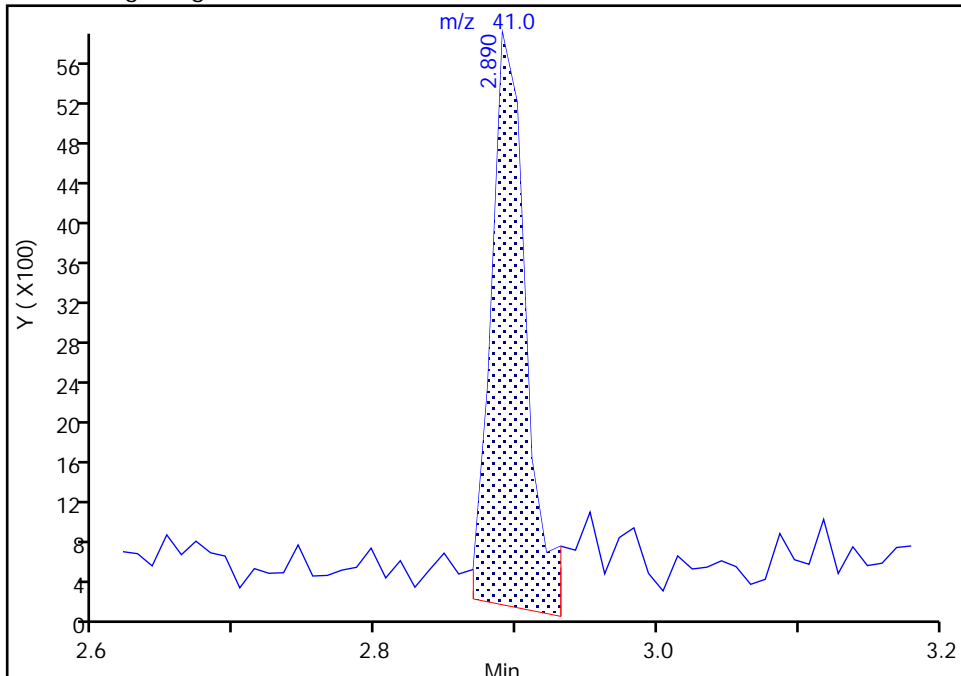
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Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

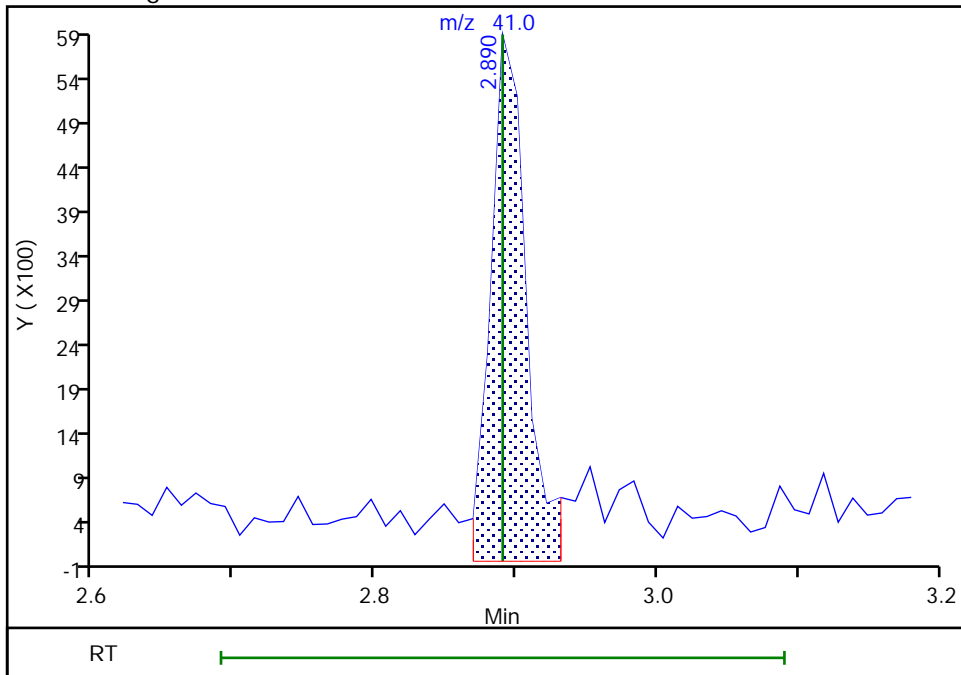
RT: 2.89
Area: 9972
Amount: 0.446821
Amount Units: ug/L

Processing Integration Results



RT: 2.89
Area: 10363
Amount: 0.462810
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 17:55:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 433 of 605

TestAmerica Buffalo

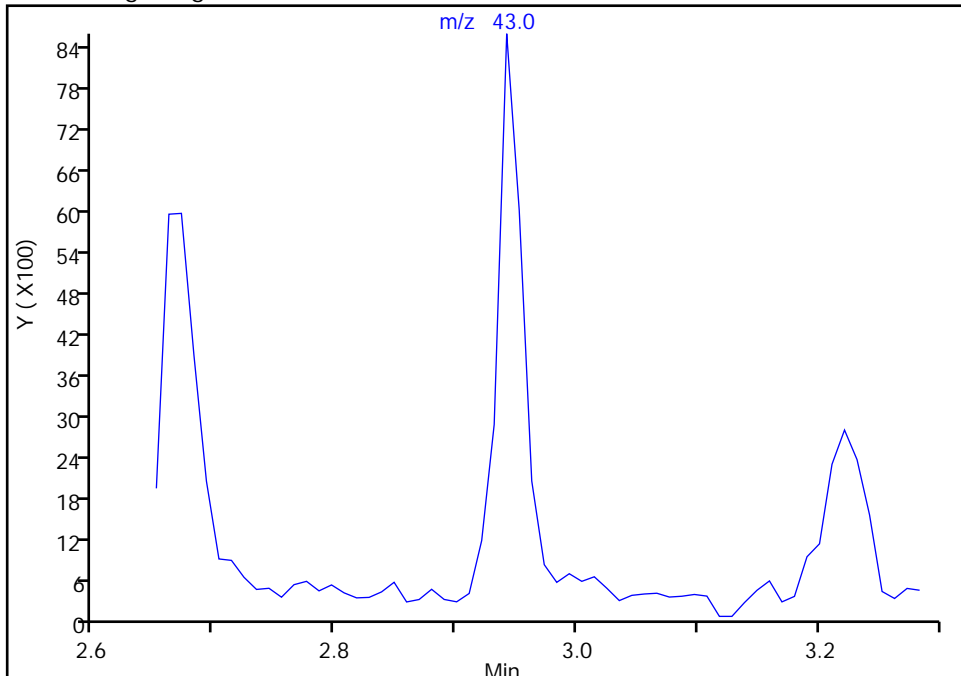
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Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

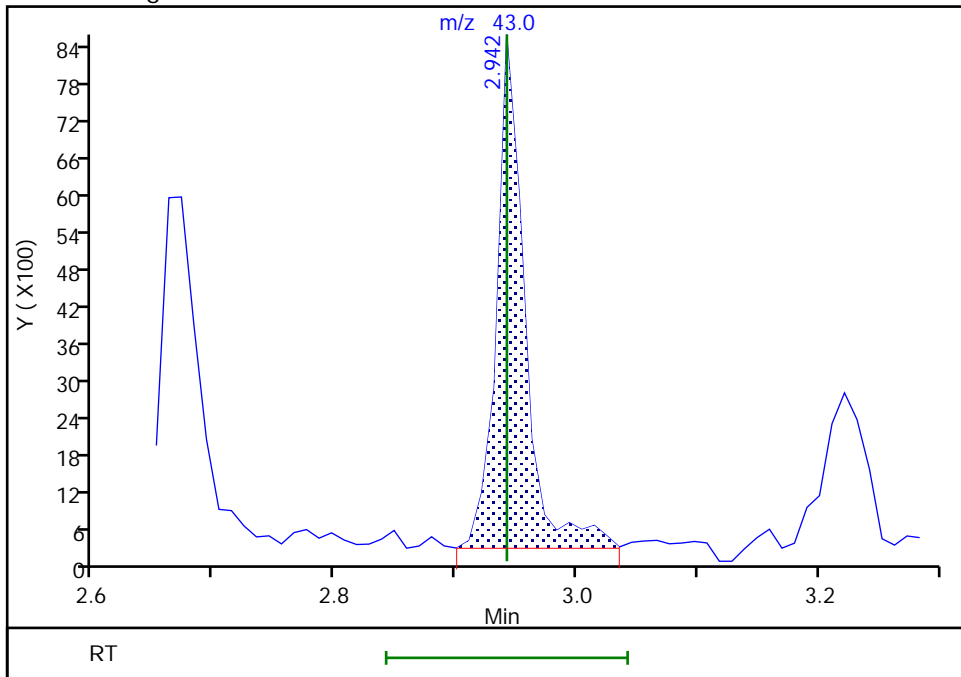
Signal: 1

Not Detected
Expected RT: 2.94

Processing Integration Results



Manual Integration Results



RT: 2.94
Area: 13486
Amount: 0.956516
Amount Units: ug/L

Reviewer: carrolln, 09-Jan-2019 18:04:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 434 of 605

TestAmerica Buffalo

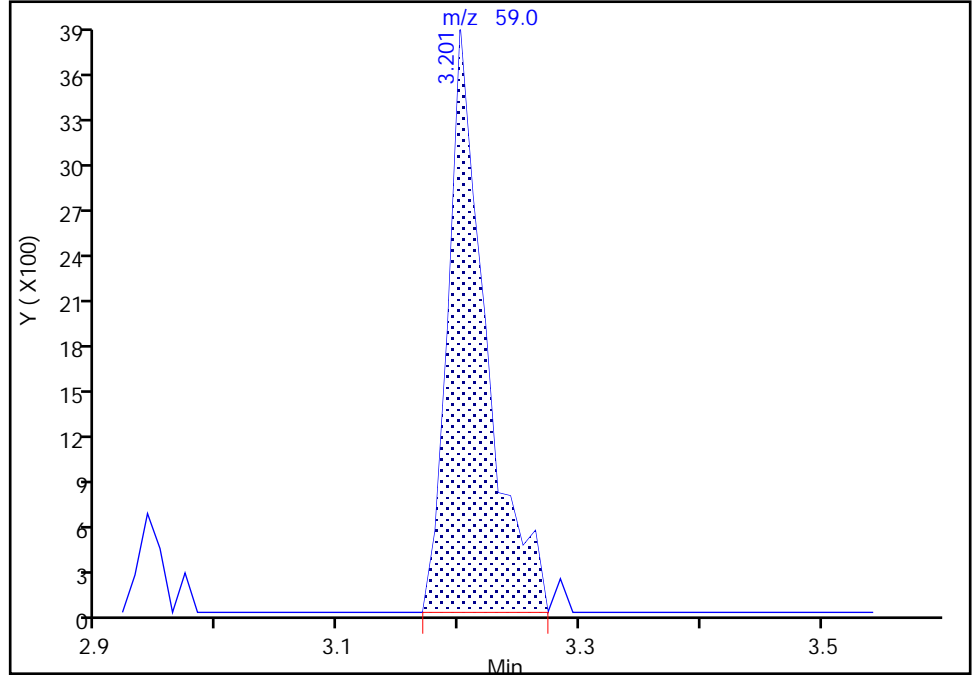
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Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

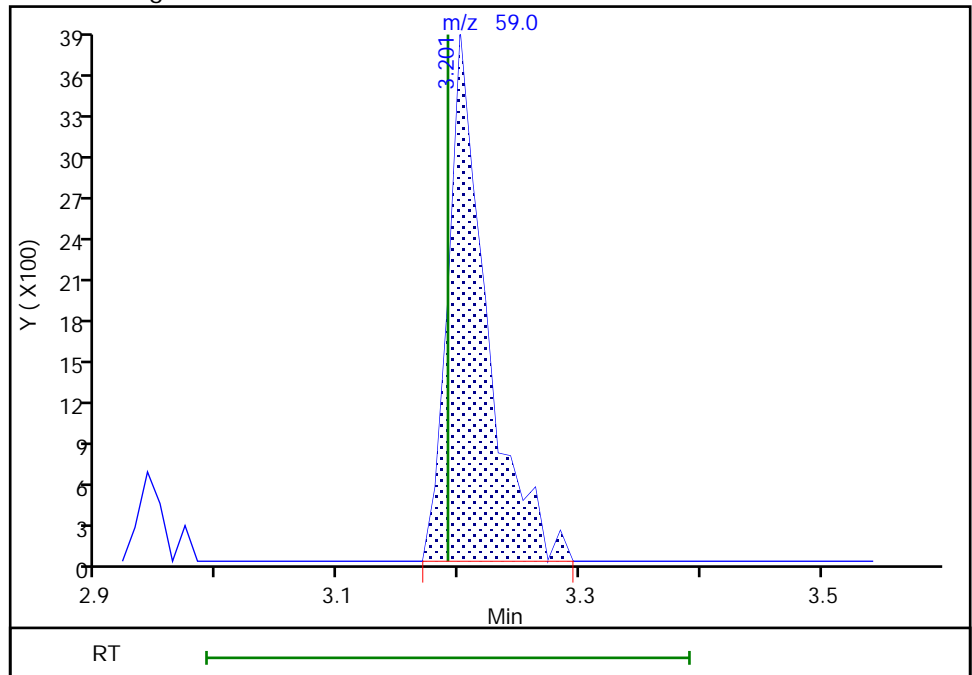
RT: 3.20
Area: 8340
Amount: 4.308480
Amount Units: ug/L

Processing Integration Results



RT: 3.20
Area: 8478
Amount: 4.370035
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:09:02
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

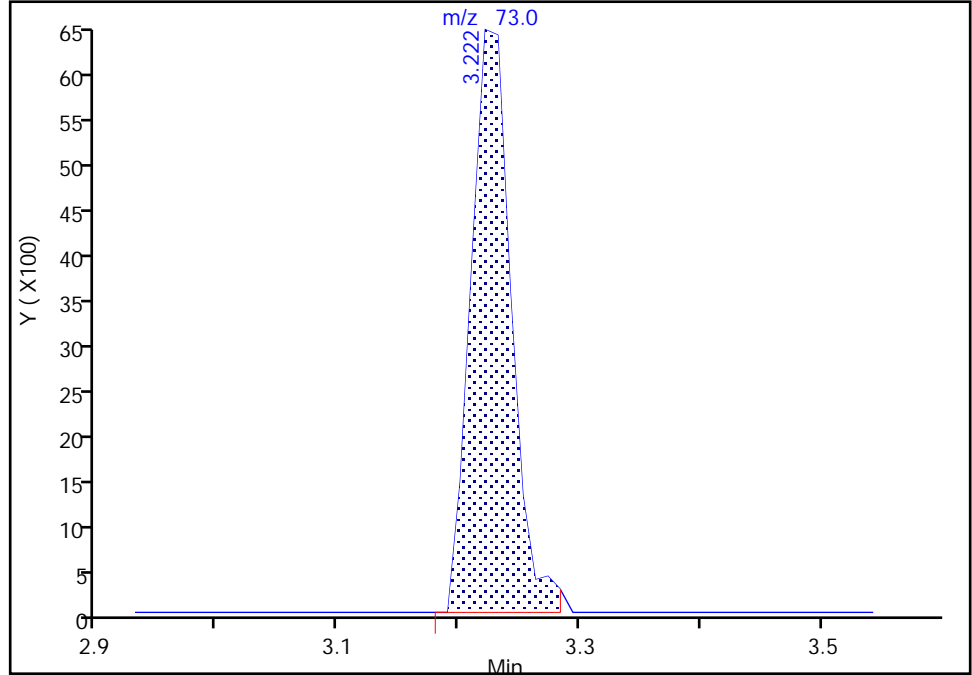
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3451.D
Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

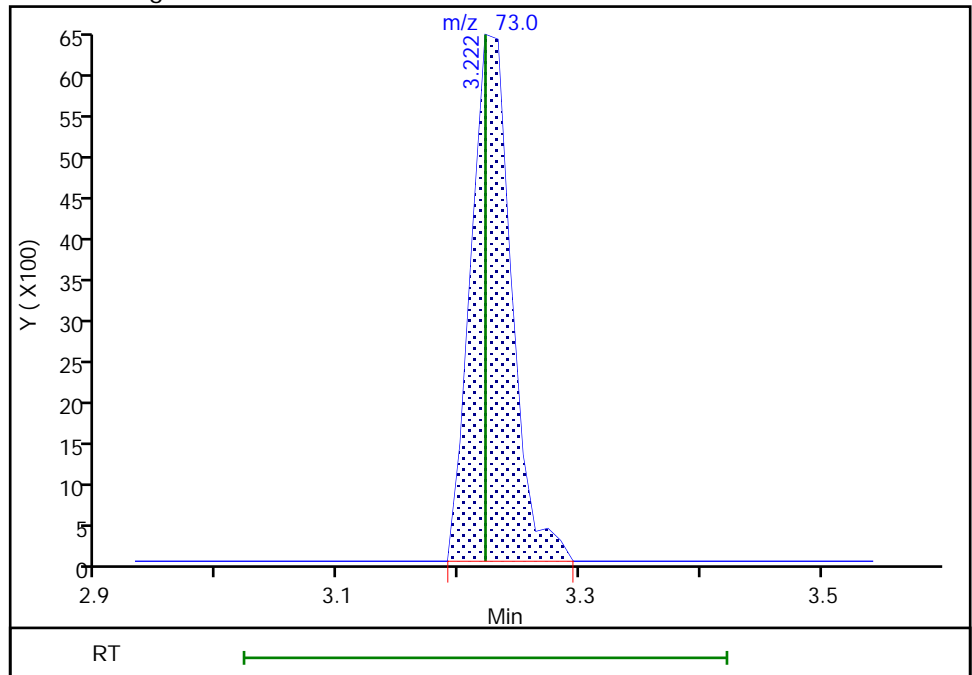
RT: 3.22
Area: 15130
Amount: 0.409537
Amount Units: ug/L

Processing Integration Results



RT: 3.22
Area: 15130
Amount: 0.412845
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 17:56:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

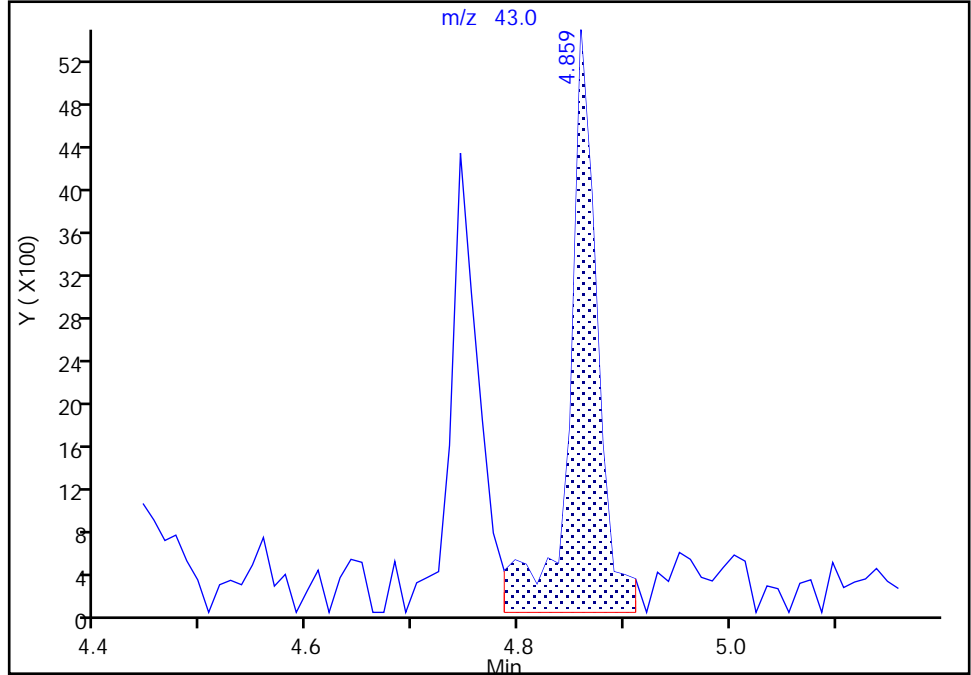
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

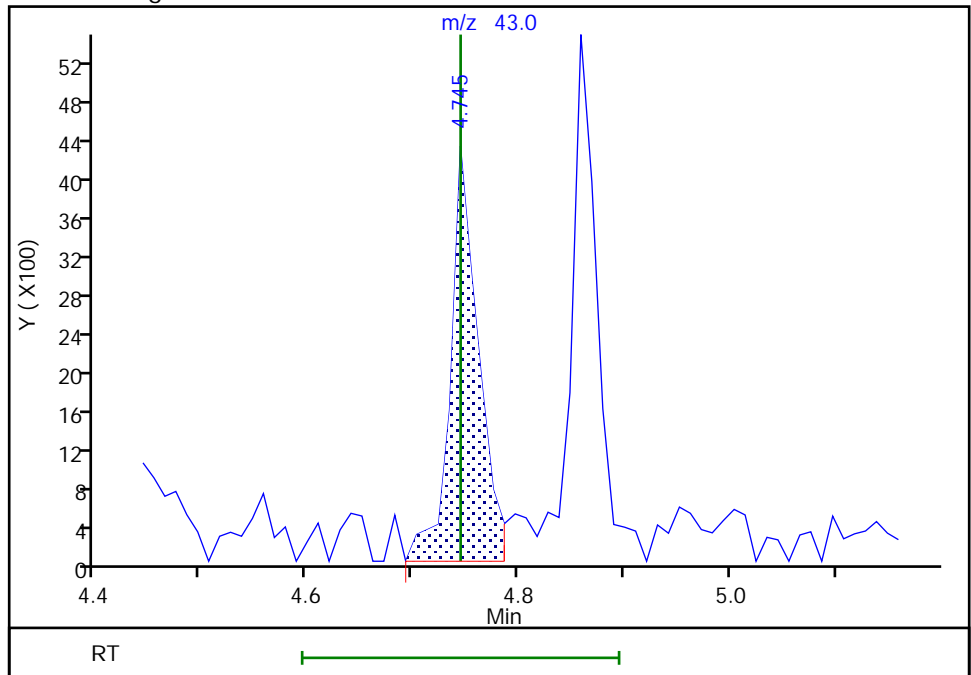
RT: 4.86
Area: 10065
Amount: 12.845635
Amount Units: ug/L

Processing Integration Results



RT: 4.74
Area: 7884
Amount: 10.488658
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:49:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

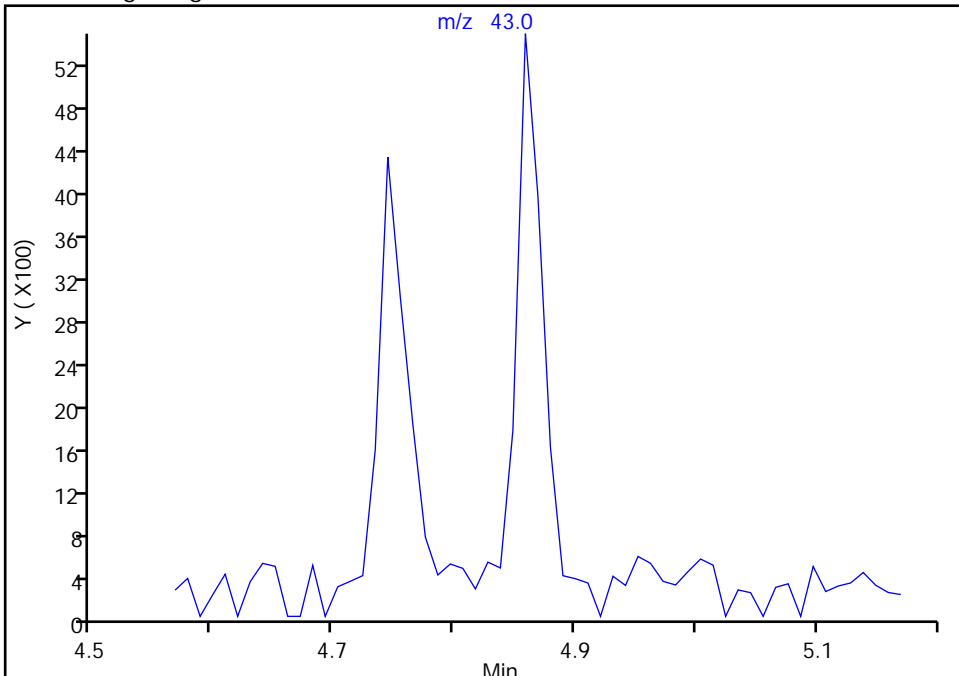
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

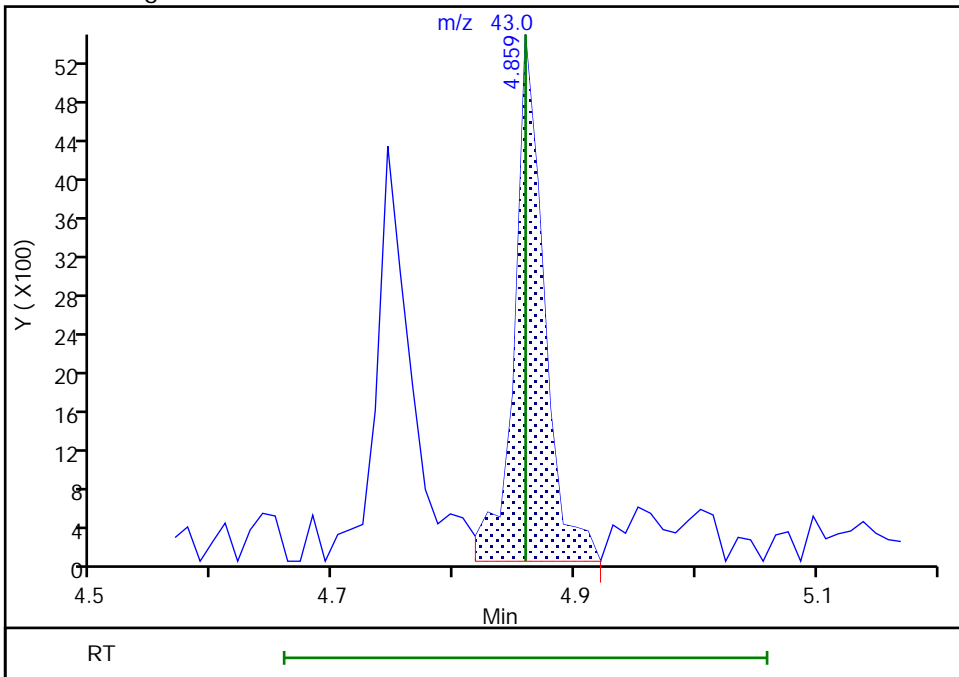
Signal: 1

Not Detected
Expected RT: 4.86

Processing Integration Results



Manual Integration Results



RT: 4.86
Area: 9245
Amount: 0.670451
Amount Units: ug/L

TestAmerica Buffalo

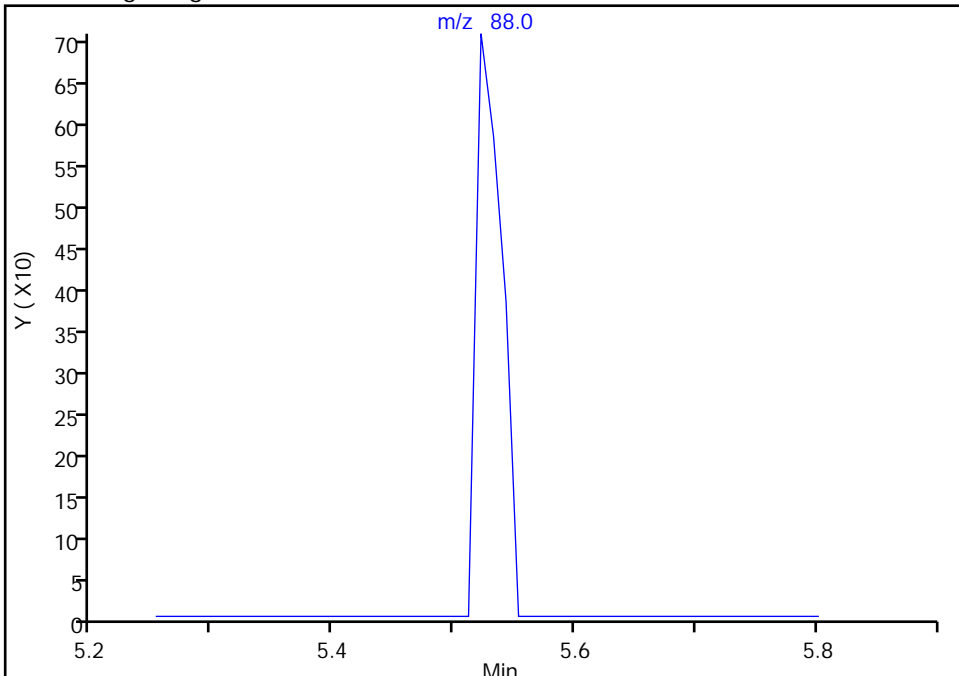
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

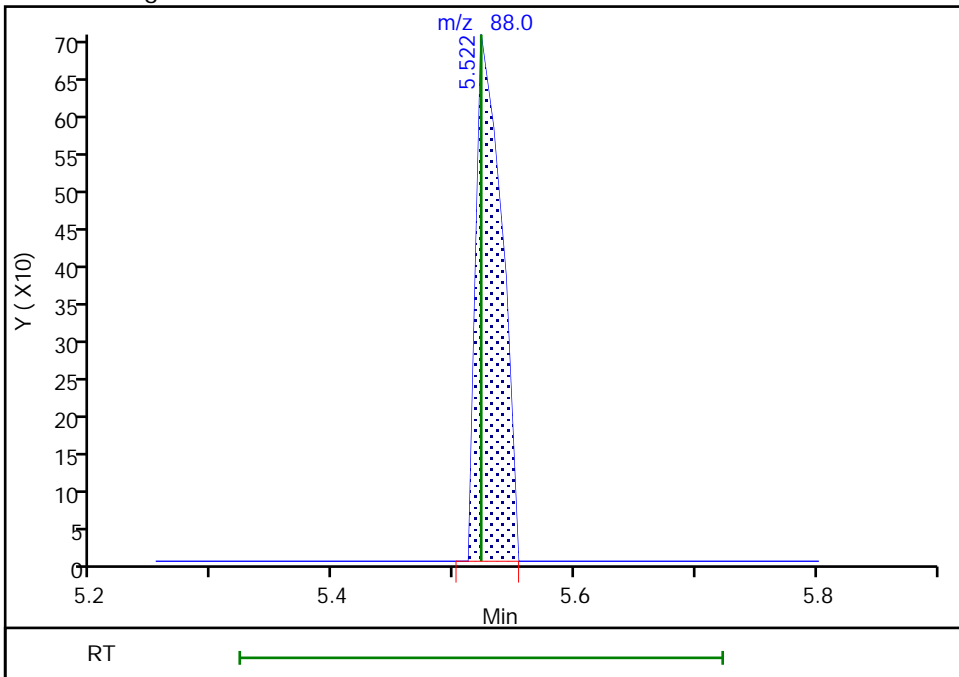
Not Detected
Expected RT: 5.52

Processing Integration Results



Manual Integration Results

RT: 5.52
Area: 1033
Amount: 7.118130
Amount Units: ug/L



Reviewer: carrolln, 09-Jan-2019 17:58:50
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 439 of 605

TestAmerica Buffalo

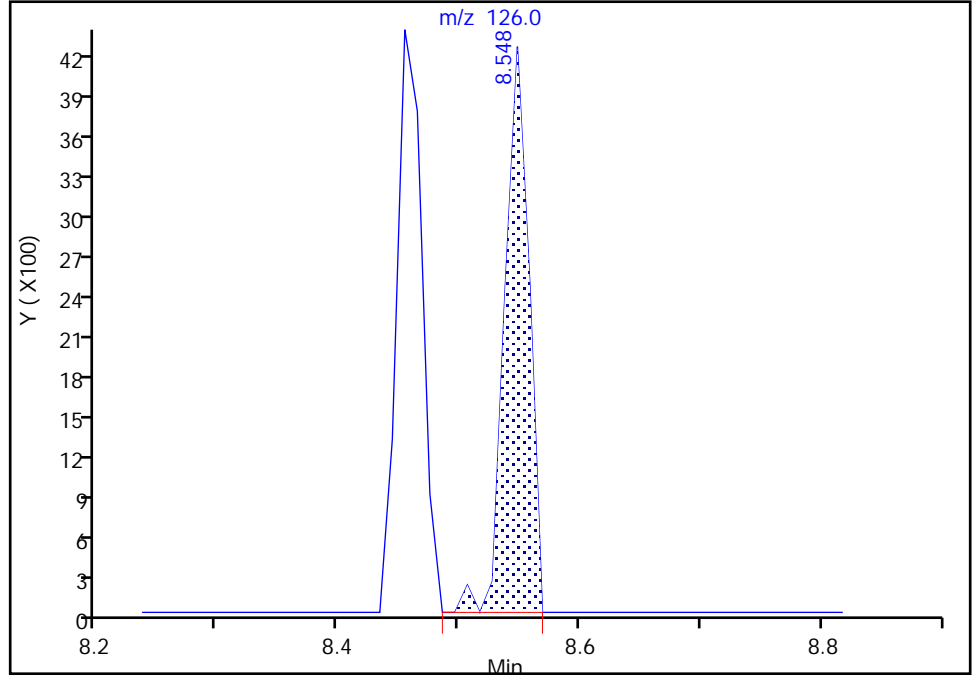
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

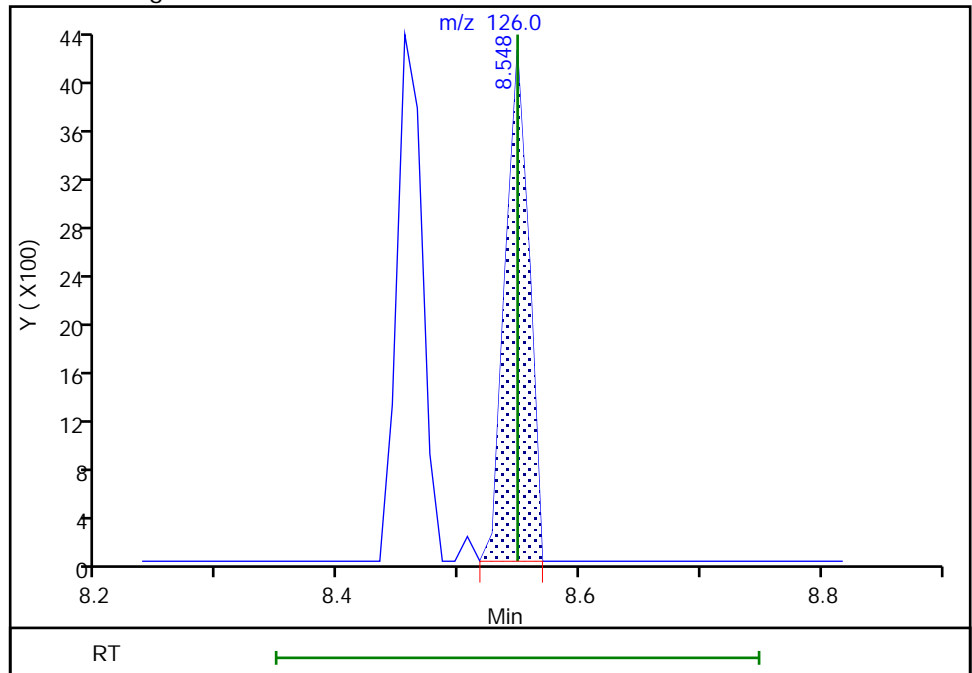
RT: 8.55
Area: 5918
Amount: 0.445373
Amount Units: ug/L

Processing Integration Results



RT: 8.55
Area: 5791
Amount: 0.435278
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:01:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

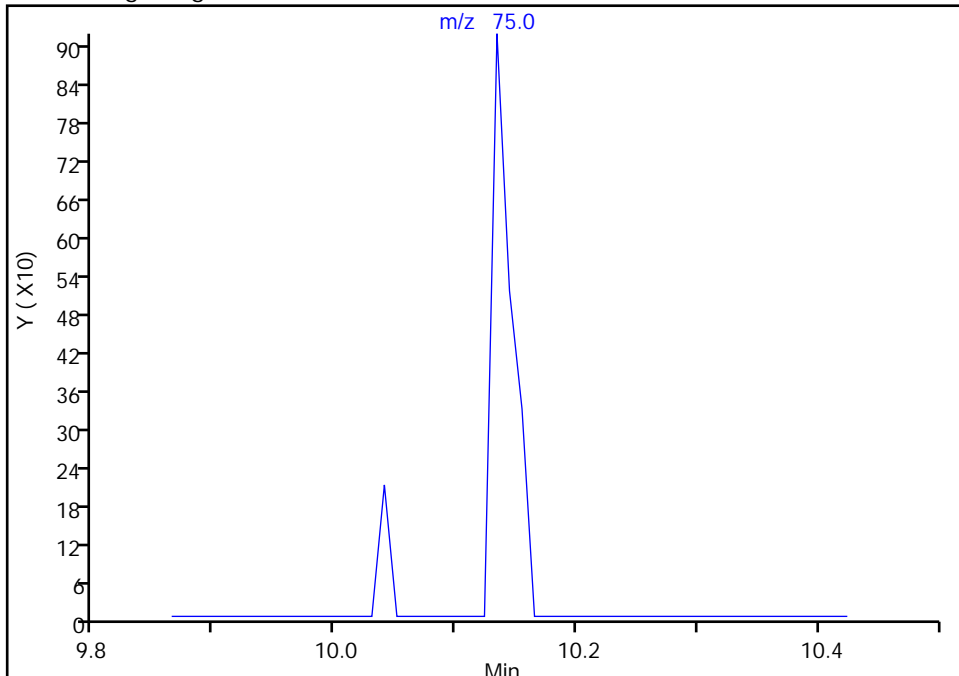
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

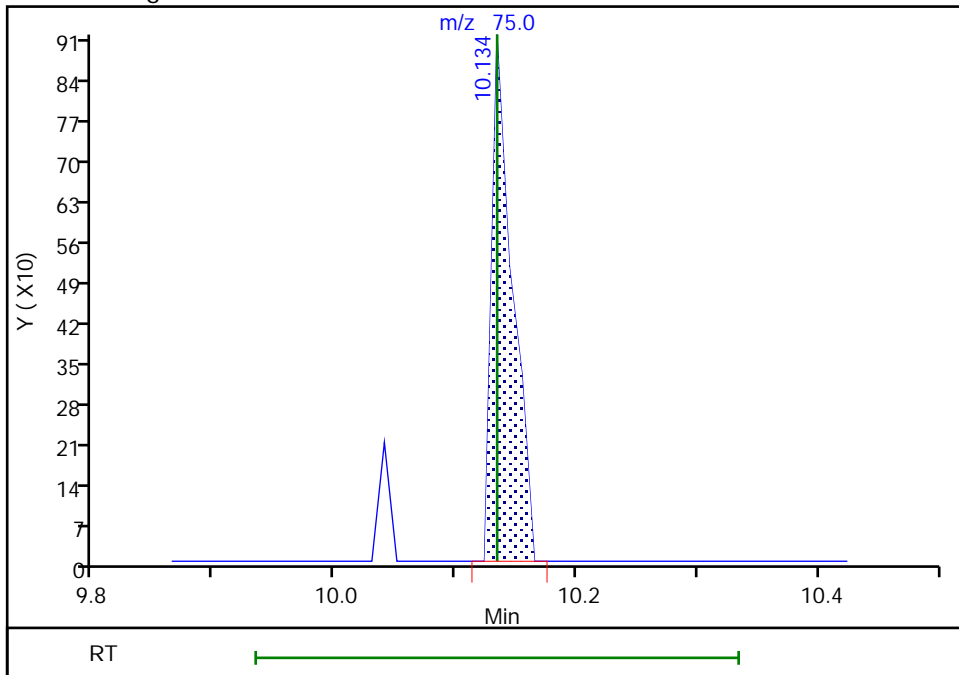
Not Detected
Expected RT: 10.13

Processing Integration Results



Manual Integration Results

RT: 10.13
Area: 1087
Amount: 0.454182
Amount Units: ug/L



Reviewer: carrolln, 09-Jan-2019 18:01:32
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

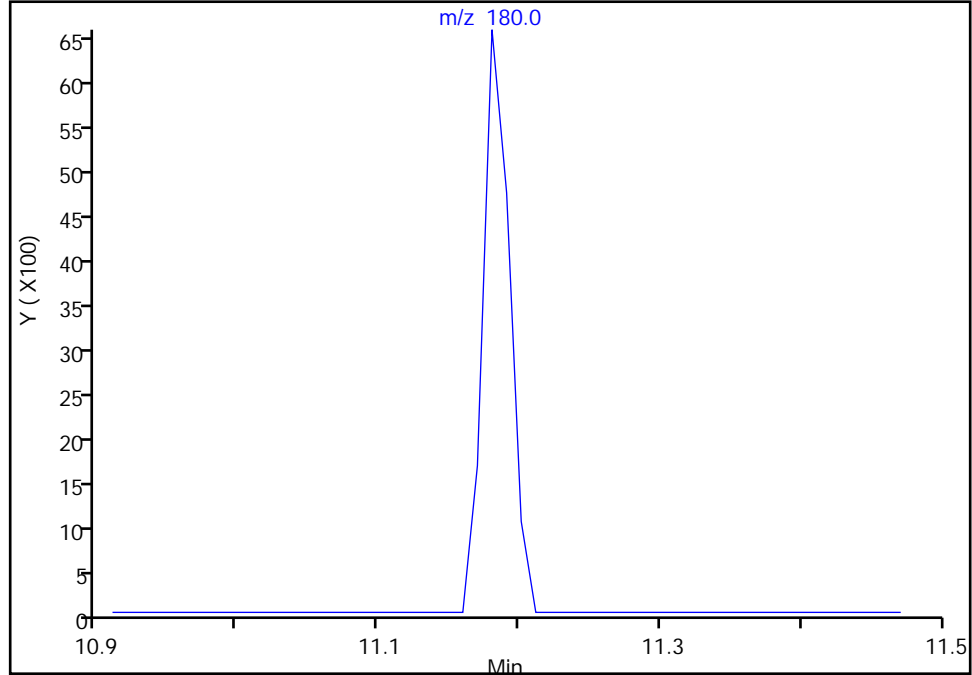
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Injection Date: 09-Jan-2019 14:30:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

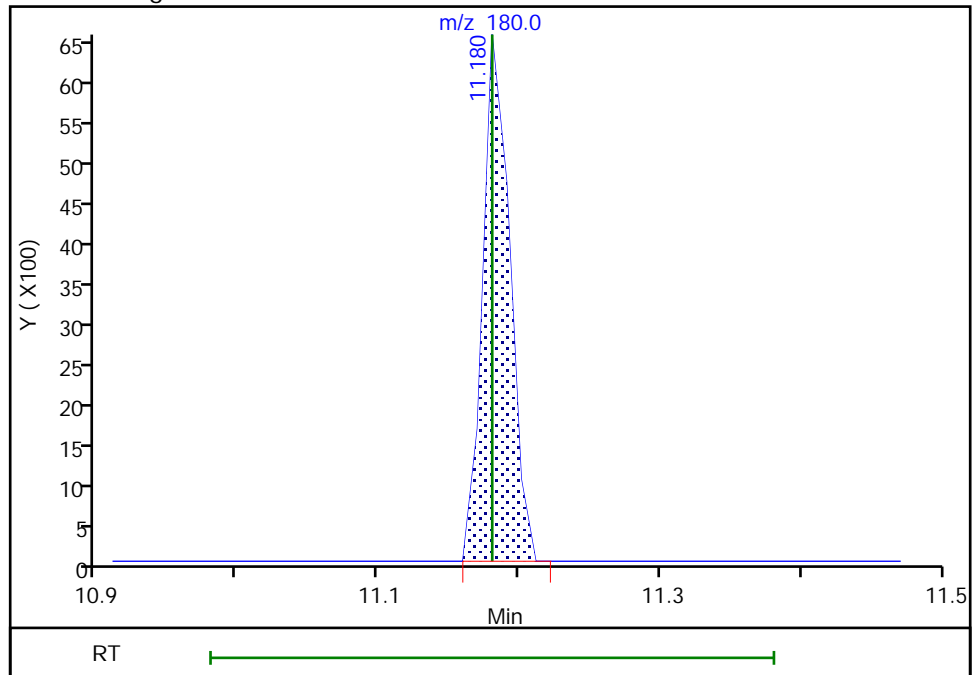
Not Detected
Expected RT: 11.18

Processing Integration Results



RT: 11.18
Area: 8655
Amount: 0.461248
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:01:45
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3452.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Jan-2019 14:57:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 480-0077863-005
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:07:21 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln

Date: 09-Jan-2019 18:09:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	98	177046	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	88	316972	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	96	341803	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	92	269838	25.0	26.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	96	159963	25.0	25.8	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	95	825561	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	90	252635	25.0	25.3	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	98	11166	1.00	0.9370	
12 Chloromethane	50	1.346	1.346	0.000	97	15957	1.00	1.06	
13 Vinyl chloride	62	1.439	1.439	0.000	95	12205	1.00	0.99	
151 Butadiene	54	1.450	1.450	0.000	98	13436	1.00	1.11	
14 Bromomethane	94	1.729	1.729	0.000	94	9855	1.00	1.16	
15 Chloroethane	64	1.823	1.823	0.000	96	8329	1.00	1.07	
16 Dichlorofluoromethane	67	2.040	2.040	0.000	93	20222	1.00	1.03	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	76	15074	1.00	0.9208	
18 Ethyl ether	59	2.330	2.331	-0.001	93	10938	1.00	1.09	
20 Acrolein	56	2.507	2.507	0.000	93	10567	5.00	4.64	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	62	6201	1.00	0.7395	
22 1,1-Dichloroethene	96	2.538	2.538	0.000	91	8337	1.00	0.9185	
23 Acetone	43	2.662	2.662	0.000	98	25107	5.00	5.41	M
25 Iodomethane	142	2.693	2.704	-0.011	96	17893	1.00	0.99	
26 Carbon disulfide	76	2.735	2.735	0.000	100	31766	1.00	1.06	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	89	20708	1.00	1.07	
27 Methyl acetate	43	2.942	2.942	0.000	99	25249	2.00	2.06	a
30 Methylene Chloride	84	3.035	3.035	0.000	96	13616	1.00	1.16	
31 2-Methyl-2-propanol	59	3.201	3.191	0.010	98	14783	10.0	8.78	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	98	31289	1.00	0.9834	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	95	11914	1.00	1.07	
33 Acrylonitrile	53	3.294	3.294	0.000	98	51144	10.0	9.71	
35 Hexane	57	3.408	3.408	0.000	96	11466	1.00	0.9050	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	22202	1.00	1.11	
37 Vinyl acetate	43	3.657	3.657	0.000	97	40003	2.00	1.82	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	81	12117	1.00	1.15	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	78	15129	1.00	1.14	
43 2-Butanone (MEK)	43	4.123	4.113	0.010	99	29410	5.00	4.69	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	7252	1.00	1.07	
49 Tetrahydrofuran	42	4.299	4.299	0.000	90	10683	2.00	2.28	
50 Chloroform	83	4.351	4.351	0.000	97	21787	1.00	1.08	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.000	95	16851	1.00	1.07	
52 Cyclohexane	56	4.445	4.445	0.000	89	15533	1.00	0.9326	
55 Carbon tetrachloride	117	4.559	4.548	0.011	94	12360	1.00	1.00	
54 1,1-Dichloropropene	75	4.559	4.559	0.000	88	13542	1.00	1.02	
57 Benzene	78	4.735	4.735	0.000	61	41977	1.00	1.01	
53 Isobutyl alcohol	43	4.745	4.745	0.000	88	14837	25.0	22.7	
58 1,2-Dichloroethane	62	4.787	4.787	-0.001	96	18443	1.00	1.06	
59 n-Heptane	43	4.859	4.859	0.000	95	12521	1.00	1.05	
62 Trichloroethene	95	5.222	5.222	0.000	90	10191	1.00	0.9255	
64 Methylcyclohexane	83	5.315	5.315	0.000	95	11910	1.00	0.8101	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	91	11204	1.00	1.05	
66 1,4-Dioxane	88	5.522	5.522	0.000	41	1886	20.0	15.4	
67 Dibromomethane	93	5.522	5.522	0.000	93	7008	1.00	0.9777	
68 Dichlorobromomethane	83	5.636	5.636	0.000	93	11790	1.00	0.9674	
69 2-Chloroethyl vinyl ether	63	5.844	5.844	0.000	94	5042	1.00	0.7986	
72 cis-1,3-Dichloropropene	75	5.958	5.958	0.000	87	10775	1.00	0.7763	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	55832	5.00	4.68	
74 Toluene	92	6.175	6.175	0.000	96	21330	1.00	0.9459	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	93	8128	1.00	0.7393	
75 Ethyl methacrylate	69	6.414	6.414	0.000	91	9773	1.00	0.9251	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	92	6745	1.00	1.00	
81 Tetrachloroethene	166	6.590	6.590	0.000	95	10275	1.00	1.06	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	94	11746	1.00	0.9008	
80 2-Hexanone	43	6.704	6.704	0.000	98	35483	5.00	4.74	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	5989	1.00	0.8147	
84 Ethylene Dibromide	107	6.932	6.932	0.000	94	6965	1.00	0.8591	
87 Chlorobenzene	112	7.284	7.284	0.000	96	27384	1.00	1.04	
88 Ethylbenzene	91	7.336	7.336	0.000	97	44733	1.00	1.04	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	86	7629	1.00	0.8816	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	95	18276	1.00	1.06	
91 o-Xylene	106	7.750	7.750	0.000	95	20253	1.00	1.11	
92 Styrene	104	7.771	7.771	0.000	95	24715	1.00	0.9208	
95 Bromoform	173	7.978	7.968	0.010	92	3641	1.00	0.8517	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	44796	1.00	0.9580	
101 Bromobenzene	156	8.320	8.320	0.000	93	10325	1.00	0.8727	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	93	10960	1.00	0.9397	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	49624	1.00	0.9665	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.383	-0.001	71	3303	1.00	0.9453	
100 1,2,3-Trichloropropane	110	8.382	8.383	-0.001	89	3724	1.00	0.9333	
103 2-Chlorotoluene	126	8.455	8.455	0.000	96	12584	1.00	1.04	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	96	37616	1.00	0.9659	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	11813	1.00	1.00	
106 tert-Butylbenzene	134	8.766	8.766	0.000	94	7804	1.00	0.9021	
107 1,2,4-Trimethylbenzene	105	8.807	8.818	-0.011	97	39459	1.00	0.9601	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	95	41089	1.00	0.8908	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	38467	1.00	0.9478	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	25178	1.00	1.04	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	92	25152	1.00	1.02	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	34109	1.00	0.9837	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	94	23973	1.00	0.99	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	70	1631	1.00	0.7640	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	94	18230	1.00	1.04	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	92	8295	1.00	1.28	
121 Naphthalene	128	10.994	10.994	0.000	97	45962	1.00	0.9351	
122 1,2,3-Trichlorobenzene	180	11.181	11.181	-0.001	93	18204	1.00	1.09	
S 124 Xylenes, Total	1				0			2.17	
S 125 1,2-Dichloroethene, Total	1				0			2.21	
S 126 1,3-Dichloropropene, Total	1				0			1.52	
S 123 Total BTEX	1				0			5.17	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00144

Amount Added: 1.00

Units: uL

GAS CORP mix_00321

Amount Added: 1.00

Units: uL

C_8260_IS_00127

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00143

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3452.D

Injection Date: 09-Jan-2019 14:57:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

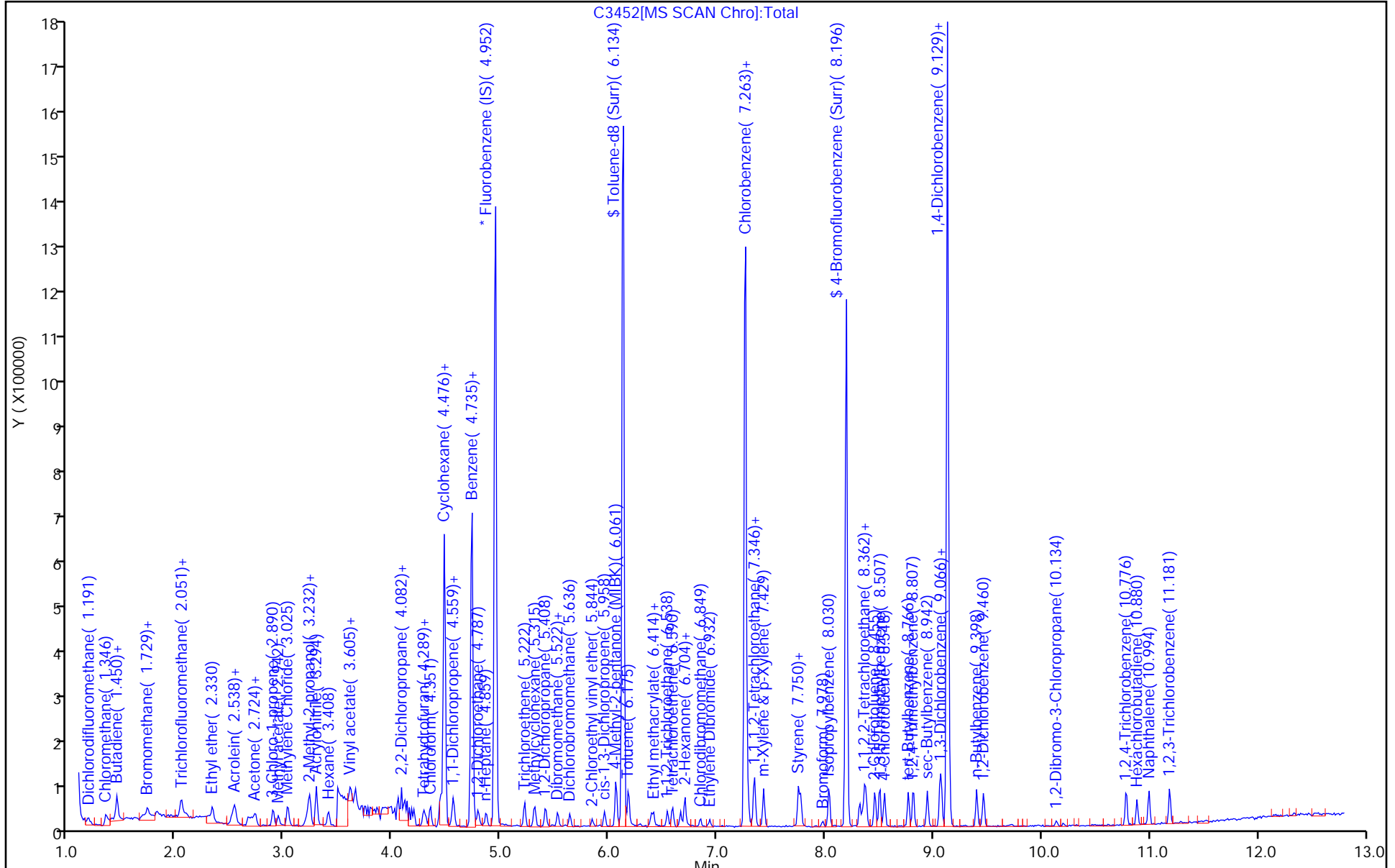
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

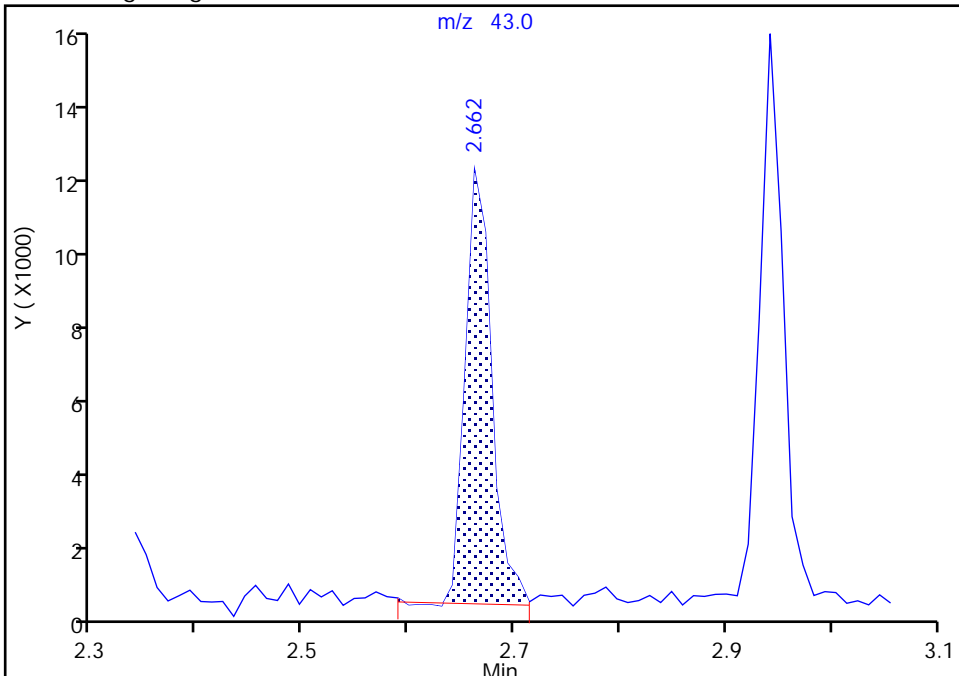
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3452.D
Injection Date: 09-Jan-2019 14:57:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

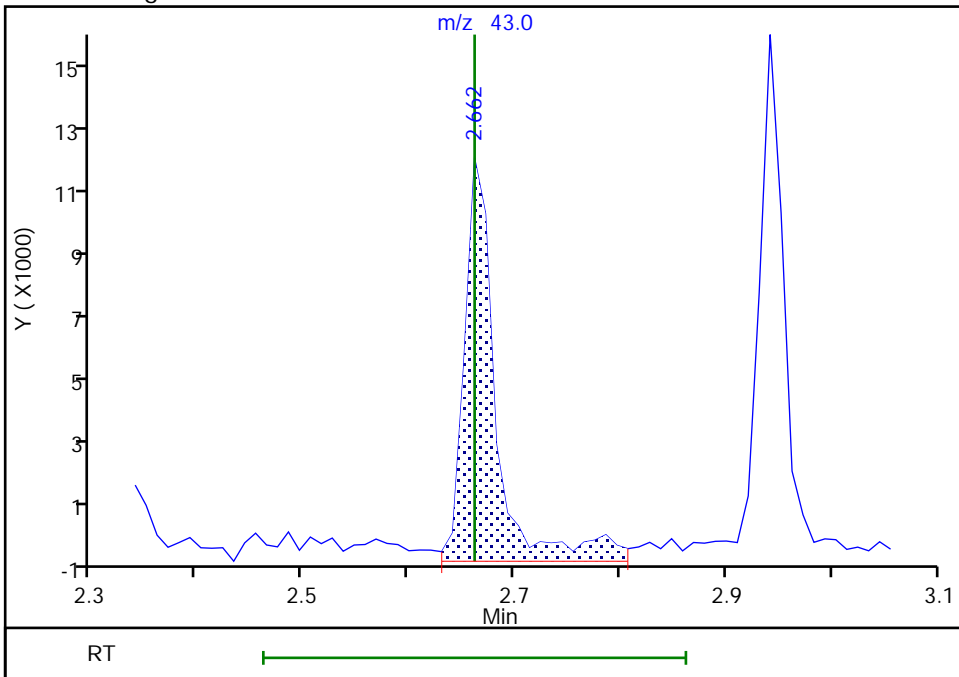
RT: 2.66
Area: 20248
Amount: 4.365591
Amount Units: ug/L

Processing Integration Results



RT: 2.66
Area: 25107
Amount: 5.410540
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:01:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 447 of 605

TestAmerica Buffalo

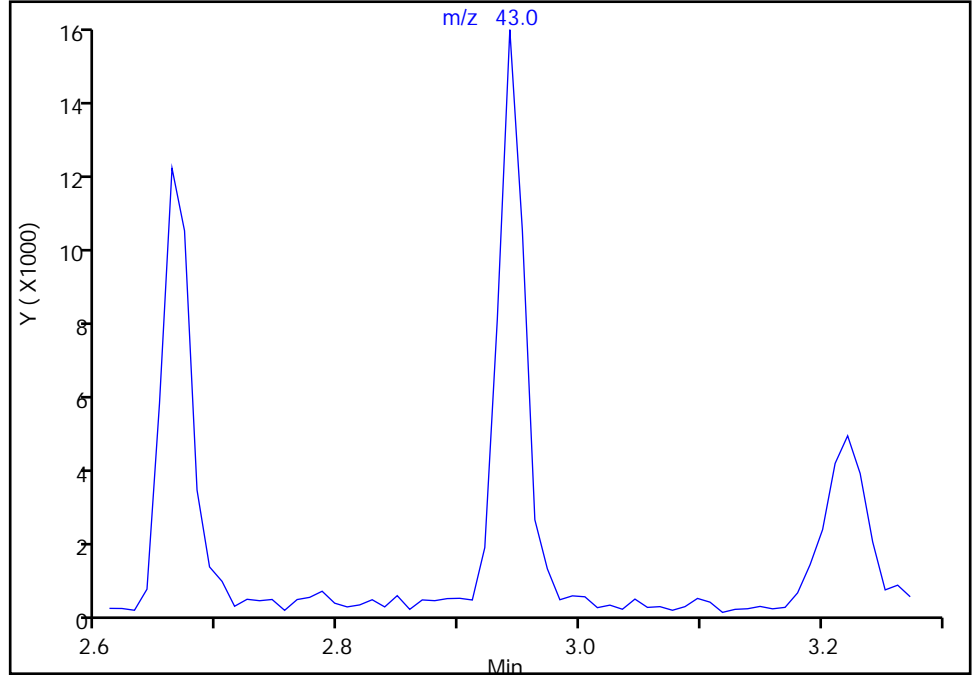
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3452.D
Injection Date: 09-Jan-2019 14:57:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

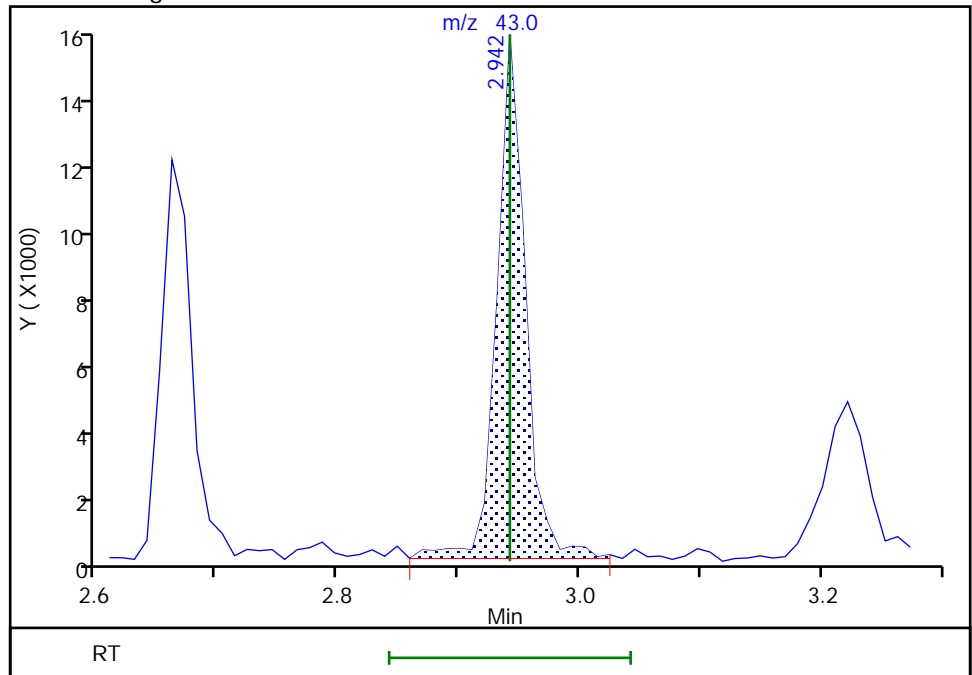
Not Detected
Expected RT: 2.94

Processing Integration Results



RT: 2.94
Area: 25249
Amount: 2.062708
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:06:44
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3453.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Jan-2019 15:23:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 480-0077863-006
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:07:32 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln

Date: 09-Jan-2019 18:14:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	98	160110	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	88	283215	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	96	325540	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	92	241859	25.0	26.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	95	142625	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	713854	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	90	229352	25.0	25.7	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	97	20933	2.00	1.94	
12 Chloromethane	50	1.336	1.346	-0.010	99	34500	2.00	2.53	
13 Vinyl chloride	62	1.439	1.439	0.000	97	25631	2.00	2.31	
151 Butadiene	54	1.450	1.450	0.000	94	23137	2.00	2.10	
14 Bromomethane	94	1.719	1.729	-0.010	92	19054	2.00	2.48	
15 Chloroethane	64	1.823	1.823	0.000	99	18074	2.00	2.58	
16 Dichlorofluoromethane	67	2.040	2.040	0.000	94	41896	2.00	2.36	
17 Trichlorofluoromethane	101	2.040	2.051	-0.011	74	32175	2.00	2.17	
18 Ethyl ether	59	2.331	2.331	0.000	92	20126	2.00	2.21	
20 Acrolein	56	2.517	2.507	0.010	96	25822	10.0	12.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	90	16617	2.00	2.19	
22 1,1-Dichloroethene	96	2.538	2.538	0.000	97	18761	2.00	2.29	
23 Acetone	43	2.662	2.662	0.000	0	52622	10.0	12.5	M
25 Iodomethane	142	2.693	2.704	-0.011	99	39785	2.00	2.44	
26 Carbon disulfide	76	2.724	2.735	-0.011	98	64178	2.00	2.36	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	87	40430	2.00	2.30	
27 Methyl acetate	43	2.942	2.942	0.000	98	51031	4.00	4.61	
30 Methylene Chloride	84	3.025	3.035	-0.010	96	27020	2.00	2.55	
31 2-Methyl-2-propanol	59	3.191	3.191	0.000	99	35294	20.0	23.2	M
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	73333	2.00	2.55	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	95	24437	2.00	2.43	
33 Acrylonitrile	53	3.294	3.294	0.000	96	112151	20.0	23.5	
35 Hexane	57	3.408	3.408	0.000	90	23121	2.00	2.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	43021	2.00	2.38	
37 Vinyl acetate	43	3.657	3.657	0.000	98	76342	4.00	3.84	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	88	25048	2.00	2.63	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	83	28083	2.00	2.34	
43 2-Butanone (MEK)	43	4.123	4.113	0.010	98	55044	10.0	9.71	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	14170	2.00	2.32	
49 Tetrahydrofuran	42	4.310	4.299	0.011	92	17981	4.00	4.24	
50 Chloroform	83	4.351	4.351	0.000	97	41008	2.00	2.25	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.000	97	33863	2.00	2.38	
52 Cyclohexane	56	4.445	4.445	0.000	96	34339	2.00	2.28	
55 Carbon tetrachloride	117	4.559	4.548	0.011	97	24009	2.00	2.15	
54 1,1-Dichloropropene	75	4.569	4.559	0.010	90	26362	2.00	2.19	
57 Benzene	78	4.735	4.735	0.000	57	83885	2.00	2.24	
53 Isobutyl alcohol	43	4.745	4.745	0.000	89	31468	50.0	53.3	M
58 1,2-Dichloroethane	62	4.787	4.787	0.000	97	32403	2.00	2.06	
59 n-Heptane	43	4.859	4.859	0.000	97	23775	2.00	2.20	
62 Trichloroethene	95	5.222	5.222	0.000	95	21051	2.00	2.11	
64 Methylcyclohexane	83	5.315	5.315	0.000	93	29146	2.00	2.19	
65 1,2-Dichloropropane	63	5.419	5.408	0.011	85	20116	2.00	2.09	
66 1,4-Dioxane	88	5.522	5.522	0.000	44	4793	40.0	43.9	
67 Dibromomethane	93	5.522	5.522	0.000	91	14110	2.00	2.18	
68 Dichlorobromomethane	83	5.636	5.636	0.000	95	22325	2.00	2.03	
69 2-Chloroethyl vinyl ether	63	5.844	5.844	0.000	91	8867	2.00	1.55	
72 cis-1,3-Dichloropropene	75	5.958	5.958	0.000	88	20599	2.00	1.64	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	118368	10.0	11.1	
74 Toluene	92	6.186	6.175	0.011	98	42118	2.00	2.09	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	96	15638	2.00	1.59	
75 Ethyl methacrylate	69	6.414	6.414	0.000	92	18156	2.00	1.92	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	93	12068	2.00	2.01	
81 Tetrachloroethene	166	6.590	6.590	0.000	88	16679	2.00	1.92	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	94	22557	2.00	1.94	
80 2-Hexanone	43	6.704	6.704	0.000	98	67858	10.0	10.1	
83 Chlorodibromomethane	129	6.849	6.849	0.000	89	12192	2.00	1.86	
84 Ethylene Dibromide	107	6.932	6.932	0.000	96	12326	2.00	1.70	
87 Chlorobenzene	112	7.284	7.284	0.000	96	47615	2.00	2.03	
88 Ethylbenzene	91	7.346	7.336	0.010	99	82665	2.00	2.16	
89 1,1,1,2-Tetrachloroethane	131	7.357	7.346	0.011	87	15947	2.00	2.06	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	98	32879	2.00	2.13	
91 o-Xylene	106	7.750	7.750	0.000	97	36833	2.00	2.26	
92 Styrene	104	7.771	7.771	0.000	94	51005	2.00	2.13	
95 Bromoform	173	7.968	7.968	0.000	89	7141	2.00	1.87	
94 Isopropylbenzene	105	8.030	8.030	0.000	97	84439	2.00	1.90	
101 Bromobenzene	156	8.320	8.320	0.000	93	21784	2.00	1.93	
97 1,1,2,2-Tetrachloroethane	83	8.351	8.341	0.010	94	21403	2.00	1.93	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	96533	2.00	1.97	
98 trans-1,4-Dichloro-2-buten	53	8.383	8.383	0.000	68	5503	2.00	1.65	
100 1,2,3-Trichloropropane	110	8.383	8.383	0.000	92	8168	2.00	2.15	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	22941	2.00	2.00	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	94	75398	2.00	2.03	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	23016	2.00	2.04	
106 tert-Butylbenzene	134	8.766	8.766	0.000	93	13794	2.00	1.67	
107 1,2,4-Trimethylbenzene	105	8.818	8.818	0.000	98	78188	2.00	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	83038	2.00	1.89	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	96	75273	2.00	1.95	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	97	48617	2.00	2.10	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	92	49918	2.00	2.13	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	68784	2.00	2.08	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	96	51179	2.00	2.23	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	73	4341	2.00	2.14	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	94	37596	2.00	2.25	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	90	12206	2.00	1.97	
121 Naphthalene	128	10.994	10.994	0.000	97	103942	2.00	2.22	
122 1,2,3-Trichlorobenzene	180	11.181	11.181	0.000	93	34580	2.00	2.17	
S 124 Xylenes, Total	1				0			4.39	
S 125 1,2-Dichloroethene, Total	1				0			4.78	
S 126 1,3-Dichloropropene, Total	1				0			3.23	
S 123 Total BTEX	1				0			10.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144

Amount Added: 2.00

Units: uL

GAS CORP mix_00321

Amount Added: 2.00

Units: uL

C_8260_IS_00127

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00143

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3453.D

Injection Date: 09-Jan-2019 15:23:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

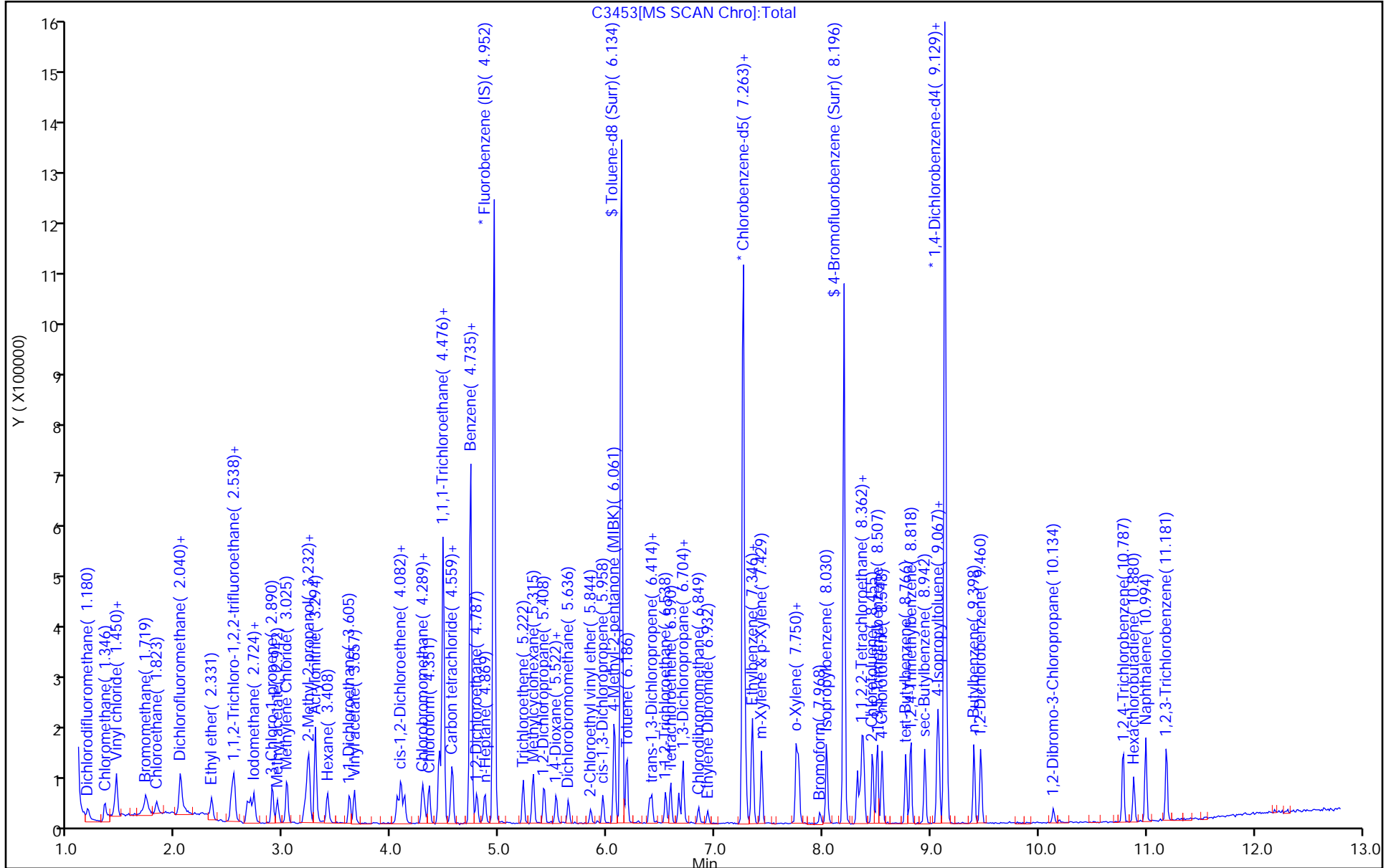
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

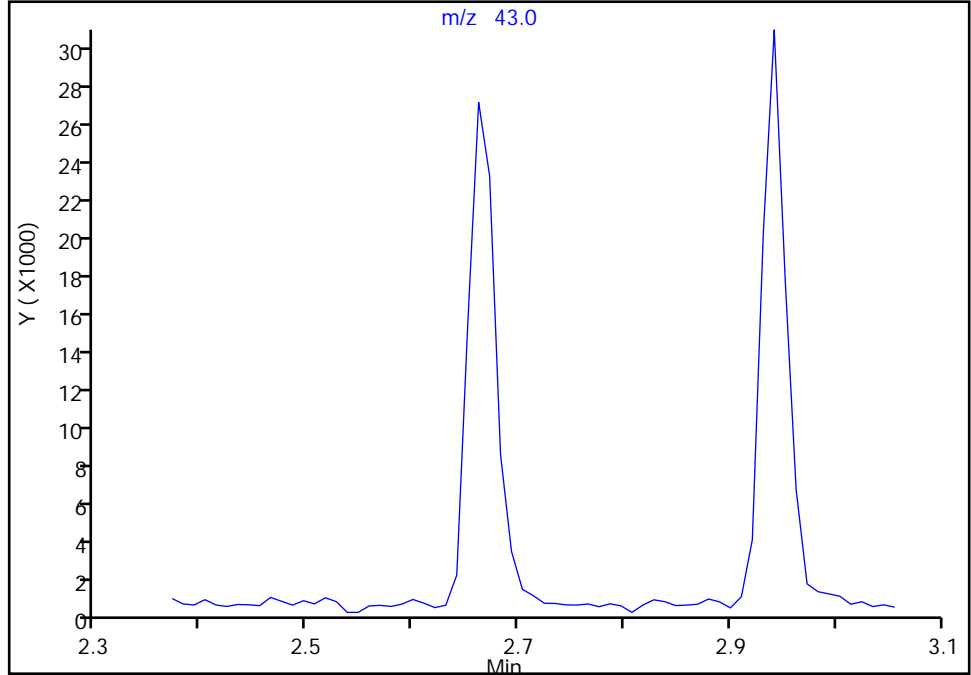
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Injection Date: 09-Jan-2019 15:23:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

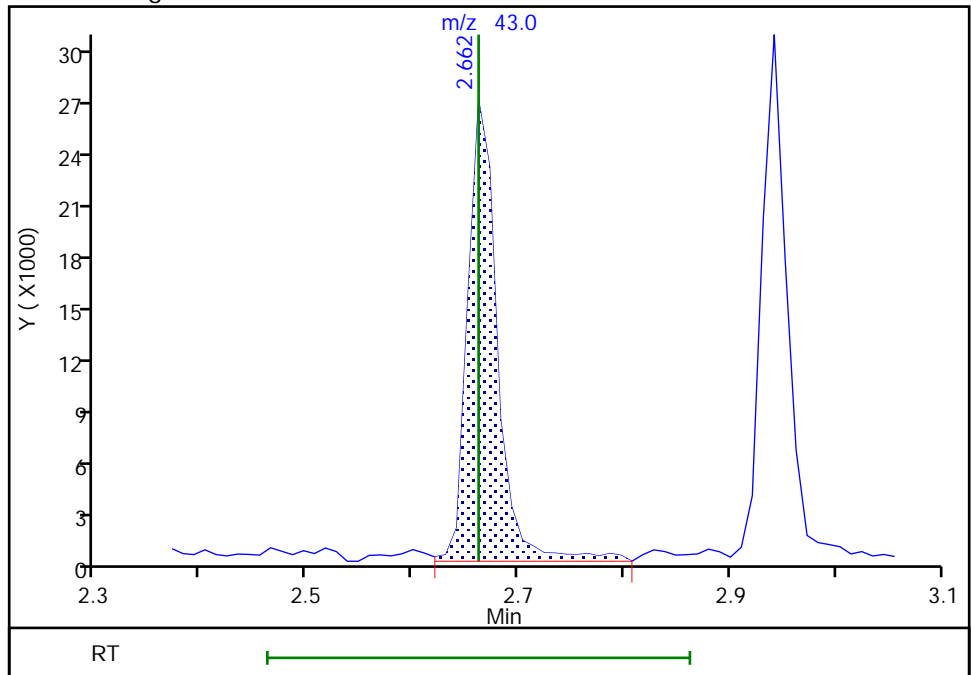
Not Detected
Expected RT: 2.66

Processing Integration Results



RT: 2.66
Area: 52622
Amount: 12.539517
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:11:49
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

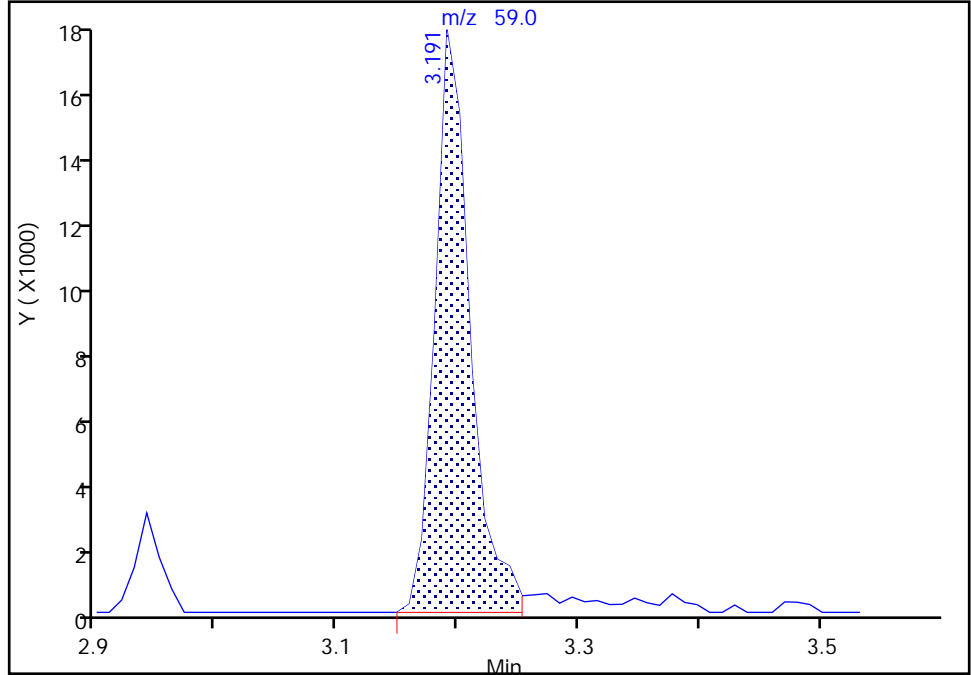
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3453.D
Injection Date: 09-Jan-2019 15:23:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

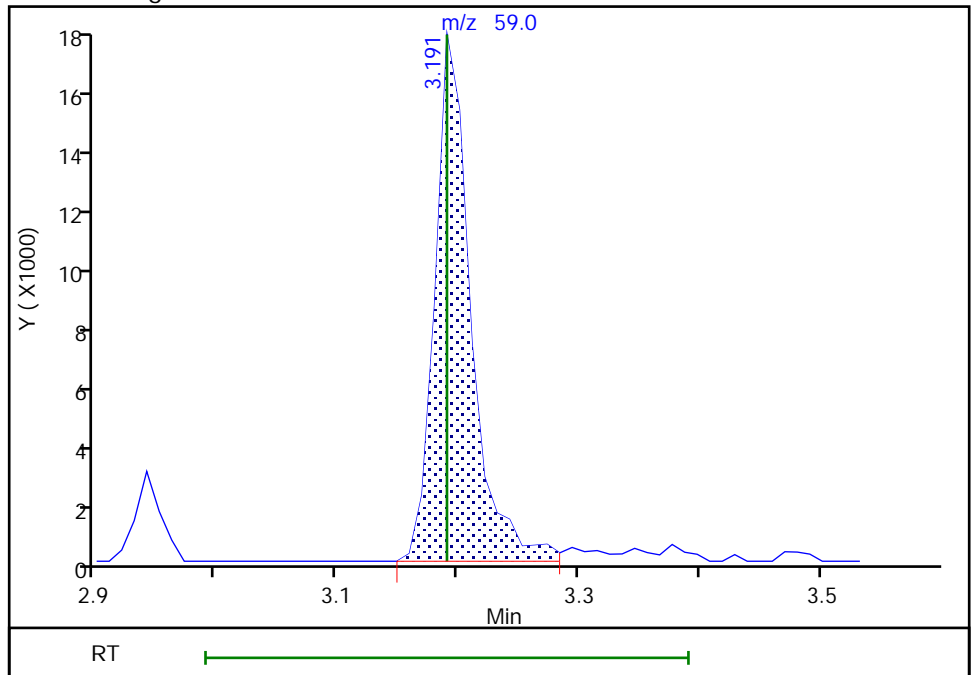
RT: 3.19
Area: 34469
Amount: 22.756980
Amount Units: ug/L

Processing Integration Results



RT: 3.19
Area: 35294
Amount: 23.170981
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:08:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

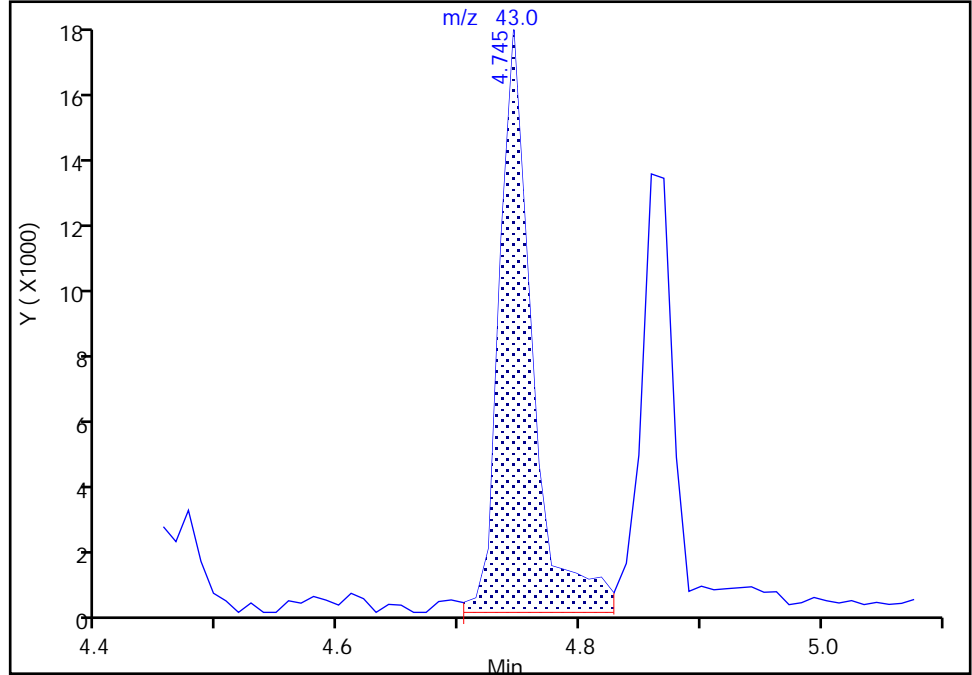
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3453.D
Injection Date: 09-Jan-2019 15:23:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

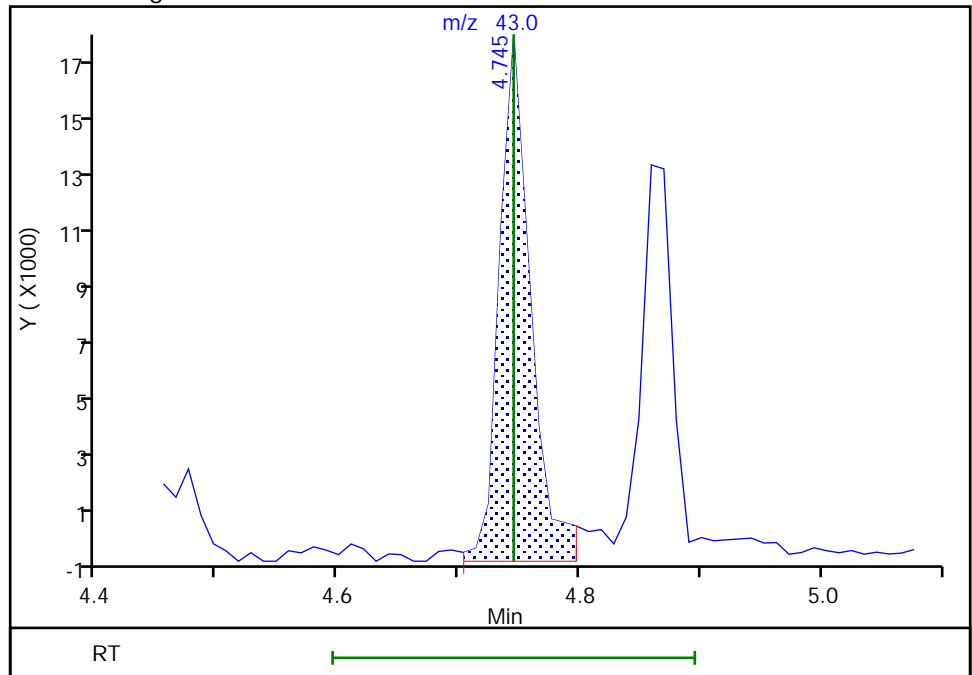
RT: 4.75
Area: 33080
Amount: 55.000468
Amount Units: ug/L

Processing Integration Results



RT: 4.75
Area: 31468
Amount: 53.320530
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:49:12
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3454.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Jan-2019 15:50:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 3
 Misc. Info.: 480-0077863-007
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:07:43 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln

Date: 09-Jan-2019 18:44:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	199274	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	87	400152	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.128	0.000	97	391787	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.475	0.000	93	273848	25.0	24.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	94	178146	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1032822	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	90	315931	25.0	25.0	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	98	64184	5.00	4.79	
12 Chloromethane	50	1.346	1.346	0.000	98	77635	5.00	4.57	
13 Vinyl chloride	62	1.449	1.449	0.000	98	64508	5.00	4.67	
151 Butadiene	54	1.449	1.449	0.000	99	59532	5.00	4.35	
14 Bromomethane	94	1.729	1.729	0.000	92	42404	5.00	4.44	
15 Chloroethane	64	1.823	1.823	0.000	97	38079	5.00	4.37	
16 Dichlorofluoromethane	67	2.050	2.050	0.000	95	96945	5.00	4.39	
17 Trichlorofluoromethane	101	2.050	2.050	0.000	75	84993	5.00	4.61	
18 Ethyl ether	59	2.330	2.330	0.000	96	52862	5.00	4.67	
20 Acrolein	56	2.517	2.517	0.000	98	55194	25.0	21.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	92	47867	5.00	5.07	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	95	47172	5.00	4.62	
23 Acetone	43	2.662	2.662	0.000	98	119997	25.0	23.0	M
25 Iodomethane	142	2.703	2.703	0.000	99	89436	5.00	4.40	
26 Carbon disulfide	76	2.734	2.734	0.000	99	150738	5.00	4.45	
28 3-Chloro-1-propene	41	2.900	2.900	0.000	87	96697	5.00	4.42	
27 Methyl acetate	43	2.942	2.942	0.000	99	124982	10.0	9.07	
30 Methylene Chloride	84	3.035	3.035	0.000	98	57815	5.00	4.39	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	99	88367	50.0	46.6	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	155086	5.00	4.33	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	97	58628	5.00	4.69	
33 Acrylonitrile	53	3.294	3.294	0.000	99	274027	50.0	46.2	
35 Hexane	57	3.408	3.408	0.000	95	74862	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	101907	5.00	4.52	
37 Vinyl acetate	43	3.657	3.657	0.000	97	237074	10.0	9.57	
44 2,2-Dichloropropane	77	4.061	4.061	0.000	90	51534	5.00	4.34	
45 cis-1,2-Dichloroethene	96	4.092	4.092	0.000	80	68688	5.00	4.60	
43 2-Butanone (MEK)	43	4.123	4.123	0.000	99	174609	25.0	24.8	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	32684	5.00	4.30	
49 Tetrahydrofuran	42	4.299	4.299	0.000	89	46879	10.0	8.89	
50 Chloroform	83	4.351	4.351	0.000	96	98754	5.00	4.35	
51 1,1,1-Trichloroethane	97	4.444	4.444	0.000	97	80439	5.00	4.55	M
52 Cyclohexane	56	4.444	4.444	0.000	94	93090	5.00	4.97	
55 Carbon tetrachloride	117	4.558	4.558	0.000	93	61855	5.00	4.46	
54 1,1-Dichloropropene	75	4.569	4.569	0.000	89	74483	5.00	4.98	
57 Benzene	78	4.735	4.735	0.000	73	222894	5.00	4.77	
53 Isobutyl alcohol	43	4.745	4.745	0.000	93	81205	125.0	110.6	M
58 1,2-Dichloroethane	62	4.786	4.786	0.000	96	88419	5.00	4.51	
59 n-Heptane	43	4.869	4.869	0.000	94	70929	5.00	5.26	
62 Trichloroethene	95	5.222	5.222	0.000	96	60809	5.00	4.91	
64 Methylcyclohexane	83	5.315	5.315	0.000	94	85069	5.00	5.14	
65 1,2-Dichloropropane	63	5.418	5.418	0.000	88	56561	5.00	4.73	
66 1,4-Dioxane	88	5.522	5.522	0.000	48	16173	100.0	104.8	M
67 Dibromomethane	93	5.522	5.522	0.000	94	36735	5.00	4.55	
68 Dichlorobromomethane	83	5.636	5.636	0.000	96	62507	5.00	4.56	
69 2-Chloroethyl vinyl ether	63	5.843	5.843	0.000	94	36343	5.00	5.11	
72 cis-1,3-Dichloropropene	75	5.957	5.957	0.000	88	74356	5.00	4.76	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	342737	25.0	22.8	
74 Toluene	92	6.185	6.185	0.000	97	131381	5.00	4.62	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	97	65045	5.00	4.69	
75 Ethyl methacrylate	69	6.413	6.413	0.000	91	61147	5.00	4.58	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	93	42641	5.00	5.02	
81 Tetrachloroethene	166	6.590	6.590	0.000	96	61350	5.00	4.99	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	95	82285	5.00	5.00	
80 2-Hexanone	43	6.703	6.703	0.000	98	227357	25.0	24.0	
83 Chlorodibromomethane	129	6.849	6.849	0.000	91	40994	5.00	4.42	
84 Ethylene Dibromide	107	6.931	6.931	0.000	96	50499	5.00	4.93	
87 Chlorobenzene	112	7.284	7.284	0.000	95	153892	5.00	4.64	
88 Ethylbenzene	91	7.346	7.346	0.000	98	244478	5.00	4.52	
89 1,1,1,2-Tetrachloroethane	131	7.356	7.356	0.000	87	44478	5.00	4.07	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	95	97140	5.00	4.46	
91 o-Xylene	106	7.750	7.750	0.000	98	103024	5.00	4.47	
92 Styrene	104	7.771	7.771	0.000	95	153961	5.00	4.54	
95 Bromoform	173	7.978	7.978	0.000	94	21958	5.00	4.07	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	255975	5.00	4.78	
101 Bromobenzene	156	8.320	8.320	0.000	95	65065	5.00	4.80	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	96	59726	5.00	4.47	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	280966	5.00	4.77	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.382	0.000	71	18562	5.00	4.63	
100 1,2,3-Trichloropropane	110	8.382	8.382	0.000	91	21297	5.00	4.66	
103 2-Chlorotoluene	126	8.455	8.455	0.000	96	66102	5.00	4.79	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	95	206460	5.00	4.63	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	66850	5.00	4.91	
106 tert-Butylbenzene	134	8.766	8.766	0.000	94	49468	5.00	4.99	
107 1,2,4-Trimethylbenzene	105	8.807	8.807	0.000	98	222733	5.00	4.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	259282	5.00	4.90	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	217311	5.00	4.67	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	99	129159	5.00	4.64	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	93	127929	5.00	4.54	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	188533	5.00	4.74	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	97	128542	5.00	4.64	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	73	9628	5.00	3.93	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	95	86379	5.00	4.30	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	96	33506	5.00	4.50	
121 Naphthalene	128	10.994	10.994	0.000	97	241580	5.00	4.29	
122 1,2,3-Trichlorobenzene	180	11.180	11.180	0.000	96	83903	5.00	4.37	
S 124 Xylenes, Total	1				0			8.93	
S 125 1,2-Dichloroethene, Total	1				0			9.30	
S 126 1,3-Dichloropropene, Total	1				0			9.45	
S 123 Total BTEX	1				0			22.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144

Amount Added: 5.00

Units: uL

GAS CORP mix_00321

Amount Added: 5.00

Units: uL

C_8260_IS_00127

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00143

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3454.D

Injection Date: 09-Jan-2019 15:50:30 Instrument ID: HP5973C

Lims ID: IC 3

Operator ID: KN

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

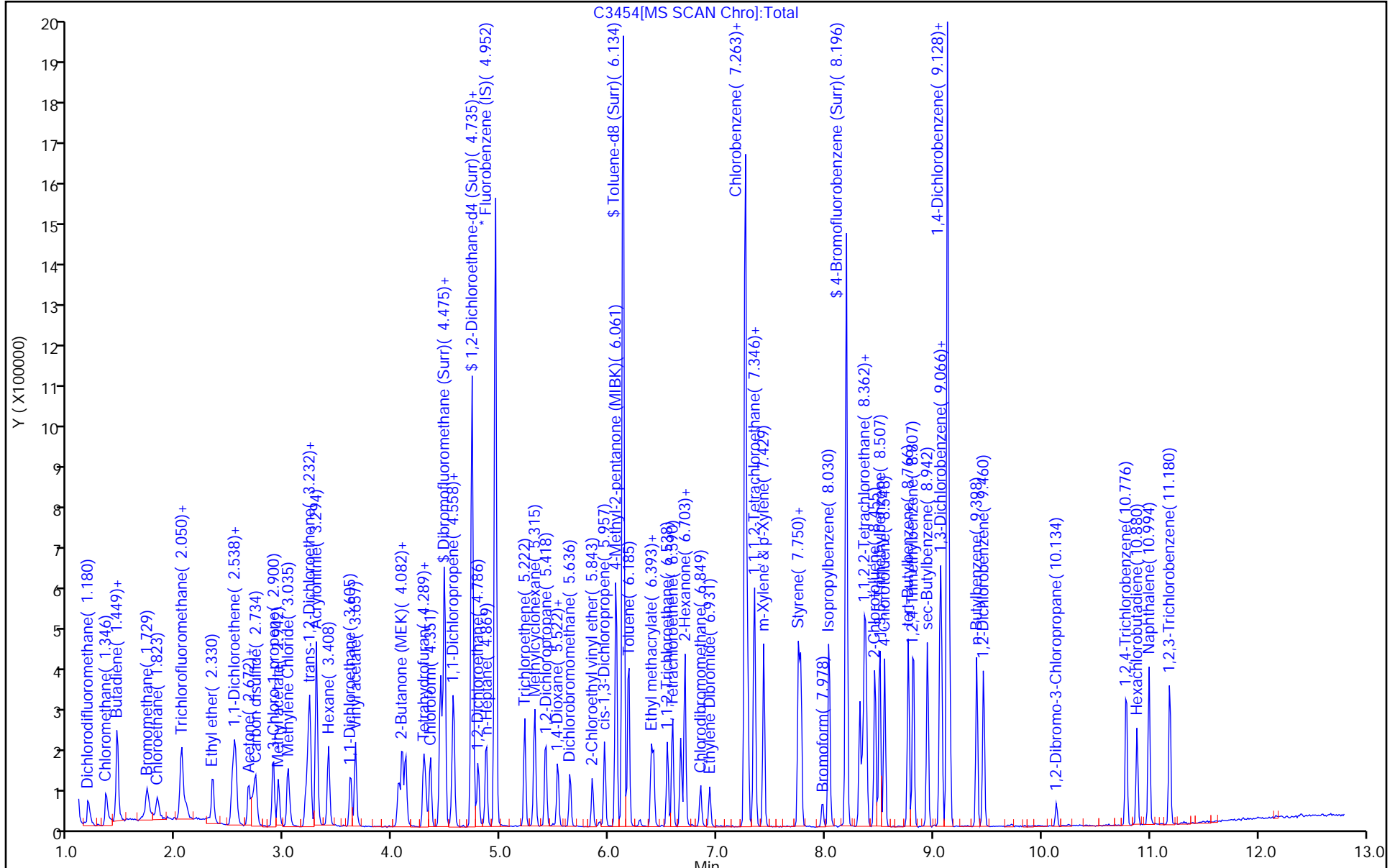
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

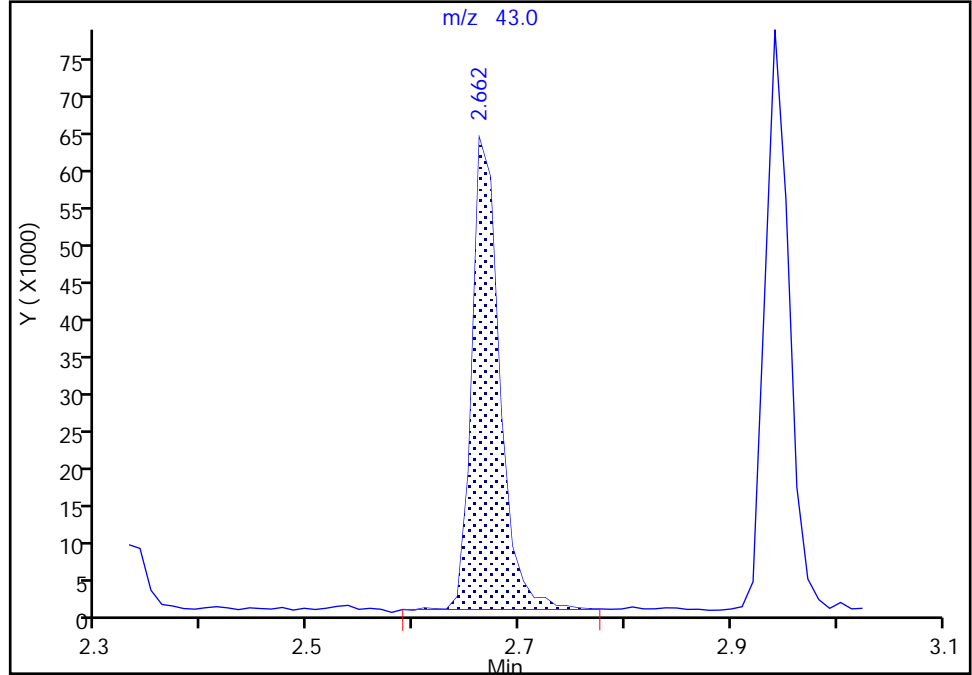
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Injection Date: 09-Jan-2019 15:50:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

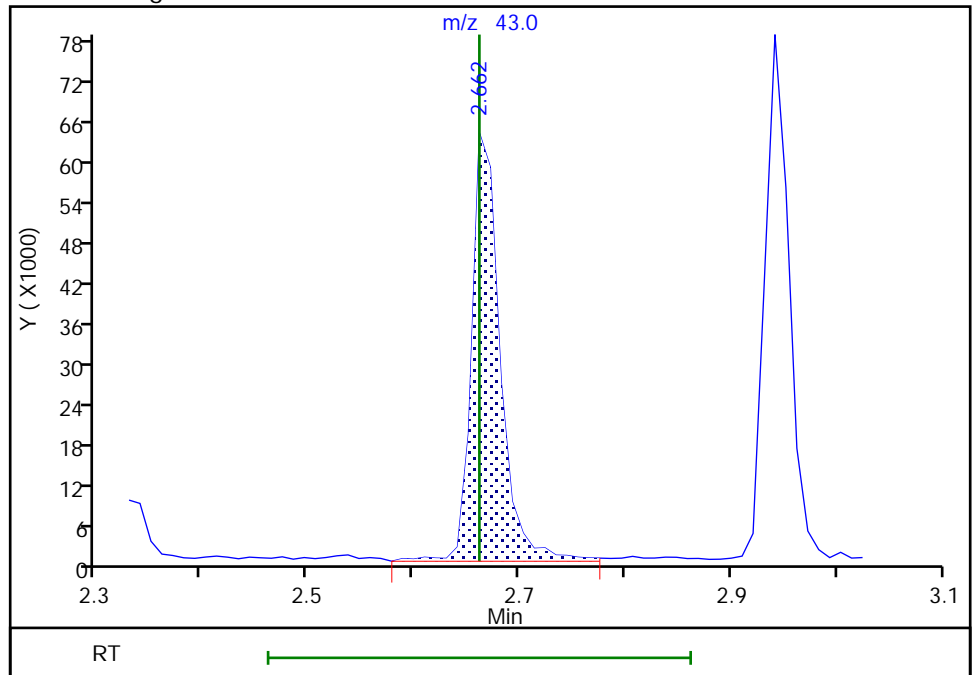
RT: 2.66
Area: 115376
Amount: 21.118992
Amount Units: ug/L

Processing Integration Results



RT: 2.66
Area: 119997
Amount: 22.974797
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:02:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

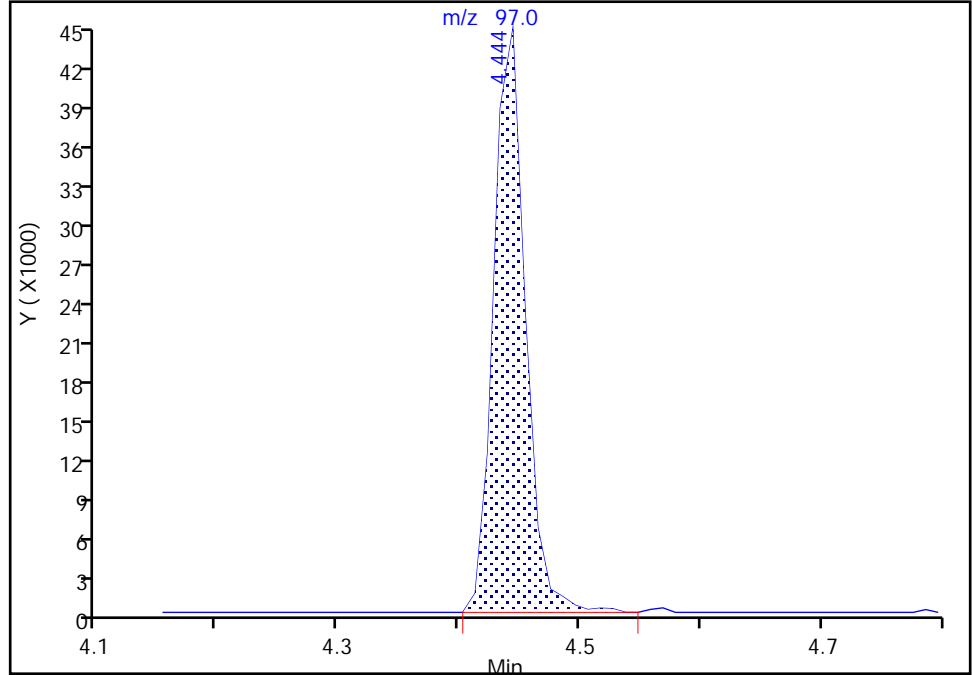
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Injection Date: 09-Jan-2019 15:50:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

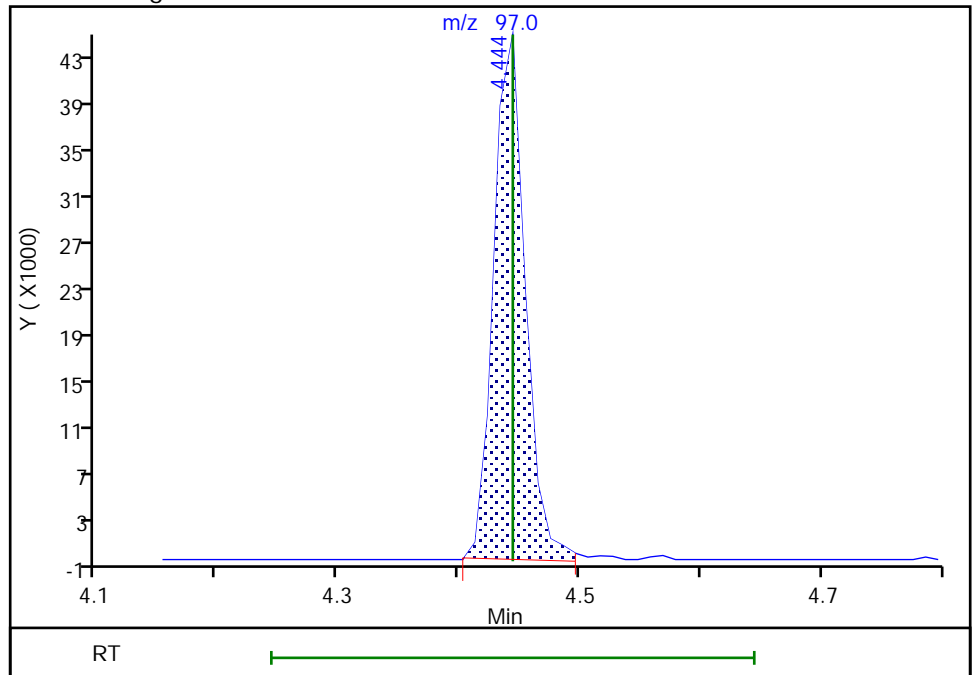
RT: 4.44
Area: 80940
Amount: 4.574188
Amount Units: ug/L

Processing Integration Results



RT: 4.44
Area: 80439
Amount: 4.549095
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

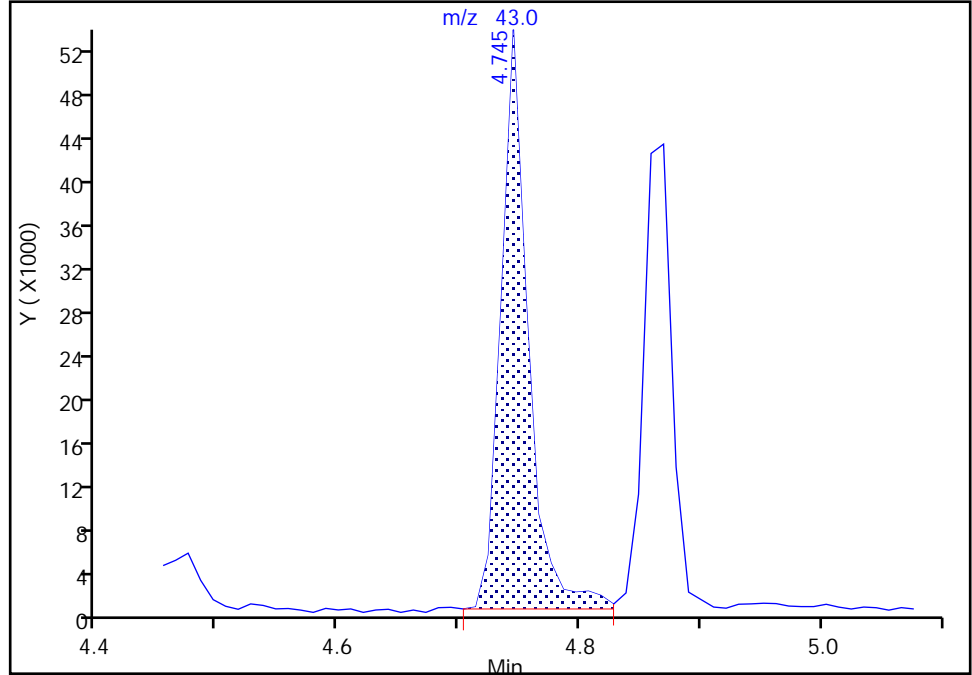
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Injection Date: 09-Jan-2019 15:50:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

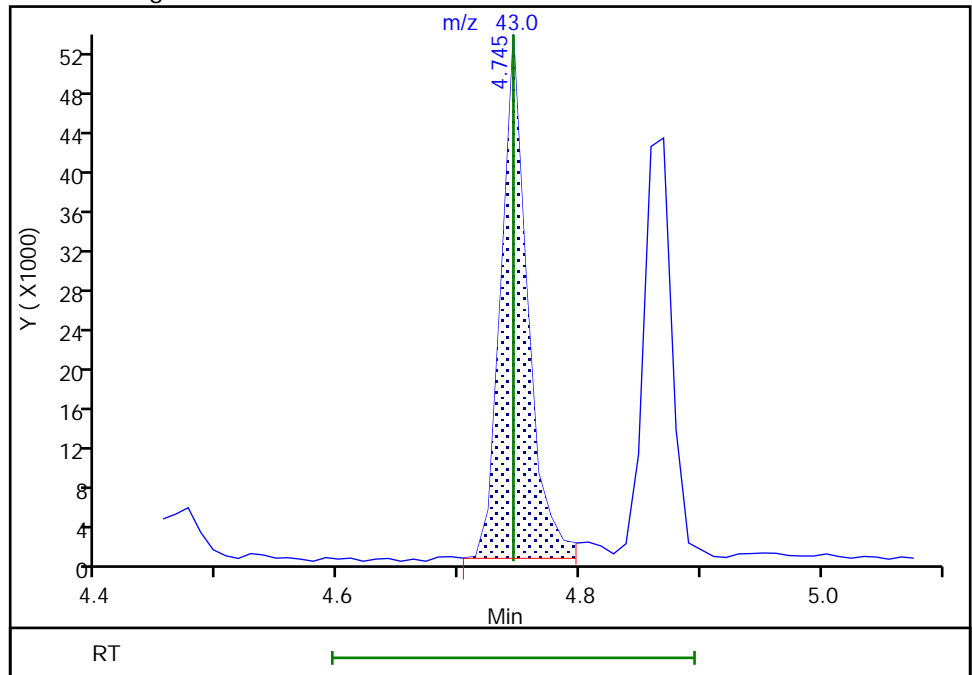
RT: 4.74
Area: 83184
Amount: 110.8312
Amount Units: ug/L

Processing Integration Results



RT: 4.74
Area: 81205
Amount: 110.5544
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:48:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

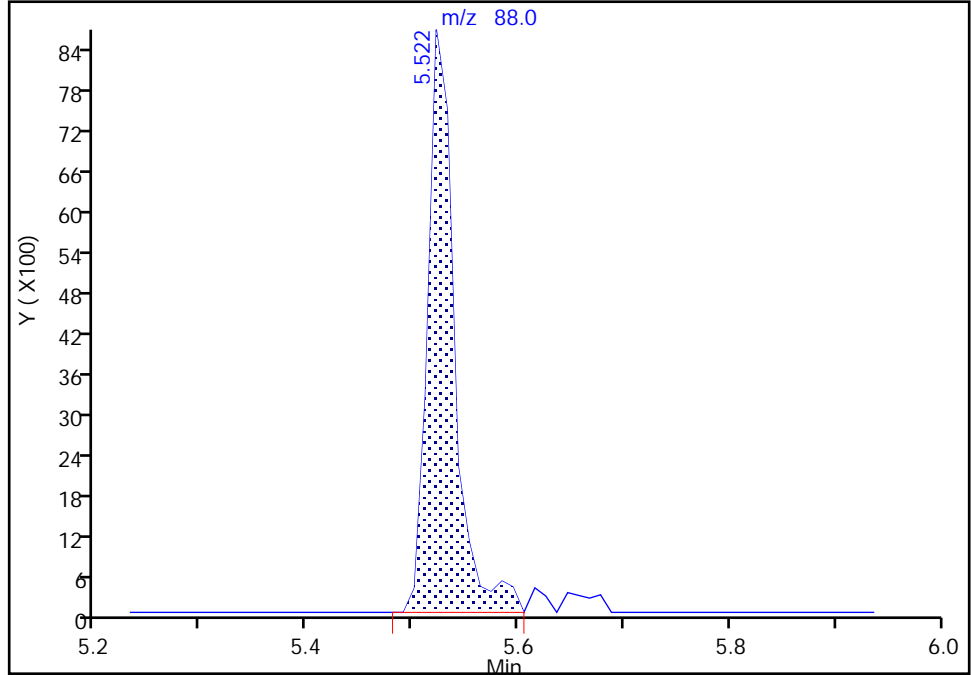
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Injection Date: 09-Jan-2019 15:50:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

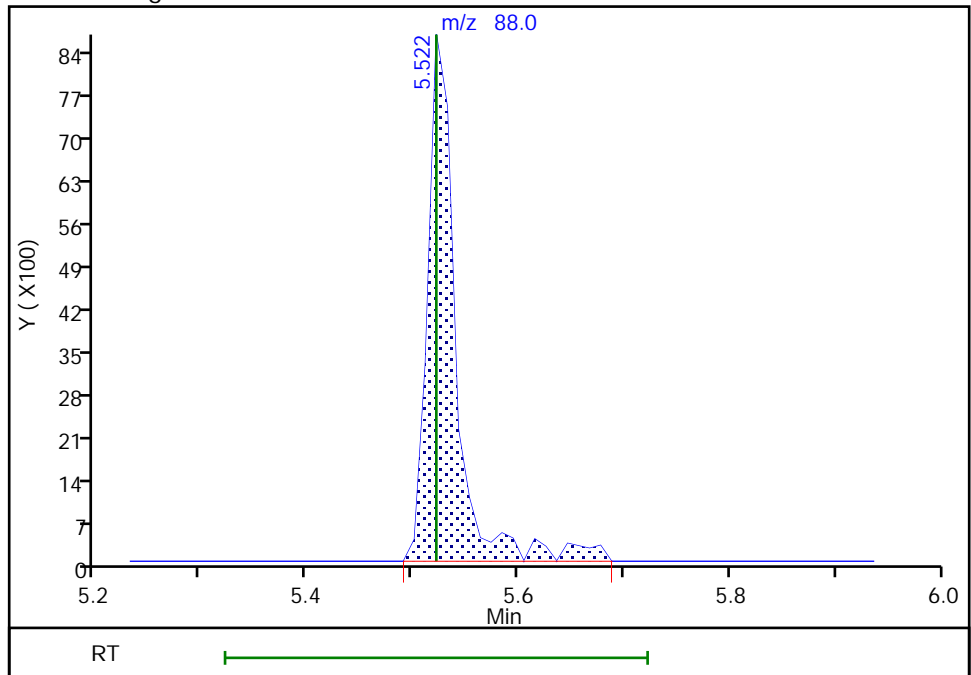
RT: 5.52
Area: 15164
Amount: 103.1018
Amount Units: ug/L

Processing Integration Results



RT: 5.52
Area: 16173
Amount: 104.8481
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:41:00
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3455.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Jan-2019 16:17:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 4
 Misc. Info.: 480-0077863-008
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:07:56 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln

Date: 09-Jan-2019 18:47:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	191141	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	88	362258	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.128	0.001	96	367839	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.475	0.001	93	271476	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	87	171913	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	919915	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	92	281211	25.0	24.6	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	99	119526	10.0	9.29	
12 Chloromethane	50	1.346	1.346	0.000	98	146667	10.0	9.01	
13 Vinyl chloride	62	1.439	1.449	-0.010	97	122126	10.0	9.21	
151 Butadiene	54	1.450	1.449	0.001	94	116706	10.0	8.89	
14 Bromomethane	94	1.729	1.729	0.000	90	84906	10.0	9.26	
15 Chloroethane	64	1.823	1.823	0.001	97	77973	10.0	9.32	
16 Dichlorofluoromethane	67	2.040	2.050	-0.010	94	189650	10.0	8.95	
17 Trichlorofluoromethane	101	2.051	2.050	0.001	71	159845	10.0	9.04	
18 Ethyl ether	59	2.331	2.330	0.001	96	94114	10.0	8.66	
20 Acrolein	56	2.517	2.517	0.000	99	108842	50.0	44.3	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	94	79386	10.0	8.77	
22 1,1-Dichloroethene	96	2.538	2.548	-0.010	96	83005	10.0	8.47	
23 Acetone	43	2.662	2.662	0.000	97	229773	50.0	45.9	M
25 Iodomethane	142	2.704	2.703	0.001	99	172372	10.0	8.84	
26 Carbon disulfide	76	2.735	2.734	0.001	99	265378	10.0	8.17	
28 3-Chloro-1-propene	41	2.890	2.900	-0.010	86	180115	10.0	8.58	
27 Methyl acetate	43	2.942	2.942	0.000	99	228635	20.0	17.3	
30 Methylene Chloride	84	3.025	3.035	-0.010	98	114141	10.0	9.04	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	99	172247	100.0	94.7	M
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	323738	10.0	9.42	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	97	107216	10.0	8.95	
33 Acrylonitrile	53	3.294	3.294	0.000	99	536080	100.0	94.2	
35 Hexane	57	3.408	3.408	0.000	95	118702	10.0	8.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	189425	10.0	8.76	
37 Vinyl acetate	43	3.657	3.657	0.000	98	430020	20.0	18.1	
44 2,2-Dichloropropane	77	4.051	4.061	-0.010	90	98830	10.0	8.68	
45 cis-1,2-Dichloroethene	96	4.082	4.092	-0.010	80	126499	10.0	8.84	
43 2-Butanone (MEK)	43	4.113	4.123	-0.010	99	300669	50.0	44.4	
48 Chlorobromomethane	128	4.289	4.289	0.000	97	66300	10.0	9.09	
49 Tetrahydrofuran	42	4.300	4.299	0.001	88	86677	20.0	17.1	
50 Chloroform	83	4.351	4.351	0.000	96	190625	10.0	8.76	
51 1,1,1-Trichloroethane	97	4.445	4.444	0.001	98	138996	10.0	8.20	
52 Cyclohexane	56	4.445	4.444	0.001	96	154280	10.0	8.58	
55 Carbon tetrachloride	117	4.548	4.558	-0.010	93	105325	10.0	7.91	
54 1,1-Dichloropropene	75	4.559	4.569	-0.010	90	125630	10.0	8.75	
57 Benzene	78	4.735	4.735	0.000	91	393845	10.0	8.79	
53 Isobutyl alcohol	43	4.745	4.745	0.000	93	159653	250.0	226.6	
58 1,2-Dichloroethane	62	4.787	4.786	0.001	97	169716	10.0	9.02	
59 n-Heptane	43	4.859	4.869	-0.010	92	105716	10.0	8.18	
62 Trichloroethene	95	5.222	5.222	0.000	95	101907	10.0	8.57	
64 Methylcyclohexane	83	5.315	5.315	0.000	95	136676	10.0	8.61	
65 1,2-Dichloropropane	63	5.408	5.418	-0.010	90	102034	10.0	8.90	
66 1,4-Dioxane	88	5.522	5.522	0.000	41	30478	200.0	218.3	M
67 Dibromomethane	93	5.522	5.522	0.000	91	69045	10.0	8.92	
68 Dichlorobromomethane	83	5.636	5.636	0.000	97	117606	10.0	8.94	
69 2-Chloroethyl vinyl ether	63	5.844	5.843	0.001	94	60023	10.0	8.81	
72 cis-1,3-Dichloropropene	75	5.958	5.957	0.001	89	134674	10.0	8.99	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	645124	50.0	47.3	
74 Toluene	92	6.175	6.185	-0.010	98	226672	10.0	8.80	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	97	114363	10.0	9.10	
75 Ethyl methacrylate	69	6.414	6.413	0.001	90	112336	10.0	9.30	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	94	70357	10.0	9.15	
81 Tetrachloroethene	166	6.590	6.590	0.000	95	93886	10.0	8.44	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	96	139519	10.0	9.36	
80 2-Hexanone	43	6.704	6.703	0.001	99	395010	50.0	46.1	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	76079	10.0	9.06	
84 Ethylene Dibromide	107	6.932	6.931	0.001	99	84891	10.0	9.16	
87 Chlorobenzene	112	7.284	7.284	0.000	94	259134	10.0	8.64	
88 Ethylbenzene	91	7.336	7.346	-0.010	98	424320	10.0	8.66	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.356	-0.010	90	88985	10.0	9.00	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	96	170600	10.0	8.65	
91 o-Xylene	106	7.750	7.750	0.000	98	179024	10.0	8.58	
92 Styrene	104	7.771	7.771	0.000	95	275886	10.0	8.99	
95 Bromoform	173	7.968	7.978	-0.010	94	40059	10.0	8.20	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	448067	10.0	8.90	
101 Bromobenzene	156	8.320	8.320	0.000	94	117401	10.0	9.22	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	96	114895	10.0	9.15	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	491306	10.0	8.89	
98 trans-1,4-Dichloro-2-buten	53	8.383	8.382	0.001	71	30954	10.0	8.23	
100 1,2,3-Trichloropropane	110	8.383	8.382	0.001	93	41647	10.0	9.70	
103 2-Chlorotoluene	126	8.455	8.455	0.000	96	113768	10.0	8.77	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	95	378199	10.0	9.02	
105 4-Chlorotoluene	126	8.548	8.548	0.000	98	112854	10.0	8.84	
106 tert-Butylbenzene	134	8.766	8.766	0.000	93	77880	10.0	8.36	
107 1,2,4-Trimethylbenzene	105	8.807	8.807	0.000	98	404805	10.0	9.15	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	95	441433	10.0	8.89	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	378206	10.0	8.66	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	230110	10.0	8.80	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	94	236145	10.0	8.92	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	322186	10.0	8.63	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	96	232461	10.0	8.95	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	74	21056	10.0	9.17	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	94	165308	10.0	8.76	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	97	57791	10.0	8.26	
121 Naphthalene	128	10.994	10.994	0.000	97	498468	10.0	9.42	
122 1,2,3-Trichlorobenzene	180	11.181	11.180	0.001	95	159846	10.0	8.87	
S 124 Xylenes, Total	1				0			17.2	
S 125 1,2-Dichloroethene, Total	1				0			17.8	
S 126 1,3-Dichloropropene, Total	1				0			18.1	
S 123 Total BTEX	1				0			43.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144

Amount Added: 5.00

Units: uL

GAS CORP mix_00321

Amount Added: 5.00

Units: uL

C_8260_IS_00127

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00143

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3455.D

Injection Date: 09-Jan-2019 16:17:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: IC 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

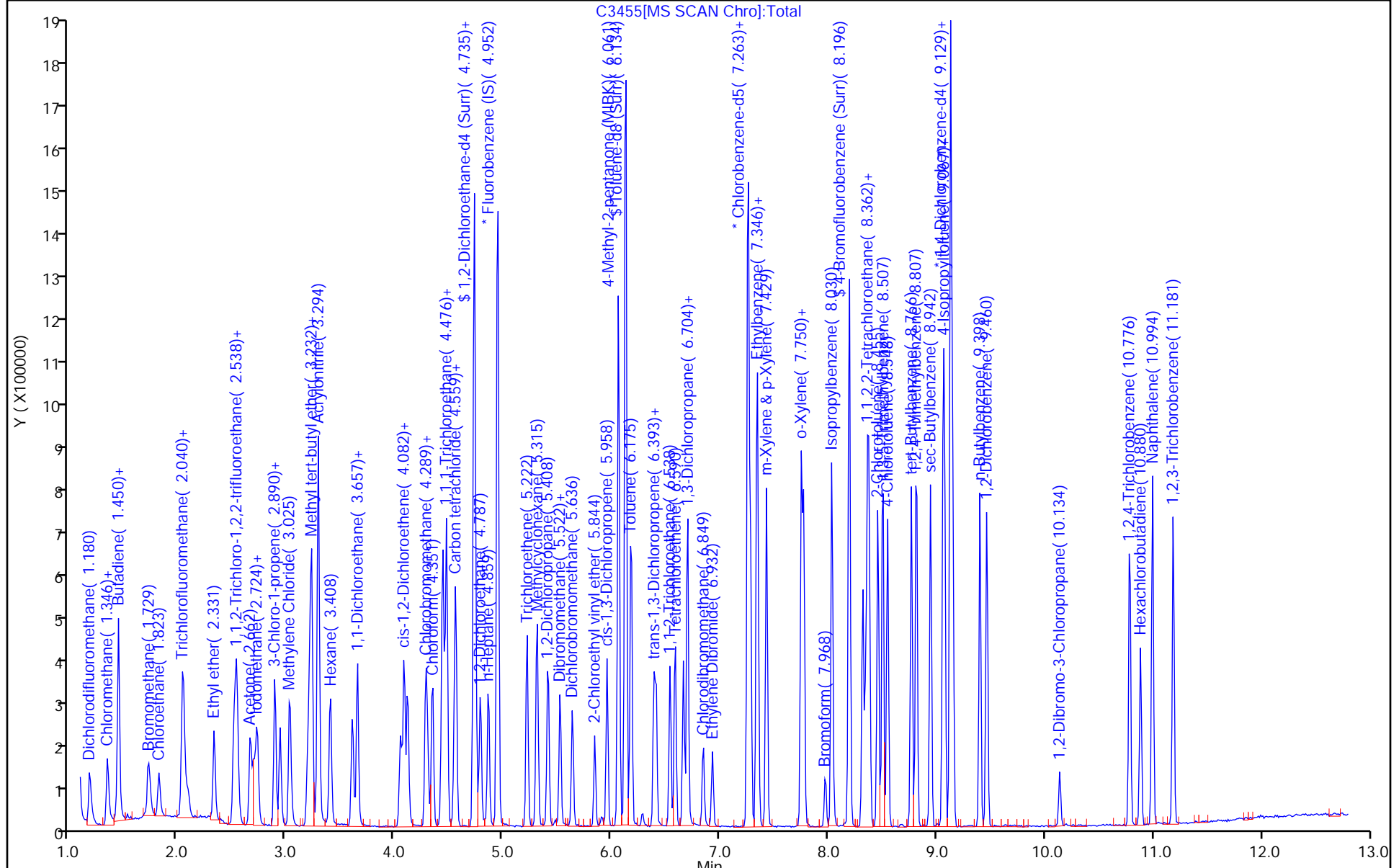
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

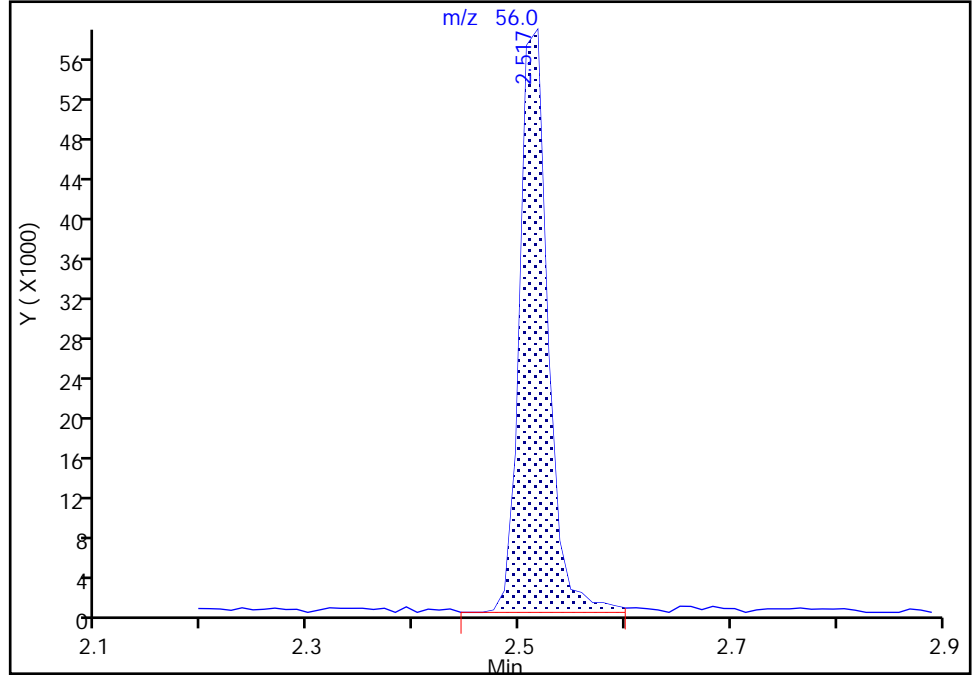
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Injection Date: 09-Jan-2019 16:17:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: KN ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

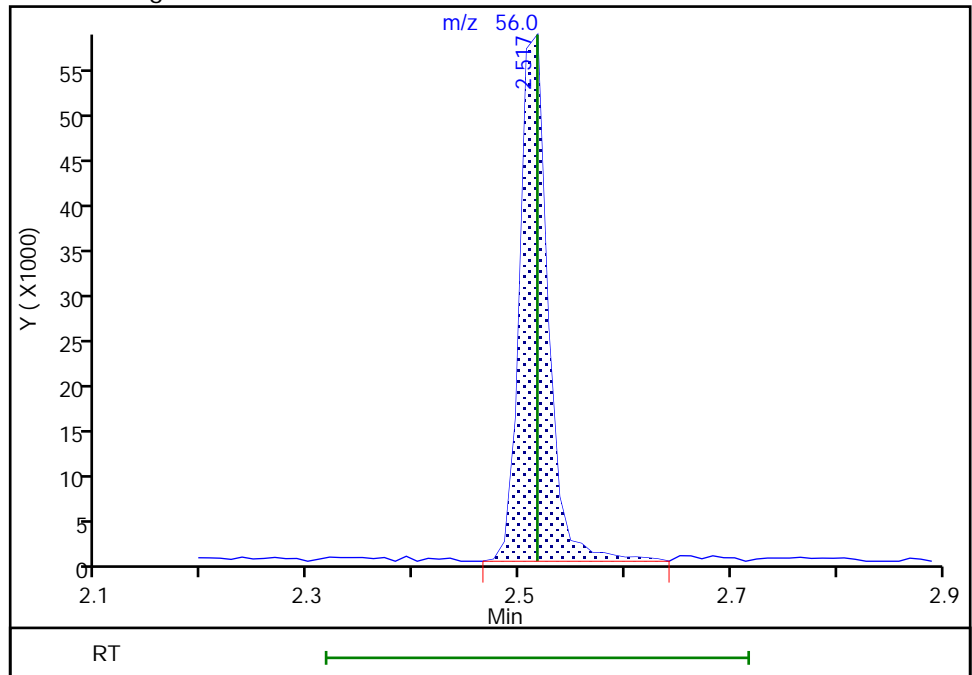
RT: 2.52
Area: 108168
Amount: 47.689444
Amount Units: ug/L

Processing Integration Results



RT: 2.52
Area: 108842
Amount: 44.287378
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:45:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

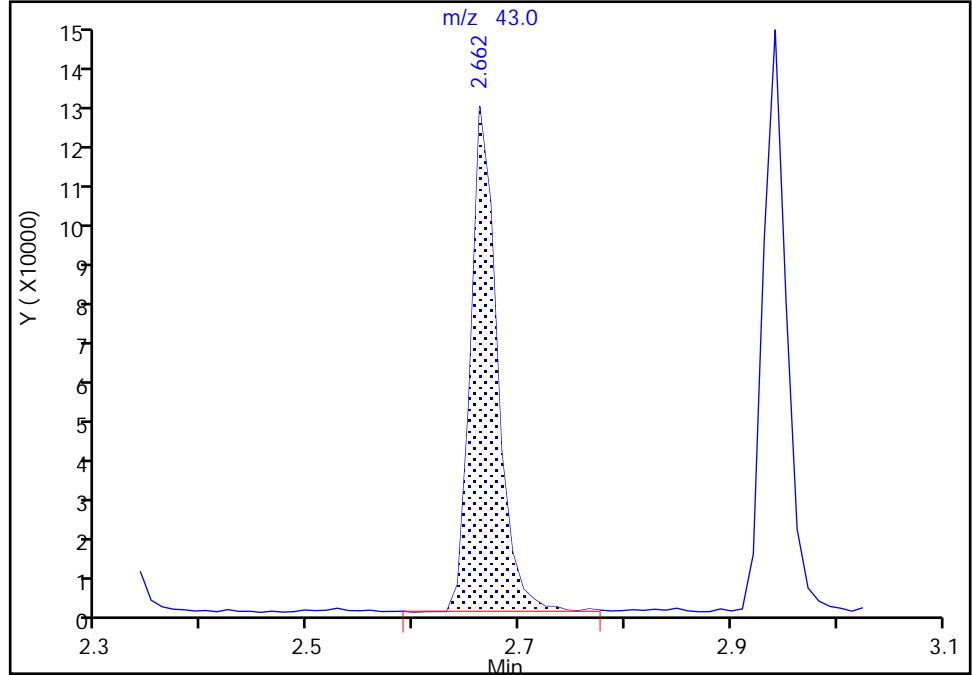
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Injection Date: 09-Jan-2019 16:17:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: KN ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

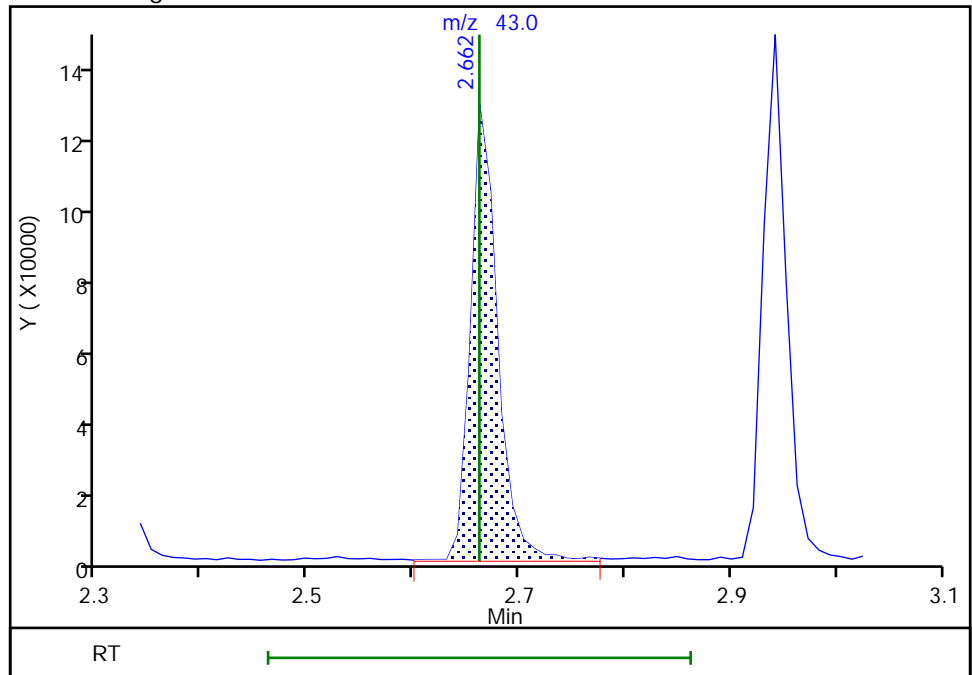
RT: 2.66
Area: 223655
Amount: 42.501107
Amount Units: ug/L

Processing Integration Results



RT: 2.66
Area: 229773
Amount: 45.864543
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:03:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

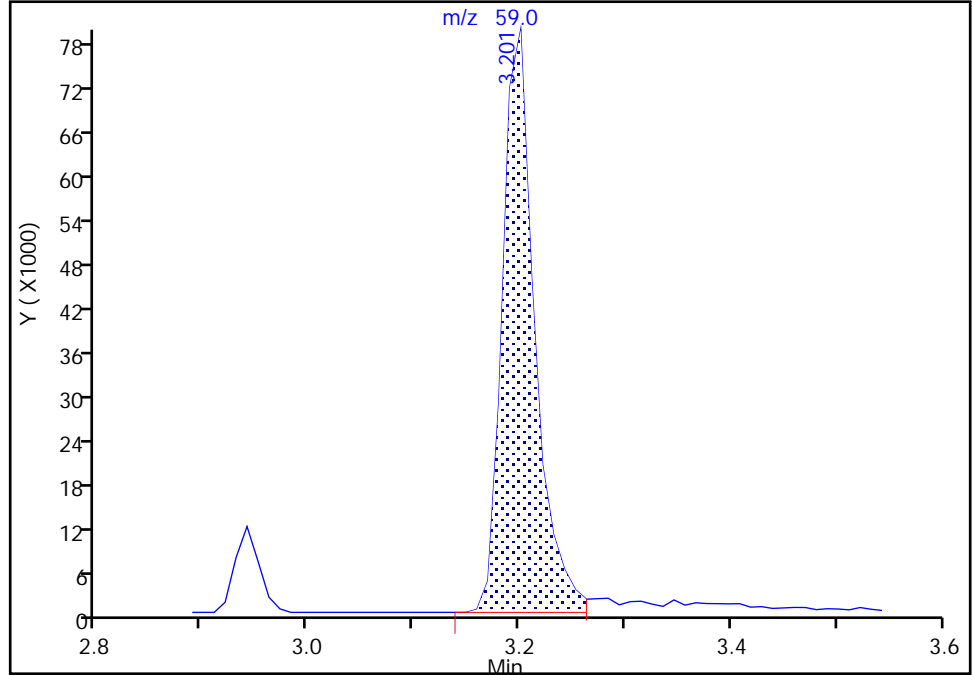
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Injection Date: 09-Jan-2019 16:17:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: KN ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

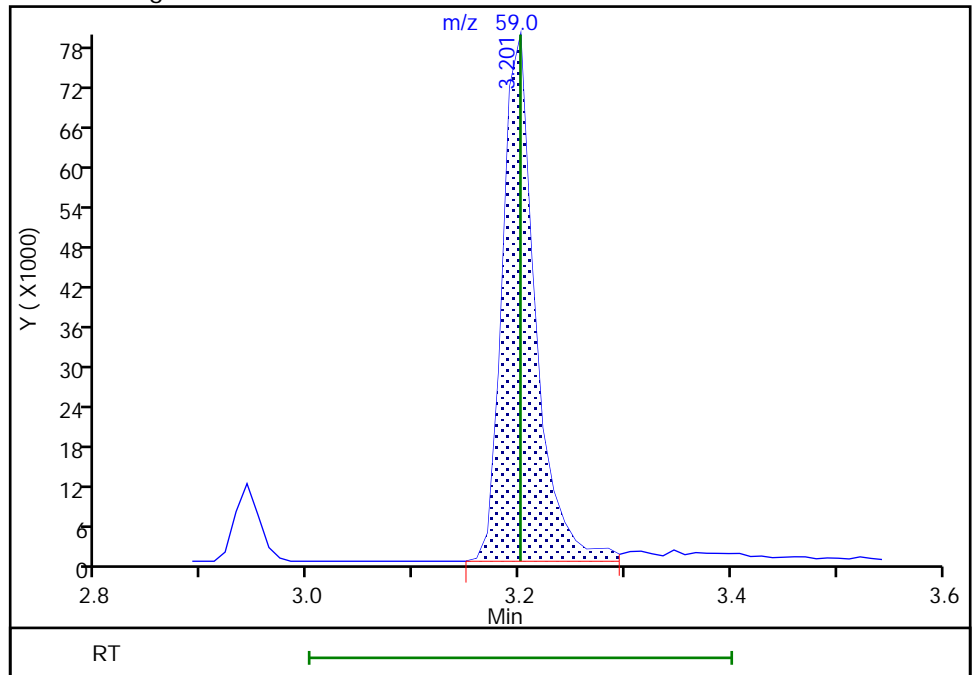
RT: 3.20
Area: 169257
Amount: 93.584814
Amount Units: ug/L

Processing Integration Results



RT: 3.20
Area: 172247
Amount: 94.723954
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:46:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

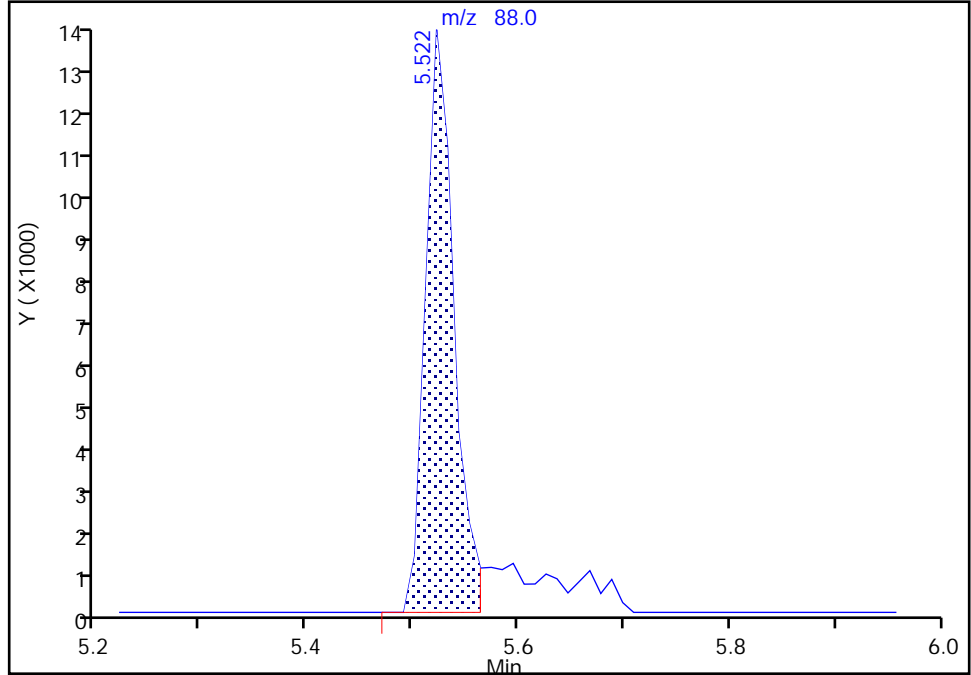
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Injection Date: 09-Jan-2019 16:17:30 Instrument ID: HP5973C
Lims ID: IC 4
Client ID:
Operator ID: KN ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

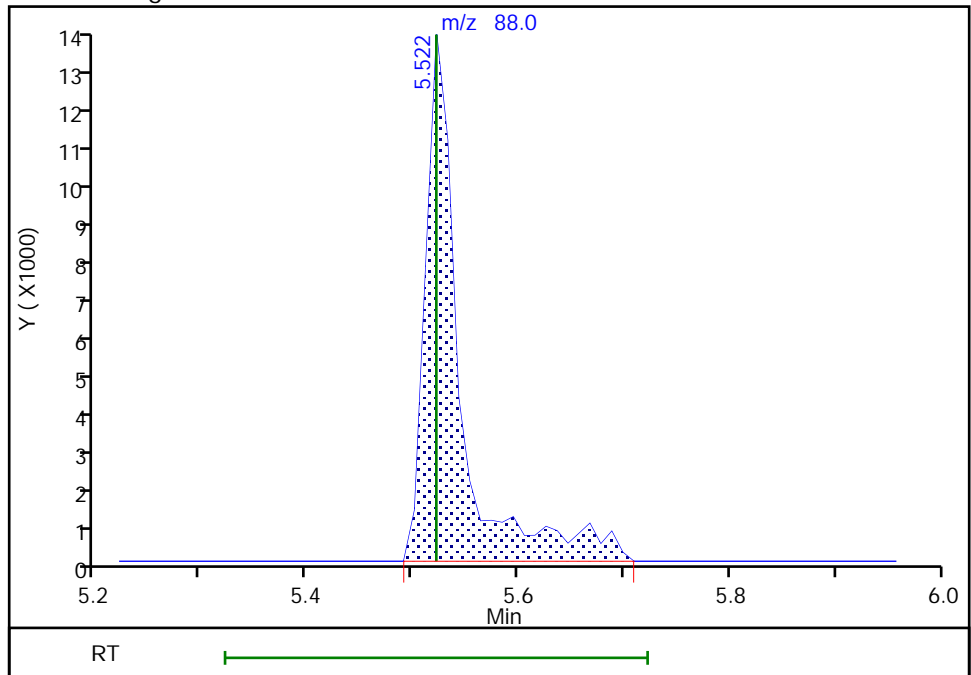
RT: 5.52
Area: 24575
Amount: 182.9972
Amount Units: ug/L

Processing Integration Results



RT: 5.52
Area: 30478
Amount: 218.2545
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:47:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3456.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 09-Jan-2019 16:44:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis 5
 Misc. Info.: 480-0077863-009
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:08:11 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: nowakk

Date: 10-Jan-2019 10:02:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	196239	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	85	379825	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	72	384966	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	65	274943	25.0	24.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	53	171397	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	91	980316	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	90	303140	25.0	25.3	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	97	281313	25.0	21.3	
12 Chloromethane	50	1.346	1.346	0.000	88	373074	25.0	22.3	
13 Vinyl chloride	62	1.439	1.439	0.000	98	311059	25.0	22.9	
151 Butadiene	54	1.450	1.450	0.000	95	279328	25.0	20.7	
14 Bromomethane	94	1.729	1.729	0.000	92	211724	25.0	22.5	
15 Chloroethane	64	1.823	1.823	0.000	94	190157	25.0	22.1	
16 Dichlorofluoromethane	67	2.040	2.040	0.000	81	476713	25.0	21.9	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	62	399019	25.0	22.0	
18 Ethyl ether	59	2.331	2.331	0.000	95	259127	25.0	23.2	
20 Acrolein	56	2.507	2.507	0.000	93	293159	125.0	116.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	76	198946	25.0	21.4	
22 1,1-Dichloroethene	96	2.538	2.538	0.000	87	220250	25.0	21.9	
23 Acetone	43	2.662	2.662	0.000	98	614134	125.0	119.4	M
25 Iodomethane	142	2.704	2.704	0.000	99	458987	25.0	22.9	
26 Carbon disulfide	76	2.735	2.735	0.000	99	704806	25.0	21.1	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	85	486281	25.0	22.6	
27 Methyl acetate	43	2.942	2.942	0.000	96	649116	50.0	47.8	
30 Methylene Chloride	84	3.035	3.035	0.000	91	287048	25.0	22.1	
31 2-Methyl-2-propanol	59	3.191	3.191	0.000	96	454305	250.0	243.3	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	94	833946	25.0	23.6	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	91	269784	25.0	21.9	
33 Acrylonitrile	53	3.294	3.294	0.000	99	1412200	250.0	241.8	
35 Hexane	57	3.408	3.408	0.000	93	307872	25.0	21.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	86	501177	25.0	22.6	
37 Vinyl acetate	43	3.657	3.657	0.000	97	1250047	50.0	51.2	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	90	248359	25.0	21.3	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	71	321558	25.0	21.9	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	93	889916	125.0	128.1	
48 Chlorobromomethane	128	4.289	4.289	0.000	92	175308	25.0	23.4	
49 Tetrahydrofuran	42	4.299	4.299	0.000	91	246379	50.0	47.4	
50 Chloroform	83	4.351	4.351	0.000	71	499852	25.0	22.4	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.000	88	377179	25.0	21.7	
52 Cyclohexane	56	4.445	4.445	0.000	92	407083	25.0	22.1	
55 Carbon tetrachloride	117	4.548	4.548	0.000	81	298075	25.0	21.8	
54 1,1-Dichloropropene	75	4.559	4.559	0.000	86	337325	25.0	22.9	
57 Benzene	78	4.735	4.735	0.000	96	1079521	25.0	23.5	
53 Isobutyl alcohol	43	4.745	4.745	0.000	91	467786	625.0	646.7	
58 1,2-Dichloroethane	62	4.787	4.787	0.000	59	456333	25.0	23.6	
59 n-Heptane	43	4.859	4.859	0.000	94	296518	25.0	22.3	
62 Trichloroethene	95	5.222	5.222	0.000	91	276176	25.0	22.6	
64 Methylcyclohexane	83	5.315	5.315	0.000	95	364777	25.0	22.4	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	86	277319	25.0	23.6	
66 1,4-Dioxane	88	5.522	5.522	0.000	45	76141	500.0	520.0	
67 Dibromomethane	93	5.522	5.522	0.000	92	193725	25.0	24.4	
68 Dichlorobromomethane	83	5.636	5.636	0.000	91	342978	25.0	25.4	
69 2-Chloroethyl vinyl ether	63	5.844	5.844	0.000	93	185896	25.0	26.6	
72 cis-1,3-Dichloropropene	75	5.958	5.958	0.000	84	410087	25.0	26.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	1830643	125.0	128.1	
74 Toluene	92	6.175	6.175	0.000	91	636360	25.0	23.6	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	93	365169	25.0	27.7	
75 Ethyl methacrylate	69	6.414	6.414	0.000	90	330262	25.0	26.1	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	89	203590	25.0	25.3	
81 Tetrachloroethene	166	6.590	6.590	0.000	79	275167	25.0	23.6	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	95	414776	25.0	26.5	
80 2-Hexanone	43	6.704	6.704	0.000	98	1190764	125.0	132.7	
83 Chlorodibromomethane	129	6.849	6.849	0.000	89	239859	25.0	27.2	
84 Ethylene Dibromide	107	6.932	6.932	0.000	98	261048	25.0	26.9	
87 Chlorobenzene	112	7.284	7.284	0.000	95	759430	25.0	24.1	
88 Ethylbenzene	91	7.336	7.336	0.000	57	1223170	25.0	23.8	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	41	258536	25.0	24.9	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	96	492779	25.0	23.8	
91 o-Xylene	106	7.750	7.750	0.000	98	507130	25.0	23.2	
92 Styrene	104	7.771	7.771	0.000	95	809217	25.0	25.2	
95 Bromoform	173	7.968	7.968	0.000	93	133432	25.0	26.0	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1262003	25.0	24.0	
101 Bromobenzene	156	8.320	8.320	0.000	94	329454	25.0	24.7	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	90	343606	25.0	26.2	
99 N-Propylbenzene	91	8.362	8.362	0.000	78	1399154	25.0	24.2	
98 trans-1,4-Dichloro-2-buten	53	8.383	8.383	0.000	40	105597	25.0	26.8	
100 1,2,3-Trichloropropane	110	8.383	8.383	0.000	64	114072	25.0	25.4	
103 2-Chlorotoluene	126	8.455	8.455	0.000	95	311901	25.0	23.0	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	55	1081013	25.0	24.6	
105 4-Chlorotoluene	126	8.548	8.548	0.000	80	321294	25.0	24.0	
106 tert-Butylbenzene	134	8.766	8.766	0.000	93	238888	25.0	24.5	
107 1,2,4-Trimethylbenzene	105	8.818	8.818	0.000	97	1137846	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	95	1261691	25.0	24.3	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	1103018	25.0	24.1	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	635182	25.0	23.2	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	94	664374	25.0	24.0	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	917969	25.0	23.5	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	94	649150	25.0	23.9	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	72	59455	25.0	24.7	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	94	446821	25.0	22.6	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	94	160393	25.0	21.9	
121 Naphthalene	128	10.994	10.994	0.000	97	1358632	25.0	24.5	
122 1,2,3-Trichlorobenzene	180	11.181	11.181	0.000	93	430399	25.0	22.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 12.50	Units: uL	
GAS CORP mix_00321	Amount Added: 12.50	Units: uL	
C_8260_IS_00127	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00143	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3456.D

Injection Date: 09-Jan-2019 16:44:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: ICIS 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

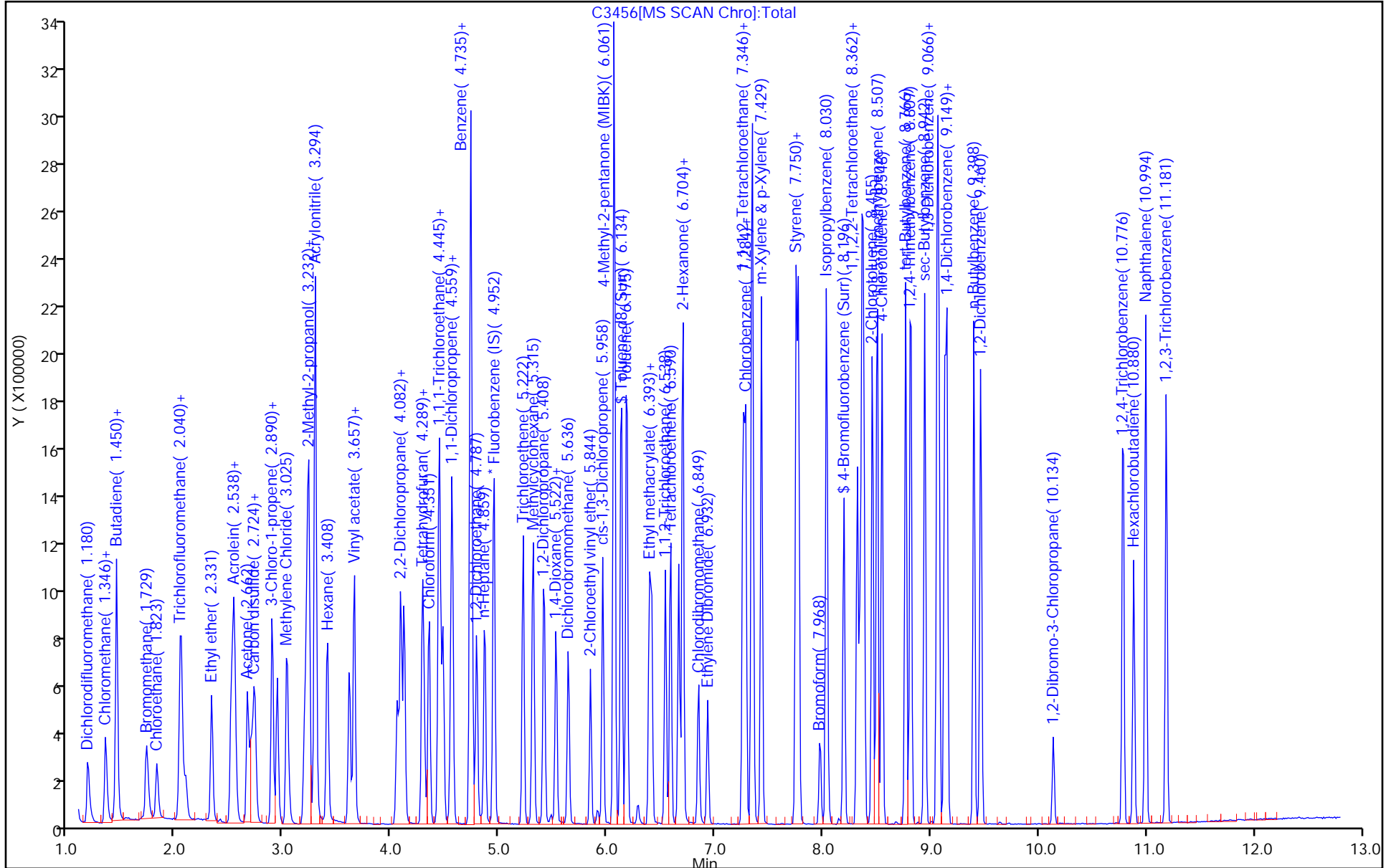
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

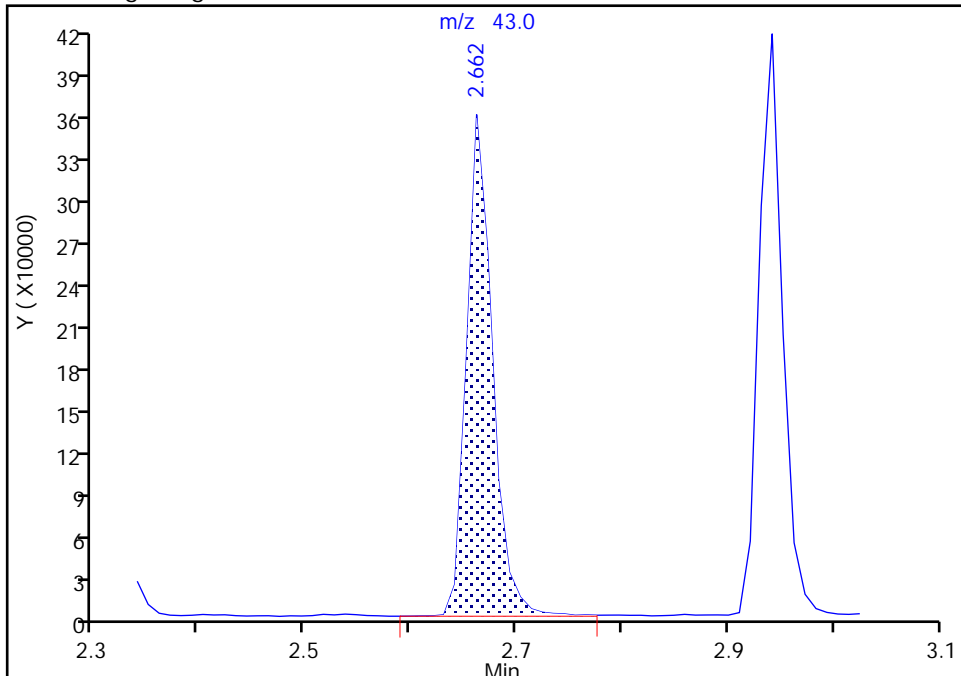
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Injection Date: 09-Jan-2019 16:44:30 Instrument ID: HP5973C
Lims ID: ICIS 5
Client ID:
Operator ID: KN ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

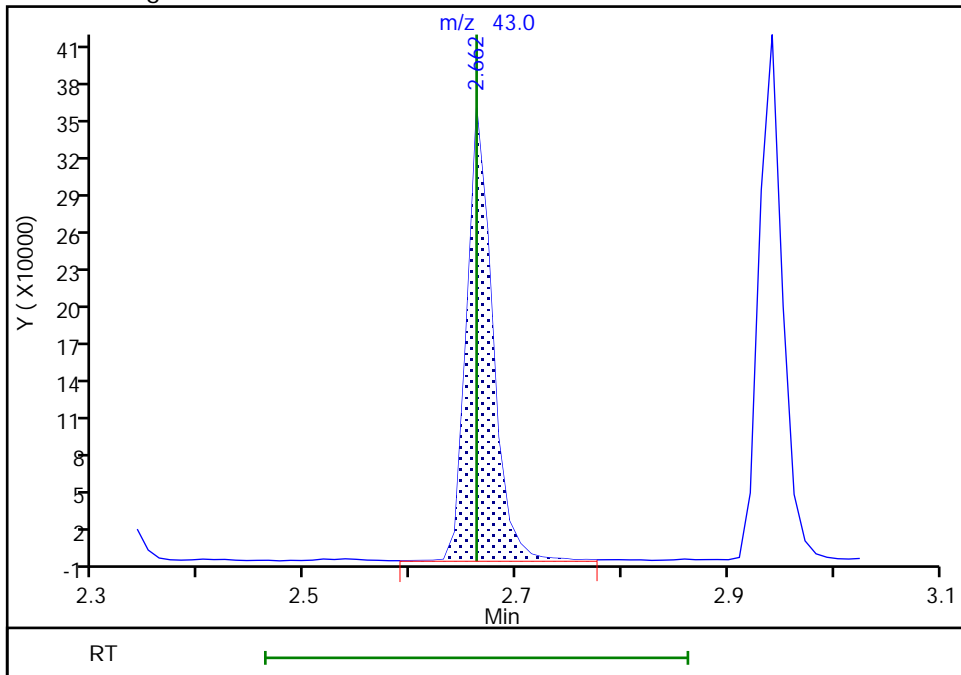
RT: 2.66
Area: 609042
Amount: 112.4028
Amount Units: ug/L

Processing Integration Results



RT: 2.66
Area: 614134
Amount: 119.4015
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:03:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 476 of 605

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3457.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Jan-2019 17:11:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 6
 Misc. Info.: 480-0077863-010
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:08:23 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln Date: 09-Jan-2019 18:52:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	98	195353	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	86	392748	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.129	-0.001	96	385582	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.476	-0.001	94	283485	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	-0.001	48	169070	25.0	24.7	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1004203	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	90	303431	25.0	24.5	
10 Dichlorodifluoromethane	85	1.190	1.180	0.010	99	720512	50.0	54.8	
12 Chloromethane	50	1.346	1.346	0.000	99	842367	50.0	50.6	M
13 Vinyl chloride	62	1.449	1.439	0.010	98	720135	50.0	53.2	
151 Butadiene	54	1.449	1.450	-0.001	97	670893	50.0	50.0	
14 Bromomethane	94	1.729	1.729	0.000	92	447345	50.0	47.7	
15 Chloroethane	64	1.822	1.823	-0.001	98	424950	50.0	49.7	
16 Dichlorofluoromethane	67	2.050	2.040	0.010	94	1032469	50.0	47.7	
17 Trichlorofluoromethane	101	2.050	2.051	-0.001	78	980463	50.0	54.3	
18 Ethyl ether	59	2.330	2.331	-0.001	96	542141	50.0	48.8	
20 Acrolein	56	2.517	2.507	0.010	99	596629	250.0	237.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	94	485341	50.0	52.5	
22 1,1-Dichloroethene	96	2.548	2.538	0.010	95	508758	50.0	50.8	
23 Acetone	43	2.662	2.662	0.000	98	1235257	250.0	241.3	
25 Iodomethane	142	2.703	2.704	-0.001	99	985988	50.0	49.5	
26 Carbon disulfide	76	2.734	2.735	-0.001	99	1600211	50.0	48.2	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	86	1076508	50.0	50.2	
27 Methyl acetate	43	2.942	2.942	0.000	99	1321439	100.0	97.8	
30 Methylene Chloride	84	3.035	3.035	0.000	99	632671	50.0	49.0	
31 2-Methyl-2-propanol	59	3.190	3.191	-0.001	97	960159	500.0	516.6	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	1777029	50.0	50.6	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	97	624753	50.0	51.0	
33 Acrylonitrile	53	3.294	3.294	0.000	99	2915832	500.0	501.5	
35 Hexane	57	3.408	3.408	0.000	95	705775	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	1104685	50.0	50.0	
37 Vinyl acetate	43	3.657	3.657	0.000	98	2647111	100.0	109.0	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	90	564592	50.0	48.5	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	81	722194	50.0	49.4	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	99	1790180	250.0	258.8	
48 Chlorobromomethane	128	4.289	4.289	0.000	97	377808	50.0	50.7	
49 Tetrahydrofuran	42	4.299	4.299	0.000	90	490307	100.0	94.9	
50 Chloroform	83	4.351	4.351	0.000	96	1099071	50.0	49.4	
52 Cyclohexane	56	4.444	4.445	-0.001	96	978540	50.0	53.2	
51 1,1,1-Trichloroethane	97	4.444	4.445	-0.001	98	867452	50.0	50.0	
55 Carbon tetrachloride	117	4.558	4.548	0.010	94	727164	50.0	53.4	
54 1,1-Dichloropropene	75	4.569	4.559	0.010	90	769710	50.0	52.5	
57 Benzene	78	4.735	4.735	-0.001	97	2319721	50.0	50.7	
53 Isobutyl alcohol	43	4.745	4.745	0.000	93	972227	1250.0	1350.2	
58 1,2-Dichloroethane	62	4.786	4.787	-0.001	97	955281	50.0	49.7	
59 n-Heptane	43	4.859	4.859	0.000	97	674290	50.0	51.0	
62 Trichloroethene	95	5.222	5.222	0.000	94	621378	50.0	51.1	
64 Methylcyclohexane	83	5.315	5.315	0.000	95	864352	50.0	53.3	
65 1,2-Dichloropropane	63	5.418	5.408	0.010	89	594821	50.0	50.8	
67 Dibromomethane	93	5.522	5.522	0.000	96	428292	50.0	54.2	
66 1,4-Dioxane	88	5.522	5.522	0.000	43	154176	1000.0	1018.4	M
68 Dichlorobromomethane	83	5.636	5.636	0.000	97	778277	50.0	57.9	
69 2-Chloroethyl vinyl ether	63	5.843	5.844	-0.001	95	385499	50.0	55.3	
72 cis-1,3-Dichloropropene	75	5.957	5.958	-0.001	90	909495	50.0	59.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	3783491	250.0	256.0	
74 Toluene	92	6.185	6.175	0.010	98	1393974	50.0	49.9	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	98	815933	50.0	59.9	
75 Ethyl methacrylate	69	6.413	6.414	-0.001	90	714211	50.0	54.6	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	93	432302	50.0	51.9	
81 Tetrachloroethene	166	6.589	6.590	-0.001	95	617367	50.0	51.2	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	96	864420	50.0	53.5	
80 2-Hexanone	43	6.703	6.704	-0.001	99	2389973	250.0	257.5	
83 Chlorodibromomethane	129	6.849	6.849	0.000	91	555864	50.0	61.0	
84 Ethylene Dibromide	107	6.931	6.932	-0.001	99	563557	50.0	56.1	
87 Chlorobenzene	112	7.284	7.284	0.000	94	1649035	50.0	50.7	
88 Ethylbenzene	91	7.346	7.336	0.010	98	2672417	50.0	50.3	
89 1,1,1,2-Tetrachloroethane	131	7.356	7.346	0.010	93	612589	50.0	57.1	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	96	1077749	50.0	50.4	
91 o-Xylene	106	7.750	7.750	0.000	98	1120319	50.0	49.5	
92 Styrene	104	7.771	7.771	0.000	95	1775423	50.0	53.4	
95 Bromoform	173	7.968	7.968	0.000	95	322989	50.0	61.0	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	2778740	50.0	52.7	
101 Bromobenzene	156	8.320	8.320	0.000	94	715553	50.0	53.6	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	97	727409	50.0	55.3	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	3021836	50.0	52.2	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.383	-0.001	73	222174	50.0	56.4	
100 1,2,3-Trichloropropane	110	8.382	8.383	-0.001	91	240380	50.0	53.4	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	689971	50.0	50.8	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	95	2337242	50.0	53.2	
105 4-Chlorotoluene	126	8.548	8.548	0.000	98	694468	50.0	51.9	
106 tert-Butylbenzene	134	8.766	8.766	0.000	93	525680	50.0	53.9	
107 1,2,4-Trimethylbenzene	105	8.818	8.818	0.000	98	2479775	50.0	53.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	95	2743479	50.0	52.7	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	2431384	50.0	53.1	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	1384469	50.0	50.5	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	94	1417841	50.0	51.1	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	2021122	50.0	51.7	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	97	1399364	50.0	51.4	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	79	134874	50.0	56.0	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	94	981336	50.0	49.6	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	96	359185	50.0	49.0	
121 Naphthalene	128	10.994	10.994	0.000	97	2943112	50.0	53.1	
122 1,2,3-Trichlorobenzene	180	11.180	11.181	-0.001	95	919706	50.0	48.7	
S 124 Xylenes, Total	1				0			99.9	
S 125 1,2-Dichloroethene, Total	1				0			100.4	
S 126 1,3-Dichloropropene, Total	1				0			119.3	
S 123 Total BTEX	1				0			250.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144

Amount Added: 25.00

Units: uL

GAS CORP mix_00321

Amount Added: 25.00

Units: uL

C_8260_IS_00127

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00143

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3457.D

Injection Date: 09-Jan-2019 17:11:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

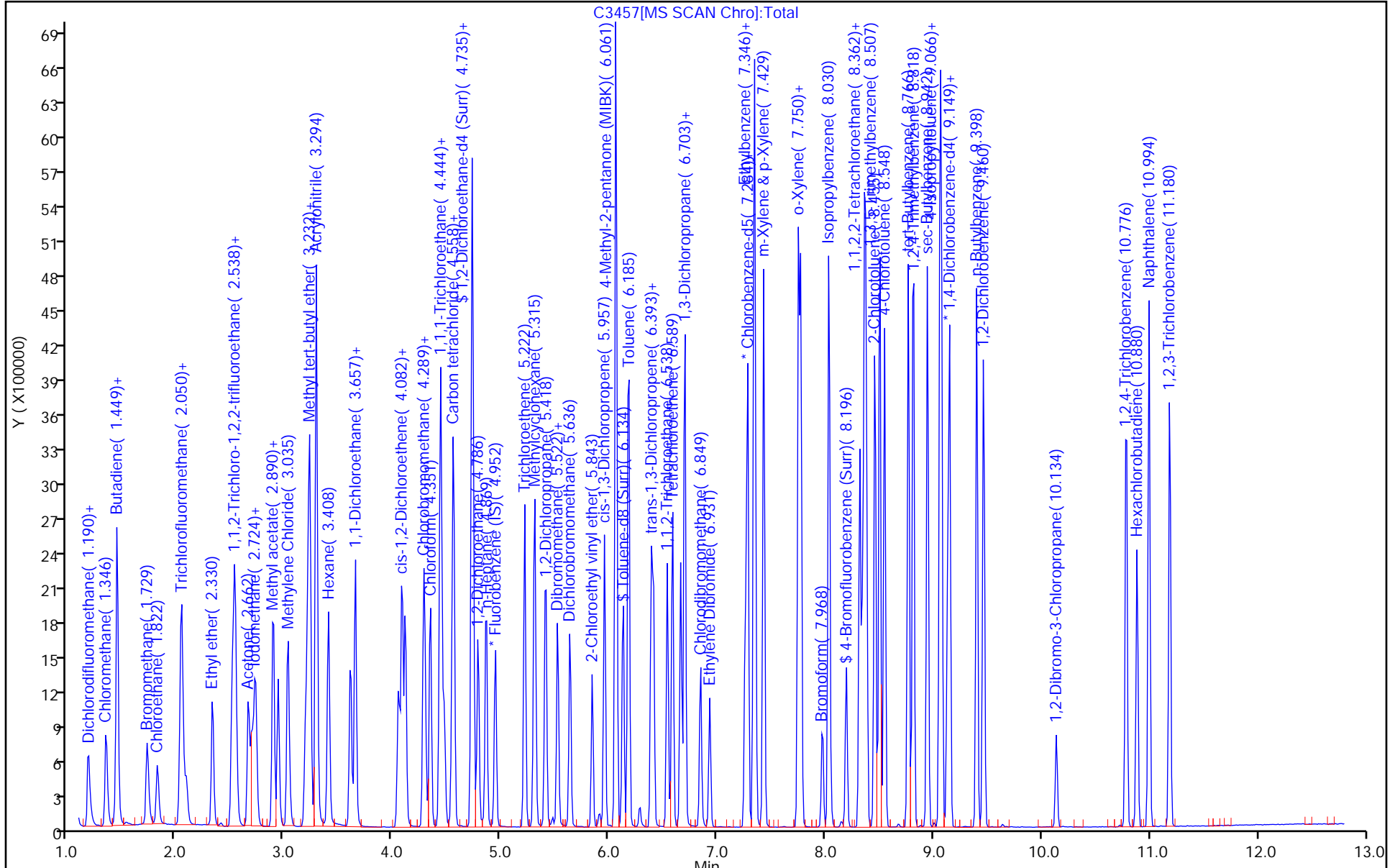
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

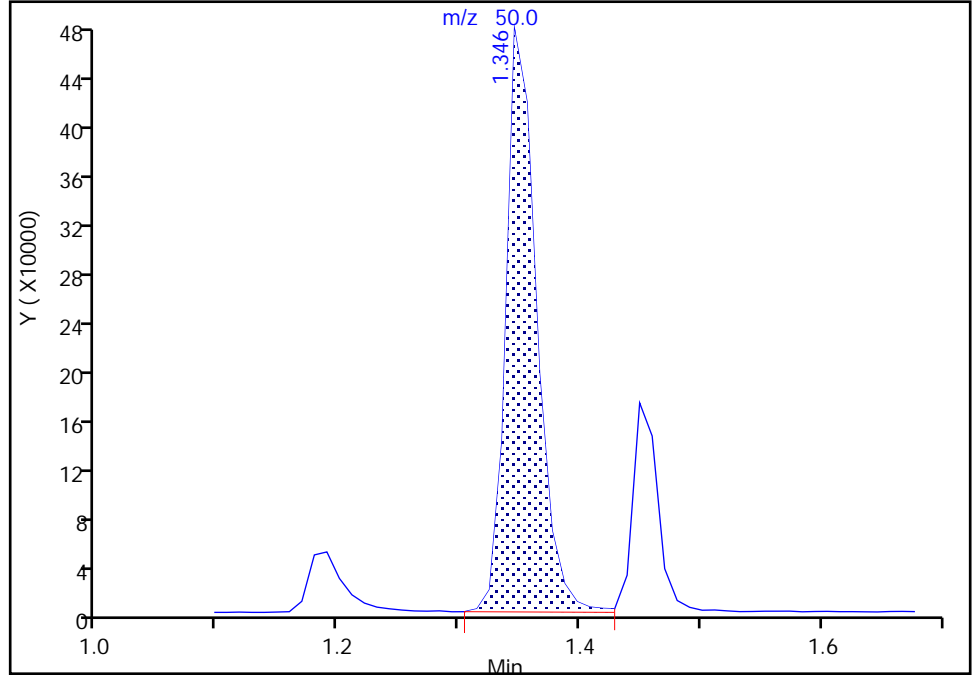
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Injection Date: 09-Jan-2019 17:11:30 Instrument ID: HP5973C
Lims ID: IC 6
Client ID:
Operator ID: KN ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

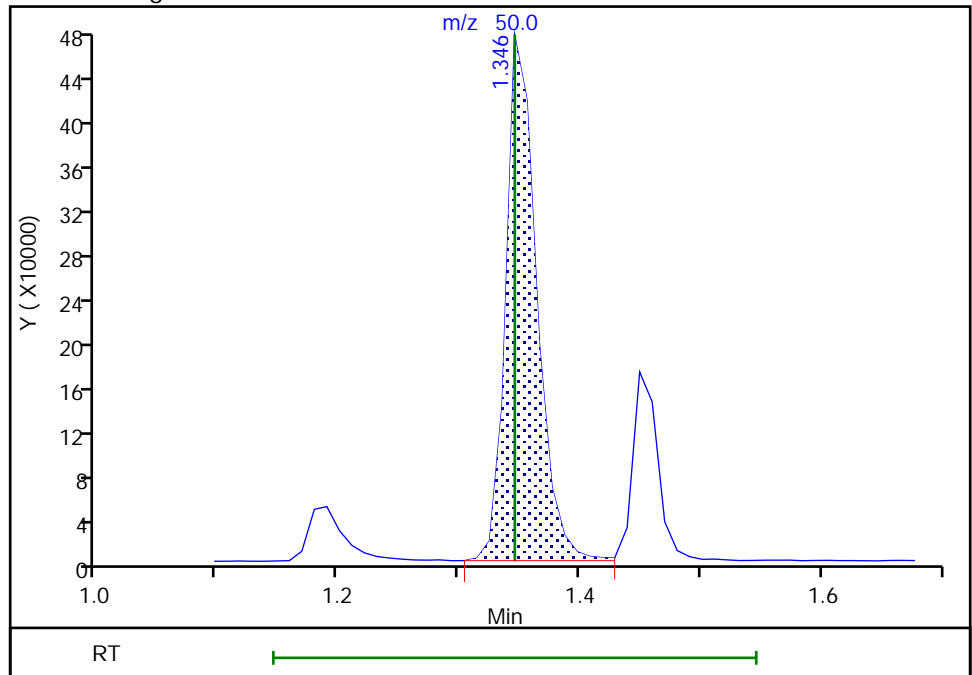
RT: 1.35
Area: 844558
Amount: 48.471662
Amount Units: ug/L

Processing Integration Results



RT: 1.35
Area: 842367
Amount: 50.628423
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:51:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

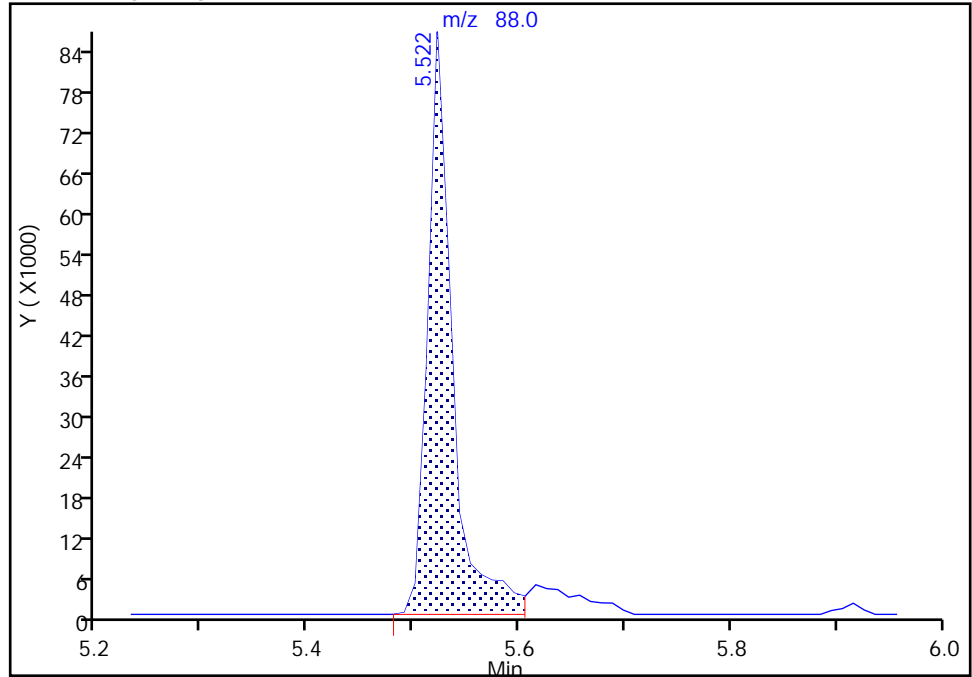
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Injection Date: 09-Jan-2019 17:11:30 Instrument ID: HP5973C
Lims ID: IC 6
Client ID:
Operator ID: KN ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

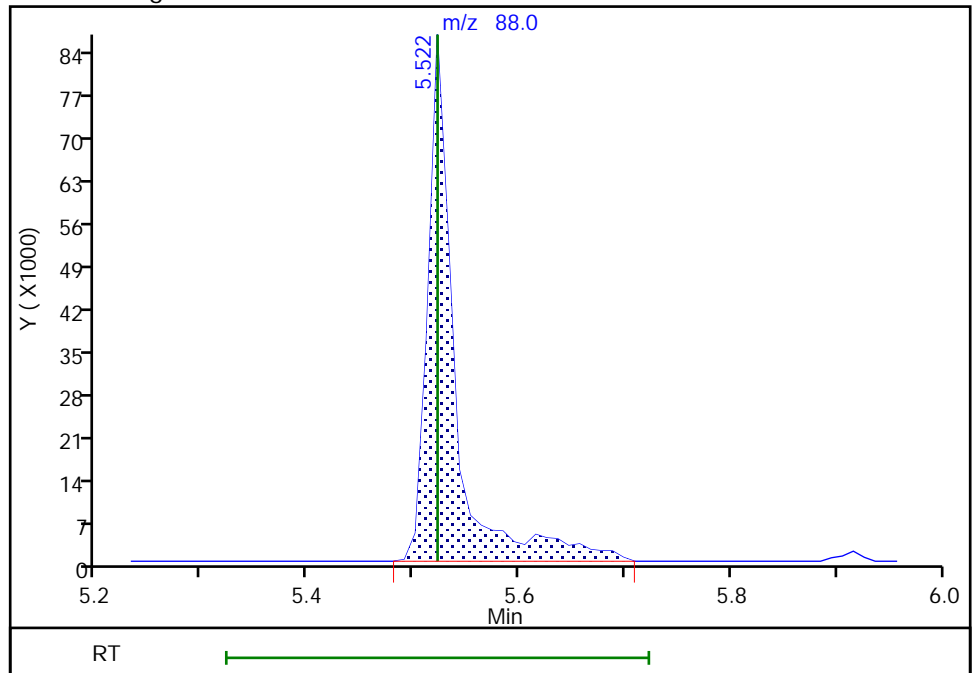
RT: 5.52
Area: 139750
Amount: 934.1926
Amount Units: ug/L

Processing Integration Results



RT: 5.52
Area: 154176
Amount: 1018.3512
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:52:06
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3458.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 09-Jan-2019 17:38:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 7
 Misc. Info.: 480-0077863-011
 Operator ID: KN Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:08:35 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: carrolln

Date: 09-Jan-2019 18:56:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	98	205289	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	87	397397	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	-0.001	96	393230	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.476	-0.001	94	288232	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	44	169069	25.0	23.5	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1009540	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	89	309308	25.0	24.7	
10 Dichlorodifluoromethane	85	1.190	1.180	0.010	99	1477296	100.0	106.9	M
12 Chloromethane	50	1.356	1.346	0.010	99	1670790	100.0	95.6	
13 Vinyl chloride	62	1.449	1.439	0.010	98	1450787	100.0	101.9	
151 Butadiene	54	1.449	1.450	-0.001	97	1364502	100.0	96.8	
14 Bromomethane	94	1.729	1.729	0.000	92	916389	100.0	93.1	
15 Chloroethane	64	1.823	1.823	0.000	98	855062	100.0	95.2	
16 Dichlorofluoromethane	67	2.051	2.040	0.011	95	2045580	100.0	89.9	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	78	1971129	100.0	103.8	
18 Ethyl ether	59	2.330	2.331	-0.001	97	1074869	100.0	92.1	
20 Acrolein	56	2.517	2.507	0.010	99	1168690	500.0	442.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	94	1100232	100.0	113.2	
22 1,1-Dichloroethene	96	2.548	2.538	0.010	96	1096206	100.0	104.2	
23 Acetone	43	2.662	2.662	0.000	98	2441307	500.0	453.7	
25 Iodomethane	142	2.703	2.704	-0.001	99	2041254	100.0	97.5	
26 Carbon disulfide	76	2.735	2.735	-0.001	99	3427406	100.0	98.2	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	86	2207727	100.0	97.9	
27 Methyl acetate	43	2.942	2.942	0.000	99	2591971	200.0	182.6	
30 Methylene Chloride	84	3.035	3.035	0.000	98	1237948	100.0	91.2	
31 2-Methyl-2-propanol	59	3.190	3.191	-0.001	97	1923932	1000.0	985.1	M
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	3480709	100.0	94.3	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	97	1259167	100.0	97.8	
33 Acrylonitrile	53	3.294	3.294	0.000	98	5656675	1000.0	925.7	
35 Hexane	57	3.408	3.408	0.000	95	1577762	100.0	107.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	2224632	100.0	95.8	
37 Vinyl acetate	43	3.657	3.657	0.000	98	5297248	200.0	207.6	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	90	1145360	100.0	93.7	
45 cis-1,2-Dichloroethene	96	4.092	4.082	0.010	81	1456796	100.0	94.8	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	99	3573148	500.0	491.6	
48 Chlorobromomethane	128	4.289	4.289	0.000	97	749021	100.0	95.6	
49 Tetrahydrofuran	42	4.299	4.299	0.000	88	957521	200.0	176.3	
50 Chloroform	83	4.351	4.351	0.000	96	2206779	100.0	94.4	
52 Cyclohexane	56	4.444	4.445	-0.001	95	2180783	100.0	112.9	
51 1,1,1-Trichloroethane	97	4.444	4.445	-0.001	98	1870263	100.0	102.7	
55 Carbon tetrachloride	117	4.558	4.548	0.010	94	1629665	100.0	114.0	
54 1,1-Dichloropropene	75	4.569	4.559	0.010	90	1617243	100.0	104.9	
57 Benzene	78	4.735	4.735	0.000	98	4746798	100.0	98.7	
53 Isobutyl alcohol	43	4.745	4.745	0.000	92	2023380	2500.0	2674.0	
58 1,2-Dichloroethane	62	4.786	4.787	-0.001	97	1879058	100.0	93.0	
59 n-Heptane	43	4.869	4.859	0.010	95	1486245	100.0	107.1	
62 Trichloroethene	95	5.222	5.222	0.000	95	1272013	100.0	99.6	
64 Methylcyclohexane	83	5.315	5.315	0.000	95	1931471	100.0	113.3	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	89	1204405	100.0	97.8	
67 Dibromomethane	93	5.522	5.522	0.000	94	841304	100.0	101.2	
66 1,4-Dioxane	88	5.522	5.522	0.000	43	319476	2000.0	2085.5	
68 Dichlorobromomethane	83	5.636	5.636	0.000	97	1619109	100.0	114.6	
69 2-Chloroethyl vinyl ether	63	5.843	5.844	-0.001	95	776515	100.0	106.1	
72 cis-1,3-Dichloropropene	75	5.957	5.958	-0.001	90	1876074	100.0	116.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	7368767	500.0	492.7	
74 Toluene	92	6.185	6.175	0.010	98	2887073	100.0	102.1	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	98	1675471	100.0	121.6	
75 Ethyl methacrylate	69	6.413	6.414	-0.001	90	1392234	100.0	105.1	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	92	850939	100.0	100.9	
81 Tetrachloroethene	166	6.590	6.590	0.000	96	1306586	100.0	107.1	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	96	1738858	100.0	106.4	
80 2-Hexanone	43	6.704	6.704	0.000	99	4624143	500.0	492.5	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	1216474	100.0	132.0	
84 Ethylene Dibromide	107	6.932	6.932	0.000	98	1138674	100.0	112.0	
87 Chlorobenzene	112	7.284	7.284	0.000	95	3371449	100.0	102.5	
88 Ethylbenzene	91	7.346	7.336	0.010	99	5450132	100.0	101.4	
89 1,1,1,2-Tetrachloroethane	131	7.356	7.346	0.010	93	1268265	100.0	116.9	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	2206500	100.0	102.0	
91 o-Xylene	106	7.750	7.750	0.000	98	2258759	100.0	98.7	
92 Styrene	104	7.771	7.771	0.000	95	3580378	100.0	106.4	
95 Bromoform	173	7.978	7.968	0.010	97	732372	100.0	136.6	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	5793059	100.0	107.7	
101 Bromobenzene	156	8.320	8.320	0.000	93	1445331	100.0	106.2	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	94	1451996	100.0	108.2	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	6348234	100.0	107.5	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.383	-0.001	74	459910	100.0	114.4	
100 1,2,3-Trichloropropane	110	8.382	8.383	-0.001	90	476614	100.0	103.8	
103 2-Chlorotoluene	126	8.455	8.455	0.000	96	1388259	100.0	100.2	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	95	4919765	100.0	109.8	
105 4-Chlorotoluene	126	8.548	8.548	0.000	98	1409623	100.0	103.2	
106 tert-Butylbenzene	134	8.766	8.766	0.000	94	1134116	100.0	113.9	
107 1,2,4-Trimethylbenzene	105	8.818	8.818	0.000	98	5106279	100.0	108.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	95	5980885	100.0	112.7	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	5222277	100.0	111.8	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	2761953	100.0	98.8	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	94	2810156	100.0	99.3	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	4407969	100.0	110.5	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	97	2842876	100.0	102.3	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	82	299710	100.0	122.0	
119 1,2,4-Trichlorobenzene	180	10.787	10.787	0.000	94	2081808	100.0	103.1	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	97	803121	100.0	107.4	
121 Naphthalene	128	10.994	10.994	0.000	97	6105353	100.0	108.0	
122 1,2,3-Trichlorobenzene	180	11.180	11.181	-0.001	95	1973830	100.0	102.5	
S 124 Xylenes, Total	1				0			200.7	
S 125 1,2-Dichloroethene, Total	1				0			192.6	
S 126 1,3-Dichloropropene, Total	1				0			238.1	
S 123 Total BTEX	1				0			502.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144

Amount Added: 50.00

Units: uL

GAS CORP mix_00321

Amount Added: 50.00

Units: uL

C_8260_IS_00127

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00143

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3458.D

Injection Date: 09-Jan-2019 17:38:30

Instrument ID: HP5973C

Operator ID: KN

Lims ID: IC 7

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

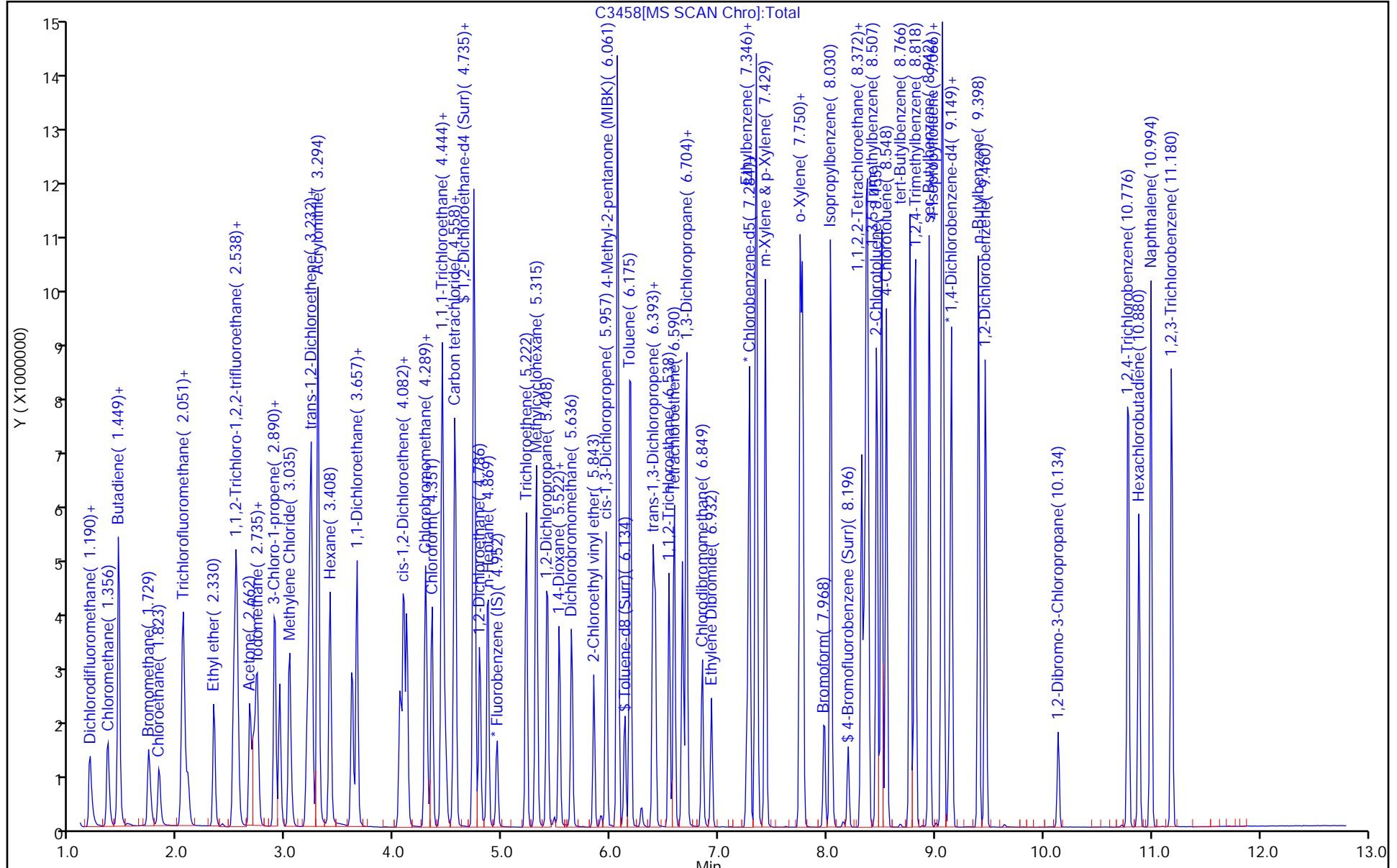
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

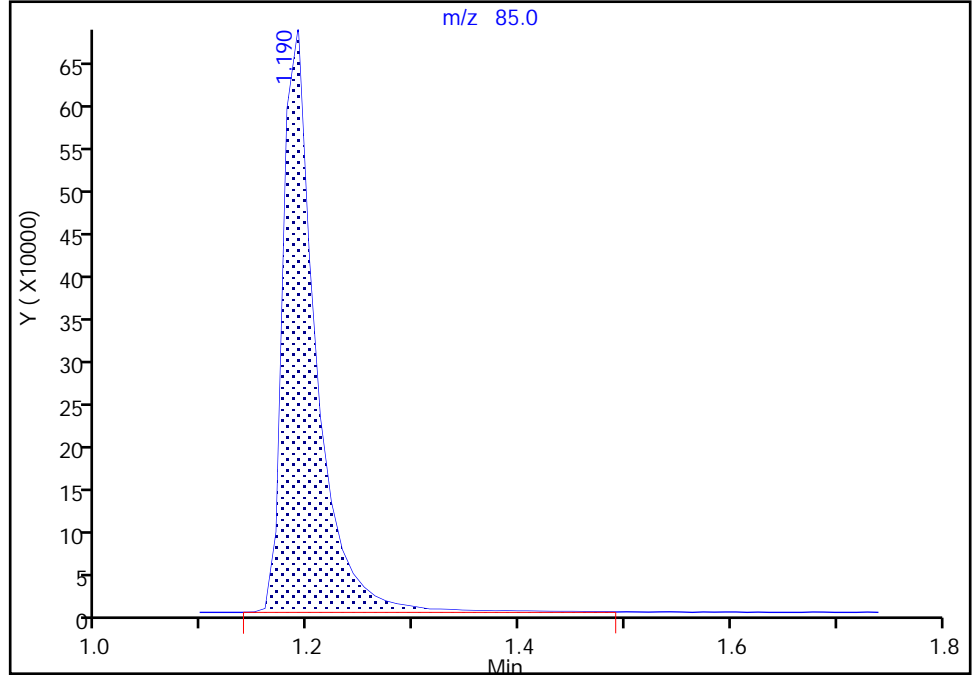
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3458.D
Injection Date: 09-Jan-2019 17:38:30 Instrument ID: HP5973C
Lims ID: IC 7
Client ID:
Operator ID: KN ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

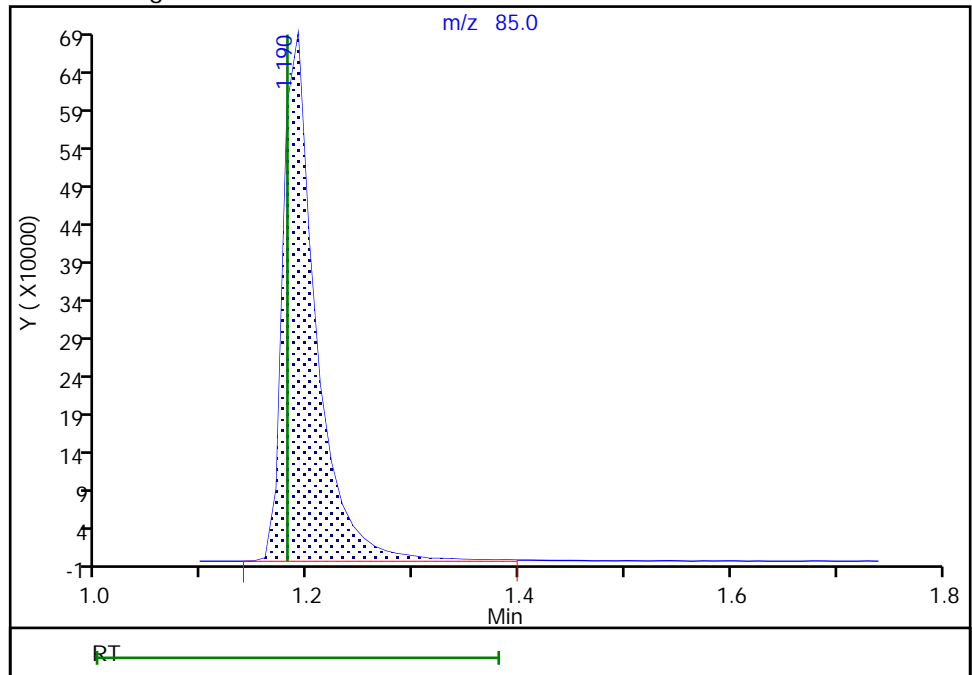
RT: 1.19
Area: 1481668
Amount: 107.1836
Amount Units: ug/L

Processing Integration Results



RT: 1.19
Area: 1477296
Amount: 106.9096
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 19:05:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

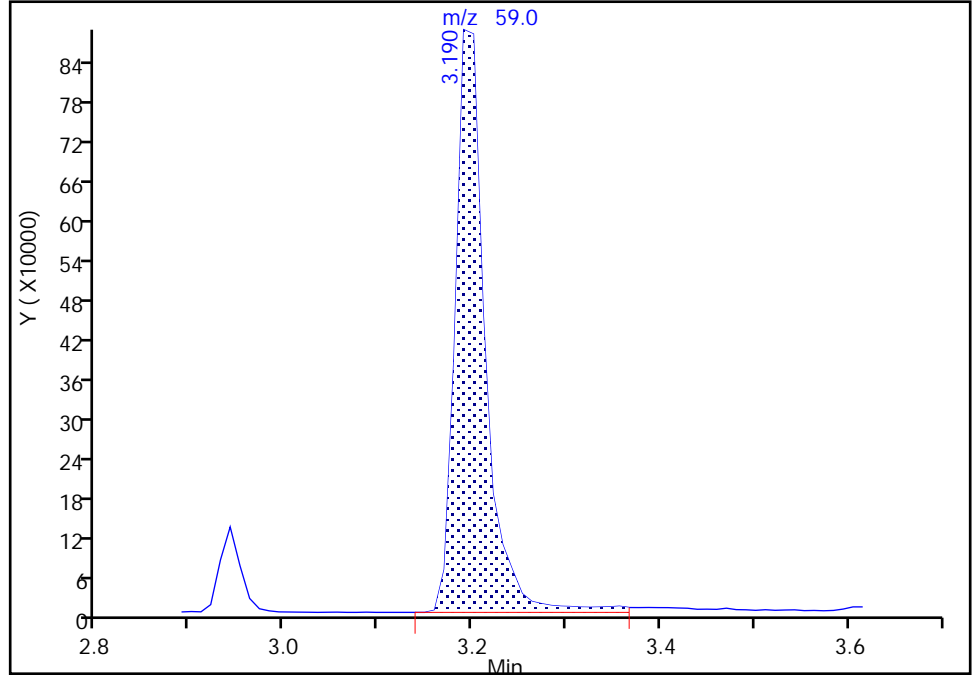
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3458.D
Injection Date: 09-Jan-2019 17:38:30 Instrument ID: HP5973C
Lims ID: IC 7
Client ID:
Operator ID: KN ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

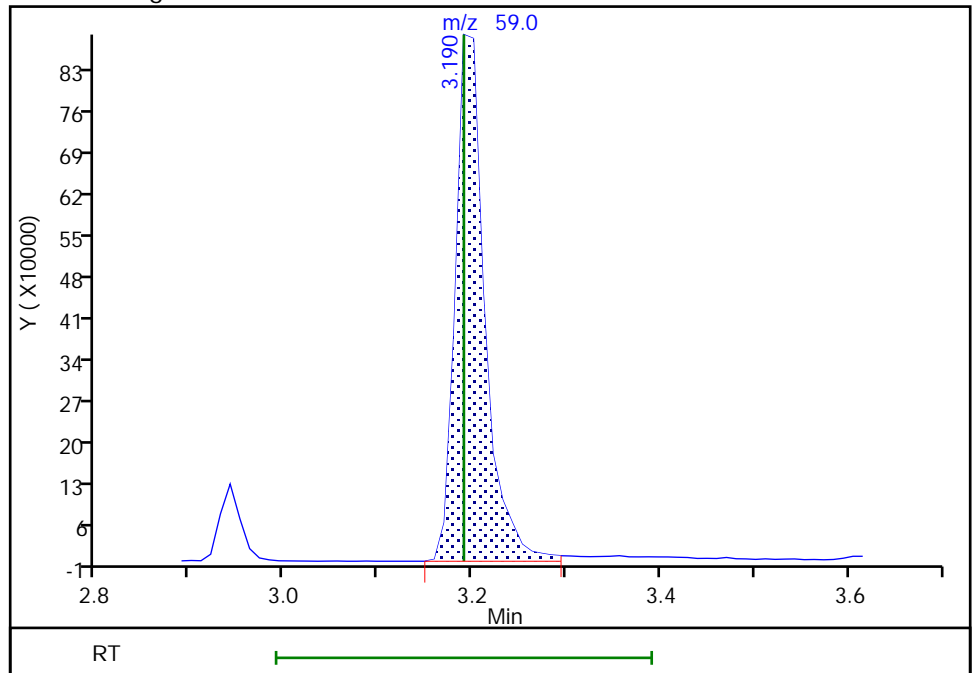
RT: 3.19
Area: 1959330
Amount: 1006.6024
Amount Units: ug/L

Processing Integration Results



RT: 3.19
Area: 1923932
Amount: 985.1130
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 09-Jan-2019 18:55:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461126/3 Calibration Date: 03/01/2019 09:33
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C4976.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.683	2.076	0.1000	30.8	25.0	23.4	50.0
Chloromethane	Ave	2.129	2.281	0.1000	26.8	25.0	7.1	20.0
Butadiene	Ave	1.716	2.129		31.0	25.0	24.0*	20.0
Vinyl chloride	Ave	1.734	1.908	0.1000	27.5	25.0	10.0	20.0
Bromomethane	Ave	1.199	1.281	0.1000	26.7	25.0	6.9	50.0
Chloroethane	Ave	1.094	1.178	0.1000	26.9	25.0	7.6	50.0
Dichlorofluoromethane	Ave	2.771	2.669		24.1	25.0	-3.7	20.0
Trichlorofluoromethane	Ave	2.312	2.505	0.1000	27.1	25.0	8.4	20.0
Ethyl ether	Ave	1.421	1.362		24.0	25.0	-4.1	20.0
Acrolein	Ave	0.3214	0.1733		67.4	125	-46.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.184	1.308	0.1000	27.6	25.0	10.4	20.0
1,1-Dichloroethene	Ave	1.282	1.294	0.1000	25.2	25.0	1.0	20.0
Acetone	Ave	0.6553	0.7546	0.1000	144	125	15.2	50.0
Iodomethane	Ave	2.549	2.439		23.9	25.0	-4.3	20.0
Carbon disulfide	Ave	4.251	3.530	0.1000	20.8	25.0	-17.0	20.0
Allyl chloride	Ave	2.745	2.431		22.1	25.0	-11.4	20.0
Methyl acetate	Ave	1.728	1.245	0.1000	36.0	50.0	-28.0	50.0
Methylene Chloride	Ave	1.652	1.483	0.1000	22.4	25.0	-10.2	20.0
2-Methyl-2-propanol	Ave	0.2378	0.2024		213	250	-14.9	50.0
Methyl tert-butyl ether	Ave	4.493	4.069	0.1000	22.6	25.0	-9.4	20.0
trans-1,2-Dichloroethene	Ave	1.567	1.477	0.1000	23.6	25.0	-5.8	20.0
Acrylonitrile	Ave	0.7441	0.6643		223	250	-10.7	20.0
Hexane	Ave	1.789	1.981		27.7	25.0	10.7	20.0
1,1-Dichloroethane	Ave	2.828	2.580	0.2000	22.8	25.0	-8.8	20.0
Vinyl acetate	Ave	3.107	3.663		58.9	50.0	17.9	20.0
2,2-Dichloropropane	Ave	1.489	1.244		20.9	25.0	-16.4	20.0
cis-1,2-Dichloroethene	Ave	1.872	1.693	0.1000	22.6	25.0	-9.5	20.0
2-Butanone (MEK)	Ave	0.8851	0.9512	0.1000	134	125	7.5	20.0
Chlorobromomethane	Ave	0.9539	0.9239		24.2	25.0	-3.1	20.0
Tetrahydrofuran	Ave	0.6615	0.5549		41.9	50.0	-16.1	20.0
Chloroform	Ave	2.846	2.576	0.2000	22.6	25.0	-9.5	20.0
1,1,1-Trichloroethane	Ave	2.218	2.202	0.1000	24.8	25.0	-0.7	20.0
Cyclohexane	Ave	2.352	2.455	0.1000	26.1	25.0	4.4	20.0
Carbon tetrachloride	Ave	1.741	1.933	0.1000	27.8	25.0	11.0	20.0
1,1-Dichloropropene	Ave	1.877	1.921		25.6	25.0	2.3	20.0
Benzene	Ave	5.858	5.783	0.5000	24.7	25.0	-1.3	20.0
Isobutyl alcohol	Ave	0.0922	0.0839		569	625	-8.9	50.0
1,2-Dichloroethane	Ave	2.460	2.207	0.1000	22.4	25.0	-10.3	20.0
n-Heptane	Ave	1.690	2.236		33.1	25.0	32.3*	20.0
Trichloroethene	Ave	1.555	1.546	0.2000	24.9	25.0	-0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461126/3 Calibration Date: 03/01/2019 09:33
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C4976.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.076	2.251	0.1000	27.1	25.0	8.4	20.0
1,2-Dichloropropane	Ave	1.500	1.457	0.1000	24.3	25.0	-2.9	20.0
1,4-Dioxane	Ave	0.0096	0.0086		446	500	-10.9	50.0
Dibromomethane	Ave	1.012	0.9747	0.1000	24.1	25.0	-3.7	20.0
Bromodichloromethane	Ave	1.721	1.834	0.2000	26.6	25.0	6.6	20.0
2-Chloroethyl vinyl ether	Ave	0.8916	0.9643		27.0	25.0	8.2	20.0
cis-1,3-Dichloropropene	Ave	1.960	2.159	0.2000	27.5	25.0	10.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9408	0.8603	0.1000	114	125	-8.6	20.0
Toluene	Ave	1.779	1.723	0.4000	24.2	25.0	-3.1	20.0
trans-1,3-Dichloropropene	Ave	0.8671	0.9421	0.1000	27.2	25.0	8.7	20.0
Ethyl methacrylate	Ave	0.8332	0.8379		25.1	25.0	0.6	20.0
1,1,2-Trichloroethane	Ave	0.5304	0.5111	0.1000	24.1	25.0	-3.6	20.0
Tetrachloroethene	Ave	0.7676	0.8308	0.2000	27.1	25.0	8.2	20.0
1,3-Dichloropropane	Ave	1.028	1.039		25.3	25.0	1.0	20.0
2-Hexanone	Ave	0.5907	0.6575	0.1000	139	125	11.3	20.0
Dibromochloromethane	Ave	0.5798	0.6678	0.1000	28.8	25.0	15.2	20.0
1,2-Dibromoethane	Ave	0.6394	0.6971		27.3	25.0	9.0	20.0
Chlorobenzene	Ave	2.070	2.018	0.5000	24.4	25.0	-2.5	20.0
Ethylbenzene	Ave	3.383	3.256	0.1000	24.1	25.0	-3.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6825	0.7196		26.4	25.0	5.4	20.0
m,p-Xylene	Ave	1.361	1.316	0.1000	24.2	25.0	-3.3	20.0
o-Xylene	Ave	1.440	1.334	0.3000	23.2	25.0	-7.3	20.0
Styrene	Ave	2.117	2.129	0.3000	25.1	25.0	0.6	20.0
Bromoform	Ave	0.3372	0.4108	0.1000	30.5	25.0	21.8	50.0
Isopropylbenzene	Ave	3.420	3.168	0.1000	23.2	25.0	-7.4	20.0
Bromobenzene	Ave	0.8653	0.8661		25.0	25.0	0.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8530	0.7923	0.3000	23.2	25.0	-7.1	20.0
N-Propylbenzene	Ave	3.755	3.488		23.2	25.0	-7.1	20.0
1,2,3-Trichloropropane	Ave	0.2919	0.2776		23.8	25.0	-4.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2556	0.2466		24.1	25.0	-3.5	50.0
2-Chlorotoluene	Ave	0.8813	0.7934		22.5	25.0	-10.0	20.0
1,3,5-Trimethylbenzene	Ave	2.848	2.674		23.5	25.0	-6.1	20.0
4-Chlorotoluene	Ave	0.8680	0.8330		24.0	25.0	-4.0	20.0
tert-Butylbenzene	Ave	0.6328	0.6213		24.5	25.0	-1.8	20.0
1,2,4-Trimethylbenzene	Ave	3.006	2.831		23.5	25.0	-5.8	20.0
sec-Butylbenzene	Ave	3.374	3.266		24.2	25.0	-3.2	20.0
4-Isopropyltoluene	Ave	2.968	2.896		24.4	25.0	-2.4	20.0
1,3-Dichlorobenzene	Ave	1.776	1.669	0.6000	23.5	25.0	-6.1	20.0
1,4-Dichlorobenzene	Ave	1.799	1.709	0.5000	23.7	25.0	-5.0	20.0
n-Butylbenzene	Ave	2.536	2.353		23.2	25.0	-7.2	20.0
1,2-Dichlorobenzene	Ave	1.766	1.643	0.4000	23.3	25.0	-6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461126/3 Calibration Date: 03/01/2019 09:33
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C4976.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1561	0.1355	0.0500	21.7	25.0	-13.2	50.0
1,2,4-Trichlorobenzene	Ave	1.283	1.164	0.2000	22.7	25.0	-9.3	20.0
Hexachlorobutadiene	Ave	0.4756	0.4925		25.9	25.0	3.6	20.0
Naphthalene	Ave	3.595	2.993		20.8	25.0	-16.8	20.0
1,2,3-Trichlorobenzene	Ave	1.224	1.111		22.7	25.0	-9.2	20.0
Dibromofluoromethane (Surr)	Ave	1.428	1.447		25.3	25.0	1.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8767	0.8688		24.8	25.0	-0.9	20.0
Toluene-d8 (Surr)	Ave	2.569	2.630		25.6	25.0	2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7882	0.8625		27.4	25.0	9.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4976.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Mar-2019 09:33:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0079046-003
 Operator ID: kn Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:08:24 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: nowakk

Date: 01-Mar-2019 10:18:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	217892	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.253	0.000	86	462467	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.128	0.000	94	492691	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.475	0.000	93	315294	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.734	4.734	0.000	68	189299	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	93	1216439	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	398890	25.0	27.4	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	99	452367	25.0	30.8	
12 Chloromethane	50	1.356	1.356	0.000	100	496989	25.0	26.8	
13 Vinyl chloride	62	1.449	1.449	0.000	63	415701	25.0	27.5	
151 Butadiene	54	1.449	1.449	0.000	95	463800	25.0	31.0	
14 Bromomethane	94	1.740	1.740	0.000	90	279198	25.0	26.7	
15 Chloroethane	64	1.822	1.822	0.000	99	256630	25.0	26.9	
16 Dichlorofluoromethane	67	2.050	2.050	0.000	96	581613	25.0	24.1	
17 Trichlorofluoromethane	101	2.050	2.050	0.000	77	545827	25.0	27.1	
18 Ethyl ether	59	2.330	2.330	0.000	95	296767	25.0	24.0	
20 Acrolein	56	2.517	2.517	0.000	100	188768	125.0	67.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	92	284895	25.0	27.6	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	97	282027	25.0	25.2	
23 Acetone	43	2.662	2.662	0.000	98	822105	125.0	144.0	
25 Iodomethane	142	2.703	2.703	0.000	99	531373	25.0	23.9	
26 Carbon disulfide	76	2.734	2.734	0.000	100	769113	25.0	20.8	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	89	529714	25.0	22.1	
27 Methyl acetate	43	2.942	2.942	0.000	99	542656	50.0	36.0	
30 Methylene Chloride	84	3.035	3.035	0.000	98	323143	25.0	22.4	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	98	440914	250.0	212.7	
32 Methyl tert-butyl ether	73	3.221	3.221	0.000	99	886614	25.0	22.6	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	321836	25.0	23.6	
33 Acrylonitrile	53	3.294	3.294	0.000	99	1447405	250.0	223.2	
35 Hexane	57	3.408	3.408	0.000	95	431535	25.0	27.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	562167	25.0	22.8	
37 Vinyl acetate	43	3.657	3.657	0.000	97	1596230	50.0	58.9	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	92	271055	25.0	20.9	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	83	368945	25.0	22.6	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	99	1036312	125.0	134.3	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	201313	25.0	24.2	
49 Tetrahydrofuran	42	4.299	4.299	0.000	91	241811	50.0	41.9	
50 Chloroform	83	4.351	4.351	0.000	95	561350	25.0	22.6	
51 1,1,1-Trichloroethane	97	4.434	4.434	0.000	98	479799	25.0	24.8	
52 Cyclohexane	56	4.444	4.444	0.000	93	534946	25.0	26.1	
55 Carbon tetrachloride	117	4.548	4.548	0.000	97	421288	25.0	27.8	
54 1,1-Dichloropropene	75	4.558	4.558	0.000	93	418622	25.0	25.6	
57 Benzene	78	4.734	4.734	0.000	97	1260129	25.0	24.7	
53 Isobutyl alcohol	43	4.745	4.745	0.000	92	457114	625.0	569.2	
58 1,2-Dichloroethane	62	4.786	4.786	0.000	97	480847	25.0	22.4	
59 n-Heptane	43	4.859	4.859	0.000	96	487279	25.0	33.1	
62 Trichloroethene	95	5.222	5.222	0.000	94	336865	25.0	24.9	
64 Methylcyclohexane	83	5.315	5.315	0.000	94	490459	25.0	27.1	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	92	317416	25.0	24.3	
67 Dibromomethane	93	5.522	5.522	0.000	90	212375	25.0	24.1	
66 1,4-Dioxane	88	5.522	5.522	0.000	36	79461	500.0	445.7	M
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	399716	25.0	26.6	
69 2-Chloroethyl vinyl ether	63	5.843	5.843	0.000	94	210105	25.0	27.0	
72 cis-1,3-Dichloropropene	75	5.957	5.957	0.000	92	470355	25.0	27.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	98	1989268	125.0	114.3	
74 Toluene	92	6.175	6.175	0.000	98	797043	25.0	24.2	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	96	435692	25.0	27.2	
75 Ethyl methacrylate	69	6.413	6.413	0.000	91	387493	25.0	25.1	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	91	236358	25.0	24.1	
81 Tetrachloroethene	166	6.589	6.589	0.000	97	384193	25.0	27.1	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	94	480529	25.0	25.3	
80 2-Hexanone	43	6.703	6.703	0.000	98	1520382	125.0	139.1	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	308856	25.0	28.8	
84 Ethylene Dibromide	107	6.931	6.931	0.000	98	322378	25.0	27.3	
87 Chlorobenzene	112	7.284	7.284	0.000	96	933332	25.0	24.4	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1505590	25.0	24.1	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	93	332789	25.0	26.4	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	608494	25.0	24.2	
91 o-Xylene	106	7.750	7.750	0.000	97	617140	25.0	23.2	
92 Styrene	104	7.771	7.771	0.000	95	984727	25.0	25.1	
95 Bromoform	173	7.968	7.968	0.000	97	189979	25.0	30.5	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1560867	25.0	23.2	
101 Bromobenzene	156	8.320	8.320	0.000	89	426695	25.0	25.0	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	97	390335	25.0	23.2	
99 N-Propylbenzene	91	8.362	8.362	0.000	98	1718708	25.0	23.2	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.382	0.000	76	121480	25.0	24.1	
100 1,2,3-Trichloropropane	110	8.382	8.382	0.000	89	136746	25.0	23.8	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	390892	25.0	22.5	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	95	1317281	25.0	23.5	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	410395	25.0	24.0	
106 tert-Butylbenzene	134	8.766	8.766	0.000	93	306099	25.0	24.5	
107 1,2,4-Trimethylbenzene	105	8.818	8.818	0.000	97	1394945	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	1609343	25.0	24.2	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	1426762	25.0	24.4	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	822202	25.0	23.5	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	96	841917	25.0	23.7	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	1159353	25.0	23.2	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	99	809622	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	84	66752	25.0	21.7	
119 1,2,4-Trichlorobenzene	180	10.776	10.776	0.000	94	573731	25.0	22.7	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	96	242627	25.0	25.9	
121 Naphthalene	128	10.994	10.994	0.000	97	1474422	25.0	20.8	
122 1,2,3-Trichlorobenzene	180	11.180	11.180	0.000	96	547433	25.0	22.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00147	Amount Added: 12.50	Units: uL	
GAS CORP mix_00328	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4976.D

Injection Date: 01-Mar-2019 09:33:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

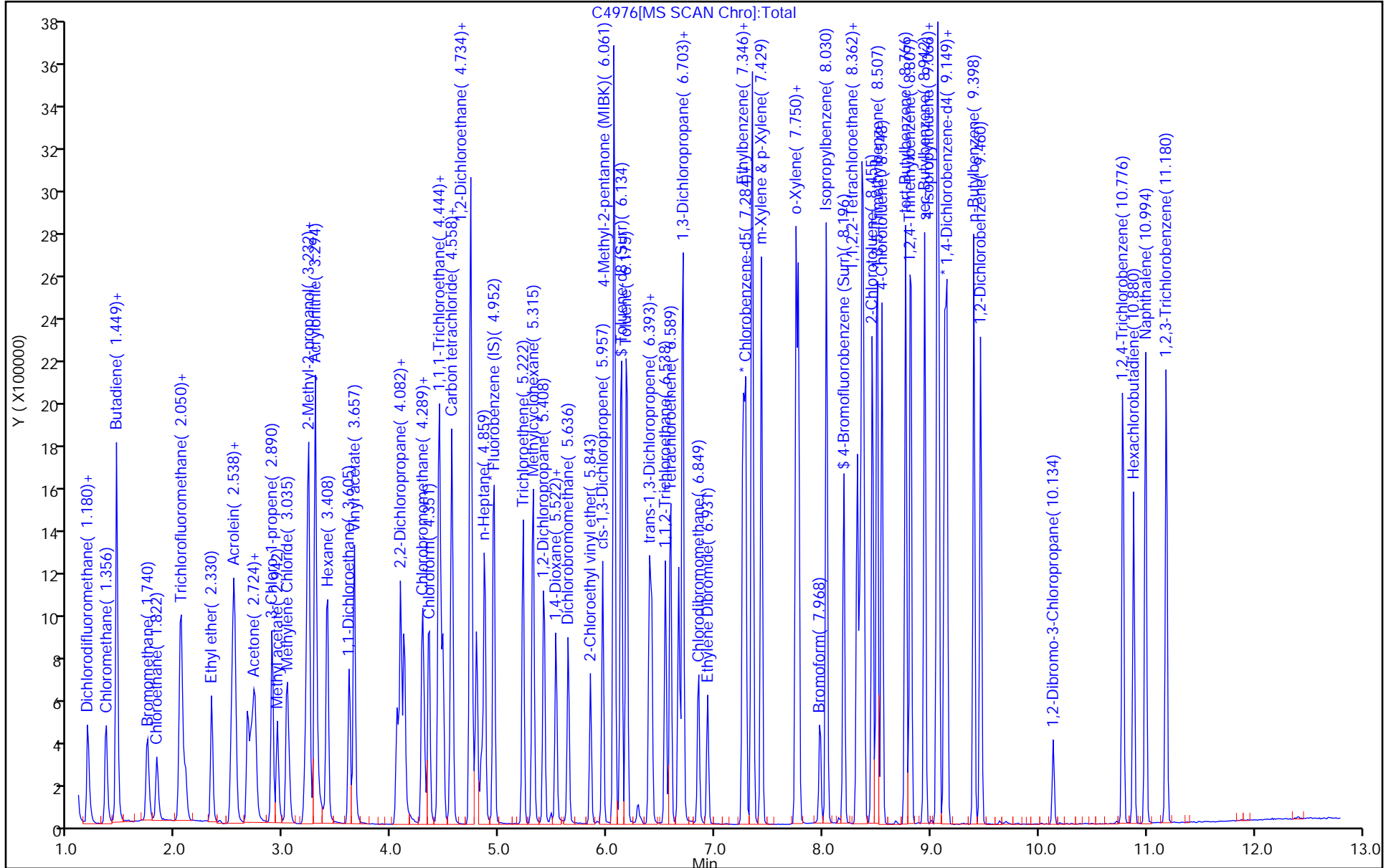
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

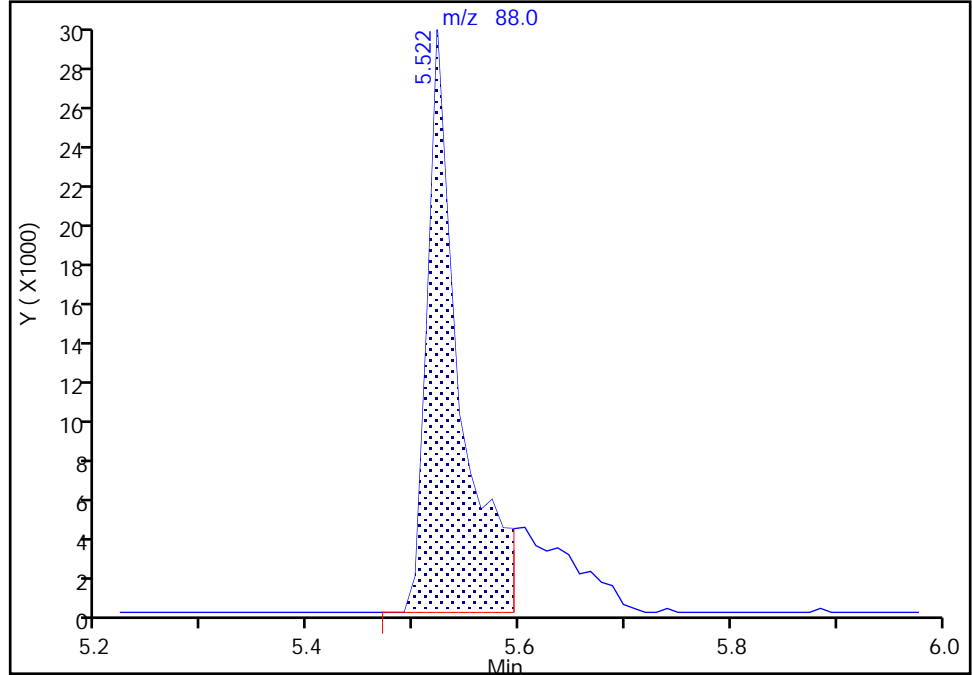
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4976.D
Injection Date: 01-Mar-2019 09:33:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: kn ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

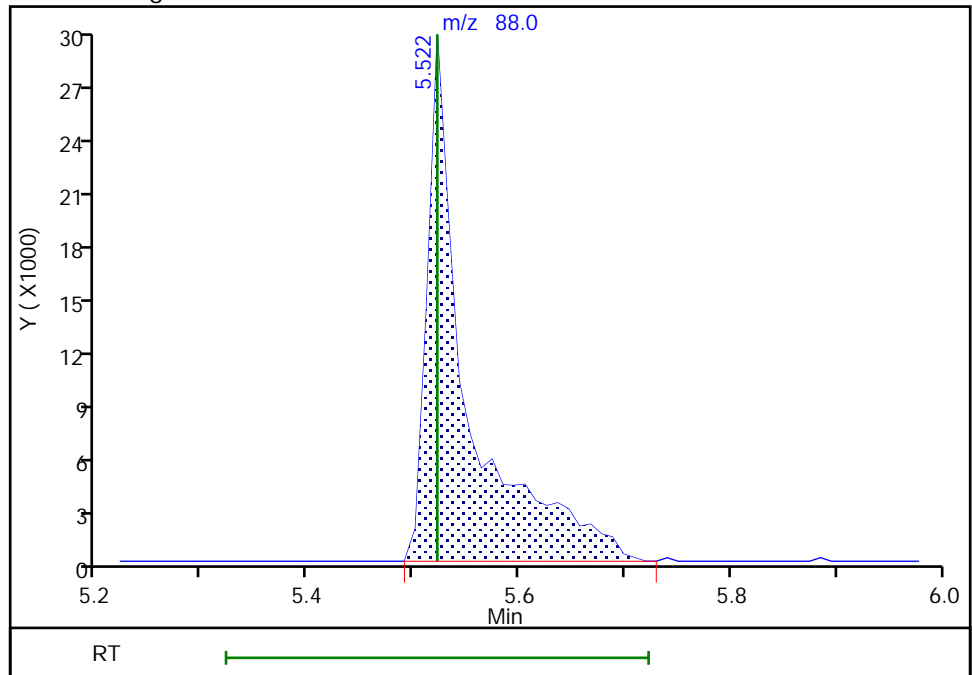
RT: 5.52
Area: 63986
Amount: 358.9211
Amount Units: ug/L

Processing Integration Results



RT: 5.52
Area: 79461
Amount: 445.7261
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 01-Mar-2019 17:08:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461282/3 Calibration Date: 03/01/2019 21:21
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C5001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.683	1.459	0.1000	21.7	25.0	-13.3	50.0
Chloromethane	Ave	2.129	2.099	0.1000	24.6	25.0	-1.4	20.0
Butadiene	Ave	1.716	1.624		23.7	25.0	-5.4	20.0
Vinyl chloride	Ave	1.734	1.784	0.1000	25.7	25.0	2.9	20.0
Bromomethane	Ave	1.199	1.239	0.1000	25.8	25.0	3.3	50.0
Chloroethane	Ave	1.094	1.158	0.1000	26.4	25.0	5.8	50.0
Dichlorofluoromethane	Ave	2.771	2.624		23.7	25.0	-5.3	20.0
Trichlorofluoromethane	Ave	2.312	2.211	0.1000	23.9	25.0	-4.4	20.0
Ethyl ether	Ave	1.421	1.503		26.5	25.0	5.8	20.0
Acrolein	Ave	0.3214	0.2342		91.1	125	-27.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.184	1.171	0.1000	24.7	25.0	-1.1	20.0
1,1-Dichloroethene	Ave	1.282	1.270	0.1000	24.8	25.0	-0.9	20.0
Acetone	Ave	0.6553	0.6425	0.1000	123	125	-1.9	50.0
Iodomethane	Ave	2.549	2.601		25.5	25.0	2.0	20.0
Carbon disulfide	Ave	4.251	3.763	0.1000	22.1	25.0	-11.5	20.0
Allyl chloride	Ave	2.745	2.580		23.5	25.0	-6.0	20.0
Methyl acetate	Ave	1.728	1.542	0.1000	44.6	50.0	-10.8	50.0
Methylene Chloride	Ave	1.652	1.685	0.1000	25.5	25.0	2.0	20.0
2-Methyl-2-propanol	Ave	0.2378	0.2125		223	250	-10.7	50.0
Methyl tert-butyl ether	Ave	4.493	4.696	0.1000	26.1	25.0	4.5	20.0
trans-1,2-Dichloroethene	Ave	1.567	1.594	0.1000	25.4	25.0	1.7	20.0
Acrylonitrile	Ave	0.7441	0.7559		254	250	1.6	20.0
Hexane	Ave	1.789	1.799		25.1	25.0	0.5	20.0
1,1-Dichloroethane	Ave	2.828	2.672	0.2000	23.6	25.0	-5.5	20.0
Vinyl acetate	Ave	3.107	3.952		63.6	50.0	27.2*	20.0
2,2-Dichloropropane	Ave	1.489	1.270		21.3	25.0	-14.7	20.0
cis-1,2-Dichloroethene	Ave	1.872	1.845	0.1000	24.6	25.0	-1.4	20.0
2-Butanone (MEK)	Ave	0.8851	0.9874	0.1000	139	125	11.6	20.0
Chlorobromomethane	Ave	0.9539	0.9880		25.9	25.0	3.6	20.0
Tetrahydrofuran	Ave	0.6615	0.6492		49.1	50.0	-1.9	20.0
Chloroform	Ave	2.846	2.746	0.2000	24.1	25.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	2.218	2.239	0.1000	25.2	25.0	0.9	20.0
Cyclohexane	Ave	2.352	2.310	0.1000	24.6	25.0	-1.8	20.0
Carbon tetrachloride	Ave	1.741	1.892	0.1000	27.2	25.0	8.6	20.0
1,1-Dichloropropene	Ave	1.877	1.873		24.9	25.0	-0.2	20.0
Benzene	Ave	5.858	6.102	0.5000	26.0	25.0	4.2	20.0
Isobutyl alcohol	Ave	0.0922	0.0995		675	625	8.0	50.0
1,2-Dichloroethane	Ave	2.460	2.389	0.1000	24.3	25.0	-2.9	20.0
n-Heptane	Ave	1.690	2.027		30.0	25.0	19.9	20.0
Trichloroethene	Ave	1.555	1.587	0.2000	25.5	25.0	2.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461282/3 Calibration Date: 03/01/2019 21:21
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C5001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.076	2.126	0.1000	25.6	25.0	2.4	20.0
1,2-Dichloropropane	Ave	1.500	1.558	0.1000	26.0	25.0	3.9	20.0
1,4-Dioxane	Ave	0.0096	0.0102		531	500	6.2	50.0
Dibromomethane	Ave	1.012	1.093	0.1000	27.0	25.0	8.0	20.0
Bromodichloromethane	Ave	1.721	1.960	0.2000	28.5	25.0	13.9	20.0
2-Chloroethyl vinyl ether	Ave	0.8916	1.080		30.3	25.0	21.1*	20.0
cis-1,3-Dichloropropene	Ave	1.960	2.320	0.2000	29.6	25.0	18.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9408	0.9773	0.1000	130	125	3.9	20.0
Toluene	Ave	1.779	1.809	0.4000	25.4	25.0	1.7	20.0
trans-1,3-Dichloropropene	Ave	0.8671	1.032	0.1000	29.8	25.0	19.0	20.0
Ethyl methacrylate	Ave	0.8332	0.9141		27.4	25.0	9.7	20.0
1,1,2-Trichloroethane	Ave	0.5304	0.5547	0.1000	26.1	25.0	4.6	20.0
Tetrachloroethene	Ave	0.7676	0.8430	0.2000	27.5	25.0	9.8	20.0
1,3-Dichloropropane	Ave	1.028	1.138		27.7	25.0	10.7	20.0
2-Hexanone	Ave	0.5907	0.7078	0.1000	150	125	19.8	20.0
Dibromochloromethane	Ave	0.5798	0.7354	0.1000	31.7	25.0	26.8*	20.0
1,2-Dibromoethane	Ave	0.6394	0.7573		29.6	25.0	18.4	20.0
Chlorobenzene	Ave	2.070	2.104	0.5000	25.4	25.0	1.6	20.0
Ethylbenzene	Ave	3.383	3.316	0.1000	24.5	25.0	-2.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6825	0.7844		28.7	25.0	14.9	20.0
m,p-Xylene	Ave	1.361	1.367	0.1000	25.1	25.0	0.4	20.0
o-Xylene	Ave	1.440	1.358	0.3000	23.6	25.0	-5.7	20.0
Styrene	Ave	2.117	2.247	0.3000	26.5	25.0	6.2	20.0
Bromoform	Ave	0.3372	0.4519	0.1000	33.5	25.0	34.0	50.0
Isopropylbenzene	Ave	3.420	3.240	0.1000	23.7	25.0	-5.3	20.0
Bromobenzene	Ave	0.8653	0.8987		26.0	25.0	3.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8530	0.8964	0.3000	26.3	25.0	5.1	20.0
N-Propylbenzene	Ave	3.755	3.598		24.0	25.0	-4.2	20.0
1,2,3-Trichloropropane	Ave	0.2919	0.3144		26.9	25.0	7.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2556	0.2652		25.9	25.0	3.8	50.0
2-Chlorotoluene	Ave	0.8813	0.8198		23.3	25.0	-7.0	20.0
1,3,5-Trimethylbenzene	Ave	2.848	2.819		24.7	25.0	-1.0	20.0
4-Chlorotoluene	Ave	0.8680	0.8758		25.2	25.0	0.9	20.0
tert-Butylbenzene	Ave	0.6328	0.6379		25.2	25.0	0.8	20.0
1,2,4-Trimethylbenzene	Ave	3.006	2.992		24.9	25.0	-0.5	20.0
sec-Butylbenzene	Ave	3.374	3.311		24.5	25.0	-1.9	20.0
4-Isopropyltoluene	Ave	2.968	2.975		25.1	25.0	0.2	20.0
1,3-Dichlorobenzene	Ave	1.776	1.767	0.6000	24.9	25.0	-0.5	20.0
1,4-Dichlorobenzene	Ave	1.799	1.806	0.5000	25.1	25.0	0.4	20.0
n-Butylbenzene	Ave	2.536	2.430		24.0	25.0	-4.2	20.0
1,2-Dichlorobenzene	Ave	1.766	1.724	0.4000	24.4	25.0	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461282/3 Calibration Date: 03/01/2019 21:21
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C5001.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1561	0.1583	0.0500	25.3	25.0	1.4	50.0
1,2,4-Trichlorobenzene	Ave	1.283	1.253	0.2000	24.4	25.0	-2.3	20.0
Hexachlorobutadiene	Ave	0.4756	0.4967		26.1	25.0	4.4	20.0
Naphthalene	Ave	3.595	3.434		23.9	25.0	-4.5	20.0
1,2,3-Trichlorobenzene	Ave	1.224	1.220		24.9	25.0	-0.3	20.0
Dibromofluoromethane (Surr)	Ave	1.428	1.483		26.0	25.0	3.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8767	0.8849		25.2	25.0	0.9	20.0
Toluene-d8 (Surr)	Ave	2.569	2.594		25.2	25.0	1.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7882	0.8816		28.0	25.0	11.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5001.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Mar-2019 21:21:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0079070-003
 Operator ID: NC Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 21:58:31 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln

Date: 01-Mar-2019 21:58:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	214275	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	84	454604	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	95	482457	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	317702	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	56	189601	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	93	1179132	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	96	400791	25.0	28.0	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	99	312617	25.0	21.7	
12 Chloromethane	50	1.356	1.356	0.000	99	449704	25.0	24.6	
13 Vinyl chloride	62	1.450	1.450	0.000	99	382169	25.0	25.7	
151 Butadiene	54	1.450	1.450	0.000	96	347980	25.0	23.7	
14 Bromomethane	94	1.740	1.740	0.000	90	265488	25.0	25.8	
15 Chloroethane	64	1.823	1.823	0.000	99	248088	25.0	26.4	
16 Dichlorofluoromethane	67	2.040	2.040	0.000	96	562253	25.0	23.7	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	72	473761	25.0	23.9	
18 Ethyl ether	59	2.331	2.331	0.000	95	322153	25.0	26.5	
20 Acrolein	56	2.517	2.517	0.000	100	250865	125.0	91.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	92	250841	25.0	24.7	
22 1,1-Dichloroethene	96	2.538	2.538	0.000	97	272154	25.0	24.8	
23 Acetone	43	2.662	2.662	0.000	98	688350	125.0	122.6	
25 Iodomethane	142	2.704	2.704	0.000	100	557422	25.0	25.5	
26 Carbon disulfide	76	2.735	2.735	0.000	100	806407	25.0	22.1	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	89	552760	25.0	23.5	
27 Methyl acetate	43	2.942	2.942	0.000	99	661000	50.0	44.6	
30 Methylene Chloride	84	3.035	3.035	0.000	98	361155	25.0	25.5	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	98	455342	250.0	223.4	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	1006332	25.0	26.1	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	341506	25.0	25.4	
33 Acrylonitrile	53	3.294	3.294	0.000	98	1619655	250.0	254.0	
35 Hexane	57	3.408	3.408	0.000	94	385404	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	572631	25.0	23.6	
37 Vinyl acetate	43	3.657	3.657	0.000	97	1693483	50.0	63.6	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	93	272200	25.0	21.3	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	79	395356	25.0	24.6	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	99	1057880	125.0	139.5	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	211713	25.0	25.9	
49 Tetrahydrofuran	42	4.300	4.300	0.000	91	278223	50.0	49.1	
50 Chloroform	83	4.351	4.351	0.000	95	588340	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.434	4.434	0.000	97	479773	25.0	25.2	
52 Cyclohexane	56	4.445	4.445	0.000	93	495022	25.0	24.6	
55 Carbon tetrachloride	117	4.548	4.548	0.000	97	405348	25.0	27.2	
54 1,1-Dichloropropene	75	4.559	4.559	0.000	92	401323	25.0	24.9	
57 Benzene	78	4.735	4.735	0.000	96	1307479	25.0	26.0	
53 Isobutyl alcohol	43	4.745	4.745	0.000	93	532979	625.0	674.8	
58 1,2-Dichloroethane	62	4.787	4.787	0.000	97	511937	25.0	24.3	
59 n-Heptane	43	4.859	4.859	0.000	95	434280	25.0	30.0	
62 Trichloroethene	95	5.222	5.222	0.000	95	340110	25.0	25.5	
64 Methylcyclohexane	83	5.315	5.315	0.000	93	455474	25.0	25.6	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	92	333857	25.0	26.0	
67 Dibromomethane	93	5.522	5.522	0.000	91	234146	25.0	27.0	
66 1,4-Dioxane	88	5.522	5.522	0.000	38	93057	500.0	531.0	
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	419873	25.0	28.5	
69 2-Chloroethyl vinyl ether	63	5.844	5.844	0.000	94	231364	25.0	30.3	
72 cis-1,3-Dichloropropene	75	5.958	5.958	0.000	92	497034	25.0	29.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	98	2221475	125.0	129.9	
74 Toluene	92	6.175	6.175	0.000	98	822359	25.0	25.4	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	96	469085	25.0	29.8	
75 Ethyl methacrylate	69	6.414	6.414	0.000	91	415558	25.0	27.4	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	89	252158	25.0	26.1	
81 Tetrachloroethene	166	6.590	6.590	0.000	97	383207	25.0	27.5	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	94	517484	25.0	27.7	
80 2-Hexanone	43	6.704	6.704	0.000	99	1608801	125.0	149.8	
83 Chlorodibromomethane	129	6.849	6.849	0.000	89	334323	25.0	31.7	
84 Ethylene Dibromide	107	6.932	6.932	0.000	99	344271	25.0	29.6	
87 Chlorobenzene	112	7.284	7.284	0.000	96	956488	25.0	25.4	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1507341	25.0	24.5	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	93	356607	25.0	28.7	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	621489	25.0	25.1	
91 o-Xylene	106	7.750	7.750	0.000	98	617311	25.0	23.6	
92 Styrene	104	7.771	7.771	0.000	96	1021659	25.0	26.5	
95 Bromoform	173	7.968	7.968	0.000	97	205449	25.0	33.5	
94 Isopropylbenzene	105	8.030	8.030	0.000	96	1562963	25.0	23.7	
101 Bromobenzene	156	8.320	8.320	0.000	90	433571	25.0	26.0	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	96	432456	25.0	26.3	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	1735692	25.0	24.0	
100 1,2,3-Trichloropropane	110	8.383	8.383	0.000	89	151695	25.0	26.9	
98 trans-1,4-Dichloro-2-buten	53	8.383	8.383	0.000	74	127927	25.0	25.9	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	395514	25.0	23.3	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	94	1360120	25.0	24.7	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	422541	25.0	25.2	
106 tert-Butylbenzene	134	8.766	8.766	0.000	92	307762	25.0	25.2	
107 1,2,4-Trimethylbenzene	105	8.807	8.807	0.000	96	1443301	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	1597389	25.0	24.5	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	1435352	25.0	25.1	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	99	852375	25.0	24.9	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	96	871371	25.0	25.1	
115 n-Butylbenzene	91	9.398	9.398	0.000	98	1172434	25.0	24.0	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	98	831892	25.0	24.4	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	85	76358	25.0	25.3	
119 1,2,4-Trichlorobenzene	180	10.776	10.776	0.000	94	604720	25.0	24.4	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	96	239640	25.0	26.1	
121 Naphthalene	128	10.994	10.994	0.000	96	1656750	25.0	23.9	
122 1,2,3-Trichlorobenzene	180	11.181	11.181	0.000	97	588803	25.0	24.9	

Reagents:

8260 CORP mix_00148	Amount Added: 12.50	Units: uL	
GAS CORP mix_00328	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5001.D

Injection Date: 01-Mar-2019 21:21:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

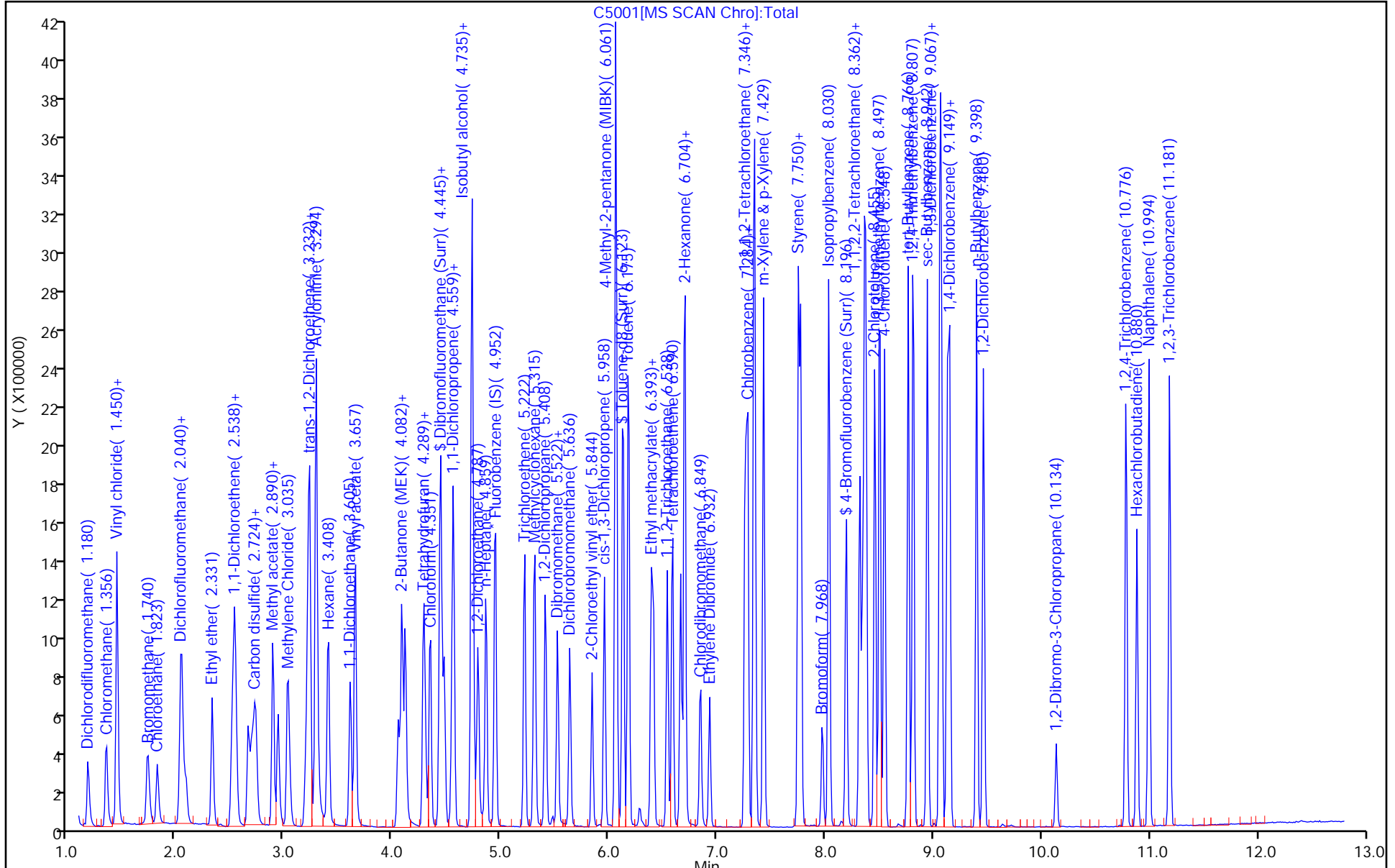
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461298/9 Calibration Date: 03/02/2019 13:43
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C5029.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.683	1.856	0.1000	27.6	25.0	10.3	50.0
Chloromethane	Ave	2.129	2.163	0.1000	25.4	25.0	1.6	20.0
Butadiene	Ave	1.716	1.956		28.5	25.0	14.0	20.0
Vinyl chloride	Ave	1.734	1.788	0.1000	25.8	25.0	3.1	20.0
Bromomethane	Ave	1.199	1.247	0.1000	26.0	25.0	4.0	50.0
Chloroethane	Ave	1.094	1.119	0.1000	25.6	25.0	2.3	50.0
Dichlorofluoromethane	Ave	2.771	2.633		23.8	25.0	-5.0	20.0
Trichlorofluoromethane	Ave	2.312	2.289	0.1000	24.8	25.0	-1.0	20.0
Ethyl ether	Ave	1.421	1.404		24.7	25.0	-1.2	20.0
Acrolein	Ave	0.3214	0.2151		83.6	125	-33.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.184	1.323	0.1000	27.9	25.0	11.8	20.0
1,1-Dichloroethene	Ave	1.282	1.324	0.1000	25.8	25.0	3.3	20.0
Acetone	Ave	0.6553	0.6569	0.1000	125	125	0.3	50.0
Iodomethane	Ave	2.549	2.554		25.0	25.0	0.2	20.0
Carbon disulfide	Ave	4.251	3.890	0.1000	22.9	25.0	-8.5	20.0
Allyl chloride	Ave	2.745	2.503		22.8	25.0	-8.8	20.0
Methyl acetate	Ave	1.728	1.434	0.1000	41.5	50.0	-17.1	50.0
Methylene Chloride	Ave	1.652	1.569	0.1000	23.7	25.0	-5.0	20.0
2-Methyl-2-propanol	Ave	0.2378	0.2058		216	250	-13.5	50.0
Methyl tert-butyl ether	Ave	4.493	4.280	0.1000	23.8	25.0	-4.7	20.0
trans-1,2-Dichloroethene	Ave	1.567	1.535	0.1000	24.5	25.0	-2.1	20.0
Acrylonitrile	Ave	0.7441	0.6991		235	250	-6.1	20.0
Hexane	Ave	1.789	2.005		28.0	25.0	12.1	20.0
1,1-Dichloroethane	Ave	2.828	2.686	0.2000	23.7	25.0	-5.0	20.0
Vinyl acetate	Ave	3.107	3.760		60.5	50.0	21.0*	20.0
2,2-Dichloropropane	Ave	1.489	1.324		22.2	25.0	-11.1	20.0
cis-1,2-Dichloroethene	Ave	1.872	1.743	0.1000	23.3	25.0	-6.9	20.0
2-Butanone (MEK)	Ave	0.8851	0.9030	0.1000	128	125	2.0	20.0
Chlorobromomethane	Ave	0.9539	0.9500		24.9	25.0	-0.4	20.0
Tetrahydrofuran	Ave	0.6615	0.5790		43.8	50.0	-12.5	20.0
Chloroform	Ave	2.846	2.685	0.2000	23.6	25.0	-5.7	20.0
1,1,1-Trichloroethane	Ave	2.218	2.276	0.1000	25.6	25.0	2.6	20.0
Cyclohexane	Ave	2.352	2.517	0.1000	26.8	25.0	7.0	20.0
Carbon tetrachloride	Ave	1.741	2.012	0.1000	28.9	25.0	15.5	20.0
1,1-Dichloropropene	Ave	1.877	1.948		25.9	25.0	3.8	20.0
Benzene	Ave	5.858	5.937	0.5000	25.3	25.0	1.4	20.0
Isobutyl alcohol	Ave	0.0922	0.0859		583	625	-6.8	50.0
1,2-Dichloroethane	Ave	2.460	2.272	0.1000	23.1	25.0	-7.6	20.0
n-Heptane	Ave	1.690	1.975		29.2	25.0	16.8	20.0
Trichloroethene	Ave	1.555	1.550	0.2000	24.9	25.0	-0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461298/9 Calibration Date: 03/02/2019 13:43
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C5029.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.076	2.256	0.1000	27.2	25.0	8.7	20.0
1,2-Dichloropropane	Ave	1.500	1.490	0.1000	24.8	25.0	-0.7	20.0
1,4-Dioxane	Ave	0.0096	0.0072		374	500	-25.1	50.0
Dibromomethane	Ave	1.012	1.028	0.1000	25.4	25.0	1.5	20.0
Bromodichloromethane	Ave	1.721	1.895	0.2000	27.5	25.0	10.1	20.0
2-Chloroethyl vinyl ether	Ave	0.8916	0.9805		27.5	25.0	10.0	20.0
cis-1,3-Dichloropropene	Ave	1.960	2.263	0.2000	28.9	25.0	15.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.9408	0.8847	0.1000	118	125	-6.0	20.0
Toluene	Ave	1.779	1.760	0.4000	24.7	25.0	-1.0	20.0
trans-1,3-Dichloropropene	Ave	0.8671	1.005	0.1000	29.0	25.0	15.9	20.0
Ethyl methacrylate	Ave	0.8332	0.8410		25.2	25.0	0.9	20.0
1,1,2-Trichloroethane	Ave	0.5304	0.5211	0.1000	24.6	25.0	-1.8	20.0
Tetrachloroethene	Ave	0.7676	0.8710	0.2000	28.4	25.0	13.5	20.0
1,3-Dichloropropane	Ave	1.028	1.073		26.1	25.0	4.3	20.0
2-Hexanone	Ave	0.5907	0.6288	0.1000	133	125	6.4	20.0
Dibromochloromethane	Ave	0.5798	0.7071	0.1000	30.5	25.0	22.0*	20.0
1,2-Dibromoethane	Ave	0.6394	0.7084		27.7	25.0	10.8	20.0
Chlorobenzene	Ave	2.070	2.105	0.5000	25.4	25.0	1.7	20.0
Ethylbenzene	Ave	3.383	3.334	0.1000	24.6	25.0	-1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6825	0.7517		27.5	25.0	10.1	20.0
m,p-Xylene	Ave	1.361	1.355	0.1000	24.9	25.0	-0.5	20.0
o-Xylene	Ave	1.440	1.369	0.3000	23.8	25.0	-4.9	20.0
Styrene	Ave	2.117	2.187	0.3000	25.8	25.0	3.3	20.0
Bromoform	Ave	0.3372	0.4249	0.1000	31.5	25.0	26.0	50.0
Isopropylbenzene	Ave	3.420	3.294	0.1000	24.1	25.0	-3.7	20.0
Bromobenzene	Ave	0.8653	0.8877		25.6	25.0	2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8530	0.8318	0.3000	24.4	25.0	-2.5	20.0
N-Propylbenzene	Ave	3.755	3.615		24.1	25.0	-3.7	20.0
1,2,3-Trichloropropane	Ave	0.2919	0.2825		24.2	25.0	-3.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2556	0.2462		24.1	25.0	-3.7	50.0
2-Chlorotoluene	Ave	0.8813	0.8162		23.2	25.0	-7.4	20.0
1,3,5-Trimethylbenzene	Ave	2.848	2.824		24.8	25.0	-0.9	20.0
4-Chlorotoluene	Ave	0.8680	0.8320		24.0	25.0	-4.1	20.0
tert-Butylbenzene	Ave	0.6328	0.6437		25.4	25.0	1.7	20.0
1,2,4-Trimethylbenzene	Ave	3.006	2.938		24.4	25.0	-2.3	20.0
sec-Butylbenzene	Ave	3.374	3.344		24.8	25.0	-0.9	20.0
4-Isopropyltoluene	Ave	2.968	3.021		25.4	25.0	1.8	20.0
1,3-Dichlorobenzene	Ave	1.776	1.710	0.6000	24.1	25.0	-3.8	20.0
1,4-Dichlorobenzene	Ave	1.799	1.762	0.5000	24.5	25.0	-2.0	20.0
n-Butylbenzene	Ave	2.536	2.439		24.0	25.0	-3.8	20.0
1,2-Dichlorobenzene	Ave	1.766	1.712	0.4000	24.2	25.0	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-461298/9 Calibration Date: 03/02/2019 13:43
 Instrument ID: HP5973C Calib Start Date: 01/09/2019 14:30
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/09/2019 17:38
 Lab File ID: C5029.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1561	0.1508	0.0500	24.1	25.0	-3.4	50.0
1,2,4-Trichlorobenzene	Ave	1.283	1.244	0.2000	24.2	25.0	-3.1	20.0
Hexachlorobutadiene	Ave	0.4756	0.5269		27.7	25.0	10.8	20.0
Naphthalene	Ave	3.595	3.233		22.5	25.0	-10.1	20.0
1,2,3-Trichlorobenzene	Ave	1.224	1.168		23.9	25.0	-4.6	20.0
Dibromofluoromethane (Surr)	Ave	1.428	1.502		26.3	25.0	5.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8767	0.8522		24.3	25.0	-2.8	20.0
Toluene-d8 (Surr)	Ave	2.569	2.664		25.9	25.0	3.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7882	0.8472		26.9	25.0	7.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5029.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 02-Mar-2019 13:43:30 ALS Bottle#: 5 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0079075-009
 Operator ID: OI Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 05-Mar-2019 12:58:39 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0318

First Level Reviewer: izquierdoo

Date: 02-Mar-2019 14:28:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	214301	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.253	0.000	87	446331	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	94	470559	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	321898	25.0	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	70	182624	25.0	24.3	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1188855	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	378140	25.0	26.9	
10 Dichlorodifluoromethane	85	1.191	1.191	0.000	99	397778	25.0	27.6	
12 Chloromethane	50	1.356	1.356	0.000	99	463497	25.0	25.4	
13 Vinyl chloride	62	1.450	1.450	0.000	98	383075	25.0	25.8	
151 Butadiene	54	1.450	1.450	0.000	96	419186	25.0	28.5	
14 Bromomethane	94	1.740	1.740	0.000	91	267247	25.0	26.0	
15 Chloroethane	64	1.833	1.833	0.000	100	239848	25.0	25.6	
16 Dichlorofluoromethane	67	2.051	2.051	0.000	96	564150	25.0	23.8	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	74	490472	25.0	24.8	
18 Ethyl ether	59	2.331	2.331	0.000	96	300953	25.0	24.7	
20 Acrolein	56	2.517	2.517	0.000	99	230439	125.0	83.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	92	283591	25.0	27.9	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	98	283656	25.0	25.8	
23 Acetone	43	2.673	2.673	0.000	98	703905	125.0	125.3	
25 Iodomethane	142	2.704	2.704	0.000	100	547227	25.0	25.0	
26 Carbon disulfide	76	2.735	2.735	0.000	100	833697	25.0	22.9	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	89	536313	25.0	22.8	
27 Methyl acetate	43	2.942	2.942	0.000	99	614441	50.0	41.5	
30 Methylene Chloride	84	3.035	3.035	0.000	98	336189	25.0	23.7	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	98	441009	250.0	216.3	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	917255	25.0	23.8	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	328851	25.0	24.5	
33 Acrylonitrile	53	3.294	3.294	0.000	99	1498098	250.0	234.9	
35 Hexane	57	3.408	3.408	0.000	94	429613	25.0	28.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	575671	25.0	23.7	
37 Vinyl acetate	43	3.657	3.657	0.000	97	1611354	50.0	60.5	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	93	283777	25.0	22.2	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	373493	25.0	23.3	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	99	967543	125.0	127.5	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	203575	25.0	24.9	
49 Tetrahydrofuran	42	4.300	4.300	0.000	89	248139	50.0	43.8	
50 Chloroform	83	4.351	4.351	0.000	95	575341	25.0	23.6	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.000	98	487704	25.0	25.6	
52 Cyclohexane	56	4.445	4.445	0.000	94	539500	25.0	26.8	
55 Carbon tetrachloride	117	4.548	4.548	0.000	96	431112	25.0	28.9	
54 1,1-Dichloropropene	75	4.559	4.559	0.000	92	417468	25.0	25.9	
57 Benzene	78	4.735	4.735	0.000	96	1272310	25.0	25.3	
53 Isobutyl alcohol	43	4.745	4.745	0.000	93	460238	625.0	582.6	
58 1,2-Dichloroethane	62	4.787	4.787	0.000	97	486926	25.0	23.1	
59 n-Heptane	43	4.859	4.859	0.000	96	423215	25.0	29.2	M
62 Trichloroethene	95	5.222	5.222	0.000	95	332243	25.0	24.9	
64 Methylcyclohexane	83	5.315	5.315	0.000	94	483402	25.0	27.2	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	92	319207	25.0	24.8	
67 Dibromomethane	93	5.522	5.522	0.000	91	220198	25.0	25.4	
66 1,4-Dioxane	88	5.522	5.522	0.000	37	64408	500.0	374.3	
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	406000	25.0	27.5	
69 2-Chloroethyl vinyl ether	63	5.844	5.844	0.000	94	210125	25.0	27.5	
72 cis-1,3-Dichloropropene	75	5.958	5.958	0.000	94	484982	25.0	28.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	99	1974442	125.0	117.6	
74 Toluene	92	6.175	6.175	0.000	98	785542	25.0	24.7	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	96	448346	25.0	29.0	
75 Ethyl methacrylate	69	6.414	6.414	0.000	92	375382	25.0	25.2	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	90	232570	25.0	24.6	
81 Tetrachloroethene	166	6.590	6.590	0.000	97	388735	25.0	28.4	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	95	478785	25.0	26.1	
80 2-Hexanone	43	6.704	6.704	0.000	98	1403153	125.0	133.0	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	315600	25.0	30.5	
84 Ethylene Dibromide	107	6.932	6.932	0.000	98	316200	25.0	27.7	
87 Chlorobenzene	112	7.284	7.284	0.000	96	939631	25.0	25.4	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1487866	25.0	24.6	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	94	335523	25.0	27.5	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	604635	25.0	24.9	
91 o-Xylene	106	7.750	7.750	0.000	97	610920	25.0	23.8	
92 Styrene	104	7.771	7.771	0.000	96	976261	25.0	25.8	
95 Bromoform	173	7.968	7.968	0.000	97	189656	25.0	31.5	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1549819	25.0	24.1	
101 Bromobenzene	156	8.320	8.320	0.000	90	417697	25.0	25.6	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	97	391386	25.0	24.4	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	1701052	25.0	24.1	
100 1,2,3-Trichloropropane	110	8.372	8.372	0.000	89	132933	25.0	24.2	
98 trans-1,4-Dichloro-2-buten	53	8.383	8.383	0.000	74	115857	25.0	24.1	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	384072	25.0	23.2	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	94	1328819	25.0	24.8	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	391496	25.0	24.0	
106 tert-Butylbenzene	134	8.766	8.766	0.000	92	302898	25.0	25.4	
107 1,2,4-Trimethylbenzene	105	8.807	8.807	0.000	97	1382587	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	1573481	25.0	24.8	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	98	1421522	25.0	25.4	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	99	804596	25.0	24.1	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	95	829322	25.0	24.5	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	1147857	25.0	24.0	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	98	805594	25.0	24.2	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	85	70953	25.0	24.1	
119 1,2,4-Trichlorobenzene	180	10.776	10.776	0.000	95	585174	25.0	24.2	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	96	247928	25.0	27.7	
121 Naphthalene	128	10.994	10.994	0.000	97	1521487	25.0	22.5	
122 1,2,3-Trichlorobenzene	180	11.181	11.181	0.000	97	549769	25.0	23.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00148	Amount Added: 12.50	Units: uL	
GAS CORP mix_00329	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5029.D

Injection Date: 02-Mar-2019 13:43:30

Instrument ID: HP5973C

Operator ID: OI

Lims ID: CCVIS

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

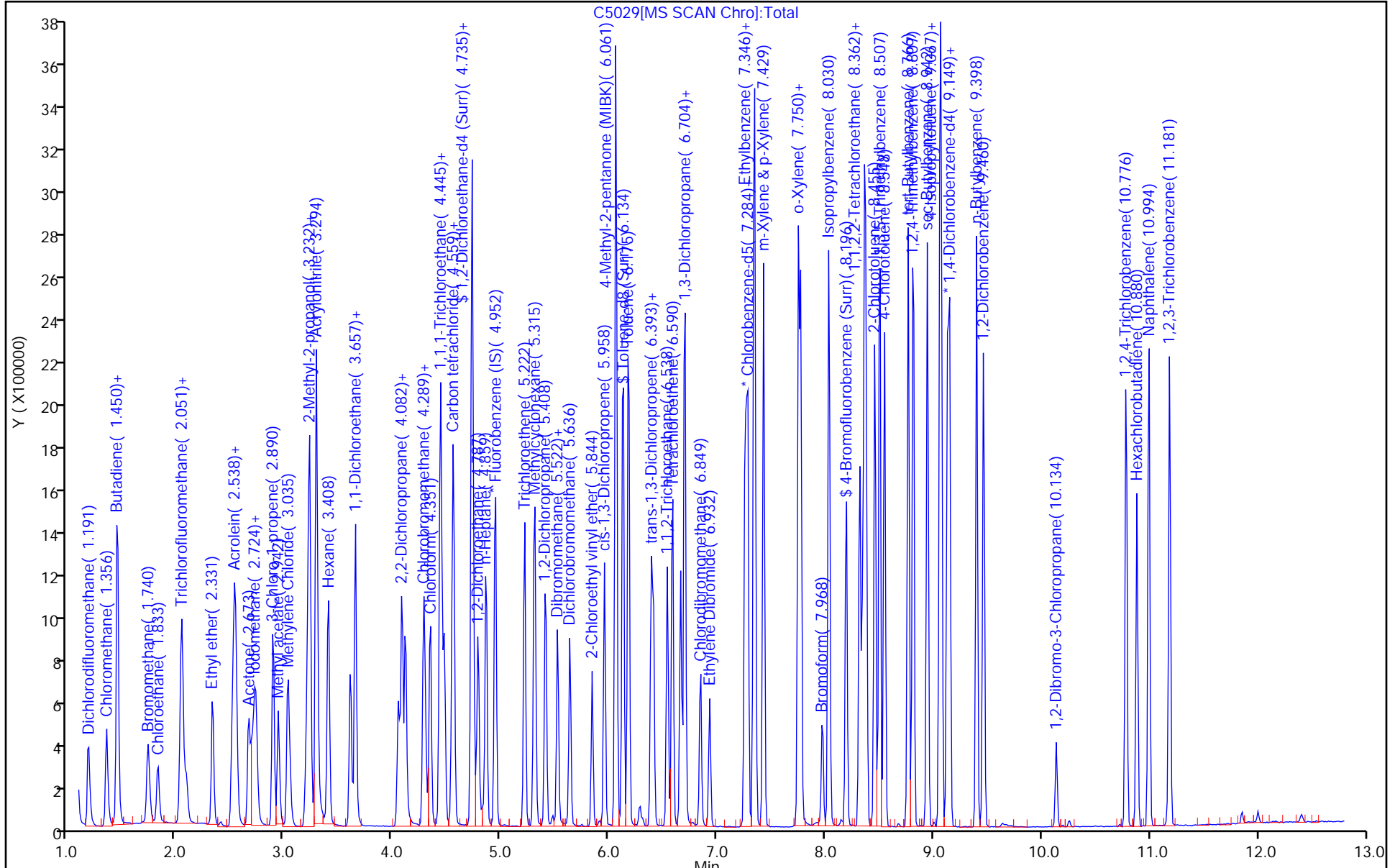
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

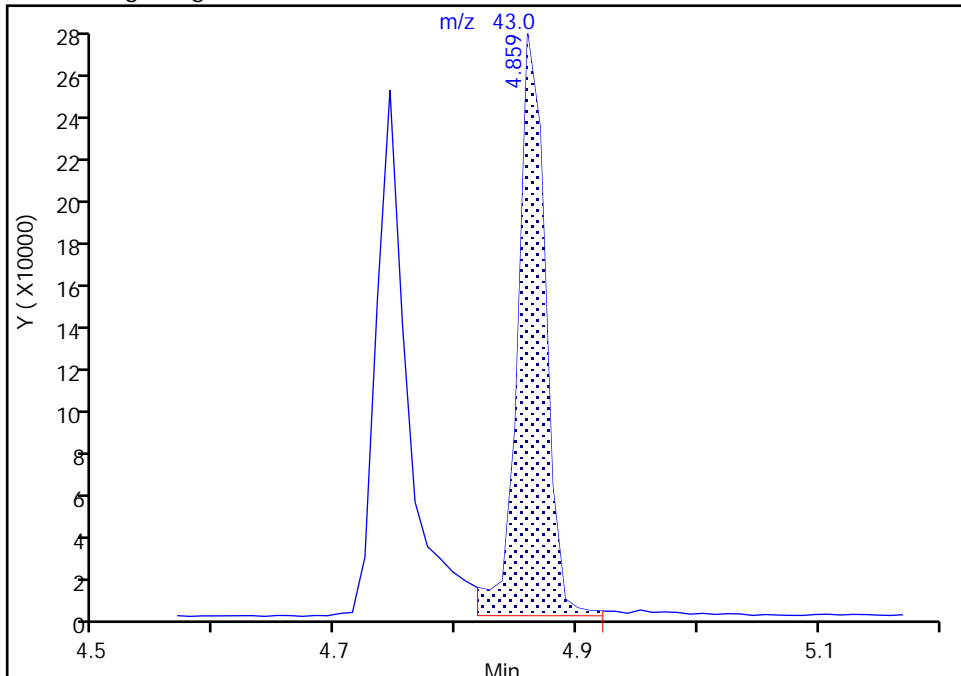
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5029.D
Injection Date: 02-Mar-2019 13:43:30 Instrument ID: HP5973C
Lims ID: CCVIS
Client ID:
Operator ID: OI ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

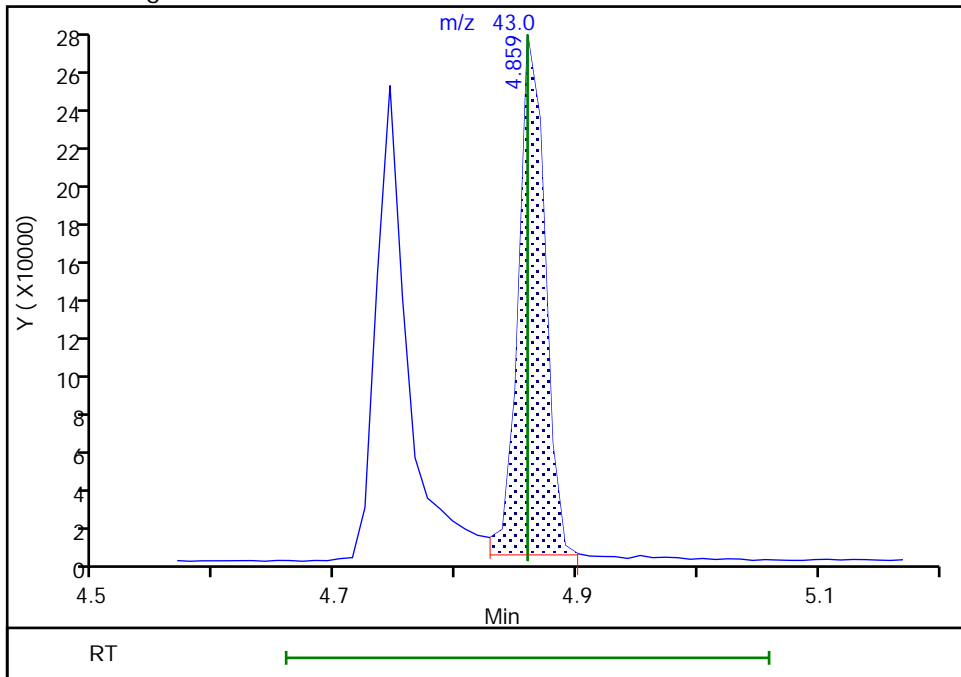
RT: 4.86
Area: 449682
Amount: 31.032155
Amount Units: ug/L

Processing Integration Results



RT: 4.86
Area: 423215
Amount: 29.205691
Amount Units: ug/L

Manual Integration Results



Reviewer: izquierdoo, 02-Mar-2019 14:27:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3449.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 09-Jan-2019 13:33:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0077863-002
 Operator ID: KN Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2019 10:06:45 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0324

First Level Reviewer: nowakk Date: 09-Jan-2019 13:45:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	5.096	5.096	0.000	0	364895	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

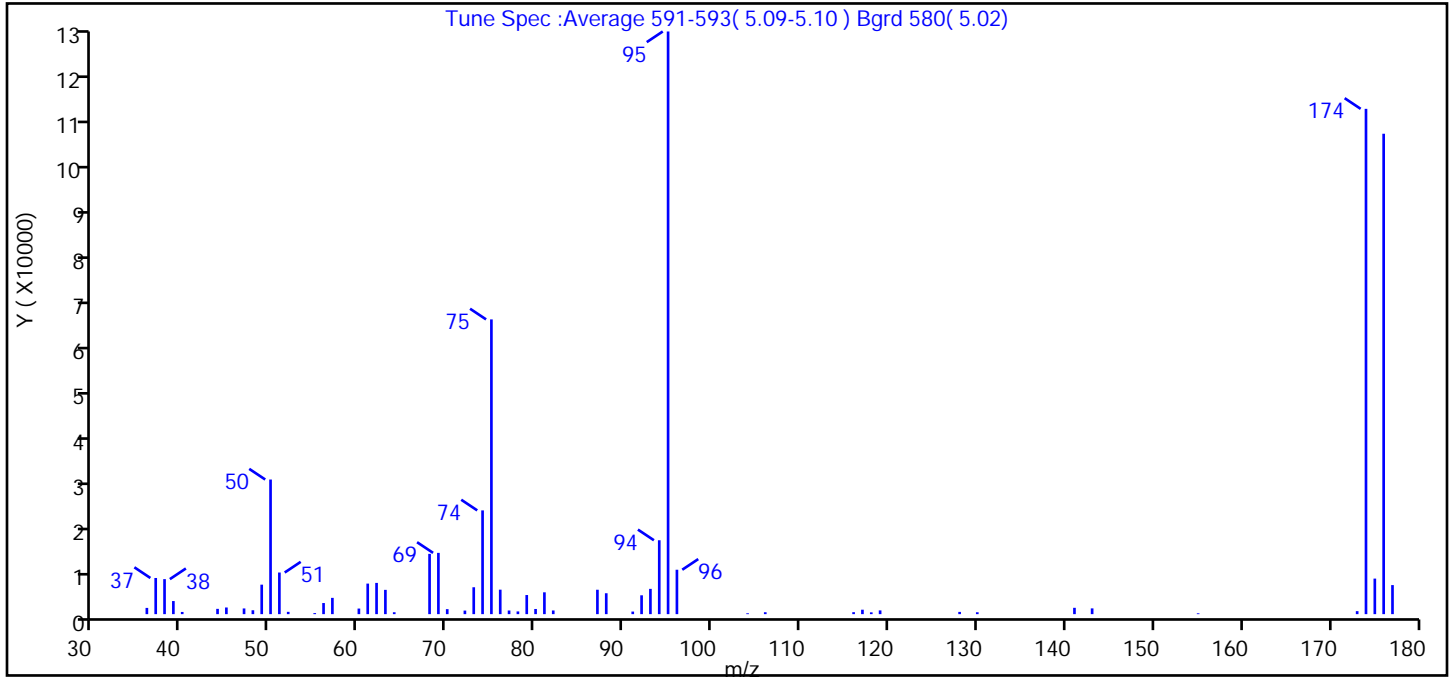
Reagents:

BFB_WRK_00082 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3449.D
 Injection Date: 09-Jan-2019 13:33:30 Instrument ID: HP5973C
 Lims ID: BFB
 Client ID:
 Operator ID: KN ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.1
75	30 to 60% of m/z 95	50.6
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	86.7
175	5 to 9% of m/z 174	6.1 (7.0)
176	Greater than 95% but less than 101% of m/z 174	82.4 (95.1)
177	5 to 9% of m/z 176	5.0 (6.0)

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3449.D\C-8260.rslt\spectra.d
Injection Date: 09-Jan-2019 13:33:30
Spectrum: Tune Spec :Average 591-593(5.09-5.10) Bgrd 580(5.02)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1309	57.00	3417	78.00	570	116.00	413
37.00	7590	60.00	1172	79.00	4011	117.00	932
38.00	7348	61.00	6411	80.00	1084	118.00	379
39.00	2748	62.00	6556	81.00	4583	119.00	786
40.00	461	63.00	5097	82.00	773	128.00	472
44.00	1109	64.00	398	87.00	5122	130.00	397
45.00	1398	68.00	12653	88.00	4387	141.00	1329
47.00	1195	69.00	12860	91.00	542	143.00	1209
48.00	818	70.00	1049	92.00	3955	155.00	174
49.00	6188	72.00	748	93.00	5305	173.00	629
50.00	28256	73.00	5645	94.00	15509	174.00	106056
51.00	8737	74.00	21776	95.00	122296	175.00	7460
52.00	484	75.00	61864	96.00	9320	176.00	100832
55.00	220	76.00	5137	104.00	180	177.00	6098
56.00	2332	77.00	764	106.00	401		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4975.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Mar-2019 09:03:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0079046-002
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 09:17:25 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0313

First Level Reviewer: nowakk Date: 01-Mar-2019 09:17:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	5.706	5.706	0.000	0	316251	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

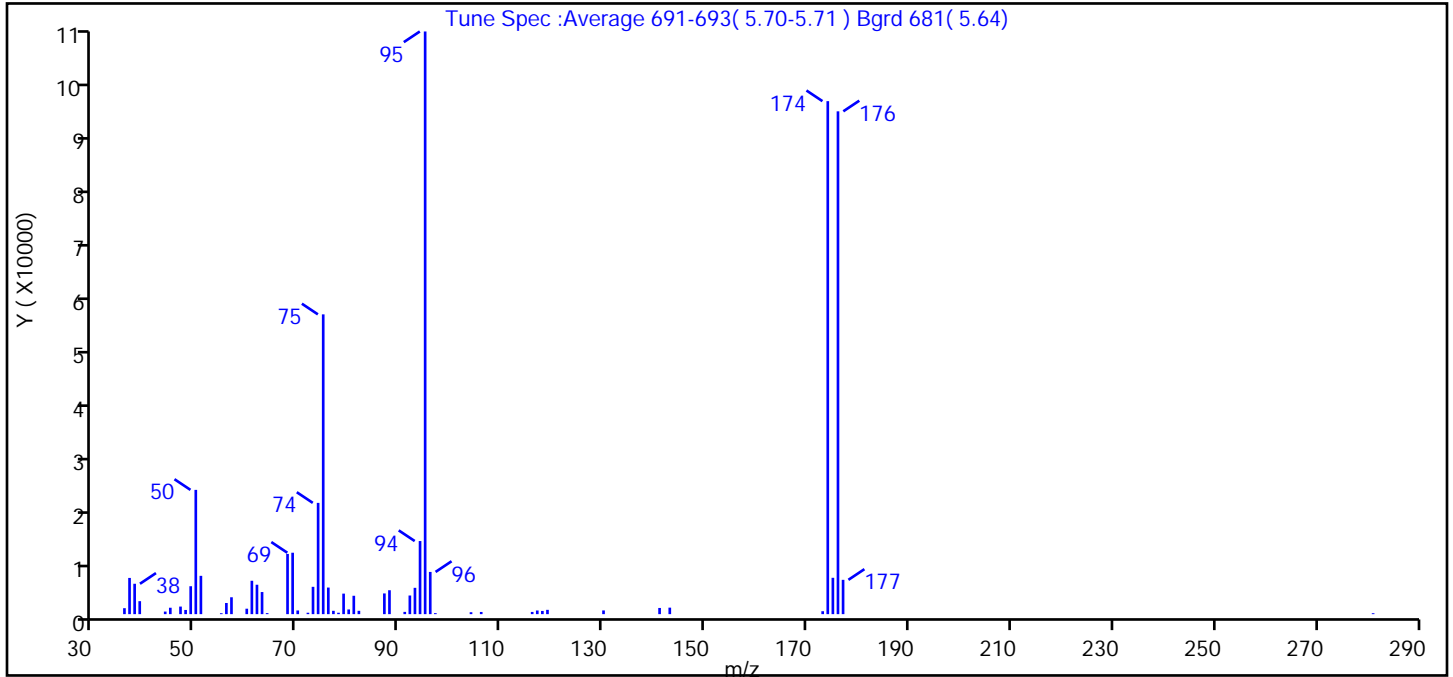
Reagents:

BFB_WRK_00083 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4975.D
 Injection Date: 01-Mar-2019 09:03:30 Instrument ID: HP5973C
 Lims ID: BFB
 Client ID:
 Operator ID: kn ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.3
75	30 to 60% of m/z 95	51.5
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	88.0
175	5 to 9% of m/z 174	6.2 (7.1)
176	Greater than 95% but less than 101% of m/z 174	86.3 (98.0)
177	5 to 9% of m/z 176	5.9 (6.8)

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4975.D\C-8260.rslt\spectra.d
Injection Date: 01-Mar-2019 09:03:30
Spectrum: Tune Spec :Average 691-693(5.70-5.71) Bgrd 681(5.64)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1100	61.00	6163	80.00	866	117.00	674
37.00	6686	62.00	5430	81.00	3392	118.00	591
38.00	5609	63.00	4081	82.00	615	119.00	794
39.00	2396	64.00	187	87.00	3824	130.00	686
44.00	476	68.00	11119	88.00	4415	141.00	1142
45.00	1183	69.00	11341	91.00	418	143.00	1199
47.00	1398	70.00	678	92.00	3441	173.00	541
48.00	771	72.00	261	93.00	4859	174.00	94720
49.00	5156	73.00	5044	94.00	13496	175.00	6711
50.00	22944	74.00	20544	95.00	107584	176.00	92840
51.00	7073	75.00	55352	96.00	7796	177.00	6336
55.00	168	76.00	4909	97.00	185	281.00	168
56.00	2059	77.00	614	104.00	355		
57.00	3116	78.00	259	106.00	403		
60.00	1004	79.00	3790	116.00	409		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5000.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Mar-2019 20:47:30 ALS Bottle#: 1 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0079070-002
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 21:27:01 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln Date: 01-Mar-2019 21:27:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	5.693	5.693	0.000	0	338131	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

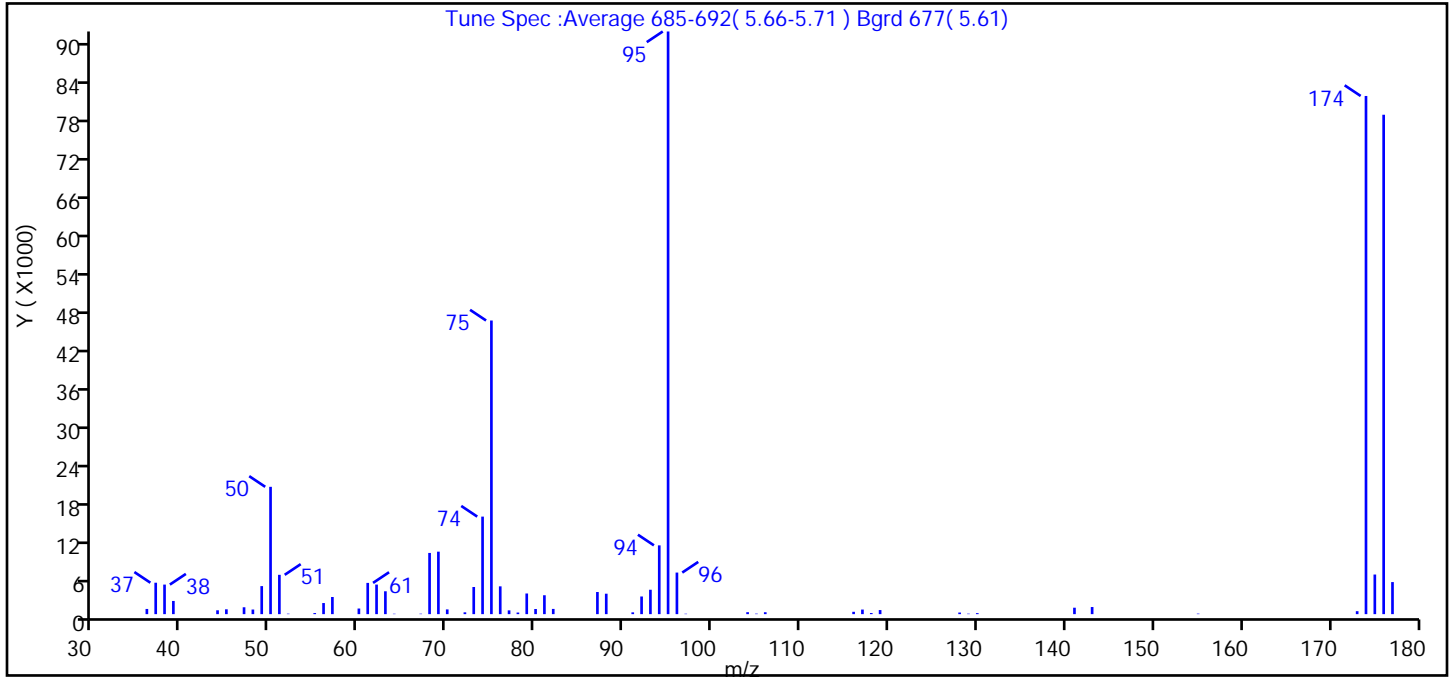
Reagents:

BFB_WRK_00083 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5000.D
 Injection Date: 01-Mar-2019 20:47:30 Instrument ID: HP5973C
 Lims ID: BFB
 Client ID:
 Operator ID: NC ALS Bottle#: 1 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.9
75	30 to 60% of m/z 95	50.4
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	88.9
175	5 to 9% of m/z 174	6.8 (7.6)
176	Greater than 95% but less than 101% of m/z 174	85.7 (96.4)
177	5 to 9% of m/z 176	5.5 (6.4)

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5000.D\C-8260.rslt\spectra.d
Injection Date: 01-Mar-2019 20:47:30
Spectrum: Tune Spec :Average 685-692(5.66-5.71) Bgrd 677(5.61)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	819	61.00	4929	80.00	810	117.00	724
37.00	4958	62.00	4666	81.00	2982	118.00	176
38.00	4664	63.00	3608	82.00	825	119.00	645
39.00	2081	64.00	63	87.00	3491	128.00	254
44.00	607	67.00	70	88.00	3225	129.00	74
45.00	765	68.00	9656	91.00	284	130.00	161
47.00	1085	69.00	9858	92.00	2786	141.00	1015
48.00	728	70.00	747	93.00	3850	143.00	1122
49.00	4423	72.00	286	94.00	10852	155.00	81
50.00	20088	73.00	4283	95.00	91928	173.00	467
51.00	6204	74.00	15388	96.00	6559	174.00	81752
52.00	73	75.00	46328	97.00	64	175.00	6250
55.00	171	76.00	4386	104.00	310	176.00	78792
56.00	1752	77.00	595	105.00	80	177.00	5058
57.00	2704	78.00	254	106.00	301		
60.00	886	79.00	3258	116.00	370		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5026.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 02-Mar-2019 12:06:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0079075-002
 Operator ID: OI Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 12:17:09 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdoo Date: 02-Mar-2019 12:17:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	5.718	5.718	0.000	0	280986	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

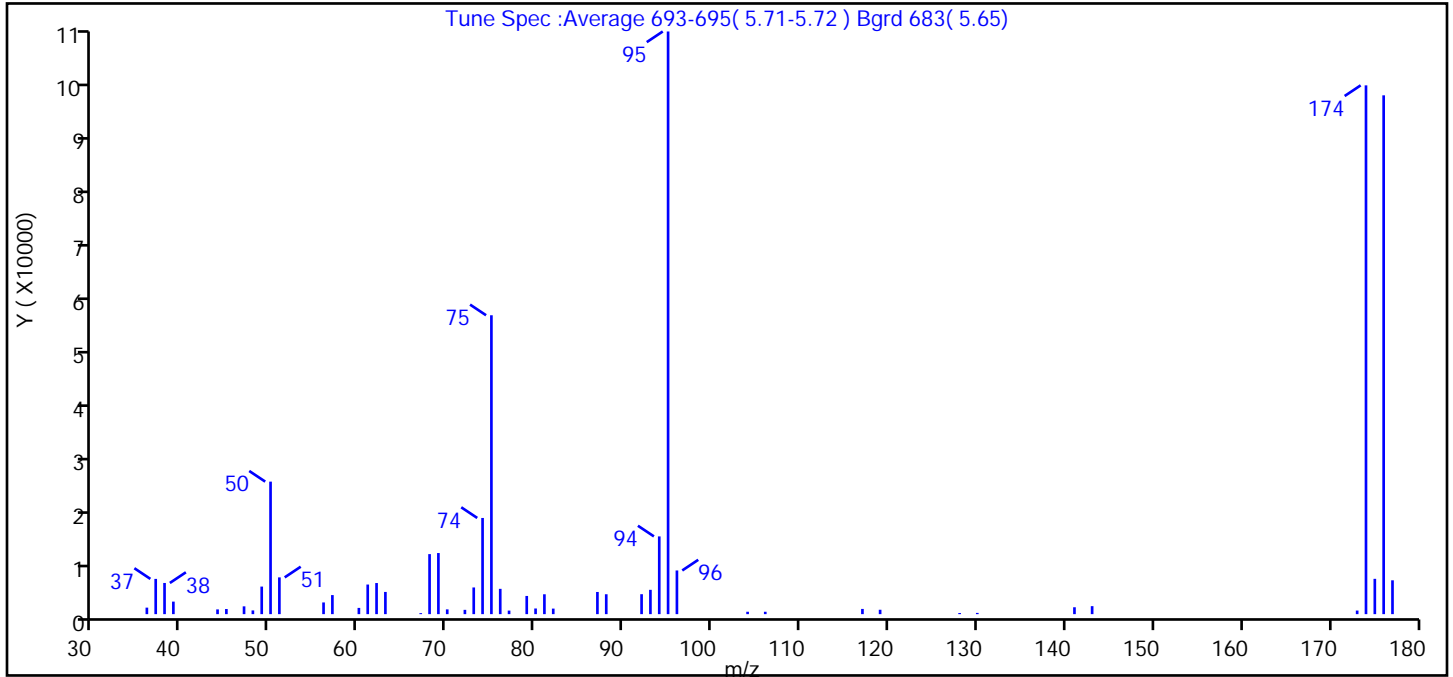
Reagents:

BFB_WRK_00083 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5026.D
 Injection Date: 02-Mar-2019 12:06:30 Instrument ID: HP5973C
 Lims ID: BFB
 Client ID:
 Operator ID: OI ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.7
75	30 to 60% of m/z 95	51.3
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	90.8
175	5 to 9% of m/z 174	6.1 (6.7)
176	Greater than 95% but less than 101% of m/z 174	89.0 (98.1)
177	5 to 9% of m/z 176	5.8 (6.5)

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5026.D\C-8260.rslt\spectra.d
 Injection Date: 02-Mar-2019 12:06:30
 Spectrum: Tune Spec :Average 693-695(5.71-5.72) Bgrd 683(5.65)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1134	60.00	1086	77.00	618	106.00	416
37.00	6138	61.00	5157	79.00	3168	117.00	908
38.00	5430	62.00	5417	80.00	985	119.00	764
39.00	2183	63.00	3868	81.00	3461	128.00	196
44.00	827	67.00	176	82.00	965	130.00	217
45.00	893	68.00	10455	87.00	3861	141.00	1200
47.00	1358	69.00	10642	88.00	3466	143.00	1392
48.00	650	70.00	831	92.00	3474	173.00	625
49.00	4800	72.00	749	93.00	4236	174.00	92096
50.00	23080	73.00	4647	94.00	13539	175.00	6150
51.00	6404	74.00	16752	95.00	101480	176.00	90360
56.00	2037	75.00	52056	96.00	7607	177.00	5892
57.00	3319	76.00	4407	104.00	416		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461126/9
 Matrix: Water Lab File ID: C4981.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461126/9
 Matrix: Water Lab File ID: C4981.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461126/9
 Matrix: Water Lab File ID: C4981.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4981.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Mar-2019 12:04:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0079046-009
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:21:09 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln

Date: 01-Mar-2019 17:21:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	210381	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	85	472920	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.128	0.001	95	505325	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.475	0.001	94	316255	25.0	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.001	98	194750	25.0	26.4	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	93	1199678	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	403404	25.0	27.1	
10 Dichlorodifluoromethane	85		1.180					ND	
11 Chlorodifluoromethane	51		1.201					ND	
12 Chloromethane	50		1.356					ND	
13 Vinyl chloride	62		1.449					ND	
151 Butadiene	54		1.449					ND	
14 Bromomethane	94		1.740					ND	
15 Chloroethane	64		1.822					ND	
16 Dichlorofluoromethane	67		2.050					ND	
17 Trichlorofluoromethane	101		2.050					ND	
18 Ethyl ether	59		2.330					ND	
148 Ethanol	45		2.330					ND	
20 Acrolein	56		2.517					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.527					ND	
22 1,1-Dichloroethene	96		2.548					ND	
23 Acetone	43		2.672					ND	
25 Iodomethane	142		2.703					ND	
26 Carbon disulfide	76		2.734					ND	
24 Isopropyl alcohol	45		2.848					ND	
28 3-Chloro-1-propene	41		2.890					ND	
27 Methyl acetate	43		2.942					ND	
29 Acetonitrile	40		2.962					ND	
30 Methylene Chloride	84	3.046	3.035	0.011	95	3144		0.2261	
31 2-Methyl-2-propanol	59		3.201					ND	
32 Methyl tert-butyl ether	73		3.221					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.232					ND	
33 Acrylonitrile	53		3.294					ND	
35 Hexane	57	3.398	3.408	-0.010	45	2342		0.1556	
39 1,1-Dichloroethane	63		3.605					ND	
36 Isopropyl ether	45		3.615					ND	
135 Halothane	117		3.647					ND	
37 Vinyl acetate	43		3.657					ND	
40 2-Chloro-1,3-butadiene	53		3.657					ND	
38 1,1-Dimethoxyethane	75		3.688					ND	
41 Tert-butyl ethyl ether	59		3.905					ND	
19 Propene oxide	58		3.906					ND	
44 2,2-Dichloropropane	77		4.051					ND	
45 cis-1,2-Dichloroethene	96		4.082					ND	
42 Ethyl acetate	43		4.133					ND	
43 2-Butanone (MEK)	43		4.134					ND	
46 Propionitrile	54		4.206					ND	
48 Chlorobromomethane	128		4.289					ND	
47 Methacrylonitrile	41		4.299					ND	
49 Tetrahydrofuran	42		4.299					ND	
50 Chloroform	83		4.351					ND	
51 1,1,1-Trichloroethane	97		4.434					ND	
52 Cyclohexane	56		4.444					ND	
55 Carbon tetrachloride	117		4.548					ND	
54 1,1-Dichloropropene	75		4.558					ND	
152 Isooctane	57		4.714					ND	
57 Benzene	78		4.734					ND	
53 Isobutyl alcohol	43		4.745					ND	U
58 1,2-Dichloroethane	62		4.786					ND	U
147 t-Amyl alcohol	59		4.786					ND	
56 Tert-amyl methyl ether	73		4.786					ND	
59 n-Heptane	43		4.859					ND	
1 1,4-Difluorobenzene	114		5.035					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.118					ND	
62 Trichloroethene	95		5.222					ND	
60 n-Butanol	56		5.232					ND	
142 Ethyl acrylate	55		5.304					ND	U
140 2,4,4-Trimethyl-2-pentene	97		5.305					ND	
64 Methylcyclohexane	83		5.315					ND	
65 1,2-Dichloropropane	63		5.408					ND	
63 Methyl methacrylate	41		5.481					ND	
67 Dibromomethane	93		5.522					ND	
66 1,4-Dioxane	88		5.522					ND	
68 Dichlorobromomethane	83		5.636					ND	
69 2-Chloroethyl vinyl ether	63		5.843					ND	
70 2-Nitropropane	43		5.844					ND	
71 Epichlorohydrin	57		5.926					ND	
72 cis-1,3-Dichloropropene	75		5.957					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.061					ND	U
74 Toluene	92		6.175					ND	
76 2-Methylthiophene	97		6.289					ND	
77 trans-1,3-Dichloropropene	75		6.393					ND	
75 Ethyl methacrylate	69		6.413					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.413					ND	U
79 1,1,2-Trichloroethane	83		6.538					ND	
81 Tetrachloroethene	166		6.589					ND	
82 1,3-Dichloropropane	76		6.662					ND	
80 2-Hexanone	43		6.703					ND	
155 n-Butyl acetate	43		6.766					ND	
83 Chlorodibromomethane	129		6.849					ND	
84 Ethylene Dibromide	107		6.931					ND	
146 1-Chlorohexane	55		7.222					ND	
85 3-Chlorobenzotrifluoride	180		7.242					ND	
87 Chlorobenzene	112		7.284					ND	
86 4-Chlorobenzotrifluoride	180		7.284					ND	
88 Ethylbenzene	91		7.336					ND	
89 1,1,1,2-Tetrachloroethane	131		7.346					ND	
90 m-Xylene & p-Xylene	106		7.429					ND	
91 o-Xylene	106		7.750					ND	
92 Styrene	104		7.771					ND	
95 Bromoform	173		7.968					ND	
93 2-Chlorobenzotrifluoride	180		7.978					ND	
94 Isopropylbenzene	105		8.030					ND	
96 Cyclohexanone	55		8.185					ND	
101 Bromobenzene	156		8.320					ND	
97 1,1,2,2-Tetrachloroethane	83		8.341					ND	
99 N-Propylbenzene	91		8.362					ND	
98 trans-1,4-Dichloro-2-buten	53		8.382					ND	
100 1,2,3-Trichloropropane	110		8.382					ND	
103 2-Chlorotoluene	126		8.455					ND	
102 1,3,5-Trimethylbenzene	105		8.507					ND	
104 3-Chlorotoluene	126		8.507					ND	
105 4-Chlorotoluene	126		8.548					ND	
106 tert-Butylbenzene	134		8.766					ND	
107 1,2,4-Trimethylbenzene	105		8.818					ND	
108 Pentachloroethane	167		8.828					ND	
109 sec-Butylbenzene	105		8.942					ND	
110 4-Isopropyltoluene	119		9.056					ND	
111 1,3-Dichlorobenzene	146		9.077					ND	U
114 Dicyclopentadiene	66		9.128					ND	
113 1,4-Dichlorobenzene	146		9.149					ND	U
112 1,2,3-Trimethylbenzene	105		9.170					ND	
150 Benzyl chloride	126		9.274					ND	
115 n-Butylbenzene	91		9.398					ND	
116 1,2-Dichlorobenzene	146		9.460					ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134					ND	
118 1,3,5-Trichlorobenzene	180		10.258					ND	
119 1,2,4-Trichlorobenzene	180		10.776					ND	
120 Hexachlorobutadiene	225		10.880					ND	
121 Naphthalene	128		10.994					ND	
122 1,2,3-Trichlorobenzene	180		11.180					ND	
149 2-Methylnaphthalene	142		11.854					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
137 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4981.D

Injection Date: 01-Mar-2019 12:04:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

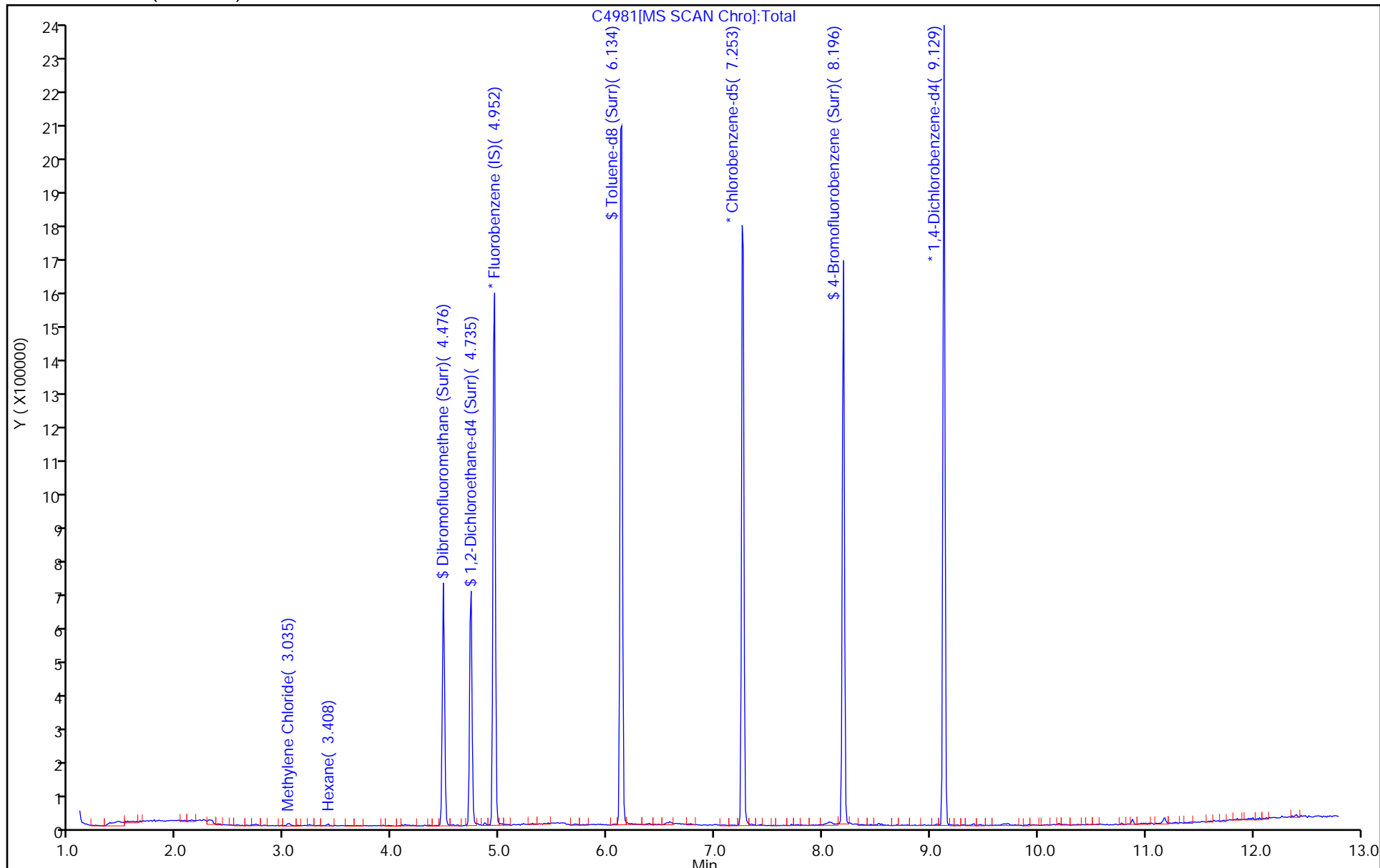
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

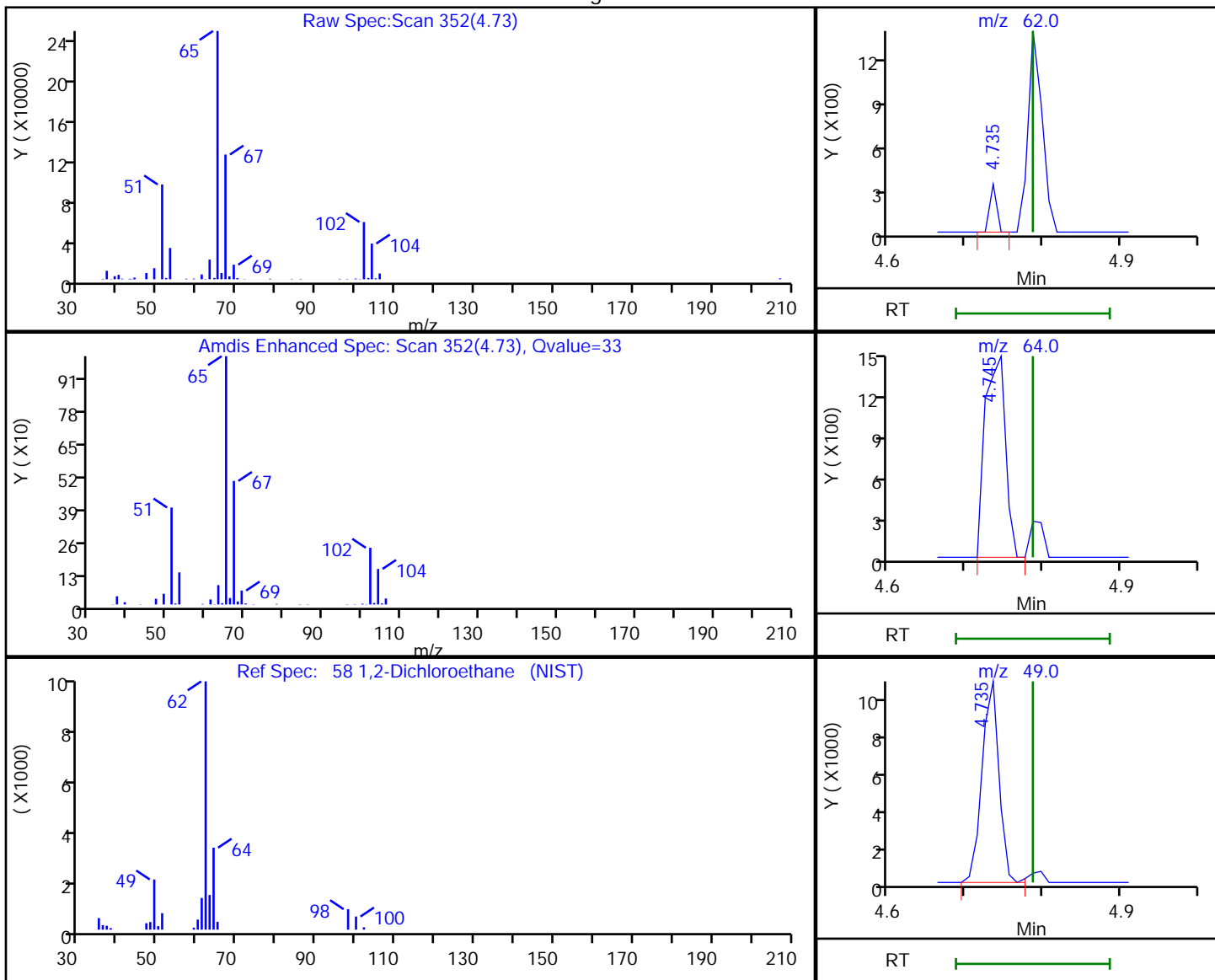


TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4981.D
 Injection Date: 01-Mar-2019 12:04:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: kn ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.73	62.00	206	0.009950
4.75	64.00	2707	
4.73	49.00	16793	

Reviewer: nowakk, 01-Mar-2019 12:21:29

Audit Action: Marked Compound Undetected

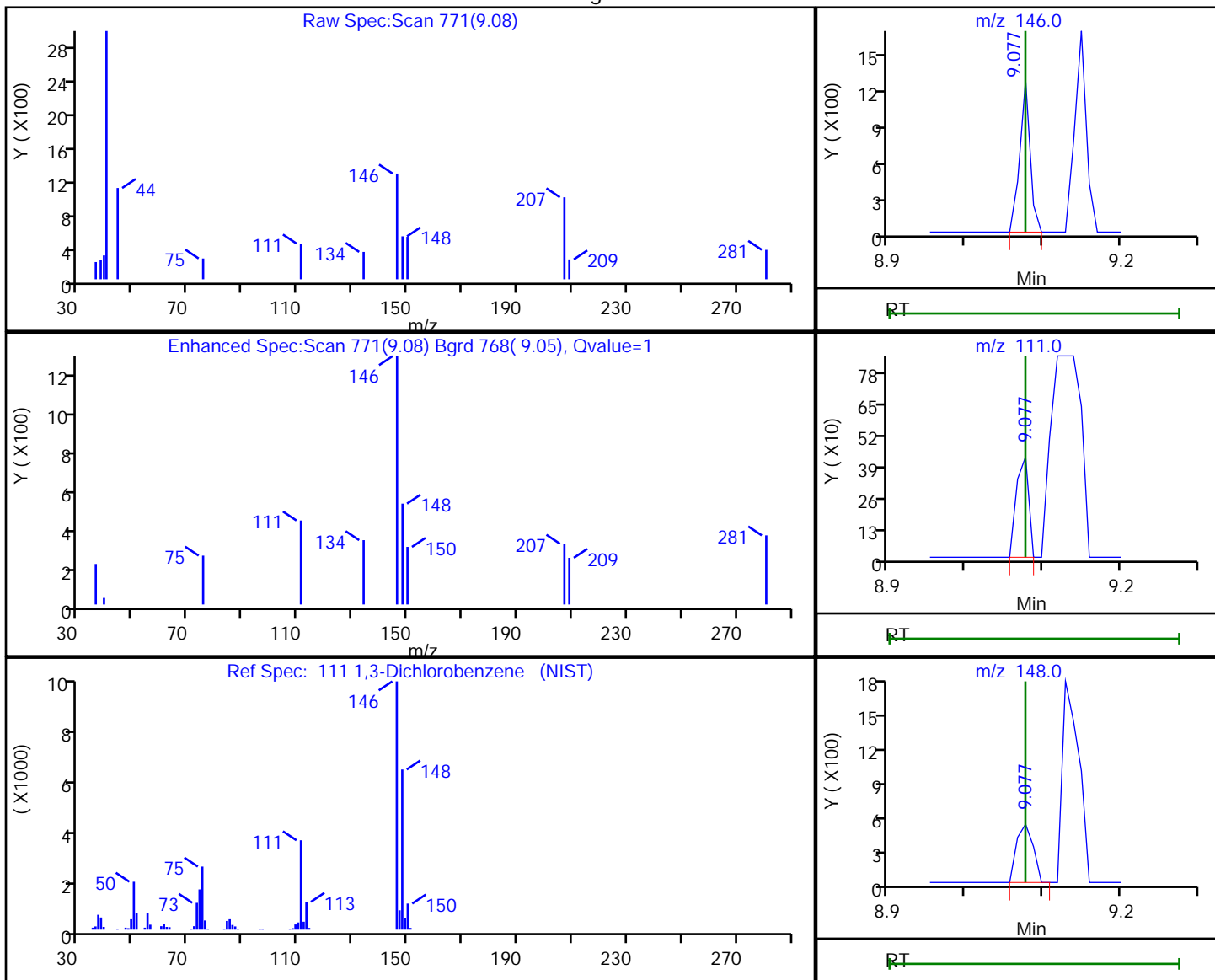
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4981.D
 Injection Date: 01-Mar-2019 12:04:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: kn ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.08	146.00	1172	0.032639
9.08	111.00	468	
9.08	148.00	754	

Reviewer: nowakk, 01-Mar-2019 12:21:39

Audit Action: Marked Compound Undetected

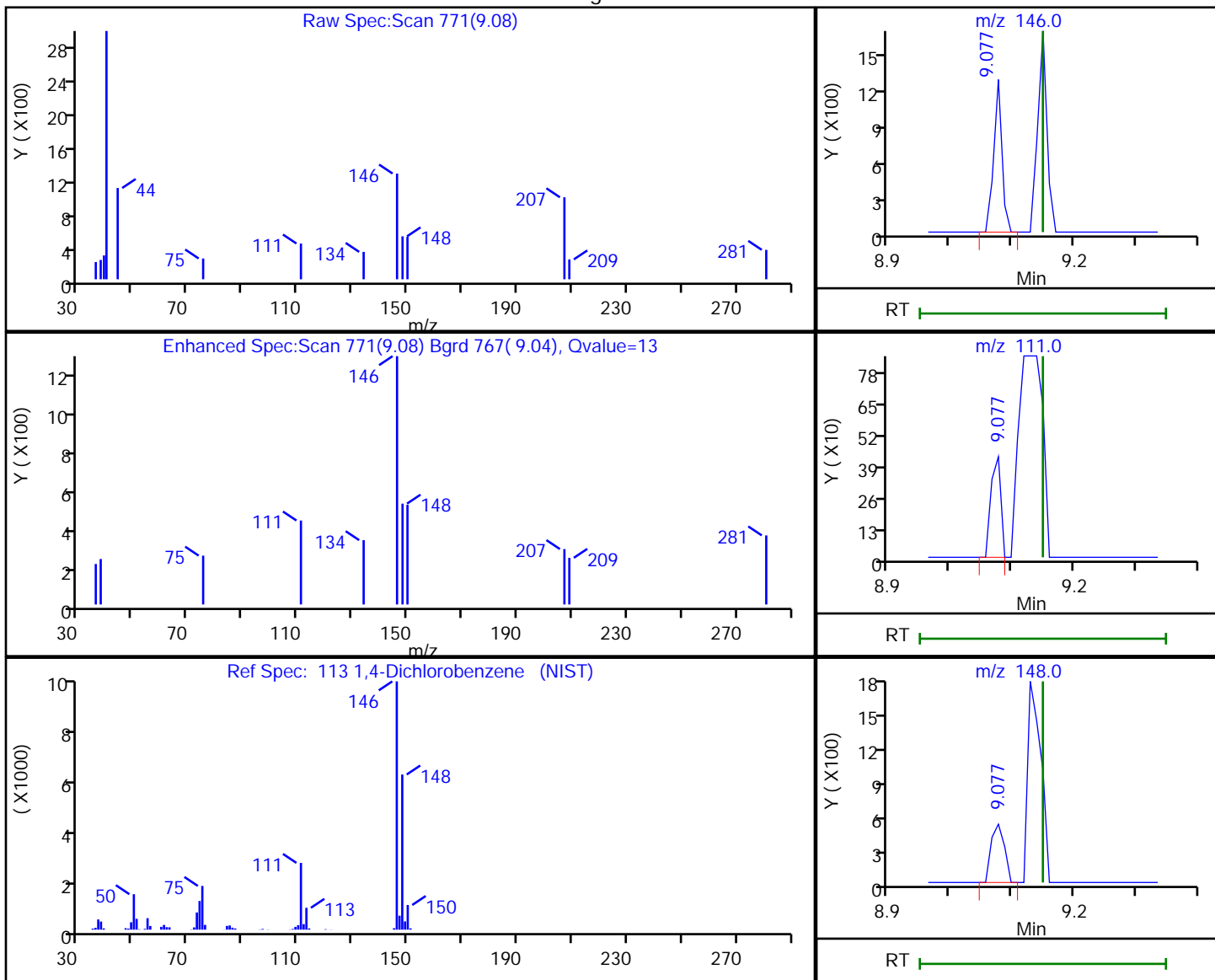
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4981.D
 Injection Date: 01-Mar-2019 12:04:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: kn ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.08	146.00	1172	0.032228
9.08	111.00	468	
9.08	148.00	753	

Reviewer: nowakk, 01-Mar-2019 12:21:40

Audit Action: Marked Compound Undetected

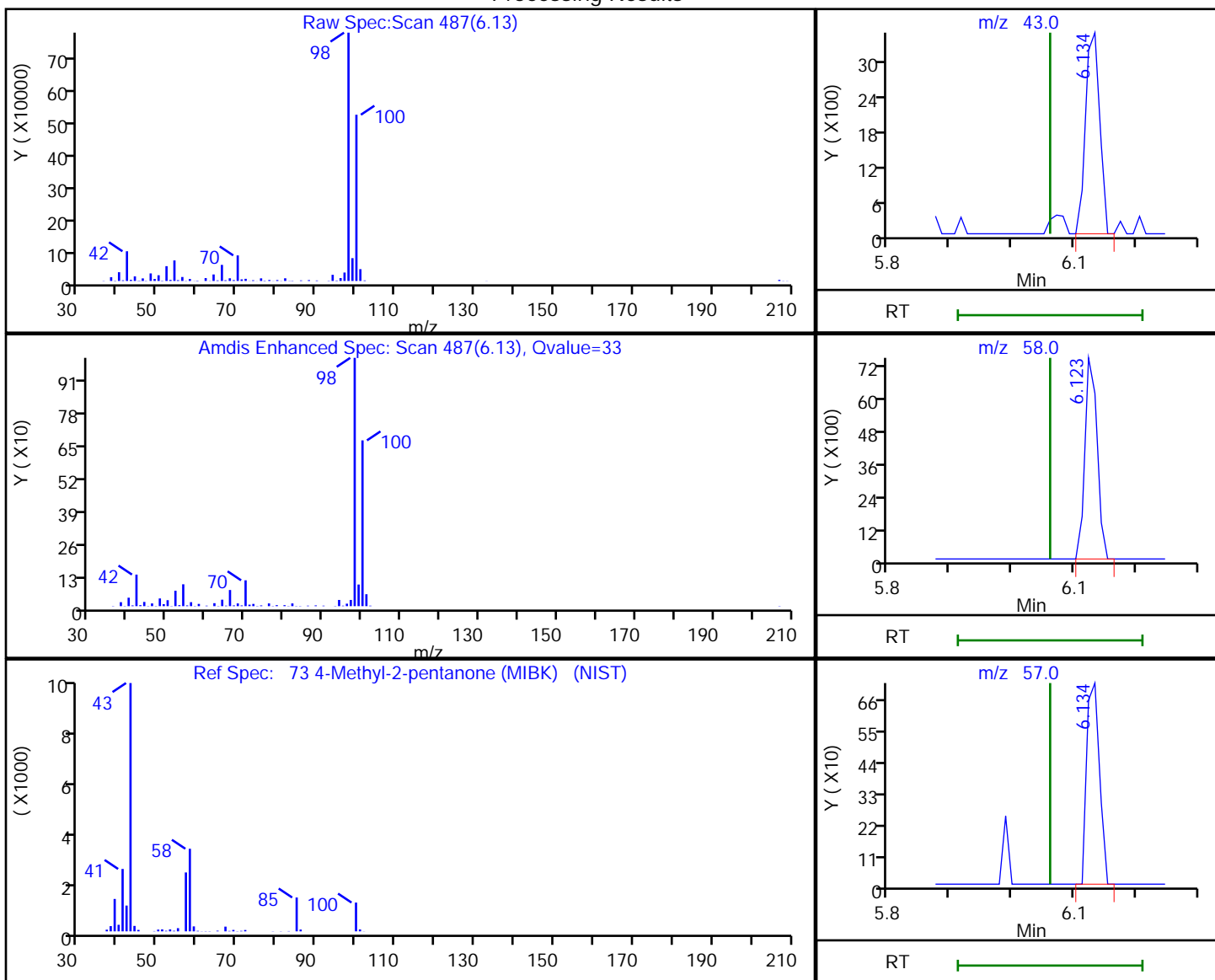
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4981.D
 Injection Date: 01-Mar-2019 12:04:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: kn ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.13	43.00	5516	0.309939
6.12	58.00	10206	
6.13	57.00	1035	

Reviewer: nowakk, 01-Mar-2019 12:21:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461282/9
 Matrix: Water Lab File ID: C5007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 00:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461282/9
 Matrix: Water Lab File ID: C5007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 00:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461282/9
 Matrix: Water Lab File ID: C5007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 00:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 0.413

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
87-68-3	Hexachlorobutadiene	10.88	0.413	J	89%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 02-Mar-2019 00:12:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0079070-009
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 00:30:57 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln Date: 02-Mar-2019 00:46:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	218245	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.263	0.000	86	470198	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.129	-0.001	95	508598	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.475	-0.001	93	311635	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	98	192657	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	94	1196609	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	96	410306	25.0	27.7	
10 Dichlorodifluoromethane	85		1.190					ND	
11 Chlorodifluoromethane	51		1.211					ND	
12 Chloromethane	50		1.356					ND	
13 Vinyl chloride	62		1.450					ND	
151 Butadiene	54		1.460					ND	U
14 Bromomethane	94		1.740					ND	
15 Chloroethane	64		1.833					ND	
16 Dichlorofluoromethane	67		2.051					ND	
17 Trichlorofluoromethane	101		2.051					ND	
18 Ethyl ether	59		2.330					ND	
148 Ethanol	45		2.361					ND	
20 Acrolein	56		2.517					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.538					ND	
22 1,1-Dichloroethene	96		2.548					ND	
23 Acetone	43		2.662					ND	
25 Iodomethane	142		2.714					ND	
26 Carbon disulfide	76		2.735					ND	U
24 Isopropyl alcohol	45		2.859					ND	
28 3-Chloro-1-propene	41		2.890					ND	
29 Acetonitrile	40		2.900					ND	
27 Methyl acetate	43		2.942					ND	
30 Methylene Chloride	84	3.035	3.035	0.000	95	5283		0.3663	
31 2-Methyl-2-propanol	59		3.211					ND	
32 Methyl tert-butyl ether	73		3.222					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.242					ND	
33 Acrylonitrile	53		3.294					ND	
35 Hexane	57	3.408	3.408	0.000	52	2066		0.1323	
39 1,1-Dichloroethane	63		3.605					ND	
36 Isopropyl ether	45		3.615					ND	
135 Halothane	117		3.646					ND	
37 Vinyl acetate	43		3.657					ND	
40 2-Chloro-1,3-butadiene	53		3.657					ND	
38 1,1-Dimethoxyethane	75		3.688					ND	
19 Propene oxide	58		3.906					ND	
41 Tert-butyl ethyl ether	59		3.906					ND	
44 2,2-Dichloropropane	77		4.051					ND	
45 cis-1,2-Dichloroethene	96		4.082					ND	
43 2-Butanone (MEK)	43		4.113					ND	
42 Ethyl acetate	43		4.134					ND	
46 Propionitrile	54		4.216					ND	
48 Chlorobromomethane	128		4.289					ND	
49 Tetrahydrofuran	42		4.299					ND	
47 Methacrylonitrile	41		4.299					ND	
50 Chloroform	83		4.351					ND	
51 1,1,1-Trichloroethane	97		4.444					ND	
52 Cyclohexane	56		4.444					ND	
54 1,1-Dichloropropene	75		4.558					ND	
55 Carbon tetrachloride	117		4.558					ND	
152 Isooctane	57		4.714					ND	
57 Benzene	78		4.735					ND	
53 Isobutyl alcohol	43		4.745					ND	U
56 Tert-amyl methyl ether	73		4.786					ND	
58 1,2-Dichloroethane	62		4.786					ND	U
147 t-Amyl alcohol	59		4.797					ND	
59 n-Heptane	43		4.859					ND	
1 1,4-Difluorobenzene	114		5.035					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.118					ND	
62 Trichloroethene	95		5.222					ND	
60 n-Butanol	56		5.242					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.304					ND	
142 Ethyl acrylate	55		5.315					ND	U
64 Methylcyclohexane	83		5.315					ND	
65 1,2-Dichloropropane	63		5.408					ND	
63 Methyl methacrylate	41		5.481					ND	
67 Dibromomethane	93		5.522					ND	
66 1,4-Dioxane	88		5.522					ND	
68 Dichlorobromomethane	83		5.636					ND	
69 2-Chloroethyl vinyl ether	63		5.843					ND	
70 2-Nitropropane	43		5.843					ND	
71 Epichlorohydrin	57		5.926					ND	
72 cis-1,3-Dichloropropene	75		5.957					ND	U
73 4-Methyl-2-pentanone (MIBK)	43		6.061					ND	U
74 Toluene	92		6.175					ND	
76 2-Methylthiophene	97		6.289					ND	
77 trans-1,3-Dichloropropene	75		6.393					ND	
78 3-Methylthiophene	97		6.413					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		6.413					ND	
79 1,1,2-Trichloroethane	83		6.538					ND	
81 Tetrachloroethene	166		6.590					ND	
82 1,3-Dichloropropane	76		6.662					ND	
80 2-Hexanone	43		6.704					ND	
155 n-Butyl acetate	43		6.776					ND	
83 Chlorodibromomethane	129		6.849					ND	
84 Ethylene Dibromide	107		6.932					ND	
146 1-Chlorohexane	55		7.222					ND	
85 3-Chlorobenzotrifluoride	180		7.232					ND	
86 4-Chlorobenzotrifluoride	180		7.284					ND	
87 Chlorobenzene	112		7.284					ND	
88 Ethylbenzene	91		7.336					ND	
89 1,1,1,2-Tetrachloroethane	131		7.346					ND	
90 m-Xylene & p-Xylene	106		7.429					ND	
91 o-Xylene	106		7.750					ND	
92 Styrene	104		7.771					ND	
95 Bromoform	173		7.968					ND	
93 2-Chlorobenzotrifluoride	180		7.978					ND	
94 Isopropylbenzene	105		8.030					ND	
96 Cyclohexanone	55		8.186					ND	
101 Bromobenzene	156		8.320					ND	
97 1,1,2,2-Tetrachloroethane	83		8.341					ND	
99 N-Propylbenzene	91		8.362					ND	
98 trans-1,4-Dichloro-2-buten	53		8.382					ND	
100 1,2,3-Trichloropropane	110		8.382					ND	
103 2-Chlorotoluene	126		8.455					ND	
102 1,3,5-Trimethylbenzene	105		8.507					ND	
104 3-Chlorotoluene	126		8.548					ND	
105 4-Chlorotoluene	126		8.548					ND	
106 tert-Butylbenzene	134		8.766					ND	
107 1,2,4-Trimethylbenzene	105		8.818					ND	
108 Pentachloroethane	167		8.828					ND	
109 sec-Butylbenzene	105		8.942					ND	
110 4-Isopropyltoluene	119		9.056					ND	U
111 1,3-Dichlorobenzene	146		9.077					ND	
114 Dicyclopentadiene	66		9.129					ND	
113 1,4-Dichlorobenzene	146		9.149					ND	
112 1,2,3-Trimethylbenzene	105		9.170					ND	
150 Benzyl chloride	126		9.274					ND	
115 n-Butylbenzene	91		9.398					ND	
116 1,2-Dichlorobenzene	146		9.460					ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134					ND	
118 1,3,5-Trichlorobenzene	180		10.258					ND	
119 1,2,4-Trichlorobenzene	180		10.776					ND	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	89	3996		0.4130	
121 Naphthalene	128		10.994					ND	
122 1,2,3-Trichlorobenzene	180		11.180					ND	
149 2-Methylnaphthalene	142		11.854					ND	U
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
137 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D

Injection Date: 02-Mar-2019 00:12:30

Instrument ID: HP5973C

Operator ID: NC

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

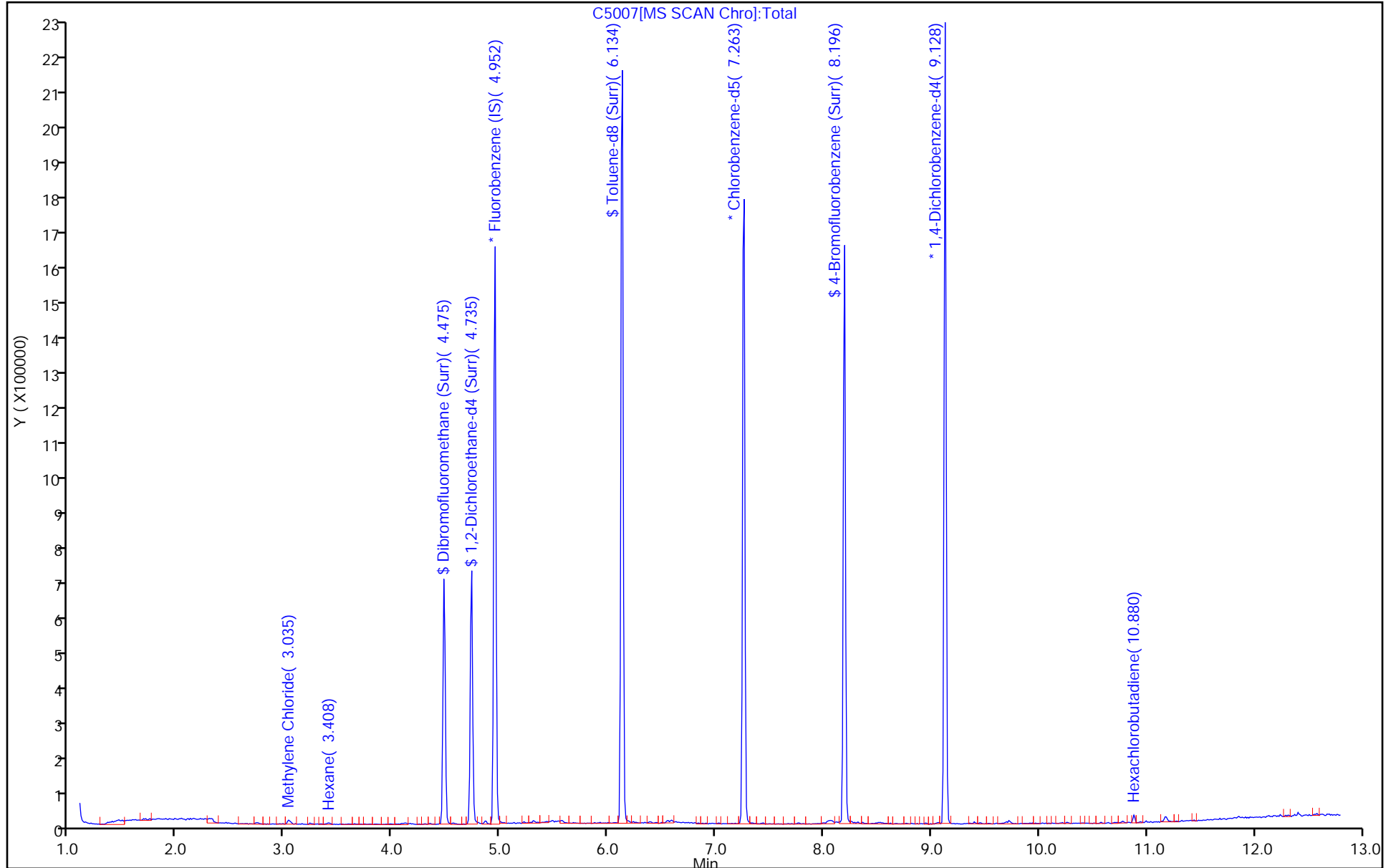
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D

Injection Date: 02-Mar-2019 00:12:30

Instrument ID: HP5973C

Lims ID: MB

Client ID:

Operator ID: NC

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

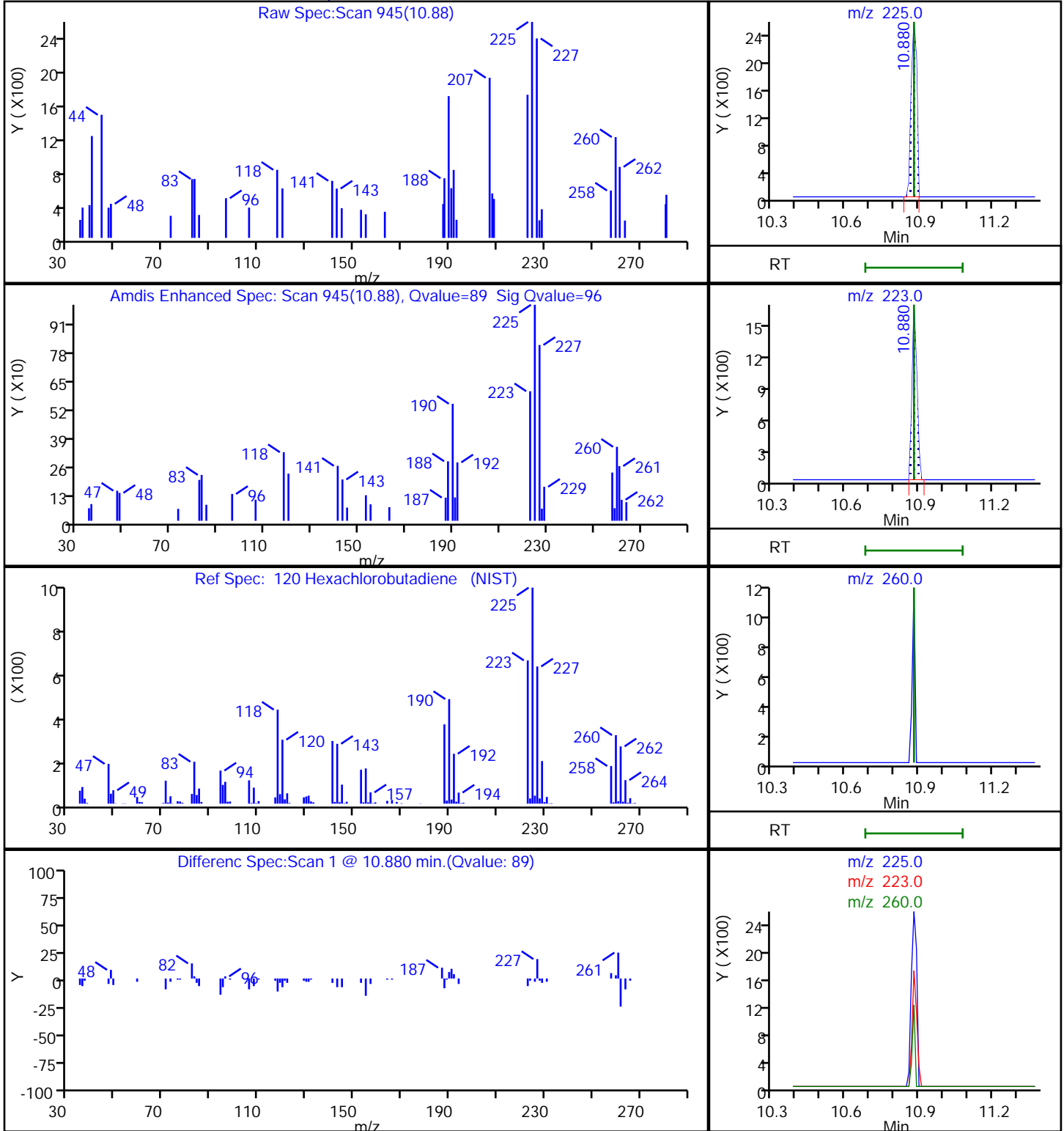
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

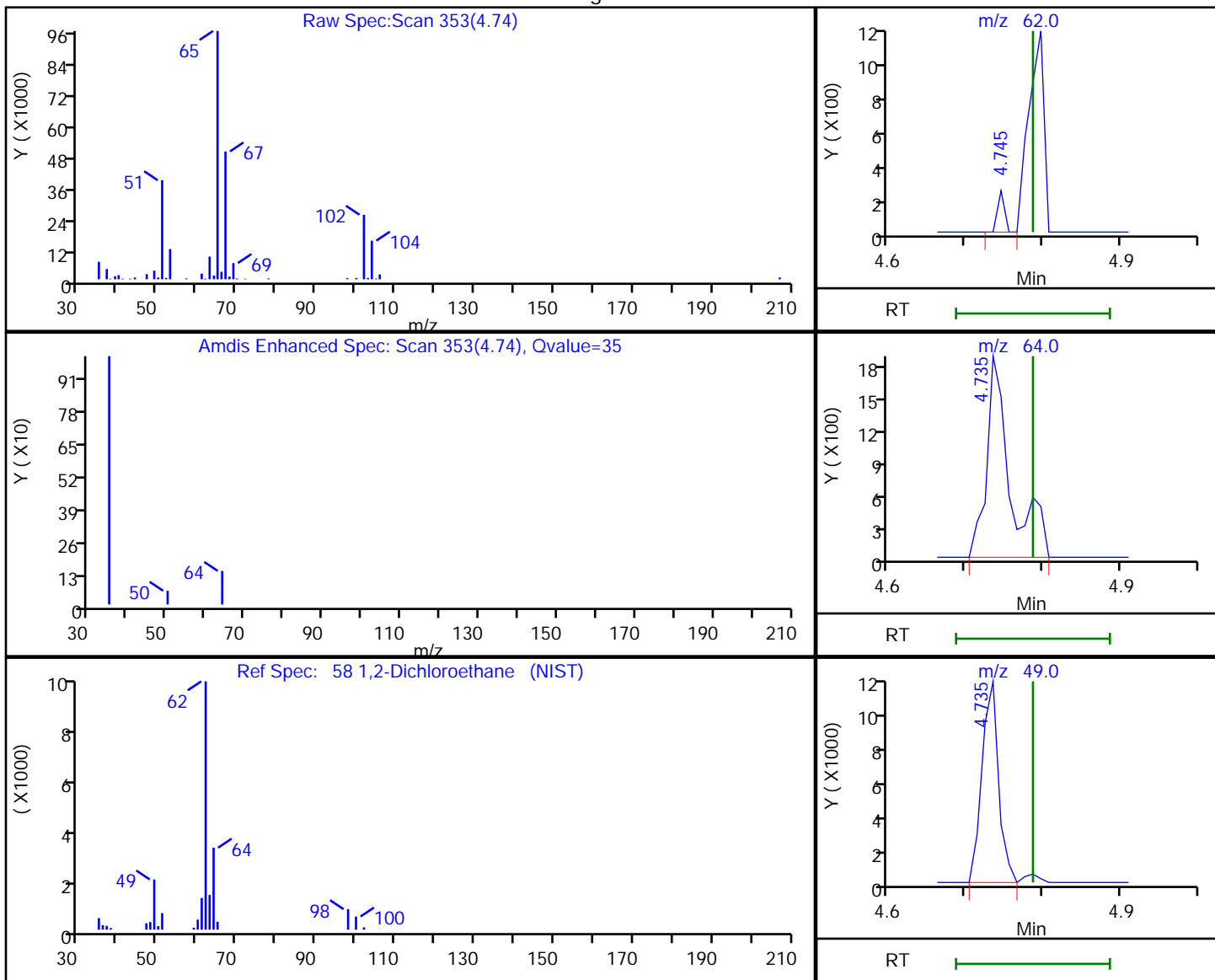


TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D
 Injection Date: 02-Mar-2019 00:12:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: NC ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.74	62.00	147	0.006845
4.73	64.00	3858	
4.73	49.00	17429	

Reviewer: carrolln, 02-Mar-2019 00:30:02

Audit Action: Marked Compound Undetected

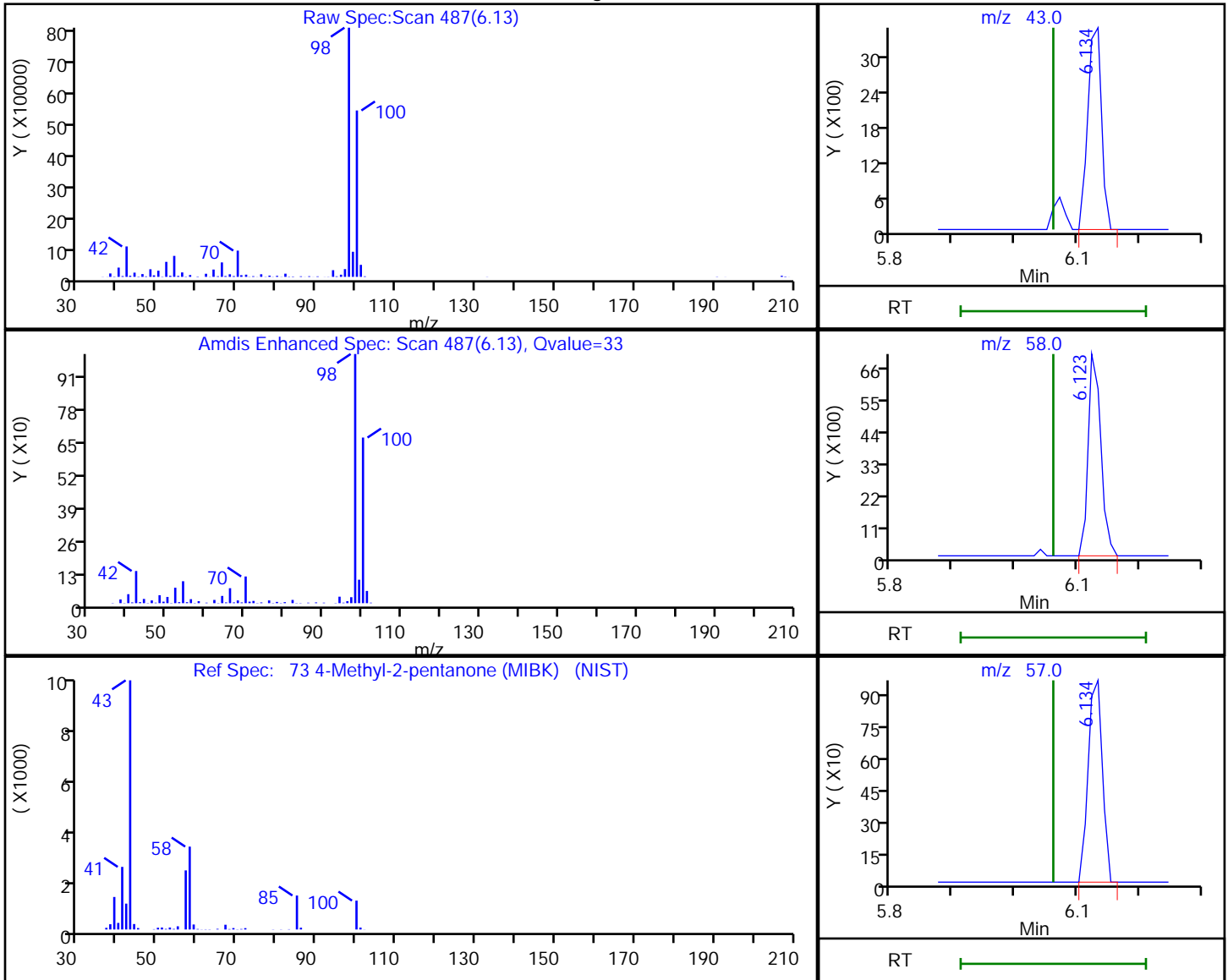
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D
 Injection Date: 02-Mar-2019 00:12:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: NC ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.13	43.00	5381	0.304103
6.12	58.00	10067	
6.13	57.00	1550	

Reviewer: carrolln, 02-Mar-2019 00:30:16

Audit Action: Marked Compound Undetected

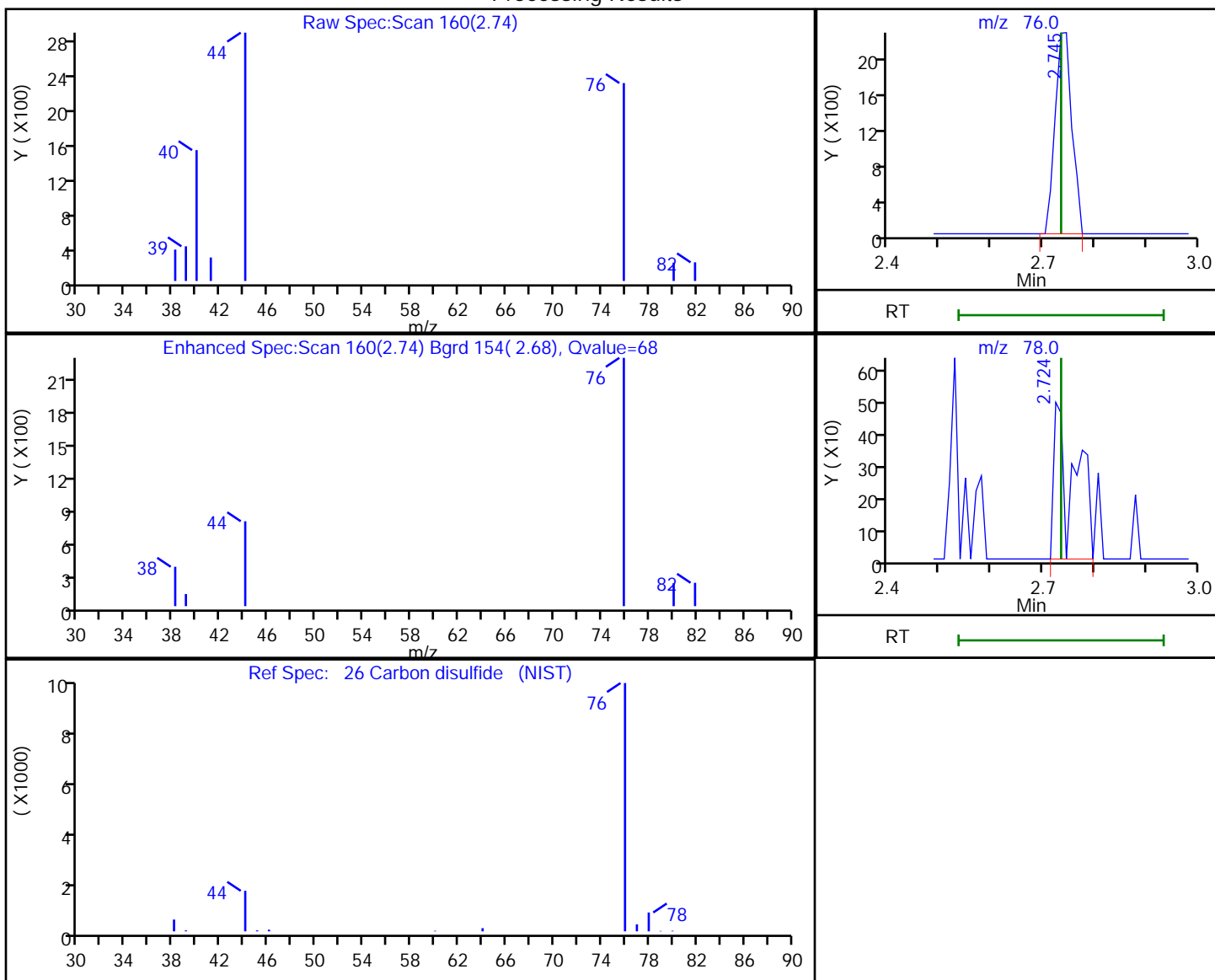
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D
Injection Date: 02-Mar-2019 00:12:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: NC ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.74	76.00	5227	0.140862
2.72	78.00	1356	

Reviewer: carrolln, 02-Mar-2019 00:29:46

Audit Action: Marked Compound Undetected

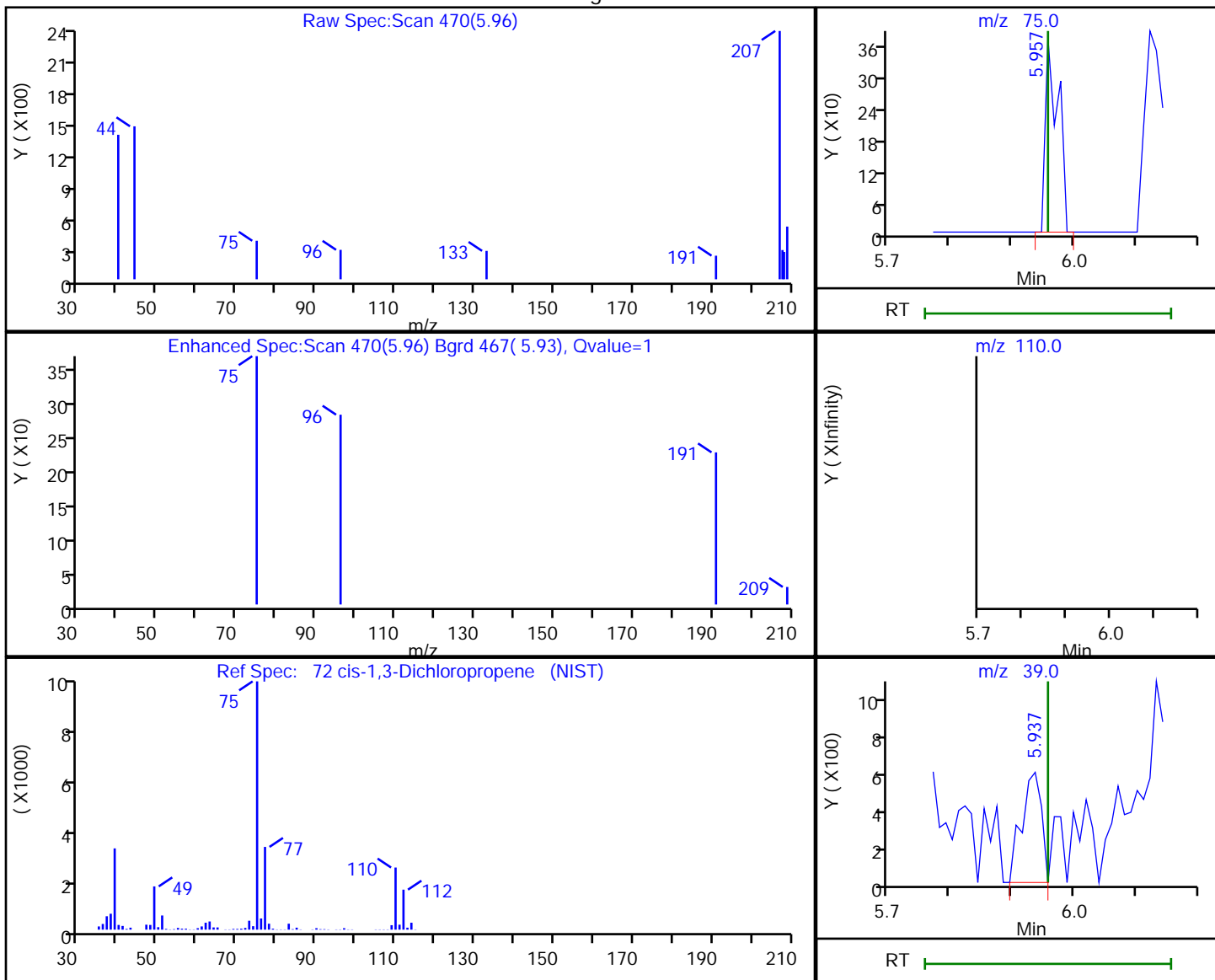
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5007.D
Injection Date: 02-Mar-2019 00:12:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: NC ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
5.96	75.00	534	0.031211
5.94	39.00	1241	
5.96	110.00	0	

Reviewer: carrolln, 02-Mar-2019 00:30:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461298/8
 Matrix: Water Lab File ID: C5033.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461298/8
 Matrix: Water Lab File ID: C5033.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461298/8
 Matrix: Water Lab File ID: C5033.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 1.055

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
544-10-5	1-Chlorohexane	7.25	0.649	J	33%
87-68-3	Hexachlorobutadiene	10.88	0.406	J	89%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 02-Mar-2019 15:51:30 ALS Bottle#: 9 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0079075-008
 Operator ID: OI Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 16:12:14 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo Date: 02-Mar-2019 16:12:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	204688	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.253	0.010	85	451459	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.129	-0.001	95	489117	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.475	-0.001	93	318716	25.0	27.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	98	192905	25.0	26.9	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.142	0.000	94	1143347	25.0	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.207	0.000	95	393991	25.0	27.7	
10 Dichlorodifluoromethane	85		1.190					ND	
11 Chlorodifluoromethane	51		1.201					ND	
12 Chloromethane	50		1.356					ND	
13 Vinyl chloride	62		1.450					ND	
151 Butadiene	54		1.460					ND	
14 Bromomethane	94		1.740					ND	
15 Chloroethane	64		1.823					ND	
16 Dichlorofluoromethane	67		2.051					ND	
17 Trichlorofluoromethane	101		2.051					ND	
18 Ethyl ether	59		2.330					ND	
148 Ethanol	45		2.361					ND	
20 Acrolein	56		2.517					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.538					ND	
22 1,1-Dichloroethene	96		2.548					ND	
23 Acetone	43		2.672					ND	
25 Iodomethane	142		2.703					ND	
26 Carbon disulfide	76	2.734	2.735	-0.001	90	4836		0.1390	
24 Isopropyl alcohol	45		2.849					ND	
28 3-Chloro-1-propene	41		2.890					ND	
27 Methyl acetate	43		2.942					ND	
29 Acetonitrile	40		2.963					ND	
30 Methylene Chloride	84		3.035					ND	Ua
31 2-Methyl-2-propanol	59		3.201					ND	
32 Methyl tert-butyl ether	73		3.222					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.232					ND	MUa
33 Acrylonitrile	53		3.294					ND	
35 Hexane	57		3.408					ND	
39 1,1-Dichloroethane	63		3.605					ND	
36 Isopropyl ether	45		3.615					ND	
135 Halothane	117		3.646					ND	
37 Vinyl acetate	43		3.657					ND	
40 2-Chloro-1,3-butadiene	53		3.657					ND	
38 1,1-Dimethoxyethane	75		3.688					ND	
19 Propene oxide	58		3.906					ND	
41 Tert-butyl ethyl ether	59		3.906					ND	
44 2,2-Dichloropropane	77		4.051					ND	U
45 cis-1,2-Dichloroethene	96		4.092					ND	
43 2-Butanone (MEK)	43		4.113					ND	
42 Ethyl acetate	43		4.134					ND	
46 Propionitrile	54		4.216					ND	
48 Chlorobromomethane	128		4.289					ND	
49 Tetrahydrofuran	42		4.299					ND	
47 Methacrylonitrile	41		4.299					ND	
50 Chloroform	83		4.351					ND	Ua
51 1,1,1-Trichloroethane	97		4.444					ND	
52 Cyclohexane	56		4.444					ND	
55 Carbon tetrachloride	117		4.548					ND	
54 1,1-Dichloropropene	75		4.569					ND	
152 Isooctane	57		4.724					ND	
57 Benzene	78		4.735					ND	
53 Isobutyl alcohol	43		4.745					ND	
56 Tert-amyl methyl ether	73		4.786					ND	
147 t-Amyl alcohol	59		4.786					ND	
58 1,2-Dichloroethane	62		4.786					ND	
59 n-Heptane	43	4.859	4.859	0.000	52	2655		0.1918	
1 1,4-Difluorobenzene	114		5.035					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.118					ND	
62 Trichloroethene	95		5.222					ND	
60 n-Butanol	56		5.242					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.304					ND	
142 Ethyl acrylate	55		5.305					ND	U
64 Methylcyclohexane	83		5.315					ND	
65 1,2-Dichloropropane	63		5.408					ND	
63 Methyl methacrylate	41		5.481					ND	
67 Dibromomethane	93		5.522					ND	
66 1,4-Dioxane	88		5.522					ND	
68 Dichlorobromomethane	83		5.636					ND	
70 2-Nitropropane	43		5.833					ND	
69 2-Chloroethyl vinyl ether	63		5.843					ND	
71 Epichlorohydrin	57		5.926					ND	
72 cis-1,3-Dichloropropene	75		5.957					ND	U
73 4-Methyl-2-pentanone (MIBK)	43		6.061					ND	
74 Toluene	92		6.175					ND	
76 2-Methylthiophene	97		6.289					ND	
77 trans-1,3-Dichloropropene	75		6.393					ND	
78 3-Methylthiophene	97		6.413					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		6.413					ND	
79 1,1,2-Trichloroethane	83		6.538					ND	
81 Tetrachloroethene	166		6.590					ND	
82 1,3-Dichloropropane	76		6.662					ND	
80 2-Hexanone	43		6.704					ND	
155 n-Butyl acetate	43		6.776					ND	
83 Chlorodibromomethane	129		6.849					ND	
84 Ethylene Dibromide	107		6.932					ND	
146 1-Chlorohexane	55	7.253	7.232	0.031	33	8085		0.6490	
85 3-Chlorobenzotrifluoride	180		7.242					ND	
86 4-Chlorobenzotrifluoride	180		7.284					ND	
87 Chlorobenzene	112		7.284					ND	
88 Ethylbenzene	91		7.336					ND	Ua
89 1,1,1,2-Tetrachloroethane	131		7.346					ND	
90 m-Xylene & p-Xylene	106		7.429					ND	
91 o-Xylene	106		7.750					ND	
92 Styrene	104		7.771					ND	
95 Bromoform	173		7.968					ND	
93 2-Chlorobenzotrifluoride	180		7.978					ND	
94 Isopropylbenzene	105		8.030					ND	
96 Cyclohexanone	55		8.186					ND	
101 Bromobenzene	156		8.320					ND	
97 1,1,2,2-Tetrachloroethane	83		8.341					ND	
99 N-Propylbenzene	91		8.362					ND	
98 trans-1,4-Dichloro-2-buten	53		8.382					ND	
100 1,2,3-Trichloropropane	110		8.382					ND	
104 3-Chlorotoluene	126		8.455					ND	
103 2-Chlorotoluene	126		8.455					ND	
102 1,3,5-Trimethylbenzene	105		8.507					ND	
105 4-Chlorotoluene	126		8.548					ND	
106 tert-Butylbenzene	134		8.766					ND	
107 1,2,4-Trimethylbenzene	105		8.807					ND	Ua
108 Pentachloroethane	167		8.828					ND	
109 sec-Butylbenzene	105		8.942					ND	
110 4-Isopropyltoluene	119		9.056					ND	
111 1,3-Dichlorobenzene	146		9.077					ND	Ua
114 Dicyclopentadiene	66		9.129					ND	
113 1,4-Dichlorobenzene	146		9.149					ND	Ua
112 1,2,3-Trimethylbenzene	105		9.170					ND	
150 Benzyl chloride	126		9.274					ND	
115 n-Butylbenzene	91		9.398					ND	MUa
116 1,2-Dichlorobenzene	146		9.460					ND	
117 1,2-Dibromo-3-Chloropropan	75		10.134					ND	
118 1,3,5-Trichlorobenzene	180		10.258					ND	
119 1,2,4-Trichlorobenzene	180		10.776					ND	Ua
120 Hexachlorobutadiene	225	10.880	10.880	0.000	89	3777		0.4059	a
121 Naphthalene	128		10.994					ND	
122 1,2,3-Trichlorobenzene	180		11.180					ND	Ua
149 2-Methylnaphthalene	142		11.854					ND	
143 Propene oxide TIC	1		0.000					ND	
137 Nitrobenzene	77		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

C_8260_Surr_00144

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_IS_00129

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D

Injection Date: 02-Mar-2019 15:51:30

Instrument ID: HP5973C

Operator ID: OI

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

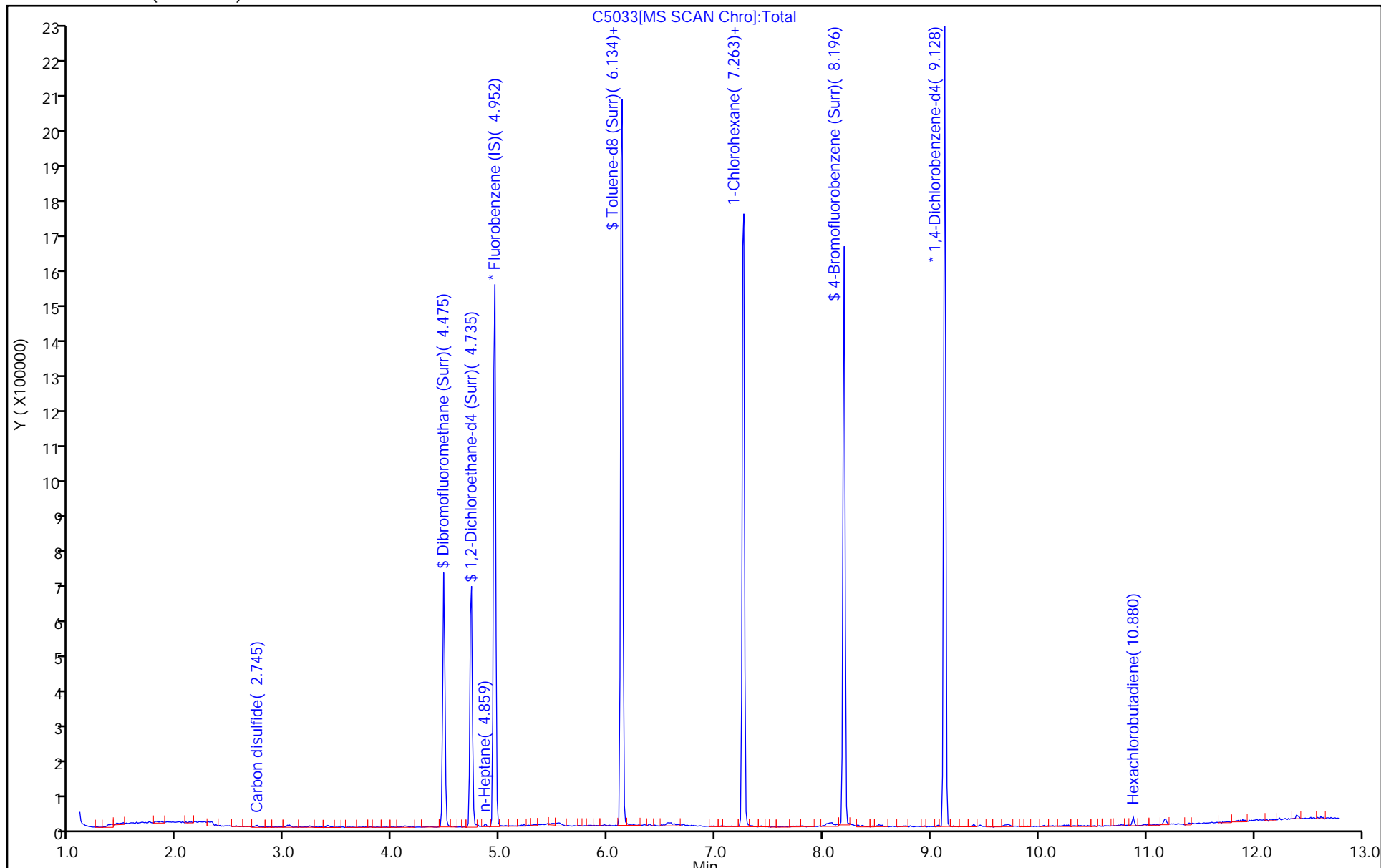
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D

Injection Date: 02-Mar-2019 15:51:30

Instrument ID: HP5973C

Lims ID: MB

Client ID:

Operator ID: OI

ALS Bottle#: 9

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

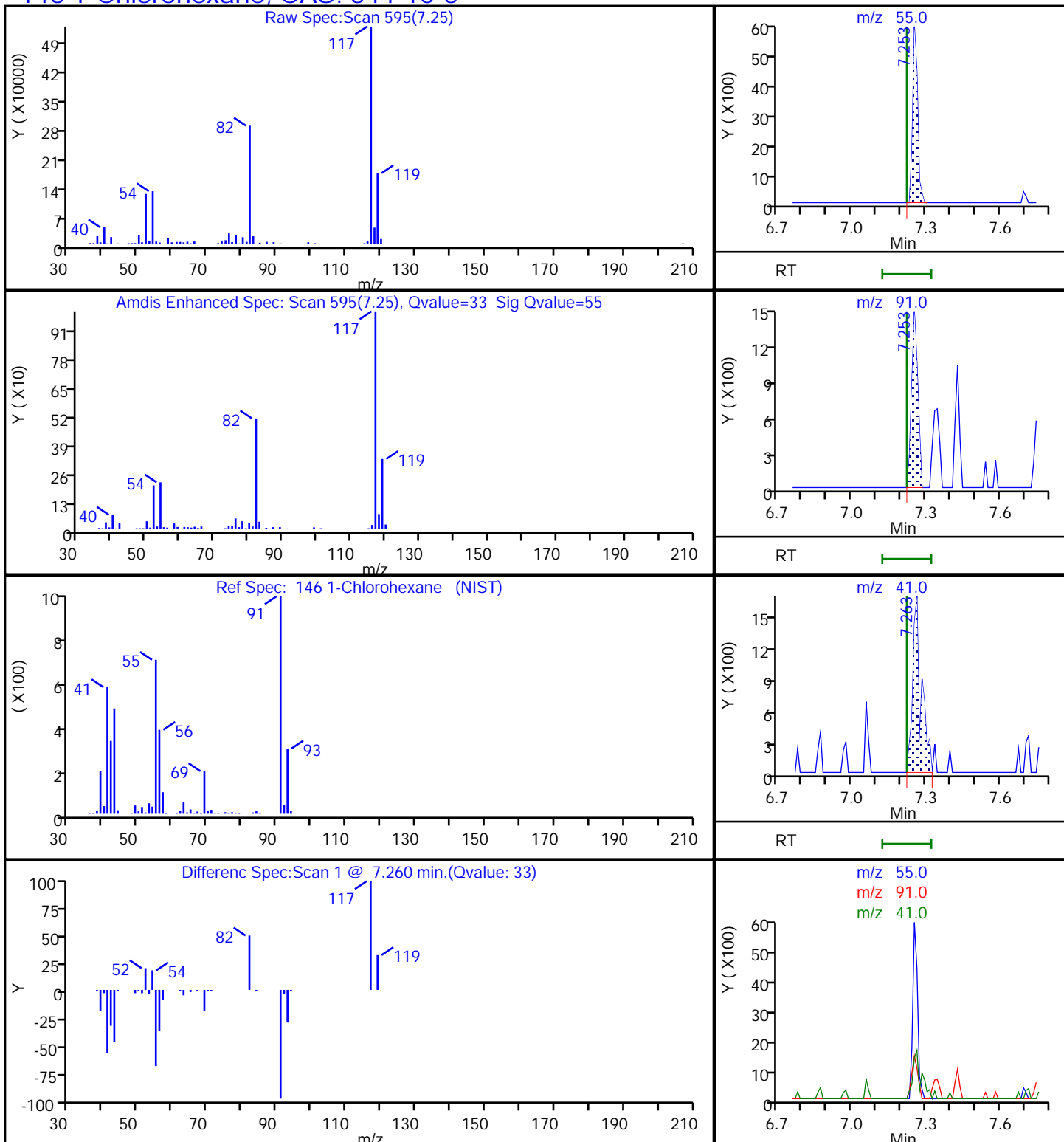
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

146 1-Chlorohexane, CAS: 544-10-5



TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D

Injection Date: 02-Mar-2019 15:51:30

Instrument ID: HP5973C

Lims ID: MB

Client ID:

Operator ID: OI

ALS Bottle#: 9

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

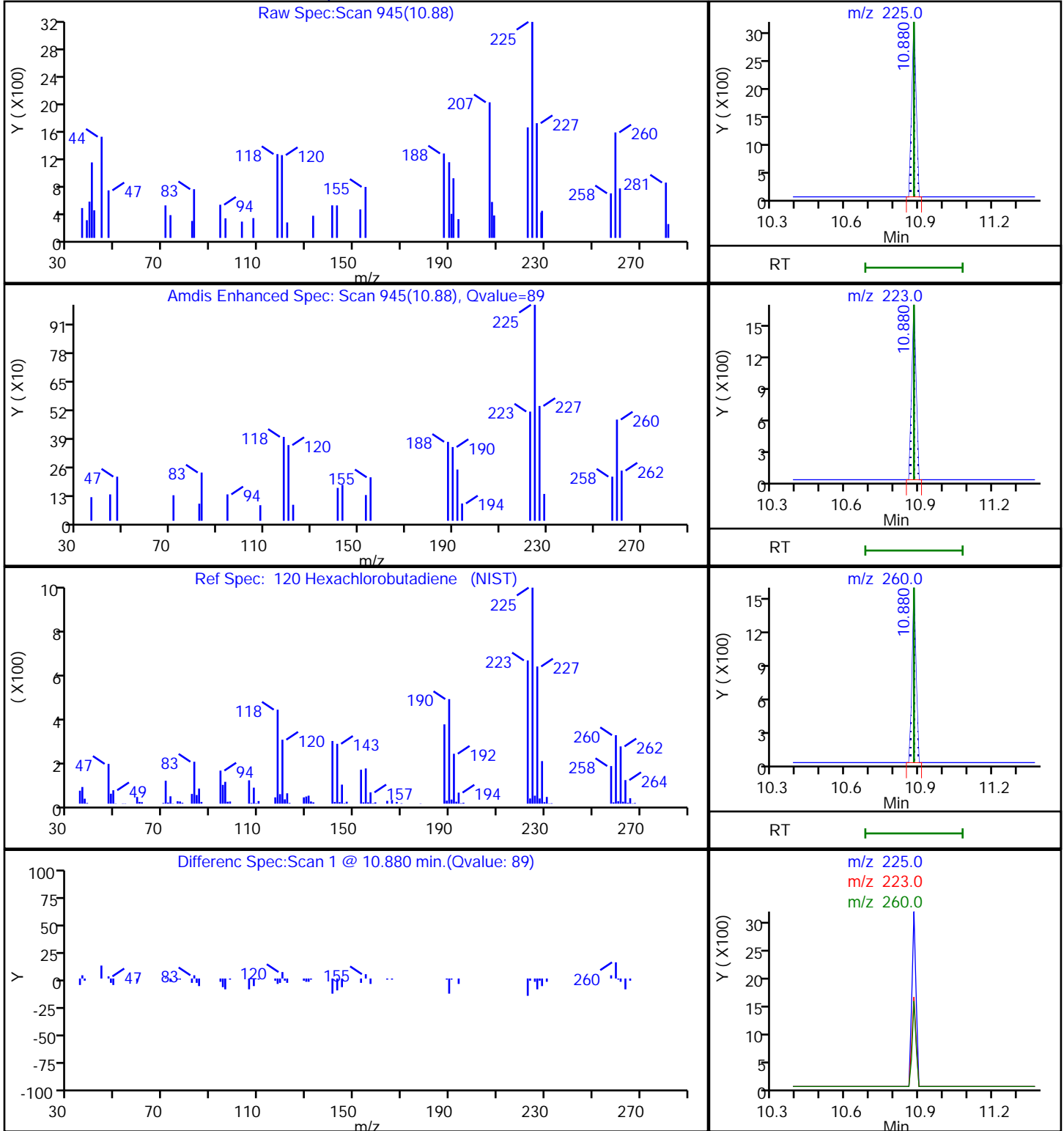
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

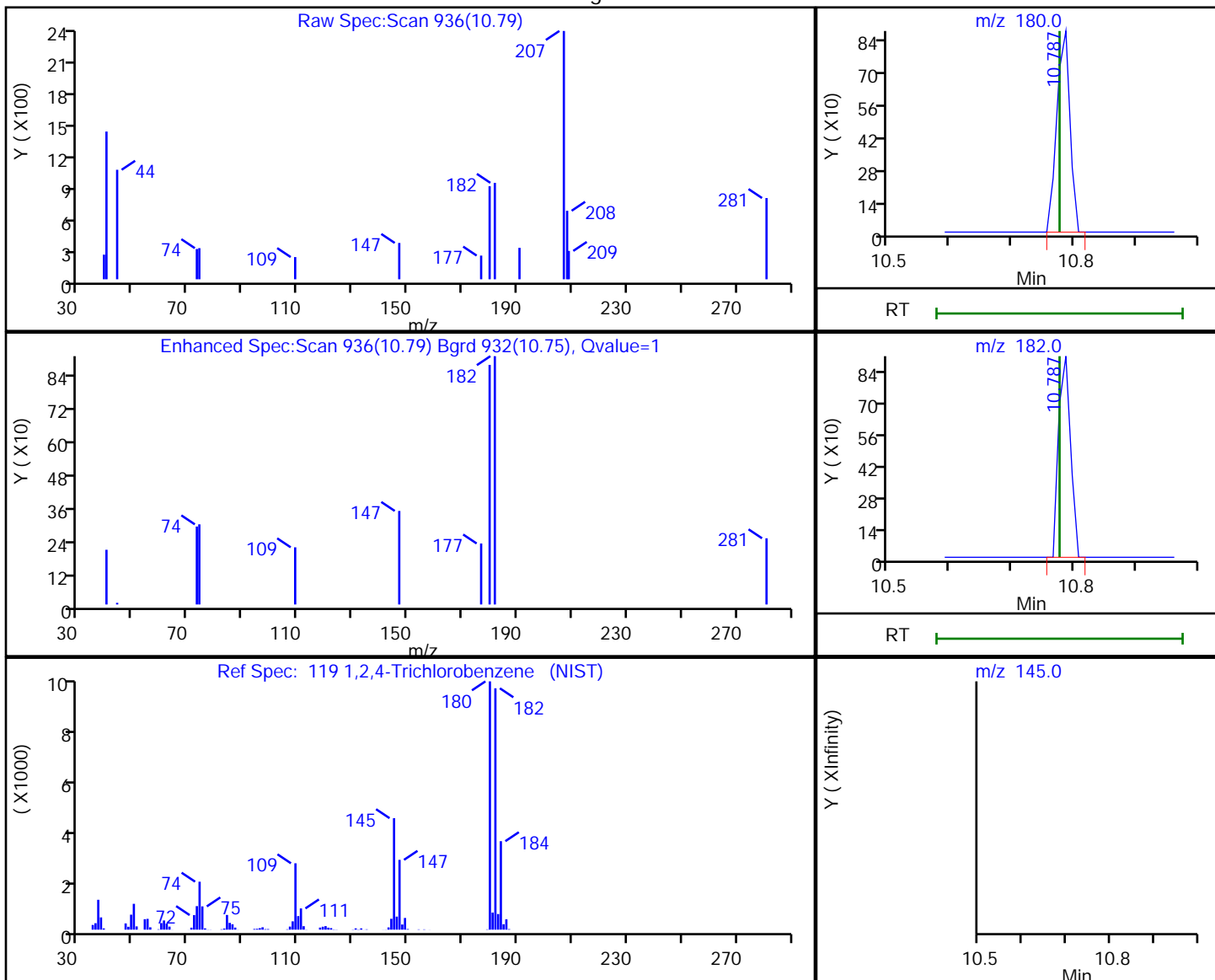


TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
 Injection Date: 02-Mar-2019 15:51:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: OI ALS Bottle#: 9 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
10.79	180.00	1306	0.052018
10.79	182.00	1224	
10.78	145.00	0	

Reviewer: izquierdoo, 02-Mar-2019 16:11:50
 Audit Action: Marked Compound Undetected

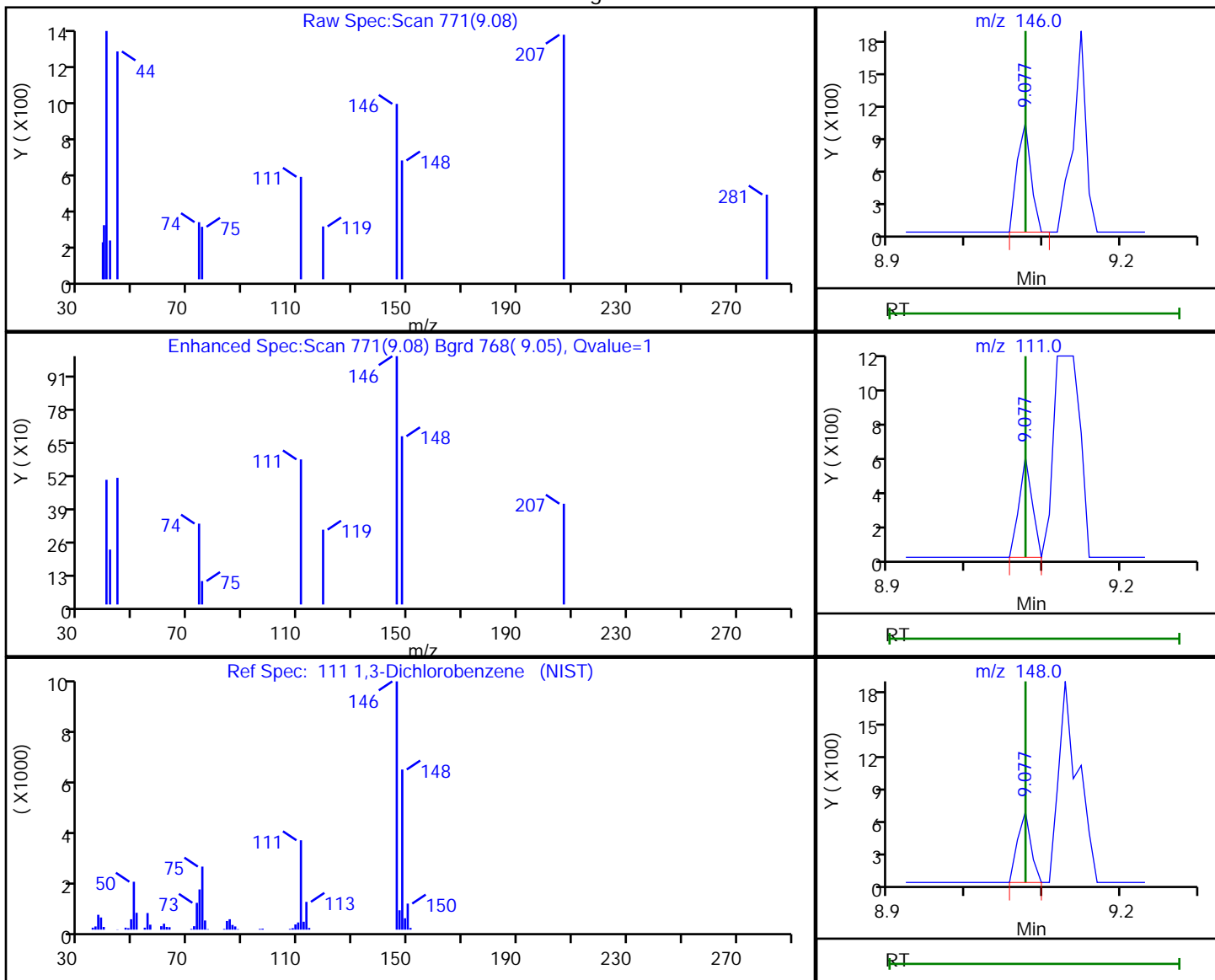
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
 Injection Date: 02-Mar-2019 15:51:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: OI ALS Bottle#: 9 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

111 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.08	146.00	1225	0.035245
9.08	111.00	678	
9.08	148.00	799	

Reviewer: izquierdoo, 02-Mar-2019 16:11:27
 Audit Action: Marked Compound Undetected

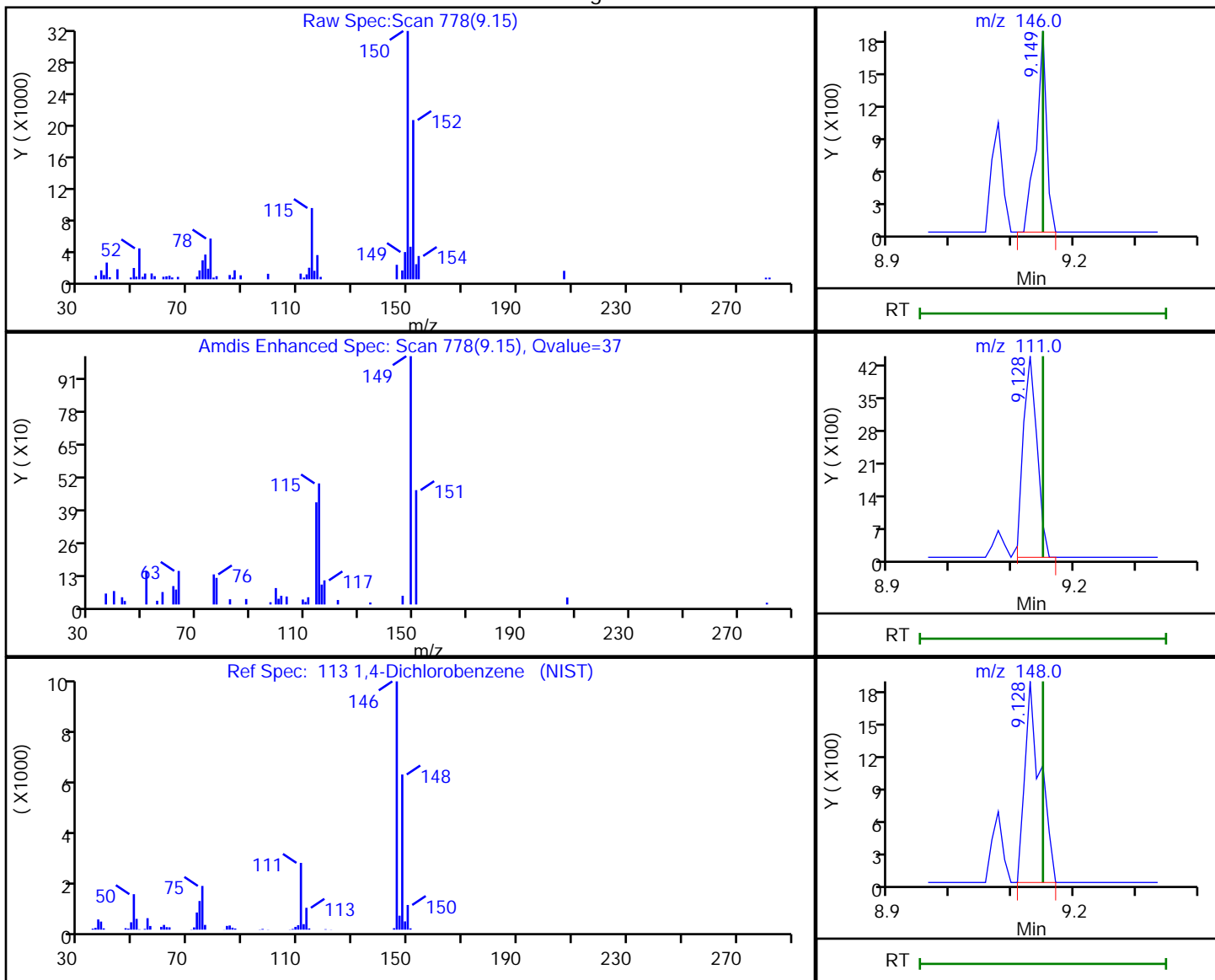
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
 Injection Date: 02-Mar-2019 15:51:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: OI ALS Bottle#: 9 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.15	146.00	2096	0.059547
9.13	111.00	6736	
9.13	148.00	3317	

Reviewer: izquierdoo, 02-Mar-2019 16:11:30
 Audit Action: Marked Compound Undetected

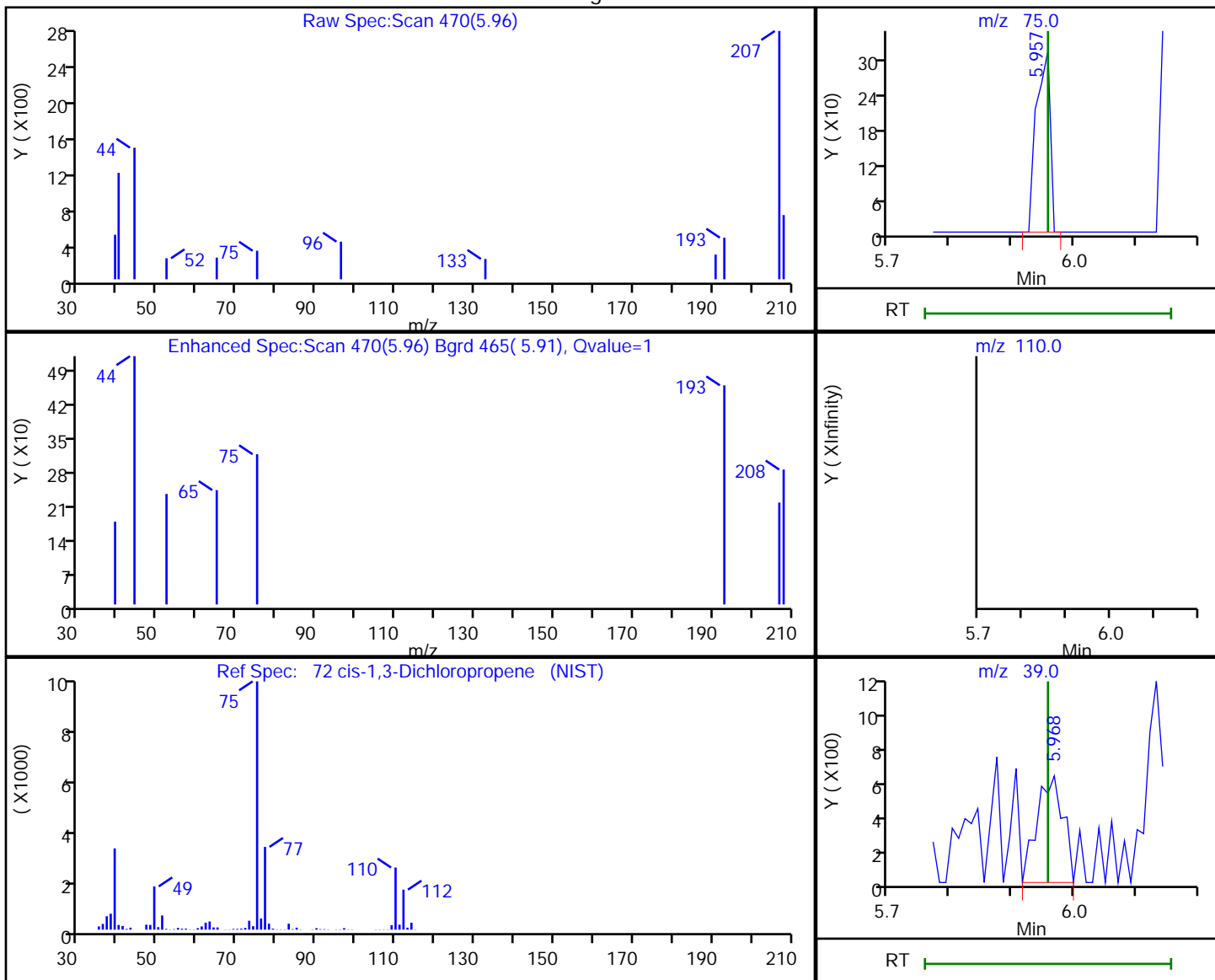
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
Injection Date: 02-Mar-2019 15:51:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: OI ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
5.96	75.00	488	0.257742
5.97	39.00	1733	
5.96	110.00	0	

Reviewer: izquierdoo, 02-Mar-2019 16:10:52
Audit Action: Marked Compound Undetected

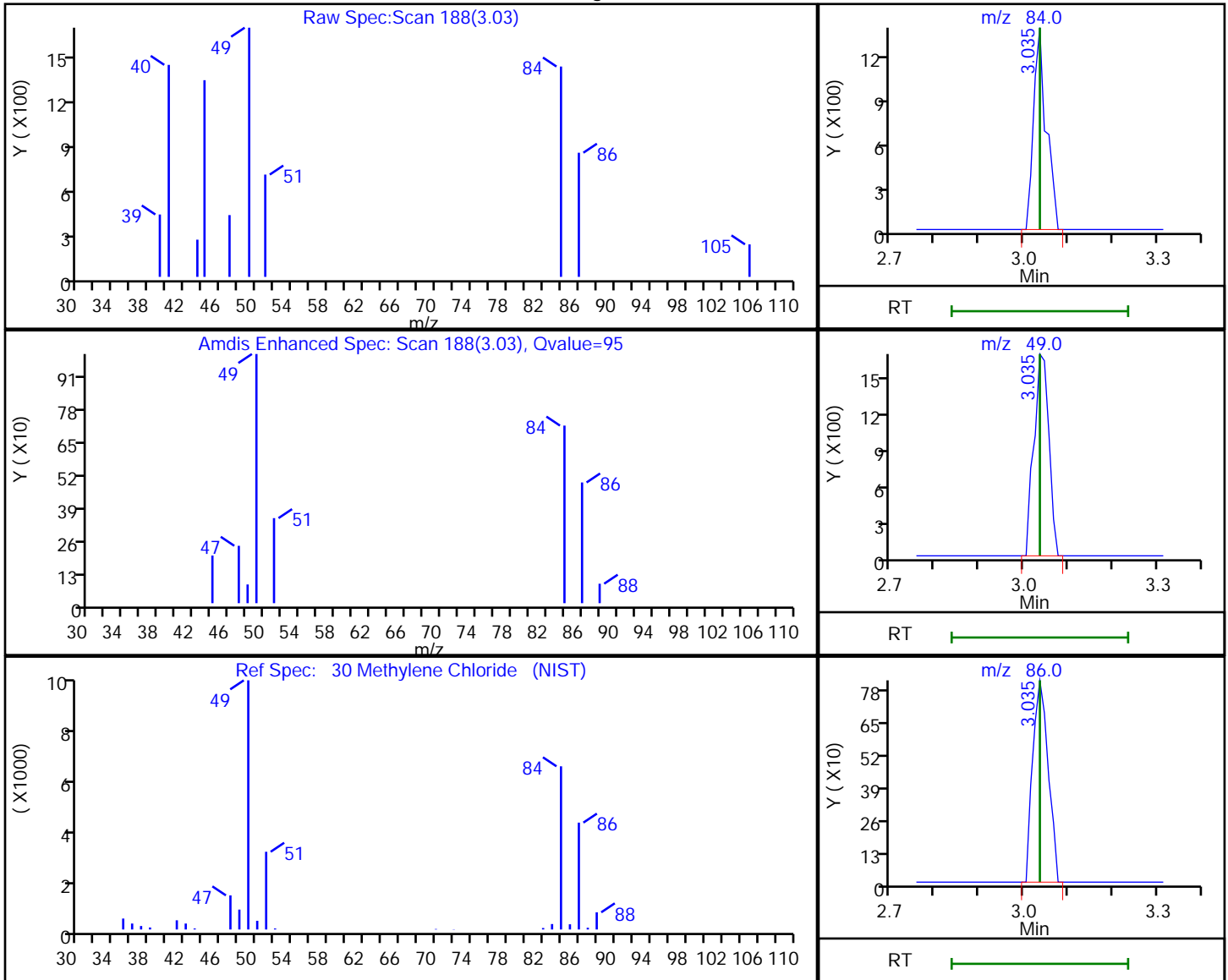
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
 Injection Date: 02-Mar-2019 15:51:30 Instrument ID: HP5973C
 Lims ID: MB
 Client ID:
 Operator ID: OI ALS Bottle#: 9 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: C-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.03	84.00	2768	-0.090138
3.03	49.00	3859	
3.03	86.00	1990	

Reviewer: izquierdoo, 02-Mar-2019 16:10:03
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

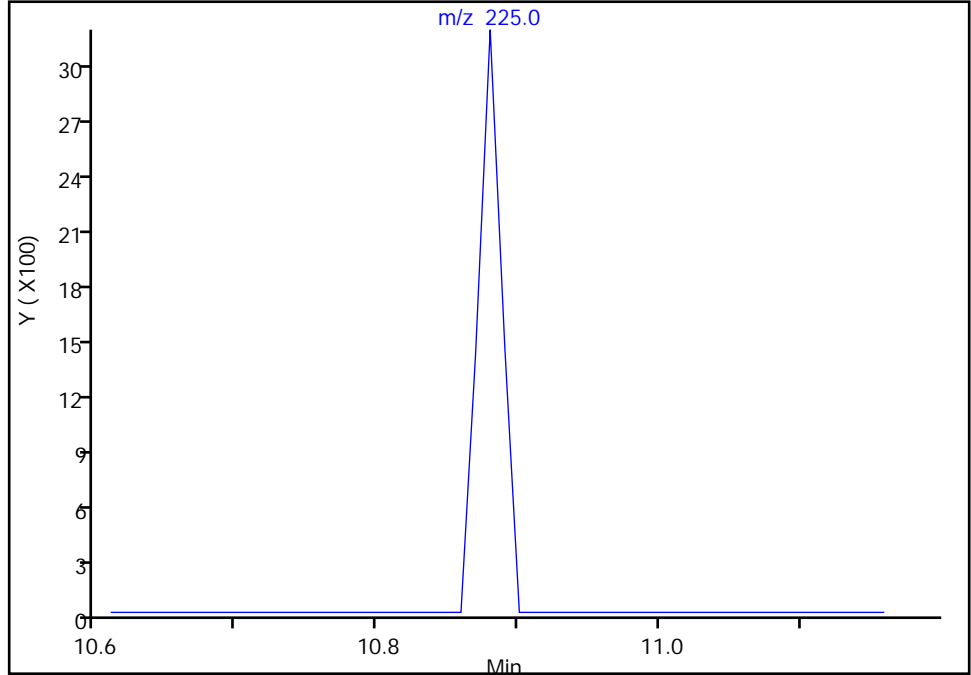
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5033.D
Injection Date: 02-Mar-2019 15:51:30 Instrument ID: HP5973C
Lims ID: MB
Client ID:
Operator ID: OI ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

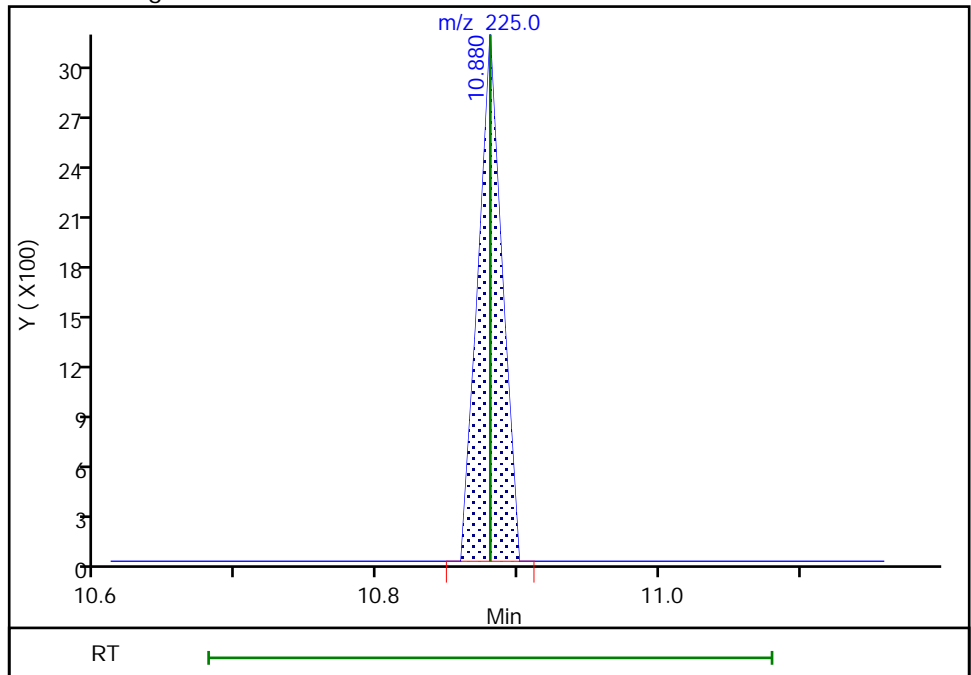
Not Detected
Expected RT: 10.88

Processing Integration Results



Manual Integration Results

RT: 10.88
Area: 3777
Amount: 0.405944
Amount Units: ug/L



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-461126/5
 Matrix: Water Lab File ID: C4978.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 10:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	22.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	23.8		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.1		1.0	0.31
75-34-3	1,1-Dichloroethane	23.3		1.0	0.38
75-35-4	1,1-Dichloroethene	26.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.1		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	21.6		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.3		1.0	0.79
107-06-2	1,2-Dichloroethane	22.0		1.0	0.21
78-87-5	1,2-Dichloropropane	24.4		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.7		1.0	0.84
78-93-3	2-Butanone (MEK)	130		10	1.3
591-78-6	2-Hexanone	133		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	112		5.0	2.1
67-64-1	Acetone	135		10	3.0
71-43-2	Benzene	24.9		1.0	0.41
75-27-4	Bromodichloromethane	26.7		1.0	0.39
75-25-2	Bromoform	29.8		1.0	0.26
74-83-9	Bromomethane	27.1		1.0	0.69
75-15-0	Carbon disulfide	21.4		1.0	0.19
56-23-5	Carbon tetrachloride	28.7		1.0	0.27
108-90-7	Chlorobenzene	24.1		1.0	0.75
124-48-1	Dibromochloromethane	29.1		1.0	0.32
75-00-3	Chloroethane	26.8		1.0	0.32
67-66-3	Chloroform	23.2		1.0	0.34
74-87-3	Chloromethane	27.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.9		1.0	0.36
110-82-7	Cyclohexane	27.4		1.0	0.18
75-71-8	Dichlorodifluoromethane	31.6		1.0	0.68
100-41-4	Ethylbenzene	23.9		1.0	0.74
106-93-4	1,2-Dibromoethane	25.5		1.0	0.73
98-82-8	Isopropylbenzene	23.8		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-461126/5
 Matrix: Water Lab File ID: C4978.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 10:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	36.0		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.0		1.0	0.16
108-87-2	Methylcyclohexane	27.9		1.0	0.16
75-09-2	Methylene Chloride	22.6		1.0	0.44
100-42-5	Styrene	24.8		1.0	0.73
127-18-4	Tetrachloroethene	27.6		1.0	0.36
108-88-3	Toluene	24.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.8		1.0	0.37
79-01-6	Trichloroethene	24.6		1.0	0.46
75-69-4	Trichlorofluoromethane	27.9		1.0	0.88
75-01-4	Vinyl chloride	28.7		1.0	0.90
1330-20-7	Xylenes, Total	47.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4978.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Mar-2019 10:27:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0079046-005
 Operator ID: kn Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 17:12:41 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: nowakk

Date: 01-Mar-2019 12:20:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	217779	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.253	0.010	84	469084	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.128	0.001	95	495169	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.475	0.001	93	316716	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.734	0.001	70	186168	25.0	24.4	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	93	1192864	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	397955	25.0	26.9	
10 Dichlorodifluoromethane	85	1.191	1.180	0.011	99	462815	25.0	31.6	
12 Chloromethane	50	1.356	1.356	0.000	99	510888	25.0	27.5	
13 Vinyl chloride	62	1.450	1.450	0.000	98	434110	25.0	28.7	
151 Butadiene	54	1.460	1.450	0.010	95	482623	25.0	32.3	
14 Bromomethane	94	1.740	1.729	0.011	91	283243	25.0	27.1	
15 Chloroethane	64	1.833	1.833	0.000	99	255324	25.0	26.8	
16 Dichlorofluoromethane	67	2.051	2.040	0.011	98	595641	25.0	24.7	
17 Trichlorofluoromethane	101	2.051	2.040	0.011	97	561192	25.0	27.9	
18 Ethyl ether	59	2.331	2.330	0.000	97	289246	25.0	23.4	
20 Acrolein	56	2.517	2.517	0.000	99	187498	125.0	67.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	90	290065	25.0	28.1	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	97	290636	25.0	26.0	
23 Acetone	43	2.672	2.672	0.000	98	768712	125.0	134.7	
25 Iodomethane	142	2.714	2.704	0.010	99	546828	25.0	24.6	
26 Carbon disulfide	76	2.735	2.735	0.000	100	790664	25.0	21.4	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	90	537763	25.0	22.5	
27 Methyl acetate	43	2.942	2.942	0.000	99	541998	50.0	36.0	
30 Methylene Chloride	84	3.035	3.025	0.010	97	325446	25.0	22.6	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	97	447853	250.0	216.2	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	899462	25.0	23.0	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	331939	25.0	24.3	
33 Acrylonitrile	53	3.294	3.294	0.000	100	1489034	250.0	229.7	
35 Hexane	57	3.408	3.408	0.000	95	444039	25.0	28.5	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	573489	25.0	23.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.657	3.657	0.000	97	1530788	50.0	56.6	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	93	274571	25.0	21.2	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	79	379763	25.0	23.3	
43 2-Butanone (MEK)	43	4.123	4.113	0.010	99	1002507	125.0	130.0	
48 Chlorobromomethane	128	4.289	4.289	0.000	95	199574	25.0	24.0	
49 Tetrahydrofuran	42	4.299	4.299	0.000	89	227457	50.0	39.5	
50 Chloroform	83	4.351	4.351	0.000	95	574109	25.0	23.2	
51 1,1,1-Trichloroethane	97	4.445	4.434	0.011	98	484107	25.0	25.1	
52 Cyclohexane	56	4.445	4.444	0.001	94	562185	25.0	27.4	
55 Carbon tetrachloride	117	4.548	4.548	0.000	96	435965	25.0	28.7	
54 1,1-Dichloropropene	75	4.559	4.558	0.001	92	422614	25.0	25.8	
57 Benzene	78	4.735	4.735	0.000	97	1270865	25.0	24.9	
53 Isobutyl alcohol	43	4.745	4.745	0.000	94	465708	625.0	580.2	
58 1,2-Dichloroethane	62	4.787	4.786	0.001	97	471560	25.0	22.0	
59 n-Heptane	43	4.859	4.859	0.000	96	488810	25.0	33.2	
62 Trichloroethene	95	5.222	5.222	0.000	95	333195	25.0	24.6	
64 Methylcyclohexane	83	5.315	5.305	0.010	94	505030	25.0	27.9	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	92	318962	25.0	24.4	
66 1,4-Dioxane	88	5.522	5.522	0.000	36	82244	500.0	454.8	
67 Dibromomethane	93	5.522	5.522	0.000	90	209793	25.0	23.8	
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	400572	25.0	26.7	
69 2-Chloroethyl vinyl ether	63	5.844	5.844	0.000	94	206451	25.0	26.6	
72 cis-1,3-Dichloropropene	75	5.958	5.957	0.001	93	476100	25.0	27.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	98	1983582	125.0	112.4	
74 Toluene	92	6.175	6.175	0.000	98	808431	25.0	24.2	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	96	436599	25.0	26.8	
75 Ethyl methacrylate	69	6.414	6.413	0.001	92	379950	25.0	24.3	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	91	236838	25.0	23.8	
81 Tetrachloroethene	166	6.590	6.590	0.000	98	397115	25.0	27.6	
82 1,3-Dichloropropane	76	6.662	6.662	0.000	94	485484	25.0	25.2	
80 2-Hexanone	43	6.704	6.704	0.000	99	1472684	125.0	132.9	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	316610	25.0	29.1	
84 Ethylene Dibromide	107	6.932	6.932	0.000	100	305438	25.0	25.5	
87 Chlorobenzene	112	7.284	7.284	0.000	96	934508	25.0	24.1	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1517106	25.0	23.9	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.346	0.000	93	348492	25.0	27.2	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	619351	25.0	24.3	
91 o-Xylene	106	7.750	7.750	0.000	97	615010	25.0	22.8	
92 Styrene	104	7.771	7.771	0.000	95	983955	25.0	24.8	
95 Bromoform	173	7.968	7.968	0.000	97	188336	25.0	29.8	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1609218	25.0	23.8	
101 Bromobenzene	156	8.320	8.320	0.000	90	425497	25.0	24.8	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	96	386901	25.0	22.9	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	1760647	25.0	23.7	
98 trans-1,4-Dichloro-2-buten	53	8.383	8.382	0.001	74	114765	25.0	22.7	
100 1,2,3-Trichloropropane	110	8.383	8.382	0.001	89	133336	25.0	23.1	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	394517	25.0	22.6	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	95	1356686	25.0	24.0	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	399473	25.0	23.2	
106 tert-Butylbenzene	134	8.766	8.766	0.000	92	318704	25.0	25.4	
107 1,2,4-Trimethylbenzene	105	8.807	8.807	0.000	97	1429427	25.0	24.0	
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	1643876	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	1467287	25.0	25.0	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	99	837856	25.0	23.8	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	97	843051	25.0	23.7	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	1200410	25.0	23.9	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	99	815553	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	86	66895	25.0	21.6	
119 1,2,4-Trichlorobenzene	180	10.776	10.787	-0.011	94	587962	25.0	23.1	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	95	251268	25.0	26.7	
121 Naphthalene	128	10.994	10.994	0.000	97	1508476	25.0	21.2	
122 1,2,3-Trichlorobenzene	180	11.181	11.180	0.001	97	557780	25.0	23.0	

Reagents:

8260 CORP mix_00147	Amount Added: 12.50	Units: uL	
GAS CORP mix_00328	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79046.b\C4978.D

Injection Date: 01-Mar-2019 10:27:30

Instrument ID: HP5973C

Operator ID: kn

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

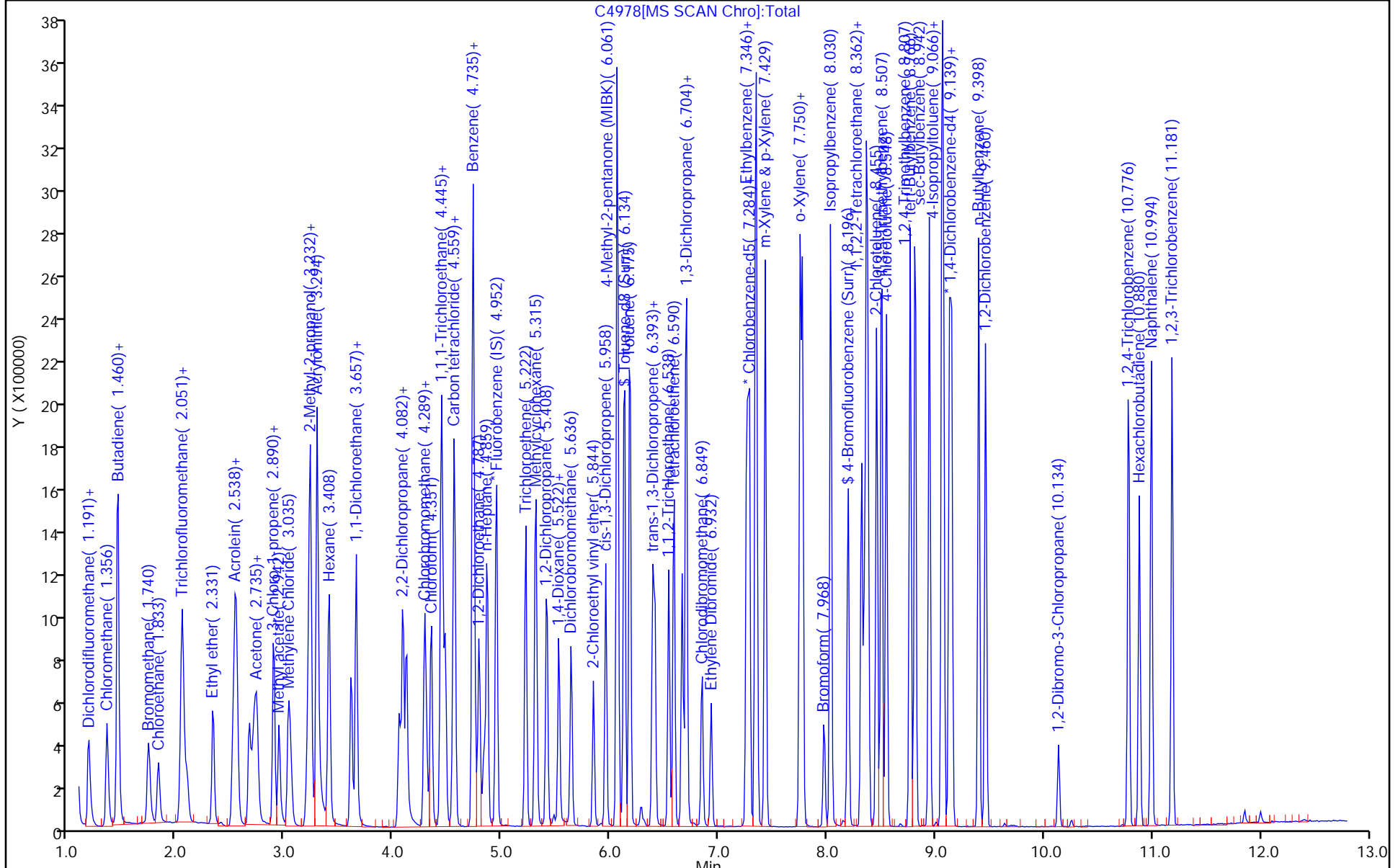
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-461282/5
 Matrix: Water Lab File ID: C5003.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 22:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.8		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.6		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.6		1.0	0.31
75-34-3	1,1-Dichloroethane	25.1		1.0	0.38
75-35-4	1,1-Dichloroethene	28.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.1		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.8		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.3		1.0	0.79
107-06-2	1,2-Dichloroethane	23.4		1.0	0.21
78-87-5	1,2-Dichloropropane	26.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.2		1.0	0.84
78-93-3	2-Butanone (MEK)	244		10	1.3
591-78-6	2-Hexanone	136		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	121		5.0	2.1
67-64-1	Acetone	113		10	3.0
71-43-2	Benzene	26.5		1.0	0.41
75-27-4	Bromodichloromethane	29.3		1.0	0.39
75-25-2	Bromoform	32.2		1.0	0.26
74-83-9	Bromomethane	25.5		1.0	0.69
75-15-0	Carbon disulfide	23.8		1.0	0.19
56-23-5	Carbon tetrachloride	30.9		1.0	0.27
108-90-7	Chlorobenzene	25.6		1.0	0.75
124-48-1	Dibromochloromethane	31.5		1.0	0.32
75-00-3	Chloroethane	26.0		1.0	0.32
67-66-3	Chloroform	24.5		1.0	0.34
74-87-3	Chloromethane	23.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	30.7		1.0	0.36
110-82-7	Cyclohexane	29.6		1.0	0.18
75-71-8	Dichlorodifluoromethane	24.2		1.0	0.68
100-41-4	Ethylbenzene	25.1		1.0	0.74
106-93-4	1,2-Dibromoethane	28.2		1.0	0.73
98-82-8	Isopropylbenzene	24.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-461282/5
 Matrix: Water Lab File ID: C5003.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 22:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	44.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.4		1.0	0.16
108-87-2	Methylcyclohexane	29.9		1.0	0.16
75-09-2	Methylene Chloride	25.6		1.0	0.44
100-42-5	Styrene	26.1		1.0	0.73
127-18-4	Tetrachloroethene	30.5		1.0	0.36
108-88-3	Toluene	25.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.2		1.0	0.37
79-01-6	Trichloroethene	26.9		1.0	0.46
75-69-4	Trichlorofluoromethane	25.9		1.0	0.88
75-01-4	Vinyl chloride	25.5		1.0	0.90
1330-20-7	Xylenes, Total	49.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5003.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Mar-2019 22:24:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0079070-005
 Operator ID: NC Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2019 23:16:20 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0326

First Level Reviewer: carrolln Date: 01-Mar-2019 23:16:40

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	213813	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.263	-0.010	87	464764	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.128	0.000	95	487313	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.476	0.000	93	325397	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.001	57	199140	25.0	26.6	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.134	0.000	93	1213613	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.196	0.000	95	391584	25.0	26.7	
10 Dichlorodifluoromethane	85	1.180	1.180	0.000	99	347831	25.0	24.2	
11 Chlorodifluoromethane	51	1.201	1.201	0.000	98	435591	25.0	25.1	
12 Chloromethane	50	1.356	1.356	0.000	99	430344	25.0	23.6	
13 Vinyl chloride	62	1.449	1.450	-0.001	99	378109	25.0	25.5	
151 Butadiene	54	1.449	1.450	-0.001	94	373554	25.0	25.4	
14 Bromomethane	94	1.740	1.740	0.000	90	261056	25.0	25.5	
15 Chloroethane	64	1.823	1.823	0.000	99	243559	25.0	26.0	
16 Dichlorofluoromethane	67	2.040	2.040	0.000	98	558094	25.0	23.6	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	97	512466	25.0	25.9	
18 Ethyl ether	59	2.330	2.331	-0.001	96	317597	25.0	26.1	
148 Ethanol	45	2.330	2.330	-0.031	0	361625	1000.0	1691.1	a
20 Acrolein	56	2.517	2.517	0.000	99	238159	125.0	86.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	93	299556	25.0	29.6	
22 1,1-Dichloroethene	96	2.548	2.538	0.010	97	309450	25.0	28.2	
23 Acetone	43	2.662	2.662	0.000	99	633860	125.0	113.1	
25 Iodomethane	142	2.703	2.704	-0.001	99	563785	25.0	25.9	
26 Carbon disulfide	76	2.734	2.735	-0.001	100	867005	25.0	23.8	
24 Isopropyl alcohol	45	2.848	2.848	0.000	99	200233	250.0	155.3	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	89	531702	25.0	22.6	
27 Methyl acetate	43	2.942	2.942	0.000	99	662338	50.0	44.8	
29 Acetonitrile	40	2.962	2.962	0.000	98	212637	250.0	177.3	
30 Methylene Chloride	84	3.035	3.035	0.000	97	361659	25.0	25.6	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	98	454189	250.0	223.3	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	977385	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	99	347926	25.0	26.0	
33 Acrylonitrile	53	3.294	3.294	0.000	98	1578184	250.0	248.0	
35 Hexane	57	3.408	3.408	0.000	95	446479	25.0	29.2	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	607851	25.0	25.1	
36 Isopropyl ether	45	3.615	3.615	0.000	97	1282232	25.0	26.8	
135 Halothane	117	3.646	3.646	0.000	91	279867	25.0	27.6	
40 2-Chloro-1,3-butadiene	53	3.657	3.657	0.000	62	604834	25.0	27.2	
37 Vinyl acetate	43	3.657	3.657	0.000	97	2016723	50.0	75.9	
38 1,1-Dimethoxyethane	75	3.688	3.688	0.000	96	311057	125.0	103.6	
41 Tert-butyl ethyl ether	59	3.906	3.905	0.001	97	1115903	25.0	24.9	
19 Propene oxide	58		3.906				ND	ND	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	92	275673	25.0	21.6	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	395396	25.0	24.7	
43 2-Butanone (MEK)	43	4.134	4.134	0.021	99	1843769	125.0	243.6	a
42 Ethyl acetate	43	4.134	4.133	0.001	99	1866929	50.0	137.6	
46 Propionitrile	54	4.206	4.206	0.000	99	588917	250.0	253.6	
48 Chlorobromomethane	128	4.289	4.289	0.000	92	211589	25.0	25.9	
47 Methacrylonitrile	41	4.299	4.299	0.000	96	2848679	250.0	302.7	
49 Tetrahydrofuran	42	4.299	4.300	-0.001	31	363102	50.0	64.2	
50 Chloroform	83	4.351	4.351	0.000	94	595791	25.0	24.5	
51 1,1,1-Trichloroethane	97	4.444	4.434	0.010	98	518497	25.0	27.3	
52 Cyclohexane	56	4.444	4.445	-0.001	94	594830	25.0	29.6	
55 Carbon tetrachloride	117	4.548	4.548	0.000	96	459552	25.0	30.9	
54 1,1-Dichloropropene	75	4.558	4.559	-0.001	93	436275	25.0	27.2	
152 Isooctane	57	4.724	4.724	0.000	89	1075580	25.0	30.2	
57 Benzene	78	4.735	4.735	0.000	96	1325915	25.0	26.5	
53 Isobutyl alcohol	43	4.745	4.745	0.000	96	646228	625.0	820.0	
147 t-Amyl alcohol	59	4.786	4.787	0.000	64	415931	250.0	237.9	
56 Tert-amyl methyl ether	73	4.786	4.786	0.000	94	1209636	25.0	25.1	
58 1,2-Dichloroethane	62	4.786	4.787	-0.001	69	492385	25.0	23.4	
59 n-Heptane	43	4.859	4.859	0.000	96	468192	25.0	32.4	
1 1,4-Difluorobenzene	114	5.035	5.035	0.000	94	1156065	25.0	32.0	
141 2,4,4-Trimethyl-1-pentene	55	5.118	5.118	0.000	98	225568	NC	NC	
62 Trichloroethene	95	5.222	5.222	0.000	95	357215	25.0	26.9	
60 n-Butanol	56	5.232	5.232	0.000	89	280633	625.0	660.3	
142 Ethyl acrylate	55	5.305	5.305	0.001	95	1555505	25.0	44.1	
140 2,4,4-Trimethyl-2-pentene	97	5.305	5.305	0.001	90	682823	NC	NC	
64 Methylcyclohexane	83	5.315	5.315	0.000	75	531513	25.0	29.9	
65 1,2-Dichloropropane	63	5.408	5.409	0.000	93	335750	25.0	26.2	
63 Methyl methacrylate	41	5.481	5.481	0.000	95	755869	50.0	64.9	
67 Dibromomethane	93	5.522	5.523	0.000	92	233413	25.0	27.0	
66 1,4-Dioxane	88	5.522	5.522	0.000	37	87086	500.0	486.1	M
68 Dichlorobromomethane	83	5.636	5.637	0.000	98	430543	25.0	29.3	
70 2-Nitropropane	43	5.843	5.833	0.010	86	351241	50.0	144.8	
69 2-Chloroethyl vinyl ether	63	5.843	5.844	-0.001	85	232439	25.0	30.5	
71 Epichlorohydrin	57	5.926	5.927	0.000	99	413846	250.0	295.8	
72 cis-1,3-Dichloropropene	75	5.957	5.958	-0.001	93	515043	25.0	30.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.061	0.000	98	2122771	125.0	121.4	
74 Toluene	92	6.175	6.175	0.000	98	849864	25.0	25.7	
77 trans-1,3-Dichloropropene	75	6.393	6.393	0.000	96	453828	25.0	28.2	
75 Ethyl methacrylate	69	6.413	6.414	-0.001	90	413453	25.0	26.7	
79 1,1,2-Trichloroethane	83	6.538	6.538	0.000	89	252025	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
81 Tetrachloroethene	166	6.590	6.590	0.000	97	435249	25.0	30.5	
82 1,3-Dichloropropane	76	6.662	6.663	0.000	95	517915	25.0	27.1	
80 2-Hexanone	43	6.704	6.704	0.000	99	1488810	125.0	135.6	
155 n-Butyl acetate	43	6.766	6.776	-0.010	99	657930	25.0	28.8	
83 Chlorodibromomethane	129	6.849	6.849	0.000	90	339970	25.0	31.5	
84 Ethylene Dibromide	107	6.932	6.932	0.000	99	335187	25.0	28.2	
146 1-Chlorohexane	55	7.222	7.222	0.000	96	341075	25.0	26.6	
85 3-Chlorobenzotrifluoride	180	7.232	7.243	-0.010	91	586761	25.0	29.5	
86 4-Chlorobenzotrifluoride	180	7.284	7.284	0.000	76	538610	25.0	29.9	
87 Chlorobenzene	112	7.284	7.284	0.000	94	986918	25.0	25.6	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1576640	25.0	25.1	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.347	0.000	94	356786	25.0	28.1	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	98	643530	25.0	25.4	
91 o-Xylene	106	7.750	7.751	0.000	97	646742	25.0	24.2	
92 Styrene	104	7.771	7.771	0.000	95	1026675	25.0	26.1	
95 Bromoform	173	7.968	7.968	0.000	63	202001	25.0	32.2	
93 2-Chlorobenzotrifluoride	180	7.978	7.978	0.000	98	593330	25.0	27.6	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1656966	25.0	24.9	
96 Cyclohexanone	55	8.185	8.186	0.000	95	163729	250.0	192.3	
101 Bromobenzene	156	8.320	8.321	0.000	90	439905	25.0	26.1	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	95	412417	25.0	24.8	
99 N-Propylbenzene	91	8.362	8.362	0.000	99	1806380	25.0	24.7	
100 1,2,3-Trichloropropane	110	8.382	8.383	-0.001	87	145862	25.0	25.6	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.383	-0.001	73	116156	25.0	23.3	
103 2-Chlorotoluene	126	8.455	8.455	0.000	98	413030	25.0	24.0	a
104 3-Chlorotoluene	126	8.507	8.507	0.000	97	462411	25.0	27.5	M
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	94	1415116	25.0	25.5	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	434463	25.0	25.7	M
106 tert-Butylbenzene	134	8.766	8.766	0.000	92	322981	25.0	26.2	
107 1,2,4-Trimethylbenzene	105	8.807	8.808	0.000	96	1458857	25.0	24.9	
108 Pentachloroethane	167	8.828	8.828	0.000	94	232360	25.0	43.0	
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	1700857	25.0	25.9	
110 4-Isopropyltoluene	119	9.056	9.056	0.000	98	1532303	25.0	26.5	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	828739	25.0	23.9	
114 Dicyclopentadiene	66	9.128	9.129	0.000	96	1614963	25.0	23.5	
113 1,4-Dichlorobenzene	146	9.149	9.150	0.000	95	849890	25.0	24.2	
112 1,2,3-Trimethylbenzene	105	9.170	9.170	0.000	98	1572331	25.0	26.1	
150 Benzyl chloride	126	9.274	9.274	0.000	99	149859	25.0	35.1	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	1227390	25.0	24.8	
116 1,2-Dichlorobenzene	146	9.460	9.461	0.000	98	838098	25.0	24.3	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	84	75472	25.0	24.8	
118 1,3,5-Trichlorobenzene	180	10.258	10.258	0.000	98	640116	25.0	26.7	
119 1,2,4-Trichlorobenzene	180	10.776	10.777	0.000	95	603177	25.0	24.1	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	95	253846	25.0	27.4	
121 Naphthalene	128	10.994	10.994	0.000	97	1617576	25.0	23.1	
122 1,2,3-Trichlorobenzene	180	11.180	11.181	-0.001	96	590844	25.0	24.8	
149 2-Methylnaphthalene	142	11.854	11.854	0.000	92	999014	25.0	23.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00148	Amount Added: 12.50	Units: uL	
GAS CORP mix_00328	Amount Added: 12.50	Units: uL	
ADD CORP mix_00082	Amount Added: 12.50	Units: uL	
3_MCP_Add_WRK_00199	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5003.D

Injection Date: 01-Mar-2019 22:24:30 Instrument ID: HP5973C

Lims ID: LCS

Operator ID: NC

Client ID:

Worklist Smp#: 5

Purge Vol: 5.000 mL

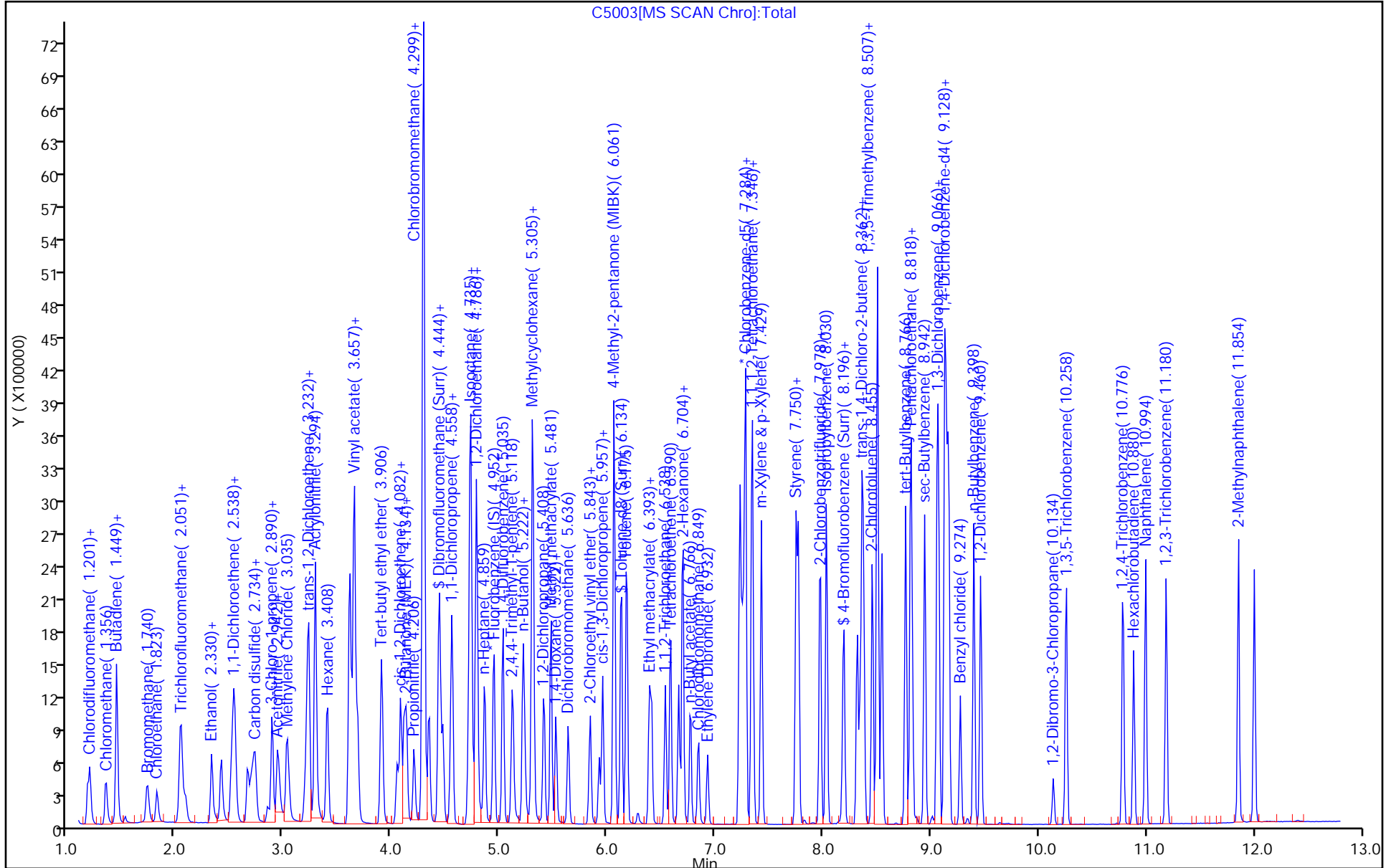
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

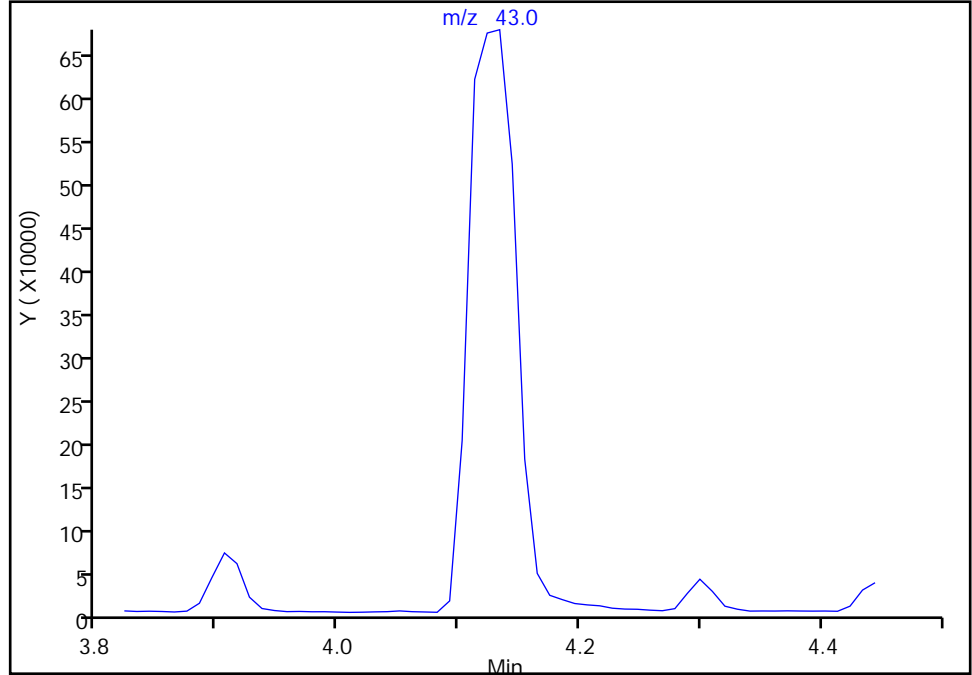
Data File: \\chromna\Buffalo\ChromData\HP5973C\20190301-79070.b\C5003.D
Injection Date: 01-Mar-2019 22:24:30 Instrument ID: HP5973C
Lims ID: LCS
Client ID:
Operator ID: NC ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

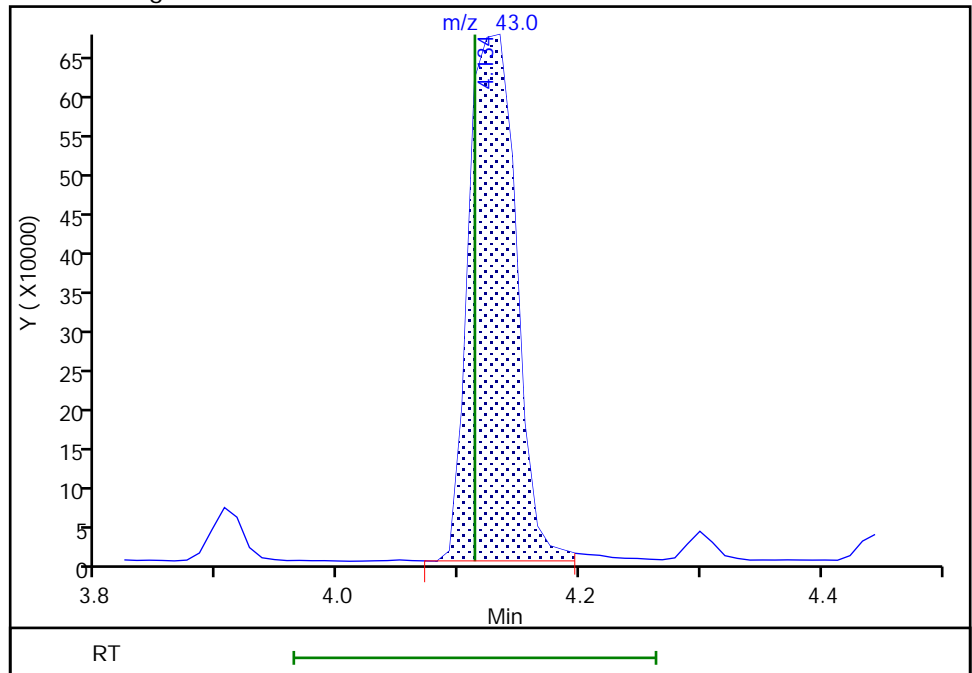
Not Detected
Expected RT: 4.11

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 1843769
Amount: 243.5806
Amount Units: ug/L



Reviewer: carrolln, 01-Mar-2019 23:10:35
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-461298/5
 Matrix: Water Lab File ID: C5030.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 14:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	28.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.0		1.0	0.31
75-34-3	1,1-Dichloroethane	25.7		1.0	0.38
75-35-4	1,1-Dichloroethene	28.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.2		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.6		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.4		1.0	0.79
107-06-2	1,2-Dichloroethane	24.6		1.0	0.21
78-87-5	1,2-Dichloropropane	26.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.7		1.0	0.84
78-93-3	2-Butanone (MEK)	134		10	1.3
591-78-6	2-Hexanone	133		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	117		5.0	2.1
67-64-1	Acetone	130		10	3.0
71-43-2	Benzene	28.0		1.0	0.41
75-27-4	Bromodichloromethane	29.6		1.0	0.39
75-25-2	Bromoform	31.0		1.0	0.26
74-83-9	Bromomethane	28.7		1.0	0.69
75-15-0	Carbon disulfide	25.5		1.0	0.19
56-23-5	Carbon tetrachloride	31.7		1.0	0.27
108-90-7	Chlorobenzene	25.4		1.0	0.75
124-48-1	Dibromochloromethane	30.3		1.0	0.32
75-00-3	Chloroethane	27.9		1.0	0.32
67-66-3	Chloroform	25.4		1.0	0.34
74-87-3	Chloromethane	28.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	30.2		1.0	0.36
110-82-7	Cyclohexane	29.9		1.0	0.18
75-71-8	Dichlorodifluoromethane	31.2		1.0	0.68
100-41-4	Ethylbenzene	24.8		1.0	0.74
106-93-4	1,2-Dibromoethane	27.8		1.0	0.73
98-82-8	Isopropylbenzene	24.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-461298/5
 Matrix: Water Lab File ID: C5030.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 14:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	43.2		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.0		1.0	0.16
108-87-2	Methylcyclohexane	30.1		1.0	0.16
75-09-2	Methylene Chloride	25.0		1.0	0.44
100-42-5	Styrene	25.6		1.0	0.73
127-18-4	Tetrachloroethene	28.7		1.0	0.36
108-88-3	Toluene	25.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.5		1.0	0.37
79-01-6	Trichloroethene	27.8		1.0	0.46
75-69-4	Trichlorofluoromethane	28.0		1.0	0.88
75-01-4	Vinyl chloride	29.4		1.0	0.90
1330-20-7	Xylenes, Total	48.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5030.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 02-Mar-2019 14:19:30 ALS Bottle#: 6 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0079075-005
 Operator ID: OI Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-Mar-2019 14:40:39 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0315

First Level Reviewer: izquierdo

Date: 02-Mar-2019 14:46:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	205771	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.263	7.253	0.010	86	459567	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.128	9.129	-0.001	94	479535	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.475	4.475	-0.001	94	318009	25.0	27.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	62	186738	25.0	25.9	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.142	0.000	94	1198155	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.207	0.000	95	381900	25.0	26.4	
10 Dichlorodifluoromethane	85	1.190	1.191	-0.001	99	431790	25.0	31.2	
12 Chloromethane	50	1.356	1.356	0.000	99	497302	25.0	28.4	
13 Vinyl chloride	62	1.449	1.450	-0.001	98	418981	25.0	29.4	
151 Butadiene	54	1.460	1.450	0.010	97	444086	25.0	31.4	
14 Bromomethane	94	1.740	1.740	0.000	90	283613	25.0	28.7	
15 Chloroethane	64	1.833	1.833	0.000	99	251430	25.0	27.9	
16 Dichlorofluoromethane	67	2.051	2.051	-0.001	95	591333	25.0	25.9	
17 Trichlorofluoromethane	101	2.051	2.051	-0.001	74	533028	25.0	28.0	
18 Ethyl ether	59	2.330	2.331	-0.001	95	315614	25.0	27.0	
20 Acrolein	56	2.517	2.517	0.000	98	232756	125.0	88.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	92	292792	25.0	30.0	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	96	301781	25.0	28.6	
23 Acetone	43	2.672	2.673	0.000	99	700258	125.0	129.8	
25 Iodomethane	142	2.703	2.704	-0.001	100	580722	25.0	27.7	
26 Carbon disulfide	76	2.734	2.735	-0.001	100	892379	25.0	25.5	
28 3-Chloro-1-propene	41	2.890	2.890	0.000	89	572539	25.0	25.3	
27 Methyl acetate	43	2.942	2.942	0.000	99	615274	50.0	43.2	
30 Methylene Chloride	84	3.035	3.035	0.000	98	340080	25.0	25.0	
31 2-Methyl-2-propanol	59	3.201	3.201	0.000	98	433107	250.0	221.2	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	100	924035	25.0	25.0	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	352503	25.0	27.3	
33 Acrylonitrile	53	3.294	3.294	0.000	99	1505741	250.0	245.8	
35 Hexane	57	3.408	3.408	0.000	95	445843	25.0	30.3	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	598179	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.657	3.657	0.000	97	1596871	50.0	62.4	
44 2,2-Dichloropropane	77	4.051	4.051	0.000	93	303015	25.0	24.7	
45 cis-1,2-Dichloroethene	96	4.082	4.082	0.000	80	393751	25.0	25.6	
43 2-Butanone (MEK)	43	4.113	4.113	0.000	99	977126	125.0	134.1	
48 Chlorobromomethane	128	4.289	4.289	0.000	96	207364	25.0	26.4	
49 Tetrahydrofuran	42	4.299	4.300	-0.001	91	248474	50.0	45.6	
50 Chloroform	83	4.351	4.351	0.000	95	594785	25.0	25.4	
51 1,1,1-Trichloroethane	97	4.444	4.445	-0.001	98	510960	25.0	28.0	
52 Cyclohexane	56	4.444	4.445	-0.001	93	578613	25.0	29.9	
55 Carbon tetrachloride	117	4.548	4.548	0.000	97	453741	25.0	31.7	
54 1,1-Dichloropropene	75	4.558	4.559	-0.001	93	451577	25.0	29.2	
57 Benzene	78	4.735	4.735	0.000	96	1348827	25.0	28.0	
53 Isobutyl alcohol	43	4.745	4.745	0.000	94	474661	625.0	625.8	
58 1,2-Dichloroethane	62	4.786	4.787	-0.001	97	498131	25.0	24.6	
59 n-Heptane	43	4.859	4.859	0.000	95	480376	25.0	34.5	
62 Trichloroethene	95	5.222	5.222	0.000	95	355711	25.0	27.8	
64 Methylcyclohexane	83	5.315	5.315	0.000	94	514586	25.0	30.1	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	91	327852	25.0	26.6	
67 Dibromomethane	93	5.522	5.522	0.000	91	225417	25.0	27.1	
66 1,4-Dioxane	88	5.522	5.530	0.000	36	78460	500.0	442.9	
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	419713	25.0	29.6	
69 2-Chloroethyl vinyl ether	63	5.843	5.844	-0.001	94	214987	25.0	29.3	
72 cis-1,3-Dichloropropene	75	5.957	5.958	-0.001	92	486672	25.0	30.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.070	0.000	99	2023764	125.0	117.0	
74 Toluene	92	6.175	6.184	0.000	98	840804	25.0	25.7	
77 trans-1,3-Dichloropropene	75	6.393	6.402	0.000	96	454660	25.0	28.5	
75 Ethyl methacrylate	69	6.413	6.423	-0.001	92	387676	25.0	25.3	
79 1,1,2-Trichloroethane	83	6.538	6.547	0.000	91	244297	25.0	25.1	
81 Tetrachloroethene	166	6.590	6.599	0.000	97	405216	25.0	28.7	
82 1,3-Dichloropropane	76	6.662	6.672	0.000	95	498025	25.0	26.3	
80 2-Hexanone	43	6.704	6.713	0.000	99	1448575	125.0	133.4	
83 Chlorodibromomethane	129	6.849	6.858	0.000	90	323220	25.0	30.3	
84 Ethylene Dibromide	107	6.932	6.941	0.000	99	326896	25.0	27.8	
87 Chlorobenzene	112	7.284	7.294	0.000	96	968121	25.0	25.4	
88 Ethylbenzene	91	7.336	7.346	0.000	98	1543281	25.0	24.8	
89 1,1,1,2-Tetrachloroethane	131	7.346	7.357	0.000	93	356523	25.0	28.4	
90 m-Xylene & p-Xylene	106	7.429	7.440	0.000	97	630242	25.0	25.2	
91 o-Xylene	106	7.750	7.761	0.000	98	621752	25.0	23.5	
92 Styrene	104	7.771	7.782	0.000	96	995000	25.0	25.6	
95 Bromoform	173	7.968	7.979	0.000	97	192449	25.0	31.0	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1633798	25.0	24.9	
101 Bromobenzene	156	8.320	8.320	0.000	90	430178	25.0	25.9	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	97	391820	25.0	23.9	
99 N-Propylbenzene	91	8.362	8.362	0.000	98	1773007	25.0	24.6	
100 1,2,3-Trichloropropane	110	8.382	8.372	0.010	89	138221	25.0	24.7	
98 trans-1,4-Dichloro-2-buten	53	8.382	8.382	-0.001	74	117129	25.0	23.9	
103 2-Chlorotoluene	126	8.455	8.455	0.000	97	406217	25.0	24.0	
102 1,3,5-Trimethylbenzene	105	8.507	8.507	0.000	94	1384701	25.0	25.3	
105 4-Chlorotoluene	126	8.548	8.548	0.000	97	418519	25.0	25.1	
106 tert-Butylbenzene	134	8.766	8.766	0.000	93	316154	25.0	26.0	
107 1,2,4-Trimethylbenzene	105	8.807	8.807	0.000	97	1460360	25.0	25.3	
109 sec-Butylbenzene	105	8.942	8.942	0.000	94	1693058	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	9.056	9.056	0.000	97	1484136	25.0	26.1	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	851064	25.0	25.0	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	95	852453	25.0	24.7	
115 n-Butylbenzene	91	9.398	9.398	0.000	97	1225402	25.0	25.2	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	99	824892	25.0	24.4	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	85	70570	25.0	23.6	
119 1,2,4-Trichlorobenzene	180	10.776	10.776	0.000	95	595967	25.0	24.2	
120 Hexachlorobutadiene	225	10.880	10.880	0.000	95	265585	25.0	29.1	
121 Naphthalene	128	10.994	10.994	0.000	97	1566970	25.0	22.7	
122 1,2,3-Trichlorobenzene	180	11.180	11.180	-0.001	96	574641	25.0	24.5	

Reagents:

8260 CORP mix_00148	Amount Added: 12.50	Units: uL	
GAS CORP mix_00329	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5030.D

Injection Date: 02-Mar-2019 14:19:30

Instrument ID: HP5973C

Operator ID: OI

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

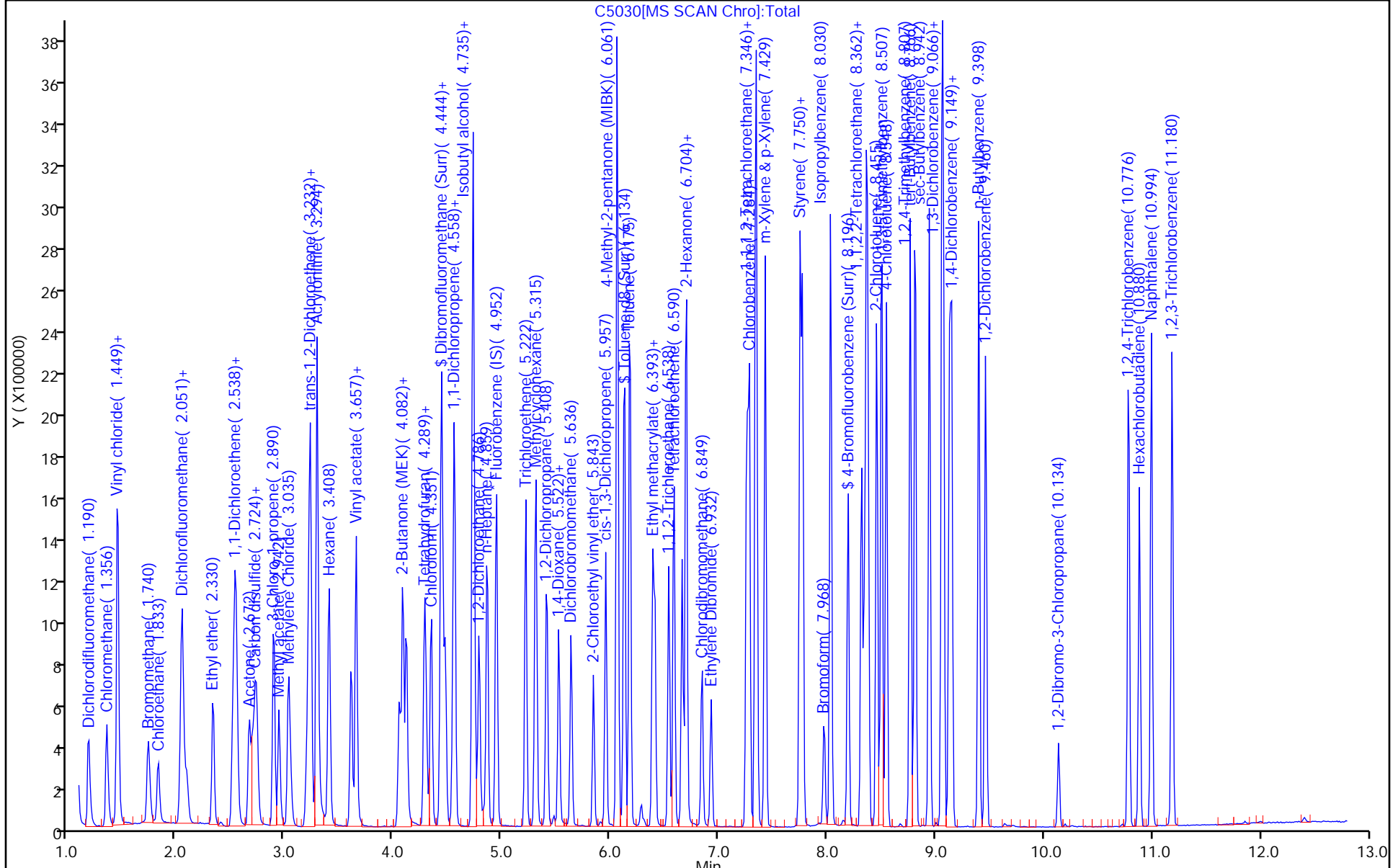
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 MS Lab Sample ID: 480-149618-8 MS
 Matrix: Water Lab File ID: C5047.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 22:23
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	112		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	92.7		4.0	0.84
79-00-5	1,1,2-Trichloroethane	101		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	124		4.0	1.2
75-34-3	1,1-Dichloroethane	104		4.0	1.5
75-35-4	1,1-Dichloroethene	113		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	90.1		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	86.8		4.0	1.6
95-50-1	1,2-Dichlorobenzene	94.3		4.0	3.2
107-06-2	1,2-Dichloroethane	94.9		4.0	0.84
78-87-5	1,2-Dichloropropane	103		4.0	2.9
541-73-1	1,3-Dichlorobenzene	95.5		4.0	3.1
106-46-7	1,4-Dichlorobenzene	94.3		4.0	3.4
78-93-3	2-Butanone (MEK)	495		40	5.3
591-78-6	2-Hexanone	526		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	471		20	8.4
67-64-1	Acetone	429		40	12
71-43-2	Benzene	112		4.0	1.6
75-27-4	Bromodichloromethane	114		4.0	1.6
75-25-2	Bromoform	122		4.0	1.0
74-83-9	Bromomethane	105		4.0	2.8
75-15-0	Carbon disulfide	101		4.0	0.76
56-23-5	Carbon tetrachloride	125		4.0	1.1
108-90-7	Chlorobenzene	103		4.0	3.0
124-48-1	Dibromochloromethane	120		4.0	1.3
75-00-3	Chloroethane	166		4.0	1.3
67-66-3	Chloroform	101		4.0	1.4
74-87-3	Chloromethane	98.6		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	99.3		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	111		4.0	1.4
110-82-7	Cyclohexane	118		4.0	0.72
75-71-8	Dichlorodifluoromethane	120		4.0	2.7
100-41-4	Ethylbenzene	102		4.0	3.0
106-93-4	1,2-Dibromoethane	111		4.0	2.9
98-82-8	Isopropylbenzene	97.5		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 MS Lab Sample ID: 480-149618-8 MS
 Matrix: Water Lab File ID: C5047.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 22:23
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	164		10	5.2
1634-04-4	Methyl tert-butyl ether	98.5		4.0	0.64
108-87-2	Methylcyclohexane	120		4.0	0.64
75-09-2	Methylene Chloride	99.0		4.0	1.8
100-42-5	Styrene	103		4.0	2.9
127-18-4	Tetrachloroethene	116		4.0	1.4
108-88-3	Toluene	106		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	107		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	108		4.0	1.5
79-01-6	Trichloroethene	108		4.0	1.8
75-69-4	Trichlorofluoromethane	109		4.0	3.5
75-01-4	Vinyl chloride	110		4.0	3.6
1330-20-7	Xylenes, Total	208		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5047.D
 Lims ID: 480-149618-B-8 MS
 Client ID: LAB-SBW-15
 Sample Type: MS
 Inject. Date: 02-Mar-2019 22:23:30 ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-149618-B-8 MS
 Misc. Info.: 480-0079075-023
 Operator ID: OI Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Mar-2019 14:00:56 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0308

First Level Reviewer: farrellr

Date: 04-Mar-2019 14:01:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	202203	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.253	0.000	85	433432	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	94	475557	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	93	299994	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	55	176256	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.142	0.000	94	1128370	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.208	0.000	95	365253	25.0	26.7	
10 Dichlorodifluoromethane	85	1.191	1.190	0.001	99	408035	25.0	30.0	
12 Chloromethane	50	1.356	1.356	0.000	99	424676	25.0	24.7	
13 Vinyl chloride	62	1.450	1.450	0.000	98	386869	25.0	27.6	
14 Bromomethane	94	1.740	1.740	0.000	89	255107	25.0	26.3	
15 Chloroethane	64	1.833	1.823	0.010	99	367309	25.0	41.5	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	97	508275	25.0	27.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	92	296447	25.0	31.0	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	96	293439	25.0	28.3	
23 Acetone	43	2.662	2.662	-0.010	99	568770	125.0	107.3	
26 Carbon disulfide	76	2.735	2.735	0.000	100	863869	25.0	25.1	
27 Methyl acetate	43	2.942	2.942	0.000	99	574449	50.0	41.1	
30 Methylene Chloride	84	3.035	3.035	0.000	97	330764	25.0	24.8	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	894999	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	337566	25.0	26.6	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	97	592385	25.0	25.9	
45 cis-1,2-Dichloroethene	96	4.082	4.092	-0.010	80	375935	25.0	24.8	
43 2-Butanone (MEK)	43	4.113	4.134	-0.021	99	886648	125.0	123.9	
50 Chloroform	83	4.351	4.351	0.000	95	578515	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.445	4.444	0.001	99	502506	25.0	28.0	
52 Cyclohexane	56	4.445	4.444	0.001	94	562989	25.0	29.6	
55 Carbon tetrachloride	117	4.548	4.548	0.000	96	440136	25.0	31.3	
57 Benzene	78	4.735	4.735	0.000	97	1328942	25.0	28.1	
58 1,2-Dichloroethane	62	4.787	4.787	0.000	97	471844	25.0	23.7	
62 Trichloroethene	95	5.222	5.222	0.000	95	338807	25.0	26.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	94	502532	25.0	29.9	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	91	312303	25.0	25.7	
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	398099	25.0	28.6	
72 cis-1,3-Dichloropropene	75	5.958	5.957	0.001	92	439870	25.0	27.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.070	0.000	99	1922055	125.0	117.8	
74 Toluene	92	6.175	6.186	0.000	98	815423	25.0	26.4	
77 trans-1,3-Dichloropropene	75	6.393	6.402	0.000	97	404743	25.0	26.9	
79 1,1,2-Trichloroethane	83	6.538	6.547	0.000	91	231969	25.0	25.2	
81 Tetrachloroethene	166	6.590	6.589	0.000	97	384808	25.0	28.9	
80 2-Hexanone	43	6.704	6.713	0.000	99	1345914	125.0	131.4	
83 Chlorodibromomethane	129	6.849	6.858	0.000	90	300477	25.0	29.9	
84 Ethylene Dibromide	107	6.932	6.942	0.000	99	308326	25.0	27.8	
87 Chlorobenzene	112	7.284	7.294	0.000	96	926508	25.0	25.8	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1498154	25.0	25.5	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	642550		27.2	
91 o-Xylene	106	7.750	7.761	0.000	97	615741		24.7	
92 Styrene	104	7.771	7.781	0.000	96	943246	25.0	25.7	
95 Bromoform	173	7.968	7.979	0.000	97	177877	25.0	30.4	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1586089	25.0	24.4	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	96	376015	25.0	23.2	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	98	807164	25.0	23.9	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	97	806683	25.0	23.6	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	98	792078	25.0	23.6	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	86	64482	25.0	21.7	
119 1,2,4-Trichlorobenzene	180	10.776	10.776	0.000	95	549618	25.0	22.5	
S 124 Xylenes, Total	1				0			51.9	

Reagents:

8260 CORP mix_00148	Amount Added: 12.50	Units: uL	
GAS CORP mix_00329	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5047.D

Injection Date: 02-Mar-2019 22:23:30

Instrument ID: HP5973C

Operator ID: OI

Lims ID: 480-149618-B-8 MS

Worklist Smp#: 23

Client ID: LAB-SBW-15

Purge Vol: 5.000 mL

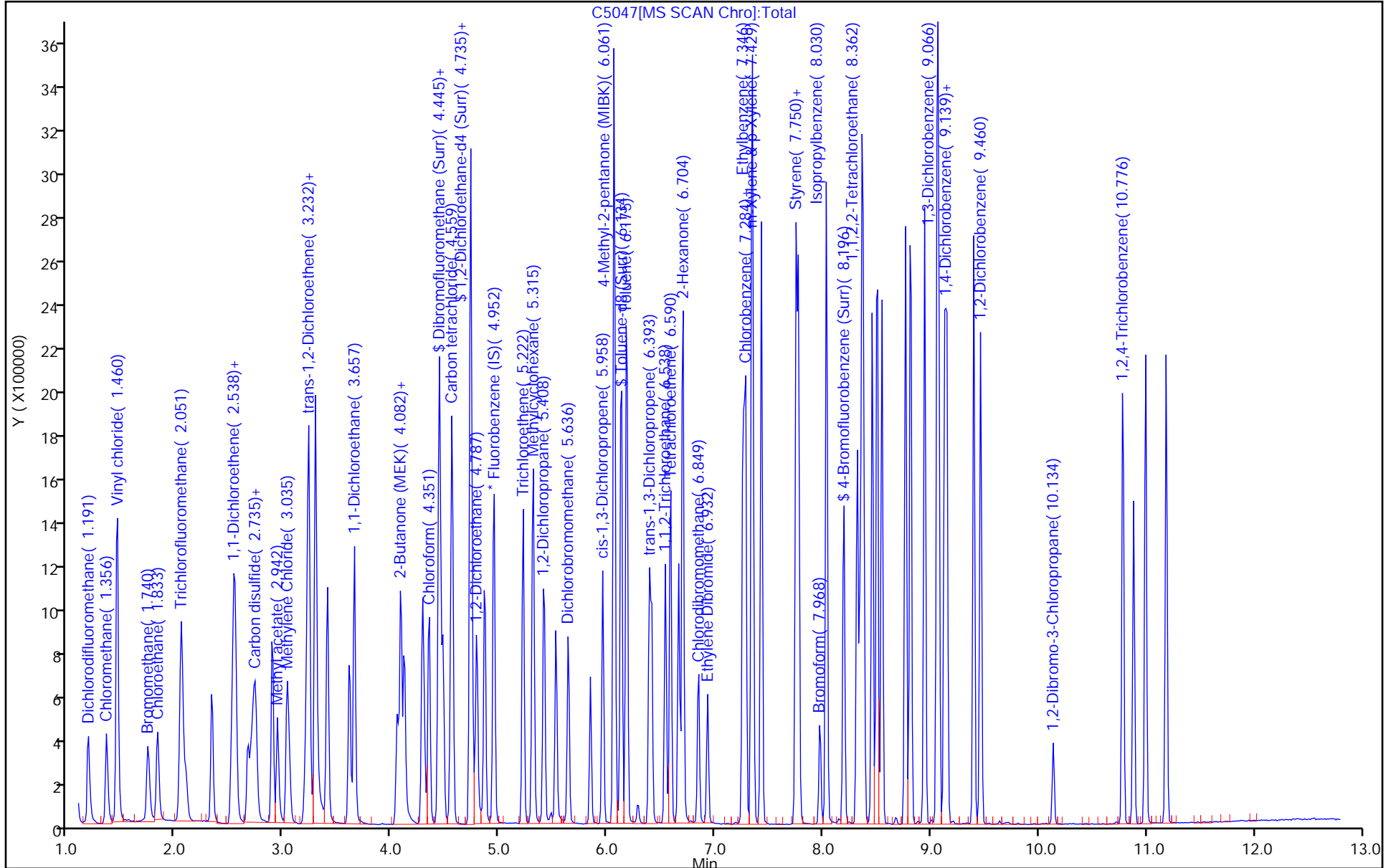
Dil. Factor: 4.0000

ALS Bottle#: 23

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 MSD Lab Sample ID: 480-149618-8 MSD
 Matrix: Water Lab File ID: C5048.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 22:49
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	108		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	95.3		4.0	0.84
79-00-5	1,1,2-Trichloroethane	104		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	113		4.0	1.2
75-34-3	1,1-Dichloroethane	99.2		4.0	1.5
75-35-4	1,1-Dichloroethene	105		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	90.5		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	92.5		4.0	1.6
95-50-1	1,2-Dichlorobenzene	95.7		4.0	3.2
107-06-2	1,2-Dichloroethane	94.1		4.0	0.84
78-87-5	1,2-Dichloropropane	99.9		4.0	2.9
541-73-1	1,3-Dichlorobenzene	94.9		4.0	3.1
106-46-7	1,4-Dichlorobenzene	96.1		4.0	3.4
78-93-3	2-Butanone (MEK)	507		40	5.3
591-78-6	2-Hexanone	544		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	477		20	8.4
67-64-1	Acetone	430		40	12
71-43-2	Benzene	109		4.0	1.6
75-27-4	Bromodichloromethane	112		4.0	1.6
75-25-2	Bromoform	128		4.0	1.0
74-83-9	Bromomethane	97.9		4.0	2.8
75-15-0	Carbon disulfide	93.2		4.0	0.76
56-23-5	Carbon tetrachloride	119		4.0	1.1
108-90-7	Chlorobenzene	104		4.0	3.0
124-48-1	Dibromochloromethane	126		4.0	1.3
75-00-3	Chloroethane	156		4.0	1.3
67-66-3	Chloroform	97.6		4.0	1.4
74-87-3	Chloromethane	93.2		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	98.6		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	111		4.0	1.4
110-82-7	Cyclohexane	111		4.0	0.72
75-71-8	Dichlorodifluoromethane	111		4.0	2.7
100-41-4	Ethylbenzene	102		4.0	3.0
106-93-4	1,2-Dibromoethane	114		4.0	2.9
98-82-8	Isopropylbenzene	95.8		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 MSD Lab Sample ID: 480-149618-8 MSD
 Matrix: Water Lab File ID: C5048.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 22:49
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	161		10	5.2
1634-04-4	Methyl tert-butyl ether	98.6		4.0	0.64
108-87-2	Methylcyclohexane	112		4.0	0.64
75-09-2	Methylene Chloride	95.6		4.0	1.8
100-42-5	Styrene	101		4.0	2.9
127-18-4	Tetrachloroethene	114		4.0	1.4
108-88-3	Toluene	106		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	102		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	112		4.0	1.5
79-01-6	Trichloroethene	104		4.0	1.8
75-69-4	Trichlorofluoromethane	100		4.0	3.5
75-01-4	Vinyl chloride	105		4.0	3.6
1330-20-7	Xylenes, Total	204		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5048.D
 Lims ID: 480-149618-B-8 MSD
 Client ID: LAB-SBW-15
 Sample Type: MSD
 Inject. Date: 02-Mar-2019 22:49:30 ALS Bottle#: 24 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 4.0000
 Sample Info: 480-149618-B-8 MSD
 Misc. Info.: 480-0079075-024
 Operator ID: OI Instrument ID: HP5973C
 Method: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Mar-2019 14:00:56 Calib Date: 09-Jan-2019 22:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973C\20190109-77863.b\C3469.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX0308

First Level Reviewer: farrellr

Date: 04-Mar-2019 14:02:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.952	4.952	0.000	99	207304	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.253	7.253	0.000	87	431341	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.129	9.129	0.000	94	473907	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.476	4.476	0.000	94	316621	25.0	26.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	4.735	4.735	0.000	75	184900	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	6.134	6.142	0.000	93	1149507	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	8.196	8.208	0.000	97	380978	25.0	28.0	
10 Dichlorodifluoromethane	85	1.180	1.190	-0.010	99	385907	25.0	27.7	
12 Chloromethane	50	1.356	1.356	0.000	99	411385	25.0	23.3	
13 Vinyl chloride	62	1.450	1.450	0.000	98	376545	25.0	26.2	
14 Bromomethane	94	1.740	1.740	0.000	90	243297	25.0	24.5	
15 Chloroethane	64	1.823	1.823	0.000	99	354158	25.0	39.0	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	76	479205	25.0	25.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.538	0.000	92	277208	25.0	28.2	
22 1,1-Dichloroethene	96	2.548	2.548	0.000	97	279730	25.0	26.3	
23 Acetone	43	2.662	2.662	-0.010	99	584399	125.0	107.6	
26 Carbon disulfide	76	2.735	2.735	0.000	100	820888	25.0	23.3	
27 Methyl acetate	43	2.942	2.942	0.000	99	576743	50.0	40.2	
30 Methylene Chloride	84	3.035	3.035	0.000	98	327395	25.0	23.9	
32 Methyl tert-butyl ether	73	3.222	3.222	0.000	99	918020	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.232	3.232	0.000	98	333018	25.0	25.6	
39 1,1-Dichloroethane	63	3.605	3.605	0.000	96	581555	25.0	24.8	
45 cis-1,2-Dichloroethene	96	4.082	4.092	-0.010	79	382435	25.0	24.6	
43 2-Butanone (MEK)	43	4.113	4.134	-0.021	99	929510	125.0	126.7	
50 Chloroform	83	4.351	4.351	0.000	95	576067	25.0	24.4	
51 1,1,1-Trichloroethane	97	4.445	4.444	0.001	98	494593	25.0	26.9	
52 Cyclohexane	56	4.445	4.444	0.001	94	543374	25.0	27.9	
55 Carbon tetrachloride	117	4.559	4.548	0.011	97	428053	25.0	29.6	
57 Benzene	78	4.735	4.735	0.000	96	1324750	25.0	27.3	
58 1,2-Dichloroethane	62	4.787	4.787	0.001	97	479869	25.0	23.5	
62 Trichloroethene	95	5.222	5.222	0.000	95	333864	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.315	5.315	0.000	94	483223	25.0	28.1	
65 1,2-Dichloropropane	63	5.408	5.408	0.000	92	310576	25.0	25.0	
68 Dichlorobromomethane	83	5.636	5.636	0.000	98	400687	25.0	28.1	
72 cis-1,3-Dichloropropene	75	5.958	5.957	0.001	93	449574	25.0	27.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.061	6.070	0.000	98	1937632	125.0	119.4	
74 Toluene	92	6.175	6.186	0.000	98	809872	25.0	26.4	
77 trans-1,3-Dichloropropene	75	6.393	6.402	0.000	96	417983	25.0	27.9	
79 1,1,2-Trichloroethane	83	6.538	6.547	0.000	92	237516	25.0	26.0	
81 Tetrachloroethene	166	6.590	6.589	0.000	97	377457	25.0	28.5	
80 2-Hexanone	43	6.704	6.713	0.000	98	1386539	125.0	136.0	
83 Chlorodibromomethane	129	6.849	6.858	0.000	90	314818	25.0	31.5	
84 Ethylene Dibromide	107	6.932	6.942	0.000	99	313788	25.0	28.4	
87 Chlorobenzene	112	7.284	7.294	0.000	96	925714	25.0	25.9	
88 Ethylbenzene	91	7.336	7.336	0.000	98	1481381	25.0	25.4	
90 m-Xylene & p-Xylene	106	7.429	7.429	0.000	97	624244		26.6	
91 o-Xylene	106	7.750	7.761	0.000	97	607213		24.4	
92 Styrene	104	7.771	7.781	0.000	96	921927	25.0	25.2	
95 Bromoform	173	7.968	7.979	0.000	97	186505	25.0	32.1	
94 Isopropylbenzene	105	8.030	8.030	0.000	95	1553120	25.0	24.0	
97 1,1,2,2-Tetrachloroethane	83	8.341	8.341	0.000	96	385137	25.0	23.8	
111 1,3-Dichlorobenzene	146	9.077	9.077	0.000	99	798694	25.0	23.7	
113 1,4-Dichlorobenzene	146	9.149	9.149	0.000	96	818983	25.0	24.0	
116 1,2-Dichlorobenzene	146	9.460	9.460	0.000	98	800785	25.0	23.9	
117 1,2-Dibromo-3-Chloropropan	75	10.134	10.134	0.000	85	68420	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	10.776	10.776	0.000	95	550195	25.0	22.6	
S 124 Xylenes, Total	1				0			51.0	

Reagents:

8260 CORP mix_00148	Amount Added: 12.50	Units: uL	
GAS CORP mix_00329	Amount Added: 12.50	Units: uL	
C_8260_Surr_00144	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_IS_00129	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973C\20190302-79075.b\C5048.D

Injection Date: 02-Mar-2019 22:49:30

Instrument ID: HP5973C

Operator ID: OI

Lims ID: 480-149618-B-8 MSD

Worklist Smp#: 24

Client ID: LAB-SBW-15

Purge Vol: 5.000 mL

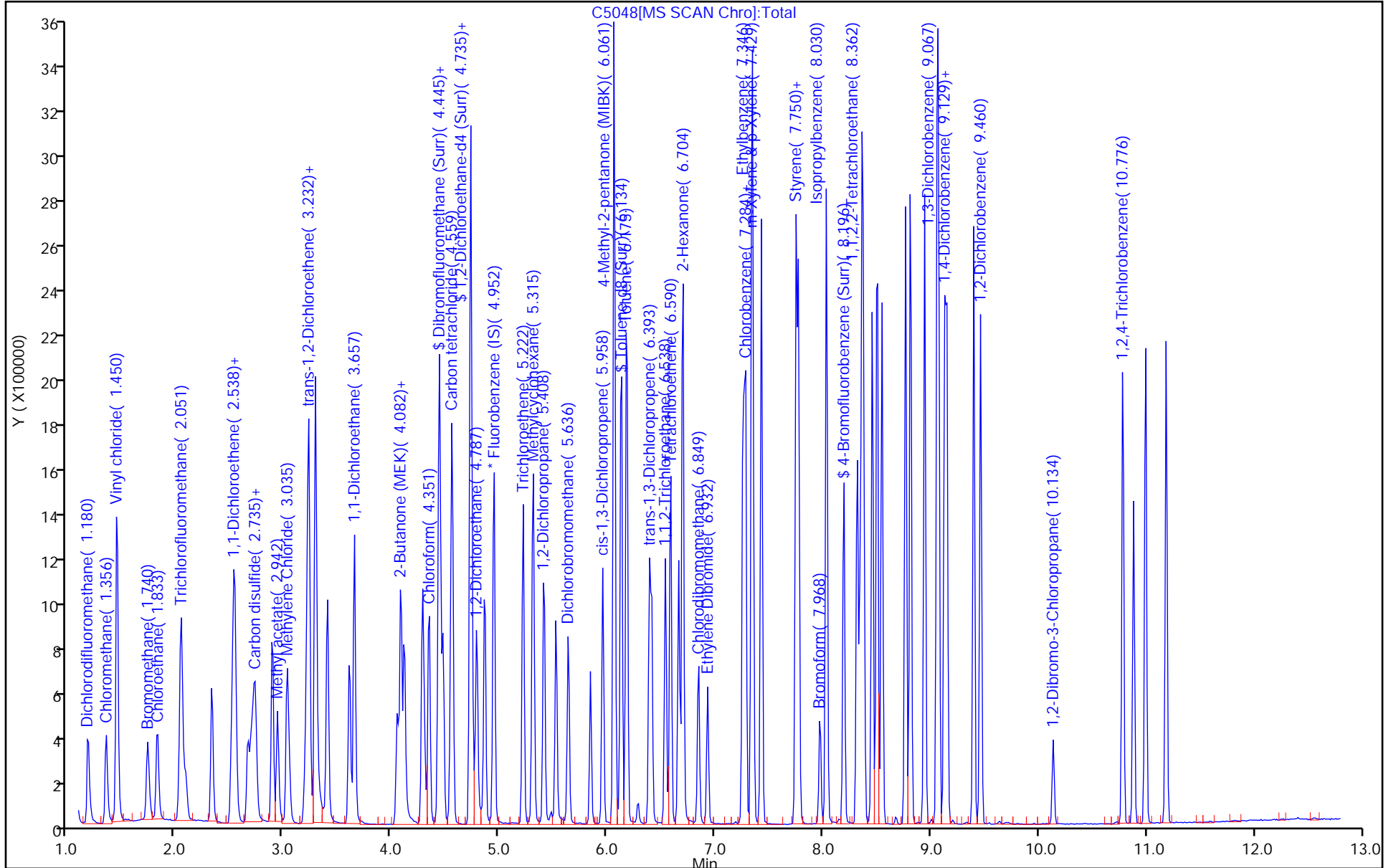
Dil. Factor: 4.0000

ALS Bottle#: 24

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-149618-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 01/09/2019 13:33Analysis Batch Number: 454372End Date: 01/10/2019 00:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-454372/2		01/09/2019 13:33	1	C3449.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/4		01/09/2019 14:30	1	C3451.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/5		01/09/2019 14:57	1	C3452.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/6		01/09/2019 15:23	1	C3453.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/7		01/09/2019 15:50	1	C3454.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/8		01/09/2019 16:17	1	C3455.D	ZB-624 (20) 0.18 (mm)
ICIS 480-454372/9		01/09/2019 16:44	1	C3456.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/10		01/09/2019 17:11	1	C3457.D	ZB-624 (20) 0.18 (mm)
IC 480-454372/11		01/09/2019 17:38	1	C3458.D	ZB-624 (20) 0.18 (mm)
MDLV 480-454372/13		01/09/2019 18:31	1		ZB-624 (20) 0.18 (mm)
MDLV 480-454372/14		01/09/2019 18:57	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/16		01/09/2019 19:51	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/17		01/09/2019 20:18	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/18		01/09/2019 20:45	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/19		01/09/2019 21:12	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/20		01/09/2019 21:39	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/21		01/09/2019 22:06	1		ZB-624 (20) 0.18 (mm)
IC 480-454372/22		01/09/2019 22:33	1		ZB-624 (20) 0.18 (mm)
MDLV 480-454372/24		01/09/2019 23:27	1		ZB-624 (20) 0.18 (mm)
ICV 480-454372/25		01/09/2019 23:54	1		ZB-624 (20) 0.18 (mm)
ICV 480-454372/26		01/10/2019 00:20	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-149618-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 03/01/2019 09:03Analysis Batch Number: 461126End Date: 03/01/2019 20:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-461126/2		03/01/2019 09:03	1	C4975.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-461126/3		03/01/2019 09:33	1	C4976.D	ZB-624 (20) 0.18 (mm)
CCV 480-461126/4		03/01/2019 10:00	1		ZB-624 (20) 0.18 (mm)
LCS 480-461126/5		03/01/2019 10:27	1	C4978.D	ZB-624 (20) 0.18 (mm)
RL 480-461126/7		03/01/2019 11:10	1		ZB-624 (20) 0.18 (mm)
MB 480-461126/9		03/01/2019 12:04	1	C4981.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 12:39	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 13:06	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 13:32	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 13:59	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 14:25	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 14:51	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 15:18	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 15:45	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 16:12	10		ZB-624 (20) 0.18 (mm)
480-149618-3		03/01/2019 16:39	5	C4991.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 17:06	20		ZB-624 (20) 0.18 (mm)
480-149618-5		03/01/2019 17:33	5	C4993.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 17:59	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 18:26	8		ZB-624 (20) 0.18 (mm)
480-149618-6		03/01/2019 18:52	1	C4996.D	ZB-624 (20) 0.18 (mm)
480-149618-9		03/01/2019 19:19	1	C4997.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 19:46	8		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/01/2019 20:12	8		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-149618-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 03/01/2019 20:47Analysis Batch Number: 461282End Date: 03/02/2019 07:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-461282/2		03/01/2019 20:47	1	C5000.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-461282/3		03/01/2019 21:21	1	C5001.D	ZB-624 (20) 0.18 (mm)
CCV 480-461282/4		03/01/2019 21:47	1		ZB-624 (20) 0.18 (mm)
LCS 480-461282/5		03/01/2019 22:24	1	C5003.D	ZB-624 (20) 0.18 (mm)
RL 480-461282/7		03/01/2019 23:18	1		ZB-624 (20) 0.18 (mm)
MB 480-461282/9		03/02/2019 00:12	1	C5007.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 00:47	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 01:14	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 01:41	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 02:08	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 02:34	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 03:01	1		ZB-624 (20) 0.18 (mm)
480-149618-1		03/02/2019 03:27	2	C5014.D	ZB-624 (20) 0.18 (mm)
480-149618-2		03/02/2019 03:54	4	C5015.D	ZB-624 (20) 0.18 (mm)
480-149618-4		03/02/2019 04:21	5	C5016.D	ZB-624 (20) 0.18 (mm)
480-149618-6 DL		03/02/2019 04:48	5	C5017.D	ZB-624 (20) 0.18 (mm)
480-149618-7		03/02/2019 05:15	2	C5018.D	ZB-624 (20) 0.18 (mm)
480-149618-8		03/02/2019 05:42	4	C5019.D	ZB-624 (20) 0.18 (mm)
480-149618-9 DL		03/02/2019 06:08	5	C5020.D	ZB-624 (20) 0.18 (mm)
480-149618-10		03/02/2019 06:35	1	C5021.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 07:28	4		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 07:55	4		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Instrument ID: HP5973C Start Date: 03/02/2019 12:06

Analysis Batch Number: 461298 End Date: 03/03/2019 00:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-461298/2		03/02/2019 12:06	1	C5026.D	ZB-624 (20) 0.18 (mm)
CCV 480-461298/4		03/02/2019 13:00	1		ZB-624 (20) 0.18 (mm)
CCVIS 480-461298/9		03/02/2019 13:43	1	C5029.D	ZB-624 (20) 0.18 (mm)
LCS 480-461298/5		03/02/2019 14:19	1	C5030.D	ZB-624 (20) 0.18 (mm)
RL 480-461298/6		03/02/2019 14:57	1		ZB-624 (20) 0.18 (mm)
MB 480-461298/8		03/02/2019 15:51	1	C5033.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 16:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 17:01	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 17:28	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 17:55	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 18:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 18:48	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 19:15	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 19:42	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 20:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 20:36	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 21:02	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 21:29	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		03/02/2019 21:56	1		ZB-624 (20) 0.18 (mm)
480-149618-8 MS		03/02/2019 22:23	4	C5047.D	ZB-624 (20) 0.18 (mm)
480-149618-8 MSD		03/02/2019 22:49	4	C5048.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		03/03/2019 00:10	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Batch Number: 461126 Batch Start Date: 03/01/19 09:03 Batch Analyst: Carroll, Nicole M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00147	BFB_WRK 00083	C_8260_IS 00129
BFB 480-461126/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-461126/3		8260C		5 mL	5 mL		12.5 uL		1 uL
LCS 480-461126/5		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-461126/9		8260C		5 mL	5 mL				1 uL
480-149618-A-3	ML-2I	8260C	T	5 mL	5 mL	7 SU			1 uL
480-149618-A-5	ML-7D	8260C	T	5 mL	5 mL	3 SU			1 uL
480-149618-A-6	GMX-MW3	8260C	T	5 mL	5 mL	7 SU			1 uL
480-149618-A-9	DUPE	8260C	T	5 mL	5 mL	<2 SU			1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00144	GAS CORP mix 00328	AnalysisComment			
BFB 480-461126/2		8260C							
CCVIS 480-461126/3		8260C		1 uL	12.5 uL				
LCS 480-461126/5		8260C		1 uL	12.5 uL				
MB 480-461126/9		8260C		1 uL					
480-149618-A-3	ML-2I	8260C	T	1 uL		Foam			
480-149618-A-5	ML-7D	8260C	T	1 uL		Targets			
480-149618-A-6	GMX-MW3	8260C	T	1 uL		RA DL			
480-149618-A-9	DUPE	8260C	T	1 uL		RA DL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Batch Number: 461282 Batch Start Date: 03/01/19 20:47 Batch Analyst: Izquierdo, Olivia M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	3_MCP_Add_WRK 00199	8260 CORP mix 00148	ADD CORP mix 00082
BFB 480-461282/2		8260C		1 uL	1 uL				
CCVIS 480-461282/3		8260C		5 mL	5 mL			12.5 uL	
LCS 480-461282/5		8260C		5 mL	5 mL		12.5 uL	12.5 uL	12.5 uL
MB 480-461282/9		8260C		5 mL	5 mL				
480-149618-B-1	ML-2D	8260C	T	5 mL	5 mL	7 SU			
480-149618-B-2	ML-2S	8260C	T	5 mL	5 mL	7 SU			
480-149618-B-4	ML-7I	8260C	T	5 mL	5 mL	7 SU			
480-149618-B-6	GMX-MW3	8260C	T	5 mL	5 mL	6 SU			
480-149618-B-7	LAB-SEW-16	8260C	T	5 mL	5 mL	7 SU			
480-149618-B-8	LAB-SEW-15	8260C	T	5 mL	5 mL	3 SU			
480-149618-B-9	DUPE	8260C	T	5 mL	5 mL	3 SU			
480-149618-A-10	TRIP BLANK	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB_WRK 00083	C_8260_IS 00129	C_8260_Surr 00144	GAS CORP mix 00328		
BFB 480-461282/2		8260C		1 uL					
CCVIS 480-461282/3		8260C			1 uL	1 uL	12.5 uL		
LCS 480-461282/5		8260C			1 uL	1 uL	12.5 uL		
MB 480-461282/9		8260C			1 uL	1 uL			
480-149618-B-1	ML-2D	8260C	T		1 uL	1 uL			
480-149618-B-2	ML-2S	8260C	T		1 uL	1 uL			
480-149618-B-4	ML-7I	8260C	T		1 uL	1 uL			
480-149618-B-6	GMX-MW3	8260C	T		1 uL	1 uL			
480-149618-B-7	LAB-SEW-16	8260C	T		1 uL	1 uL			
480-149618-B-8	LAB-SEW-15	8260C	T		1 uL	1 uL			
480-149618-B-9	DUPE	8260C	T		1 uL	1 uL			
480-149618-A-10	TRIP BLANK	8260C	T		1 uL	1 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Batch Number: 461282 Batch Start Date: 03/01/19 20:47 Batch Analyst: Izquierdo, Olivia M

Batch Method: 8260C Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.: _____

Batch Number: 461298 Batch Start Date: 03/02/19 12:06 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00148	BFB_WRK 00083	C_8260_IS 00129
BFB 480-461298/2		8260C		1 uL	1 uL			1 uL	
LCS 480-461298/5		8260C		5 mL	5 mL		12.5 uL		1 uL
MB 480-461298/8		8260C		5 mL	5 mL				1 uL
CCVIS 480-461298/9		8260C		5 mL	5 mL		12.5 uL		1 uL
480-149618-B-8 MS	LAB-SBW-15	8260C	T	5 mL	5 mL	3 SU	12.5 uL		1 uL
480-149618-B-8 MSD	LAB-SBW-15	8260C	T	5 mL	5 mL	3 SU	12.5 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	C_8260_Surr 00144	GAS CORP mix 00329				
BFB 480-461298/2		8260C							
LCS 480-461298/5		8260C		1 uL	12.5 uL				
MB 480-461298/8		8260C		1 uL					
CCVIS 480-461298/9		8260C		1 uL	12.5 uL				
480-149618-B-8 MS	LAB-SBW-15	8260C	T	1 uL	12.5 uL				
480-149618-B-8 MSD	LAB-SBW-15	8260C	T	1 uL	12.5 uL				


Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record

Client Information		Lab PM: Deyo, Melissa L		Carrier Tracking No(s): 480-126074-28580.1	
Client Contact: Ann Aquilina		E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 2	
Company: LaBella Associates DPC		Due Date Requested:		Job #: 210173 PH 6A	
Address: 300 State Street Suite 201		TAT Requested (days):		Preservation Codes: M - Hexane N - None A - HCL R - NaOH	
City: Rochester		PO #: 210173		 480-149618 Chain of Custody	
State, Zip: NY, 14614		WO #:			
Phone: (585) 454-6110		Project #: 48016058		Other:	
Email: AAquilina@LaBellaPC.com		SSOW#:		Special Instructions/Note:	
Project Name: Former Emerson Street Landfill Project		Site: 1700 Emerson Street - Pilot Test		Total Number of Containers	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastable, BT=tissue, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260C - TCL VOCs + TICS		8260C - TCL VOCs + TICS		Special Instructions/Note
					Yes	No	Yes	No	A	N	A	N	
ML-2D	2/27/19	1335	G	Water									
ML-2S	2/27/19	1250		Water									
ML-2I	2/27/19	1200		Water									
ML-7I	2/26/19	12:15		Water									
ML-7D	2/26/19	1655		Water									
GMX-MW3	2/27/19	11:05		Water									
LAB-SBW-16	2/26/19	15:25		Water									
LAB-SBW-15	2/26/19	11:05		Water									
Dupe	2/26/19	12:15		Water									6 MS/MSD

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) **NYS EQ015 EDD: ASP Cat B**

Empty Kit Relinquished by: _____ Date: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Reinquired by: Steven Rife	AKR	Date/Time: 2/27/2019 1530	Company: LaBella
Reinquired by: Jeffrey Folger	JF	Date/Time: 2/27/2019 1530	Company: LaBella
Reinquired by:		Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Date/Time: 2-27-19 9:55	Company: JAB
Cooler Temperature(s) °C and Other Remarks:		2.7 #1	

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-149618-1

Login Number: 149618
List Number: 1
Creator: Harper, Marcus D

List Source: TestAmerica Buffalo

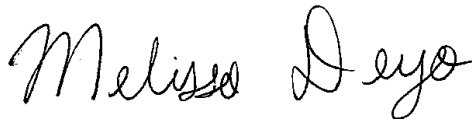
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-126300-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
1/10/2018 2:34 PM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
01/10/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

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**Job Narrative
480-126300-1**

Comments

No additional comments.

Receipt

The samples were received on 10/21/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

Receipt Exceptions

The following samples (-01, -02, -03) were received outside of holding time for Nitrate Series and Ferrous Iron analyses.

All samples for 8260 and RSK analyses were received with headspace.

GC/MS VOA

Method(s) 8260C: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: ML-2S (480-126300-1), ML-2I (480-126300-2), ML-2I (480-126300-2[MS]), ML-2I (480-126300-2[MSD]) and DUPLICATE (480-126300-7).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-384727 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone and Methyl-t-Butyl Ether (MTBE). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: ML-2S (480-126300-1), ML-2I (480-126300-2), ML-2D (480-126300-3) and DUPLICATE (480-126300-7).

Method(s) 8260C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 480-384727 recovered outside control limits for the following analyte(s): Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The following samples are impacted: ML-2S (480-126300-1), ML-2I (480-126300-2), ML-2D (480-126300-3) and DUPLICATE (480-126300-7).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-2S (480-126300-1), ML-2I (480-126300-2), ML-2I (480-126300-2[MS]), ML-2I (480-126300-2[MSD]), ML-2D (480-126300-3) and DUPLICATE (480-126300-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-7I (480-126300-5), ML-7D (480-126300-6), (480-126300-F-5 MS) and (480-126300-F-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: ML-7S (480-126300-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-384962 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone (MIBK) and Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: ML-7S (480-126300-4), ML-7I (480-126300-5), ML-7D (480-126300-6) and TRIP BLANK (480-126300-8).

Method(s) 8260C: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following sample was analyzed after 7 days from sampling: ML-7S (480-126300-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) RSK-175: The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: ML-2S (480-126300-1), ML-2I (480-126300-2), ML-7S (480-126300-4) and ML-7D (480-126300-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: ML-2S (480-126300-1), ML-2I (480-126300-2), ML-2D (480-126300-3), ML-7S (480-126300-4), ML-7I (480-126300-5) and ML-7D (480-126300-6).

Method(s) 353.2: The following samples was received outside of holding time: ML-2S (480-126300-1), ML-2I (480-126300-2) and ML-2D (480-126300-3).

Method(s) 353.2: The following samples was filtered prior to analysis. ML-2S (480-126300-1), ML-2I (480-126300-2) and ML-7S

(480-126300-4)

Method(s) 353.2: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: ML-7I (480-126300-5).

Method(s) 353.2: The following sample was filtered prior to analysis: ML-7I (480-126300-5)

Method(s) 353.2: The following sample was filtered prior to analysis: ML-7I (480-126300-5)

Method(s) 353.2: The following samples was received outside of holding time: ML-2S (480-126300-1), ML-2I (480-126300-2) and ML-2D (480-126300-3).

Method(s) Nitrate by calc: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: ML-2S (480-126300-1), ML-2I (480-126300-2) and ML-2D (480-126300-3).

Method(s) Nitrate by calc: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: ML-7I (480-126300-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-126300-1	ML-2S	Water	10/19/17 08:45	10/21/17 08:45
480-126300-2	ML-2I	Water	10/18/17 12:55	10/21/17 08:45
480-126300-3	ML-2D	Water	10/18/17 15:50	10/21/17 08:45
480-126300-4	ML-7S	Water	10/19/17 12:20	10/21/17 08:45
480-126300-5	ML-7I	Water	10/19/17 14:40	10/21/17 08:45
480-126300-6	ML-7D	Water	10/20/17 10:20	10/21/17 08:45
480-126300-7	DUPLICATE	Water	10/18/17 12:55	10/21/17 08:45
480-126300-8	TRIP BLANK	Water	10/20/17 00:00	10/21/17 08:45

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2S

Lab Sample ID: 480-126300-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	33		10	3.8	ug/L	10		8260C	Total/NA
Acetone	33	J	100	30	ug/L	10		8260C	Total/NA
Benzene	6.0	J	10	4.1	ug/L	10		8260C	Total/NA
Chloroethane	4.6	J	10	3.2	ug/L	10		8260C	Total/NA
Chloroform	4.1	J	10	3.4	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	160		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	490		10	9.0	ug/L	10		8260C	Total/NA
Ethane	110		7.5	1.5	ug/L	1		RSK-175	Total/NA

Client Sample ID: ML-2I

Lab Sample ID: 480-126300-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	480		100	82	ug/L	100		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	650		100	31	ug/L	100		8260C	Total/NA
1,1-Dichloroethane	870		100	38	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	3000		100	81	ug/L	100		8260C	Total/NA
Toluene	170		100	51	ug/L	100		8260C	Total/NA
Trichloroethene	260		100	46	ug/L	100		8260C	Total/NA
Vinyl chloride	990		100	90	ug/L	100		8260C	Total/NA
Ethane	60		7.5	1.5	ug/L	1		RSK-175	Total/NA
Ferrous Iron	0.099	J HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: ML-2D

Lab Sample ID: 480-126300-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	7.0		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3		2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	35		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	1.0	J	2.0	0.58	ug/L	2		8260C	Total/NA
Chloroethane	2.2		2.0	0.64	ug/L	2		8260C	Total/NA
Chloroform	1.1	J	2.0	0.68	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	71		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	0.91	J	2.0	0.72	ug/L	2		8260C	Total/NA
Toluene	1.4	J	2.0	1.0	ug/L	2		8260C	Total/NA
Trichloroethene	11		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	15		2.0	1.8	ug/L	2		8260C	Total/NA
Ethene	9.8		7.0	1.5	ug/L	1		RSK-175	Total/NA

Client Sample ID: ML-7S

Lab Sample ID: 480-126300-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	58	J	100	30	ug/L	10		8260C	Total/NA
Benzene	18		10	4.1	ug/L	10		8260C	Total/NA
Xylenes, Total	8.8	J	20	6.6	ug/L	10		8260C	Total/NA

Client Sample ID: ML-7I

Lab Sample ID: 480-126300-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	110		50	41	ug/L	50		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	380		50	16	ug/L	50		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-7I (Continued)

Lab Sample ID: 480-126300-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	370		50	19	ug/L	50		8260C	Total/NA
Benzene	59		50	21	ug/L	50		8260C	Total/NA
Chloroethane	170		50	16	ug/L	50		8260C	Total/NA
cis-1,2-Dichloroethene	2800		50	41	ug/L	50		8260C	Total/NA
Tetrachloroethene	35	J	50	18	ug/L	50		8260C	Total/NA
Toluene	75		50	26	ug/L	50		8260C	Total/NA
Trichloroethene	140		50	23	ug/L	50		8260C	Total/NA
Vinyl chloride	510		50	45	ug/L	50		8260C	Total/NA
Ethane	110		7.5	1.5	ug/L	1		RSK-175	Total/NA
Nitrate	7.5	H	0.050	0.020	mg/L as N	1		353.2	Total/NA

Client Sample ID: ML-7D

Lab Sample ID: 480-126300-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	250		20	16	ug/L	20		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	190		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	520		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	31		20	5.8	ug/L	20		8260C	Total/NA
Acetone	61	J	200	60	ug/L	20		8260C	Total/NA
Benzene	50		20	8.2	ug/L	20		8260C	Total/NA
Chloroethane	110		20	6.4	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	1000		20	16	ug/L	20		8260C	Total/NA
Tetrachloroethene	12	J	20	7.2	ug/L	20		8260C	Total/NA
Toluene	33		20	10	ug/L	20		8260C	Total/NA
Trichloroethene	100		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	230		20	18	ug/L	20		8260C	Total/NA
Ethane	93		7.5	1.5	ug/L	1		RSK-175	Total/NA
Nitrate	34.1		0.050	0.020	mg/L as N	1		353.2	Total/NA

Client Sample ID: DUPLICATE

Lab Sample ID: 480-126300-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	530		100	82	ug/L	100		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	710		100	31	ug/L	100		8260C	Total/NA
1,1-Dichloroethane	870		100	38	ug/L	100		8260C	Total/NA
1,1-Dichloroethene	39	J	100	29	ug/L	100		8260C	Total/NA
Chloroethane	43	J	100	32	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	3200		100	81	ug/L	100		8260C	Total/NA
Toluene	170		100	51	ug/L	100		8260C	Total/NA
Trichloroethene	280		100	46	ug/L	100		8260C	Total/NA
Vinyl chloride	1000		100	90	ug/L	100		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126300-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
353.2	Nitrate	EPA	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2S
Date Collected: 10/19/17 08:45
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/31/17 17:55	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/31/17 17:55	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/31/17 17:55	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			10/31/17 17:55	10
1,1-Dichloroethane	33		10	3.8	ug/L			10/31/17 17:55	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/31/17 17:55	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			10/31/17 17:55	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			10/31/17 17:55	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			10/31/17 17:55	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/31/17 17:55	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/31/17 17:55	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			10/31/17 17:55	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			10/31/17 17:55	10
2-Butanone (MEK)	ND		100	13	ug/L			10/31/17 17:55	10
2-Hexanone	ND		50	12	ug/L			10/31/17 17:55	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			10/31/17 17:55	10
Acetone	33	J	100	30	ug/L			10/31/17 17:55	10
Benzene	6.0	J	10	4.1	ug/L			10/31/17 17:55	10
Bromodichloromethane	ND		10	3.9	ug/L			10/31/17 17:55	10
Bromoform	ND		10	2.6	ug/L			10/31/17 17:55	10
Bromomethane	ND		10	6.9	ug/L			10/31/17 17:55	10
Carbon disulfide	ND		10	1.9	ug/L			10/31/17 17:55	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/31/17 17:55	10
Chlorobenzene	ND		10	7.5	ug/L			10/31/17 17:55	10
Dibromochloromethane	ND		10	3.2	ug/L			10/31/17 17:55	10
Chloroethane	4.6	J	10	3.2	ug/L			10/31/17 17:55	10
Chloroform	4.1	J	10	3.4	ug/L			10/31/17 17:55	10
Chloromethane	ND		10	3.5	ug/L			10/31/17 17:55	10
cis-1,2-Dichloroethene	160		10	8.1	ug/L			10/31/17 17:55	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/31/17 17:55	10
Cyclohexane	ND		10	1.8	ug/L			10/31/17 17:55	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			10/31/17 17:55	10
Ethylbenzene	ND		10	7.4	ug/L			10/31/17 17:55	10
1,2-Dibromoethane	ND		10	7.3	ug/L			10/31/17 17:55	10
Isopropylbenzene	ND		10	7.9	ug/L			10/31/17 17:55	10
Methyl acetate	ND	*	25	13	ug/L			10/31/17 17:55	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			10/31/17 17:55	10
Methylcyclohexane	ND		10	1.6	ug/L			10/31/17 17:55	10
Methylene Chloride	ND		10	4.4	ug/L			10/31/17 17:55	10
Styrene	ND		10	7.3	ug/L			10/31/17 17:55	10
Tetrachloroethene	ND		10	3.6	ug/L			10/31/17 17:55	10
Toluene	ND		10	5.1	ug/L			10/31/17 17:55	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/31/17 17:55	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/31/17 17:55	10
Trichloroethene	ND		10	4.6	ug/L			10/31/17 17:55	10
Trichlorofluoromethane	ND		10	8.8	ug/L			10/31/17 17:55	10
Vinyl chloride	490		10	9.0	ug/L			10/31/17 17:55	10
Xylenes, Total	ND		20	6.6	ug/L			10/31/17 17:55	10

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2S
Date Collected: 10/19/17 08:45
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	30	T J	ug/L		2.31			10/31/17 17:55	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		10/31/17 17:55	10
1,2-Dichloroethane-d4 (Surr)	90		77 - 120		10/31/17 17:55	10
4-Bromofluorobenzene (Surr)	97		73 - 120		10/31/17 17:55	10
Dibromofluoromethane (Surr)	101		75 - 123		10/31/17 17:55	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	110		7.5	1.5	ug/L			10/26/17 10:55	1
Ethene	ND		7.0	1.5	ug/L			10/26/17 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			10/21/17 11:42	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			10/28/17 12:54	1

Client Sample ID: ML-2I
Date Collected: 10/18/17 12:55
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	480		100	82	ug/L			10/31/17 16:43	100
1,1,1,2-Tetrachloroethane	ND		100	21	ug/L			10/31/17 16:43	100
1,1,2-Trichloroethane	ND		100	23	ug/L			10/31/17 16:43	100
1,1,2-Trichloro-1,2,2-trifluoroethane	650		100	31	ug/L			10/31/17 16:43	100
1,1-Dichloroethane	870		100	38	ug/L			10/31/17 16:43	100
1,1-Dichloroethene	ND		100	29	ug/L			10/31/17 16:43	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			10/31/17 16:43	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			10/31/17 16:43	100
1,2-Dichlorobenzene	ND		100	79	ug/L			10/31/17 16:43	100
1,2-Dichloroethane	ND		100	21	ug/L			10/31/17 16:43	100
1,2-Dichloropropane	ND		100	72	ug/L			10/31/17 16:43	100
1,3-Dichlorobenzene	ND		100	78	ug/L			10/31/17 16:43	100
1,4-Dichlorobenzene	ND		100	84	ug/L			10/31/17 16:43	100
2-Butanone (MEK)	ND		1000	130	ug/L			10/31/17 16:43	100
2-Hexanone	ND		500	120	ug/L			10/31/17 16:43	100
4-Methyl-2-pentanone (MIBK)	ND	F1	500	210	ug/L			10/31/17 16:43	100
Acetone	ND		1000	300	ug/L			10/31/17 16:43	100
Benzene	ND		100	41	ug/L			10/31/17 16:43	100
Bromodichloromethane	ND		100	39	ug/L			10/31/17 16:43	100
Bromoform	ND		100	26	ug/L			10/31/17 16:43	100
Bromomethane	ND		100	69	ug/L			10/31/17 16:43	100
Carbon disulfide	ND		100	19	ug/L			10/31/17 16:43	100
Carbon tetrachloride	ND		100	27	ug/L			10/31/17 16:43	100
Chlorobenzene	ND		100	75	ug/L			10/31/17 16:43	100
Dibromochloromethane	ND		100	32	ug/L			10/31/17 16:43	100
Chloroethane	ND		100	32	ug/L			10/31/17 16:43	100

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2I
Date Collected: 10/18/17 12:55
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		100	34	ug/L			10/31/17 16:43	100
Chloromethane	ND		100	35	ug/L			10/31/17 16:43	100
cis-1,2-Dichloroethene	3000		100	81	ug/L			10/31/17 16:43	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			10/31/17 16:43	100
Cyclohexane	ND		100	18	ug/L			10/31/17 16:43	100
Dichlorodifluoromethane	ND		100	68	ug/L			10/31/17 16:43	100
Ethylbenzene	ND		100	74	ug/L			10/31/17 16:43	100
1,2-Dibromoethane	ND	F1	100	73	ug/L			10/31/17 16:43	100
Isopropylbenzene	ND		100	79	ug/L			10/31/17 16:43	100
Methyl acetate	ND	F1 *	250	130	ug/L			10/31/17 16:43	100
Methyl tert-butyl ether	ND		100	16	ug/L			10/31/17 16:43	100
Methylcyclohexane	ND		100	16	ug/L			10/31/17 16:43	100
Methylene Chloride	ND		100	44	ug/L			10/31/17 16:43	100
Styrene	ND		100	73	ug/L			10/31/17 16:43	100
Tetrachloroethene	ND		100	36	ug/L			10/31/17 16:43	100
Toluene	170		100	51	ug/L			10/31/17 16:43	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			10/31/17 16:43	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			10/31/17 16:43	100
Trichloroethene	260		100	46	ug/L			10/31/17 16:43	100
Trichlorofluoromethane	ND		100	88	ug/L			10/31/17 16:43	100
Vinyl chloride	990		100	90	ug/L			10/31/17 16:43	100
Xylenes, Total	ND		200	66	ug/L			10/31/17 16:43	100

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/31/17 16:43	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		10/31/17 16:43	100
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		10/31/17 16:43	100
4-Bromofluorobenzene (Surr)	95		73 - 120		10/31/17 16:43	100
Dibromofluoromethane (Surr)	108		75 - 123		10/31/17 16:43	100

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	60		7.5	1.5	ug/L			10/26/17 11:13	1
Ethene	ND		7.0	1.5	ug/L			10/26/17 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			10/21/17 11:34	1
Ferrous Iron	0.099	J HF	0.10	0.075	mg/L			10/28/17 12:54	1

Client Sample ID: ML-2D
Date Collected: 10/18/17 15:50
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	7.0		2.0	1.6	ug/L			10/31/17 17:07	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			10/31/17 17:07	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			10/31/17 17:07	2

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2D
Date Collected: 10/18/17 15:50
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3		2.0	0.62	ug/L			10/31/17 17:07	2
1,1-Dichloroethane	35		2.0	0.76	ug/L			10/31/17 17:07	2
1,1-Dichloroethene	1.0	J	2.0	0.58	ug/L			10/31/17 17:07	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			10/31/17 17:07	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			10/31/17 17:07	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			10/31/17 17:07	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			10/31/17 17:07	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			10/31/17 17:07	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			10/31/17 17:07	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			10/31/17 17:07	2
2-Butanone (MEK)	ND		20	2.6	ug/L			10/31/17 17:07	2
2-Hexanone	ND		10	2.5	ug/L			10/31/17 17:07	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			10/31/17 17:07	2
Acetone	ND		20	6.0	ug/L			10/31/17 17:07	2
Benzene	ND		2.0	0.82	ug/L			10/31/17 17:07	2
Bromodichloromethane	ND		2.0	0.78	ug/L			10/31/17 17:07	2
Bromoform	ND		2.0	0.52	ug/L			10/31/17 17:07	2
Bromomethane	ND		2.0	1.4	ug/L			10/31/17 17:07	2
Carbon disulfide	ND		2.0	0.38	ug/L			10/31/17 17:07	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			10/31/17 17:07	2
Chlorobenzene	ND		2.0	1.5	ug/L			10/31/17 17:07	2
Dibromochloromethane	ND		2.0	0.64	ug/L			10/31/17 17:07	2
Chloroethane	2.2		2.0	0.64	ug/L			10/31/17 17:07	2
Chloroform	1.1	J	2.0	0.68	ug/L			10/31/17 17:07	2
Chloromethane	ND		2.0	0.70	ug/L			10/31/17 17:07	2
cis-1,2-Dichloroethene	71		2.0	1.6	ug/L			10/31/17 17:07	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			10/31/17 17:07	2
Cyclohexane	ND		2.0	0.36	ug/L			10/31/17 17:07	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			10/31/17 17:07	2
Ethylbenzene	ND		2.0	1.5	ug/L			10/31/17 17:07	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			10/31/17 17:07	2
Isopropylbenzene	ND		2.0	1.6	ug/L			10/31/17 17:07	2
Methyl acetate	ND	*	5.0	2.6	ug/L			10/31/17 17:07	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			10/31/17 17:07	2
Methylcyclohexane	ND		2.0	0.32	ug/L			10/31/17 17:07	2
Methylene Chloride	ND		2.0	0.88	ug/L			10/31/17 17:07	2
Styrene	ND		2.0	1.5	ug/L			10/31/17 17:07	2
Tetrachloroethene	0.91	J	2.0	0.72	ug/L			10/31/17 17:07	2
Toluene	1.4	J	2.0	1.0	ug/L			10/31/17 17:07	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			10/31/17 17:07	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			10/31/17 17:07	2
Trichloroethene	11		2.0	0.92	ug/L			10/31/17 17:07	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			10/31/17 17:07	2
Vinyl chloride	15		2.0	1.8	ug/L			10/31/17 17:07	2
Xylenes, Total	ND		4.0	1.3	ug/L			10/31/17 17:07	2

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>10/31/17 17:07</i>	<i>2</i>

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2D
Date Collected: 10/18/17 15:50
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		10/31/17 17:07	2
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		10/31/17 17:07	2
4-Bromofluorobenzene (Surr)	95		73 - 120		10/31/17 17:07	2
Dibromofluoromethane (Surr)	109		75 - 123		10/31/17 17:07	2

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/26/17 11:30	1
Ethene	9.8		7.0	1.5	ug/L			10/26/17 11:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			10/21/17 11:44	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			10/28/17 12:54	1

Client Sample ID: ML-7S
Date Collected: 10/19/17 12:20
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			11/01/17 14:22	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			11/01/17 14:22	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			11/01/17 14:22	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			11/01/17 14:22	10
1,1-Dichloroethane	ND		10	3.8	ug/L			11/01/17 14:22	10
1,1-Dichloroethene	ND		10	2.9	ug/L			11/01/17 14:22	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			11/01/17 14:22	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			11/01/17 14:22	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			11/01/17 14:22	10
1,2-Dichloroethane	ND		10	2.1	ug/L			11/01/17 14:22	10
1,2-Dichloropropane	ND		10	7.2	ug/L			11/01/17 14:22	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			11/01/17 14:22	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			11/01/17 14:22	10
2-Butanone (MEK)	ND		100	13	ug/L			11/01/17 14:22	10
2-Hexanone	ND		50	12	ug/L			11/01/17 14:22	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			11/01/17 14:22	10
Acetone	58 J		100	30	ug/L			11/01/17 14:22	10
Benzene	18		10	4.1	ug/L			11/01/17 14:22	10
Bromodichloromethane	ND		10	3.9	ug/L			11/01/17 14:22	10
Bromoform	ND		10	2.6	ug/L			11/01/17 14:22	10
Bromomethane	ND		10	6.9	ug/L			11/01/17 14:22	10
Carbon disulfide	ND		10	1.9	ug/L			11/01/17 14:22	10
Carbon tetrachloride	ND		10	2.7	ug/L			11/01/17 14:22	10
Chlorobenzene	ND		10	7.5	ug/L			11/01/17 14:22	10
Dibromochloromethane	ND		10	3.2	ug/L			11/01/17 14:22	10
Chloroethane	ND		10	3.2	ug/L			11/01/17 14:22	10
Chloroform	ND		10	3.4	ug/L			11/01/17 14:22	10
Chloromethane	ND		10	3.5	ug/L			11/01/17 14:22	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			11/01/17 14:22	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			11/01/17 14:22	10

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-7S

Lab Sample ID: 480-126300-4

Date Collected: 10/19/17 12:20

Matrix: Water

Date Received: 10/21/17 08:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		10	1.8	ug/L			11/01/17 14:22	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			11/01/17 14:22	10
Ethylbenzene	ND		10	7.4	ug/L			11/01/17 14:22	10
1,2-Dibromoethane	ND		10	7.3	ug/L			11/01/17 14:22	10
Isopropylbenzene	ND		10	7.9	ug/L			11/01/17 14:22	10
Methyl acetate	ND		25	13	ug/L			11/01/17 14:22	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			11/01/17 14:22	10
Methylcyclohexane	ND		10	1.6	ug/L			11/01/17 14:22	10
Methylene Chloride	ND		10	4.4	ug/L			11/01/17 14:22	10
Styrene	ND		10	7.3	ug/L			11/01/17 14:22	10
Tetrachloroethene	ND		10	3.6	ug/L			11/01/17 14:22	10
Toluene	ND		10	5.1	ug/L			11/01/17 14:22	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			11/01/17 14:22	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			11/01/17 14:22	10
Trichloroethene	ND		10	4.6	ug/L			11/01/17 14:22	10
Trichlorofluoromethane	ND		10	8.8	ug/L			11/01/17 14:22	10
Vinyl chloride	ND		10	9.0	ug/L			11/01/17 14:22	10
Xylenes, Total	8.8	J	20	6.6	ug/L			11/01/17 14:22	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	64	T J	ug/L		2.31			11/01/17 14:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		11/01/17 14:22	10
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		11/01/17 14:22	10
4-Bromofluorobenzene (Surr)	95		73 - 120		11/01/17 14:22	10
Dibromofluoromethane (Surr)	112		75 - 123		11/01/17 14:22	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/26/17 11:48	1
Ethene	ND		7.0	1.5	ug/L			10/26/17 11:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.050	0.020	mg/L as N			10/21/17 11:30	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			10/28/17 12:54	1

Client Sample ID: ML-7I

Lab Sample ID: 480-126300-5

Date Collected: 10/19/17 14:40

Matrix: Water

Date Received: 10/21/17 08:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	110		50	41	ug/L			11/01/17 14:46	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			11/01/17 14:46	50
1,1,2-Trichloroethane	ND		50	12	ug/L			11/01/17 14:46	50
1,1,2-Trichloro-1,2,2-trifluoroethane	380		50	16	ug/L			11/01/17 14:46	50
1,1-Dichloroethane	370		50	19	ug/L			11/01/17 14:46	50
1,1-Dichloroethene	ND		50	15	ug/L			11/01/17 14:46	50

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-71
Date Collected: 10/19/17 14:40
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		50	21	ug/L			11/01/17 14:46	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			11/01/17 14:46	50
1,2-Dichlorobenzene	ND		50	40	ug/L			11/01/17 14:46	50
1,2-Dichloroethane	ND		50	11	ug/L			11/01/17 14:46	50
1,2-Dichloropropane	ND		50	36	ug/L			11/01/17 14:46	50
1,3-Dichlorobenzene	ND		50	39	ug/L			11/01/17 14:46	50
1,4-Dichlorobenzene	ND		50	42	ug/L			11/01/17 14:46	50
2-Butanone (MEK)	ND		500	66	ug/L			11/01/17 14:46	50
2-Hexanone	ND		250	62	ug/L			11/01/17 14:46	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			11/01/17 14:46	50
Acetone	ND		500	150	ug/L			11/01/17 14:46	50
Benzene	59		50	21	ug/L			11/01/17 14:46	50
Bromodichloromethane	ND		50	20	ug/L			11/01/17 14:46	50
Bromoform	ND	F1	50	13	ug/L			11/01/17 14:46	50
Bromomethane	ND		50	35	ug/L			11/01/17 14:46	50
Carbon disulfide	ND		50	9.5	ug/L			11/01/17 14:46	50
Carbon tetrachloride	ND	F1	50	14	ug/L			11/01/17 14:46	50
Chlorobenzene	ND		50	38	ug/L			11/01/17 14:46	50
Dibromochloromethane	ND	F1	50	16	ug/L			11/01/17 14:46	50
Chloroethane	170		50	16	ug/L			11/01/17 14:46	50
Chloroform	ND		50	17	ug/L			11/01/17 14:46	50
Chloromethane	ND		50	18	ug/L			11/01/17 14:46	50
cis-1,2-Dichloroethene	2800		50	41	ug/L			11/01/17 14:46	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			11/01/17 14:46	50
Cyclohexane	ND		50	9.0	ug/L			11/01/17 14:46	50
Dichlorodifluoromethane	ND		50	34	ug/L			11/01/17 14:46	50
Ethylbenzene	ND		50	37	ug/L			11/01/17 14:46	50
1,2-Dibromoethane	ND		50	37	ug/L			11/01/17 14:46	50
Isopropylbenzene	ND		50	40	ug/L			11/01/17 14:46	50
Methyl acetate	ND		130	65	ug/L			11/01/17 14:46	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			11/01/17 14:46	50
Methylcyclohexane	ND		50	8.0	ug/L			11/01/17 14:46	50
Methylene Chloride	ND		50	22	ug/L			11/01/17 14:46	50
Styrene	ND		50	37	ug/L			11/01/17 14:46	50
Tetrachloroethene	35	J	50	18	ug/L			11/01/17 14:46	50
Toluene	75		50	26	ug/L			11/01/17 14:46	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			11/01/17 14:46	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			11/01/17 14:46	50
Trichloroethene	140		50	23	ug/L			11/01/17 14:46	50
Trichlorofluoromethane	ND		50	44	ug/L			11/01/17 14:46	50
Vinyl chloride	510		50	45	ug/L			11/01/17 14:46	50
Xylenes, Total	ND		100	33	ug/L			11/01/17 14:46	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					11/01/17 14:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		11/01/17 14:46	50
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		11/01/17 14:46	50
4-Bromofluorobenzene (Surr)	97		73 - 120		11/01/17 14:46	50

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-7I
Date Collected: 10/19/17 14:40
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		75 - 123		11/01/17 14:46	50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	110		7.5	1.5	ug/L			10/26/17 12:05	1
Ethene	ND		7.0	1.5	ug/L			10/26/17 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	7.5	H	0.050	0.020	mg/L as N			10/21/17 14:42	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			10/28/17 12:54	1

Client Sample ID: ML-7D
Date Collected: 10/20/17 10:20
Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	250		20	16	ug/L			11/01/17 15:10	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			11/01/17 15:10	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			11/01/17 15:10	20
1,1,2-Trichloro-1,2,2-trifluoroethane	190		20	6.2	ug/L			11/01/17 15:10	20
1,1-Dichloroethane	520		20	7.6	ug/L			11/01/17 15:10	20
1,1-Dichloroethene	31		20	5.8	ug/L			11/01/17 15:10	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			11/01/17 15:10	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			11/01/17 15:10	20
1,2-Dichlorobenzene	ND		20	16	ug/L			11/01/17 15:10	20
1,2-Dichloroethane	ND		20	4.2	ug/L			11/01/17 15:10	20
1,2-Dichloropropane	ND		20	14	ug/L			11/01/17 15:10	20
1,3-Dichlorobenzene	ND		20	16	ug/L			11/01/17 15:10	20
1,4-Dichlorobenzene	ND		20	17	ug/L			11/01/17 15:10	20
2-Butanone (MEK)	ND		200	26	ug/L			11/01/17 15:10	20
2-Hexanone	ND		100	25	ug/L			11/01/17 15:10	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			11/01/17 15:10	20
Acetone	61	J	200	60	ug/L			11/01/17 15:10	20
Benzene	50		20	8.2	ug/L			11/01/17 15:10	20
Bromodichloromethane	ND		20	7.8	ug/L			11/01/17 15:10	20
Bromoform	ND		20	5.2	ug/L			11/01/17 15:10	20
Bromomethane	ND		20	14	ug/L			11/01/17 15:10	20
Carbon disulfide	ND		20	3.8	ug/L			11/01/17 15:10	20
Carbon tetrachloride	ND		20	5.4	ug/L			11/01/17 15:10	20
Chlorobenzene	ND		20	15	ug/L			11/01/17 15:10	20
Dibromochloromethane	ND		20	6.4	ug/L			11/01/17 15:10	20
Chloroethane	110		20	6.4	ug/L			11/01/17 15:10	20
Chloroform	ND		20	6.8	ug/L			11/01/17 15:10	20
Chloromethane	ND		20	7.0	ug/L			11/01/17 15:10	20
cis-1,2-Dichloroethene	1000		20	16	ug/L			11/01/17 15:10	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			11/01/17 15:10	20
Cyclohexane	ND		20	3.6	ug/L			11/01/17 15:10	20

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-7D

Lab Sample ID: 480-126300-6

Date Collected: 10/20/17 10:20

Matrix: Water

Date Received: 10/21/17 08:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		20	14	ug/L			11/01/17 15:10	20
Ethylbenzene	ND		20	15	ug/L			11/01/17 15:10	20
1,2-Dibromoethane	ND		20	15	ug/L			11/01/17 15:10	20
Isopropylbenzene	ND		20	16	ug/L			11/01/17 15:10	20
Methyl acetate	ND		50	26	ug/L			11/01/17 15:10	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			11/01/17 15:10	20
Methylcyclohexane	ND		20	3.2	ug/L			11/01/17 15:10	20
Methylene Chloride	ND		20	8.8	ug/L			11/01/17 15:10	20
Styrene	ND		20	15	ug/L			11/01/17 15:10	20
Tetrachloroethene	12	J	20	7.2	ug/L			11/01/17 15:10	20
Toluene	33		20	10	ug/L			11/01/17 15:10	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			11/01/17 15:10	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			11/01/17 15:10	20
Trichloroethene	100		20	9.2	ug/L			11/01/17 15:10	20
Trichlorofluoromethane	ND		20	18	ug/L			11/01/17 15:10	20
Vinyl chloride	230		20	18	ug/L			11/01/17 15:10	20
Xylenes, Total	ND		40	13	ug/L			11/01/17 15:10	20

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					11/01/17 15:10	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		11/01/17 15:10	20
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		11/01/17 15:10	20
4-Bromofluorobenzene (Surr)	90		73 - 120		11/01/17 15:10	20
Dibromofluoromethane (Surr)	110		75 - 123		11/01/17 15:10	20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	93		7.5	1.5	ug/L			10/26/17 12:23	1
Ethene	ND		7.0	1.5	ug/L			10/26/17 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	34.1		0.050	0.020	mg/L as N			10/21/17 14:43	1
Ferrous Iron	ND	HF	0.10	0.075	mg/L			10/28/17 12:54	1

Client Sample ID: DUPLICATE

Lab Sample ID: 480-126300-7

Date Collected: 10/18/17 12:55

Matrix: Water

Date Received: 10/21/17 08:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	530		100	82	ug/L			10/31/17 17:31	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			10/31/17 17:31	100
1,1,2-Trichloroethane	ND		100	23	ug/L			10/31/17 17:31	100
1,1,2-Trichloro-1,2,2-trifluoroethane	710		100	31	ug/L			10/31/17 17:31	100
1,1-Dichloroethane	870		100	38	ug/L			10/31/17 17:31	100
1,1-Dichloroethene	39	J	100	29	ug/L			10/31/17 17:31	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			10/31/17 17:31	100

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: DUPLICATE

Lab Sample ID: 480-126300-7

Date Collected: 10/18/17 12:55

Matrix: Water

Date Received: 10/21/17 08:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			10/31/17 17:31	100
1,2-Dichlorobenzene	ND		100	79	ug/L			10/31/17 17:31	100
1,2-Dichloroethane	ND		100	21	ug/L			10/31/17 17:31	100
1,2-Dichloropropane	ND		100	72	ug/L			10/31/17 17:31	100
1,3-Dichlorobenzene	ND		100	78	ug/L			10/31/17 17:31	100
1,4-Dichlorobenzene	ND		100	84	ug/L			10/31/17 17:31	100
2-Butanone (MEK)	ND		1000	130	ug/L			10/31/17 17:31	100
2-Hexanone	ND		500	120	ug/L			10/31/17 17:31	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			10/31/17 17:31	100
Acetone	ND		1000	300	ug/L			10/31/17 17:31	100
Benzene	ND		100	41	ug/L			10/31/17 17:31	100
Bromodichloromethane	ND		100	39	ug/L			10/31/17 17:31	100
Bromoform	ND		100	26	ug/L			10/31/17 17:31	100
Bromomethane	ND		100	69	ug/L			10/31/17 17:31	100
Carbon disulfide	ND		100	19	ug/L			10/31/17 17:31	100
Carbon tetrachloride	ND		100	27	ug/L			10/31/17 17:31	100
Chlorobenzene	ND		100	75	ug/L			10/31/17 17:31	100
Dibromochloromethane	ND		100	32	ug/L			10/31/17 17:31	100
Chloroethane	43	J	100	32	ug/L			10/31/17 17:31	100
Chloroform	ND		100	34	ug/L			10/31/17 17:31	100
Chloromethane	ND		100	35	ug/L			10/31/17 17:31	100
cis-1,2-Dichloroethene	3200		100	81	ug/L			10/31/17 17:31	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			10/31/17 17:31	100
Cyclohexane	ND		100	18	ug/L			10/31/17 17:31	100
Dichlorodifluoromethane	ND		100	68	ug/L			10/31/17 17:31	100
Ethylbenzene	ND		100	74	ug/L			10/31/17 17:31	100
1,2-Dibromoethane	ND		100	73	ug/L			10/31/17 17:31	100
Isopropylbenzene	ND		100	79	ug/L			10/31/17 17:31	100
Methyl acetate	ND *		250	130	ug/L			10/31/17 17:31	100
Methyl tert-butyl ether	ND		100	16	ug/L			10/31/17 17:31	100
Methylcyclohexane	ND		100	16	ug/L			10/31/17 17:31	100
Methylene Chloride	ND		100	44	ug/L			10/31/17 17:31	100
Styrene	ND		100	73	ug/L			10/31/17 17:31	100
Tetrachloroethene	ND		100	36	ug/L			10/31/17 17:31	100
Toluene	170		100	51	ug/L			10/31/17 17:31	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			10/31/17 17:31	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			10/31/17 17:31	100
Trichloroethene	280		100	46	ug/L			10/31/17 17:31	100
Trichlorofluoromethane	ND		100	88	ug/L			10/31/17 17:31	100
Vinyl chloride	1000		100	90	ug/L			10/31/17 17:31	100
Xylenes, Total	ND		200	66	ug/L			10/31/17 17:31	100

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/31/17 17:31	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		10/31/17 17:31	100
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		10/31/17 17:31	100
4-Bromofluorobenzene (Surr)	91		73 - 120		10/31/17 17:31	100
Dibromofluoromethane (Surr)	102		75 - 123		10/31/17 17:31	100

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126300-8

Date Collected: 10/20/17 00:00

Matrix: Water

Date Received: 10/21/17 08:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/01/17 15:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/01/17 15:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/01/17 15:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/01/17 15:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/01/17 15:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/01/17 15:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/01/17 15:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/01/17 15:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/01/17 15:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/01/17 15:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/01/17 15:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/01/17 15:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/01/17 15:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/01/17 15:34	1
2-Hexanone	ND		5.0	1.2	ug/L			11/01/17 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/01/17 15:34	1
Acetone	ND		10	3.0	ug/L			11/01/17 15:34	1
Benzene	ND		1.0	0.41	ug/L			11/01/17 15:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/01/17 15:34	1
Bromoform	ND		1.0	0.26	ug/L			11/01/17 15:34	1
Bromomethane	ND		1.0	0.69	ug/L			11/01/17 15:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/01/17 15:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/01/17 15:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/01/17 15:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/01/17 15:34	1
Chloroethane	ND		1.0	0.32	ug/L			11/01/17 15:34	1
Chloroform	ND		1.0	0.34	ug/L			11/01/17 15:34	1
Chloromethane	ND		1.0	0.35	ug/L			11/01/17 15:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/01/17 15:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/01/17 15:34	1
Cyclohexane	ND		1.0	0.18	ug/L			11/01/17 15:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/01/17 15:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/01/17 15:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/01/17 15:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/01/17 15:34	1
Methyl acetate	ND		2.5	1.3	ug/L			11/01/17 15:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/01/17 15:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/01/17 15:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/01/17 15:34	1
Styrene	ND		1.0	0.73	ug/L			11/01/17 15:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/01/17 15:34	1
Toluene	ND		1.0	0.51	ug/L			11/01/17 15:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/01/17 15:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/01/17 15:34	1
Trichloroethene	ND		1.0	0.46	ug/L			11/01/17 15:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/01/17 15:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/01/17 15:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/01/17 15:34	1

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-126300-8

Date Collected: 10/20/17 00:00

Matrix: Water

Date Received: 10/21/17 08:45

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>11/01/17 15:34</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>94</i>		<i>80 - 120</i>					<i>11/01/17 15:34</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>106</i>		<i>77 - 120</i>					<i>11/01/17 15:34</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>93</i>		<i>73 - 120</i>					<i>11/01/17 15:34</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>114</i>		<i>75 - 123</i>					<i>11/01/17 15:34</i>	<i>1</i>

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-126300-1	ML-2S	97	90	97	101
480-126300-2	ML-2I	99	94	95	108
480-126300-2 MS	ML-2I	94	92	94	107
480-126300-2 MSD	ML-2I	94	93	92	104
480-126300-3	ML-2D	95	98	95	109
480-126300-4	ML-7S	94	104	95	112
480-126300-5	ML-7I	95	108	97	117
480-126300-5 MS	ML-7I	97	104	99	112
480-126300-5 MSD	ML-7I	97	102	96	113
480-126300-6	ML-7D	96	101	90	110
480-126300-7	DUPLICATE	94	89	91	102
480-126300-8	TRIP BLANK	94	106	93	114
LCS 480-384727/4	Lab Control Sample	99	88	93	101
LCS 480-384962/5	Lab Control Sample	97	102	94	111
MB 480-384727/7	Method Blank	97	94	98	105
MB 480-384962/7	Method Blank	99	99	99	105

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-384727/7

Matrix: Water

Analysis Batch: 384727

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/31/17 10:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/31/17 10:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/31/17 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/31/17 10:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/31/17 10:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/31/17 10:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/31/17 10:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/31/17 10:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/31/17 10:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/31/17 10:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/31/17 10:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/31/17 10:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/31/17 10:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/31/17 10:35	1
2-Hexanone	ND		5.0	1.2	ug/L			10/31/17 10:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/31/17 10:35	1
Acetone	ND		10	3.0	ug/L			10/31/17 10:35	1
Benzene	ND		1.0	0.41	ug/L			10/31/17 10:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/31/17 10:35	1
Bromoform	ND		1.0	0.26	ug/L			10/31/17 10:35	1
Bromomethane	ND		1.0	0.69	ug/L			10/31/17 10:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/31/17 10:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/31/17 10:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/31/17 10:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/31/17 10:35	1
Chloroethane	ND		1.0	0.32	ug/L			10/31/17 10:35	1
Chloroform	ND		1.0	0.34	ug/L			10/31/17 10:35	1
Chloromethane	ND		1.0	0.35	ug/L			10/31/17 10:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/31/17 10:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/31/17 10:35	1
Cyclohexane	ND		1.0	0.18	ug/L			10/31/17 10:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/31/17 10:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/31/17 10:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/31/17 10:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/31/17 10:35	1
Methyl acetate	ND		2.5	1.3	ug/L			10/31/17 10:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/31/17 10:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/31/17 10:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/31/17 10:35	1
Styrene	ND		1.0	0.73	ug/L			10/31/17 10:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/31/17 10:35	1
Toluene	ND		1.0	0.51	ug/L			10/31/17 10:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/31/17 10:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/31/17 10:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/31/17 10:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/31/17 10:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/31/17 10:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/31/17 10:35	1

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>		<i>None</i>	<i>ug/L</i>					<i>10/31/17 10:35</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>97</i>		<i>80 - 120</i>		<i>10/31/17 10:35</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>94</i>		<i>77 - 120</i>		<i>10/31/17 10:35</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>98</i>		<i>73 - 120</i>		<i>10/31/17 10:35</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>105</i>		<i>75 - 123</i>		<i>10/31/17 10:35</i>	<i>1</i>

Lab Sample ID: LCS 480-384727/4
Matrix: Water
Analysis Batch: 384727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.9		ug/L		83	76 - 120
1,1,2-Trichloroethane	25.0	22.1		ug/L		88	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		102	61 - 148
1,1-Dichloroethane	25.0	24.1		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.5		ug/L		78	56 - 134
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	20.6		ug/L		82	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 120
2-Butanone (MEK)	125	106		ug/L		85	57 - 140
2-Hexanone	125	104		ug/L		83	65 - 127
4-Methyl-2-pentanone (MIBK)	125	94.9		ug/L		76	71 - 125
Acetone	125	132		ug/L		105	56 - 142
Benzene	25.0	24.8		ug/L		99	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Bromoform	25.0	30.8		ug/L		123	61 - 132
Bromomethane	25.0	23.6		ug/L		94	55 - 144
Carbon disulfide	25.0	23.7		ug/L		95	59 - 134
Carbon tetrachloride	25.0	30.2		ug/L		121	72 - 134
Chlorobenzene	25.0	25.3		ug/L		101	80 - 120
Dibromochloromethane	25.0	29.4		ug/L		118	75 - 125
Chloroethane	25.0	23.9		ug/L		95	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	21.7		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	24.4		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124
Cyclohexane	25.0	24.1		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	22.5		ug/L		90	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	22.0		ug/L		88	77 - 120
Isopropylbenzene	25.0	25.4		ug/L		102	77 - 122
Methyl acetate	50.0	34.7	*	ug/L		69	74 - 133
Methyl tert-butyl ether	25.0	20.4		ug/L		81	77 - 120
Methylcyclohexane	25.0	25.1		ug/L		100	68 - 134
Methylene Chloride	25.0	21.3		ug/L		85	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-384727/4

Matrix: Water

Analysis Batch: 384727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	25.8		ug/L		103	80 - 120
Tetrachloroethene	25.0	25.8		ug/L		103	74 - 122
Toluene	25.0	24.6		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	22.9		ug/L		91	80 - 120
Trichloroethene	25.0	24.9		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	24.2		ug/L		97	62 - 150
Vinyl chloride	25.0	21.1		ug/L		84	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	88		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: 480-126300-2 MS

Matrix: Water

Analysis Batch: 384727

Client Sample ID: ML-2I

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	480		2500	2990		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	ND		2500	1910		ug/L		76	76 - 120
1,1,2-Trichloroethane	ND		2500	1940		ug/L		78	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	650		2500	2950		ug/L		92	61 - 148
1,1-Dichloroethane	870		2500	3250		ug/L		95	77 - 120
1,1-Dichloroethene	ND		2500	2240		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	ND		2500	2100		ug/L		84	79 - 122
1,2-Dibromo-3-Chloropropane	ND		2500	1710		ug/L		68	56 - 134
1,2-Dichlorobenzene	ND		2500	2060		ug/L		82	80 - 124
1,2-Dichloroethane	ND		2500	2010		ug/L		80	75 - 120
1,2-Dichloropropane	ND		2500	2280		ug/L		91	76 - 120
1,3-Dichlorobenzene	ND		2500	2140		ug/L		85	77 - 120
1,4-Dichlorobenzene	ND		2500	2220		ug/L		89	78 - 124
2-Butanone (MEK)	ND		12500	9600		ug/L		77	57 - 140
2-Hexanone	ND		12500	9110		ug/L		73	65 - 127
4-Methyl-2-pentanone (MIBK)	ND	F1	12500	8620	F1	ug/L		69	71 - 125
Acetone	ND		12500	10800		ug/L		86	56 - 142
Benzene	ND		2500	2360		ug/L		94	71 - 124
Bromodichloromethane	ND		2500	2560		ug/L		102	80 - 122
Bromoform	ND		2500	2740		ug/L		109	61 - 132
Bromomethane	ND		2500	2400		ug/L		96	55 - 144
Carbon disulfide	ND		2500	2180		ug/L		87	59 - 134
Carbon tetrachloride	ND		2500	2740		ug/L		109	72 - 134
Chlorobenzene	ND		2500	2170		ug/L		87	80 - 120
Dibromochloromethane	ND		2500	2520		ug/L		101	75 - 125
Chloroethane	ND		2500	2480		ug/L		99	69 - 136
Chloroform	ND		2500	2390		ug/L		96	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-126300-2 MS

Matrix: Water

Analysis Batch: 384727

Client Sample ID: ML-2I

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloromethane	ND		2500	2200		ug/L		88	68 - 124	
cis-1,2-Dichloroethene	3000		2500	5630		ug/L		105	74 - 124	
cis-1,3-Dichloropropene	ND		2500	2300		ug/L		92	74 - 124	
Cyclohexane	ND		2500	2090		ug/L		84	59 - 135	
Dichlorodifluoromethane	ND		2500	2030		ug/L		81	59 - 135	
Ethylbenzene	ND		2500	2170		ug/L		87	77 - 123	
1,2-Dibromoethane	ND	F1	2500	1910	F1	ug/L		76	77 - 120	
Isopropylbenzene	ND		2500	2170		ug/L		87	77 - 122	
Methyl acetate	ND	F1 *	5000	3400	F1	ug/L		68	74 - 133	
Methyl tert-butyl ether	ND		2500	1970		ug/L		79	77 - 120	
Methylcyclohexane	ND		2500	2120		ug/L		85	68 - 134	
Methylene Chloride	ND		2500	2150		ug/L		86	75 - 124	
Styrene	ND		2500	2240		ug/L		89	80 - 120	
Tetrachloroethene	ND		2500	2250		ug/L		90	74 - 122	
Toluene	170		2500	2400		ug/L		89	80 - 122	
trans-1,2-Dichloroethene	ND		2500	2340		ug/L		94	73 - 127	
trans-1,3-Dichloropropene	ND		2500	2110		ug/L		84	80 - 120	
Trichloroethene	260		2500	2710		ug/L		98	74 - 123	
Trichlorofluoromethane	ND		2500	2310		ug/L		93	62 - 150	
Vinyl chloride	990		2500	3160		ug/L		87	65 - 133	
MS MS										
Surrogate	%Recovery		Qualifier	Limits						
Toluene-d8 (Surr)	94			80 - 120						
1,2-Dichloroethane-d4 (Surr)	92			77 - 120						
4-Bromofluorobenzene (Surr)	94			73 - 120						
Dibromofluoromethane (Surr)	107			75 - 123						

Lab Sample ID: 480-126300-2 MSD

Matrix: Water

Analysis Batch: 384727

Client Sample ID: ML-2I

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1,1-Trichloroethane	480		2500	3050		ug/L		103	73 - 126		2	15
1,1,2,2-Tetrachloroethane	ND		2500	2100		ug/L		84	76 - 120		9	15
1,1,2-Trichloroethane	ND		2500	2000		ug/L		80	76 - 122		3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	650		2500	3040		ug/L		95	61 - 148		3	20
1,1-Dichloroethane	870		2500	3330		ug/L		99	77 - 120		3	20
1,1-Dichloroethene	ND		2500	2490		ug/L		100	66 - 127		11	16
1,2,4-Trichlorobenzene	ND		2500	2300		ug/L		92	79 - 122		9	20
1,2-Dibromo-3-Chloropropane	ND		2500	1840		ug/L		73	56 - 134		7	15
1,2-Dichlorobenzene	ND		2500	2380		ug/L		95	80 - 124		14	20
1,2-Dichloroethane	ND		2500	2150		ug/L		86	75 - 120		7	20
1,2-Dichloropropane	ND		2500	2330		ug/L		93	76 - 120		2	20
1,3-Dichlorobenzene	ND		2500	2470		ug/L		99	77 - 120		15	20
1,4-Dichlorobenzene	ND		2500	2420		ug/L		97	78 - 124		9	20
2-Butanone (MEK)	ND		12500	10300		ug/L		83	57 - 140		7	20
2-Hexanone	ND		12500	9660		ug/L		77	65 - 127		6	15

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-126300-2 MSD

Matrix: Water

Analysis Batch: 384727

Client Sample ID: ML-2I

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone (MIBK)	ND	F1	12500	9410		ug/L		75	71 - 125	9	35
Acetone	ND		12500	11500		ug/L		92	56 - 142	6	15
Benzene	ND		2500	2450		ug/L		98	71 - 124	4	13
Bromodichloromethane	ND		2500	2630		ug/L		105	80 - 122	3	15
Bromoform	ND		2500	2970		ug/L		119	61 - 132	8	15
Bromomethane	ND		2500	2240		ug/L		89	55 - 144	7	15
Carbon disulfide	ND		2500	2310		ug/L		93	59 - 134	6	15
Carbon tetrachloride	ND		2500	2830		ug/L		113	72 - 134	3	15
Chlorobenzene	ND		2500	2360		ug/L		94	80 - 120	8	25
Dibromochloromethane	ND		2500	2700		ug/L		108	75 - 125	7	15
Chloroethane	ND		2500	2220		ug/L		89	69 - 136	11	15
Chloroform	ND		2500	2480		ug/L		99	73 - 127	4	20
Chloromethane	ND		2500	2100		ug/L		84	68 - 124	4	15
cis-1,2-Dichloroethene	3000		2500	5780		ug/L		111	74 - 124	3	15
cis-1,3-Dichloropropene	ND		2500	2500		ug/L		100	74 - 124	8	15
Cyclohexane	ND		2500	2160		ug/L		86	59 - 135	3	20
Dichlorodifluoromethane	ND		2500	1960		ug/L		78	59 - 135	3	20
Ethylbenzene	ND		2500	2310		ug/L		92	77 - 123	6	15
1,2-Dibromoethane	ND	F1	2500	2100		ug/L		84	77 - 120	9	15
Isopropylbenzene	ND		2500	2450		ug/L		98	77 - 122	12	20
Methyl acetate	ND	F1 *	5000	3680		ug/L		74	74 - 133	8	20
Methyl tert-butyl ether	ND		2500	2150		ug/L		86	77 - 120	9	37
Methylcyclohexane	ND		2500	2150		ug/L		86	68 - 134	1	20
Methylene Chloride	ND		2500	2430		ug/L		97	75 - 124	12	15
Styrene	ND		2500	2480		ug/L		99	80 - 120	11	20
Tetrachloroethene	ND		2500	2340		ug/L		93	74 - 122	4	20
Toluene	170		2500	2510		ug/L		94	80 - 122	5	15
trans-1,2-Dichloroethene	ND		2500	2420		ug/L		97	73 - 127	4	20
trans-1,3-Dichloropropene	ND		2500	2160		ug/L		86	80 - 120	2	15
Trichloroethene	260		2500	2690		ug/L		97	74 - 123	1	16
Trichlorofluoromethane	ND		2500	2250		ug/L		90	62 - 150	3	20
Vinyl chloride	990		2500	3060		ug/L		83	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	94		80 - 120
1,2-Dichloroethane-d4 (Surr)	93		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: MB 480-384962/7

Matrix: Water

Analysis Batch: 384962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/01/17 11:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/01/17 11:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/01/17 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/01/17 11:29	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-384962/7

Matrix: Water

Analysis Batch: 384962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/01/17 11:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/01/17 11:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/01/17 11:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/01/17 11:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/01/17 11:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/01/17 11:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/01/17 11:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/01/17 11:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/01/17 11:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/01/17 11:29	1
2-Hexanone	ND		5.0	1.2	ug/L			11/01/17 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/01/17 11:29	1
Acetone	ND		10	3.0	ug/L			11/01/17 11:29	1
Benzene	ND		1.0	0.41	ug/L			11/01/17 11:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/01/17 11:29	1
Bromoform	ND		1.0	0.26	ug/L			11/01/17 11:29	1
Bromomethane	ND		1.0	0.69	ug/L			11/01/17 11:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/01/17 11:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/01/17 11:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/01/17 11:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/01/17 11:29	1
Chloroethane	ND		1.0	0.32	ug/L			11/01/17 11:29	1
Chloroform	ND		1.0	0.34	ug/L			11/01/17 11:29	1
Chloromethane	ND		1.0	0.35	ug/L			11/01/17 11:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/01/17 11:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/01/17 11:29	1
Cyclohexane	ND		1.0	0.18	ug/L			11/01/17 11:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/01/17 11:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/01/17 11:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/01/17 11:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/01/17 11:29	1
Methyl acetate	ND		2.5	1.3	ug/L			11/01/17 11:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/01/17 11:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/01/17 11:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/01/17 11:29	1
Styrene	ND		1.0	0.73	ug/L			11/01/17 11:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/01/17 11:29	1
Toluene	ND		1.0	0.51	ug/L			11/01/17 11:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/01/17 11:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/01/17 11:29	1
Trichloroethene	ND		1.0	0.46	ug/L			11/01/17 11:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/01/17 11:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/01/17 11:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/01/17 11:29	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L					11/01/17 11:29	1

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-384962/7

Matrix: Water

Analysis Batch: 384962

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		80 - 120		11/01/17 11:29	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		11/01/17 11:29	1
4-Bromofluorobenzene (Surr)	99		73 - 120		11/01/17 11:29	1
Dibromofluoromethane (Surr)	105		75 - 123		11/01/17 11:29	1

Lab Sample ID: LCS 480-384962/5

Matrix: Water

Analysis Batch: 384962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	61 - 148
1,1-Dichloroethane	25.0	24.6		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	24.1		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.1		ug/L		85	56 - 134
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	24.0		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 120
2-Butanone (MEK)	125	131		ug/L		105	57 - 140
2-Hexanone	125	118		ug/L		94	65 - 127
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	167		ug/L		134	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	27.3		ug/L		109	80 - 122
Bromoform	25.0	31.0		ug/L		124	61 - 132
Bromomethane	25.0	22.7		ug/L		91	55 - 144
Carbon disulfide	25.0	22.9		ug/L		91	59 - 134
Carbon tetrachloride	25.0	29.9		ug/L		120	72 - 134
Chlorobenzene	25.0	22.5		ug/L		90	80 - 120
Dibromochloromethane	25.0	27.1		ug/L		108	75 - 125
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
Chloromethane	25.0	23.1		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	22.6		ug/L		90	59 - 135
Dichlorodifluoromethane	25.0	21.3		ug/L		85	59 - 135
Ethylbenzene	25.0	22.3		ug/L		89	77 - 123
1,2-Dibromoethane	25.0	22.6		ug/L		91	77 - 120
Isopropylbenzene	25.0	24.3		ug/L		97	77 - 122
Methyl acetate	50.0	42.9		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.2		ug/L		93	77 - 120

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-384962/5

Matrix: Water

Analysis Batch: 384962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	25.0	23.7		ug/L		95	68 - 134
Methylene Chloride	25.0	23.5		ug/L		94	75 - 124
Styrene	25.0	23.8		ug/L		95	80 - 120
Tetrachloroethene	25.0	24.4		ug/L		98	74 - 122
Toluene	25.0	22.6		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	80 - 120
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	25.7		ug/L		103	62 - 150
Vinyl chloride	25.0	22.0		ug/L		88	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	111		75 - 123

Lab Sample ID: 480-126300-5 MS

Matrix: Water

Analysis Batch: 384962

Client Sample ID: ML-71

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	110		1250	1630		ug/L		122	73 - 126
1,1,1,2-Tetrachloroethane	ND		1250	1290		ug/L		103	76 - 120
1,1,2-Trichloroethane	ND		1250	1160		ug/L		93	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	380		1250	1900		ug/L		122	61 - 148
1,1-Dichloroethane	370		1250	1720		ug/L		108	77 - 120
1,1-Dichloroethene	ND		1250	1590		ug/L		127	66 - 127
1,2,4-Trichlorobenzene	ND		1250	1310		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	ND		1250	1210		ug/L		96	56 - 134
1,2-Dichlorobenzene	ND		1250	1240		ug/L		99	80 - 124
1,2-Dichloroethane	ND		1250	1270		ug/L		102	75 - 120
1,2-Dichloropropane	ND		1250	1280		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		1250	1290		ug/L		104	77 - 120
1,4-Dichlorobenzene	ND		1250	1300		ug/L		104	78 - 124
2-Butanone (MEK)	ND		6250	6810		ug/L		109	57 - 140
2-Hexanone	ND		6250	6200		ug/L		99	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		6250	6040		ug/L		97	71 - 125
Acetone	ND		6250	6750		ug/L		108	56 - 142
Benzene	59		1250	1440		ug/L		110	71 - 124
Bromodichloromethane	ND		1250	1460		ug/L		117	80 - 122
Bromoform	ND	F1	1250	1860	F1	ug/L		149	61 - 132
Bromomethane	ND		1250	1220		ug/L		97	55 - 144
Carbon disulfide	ND		1250	1370		ug/L		110	59 - 134
Carbon tetrachloride	ND	F1	1250	1740	F1	ug/L		139	72 - 134
Chlorobenzene	ND		1250	1250		ug/L		100	80 - 120
Dibromochloromethane	ND	F1	1250	1530		ug/L		123	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-126300-5 MS

Matrix: Water

Analysis Batch: 384962

Client Sample ID: ML-71

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	170		1250	1440		ug/L		102	69 - 136
Chloroform	ND		1250	1430		ug/L		114	73 - 127
Chloromethane	ND		1250	1180		ug/L		94	68 - 124
cis-1,2-Dichloroethene	2800		1250	4170		ug/L		107	74 - 124
cis-1,3-Dichloropropene	ND		1250	1300		ug/L		104	74 - 124
Cyclohexane	ND		1250	1380		ug/L		111	59 - 135
Dichlorodifluoromethane	ND		1250	1140		ug/L		91	59 - 135
Ethylbenzene	ND		1250	1270		ug/L		101	77 - 123
1,2-Dibromoethane	ND		1250	1240		ug/L		99	77 - 120
Isopropylbenzene	ND		1250	1340		ug/L		107	77 - 122
Methyl acetate	ND		2500	2390		ug/L		95	74 - 133
Methyl tert-butyl ether	ND		1250	1260		ug/L		100	77 - 120
Methylcyclohexane	ND		1250	1430		ug/L		114	68 - 134
Methylene Chloride	ND		1250	1290		ug/L		103	75 - 124
Styrene	ND		1250	1320		ug/L		106	80 - 120
Tetrachloroethene	35	J	1250	1330		ug/L		103	74 - 122
Toluene	75		1250	1360		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		1250	1420		ug/L		114	73 - 127
trans-1,3-Dichloropropene	ND		1250	1300		ug/L		104	80 - 120
Trichloroethene	140		1250	1530		ug/L		111	74 - 123
Trichlorofluoromethane	ND		1250	1420		ug/L		113	62 - 150
Vinyl chloride	510		1250	1660		ug/L		93	65 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	112		75 - 123

Lab Sample ID: 480-126300-5 MSD

Matrix: Water

Analysis Batch: 384962

Client Sample ID: ML-71

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	110		1250	1510		ug/L		112	73 - 126	8	15
1,1,1,2-Tetrachloroethane	ND		1250	1190		ug/L		95	76 - 120	8	15
1,1,2-Trichloroethane	ND		1250	1130		ug/L		90	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	380		1250	1700		ug/L		106	61 - 148	11	20
1,1-Dichloroethane	370		1250	1620		ug/L		100	77 - 120	6	20
1,1-Dichloroethene	ND		1250	1390		ug/L		112	66 - 127	13	16
1,2,4-Trichlorobenzene	ND		1250	1240		ug/L		99	79 - 122	5	20
1,2-Dibromo-3-Chloropropane	ND		1250	1150		ug/L		92	56 - 134	5	15
1,2-Dichlorobenzene	ND		1250	1180		ug/L		94	80 - 124	5	20
1,2-Dichloroethane	ND		1250	1190		ug/L		95	75 - 120	6	20
1,2-Dichloropropane	ND		1250	1220		ug/L		98	76 - 120	5	20
1,3-Dichlorobenzene	ND		1250	1190		ug/L		95	77 - 120	8	20
1,4-Dichlorobenzene	ND		1250	1220		ug/L		98	78 - 124	7	20

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-126300-5 MSD

Matrix: Water

Analysis Batch: 384962

Client Sample ID: ML-71

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	ND		6250	6490		ug/L		104	57 - 140	5	20
2-Hexanone	ND		6250	6030		ug/L		96	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		6250	5900		ug/L		94	71 - 125	2	35
Acetone	ND		6250	6930		ug/L		111	56 - 142	3	15
Benzene	59		1250	1300		ug/L		99	71 - 124	10	13
Bromodichloromethane	ND		1250	1380		ug/L		111	80 - 122	6	15
Bromoform	ND	F1	1250	1700	F1	ug/L		136	61 - 132	9	15
Bromomethane	ND		1250	1090		ug/L		87	55 - 144	11	15
Carbon disulfide	ND		1250	1250		ug/L		100	59 - 134	9	15
Carbon tetrachloride	ND	F1	1250	1570		ug/L		125	72 - 134	11	15
Chlorobenzene	ND		1250	1220		ug/L		98	80 - 120	2	25
Dibromochloromethane	ND	F1	1250	1600	F1	ug/L		128	75 - 125	4	15
Chloroethane	170		1250	1320		ug/L		91	69 - 136	9	15
Chloroform	ND		1250	1280		ug/L		102	73 - 127	11	20
Chloromethane	ND		1250	1080		ug/L		86	68 - 124	9	15
cis-1,2-Dichloroethene	2800		1250	3910		ug/L		86	74 - 124	6	15
cis-1,3-Dichloropropene	ND		1250	1290		ug/L		103	74 - 124	1	15
Cyclohexane	ND		1250	1270		ug/L		101	59 - 135	9	20
Dichlorodifluoromethane	ND		1250	1050		ug/L		84	59 - 135	8	20
Ethylbenzene	ND		1250	1180		ug/L		94	77 - 123	7	15
1,2-Dibromoethane	ND		1250	1170		ug/L		93	77 - 120	6	15
Isopropylbenzene	ND		1250	1220		ug/L		97	77 - 122	9	20
Methyl acetate	ND		2500	2330		ug/L		93	74 - 133	2	20
Methyl tert-butyl ether	ND		1250	1200		ug/L		96	77 - 120	5	37
Methylcyclohexane	ND		1250	1200		ug/L		96	68 - 134	17	20
Methylene Chloride	ND		1250	1180		ug/L		94	75 - 124	9	15
Styrene	ND		1250	1240		ug/L		100	80 - 120	6	20
Tetrachloroethene	35	J	1250	1240		ug/L		96	74 - 122	7	20
Toluene	75		1250	1270		ug/L		96	80 - 122	7	15
trans-1,2-Dichloroethene	ND		1250	1290		ug/L		103	73 - 127	10	20
trans-1,3-Dichloropropene	ND		1250	1180		ug/L		94	80 - 120	10	15
Trichloroethene	140		1250	1380		ug/L		99	74 - 123	10	16
Trichlorofluoromethane	ND		1250	1260		ug/L		101	62 - 150	12	20
Vinyl chloride	510		1250	1490		ug/L		78	65 - 133	11	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	113		75 - 123

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-383922/2
Matrix: Water
Analysis Batch: 383922

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			10/26/17 09:37	1
Ethene	ND		7.0	1.5	ug/L			10/26/17 09:37	1

Lab Sample ID: LCS 480-383922/3
Matrix: Water
Analysis Batch: 383922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	12.7		ug/L		87	79 - 120
Ethene	13.6	11.8		ug/L		87	85 - 120

Lab Sample ID: LCSD 480-383922/4
Matrix: Water
Analysis Batch: 383922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.6	17.5		ug/L		120	79 - 120	31	50
Ethene	13.6	15.6		ug/L		114	85 - 120	27	50

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-384412/3
Matrix: Water
Analysis Batch: 384412

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			10/28/17 12:54	1

Lab Sample ID: LCS 480-384412/4
Matrix: Water
Analysis Batch: 384412

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	2.08		mg/L		104	90 - 110

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
T	Result is a tentatively identified compound (TIC) and an estimated value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

GC/MS VOA

Analysis Batch: 384727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126300-1	ML-2S	Total/NA	Water	8260C	
480-126300-2	ML-2I	Total/NA	Water	8260C	
480-126300-3	ML-2D	Total/NA	Water	8260C	
480-126300-7	DUPLICATE	Total/NA	Water	8260C	
MB 480-384727/7	Method Blank	Total/NA	Water	8260C	
LCS 480-384727/4	Lab Control Sample	Total/NA	Water	8260C	
480-126300-2 MS	ML-2I	Total/NA	Water	8260C	
480-126300-2 MSD	ML-2I	Total/NA	Water	8260C	

Analysis Batch: 384962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126300-4	ML-7S	Total/NA	Water	8260C	
480-126300-5	ML-7I	Total/NA	Water	8260C	
480-126300-6	ML-7D	Total/NA	Water	8260C	
480-126300-8	TRIP BLANK	Total/NA	Water	8260C	
MB 480-384962/7	Method Blank	Total/NA	Water	8260C	
LCS 480-384962/5	Lab Control Sample	Total/NA	Water	8260C	
480-126300-5 MS	ML-7I	Total/NA	Water	8260C	
480-126300-5 MSD	ML-7I	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 383922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126300-1	ML-2S	Total/NA	Water	RSK-175	
480-126300-2	ML-2I	Total/NA	Water	RSK-175	
480-126300-3	ML-2D	Total/NA	Water	RSK-175	
480-126300-4	ML-7S	Total/NA	Water	RSK-175	
480-126300-5	ML-7I	Total/NA	Water	RSK-175	
480-126300-6	ML-7D	Total/NA	Water	RSK-175	
MB 480-383922/2	Method Blank	Total/NA	Water	RSK-175	
LCS 480-383922/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-383922/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 383151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126300-1	ML-2S	Total/NA	Water	353.2	
480-126300-2	ML-2I	Total/NA	Water	353.2	
480-126300-3	ML-2D	Total/NA	Water	353.2	
480-126300-4	ML-7S	Total/NA	Water	353.2	

Analysis Batch: 383161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126300-5	ML-7I	Total/NA	Water	353.2	
480-126300-6	ML-7D	Total/NA	Water	353.2	

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

General Chemistry (Continued)

Analysis Batch: 384412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-126300-1	ML-2S	Total/NA	Water	SM 3500 FE D	
480-126300-2	ML-2I	Total/NA	Water	SM 3500 FE D	
480-126300-3	ML-2D	Total/NA	Water	SM 3500 FE D	
480-126300-4	ML-7S	Total/NA	Water	SM 3500 FE D	
480-126300-5	ML-7I	Total/NA	Water	SM 3500 FE D	
480-126300-6	ML-7D	Total/NA	Water	SM 3500 FE D	
MB 480-384412/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-384412/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-2S

Date Collected: 10/19/17 08:45

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	384727	10/31/17 17:55	KMN	TAL BUF
Total/NA	Analysis	RSK-175		1	383922	10/26/17 10:55	TRG	TAL BUF
Total/NA	Analysis	353.2		1	383151	10/21/17 11:42	SSS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	384412	10/28/17 12:54	LED	TAL BUF

Client Sample ID: ML-2I

Date Collected: 10/18/17 12:55

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	384727	10/31/17 16:43	KMN	TAL BUF
Total/NA	Analysis	RSK-175		1	383922	10/26/17 11:13	TRG	TAL BUF
Total/NA	Analysis	353.2		1	383151	10/21/17 11:34	SSS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	384412	10/28/17 12:54	LED	TAL BUF

Client Sample ID: ML-2D

Date Collected: 10/18/17 15:50

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	384727	10/31/17 17:07	KMN	TAL BUF
Total/NA	Analysis	RSK-175		1	383922	10/26/17 11:30	TRG	TAL BUF
Total/NA	Analysis	353.2		1	383151	10/21/17 11:44	SSS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	384412	10/28/17 12:54	LED	TAL BUF

Client Sample ID: ML-7S

Date Collected: 10/19/17 12:20

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	384962	11/01/17 14:22	KMN	TAL BUF
Total/NA	Analysis	RSK-175		1	383922	10/26/17 11:48	TRG	TAL BUF
Total/NA	Analysis	353.2		1	383151	10/21/17 11:30	SSS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	384412	10/28/17 12:54	LED	TAL BUF

Client Sample ID: ML-7I

Date Collected: 10/19/17 14:40

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	384962	11/01/17 14:46	KMN	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Client Sample ID: ML-7I

Date Collected: 10/19/17 14:40

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	383922	10/26/17 12:05	TRG	TAL BUF
Total/NA	Analysis	353.2		1	383161	10/21/17 14:42	SSS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	384412	10/28/17 12:54	LED	TAL BUF

Client Sample ID: ML-7D

Date Collected: 10/20/17 10:20

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	384962	11/01/17 15:10	KMN	TAL BUF
Total/NA	Analysis	RSK-175		1	383922	10/26/17 12:23	TRG	TAL BUF
Total/NA	Analysis	353.2		1	383161	10/21/17 14:43	SSS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	384412	10/28/17 12:54	LED	TAL BUF

Client Sample ID: DUPLICATE

Date Collected: 10/18/17 12:55

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	384727	10/31/17 17:31	KMN	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 10/20/17 00:00

Date Received: 10/21/17 08:45

Lab Sample ID: 480-126300-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	384962	11/01/17 15:34	KMN	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-126300-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2S	480-126300-1	101	90	97	97
ML-2I	480-126300-2	108	94	99	95
ML-2D	480-126300-3	109	98	95	95
ML-7S	480-126300-4	112	104	94	95
ML-7I	480-126300-5	117	108	95	97
ML-7D	480-126300-6	110	101	96	90
DUPLICATE	480-126300-7	102	89	94	91
TRIP BLANK	480-126300-8	114	106	94	93
	MB 480-384727/7	105	94	97	98
	MB 480-384962/7	105	99	99	99
	LCS 480-384727/4	101	88	99	93
	LCS 480-384962/5	111	102	97	94
ML-2I MS	480-126300-2 MS	107	92	94	94
ML-7I MS	480-126300-5 MS	112	104	97	99
ML-2I MSD	480-126300-2 MSD	104	93	94	92
ML-7I MSD	480-126300-5 MSD	113	102	97	96

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1176.D

Lab ID: LCS 480-384727/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.4	106	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.9	83	76-120	
1,1,2-Trichloroethane	25.0	22.1	88	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6	102	61-148	
1,1-Dichloroethane	25.0	24.1	97	77-120	
1,1-Dichloroethene	25.0	25.1	100	66-127	
1,2,4-Trichlorobenzene	25.0	23.7	95	79-122	
1,2-Dibromo-3-Chloropropane	25.0	19.5	78	56-134	
1,2-Dichlorobenzene	25.0	23.6	94	80-124	
1,2-Dichloroethane	25.0	20.6	82	75-120	
1,2-Dichloropropane	25.0	24.5	98	76-120	
1,3-Dichlorobenzene	25.0	25.0	100	77-120	
1,4-Dichlorobenzene	25.0	24.4	98	80-120	
2-Butanone (MEK)	125	106	85	57-140	
2-Hexanone	125	104	83	65-127	
4-Methyl-2-pentanone (MIBK)	125	94.9	76	71-125	
Acetone	125	132	105	56-142	
Benzene	25.0	24.8	99	71-124	
Bromodichloromethane	25.0	26.1	104	80-122	
Bromoform	25.0	30.8	123	61-132	
Bromomethane	25.0	23.6	94	55-144	
Carbon disulfide	25.0	23.7	95	59-134	
Carbon tetrachloride	25.0	30.2	121	72-134	
Chlorobenzene	25.0	25.3	101	80-120	
Dibromochloromethane	25.0	29.4	118	75-125	
Chloroethane	25.0	23.9	95	69-136	
Chloroform	25.0	24.5	98	73-127	
Chloromethane	25.0	21.7	87	68-124	
cis-1,2-Dichloroethene	25.0	24.4	97	74-124	
cis-1,3-Dichloropropene	25.0	25.2	101	74-124	
Cyclohexane	25.0	24.1	96	59-135	
Dichlorodifluoromethane	25.0	22.5	90	59-135	
Ethylbenzene	25.0	25.1	100	77-123	
1,2-Dibromoethane	25.0	22.0	88	77-120	
Isopropylbenzene	25.0	25.4	102	77-122	
Methyl acetate	50.0	34.7	69	74-133	*
Methyl tert-butyl ether	25.0	20.4	81	77-120	
Methylcyclohexane	25.0	25.1	100	68-134	
Methylene Chloride	25.0	21.3	85	75-124	
Styrene	25.0	25.8	103	80-120	
Tetrachloroethene	25.0	25.8	103	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1176.D

Lab ID: LCS 480-384727/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.6	99	80-122	
trans-1,2-Dichloroethene	25.0	25.2	101	73-127	
trans-1,3-Dichloropropene	25.0	22.9	91	80-120	
Trichloroethene	25.0	24.9	100	74-123	
Trichlorofluoromethane	25.0	24.2	97	62-150	
Vinyl chloride	25.0	21.1	84	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1232.D

Lab ID: LCS 480-384962/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.3	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.1	92	76-120	
1,1,2-Trichloroethane	25.0	21.5	86	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	100	61-148	
1,1-Dichloroethane	25.0	24.6	98	77-120	
1,1-Dichloroethene	25.0	24.1	96	66-127	
1,2,4-Trichlorobenzene	25.0	23.7	95	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.1	85	56-134	
1,2-Dichlorobenzene	25.0	23.7	95	80-124	
1,2-Dichloroethane	25.0	23.0	92	75-120	
1,2-Dichloropropane	25.0	24.0	96	76-120	
1,3-Dichlorobenzene	25.0	24.5	98	77-120	
1,4-Dichlorobenzene	25.0	24.8	99	80-120	
2-Butanone (MEK)	125	131	105	57-140	
2-Hexanone	125	118	94	65-127	
4-Methyl-2-pentanone (MIBK)	125	110	88	71-125	
Acetone	125	167	134	56-142	
Benzene	25.0	24.2	97	71-124	
Bromodichloromethane	25.0	27.3	109	80-122	
Bromoform	25.0	31.0	124	61-132	
Bromomethane	25.0	22.7	91	55-144	
Carbon disulfide	25.0	22.9	91	59-134	
Carbon tetrachloride	25.0	29.9	120	72-134	
Chlorobenzene	25.0	22.5	90	80-120	
Dibromochloromethane	25.0	27.1	108	75-125	
Chloroethane	25.0	25.5	102	69-136	
Chloroform	25.0	24.8	99	73-127	
Chloromethane	25.0	23.1	92	68-124	
cis-1,2-Dichloroethene	25.0	25.0	100	74-124	
cis-1,3-Dichloropropene	25.0	24.7	99	74-124	
Cyclohexane	25.0	22.6	90	59-135	
Dichlorodifluoromethane	25.0	21.3	85	59-135	
Ethylbenzene	25.0	22.3	89	77-123	
1,2-Dibromoethane	25.0	22.6	91	77-120	
Isopropylbenzene	25.0	24.3	97	77-122	
Methyl acetate	50.0	42.9	86	74-133	
Methyl tert-butyl ether	25.0	23.2	93	77-120	
Methylcyclohexane	25.0	23.7	95	68-134	
Methylene Chloride	25.0	23.5	94	75-124	
Styrene	25.0	23.8	95	80-120	
Tetrachloroethene	25.0	24.4	98	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1232.D

Lab ID: LCS 480-384962/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	22.6	90	80-122	
trans-1,2-Dichloroethene	25.0	25.2	101	73-127	
trans-1,3-Dichloropropene	25.0	23.4	94	80-120	
Trichloroethene	25.0	24.3	97	74-123	
Trichlorofluoromethane	25.0	25.7	103	62-150	
Vinyl chloride	25.0	22.0	88	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T1197.D

Lab ID: 480-126300-2 MS

Client ID: ML-2I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	480	2990	100	73-126	
1,1,2,2-Tetrachloroethane	2500	ND	1910	76	76-120	
1,1,2-Trichloroethane	2500	ND	1940	78	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	650	2950	92	61-148	
1,1-Dichloroethane	2500	870	3250	95	77-120	
1,1-Dichloroethene	2500	ND	2240	90	66-127	
1,2,4-Trichlorobenzene	2500	ND	2100	84	79-122	
1,2-Dibromo-3-Chloropropane	2500	ND	1710	68	56-134	
1,2-Dichlorobenzene	2500	ND	2060	82	80-124	
1,2-Dichloroethane	2500	ND	2010	80	75-120	
1,2-Dichloropropane	2500	ND	2280	91	76-120	
1,3-Dichlorobenzene	2500	ND	2140	85	77-120	
1,4-Dichlorobenzene	2500	ND	2220	89	78-124	
2-Butanone (MEK)	12500	ND	9600	77	57-140	
2-Hexanone	12500	ND	9110	73	65-127	
4-Methyl-2-pentanone (MIBK)	12500	ND	8620	69	71-125	F1
Acetone	12500	ND	10800	86	56-142	
Benzene	2500	ND	2360	94	71-124	
Bromodichloromethane	2500	ND	2560	102	80-122	
Bromoform	2500	ND	2740	109	61-132	
Bromomethane	2500	ND	2400	96	55-144	
Carbon disulfide	2500	ND	2180	87	59-134	
Carbon tetrachloride	2500	ND	2740	109	72-134	
Chlorobenzene	2500	ND	2170	87	80-120	
Dibromochloromethane	2500	ND	2520	101	75-125	
Chloroethane	2500	ND	2480	99	69-136	
Chloroform	2500	ND	2390	96	73-127	
Chloromethane	2500	ND	2200	88	68-124	
cis-1,2-Dichloroethene	2500	3000	5630	105	74-124	
cis-1,3-Dichloropropene	2500	ND	2300	92	74-124	
Cyclohexane	2500	ND	2090	84	59-135	
Dichlorodifluoromethane	2500	ND	2030	81	59-135	
Ethylbenzene	2500	ND	2170	87	77-123	
1,2-Dibromoethane	2500	ND	1910	76	77-120	F1
Isopropylbenzene	2500	ND	2170	87	77-122	
Methyl acetate	5000	ND	3400	68	74-133	F1
Methyl tert-butyl ether	2500	ND	1970	79	77-120	
Methylcyclohexane	2500	ND	2120	85	68-134	
Methylene Chloride	2500	ND	2150	86	75-124	
Styrene	2500	ND	2240	89	80-120	
Tetrachloroethene	2500	ND	2250	90	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1197.D

Lab ID: 480-126300-2 MS Client ID: ML-2I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	2500	170	2400	89	80-122	
trans-1,2-Dichloroethene	2500	ND	2340	94	73-127	
trans-1,3-Dichloropropene	2500	ND	2110	84	80-120	
Trichloroethene	2500	260	2710	98	74-123	
Trichlorofluoromethane	2500	ND	2310	93	62-150	
Vinyl chloride	2500	990	3160	87	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T1253.D

Lab ID: 480-126300-5 MS

Client ID: ML-7I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	1250	110	1630	122	73-126	
1,1,2,2-Tetrachloroethane	1250	ND	1290	103	76-120	
1,1,2-Trichloroethane	1250	ND	1160	93	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	1250	380	1900	122	61-148	
1,1-Dichloroethane	1250	370	1720	108	77-120	
1,1-Dichloroethene	1250	ND	1590	127	66-127	
1,2,4-Trichlorobenzene	1250	ND	1310	104	79-122	
1,2-Dibromo-3-Chloropropane	1250	ND	1210	96	56-134	
1,2-Dichlorobenzene	1250	ND	1240	99	80-124	
1,2-Dichloroethane	1250	ND	1270	102	75-120	
1,2-Dichloropropane	1250	ND	1280	102	76-120	
1,3-Dichlorobenzene	1250	ND	1290	104	77-120	
1,4-Dichlorobenzene	1250	ND	1300	104	78-124	
2-Butanone (MEK)	6250	ND	6810	109	57-140	
2-Hexanone	6250	ND	6200	99	65-127	
4-Methyl-2-pentanone (MIBK)	6250	ND	6040	97	71-125	
Acetone	6250	ND	6750	108	56-142	
Benzene	1250	59	1440	110	71-124	
Bromodichloromethane	1250	ND	1460	117	80-122	
Bromoform	1250	ND	1860	149	61-132	F1
Bromomethane	1250	ND	1220	97	55-144	
Carbon disulfide	1250	ND	1370	110	59-134	
Carbon tetrachloride	1250	ND	1740	139	72-134	F1
Chlorobenzene	1250	ND	1250	100	80-120	
Dibromochloromethane	1250	ND	1530	123	75-125	
Chloroethane	1250	170	1440	102	69-136	
Chloroform	1250	ND	1430	114	73-127	
Chloromethane	1250	ND	1180	94	68-124	
cis-1,2-Dichloroethene	1250	2800	4170	107	74-124	
cis-1,3-Dichloropropene	1250	ND	1300	104	74-124	
Cyclohexane	1250	ND	1380	111	59-135	
Dichlorodifluoromethane	1250	ND	1140	91	59-135	
Ethylbenzene	1250	ND	1270	101	77-123	
1,2-Dibromoethane	1250	ND	1240	99	77-120	
Isopropylbenzene	1250	ND	1340	107	77-122	
Methyl acetate	2500	ND	2390	95	74-133	
Methyl tert-butyl ether	1250	ND	1260	100	77-120	
Methylcyclohexane	1250	ND	1430	114	68-134	
Methylene Chloride	1250	ND	1290	103	75-124	
Styrene	1250	ND	1320	106	80-120	
Tetrachloroethene	1250	35 J	1330	103	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1253.D

Lab ID: 480-126300-5 MS Client ID: ML-7I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	1250	75	1360	103	80-122	
trans-1,2-Dichloroethene	1250	ND	1420	114	73-127	
trans-1,3-Dichloropropene	1250	ND	1300	104	80-120	
Trichloroethene	1250	140	1530	111	74-123	
Trichlorofluoromethane	1250	ND	1420	113	62-150	
Vinyl chloride	1250	510	1660	93	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T1198.D

Lab ID: 480-126300-2 MSD

Client ID: ML-2I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	2500	3050	103	2	15	73-126	
1,1,2,2-Tetrachloroethane	2500	2100	84	9	15	76-120	
1,1,2-Trichloroethane	2500	2000	80	3	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	3040	95	3	20	61-148	
1,1-Dichloroethane	2500	3330	99	3	20	77-120	
1,1-Dichloroethene	2500	2490	100	11	16	66-127	
1,2,4-Trichlorobenzene	2500	2300	92	9	20	79-122	
1,2-Dibromo-3-Chloropropane	2500	1840	73	7	15	56-134	
1,2-Dichlorobenzene	2500	2380	95	14	20	80-124	
1,2-Dichloroethane	2500	2150	86	7	20	75-120	
1,2-Dichloropropane	2500	2330	93	2	20	76-120	
1,3-Dichlorobenzene	2500	2470	99	15	20	77-120	
1,4-Dichlorobenzene	2500	2420	97	9	20	78-124	
2-Butanone (MEK)	12500	10300	83	7	20	57-140	
2-Hexanone	12500	9660	77	6	15	65-127	
4-Methyl-2-pentanone (MIBK)	12500	9410	75	9	35	71-125	
Acetone	12500	11500	92	6	15	56-142	
Benzene	2500	2450	98	4	13	71-124	
Bromodichloromethane	2500	2630	105	3	15	80-122	
Bromoform	2500	2970	119	8	15	61-132	
Bromomethane	2500	2240	89	7	15	55-144	
Carbon disulfide	2500	2310	93	6	15	59-134	
Carbon tetrachloride	2500	2830	113	3	15	72-134	
Chlorobenzene	2500	2360	94	8	25	80-120	
Dibromochloromethane	2500	2700	108	7	15	75-125	
Chloroethane	2500	2220	89	11	15	69-136	
Chloroform	2500	2480	99	4	20	73-127	
Chloromethane	2500	2100	84	4	15	68-124	
cis-1,2-Dichloroethene	2500	5780	111	3	15	74-124	
cis-1,3-Dichloropropene	2500	2500	100	8	15	74-124	
Cyclohexane	2500	2160	86	3	20	59-135	
Dichlorodifluoromethane	2500	1960	78	3	20	59-135	
Ethylbenzene	2500	2310	92	6	15	77-123	
1,2-Dibromoethane	2500	2100	84	9	15	77-120	
Isopropylbenzene	2500	2450	98	12	20	77-122	
Methyl acetate	5000	3680	74	8	20	74-133	
Methyl tert-butyl ether	2500	2150	86	9	37	77-120	
Methylcyclohexane	2500	2150	86	1	20	68-134	
Methylene Chloride	2500	2430	97	12	15	75-124	
Styrene	2500	2480	99	11	20	80-120	
Tetrachloroethene	2500	2340	93	4	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T1198.D
 Lab ID: 480-126300-2 MSD Client ID: ML-2I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	2500	2510	94	5	15	80-122	
trans-1,2-Dichloroethene	2500	2420	97	4	20	73-127	
trans-1,3-Dichloropropene	2500	2160	86	2	15	80-120	
Trichloroethene	2500	2690	97	1	16	74-123	
Trichlorofluoromethane	2500	2250	90	3	20	62-150	
Vinyl chloride	2500	3060	83	3	15	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T1254.D

Lab ID: 480-126300-5 MSD

Client ID: ML-7I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	1250	1510	112	8	15	73-126	
1,1,2,2-Tetrachloroethane	1250	1190	95	8	15	76-120	
1,1,2-Trichloroethane	1250	1130	90	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	1250	1700	106	11	20	61-148	
1,1-Dichloroethane	1250	1620	100	6	20	77-120	
1,1-Dichloroethene	1250	1390	112	13	16	66-127	
1,2,4-Trichlorobenzene	1250	1240	99	5	20	79-122	
1,2-Dibromo-3-Chloropropane	1250	1150	92	5	15	56-134	
1,2-Dichlorobenzene	1250	1180	94	5	20	80-124	
1,2-Dichloroethane	1250	1190	95	6	20	75-120	
1,2-Dichloropropane	1250	1220	98	5	20	76-120	
1,3-Dichlorobenzene	1250	1190	95	8	20	77-120	
1,4-Dichlorobenzene	1250	1220	98	7	20	78-124	
2-Butanone (MEK)	6250	6490	104	5	20	57-140	
2-Hexanone	6250	6030	96	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	6250	5900	94	2	35	71-125	
Acetone	6250	6930	111	3	15	56-142	
Benzene	1250	1300	99	10	13	71-124	
Bromodichloromethane	1250	1380	111	6	15	80-122	
Bromoform	1250	1700	136	9	15	61-132	F1
Bromomethane	1250	1090	87	11	15	55-144	
Carbon disulfide	1250	1250	100	9	15	59-134	
Carbon tetrachloride	1250	1570	125	11	15	72-134	
Chlorobenzene	1250	1220	98	2	25	80-120	
Dibromochloromethane	1250	1600	128	4	15	75-125	F1
Chloroethane	1250	1320	91	9	15	69-136	
Chloroform	1250	1280	102	11	20	73-127	
Chloromethane	1250	1080	86	9	15	68-124	
cis-1,2-Dichloroethene	1250	3910	86	6	15	74-124	
cis-1,3-Dichloropropene	1250	1290	103	1	15	74-124	
Cyclohexane	1250	1270	101	9	20	59-135	
Dichlorodifluoromethane	1250	1050	84	8	20	59-135	
Ethylbenzene	1250	1180	94	7	15	77-123	
1,2-Dibromoethane	1250	1170	93	6	15	77-120	
Isopropylbenzene	1250	1220	97	9	20	77-122	
Methyl acetate	2500	2330	93	2	20	74-133	
Methyl tert-butyl ether	1250	1200	96	5	37	77-120	
Methylcyclohexane	1250	1200	96	17	20	68-134	
Methylene Chloride	1250	1180	94	9	15	75-124	
Styrene	1250	1240	100	6	20	80-120	
Tetrachloroethene	1250	1240	96	7	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T1254.D

Lab ID: 480-126300-5 MSD Client ID: ML-7I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	1250	1270	96	7	15	80-122	
trans-1,2-Dichloroethene	1250	1290	103	10	20	73-127	
trans-1,3-Dichloropropene	1250	1180	94	10	15	80-120	
Trichloroethene	1250	1380	99	10	16	74-123	
Trichlorofluoromethane	1250	1260	101	12	20	62-150	
Vinyl chloride	1250	1490	78	11	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab File ID: T1178.D Lab Sample ID: MB 480-384727/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5975T Date Analyzed: 10/31/2017 10:35
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-384727/4	T1176.D	10/31/2017 09:48
ML-2I	480-126300-2	T1193.D	10/31/2017 16:43
ML-2D	480-126300-3	T1194.D	10/31/2017 17:07
DUPLICATE	480-126300-7	T1195.D	10/31/2017 17:31
ML-2S	480-126300-1	T1196.D	10/31/2017 17:55
ML-2I MS	480-126300-2 MS	T1197.D	10/31/2017 18:19
ML-2I MSD	480-126300-2 MSD	T1198.D	10/31/2017 18:43

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab File ID: T1234.D Lab Sample ID: MB 480-384962/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5975T Date Analyzed: 11/01/2017 11:29
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-384962/5	T1232.D	11/01/2017 10:42
ML-7S	480-126300-4	T1241.D	11/01/2017 14:22
ML-7I	480-126300-5	T1242.D	11/01/2017 14:46
ML-7D	480-126300-6	T1243.D	11/01/2017 15:10
TRIP BLANK	480-126300-8	T1244.D	11/01/2017 15:34
ML-7I MS	480-126300-5 MS	T1253.D	11/01/2017 19:09
ML-7I MSD	480-126300-5 MSD	T1254.D	11/01/2017 19:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab File ID: T0525.D BFB Injection Date: 10/19/2017
 Instrument ID: HP5975T BFB Injection Time: 16:09
 Analysis Batch No.: 382770

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	34.0
75	30.0 - 60.0 % of mass 95	53.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.1
173	Less than 2.0 % of mass 174	0.5 (0.8) 1
174	50.0 - 120.00 % of mass 95	65.1
175	5.0 - 9.0 % of mass 174	4.0 (6.2) 1
176	95.0 - 101.0 % of mass 174	63.9 (98.1) 1
177	5.0 - 9.0 % of mass 176	3.4 (5.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-382770/6	T0527.D	10/19/2017	16:57
	IC 480-382770/7	T0528.D	10/19/2017	17:21
	IC 480-382770/8	T0529.D	10/19/2017	17:44
	IC 480-382770/9	T0530.D	10/19/2017	18:08
	IC 480-382770/10	T0531.D	10/19/2017	18:31
	ICIS 480-382770/11	T0532.D	10/19/2017	18:55
	IC 480-382770/12	T0533.D	10/19/2017	19:18
	IC 480-382770/13	T0534.D	10/19/2017	19:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab File ID: T1172.D BFB Injection Date: 10/31/2017
 Instrument ID: HP5975T BFB Injection Time: 08:11
 Analysis Batch No.: 384727

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	29.3
75	30.0 - 60.0 % of mass 95	52.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.4 (0.6) 1
174	50.0 - 120.00 % of mass 95	62.7
175	5.0 - 9.0 % of mass 174	4.7 (7.5) 1
176	95.0 - 101.0 % of mass 174	61.8 (98.6) 1
177	5.0 - 9.0 % of mass 176	4.1 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-384727/10	T1175.D	10/31/2017	09:24
	LCS 480-384727/4	T1176.D	10/31/2017	09:48
	MB 480-384727/7	T1178.D	10/31/2017	10:35
ML-2I	480-126300-2	T1193.D	10/31/2017	16:43
ML-2D	480-126300-3	T1194.D	10/31/2017	17:07
DUPLICATE	480-126300-7	T1195.D	10/31/2017	17:31
ML-2S	480-126300-1	T1196.D	10/31/2017	17:55
ML-2I MS	480-126300-2 MS	T1197.D	10/31/2017	18:19
ML-2I MSD	480-126300-2 MSD	T1198.D	10/31/2017	18:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab File ID: T1229.D BFB Injection Date: 11/01/2017
 Instrument ID: HP5975T BFB Injection Time: 09:26
 Analysis Batch No.: 384962

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	31.2
75	30.0 - 60.0 % of mass 95	50.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.7 (1.1) 1
174	50.0 - 120.00 % of mass 95	63.9
175	5.0 - 9.0 % of mass 174	3.5 (5.5) 1
176	95.0 - 101.0 % of mass 174	63.5 (99.3) 1
177	5.0 - 9.0 % of mass 176	3.7 (5.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-384962/3	T1230.D	11/01/2017	09:54
	LCS 480-384962/5	T1232.D	11/01/2017	10:42
	MB 480-384962/7	T1234.D	11/01/2017	11:29
ML-7S	480-126300-4	T1241.D	11/01/2017	14:22
ML-7I	480-126300-5	T1242.D	11/01/2017	14:46
ML-7D	480-126300-6	T1243.D	11/01/2017	15:10
TRIP BLANK	480-126300-8	T1244.D	11/01/2017	15:34
ML-7I MS	480-126300-5 MS	T1253.D	11/01/2017	19:09
ML-7I MSD	480-126300-5 MSD	T1254.D	11/01/2017	19:33

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Sample No.: ICIS 480-382770/11 Date Analyzed: 10/19/2017 18:55
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T0532.D Heated Purge: (Y/N) N
 Calibration ID: 31781

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	222595	4.88	731281	7.17	349659	9.04
UPPER LIMIT	445190	5.38	1462562	7.67	699318	9.54
LOWER LIMIT	111298	4.38	365641	6.67	174830	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-384727/10	198510	4.87	614897	7.17	296739	9.04
CCVIS 480-384962/3	205868	4.87	691647	7.17	329330	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Sample No.: CCVIS 480-384727/10 Date Analyzed: 10/31/2017 09:24
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T1175.D Heated Purge: (Y/N) N
 Calibration ID: 31784

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	198510	4.87	614897	7.17	296739	9.04	
UPPER LIMIT	397020	5.37	1229794	7.67	593478	9.54	
LOWER LIMIT	99255	4.37	307449	6.67	148370	8.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-384727/4	188335	4.87	614490	7.17	299296	9.04	
MB 480-384727/7	183202	4.87	606592	7.17	283588	9.04	
480-126300-2	ML-2I	170079	4.87	564446	7.17	257679	9.04
480-126300-3	ML-2D	162141	4.87	573678	7.17	266014	9.04
480-126300-7	DUPLICATE	176037	4.88	577790	7.17	259486	9.04
480-126300-1	ML-2S	174242	4.87	558779	7.17	258280	9.04
480-126300-2 MS	ML-2I MS	170860	4.87	602592	7.17	292660	9.04
480-126300-2 MSD	ML-2I MSD	174724	4.88	606415	7.17	277143	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Sample No.: CCVIS 480-384962/3 Date Analyzed: 11/01/2017 09:54
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T1230.D Heated Purge: (Y/N) N
 Calibration ID: 31784

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	205868	4.87	691647	7.17	329330	9.04	
UPPER LIMIT	411736	5.37	1383294	7.67	658660	9.54	
LOWER LIMIT	102934	4.37	345824	6.67	164665	8.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-384962/5	170835	4.88	607575	7.17	278504	9.04	
MB 480-384962/7	174768	4.87	586982	7.17	280930	9.04	
480-126300-4	ML-7S	165954	4.88	592006	7.17	275889	9.04
480-126300-5	ML-7I	159398	4.88	577346	7.17	273822	9.04
480-126300-6	ML-7D	168945	4.87	586675	7.17	267790	9.04
480-126300-8	TRIP BLANK	163475	4.88	587725	7.17	271722	9.04
480-126300-5 MS	ML-7I MS	163849	4.87	585966	7.17	283520	9.04
480-126300-5 MSD	ML-7I MSD	170528	4.88	604285	7.17	294342	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-126300-1
 Matrix: Water Lab File ID: T1196.D
 Analysis Method: 8260C Date Collected: 10/19/2017 08:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:55
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	33		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	33	J	100	30
71-43-2	Benzene	6.0	J	10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	4.6	J	10	3.2
67-66-3	Chloroform	4.1	J	10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	160		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-126300-1
 Matrix: Water Lab File ID: T1196.D
 Analysis Method: 8260C Date Collected: 10/19/2017 08:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:55
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	25	13
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	490		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-126300-1
 Matrix: Water Lab File ID: T1196.D
 Analysis Method: 8260C Date Collected: 10/19/2017 08:45
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:55
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 30

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.31	30	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D
 Lims ID: 480-126300-F-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 31-Oct-2017 17:55:30 ALS Bottle#: 25 Worklist Smp#: 35
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-126300-e-1
 Misc. Info.: 480-0066859-035
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 19:33:19 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: sonkera

Date: 31-Oct-2017 18:50:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	174242	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	558779	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	258280	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	195753	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	270229	22.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	704409	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	170493	24.3	
11 Dichlorodifluoromethane	85		1.242				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62	1.491	1.501	-0.010	97	792706	48.7	
15 Bromomethane	94		1.792				ND	
16 Chloroethane	64	1.854	1.854	0.000	58	3286	0.4569	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96		2.517				ND	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	1	2080	0.2747	
23 Acetone	43	2.641	2.631	0.010	76	11423	3.25	M
25 Carbon disulfide	76		2.703				ND	
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73		3.180				ND	
32 trans-1,2-Dichloroethene	96	3.190	3.191	-0.001	36	5332	0.6230	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	66711	3.28	
43 cis-1,2-Dichloroethene	96	4.020	4.030	-0.010	87	166746	16.3	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83	4.289	4.279	0.010	1	6442	0.4122	M
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	2	3696	0.2924	
52 Cyclohexane	56		4.382				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	41	21034	0.6020	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95	5.139	5.139	0.000	82	3360	0.3804	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92	6.103	6.103	-0.001	89	2995	0.1425	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166		6.496				ND	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91		7.253				ND	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	2540	0.1792	
91 o-Xylene	106	7.667	7.667	0.000	92	4855	0.3432	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105		7.947				ND	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.040				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		0.5224	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D
 Lims ID: 480-126300-F-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 31-Oct-2017 17:55:30 ALS Bottle#: 25 Worklist Smp#: 35
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-126300-e-1
 Misc. Info.: 480-0066859-035
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 19:33:19 Calib Date: 20-Oct-2017 00:03:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055
 First Level Reviewer: sonkera Date: 31-Oct-2017 18:50:25

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.310	234702	3.01	153		Unknown			

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.869	1949361	25.0

QC Flag Legend

Processing Flags

Reagents:

T_8260_IS_00176 Amount Added: 1.00 Units: uL Run Reagent
 T_8260_Surr_00160 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Worklist Smp#: 35

Client ID: ML-2S

Purge Vol: 5.000 mL

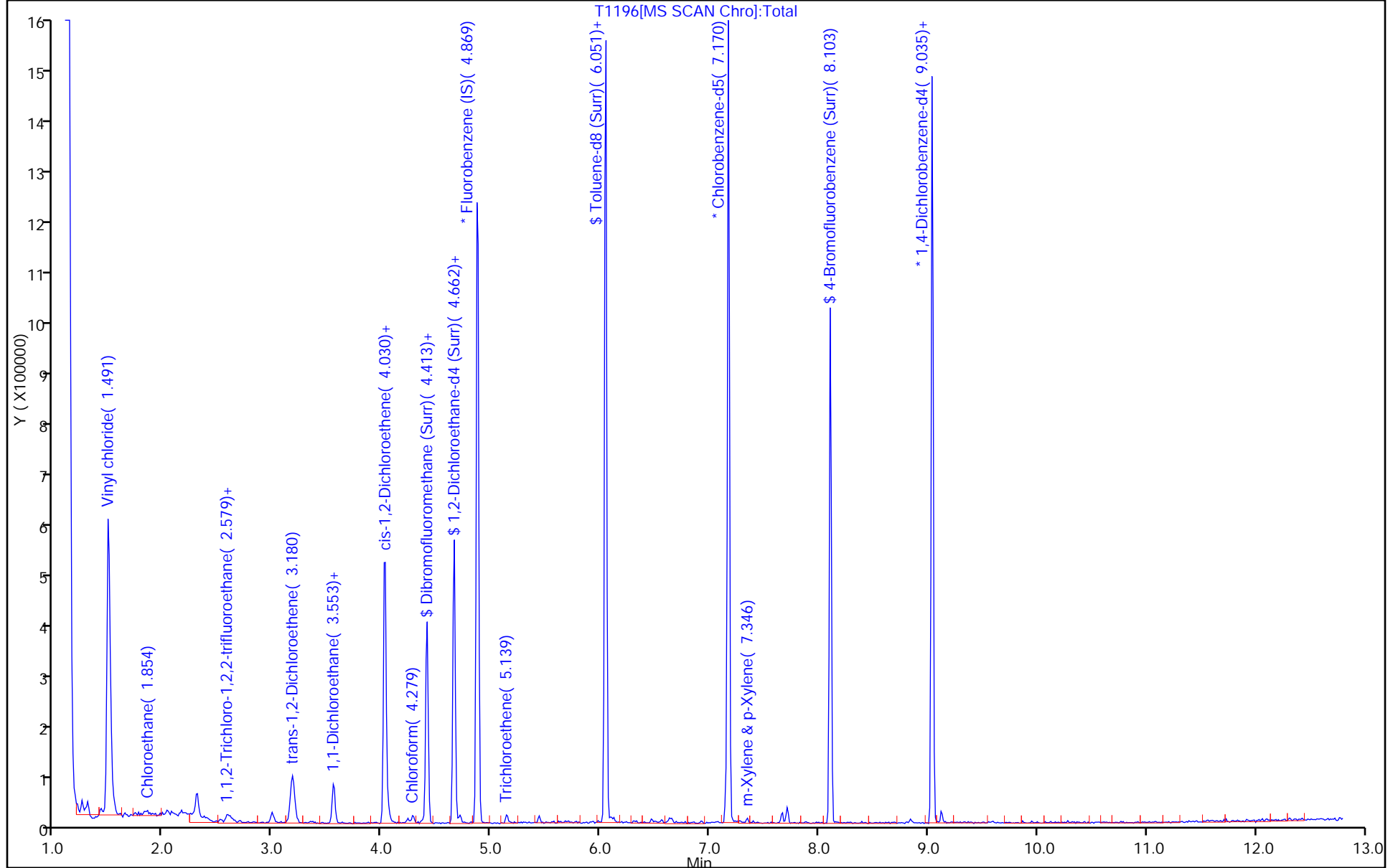
Dil. Factor: 10.0000

ALS Bottle#: 25

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

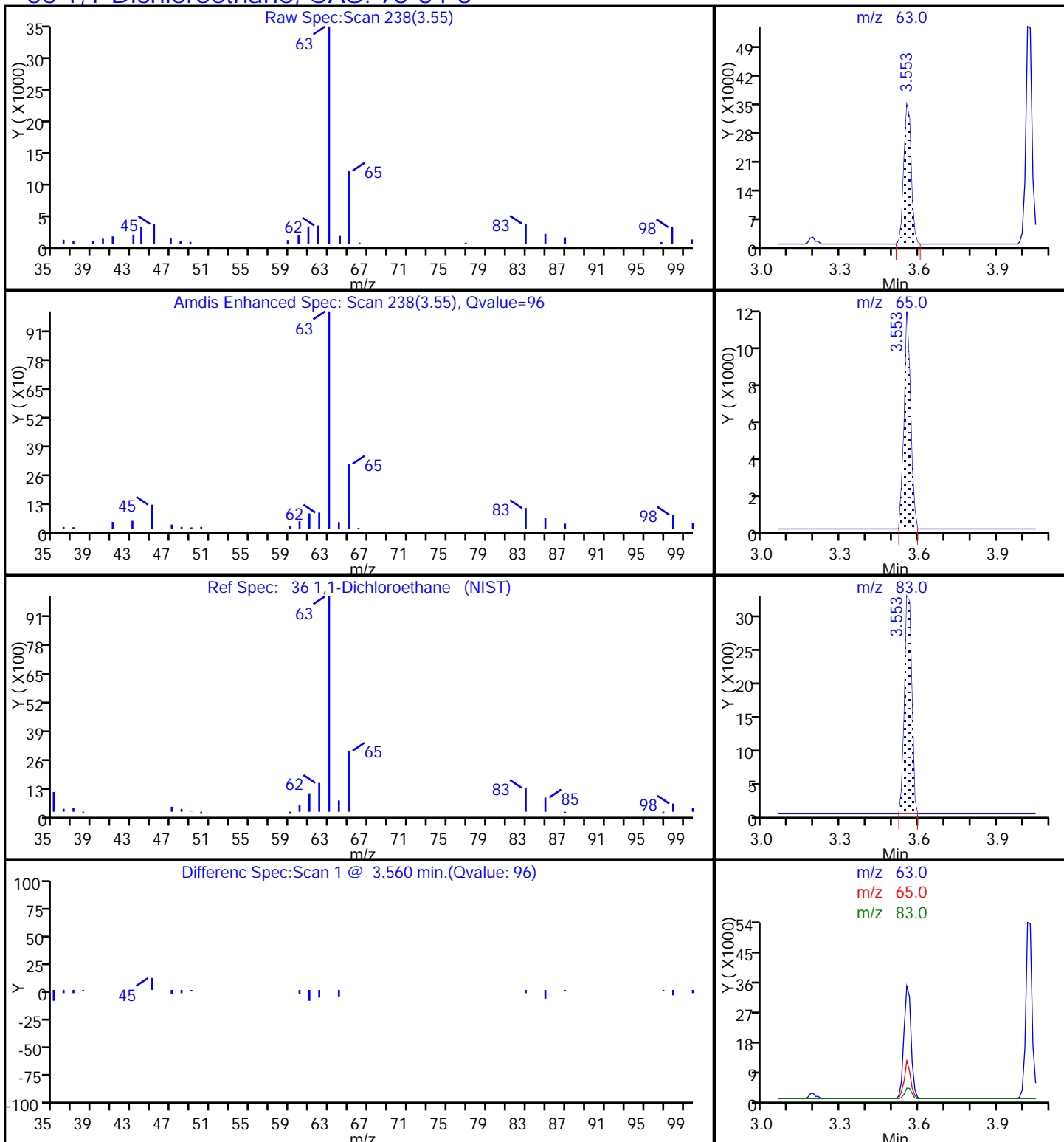
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

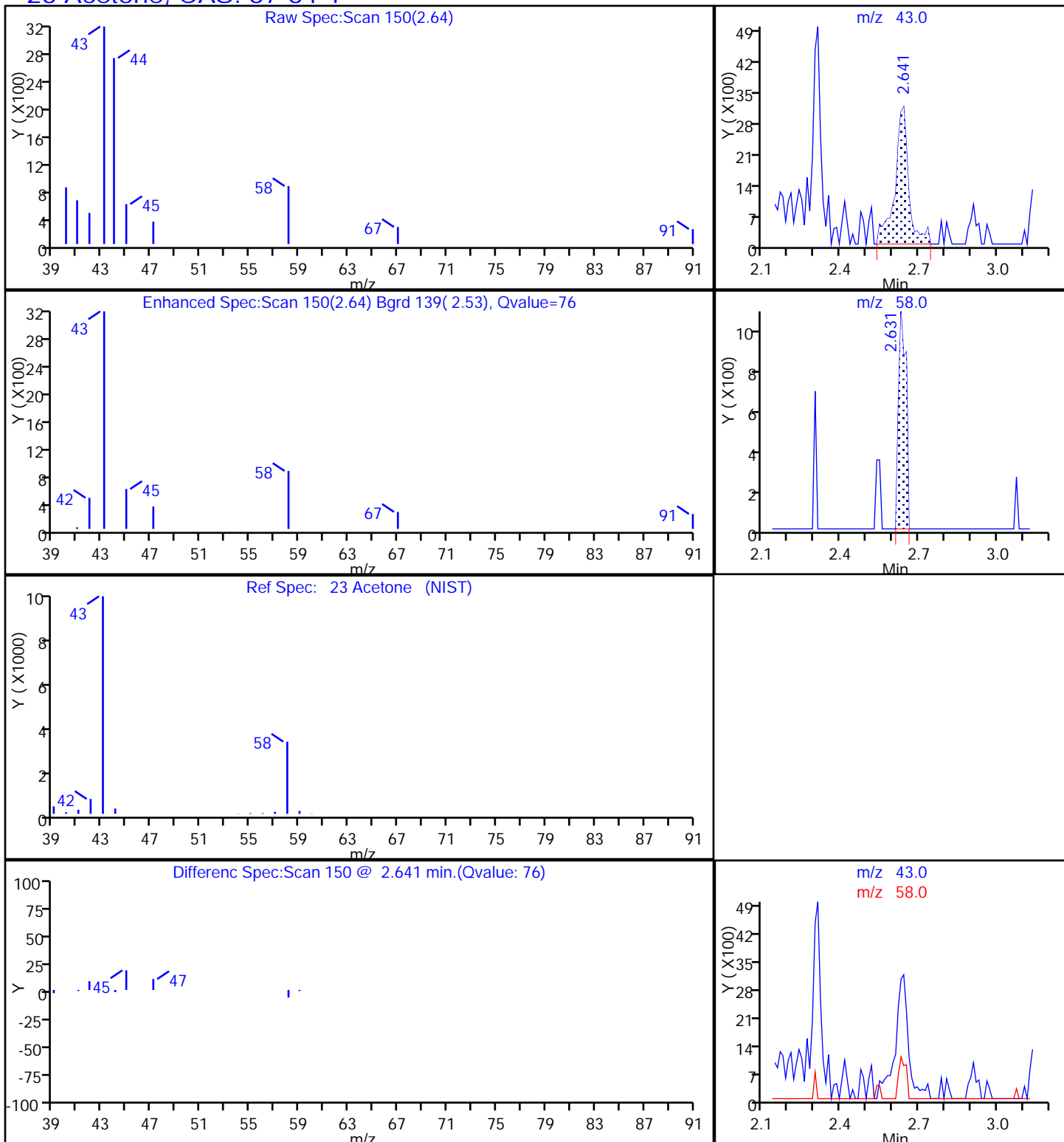
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

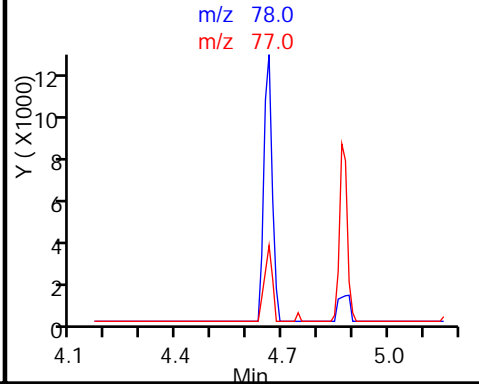
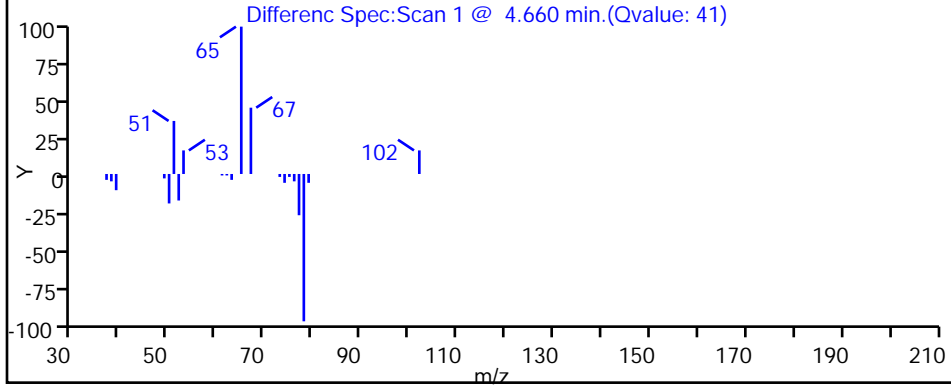
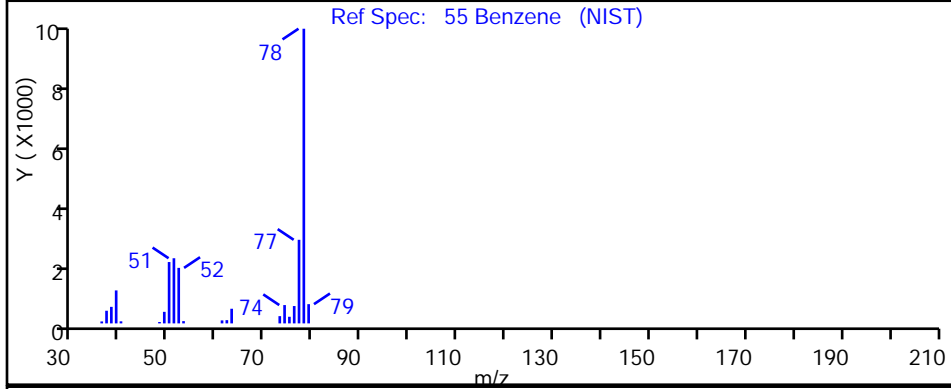
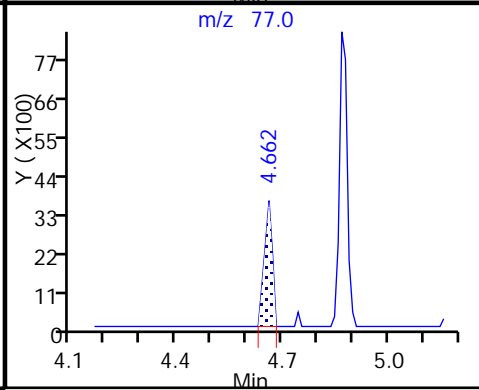
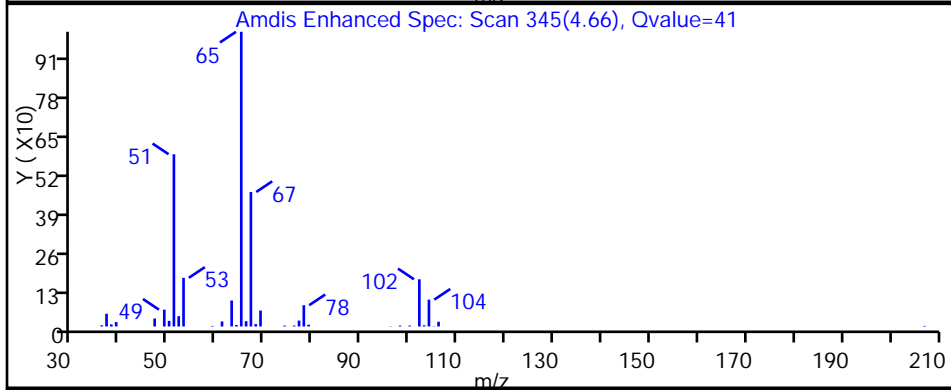
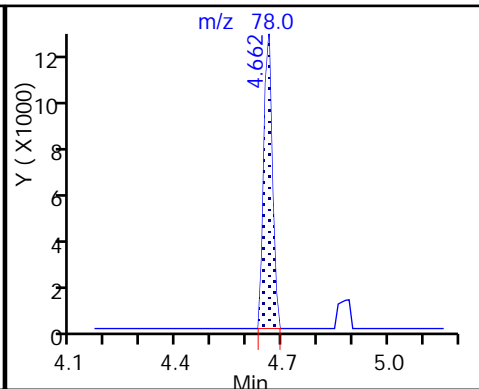
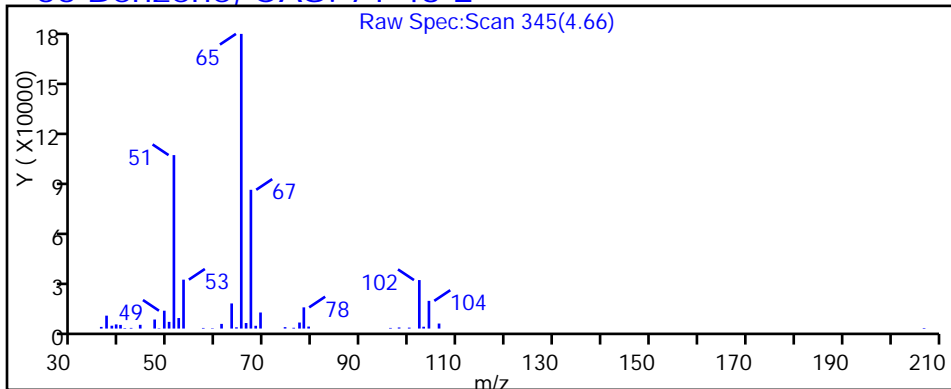
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

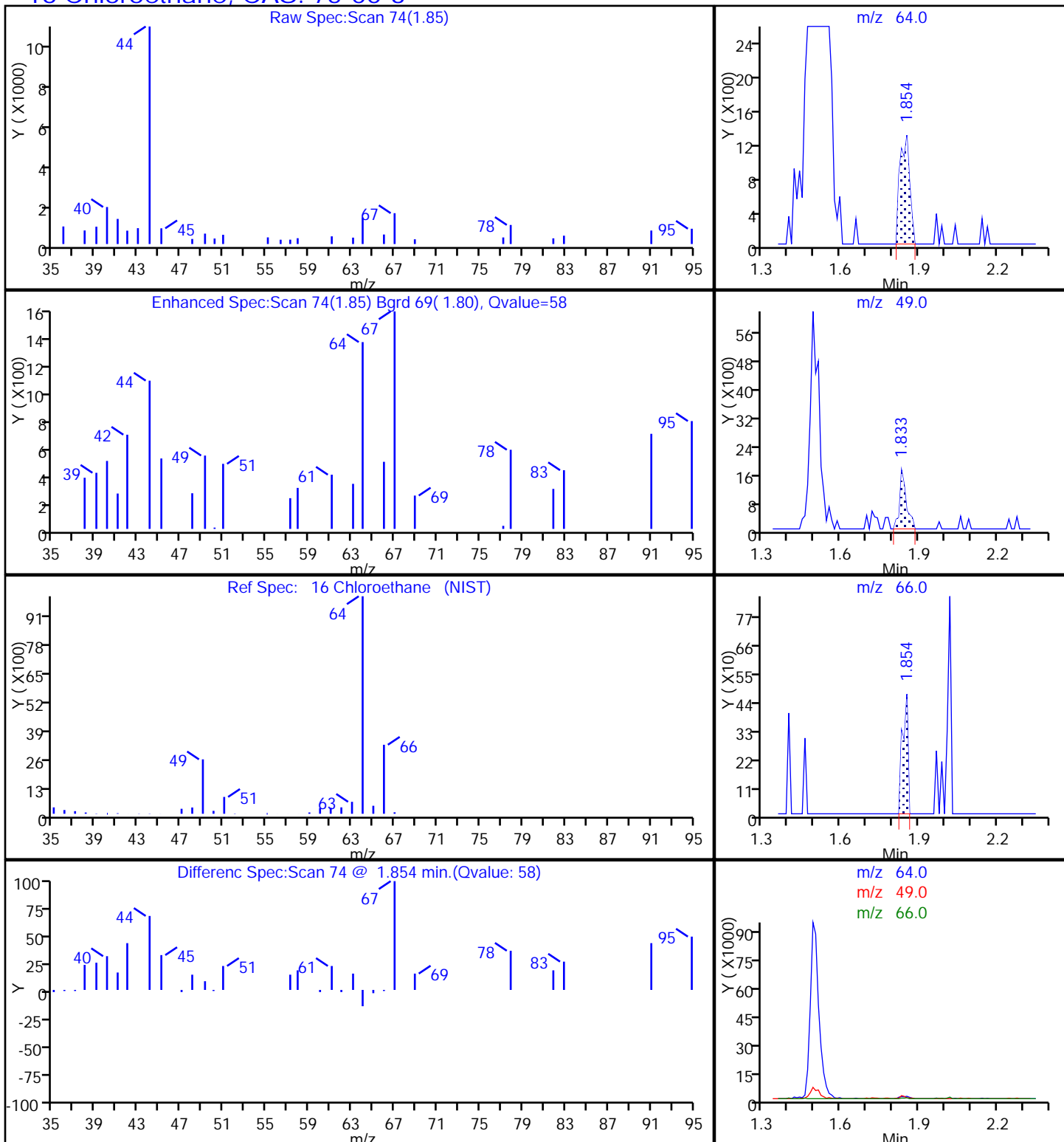
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

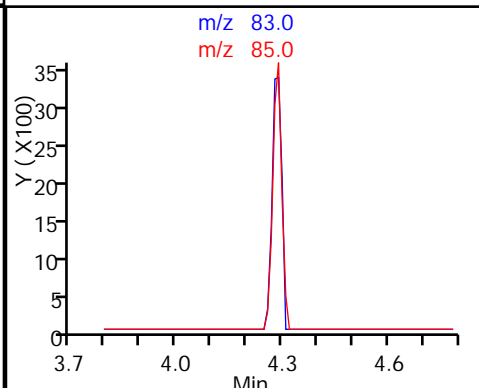
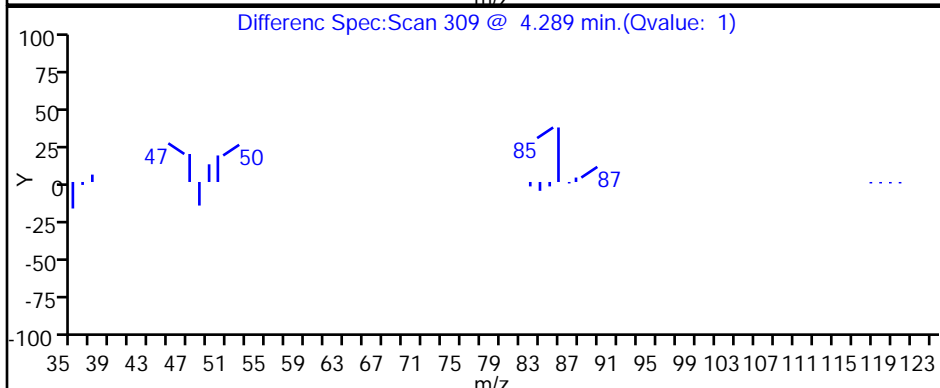
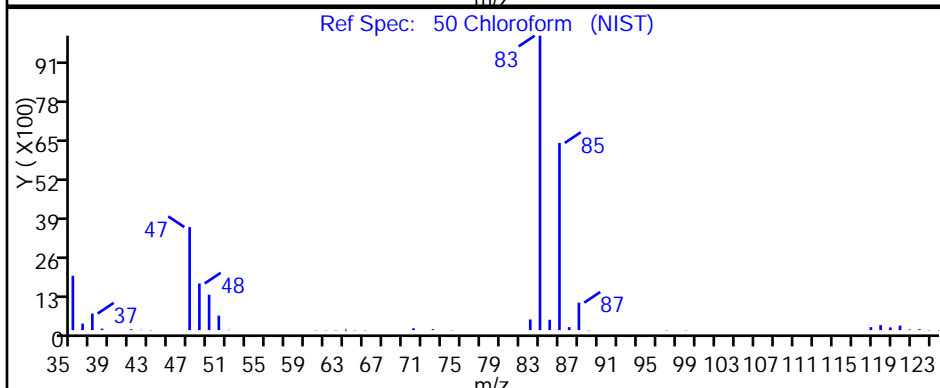
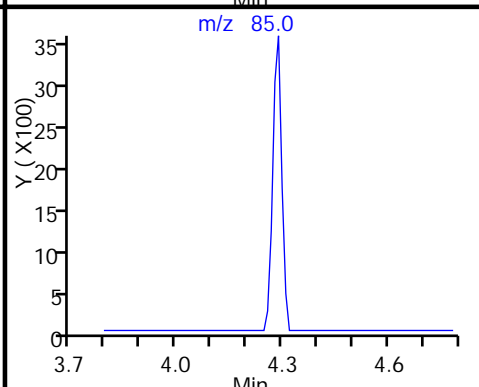
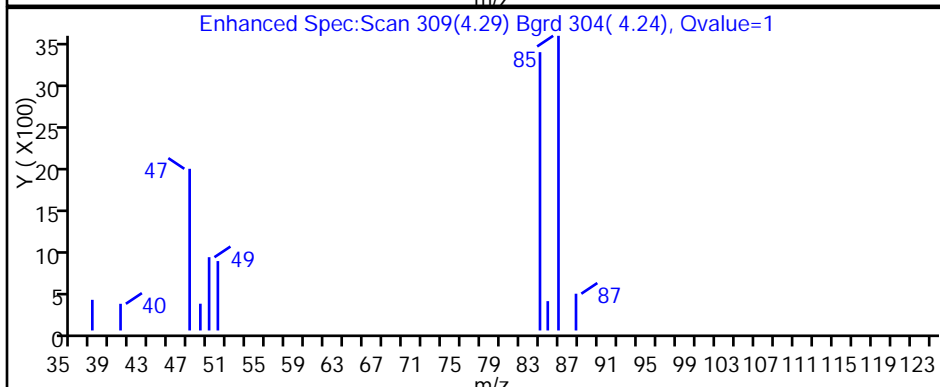
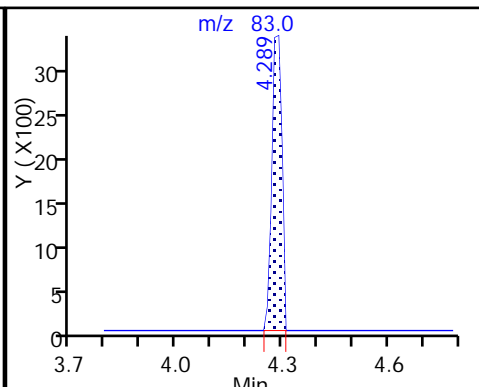
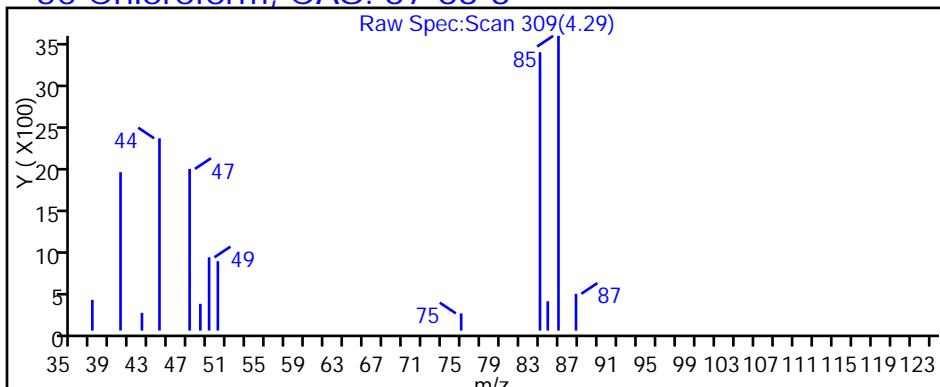
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

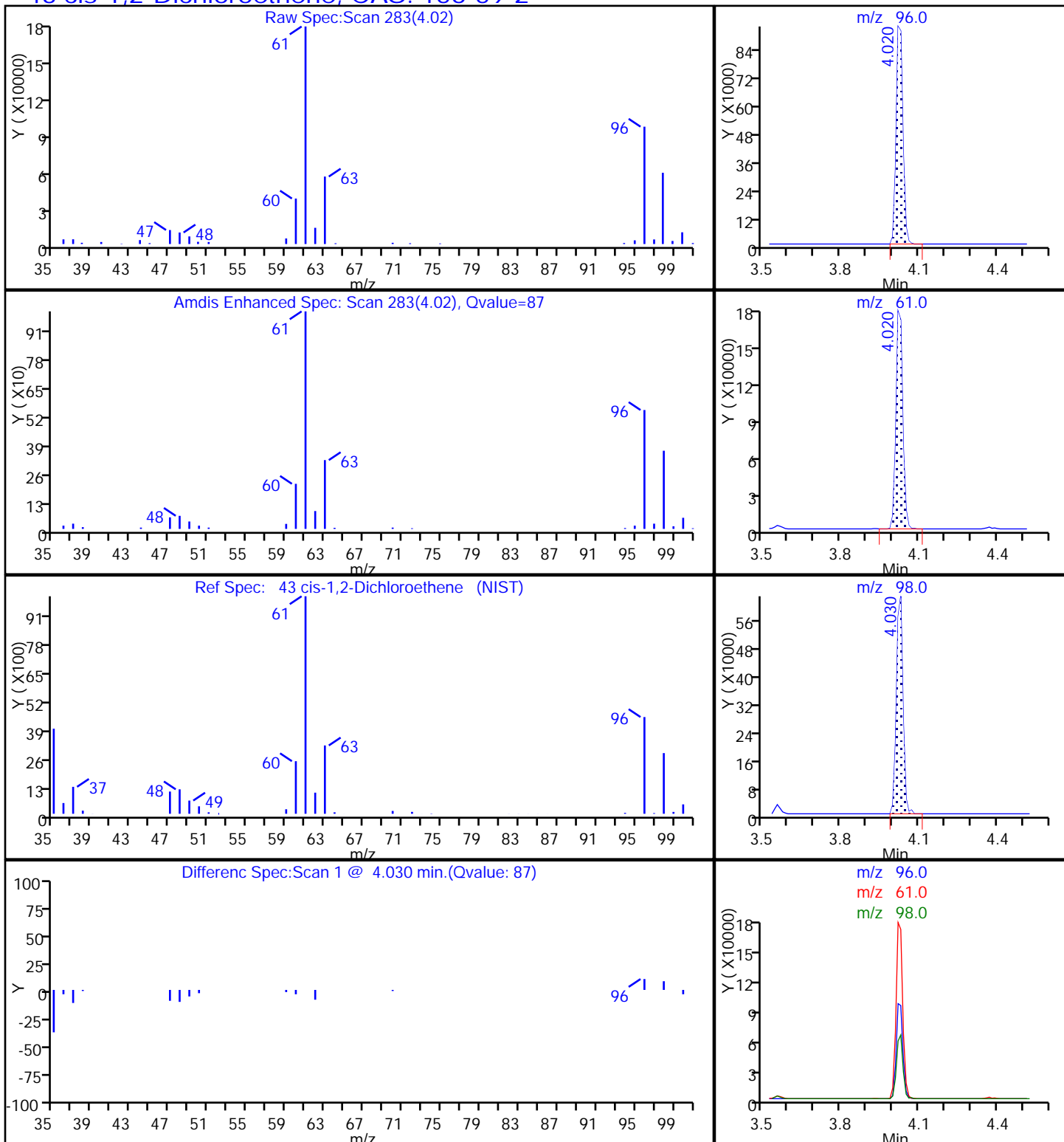
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25

Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

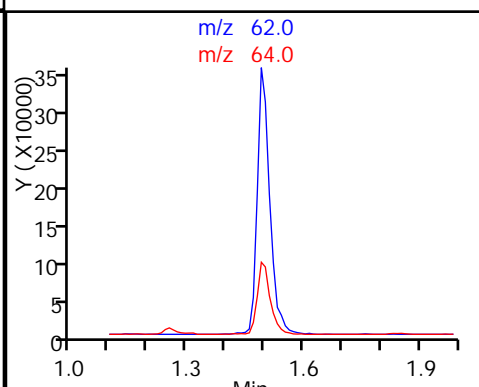
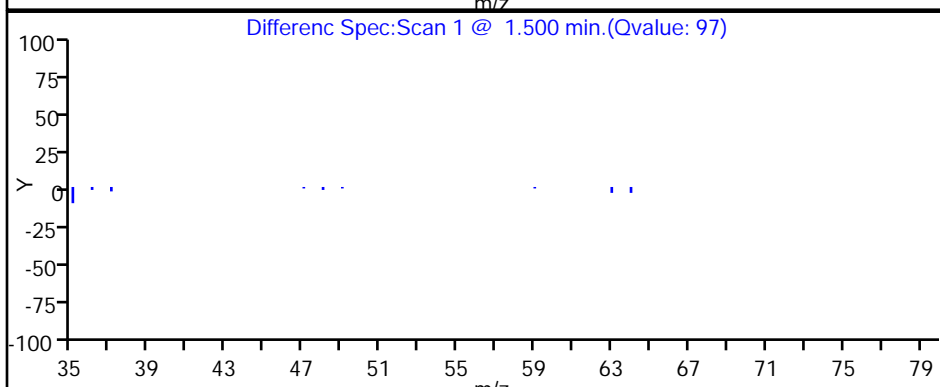
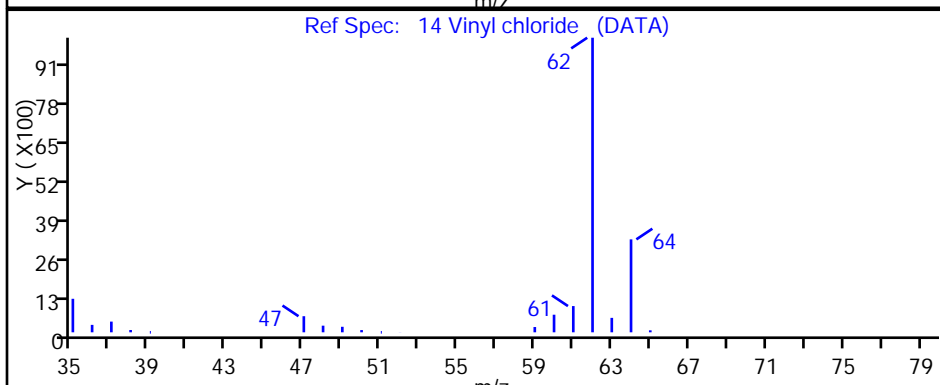
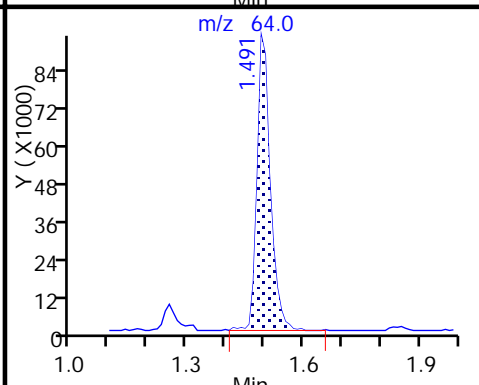
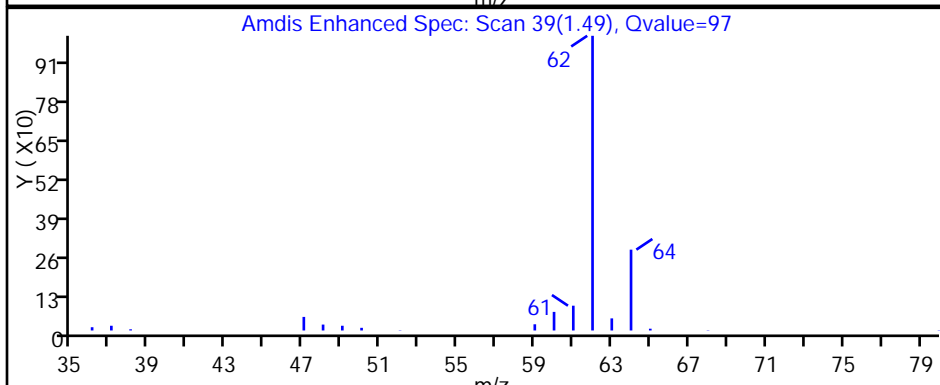
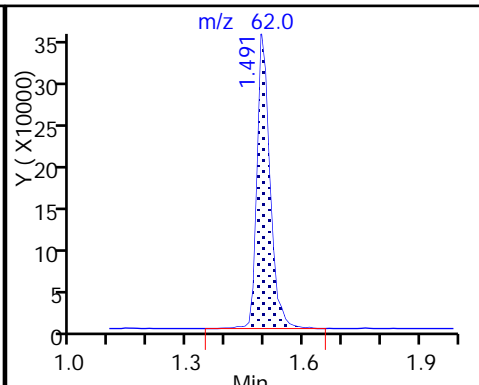
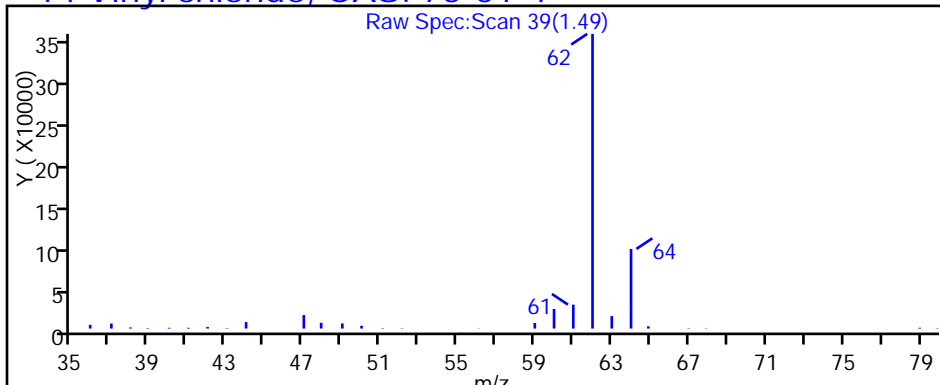
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

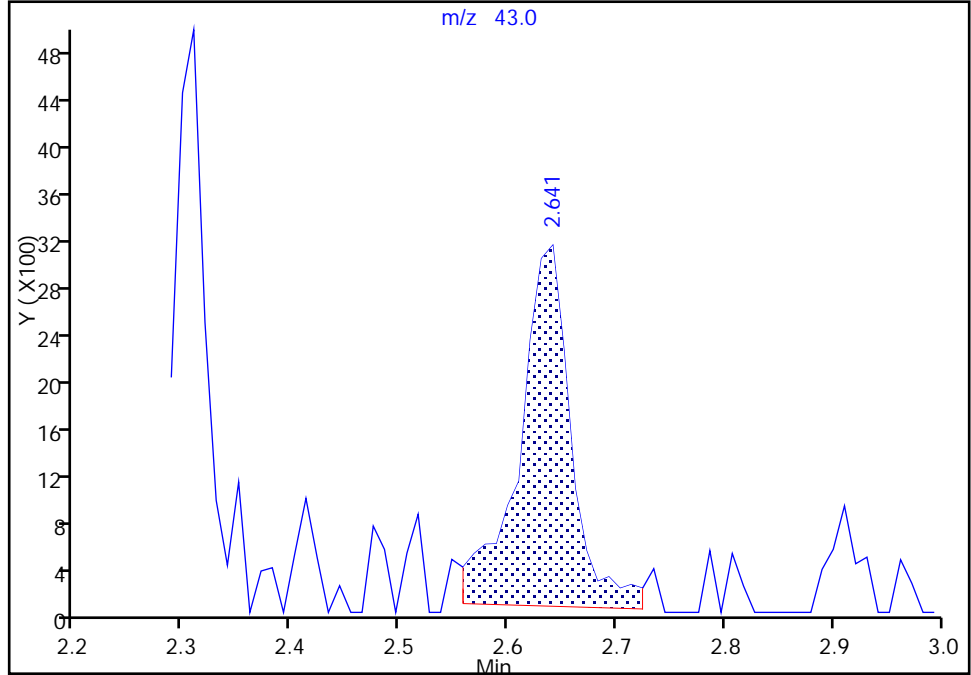
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Injection Date: 31-Oct-2017 17:55:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-1 Lab Sample ID: 480-126300-1
Client ID: ML-2S
Operator ID: RR ALS Bottle#: 25 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

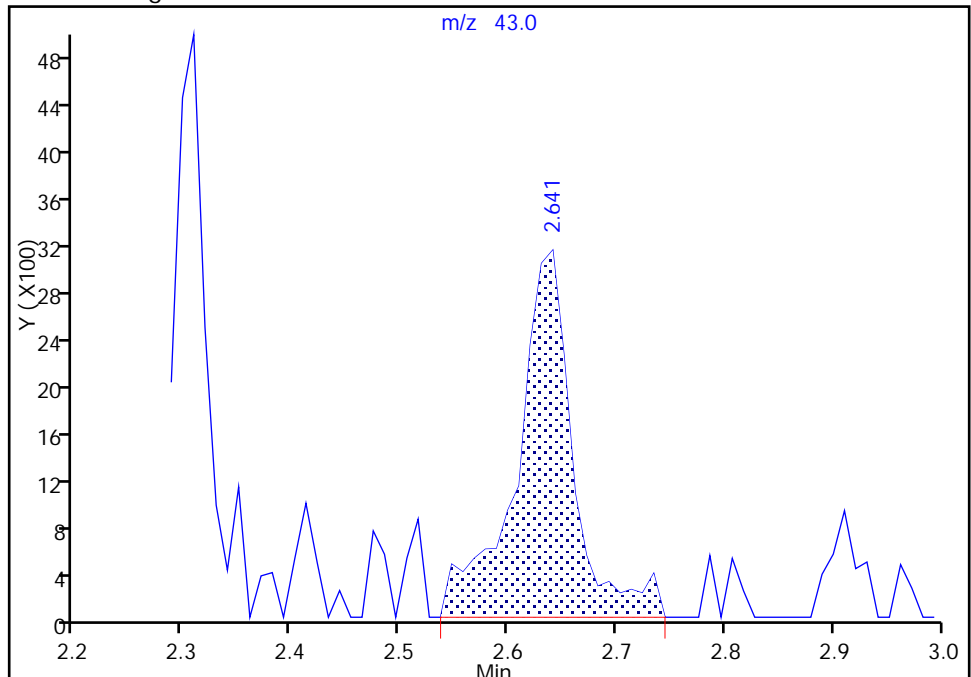
RT: 2.64
Area: 10361
Amount: 2.948261
Amount Units: ug/L

Processing Integration Results



RT: 2.64
Area: 11423
Amount: 3.250457
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 31-Oct-2017 18:25:53
Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

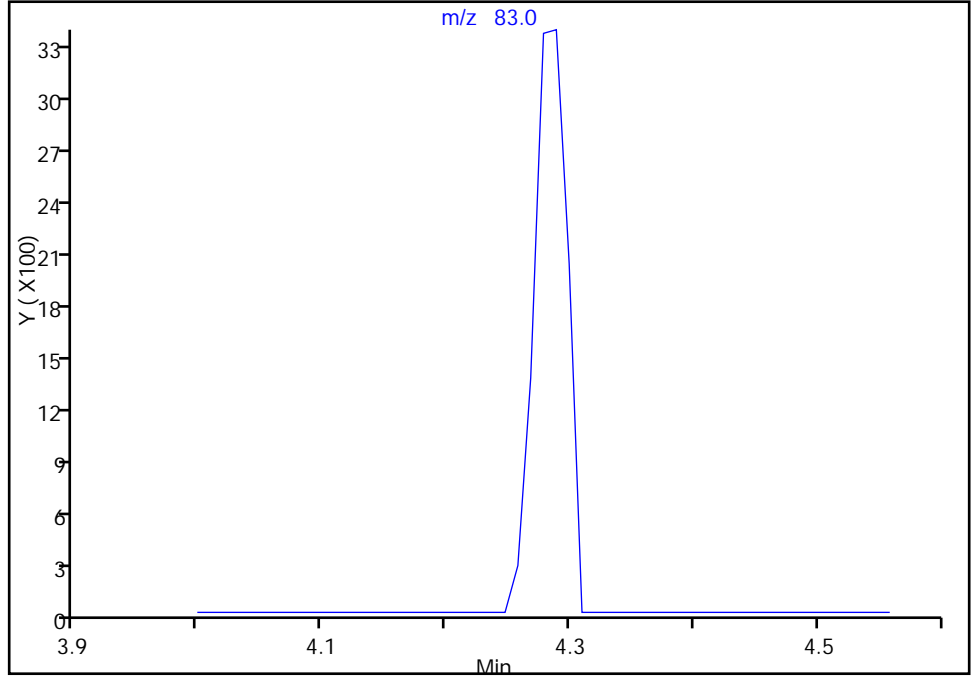
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D
Injection Date: 31-Oct-2017 17:55:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-1 Lab Sample ID: 480-126300-1
Client ID: ML-2S
Operator ID: RR ALS Bottle#: 25 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

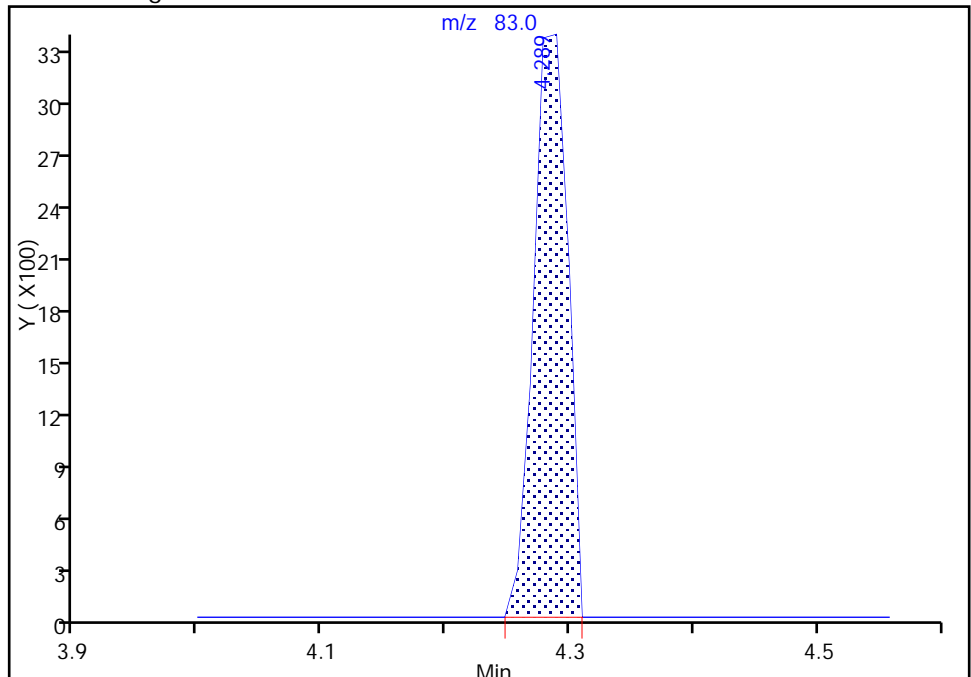
Signal: 1

Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results



RT: 4.29
Area: 6442
Amount: 0.412186
Amount Units: ug/L

Reviewer: sonkera, 31-Oct-2017 18:26:20
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

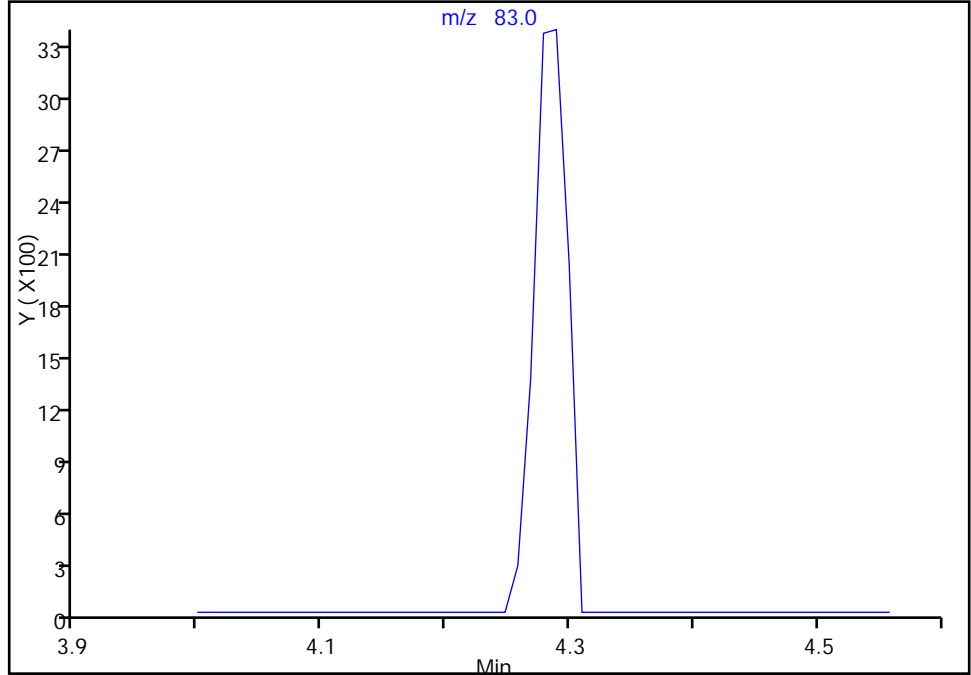
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D
Injection Date: 31-Oct-2017 17:55:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-1 Lab Sample ID: 480-126300-1
Client ID: ML-2S
Operator ID: RR ALS Bottle#: 25 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

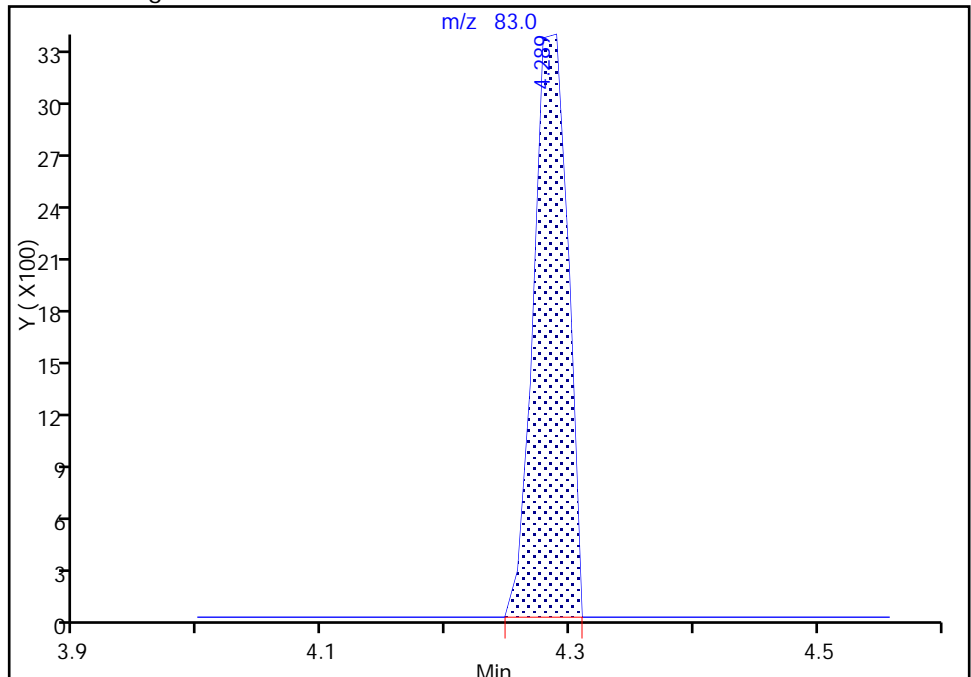
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 6442
Amount: 0.412186
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 18:26:24

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1196.D

Injection Date: 31-Oct-2017 17:55:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-1

Lab Sample ID: 480-126300-1

Client ID: ML-2S

Operator ID: RR

ALS Bottle#: 25 Worklist Smp#: 35

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

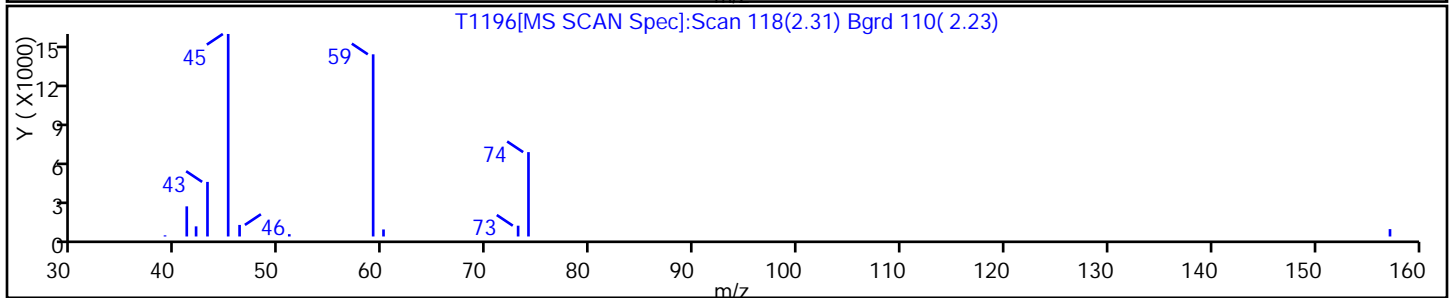
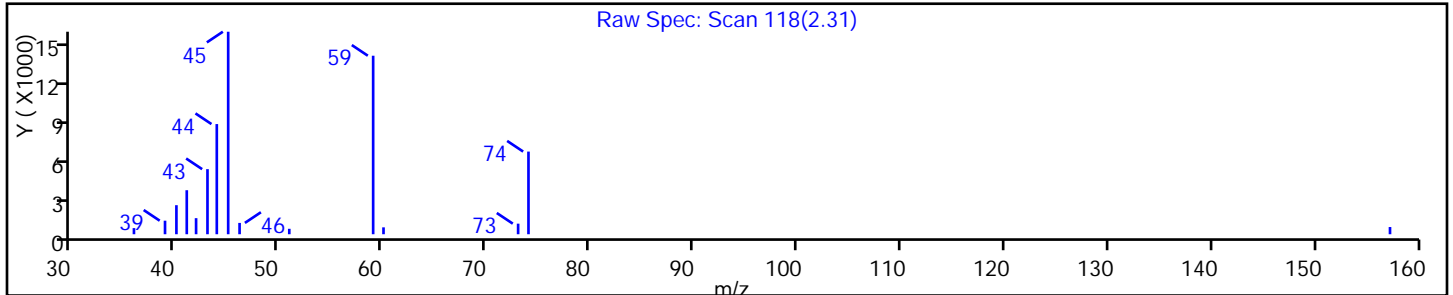
Method: T-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-126300-2
 Matrix: Water Lab File ID: T1193.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 16:43
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	480		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	650		100	31
75-34-3	1,1-Dichloroethane	870		100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	F1	500	210
67-64-1	Acetone	ND		1000	300
71-43-2	Benzene	ND		100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	ND		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	3000		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND	F1	100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-126300-2
 Matrix: Water Lab File ID: T1193.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 16:43
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	F1 *	250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	170		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	260		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	990		100	90
1330-20-7	Xylenes, Total	ND		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-126300-2
 Matrix: Water Lab File ID: T1193.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 16:43
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D
 Lims ID: 480-126300-E-2
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 31-Oct-2017 16:43:30 ALS Bottle#: 22 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-126300-e-2
 Misc. Info.: 480-0066859-028
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 19:33:19 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: HillL

Date: 10-Jan-2018 11:36:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	96	170079	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	564446	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	257679	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	204008	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	275727	23.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	97	724688	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	-0.001	79	167969	23.7	
11 Dichlorodifluoromethane	85		1.242				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62	1.491	1.501	-0.010	97	157816	9.93	
15 Bromomethane	94		1.792				ND	
16 Chloroethane	64	1.843	1.854	-0.011	51	2074	0.2954	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96	2.517	2.517	0.000	10	1796	0.2539	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	95	48370	6.54	
23 Acetone	43	2.620	2.631	-0.011	8	3076	0.8967	
25 Carbon disulfide	76	2.693	2.703	-0.010	74	1559	0.0569	7
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73		3.180				ND	
32 trans-1,2-Dichloroethene	96	3.180	3.191	-0.011	50	1806	0.2162	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	172677	8.71	
43 cis-1,2-Dichloroethene	96	4.019	4.030	-0.011	87	300470	30.1	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83		4.279				ND	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	91	59050	4.79	
52 Cyclohexane	56		4.382				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	39	12097	0.3547	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95	5.139	5.139	0.000	92	22744	2.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92	6.102	6.103	-0.001	95	35667	1.68	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166	6.496	6.496	0.000	51	1748	0.2361	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91	7.253	7.253	0.000	97	8448	0.2050	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	3735	0.2609	
91 o-Xylene	106	7.667	7.667	0.000	93	5660	0.3961	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105		7.947				ND	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.040				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		0.6570	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Worklist Smp#: 28

Client ID: ML-2I

Purge Vol: 5.000 mL

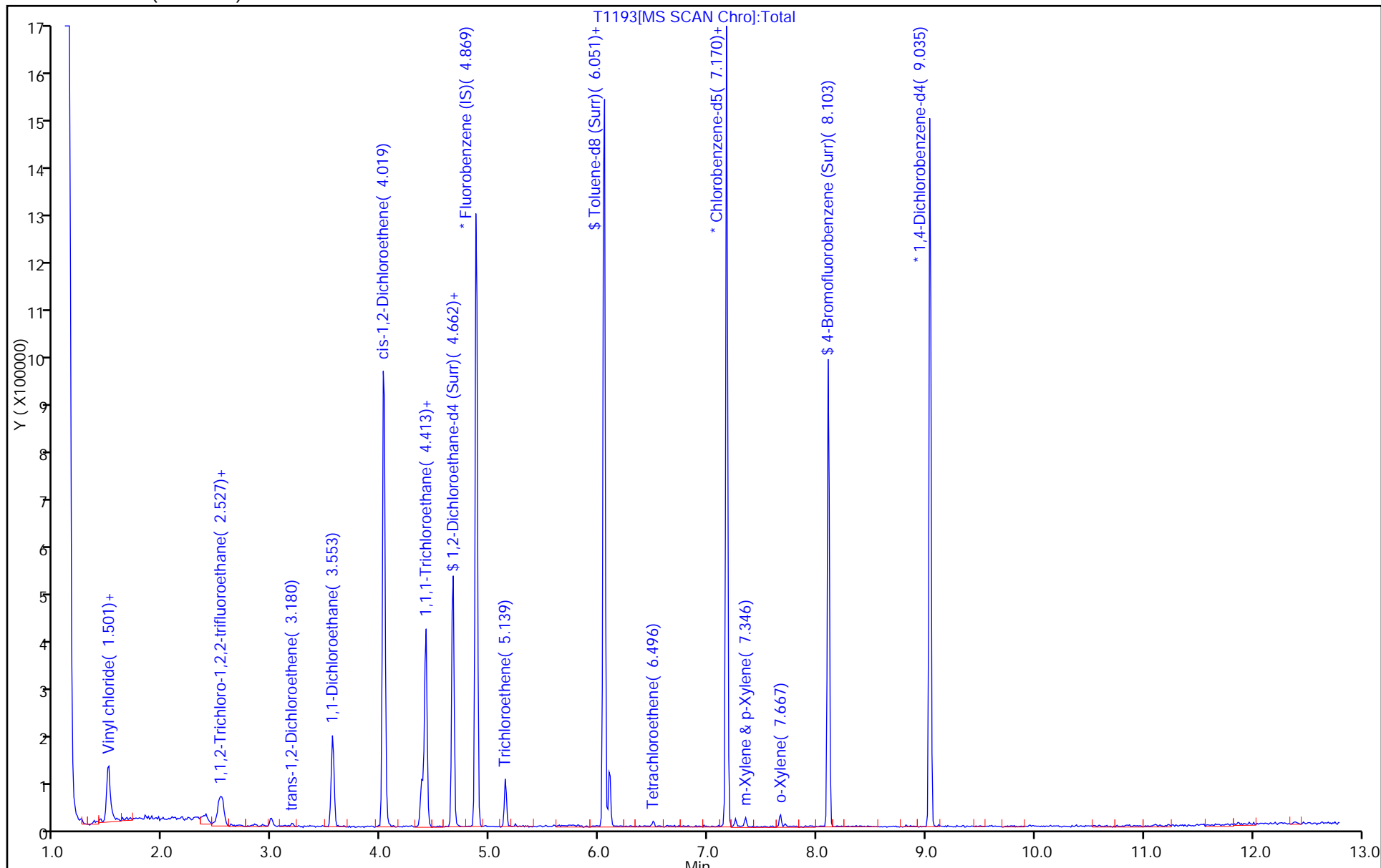
Dil. Factor: 100.0000

ALS Bottle#: 22

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Client ID: ML-2I

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

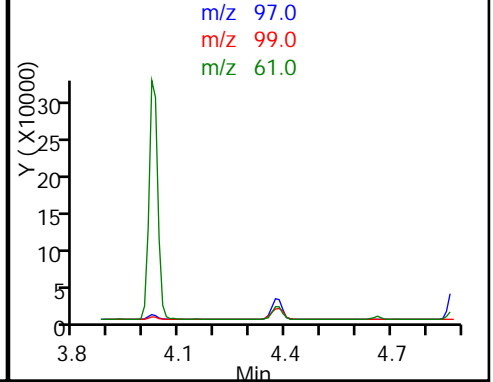
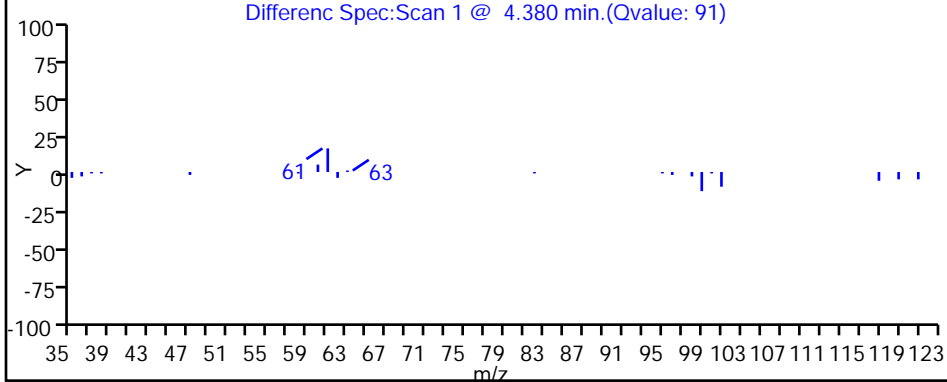
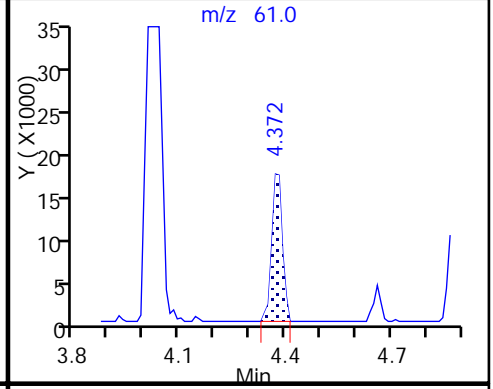
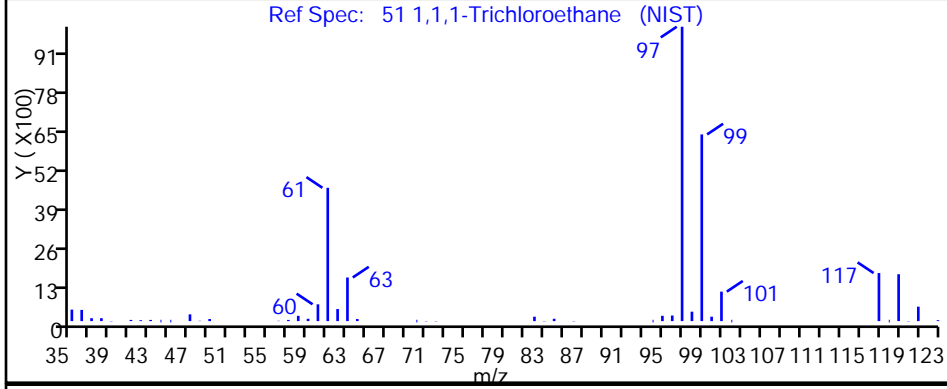
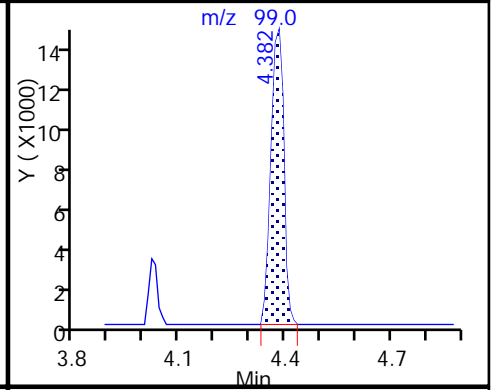
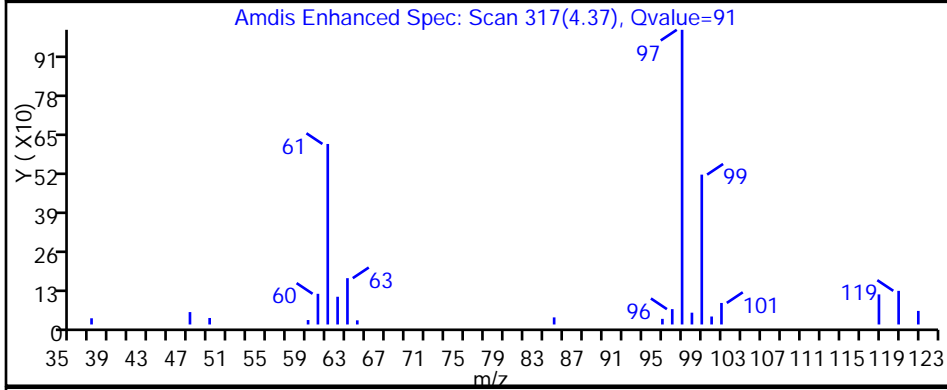
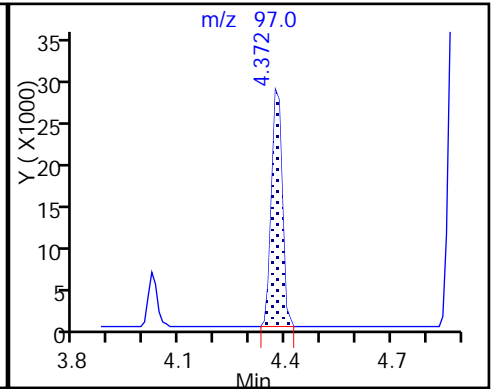
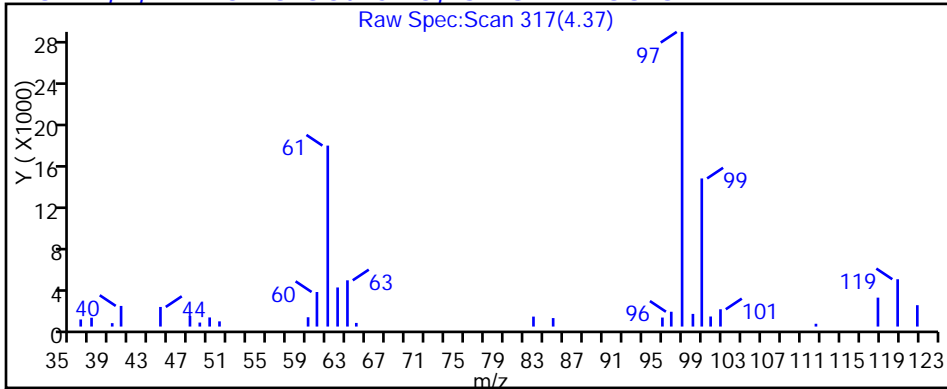
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Client ID: ML-2I

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

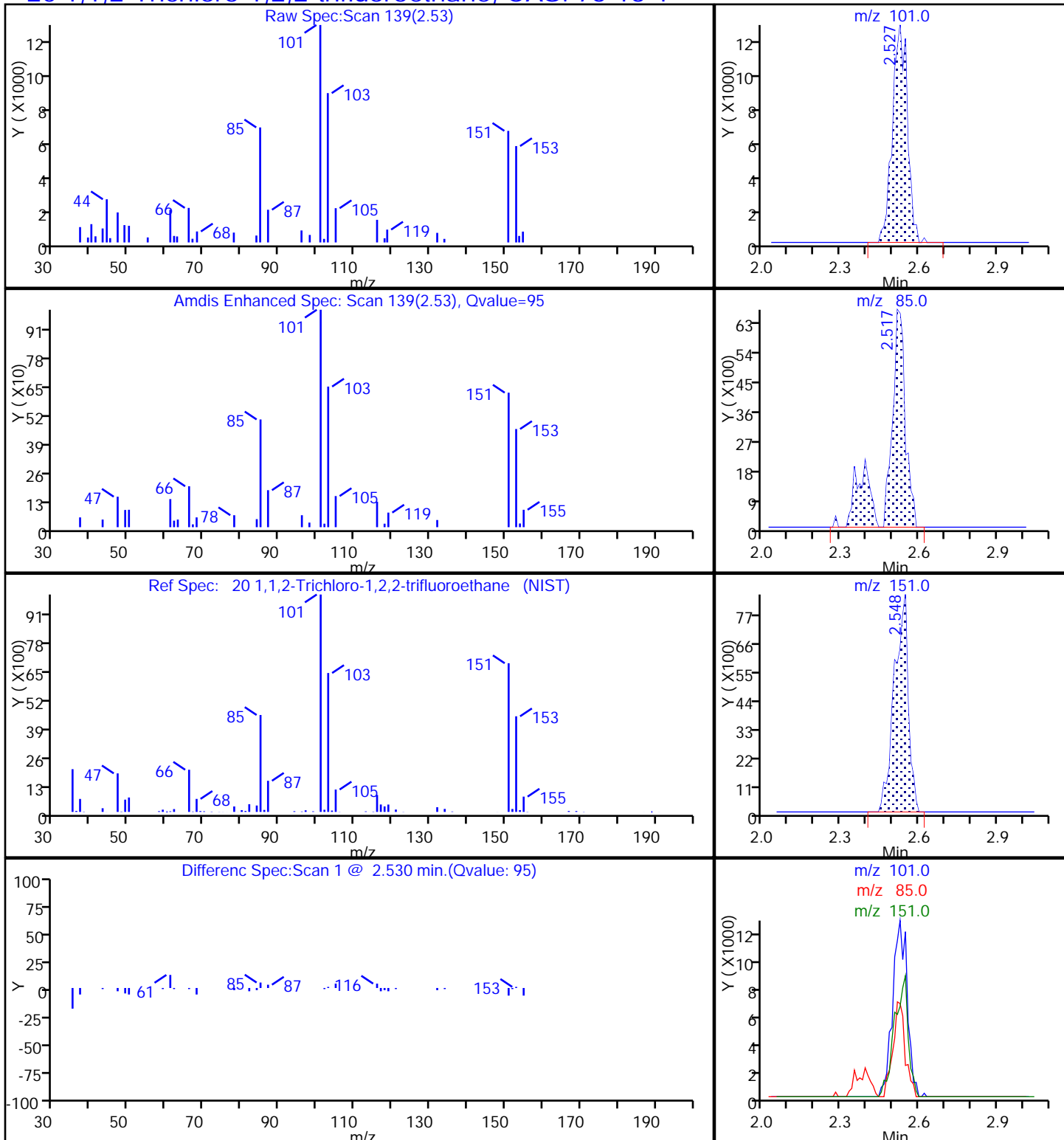
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Client ID: ML-2I

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

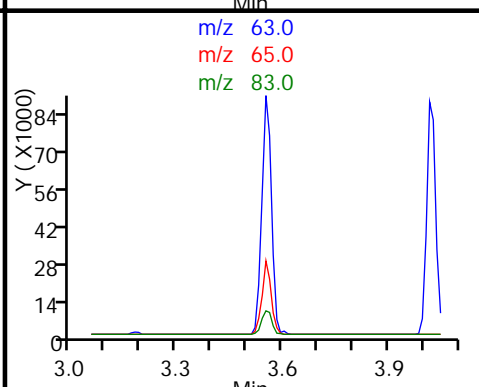
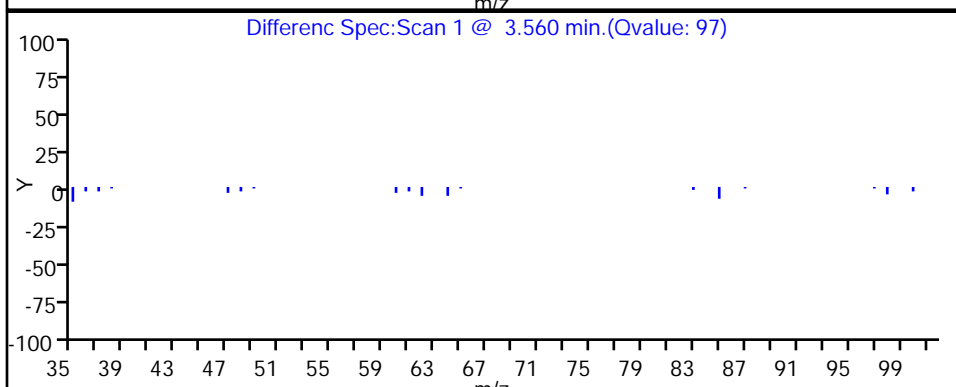
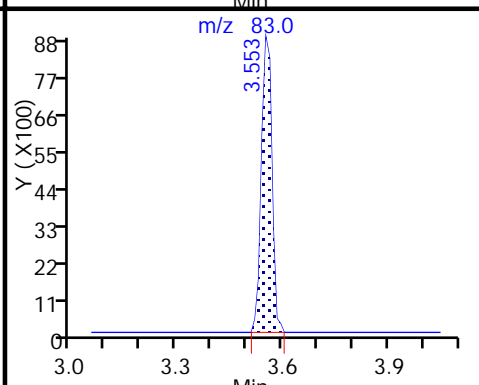
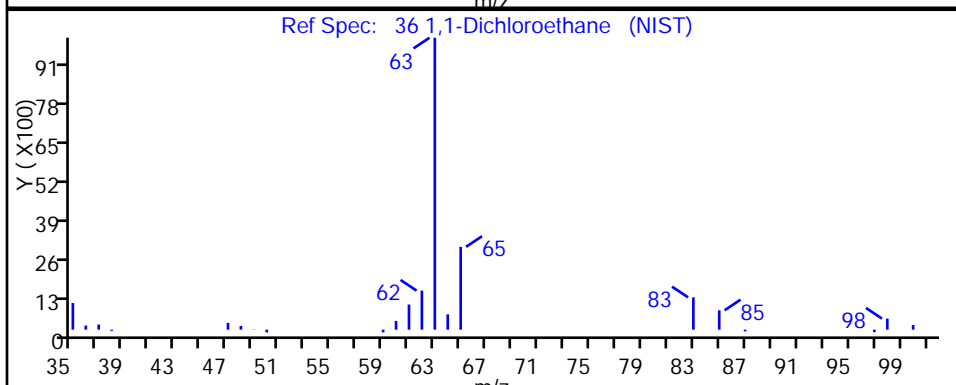
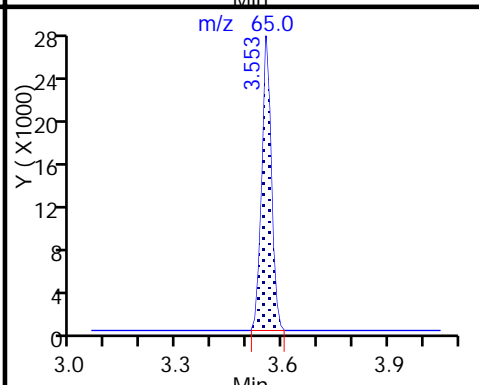
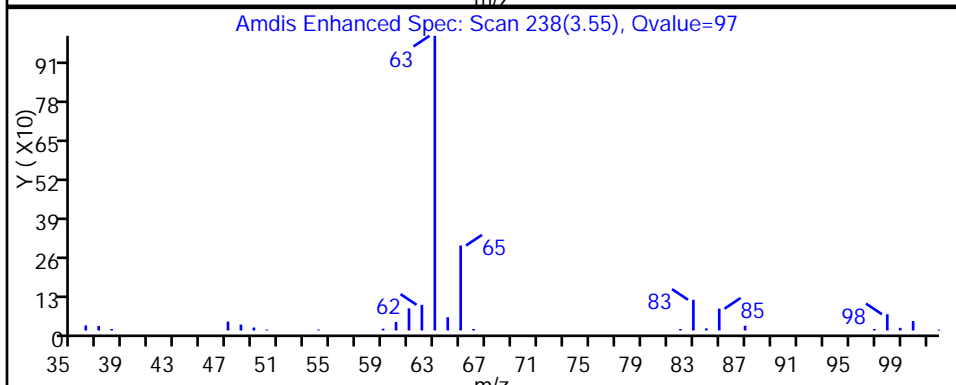
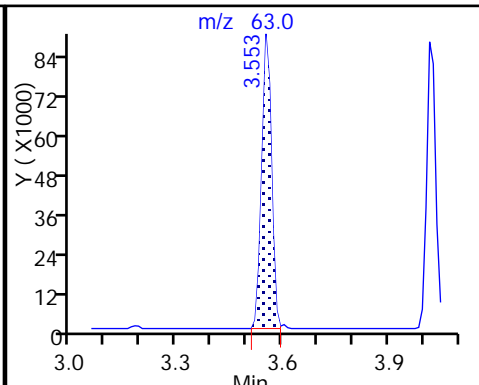
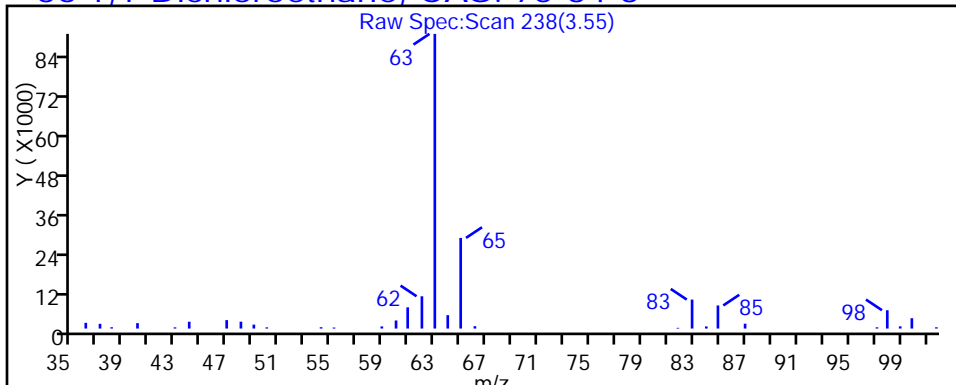
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Client ID: ML-2I

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

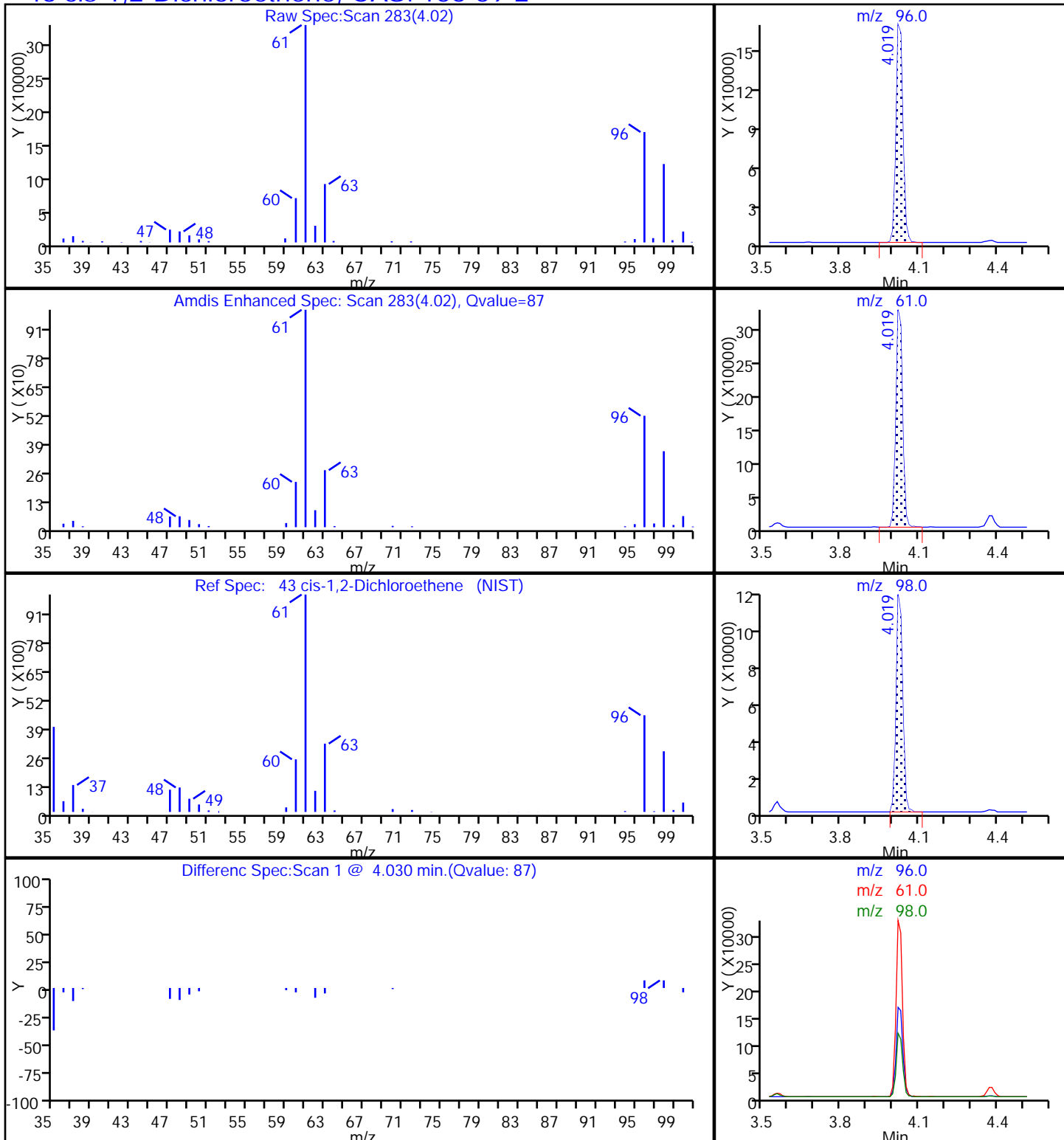
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Client ID: ML-2I

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

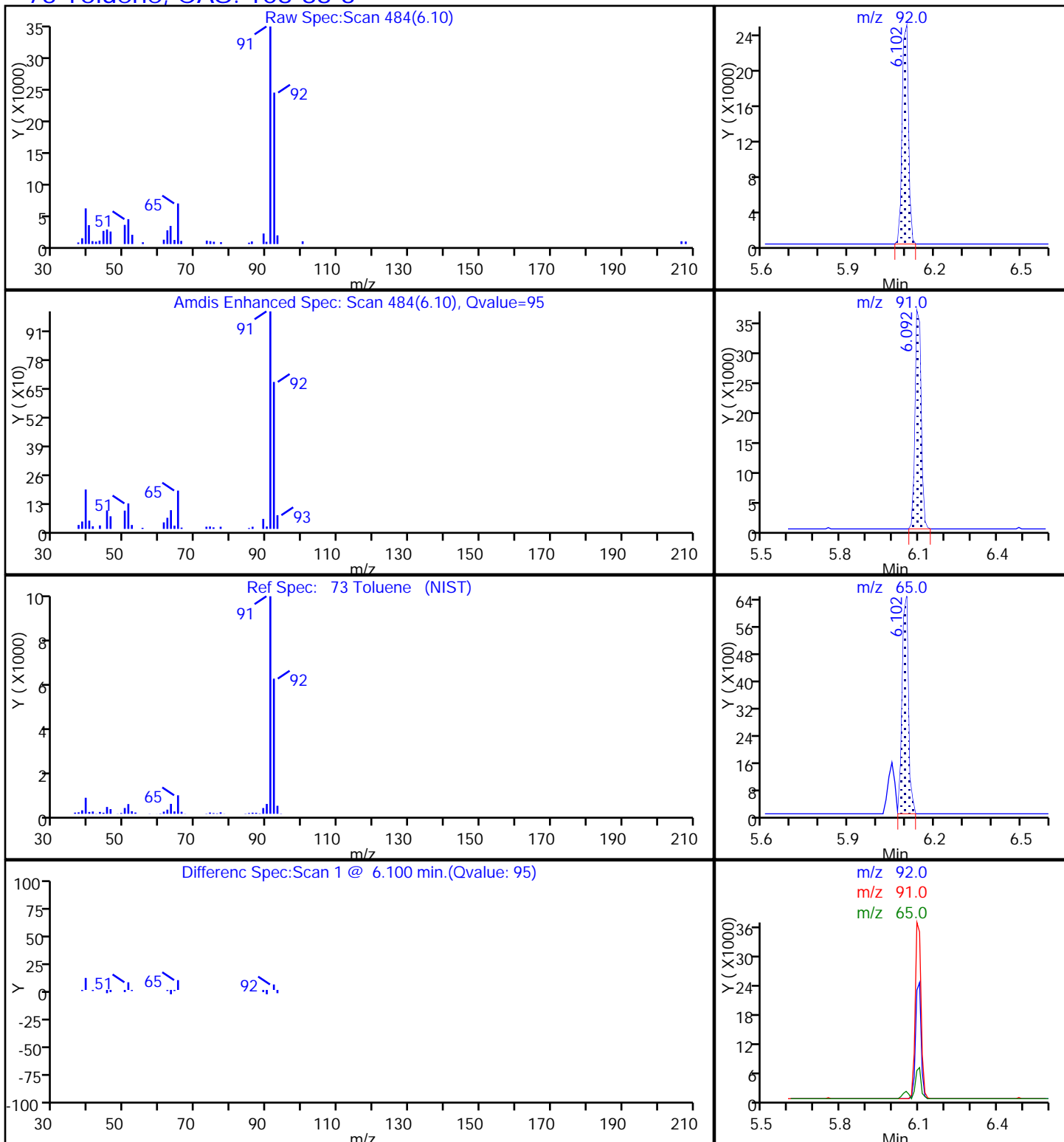
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1193.D

Injection Date: 31-Oct-2017 16:43:30

Instrument ID: HP5975T

Lims ID: 480-126300-E-2

Lab Sample ID: 480-126300-2

Client ID: ML-2I

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

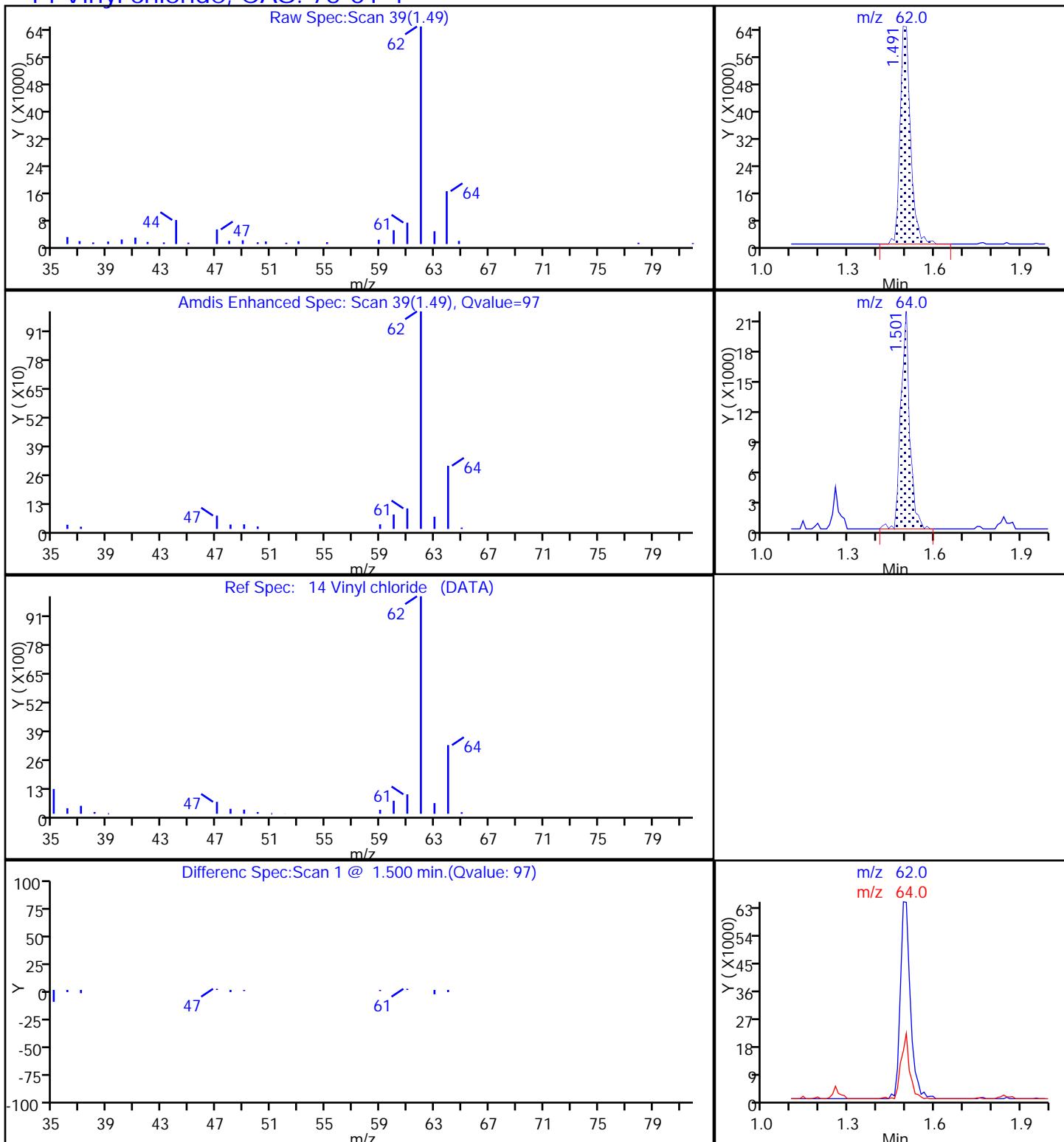
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-126300-3
 Matrix: Water Lab File ID: T1194.D
 Analysis Method: 8260C Date Collected: 10/18/2017 15:50
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:07
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	7.0		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.3		2.0	0.62
75-34-3	1,1-Dichloroethane	35		2.0	0.76
75-35-4	1,1-Dichloroethene	1.0	J	2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	2.2		2.0	0.64
67-66-3	Chloroform	1.1	J	2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	71		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-126300-3
 Matrix: Water Lab File ID: T1194.D
 Analysis Method: 8260C Date Collected: 10/18/2017 15:50
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:07
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	0.91	J	2.0	0.72
108-88-3	Toluene	1.4	J	2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	11		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	15		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-126300-3
 Matrix: Water Lab File ID: T1194.D
 Analysis Method: 8260C Date Collected: 10/18/2017 15:50
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:07
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D
 Lims ID: 480-126300-F-3
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 31-Oct-2017 17:07:30 ALS Bottle#: 23 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-126300-e-3
 Misc. Info.: 480-0066859-029
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 19:33:19 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: sonkera

Date: 31-Oct-2017 17:34:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	162141	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	573678	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	266014	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	197757	27.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	273018	24.5	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	97	709211	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	171249	23.8	
11 Dichlorodifluoromethane	85		1.242				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62	1.491	1.501	-0.010	97	113157	7.47	
15 Bromomethane	94		1.792				ND	
16 Chloroethane	64	1.854	1.854	0.000	69	7325	1.09	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96	2.527	2.517	0.010	68	3362	0.4985	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	44	15082	2.14	
23 Acetone	43	2.641	2.631	0.010	84	7222	2.21	
25 Carbon disulfide	76		2.703				ND	
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84	2.994	2.994	0.000	90	12295	0.1215	
33 Methyl tert-butyl ether	73	3.170	3.180	-0.010	1	1247	0.0547	7M
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	88	5977	0.7504	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	327983	17.3	
43 cis-1,2-Dichloroethene	96	4.030	4.030	0.000	87	339272	35.6	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83	4.289	4.279	0.010	1	8281	0.5694	M
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	95	41429	3.52	
52 Cyclohexane	56		4.382				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	39	8585	0.2641	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95	5.139	5.139	0.000	92	44123	5.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92	6.092	6.103	-0.011	94	14776	0.6846	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166	6.507	6.496	0.011	77	3423	0.4548	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91	7.253	7.253	0.000	47	5950	0.1420	
90 m-Xylene & p-Xylene	106	7.336	7.346	-0.010	0	6395	0.4395	
91 o-Xylene	106	7.657	7.667	-0.010	13	1078	0.0742	7
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105	7.947	7.947	0.000	33	3986	0.1111	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.040				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		0.5138	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Worklist Smp#: 29

Client ID: ML-2D

Purge Vol: 5.000 mL

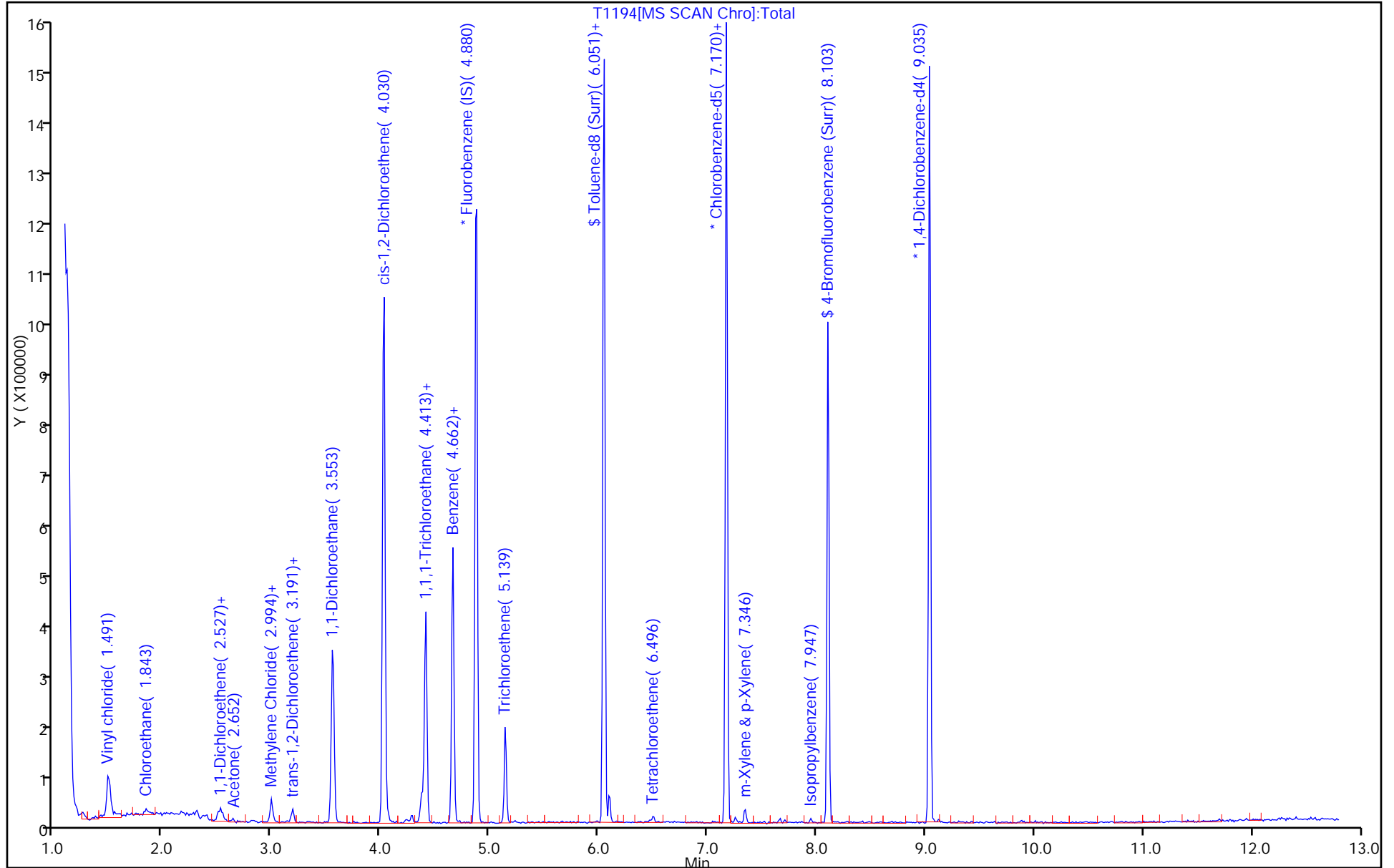
Dil. Factor: 2.0000

ALS Bottle#: 23

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

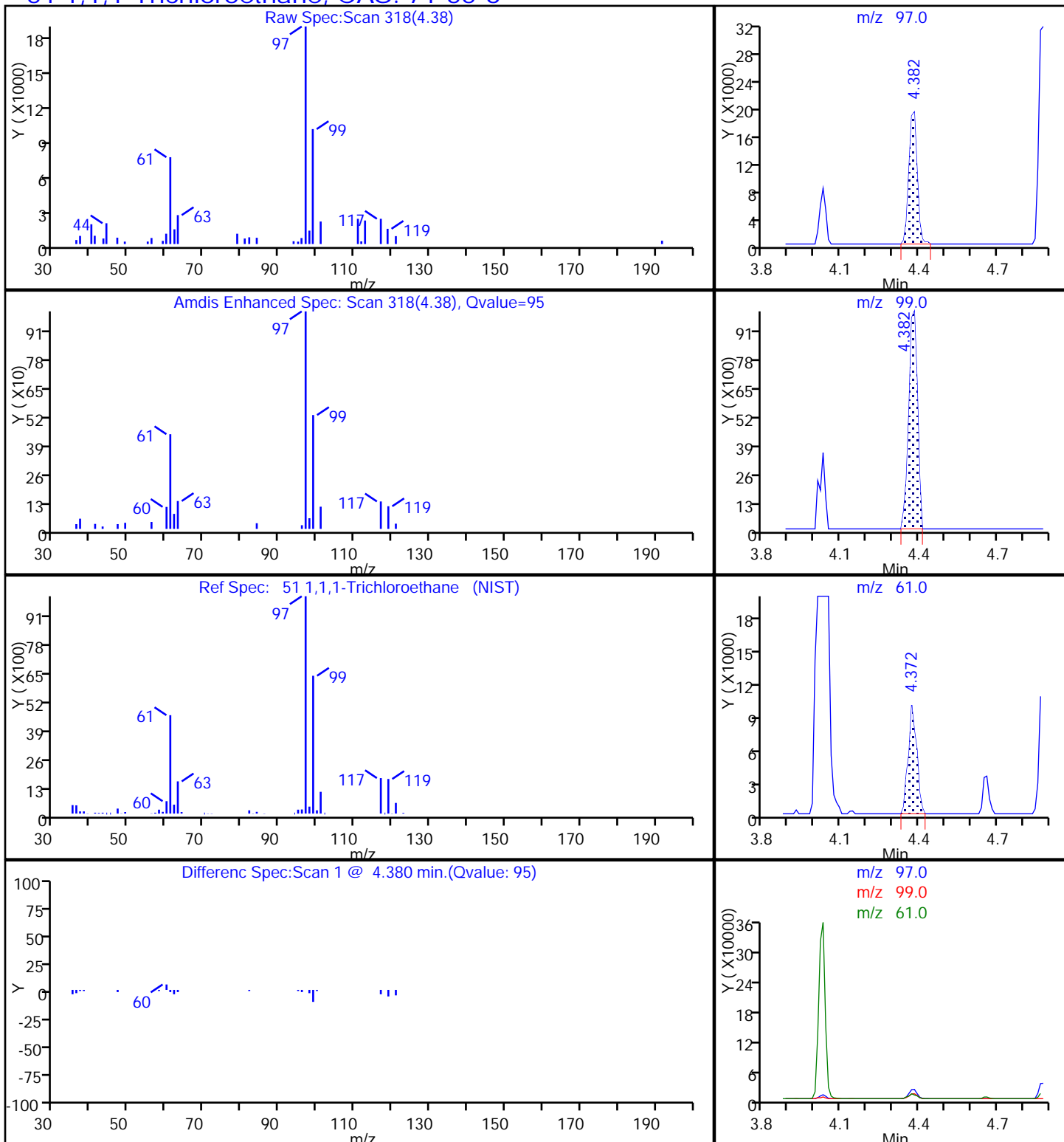
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

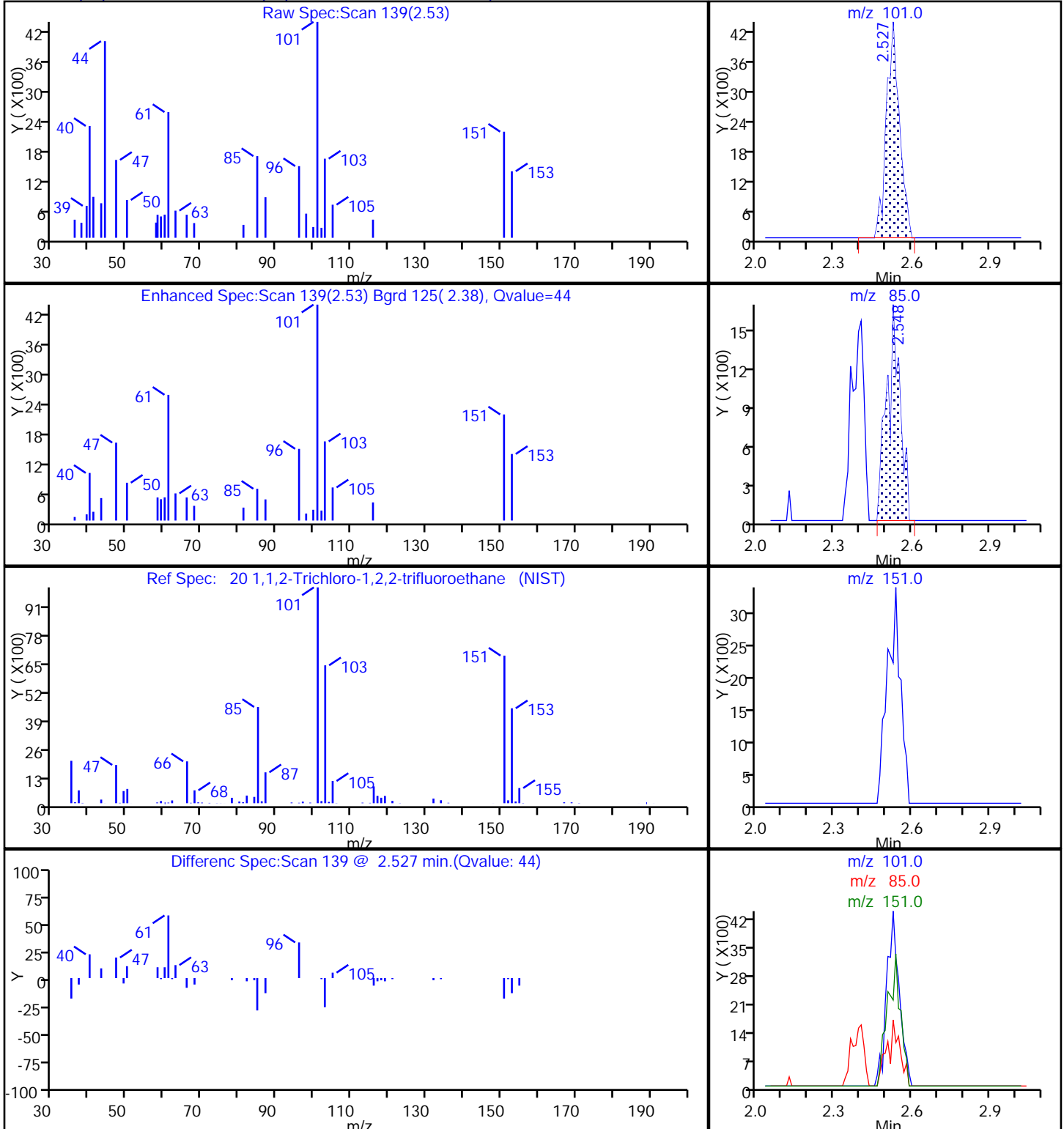
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

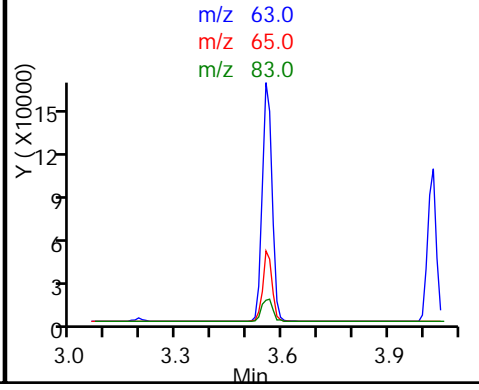
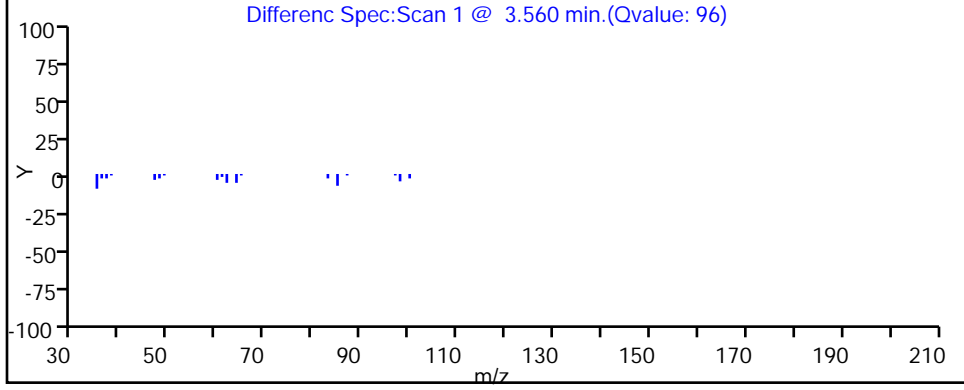
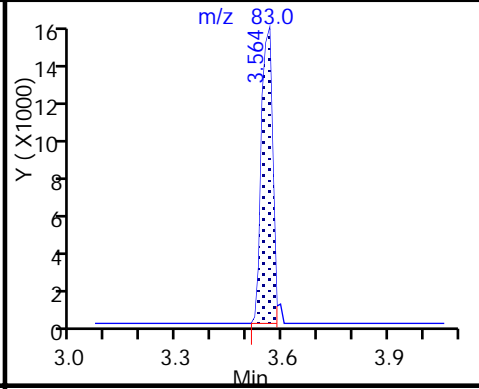
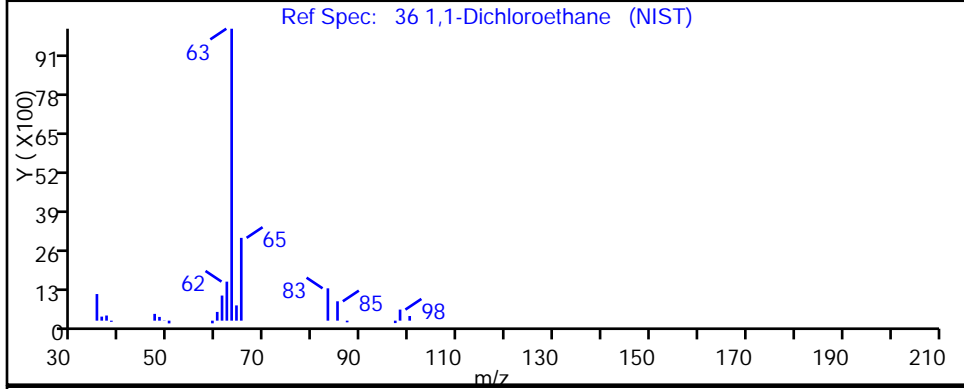
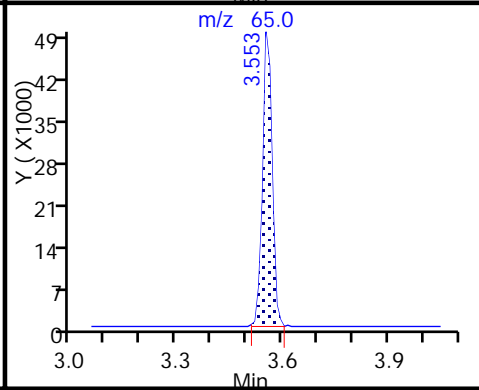
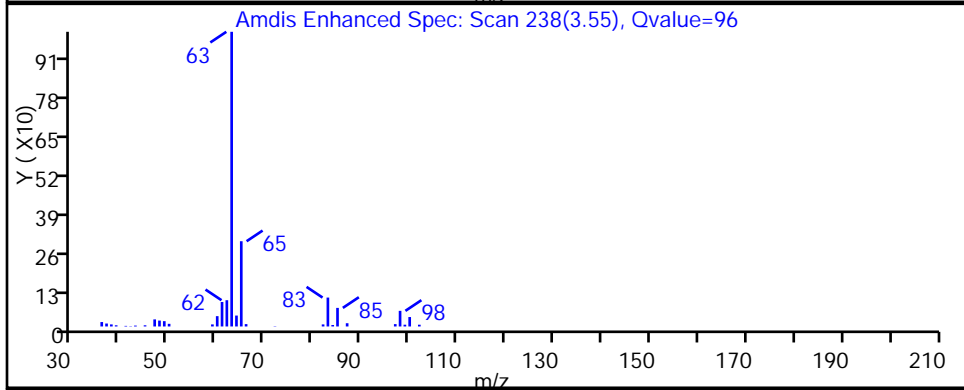
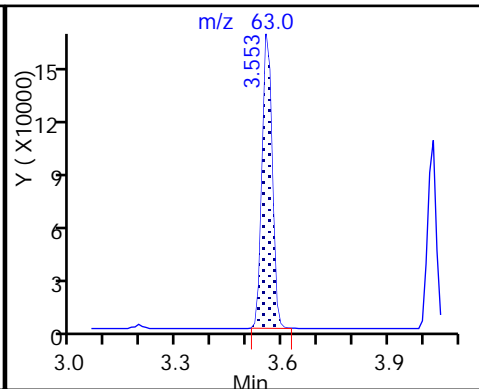
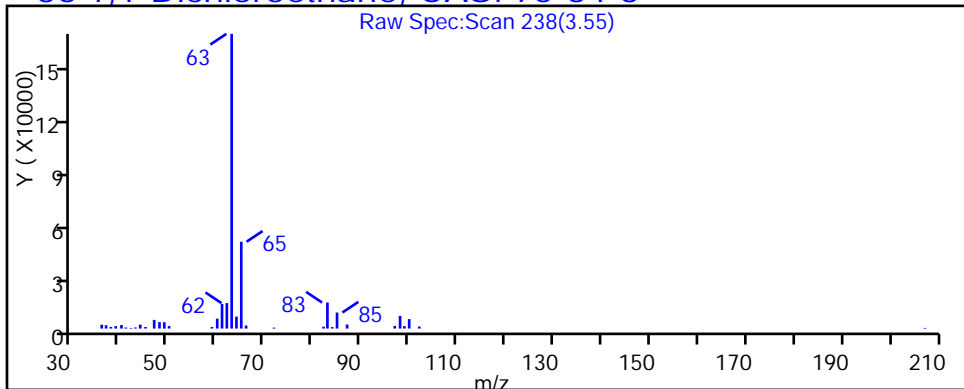
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

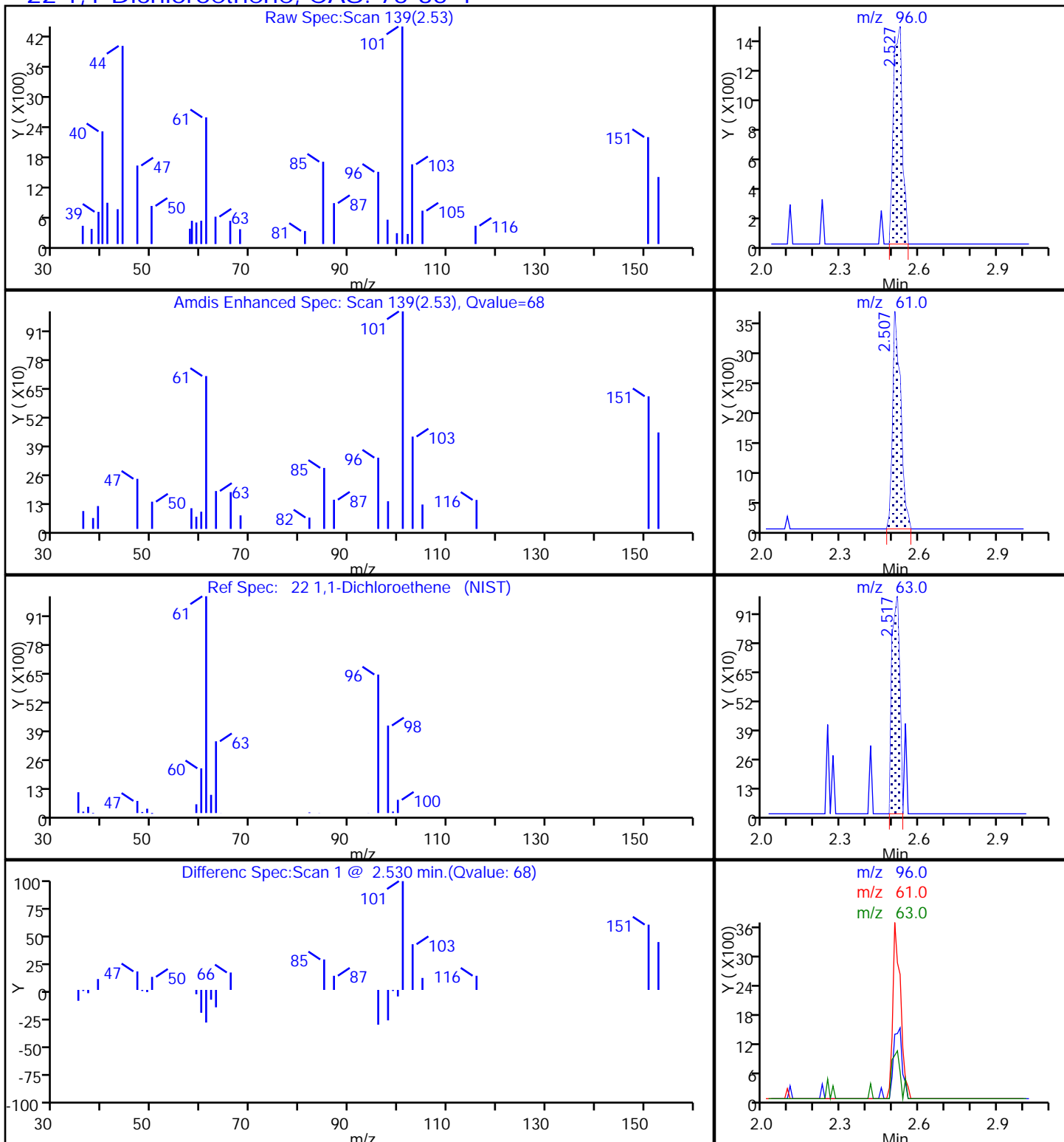
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

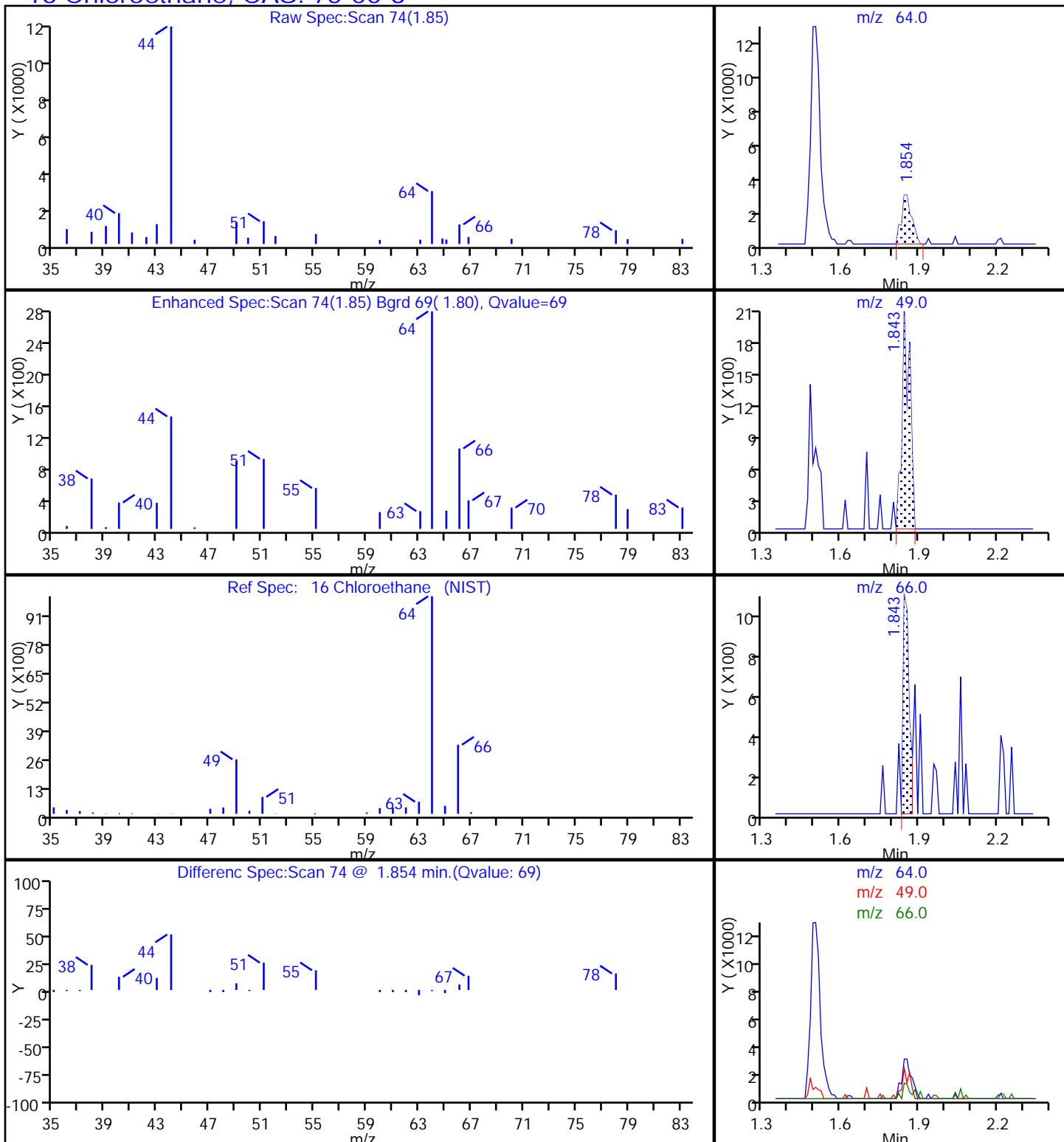
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

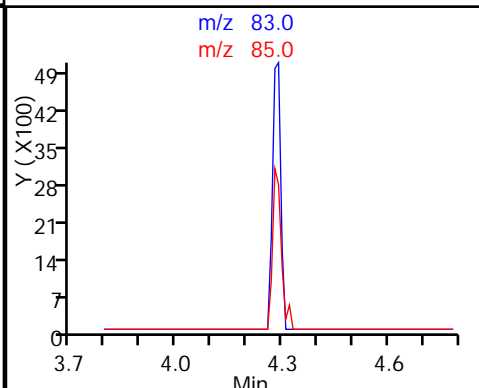
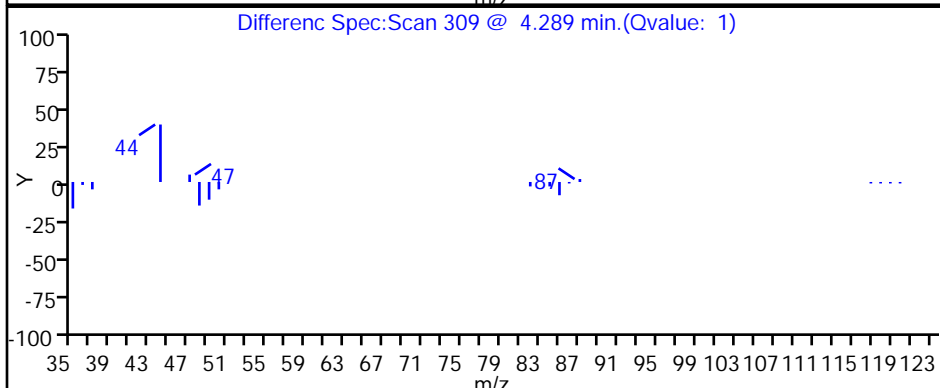
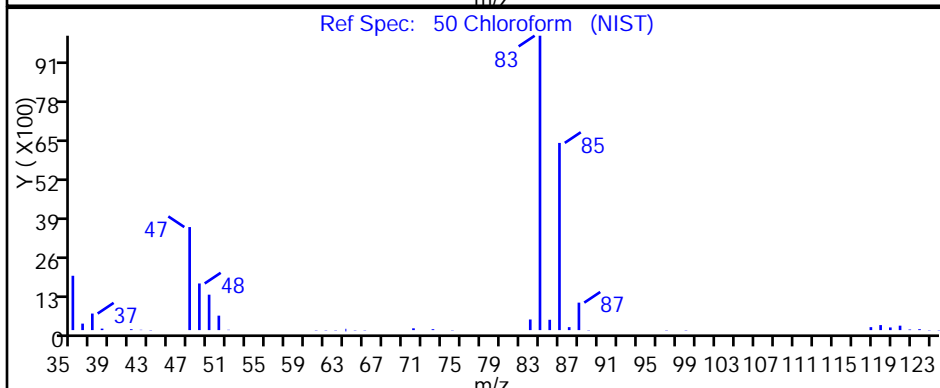
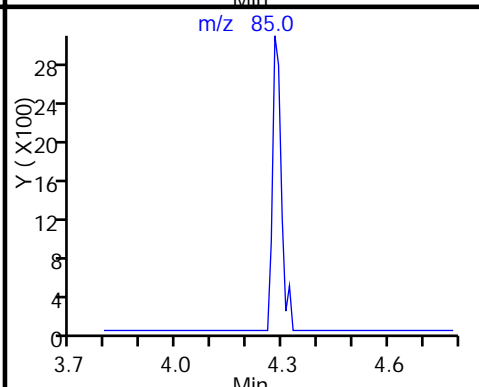
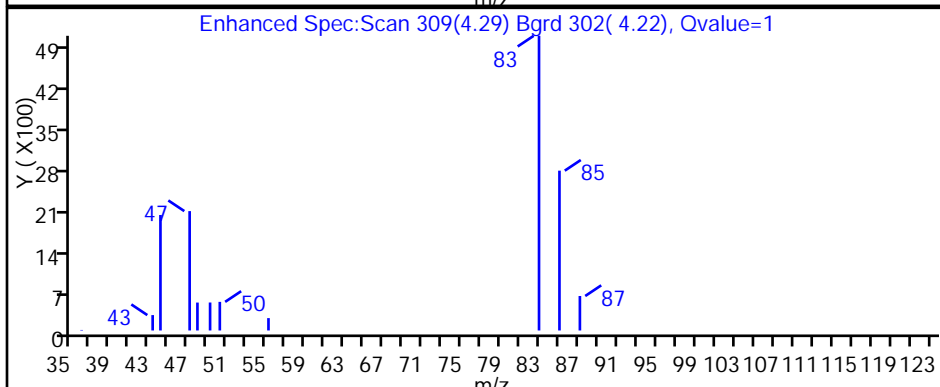
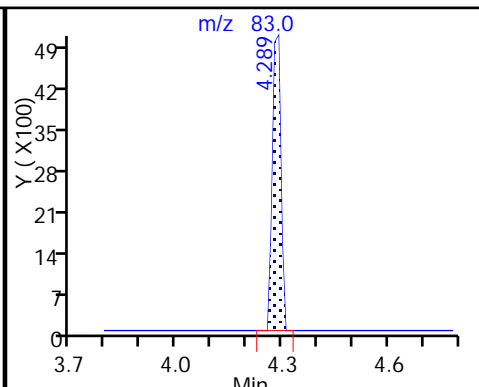
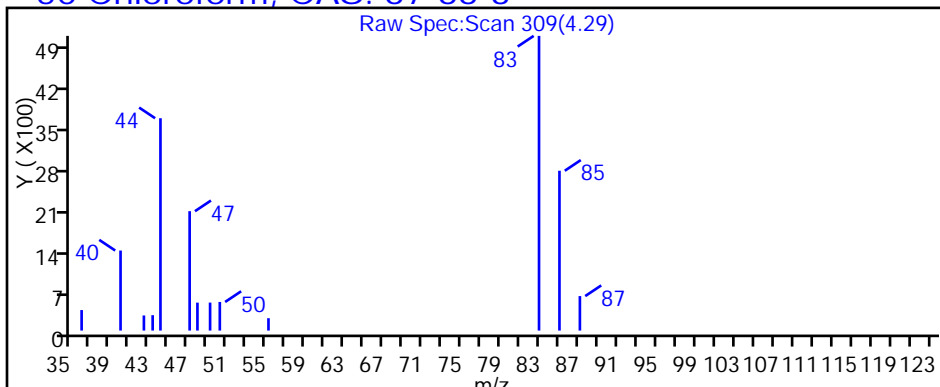
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

50 Chloroform, CAS: 67-66-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

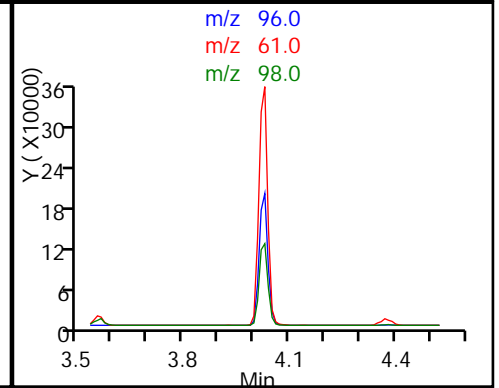
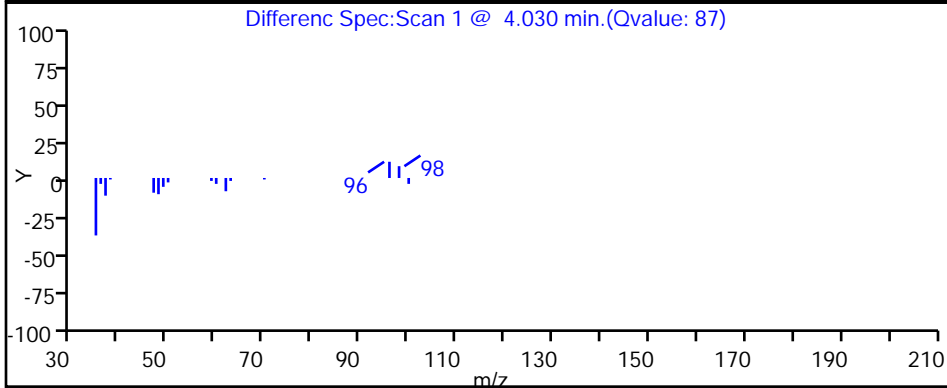
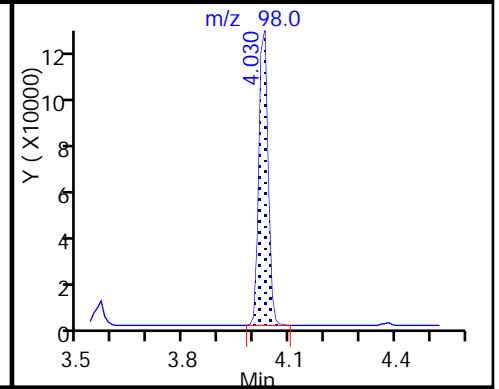
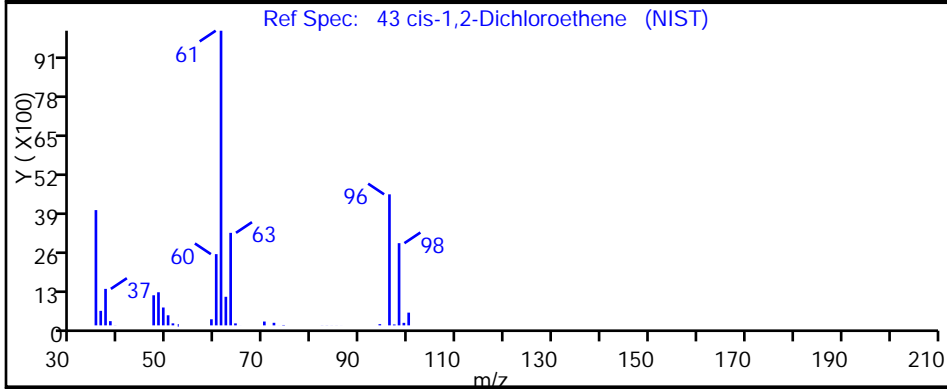
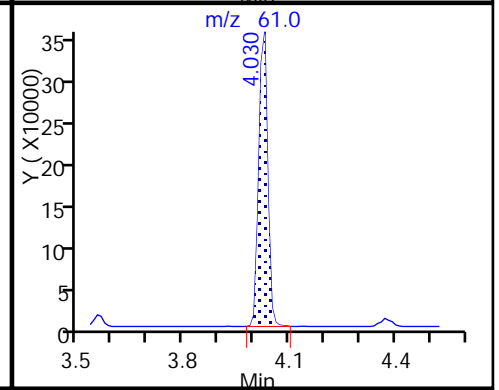
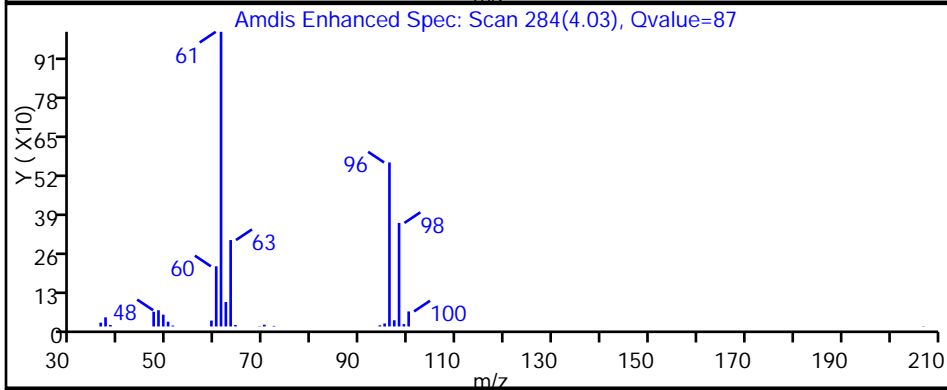
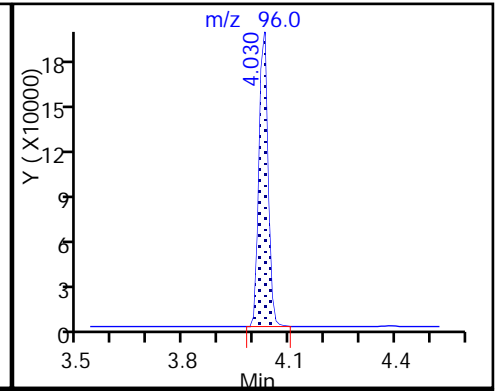
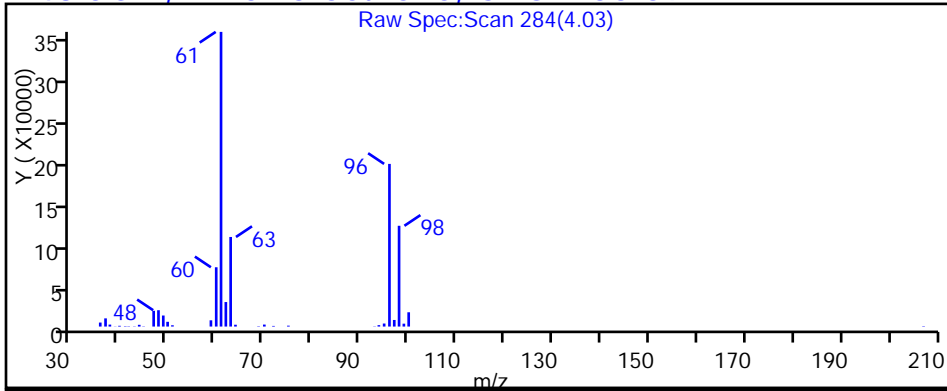
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

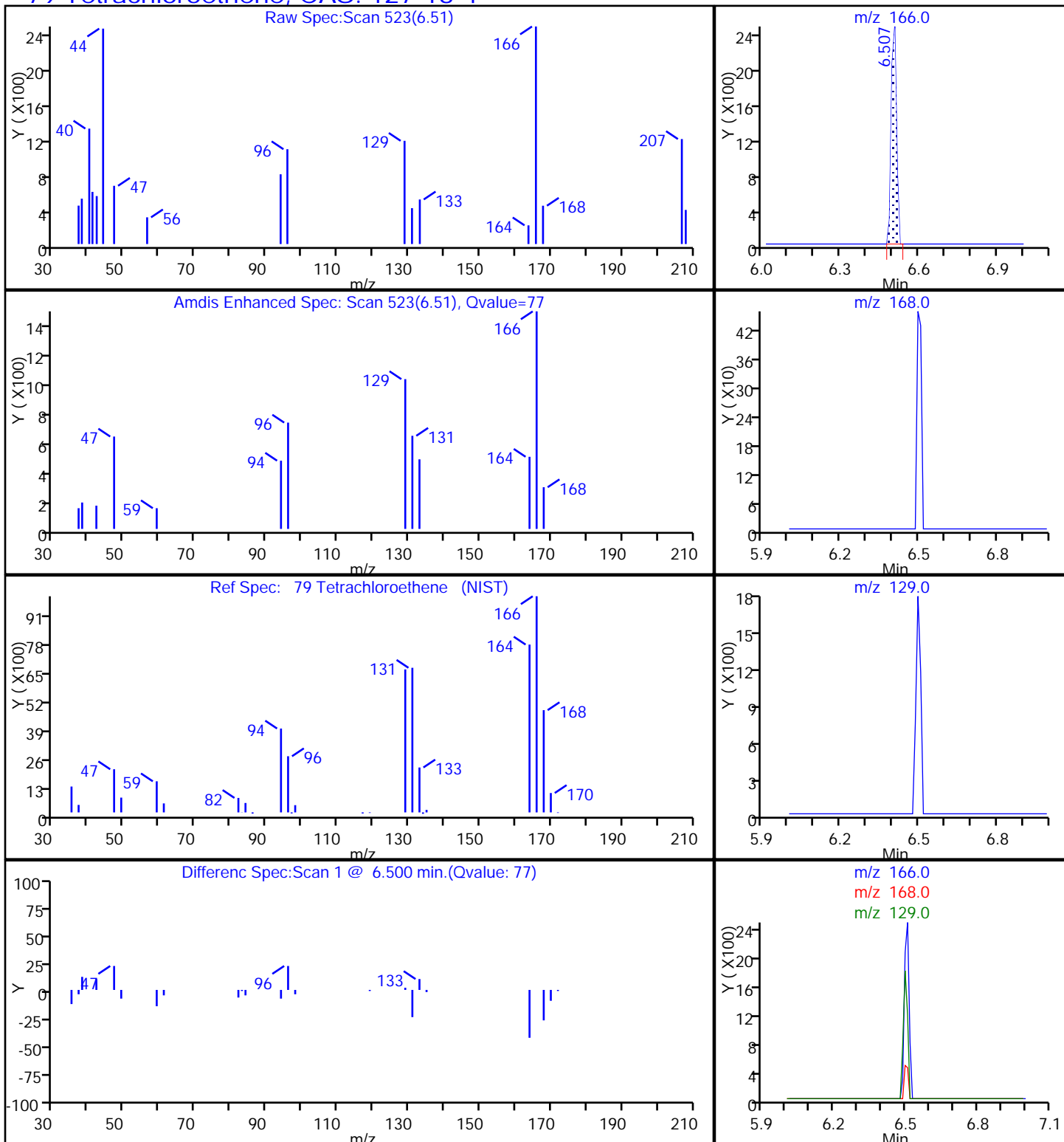
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

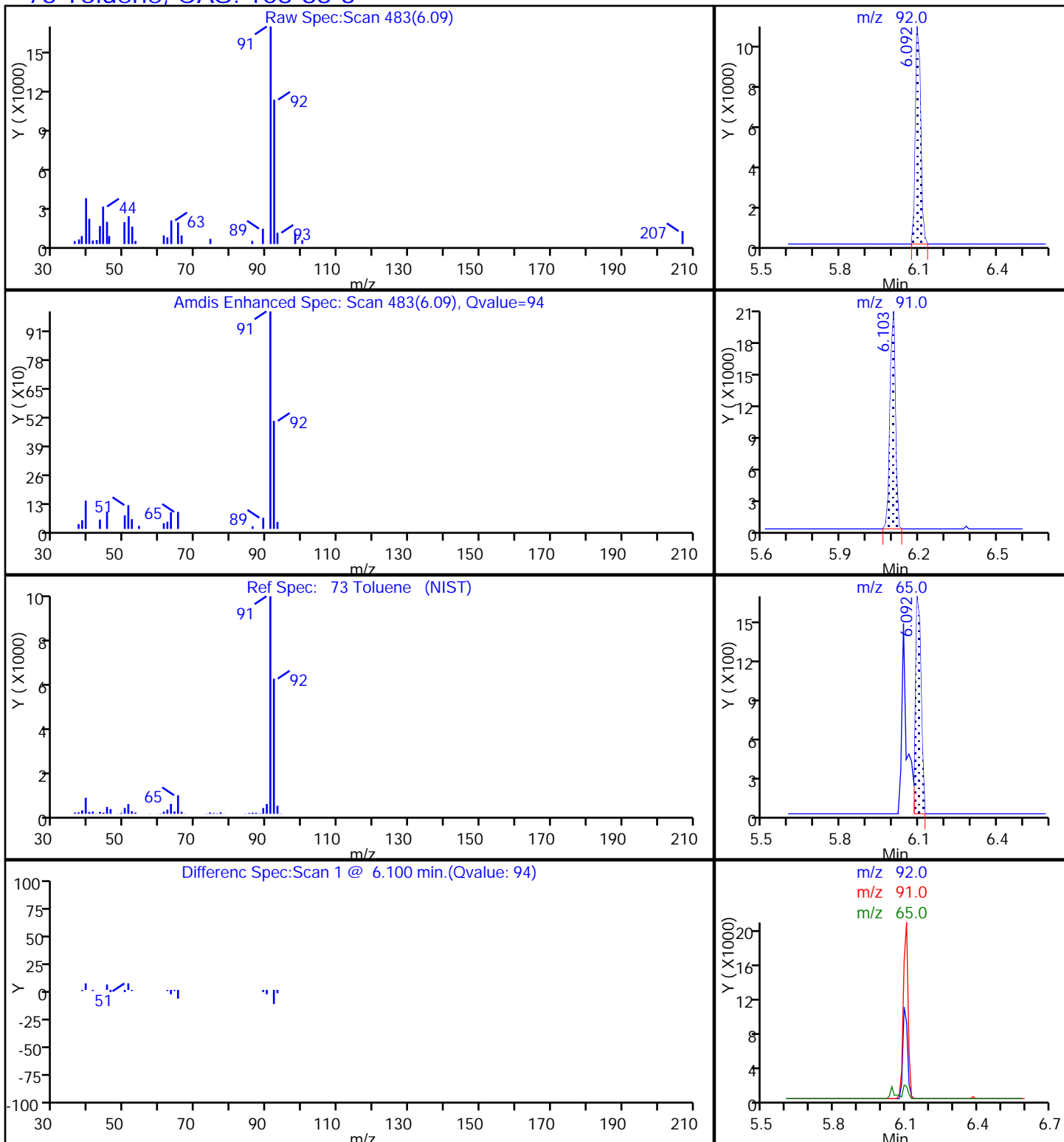
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

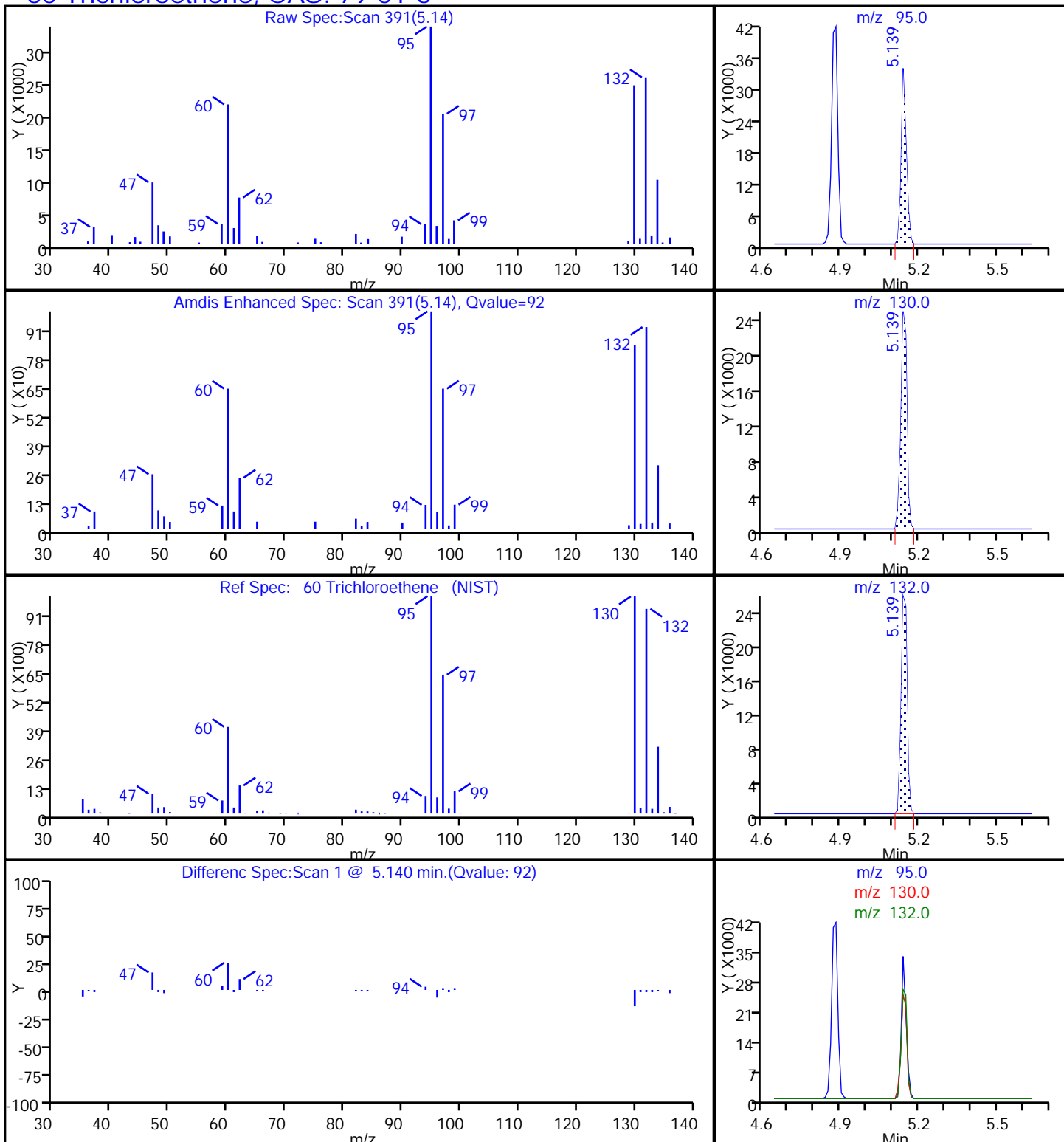
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D

Injection Date: 31-Oct-2017 17:07:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-3

Lab Sample ID: 480-126300-3

Client ID: ML-2D

Operator ID: RR

ALS Bottle#: 23

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

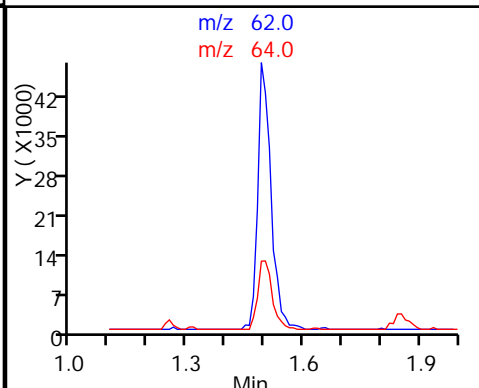
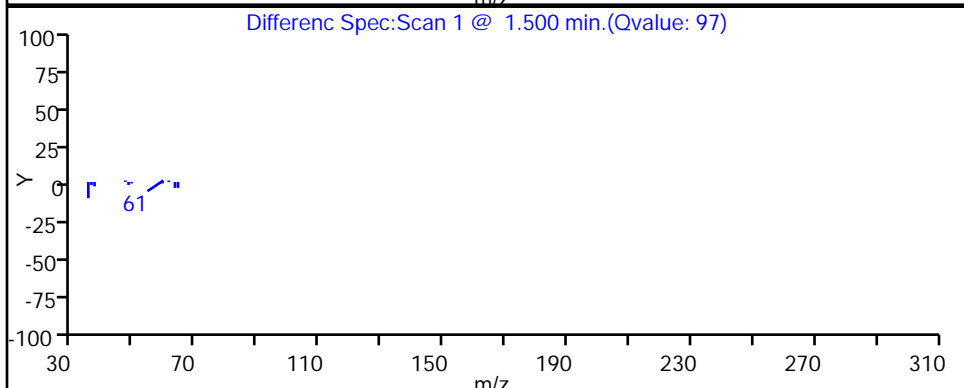
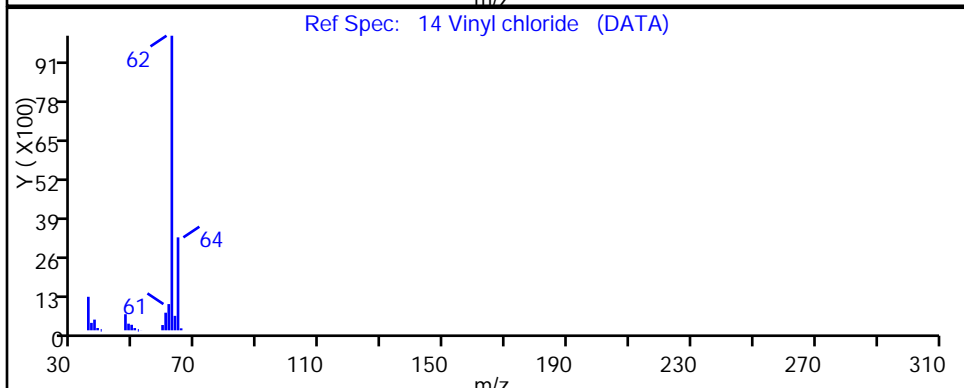
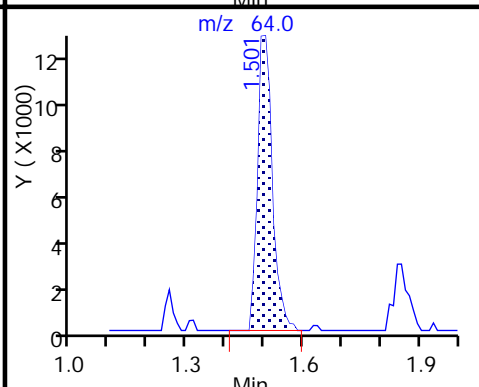
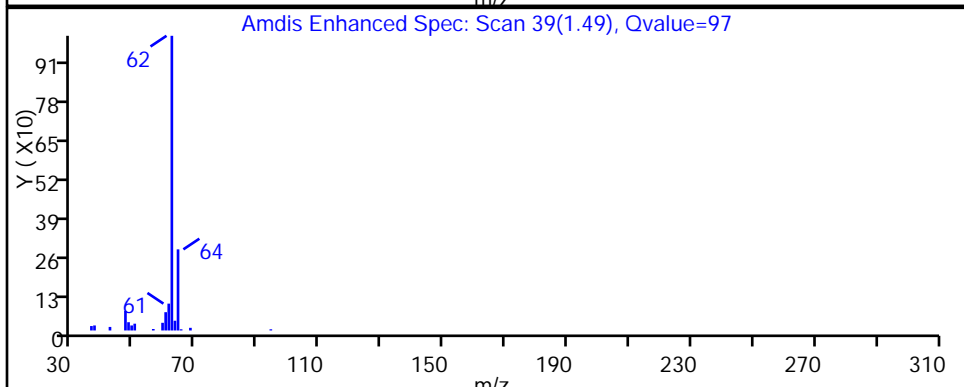
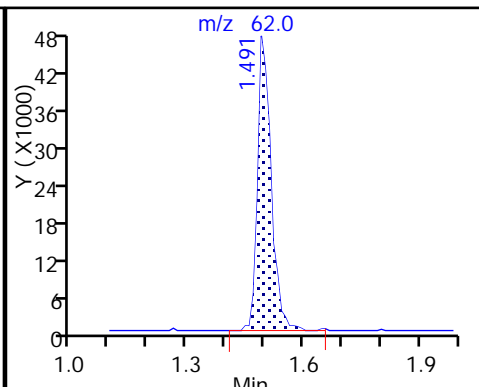
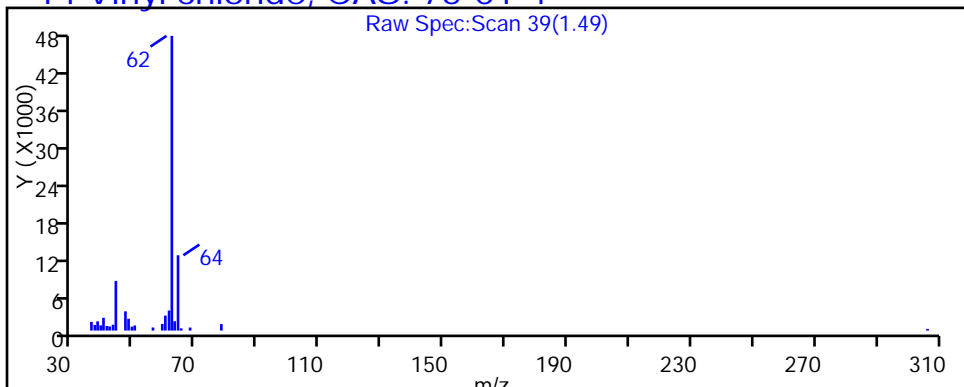
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

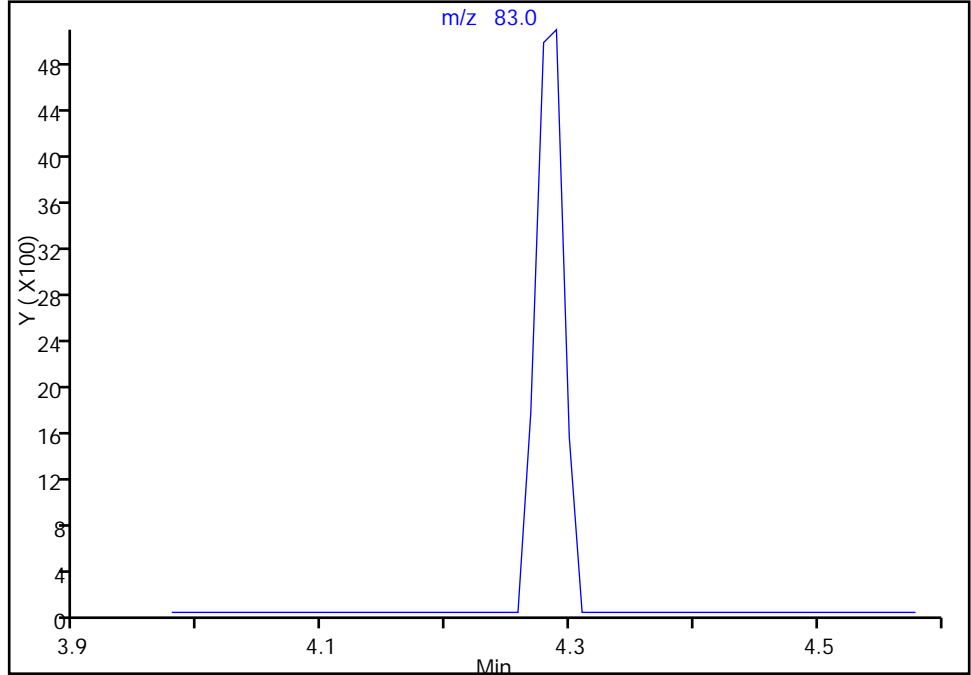
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D
Injection Date: 31-Oct-2017 17:07:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-3 Lab Sample ID: 480-126300-3
Client ID: ML-2D
Operator ID: RR ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

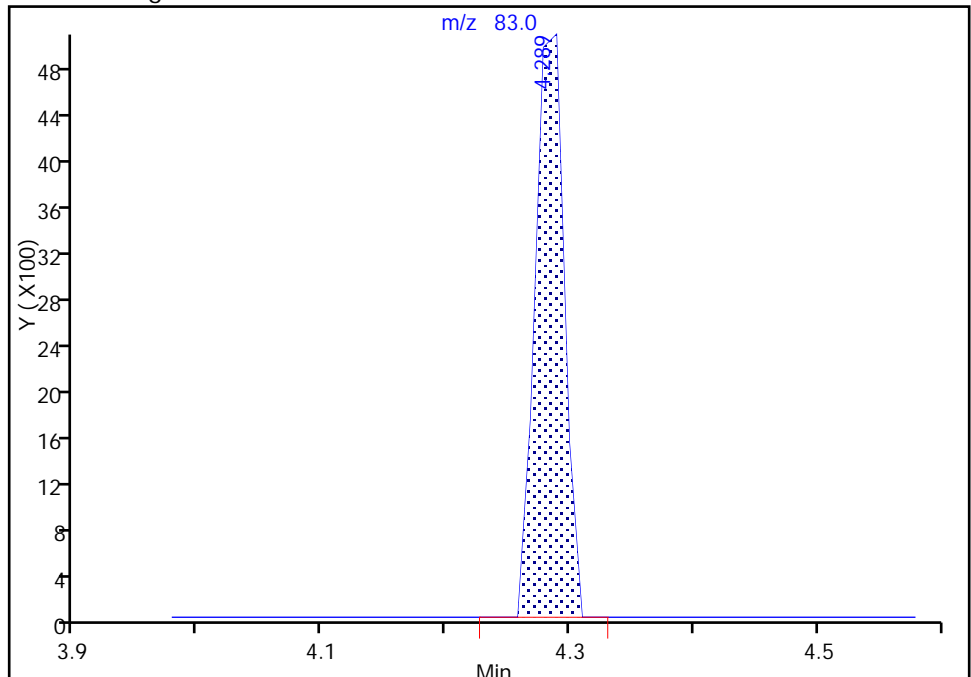
Signal: 1

Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results



RT: 4.29
Area: 8281
Amount: 0.569397
Amount Units: ug/L

Reviewer: sonkera, 31-Oct-2017 17:33:47
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

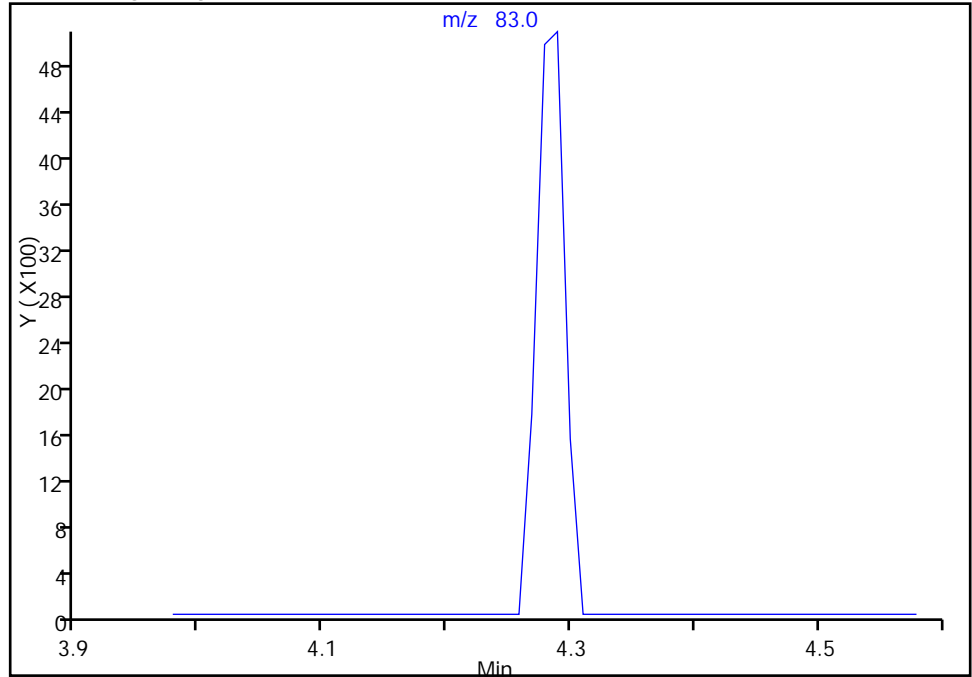
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D
Injection Date: 31-Oct-2017 17:07:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-3 Lab Sample ID: 480-126300-3
Client ID: ML-2D
Operator ID: RR ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

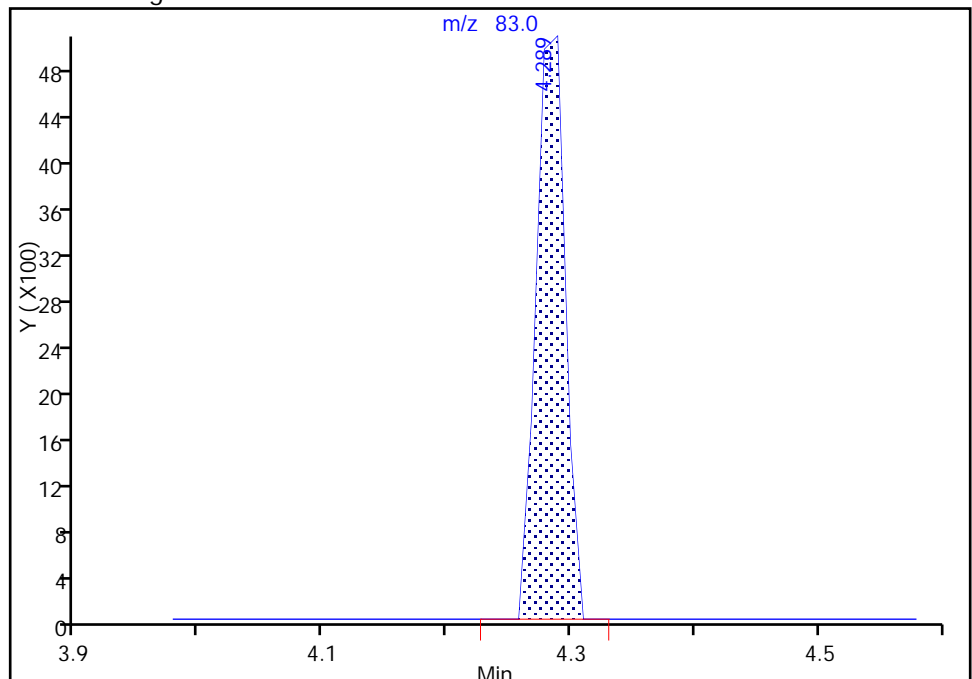
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 8281
Amount: 0.569397
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 17:33:48

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

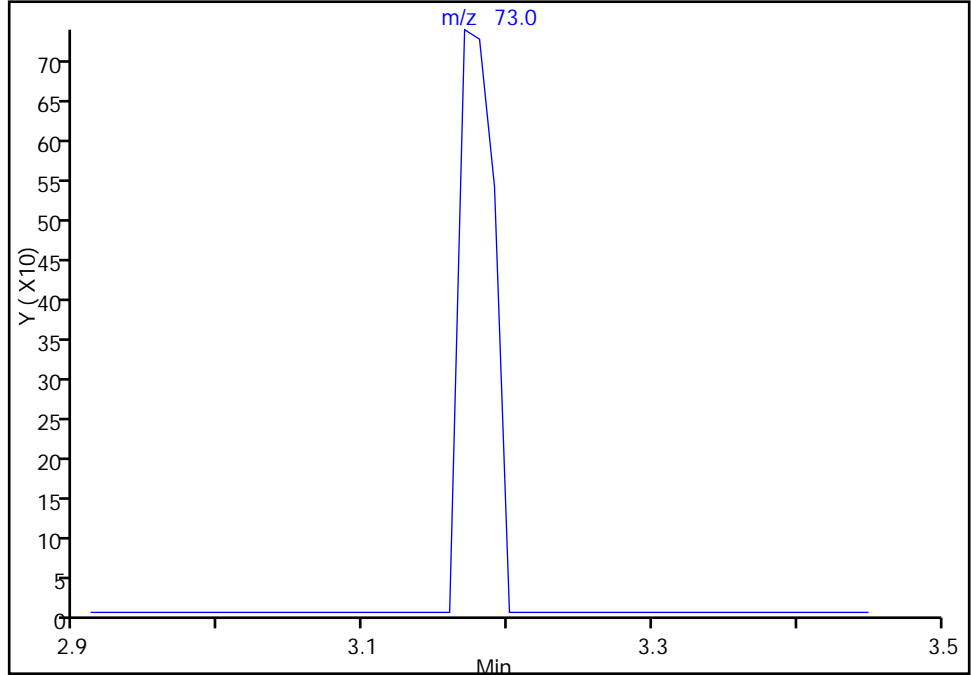
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1194.D
Injection Date: 31-Oct-2017 17:07:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-3 Lab Sample ID: 480-126300-3
Client ID: ML-2D
Operator ID: RR ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

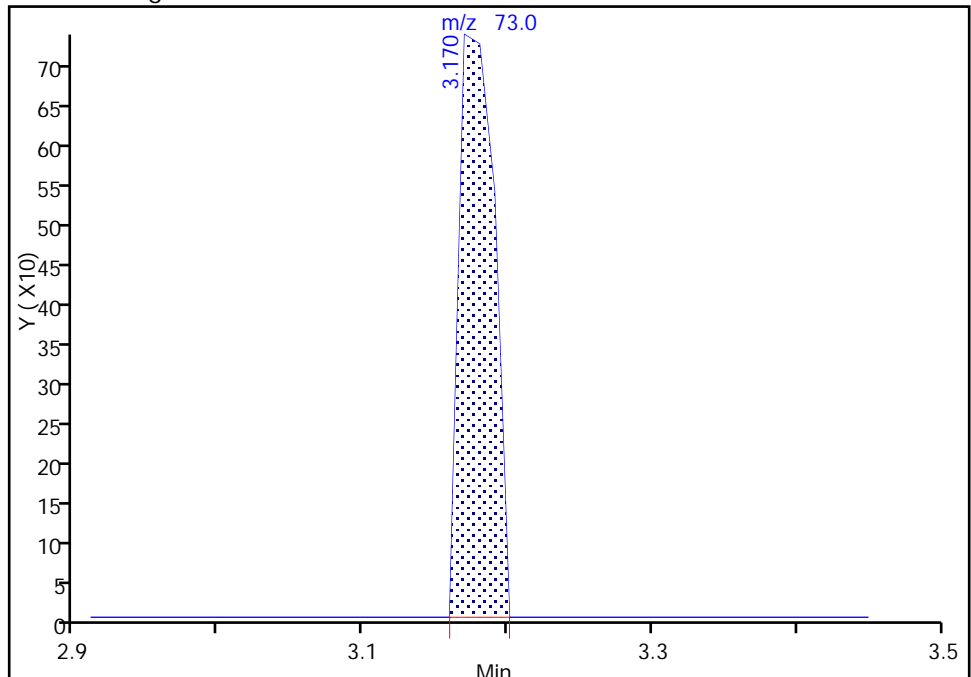
Not Detected
Expected RT: 3.18

Processing Integration Results



RT: 3.17
Area: 1247
Amount: 0.054744
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 31-Oct-2017 17:33:30
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

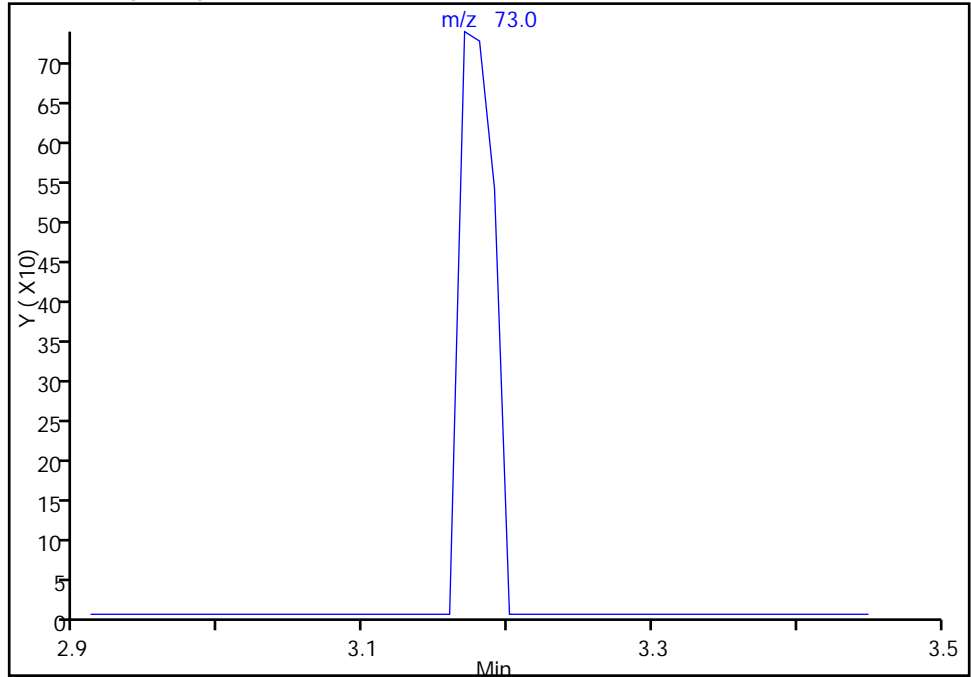
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Injection Date: 31-Oct-2017 17:07:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-3 Lab Sample ID: 480-126300-3
Client ID: ML-2D
Operator ID: RR ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

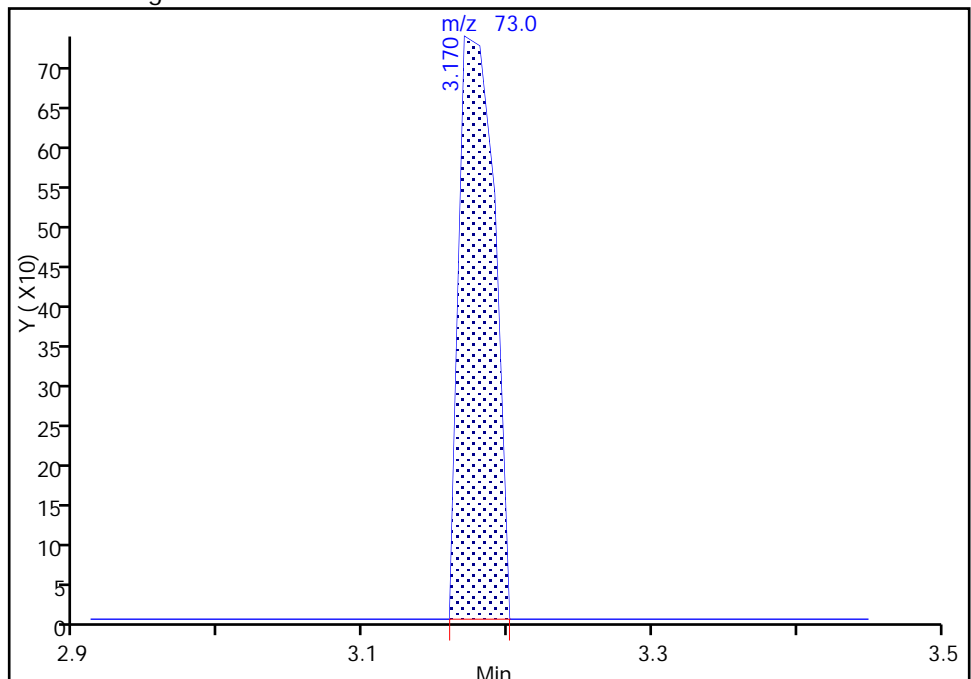
Not Detected
Expected RT: 3.18

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 1247
Amount: 0.054744
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 17:33:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-126300-4
 Matrix: Water Lab File ID: T1241.D
 Analysis Method: 8260C Date Collected: 10/19/2017 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	58	J	100	30
71-43-2	Benzene	18		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	ND		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-126300-4
 Matrix: Water Lab File ID: T1241.D
 Analysis Method: 8260C Date Collected: 10/19/2017 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	8.8	J	20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-126300-4
 Matrix: Water Lab File ID: T1241.D
 Analysis Method: 8260C Date Collected: 10/19/2017 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 64

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.31	64	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D
 Lims ID: 480-126300-F-4
 Client ID: ML-7S
 Sample Type: Client
 Inject. Date: 01-Nov-2017 14:22:30 ALS Bottle#: 14 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-126300-e-4
 Misc. Info.: 480-0066898-025
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 17:52:10 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: HillL

Date: 10-Jan-2018 11:45:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	97	165954	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	592006	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	275889	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.423	-0.001	91	206400	27.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	296797	26.1	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	725225	23.5	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	177063	23.8	
11 Dichlorodifluoromethane	85		1.232				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62		1.491				ND	
15 Bromomethane	94		1.781				ND	
16 Chloroethane	64		1.843				ND	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96		2.507				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.517				ND	
23 Acetone	43	2.641	2.631	0.010	97	19428	5.80	
25 Carbon disulfide	76		2.693				ND	
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73		3.180				ND	
32 trans-1,2-Dichloroethene	96		3.191				ND	
36 1,1-Dichloroethane	63	3.564	3.553	0.011	55	5488	0.2835	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	1	2526	0.2590	M
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83		4.279				ND	
51 1,1,1-Trichloroethane	97		4.372				ND	
52 Cyclohexane	56		4.372				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	48	60226	1.81	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95		5.139				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.988	-0.011	50	5986	0.4369	
73 Toluene	92	6.092	6.102	-0.011	94	6526	0.2930	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166		6.507				ND	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91		7.253				ND	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	13141	0.8752	
91 o-Xylene	106	7.667	7.667	0.000	94	8991	0.5999	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105	7.947	7.947	0.000	91	11268	0.3029	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.051				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		1.48	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D
 Lims ID: 480-126300-F-4
 Client ID: ML-7S
 Sample Type: Client
 Inject. Date: 01-Nov-2017 14:22:30 ALS Bottle#: 14 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-126300-e-4
 Misc. Info.: 480-0066898-025
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 17:52:10 Calib Date: 20-Oct-2017 00:03:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055
 First Level Reviewer: Hilll Date: 10-Jan-2018 11:45:39

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.310	504863	6.35	153		Unknown			

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	4.880	1987451	25.0

QC Flag Legend

Processing Flags

Reagents:

T_8260_IS_00176 Amount Added: 1.00 Units: uL Run Reagent
 T_8260_Surr_00160 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D

Injection Date: 01-Nov-2017 14:22:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-4

Lab Sample ID: 480-126300-4

Worklist Smp#: 25

Client ID: ML-7S

Purge Vol: 5.000 mL

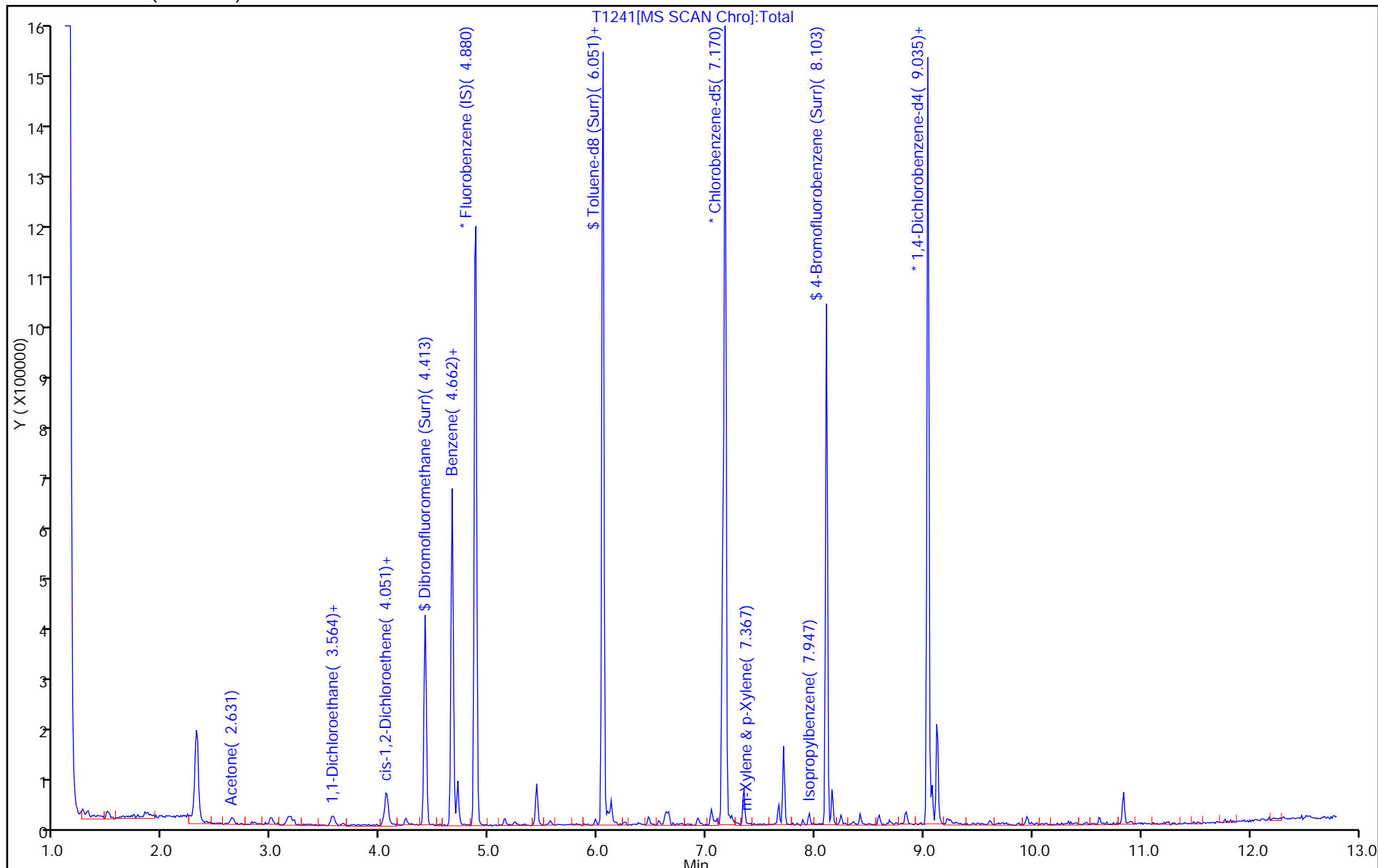
Dil. Factor: 10.0000

ALS Bottle#: 14

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D

Injection Date: 01-Nov-2017 14:22:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-4

Lab Sample ID: 480-126300-4

Client ID: ML-7S

Operator ID: RR

ALS Bottle#: 14

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

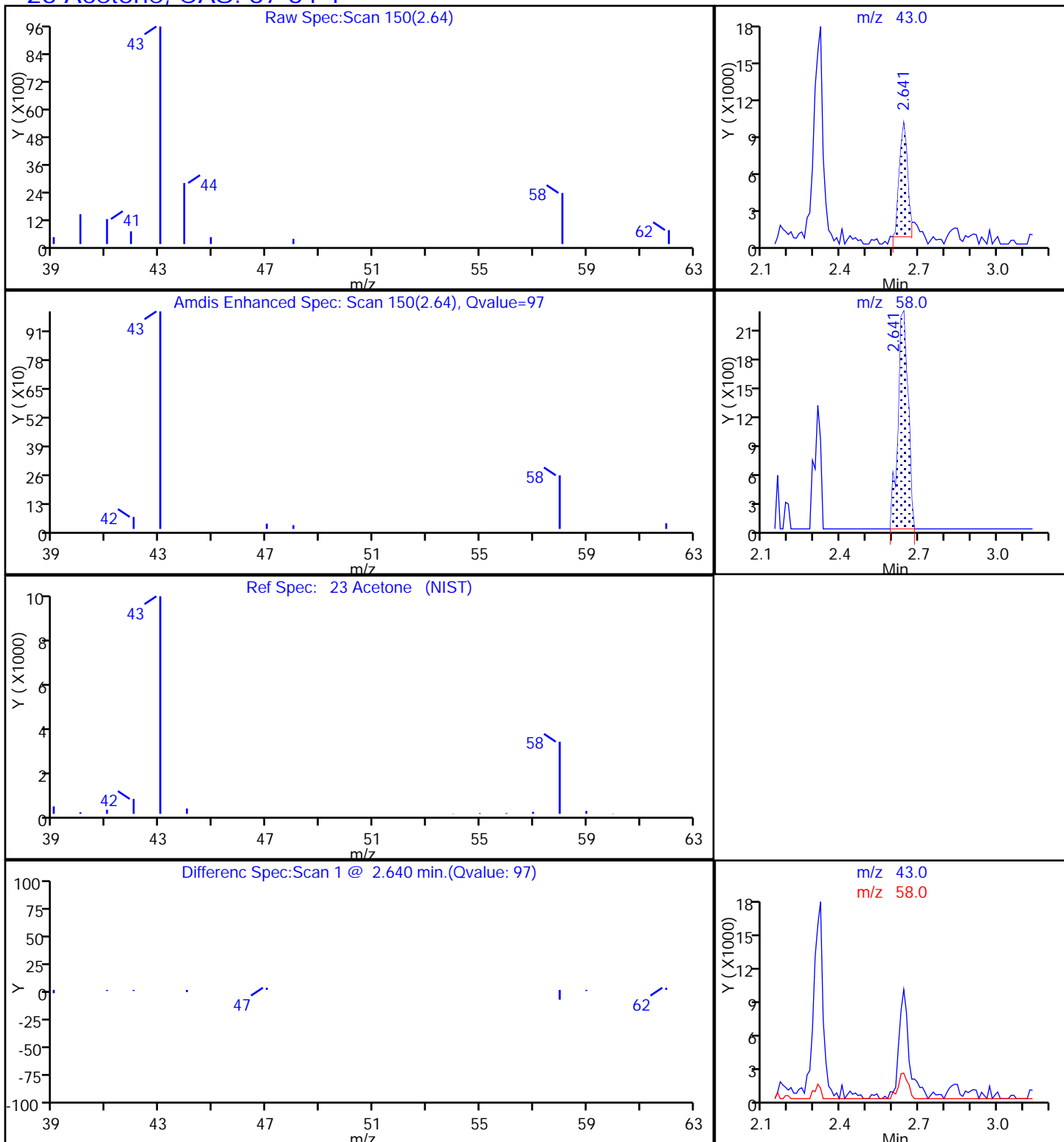
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D

Injection Date: 01-Nov-2017 14:22:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-4

Lab Sample ID: 480-126300-4

Client ID: ML-7S

Operator ID: RR

ALS Bottle#: 14

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

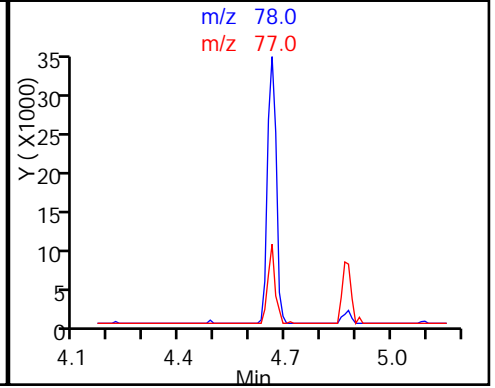
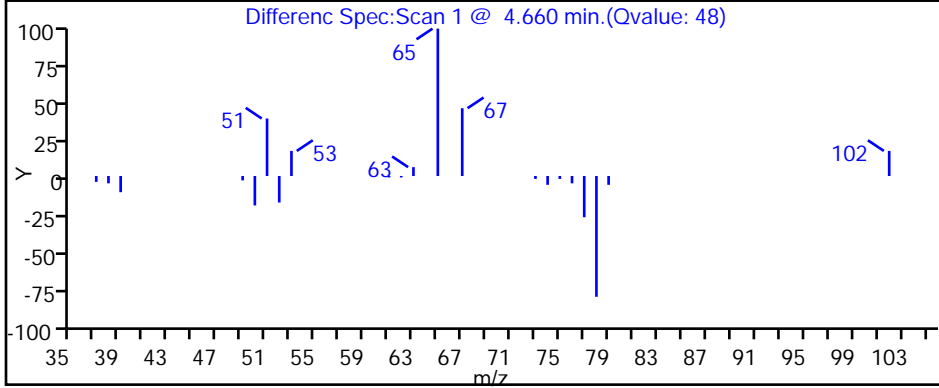
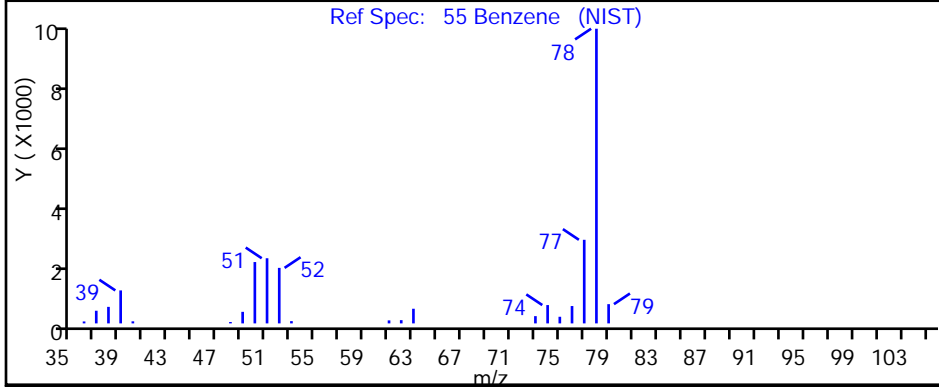
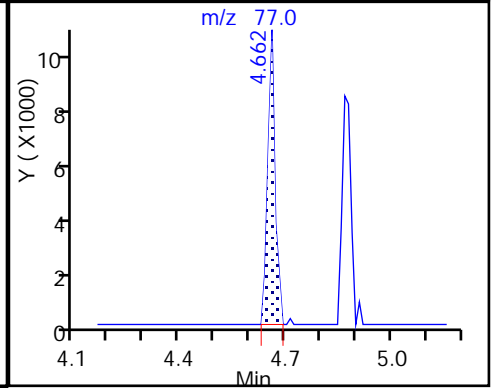
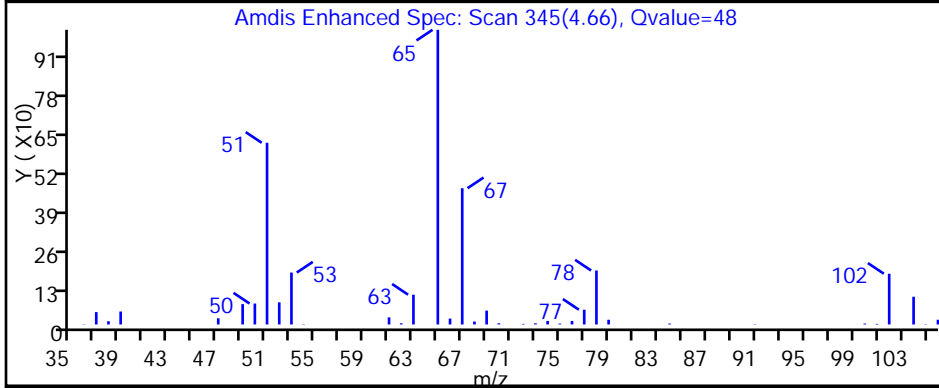
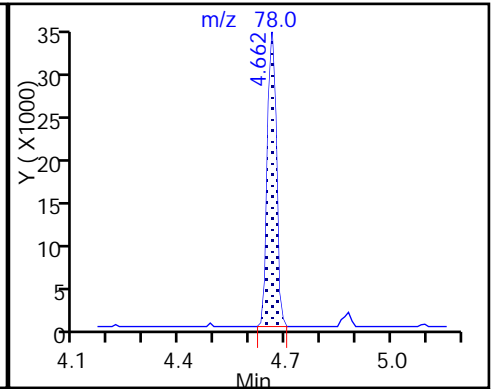
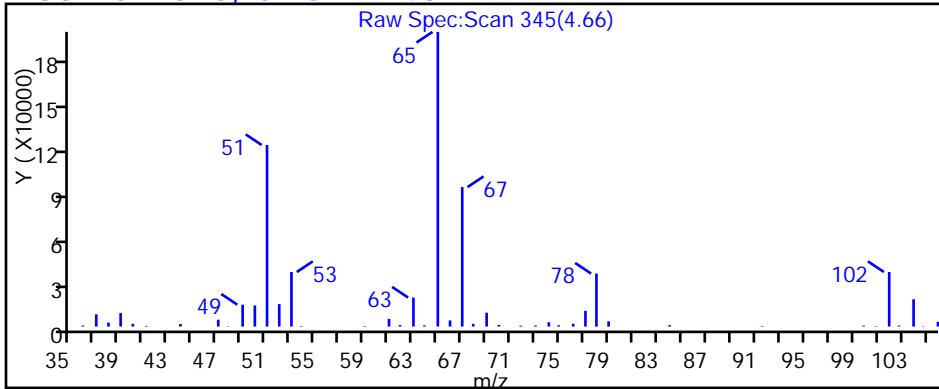
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D

Injection Date: 01-Nov-2017 14:22:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-4

Lab Sample ID: 480-126300-4

Client ID: ML-7S

Operator ID: RR

ALS Bottle#: 14

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

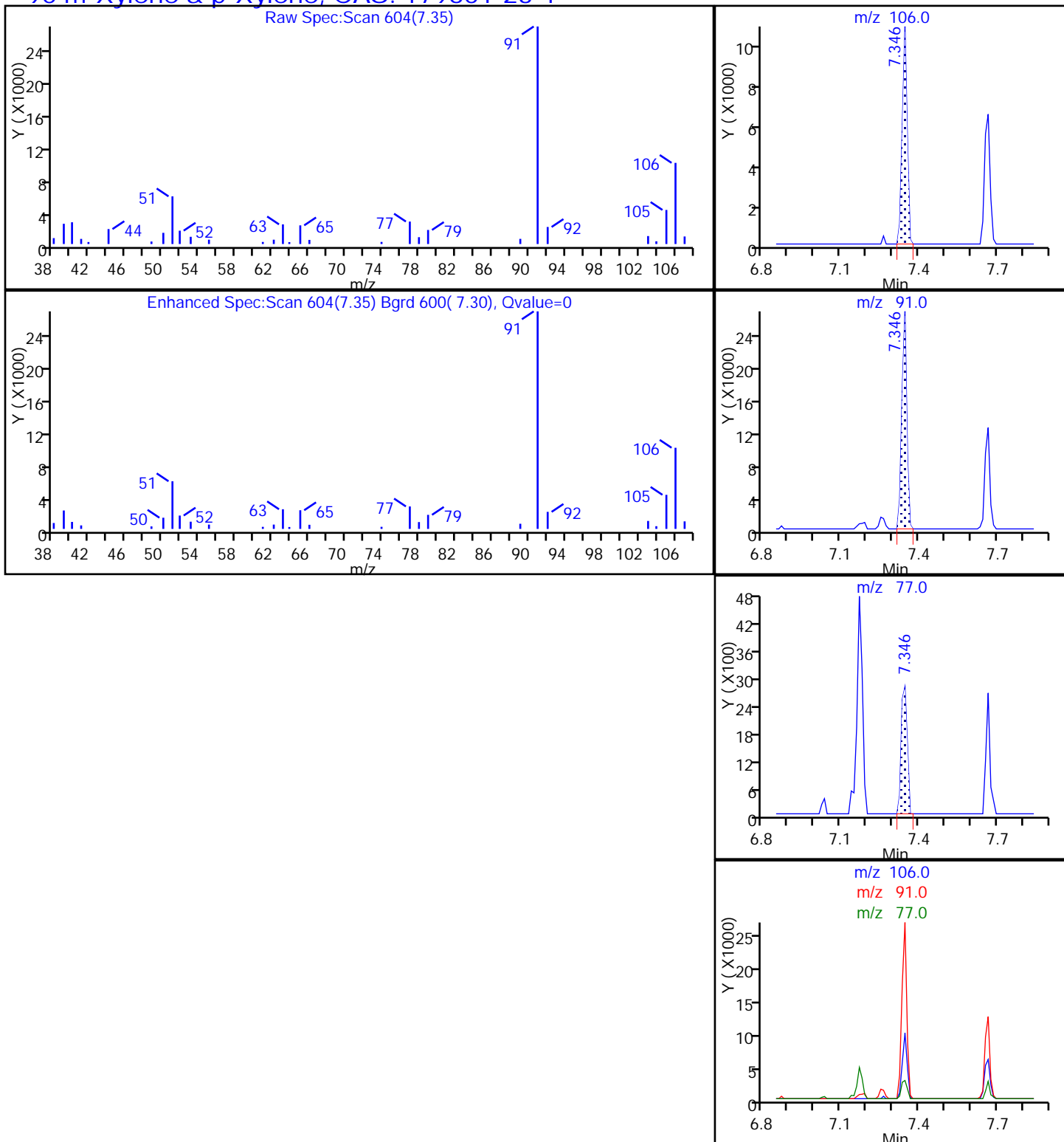
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D

Injection Date: 01-Nov-2017 14:22:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-4

Lab Sample ID: 480-126300-4

Client ID: ML-7S

Operator ID: RR

ALS Bottle#: 14

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

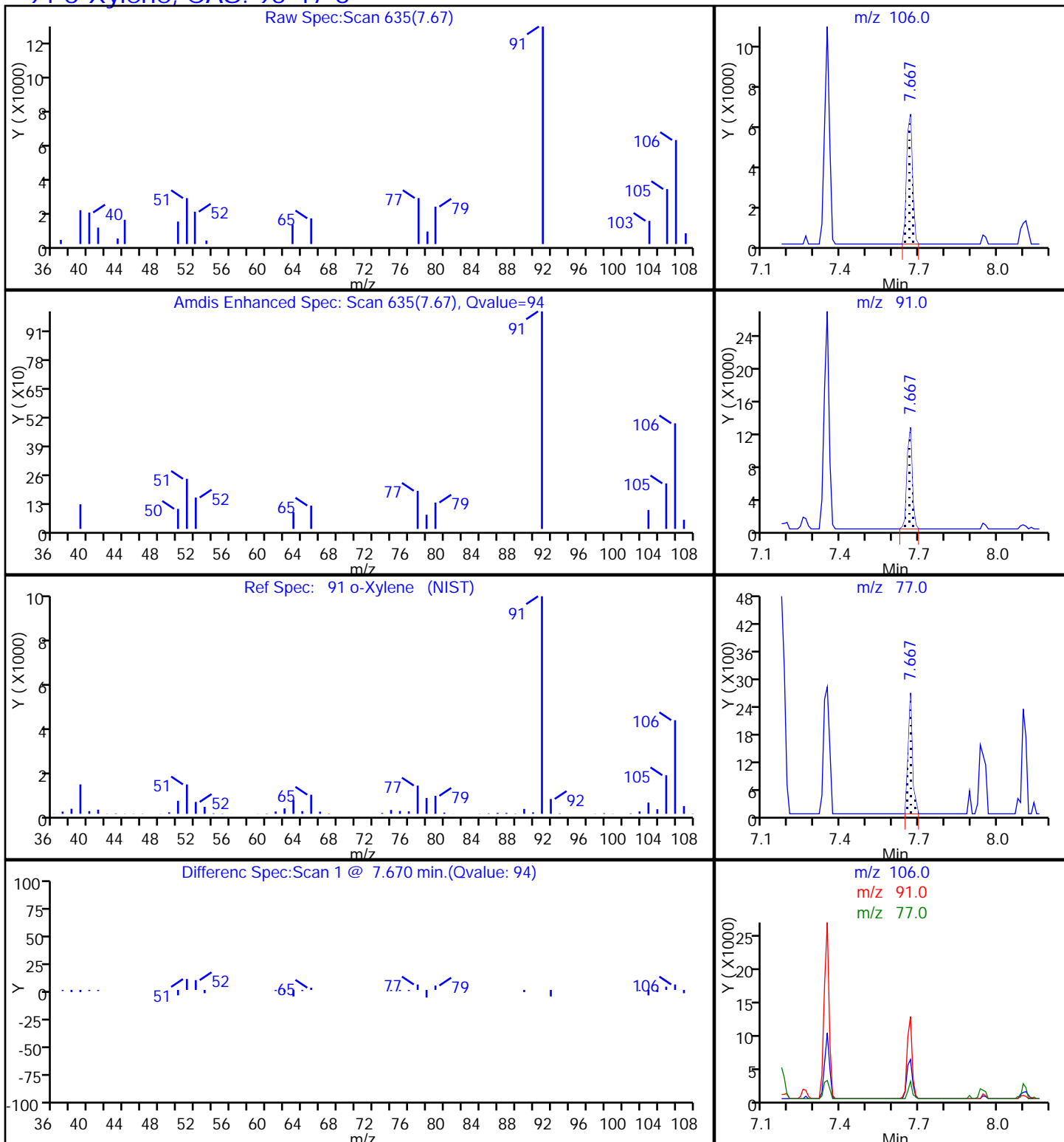
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

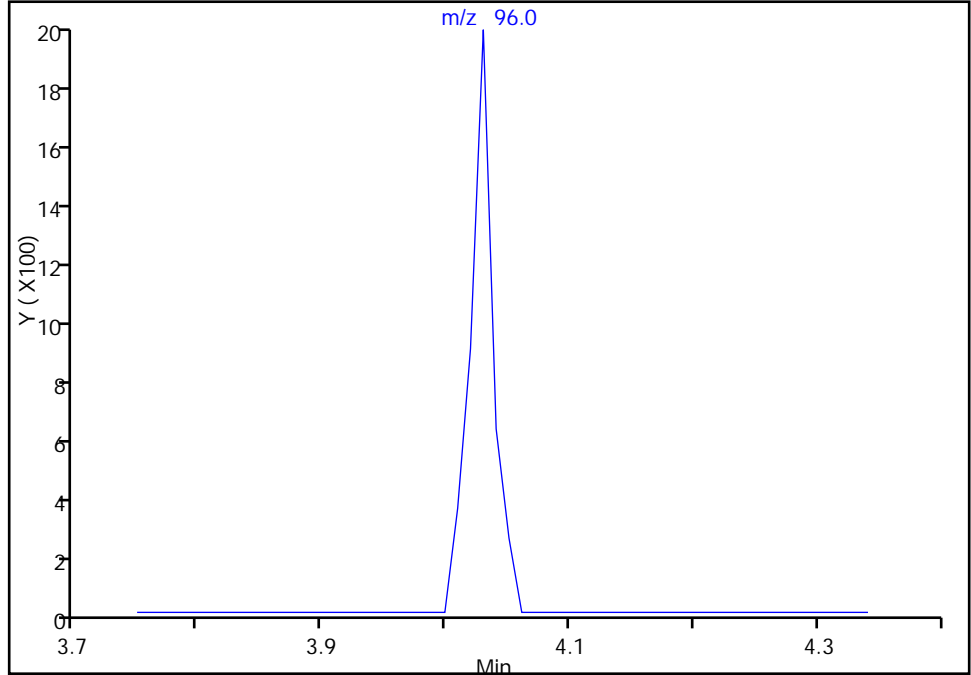
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Injection Date: 01-Nov-2017 14:22:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-4 Lab Sample ID: 480-126300-4
Client ID: ML-7S
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

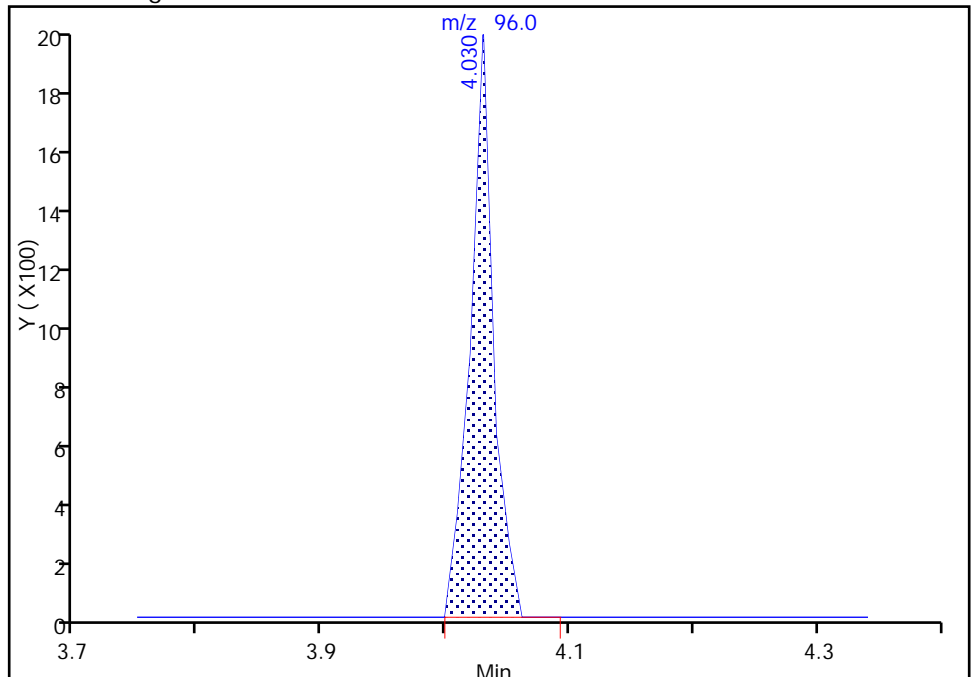
Not Detected
Expected RT: 4.02

Processing Integration Results



Manual Integration Results

RT: 4.03
Area: 2526
Amount: 0.259015
Amount Units: ug/L



Reviewer: nowakk, 01-Nov-2017 16:10:32
Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

TestAmerica Buffalo

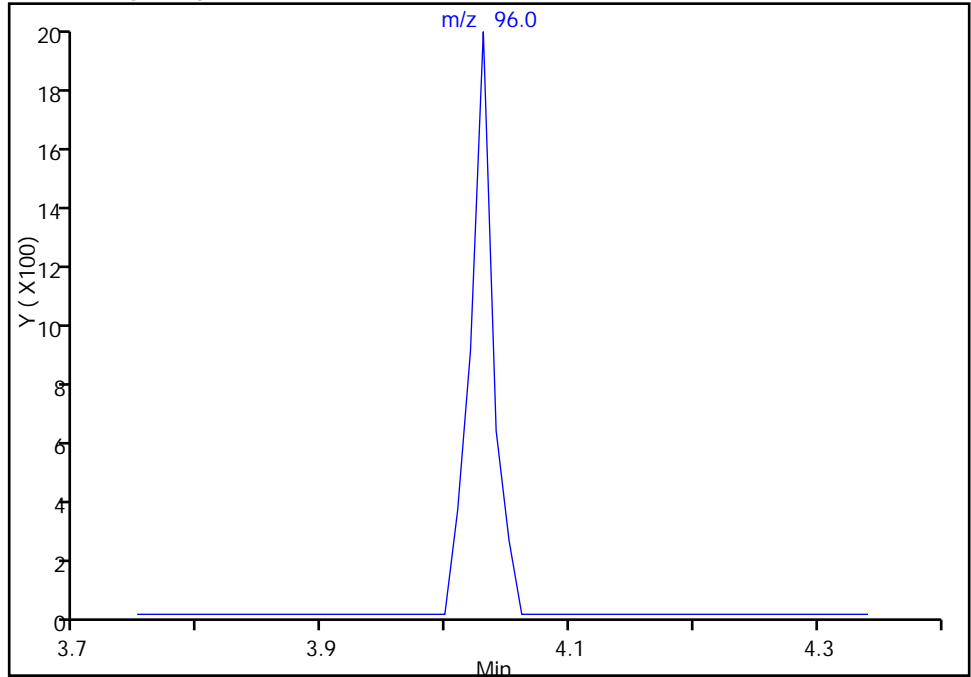
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D
Injection Date: 01-Nov-2017 14:22:30 Instrument ID: HP5975T
Lims ID: 480-126300-F-4 Lab Sample ID: 480-126300-4
Client ID: ML-7S
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

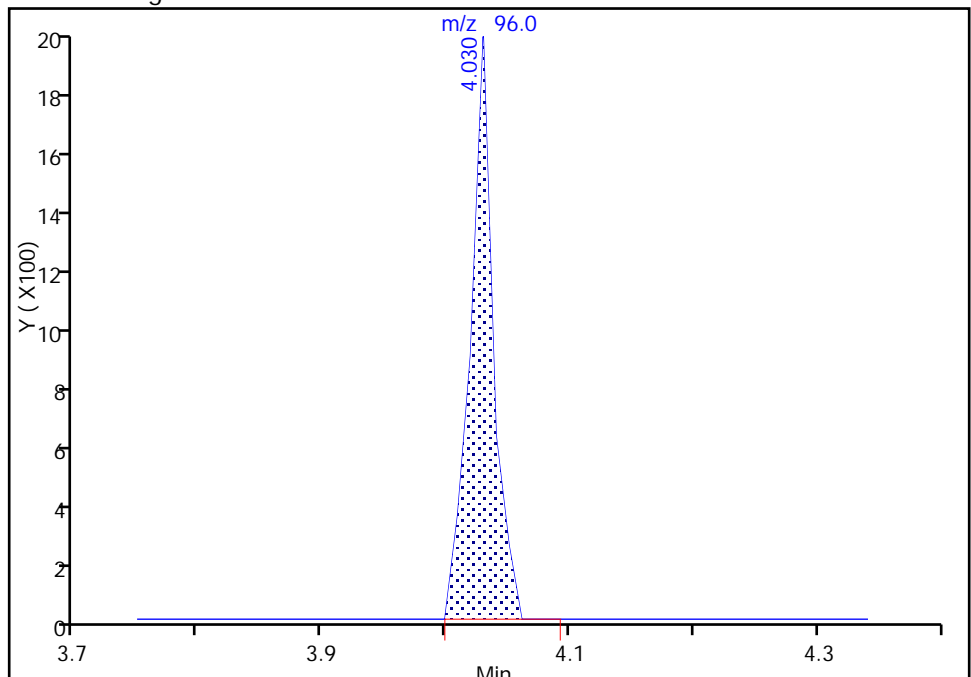
Not Detected
Expected RT: 4.02

Processing Integration Results



Manual Integration Results

RT: 4.03
Area: 2526
Amount: 0.259015
Amount Units: ug/L



Reviewer: nowakk, 01-Nov-2017 16:10:44

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1241.D

Injection Date: 01-Nov-2017 14:22:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-4

Lab Sample ID: 480-126300-4

Client ID: ML-7S

Operator ID: RR

ALS Bottle#: 14 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

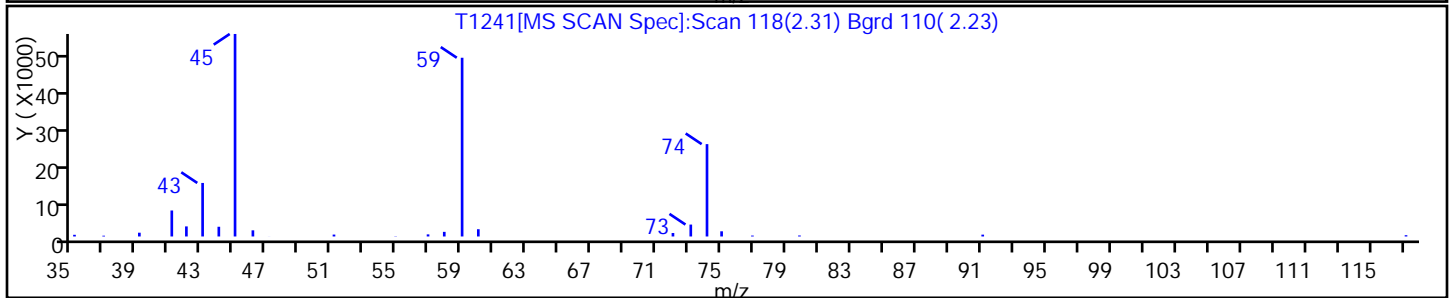
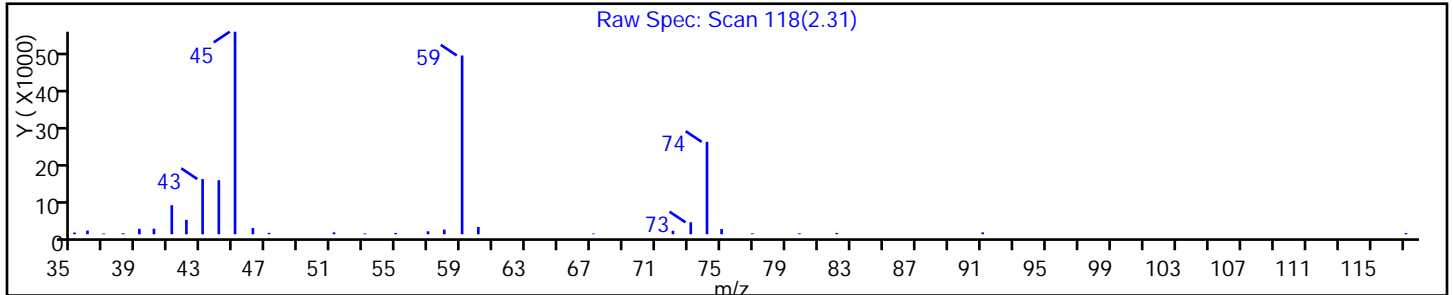
Method: T-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-126300-5
 Matrix: Water Lab File ID: T1242.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 14:46
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	110		50	41
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	11
79-00-5	1,1,2-Trichloroethane	ND		50	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	380		50	16
75-34-3	1,1-Dichloroethane	370		50	19
75-35-4	1,1-Dichloroethene	ND		50	15
120-82-1	1,2,4-Trichlorobenzene	ND		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	ND		50	20
95-50-1	1,2-Dichlorobenzene	ND		50	40
107-06-2	1,2-Dichloroethane	ND		50	11
78-87-5	1,2-Dichloropropane	ND		50	36
541-73-1	1,3-Dichlorobenzene	ND		50	39
106-46-7	1,4-Dichlorobenzene	ND		50	42
78-93-3	2-Butanone (MEK)	ND		500	66
591-78-6	2-Hexanone	ND		250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	110
67-64-1	Acetone	ND		500	150
71-43-2	Benzene	59		50	21
75-27-4	Bromodichloromethane	ND		50	20
75-25-2	Bromoform	ND	F1	50	13
74-83-9	Bromomethane	ND		50	35
75-15-0	Carbon disulfide	ND		50	9.5
56-23-5	Carbon tetrachloride	ND	F1	50	14
108-90-7	Chlorobenzene	ND		50	38
124-48-1	Dibromochloromethane	ND	F1	50	16
75-00-3	Chloroethane	170		50	16
67-66-3	Chloroform	ND		50	17
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	2800		50	41
10061-01-5	cis-1,3-Dichloropropene	ND		50	18
110-82-7	Cyclohexane	ND		50	9.0
75-71-8	Dichlorodifluoromethane	ND		50	34
100-41-4	Ethylbenzene	ND		50	37
106-93-4	1,2-Dibromoethane	ND		50	37
98-82-8	Isopropylbenzene	ND		50	40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-126300-5
 Matrix: Water Lab File ID: T1242.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 14:46
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		130	65
1634-04-4	Methyl tert-butyl ether	ND		50	8.0
108-87-2	Methylcyclohexane	ND		50	8.0
75-09-2	Methylene Chloride	ND		50	22
100-42-5	Styrene	ND		50	37
127-18-4	Tetrachloroethene	35	J	50	18
108-88-3	Toluene	75		50	26
156-60-5	trans-1,2-Dichloroethene	ND		50	45
10061-02-6	trans-1,3-Dichloropropene	ND		50	19
79-01-6	Trichloroethene	140		50	23
75-69-4	Trichlorofluoromethane	ND		50	44
75-01-4	Vinyl chloride	510		50	45
1330-20-7	Xylenes, Total	ND		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	117		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-126300-5
 Matrix: Water Lab File ID: T1242.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 14:46
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D
 Lims ID: 480-126300-F-5
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 01-Nov-2017 14:46:30 ALS Bottle#: 15 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 480-126300-e-5
 Misc. Info.: 480-0066898-026
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 17:52:10 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: nowakk

Date: 01-Nov-2017 16:16:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	97	159398	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	577346	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	273822	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.423	-0.001	91	208788	29.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	295707	27.0	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	95	714107	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.102	8.103	-0.001	79	175318	24.2	
11 Dichlorodifluoromethane	85		1.232				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62	1.501	1.491	0.010	98	150613	10.1	
15 Bromomethane	94		1.781				ND	
16 Chloroethane	64	1.854	1.843	0.011	95	22780	3.46	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	25	699	0.1054	
20 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.517	0.021	94	52812	7.62	
23 Acetone	43		2.631				ND	
25 Carbon disulfide	76		2.693				ND	
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73		3.180				ND	
32 trans-1,2-Dichloroethene	96	3.201	3.191	0.010	83	2062	0.2633	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	138960	7.47	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	87	530399	56.6	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83		4.279				ND	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	94	24842	2.15	
52 Cyclohexane	56		4.372				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	44	37794	1.18	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95	5.139	5.139	0.000	87	21958	2.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92	6.102	6.102	-0.001	97	32591	1.50	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166	6.507	6.507	0.000	86	5295	0.6991	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91		7.253				ND	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	4130	0.2821	
91 o-Xylene	106		7.667				ND	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105		7.947				ND	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.051				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		0.2821	

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Worklist Smp#: 26

Client ID: ML-7I

Purge Vol: 5.000 mL

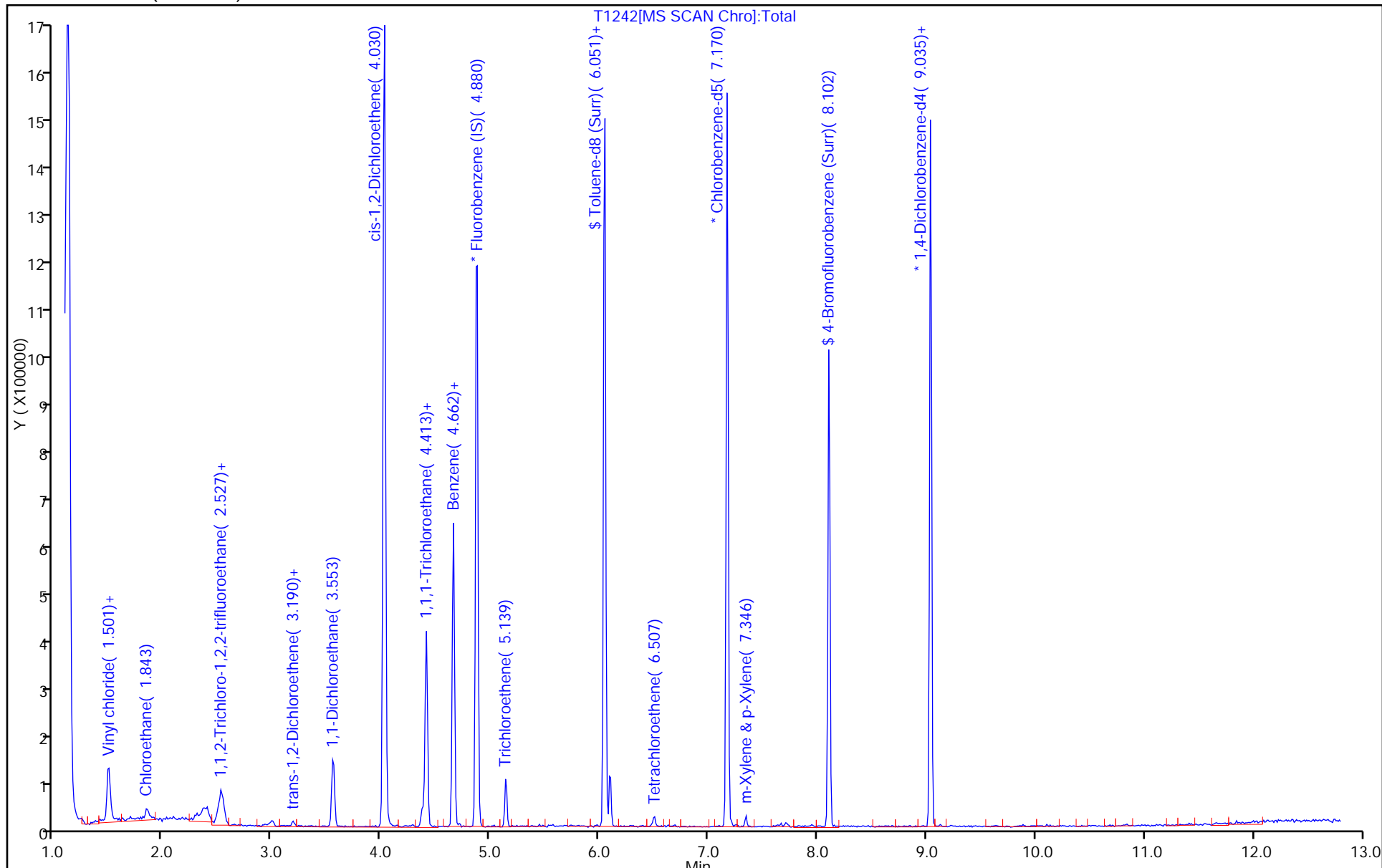
Dil. Factor: 50.0000

ALS Bottle#: 15

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

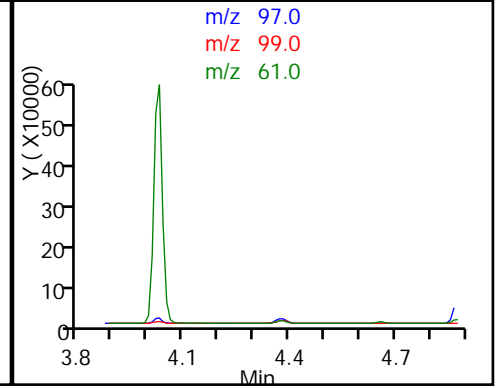
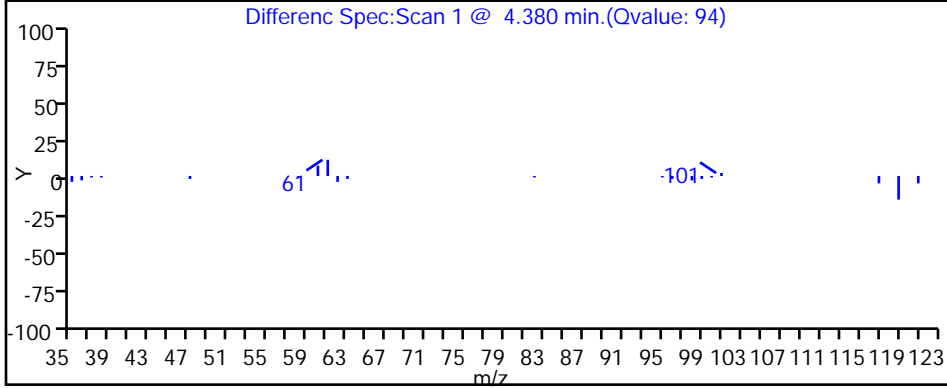
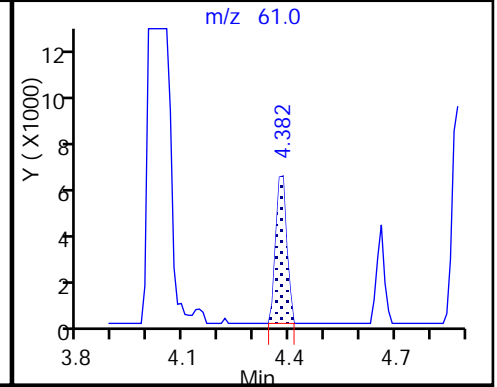
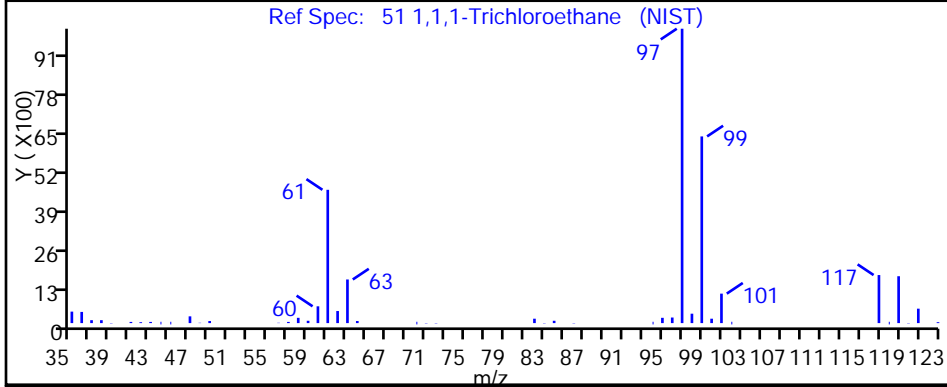
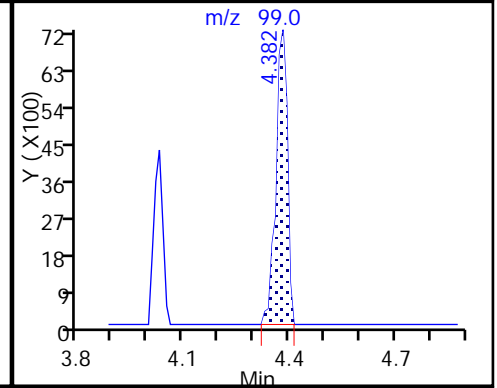
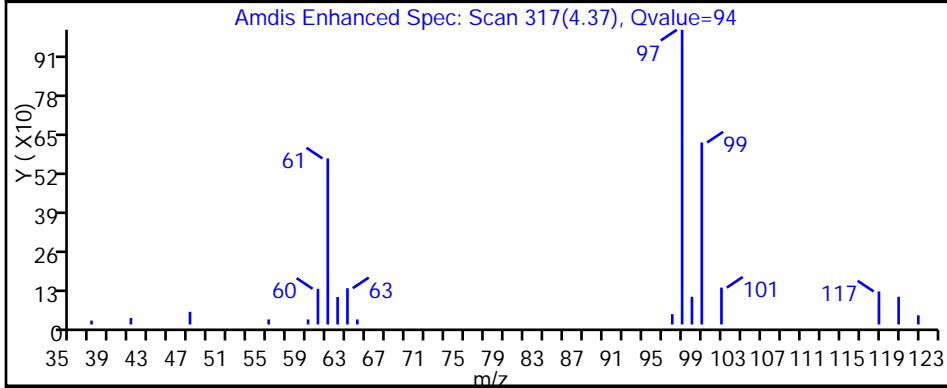
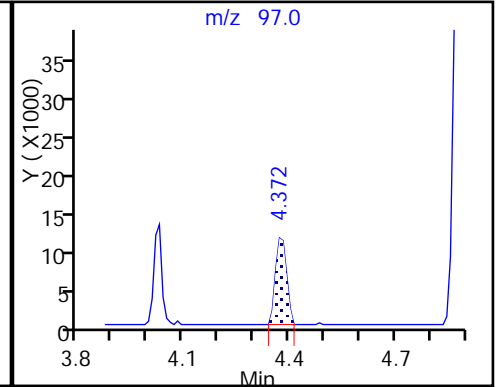
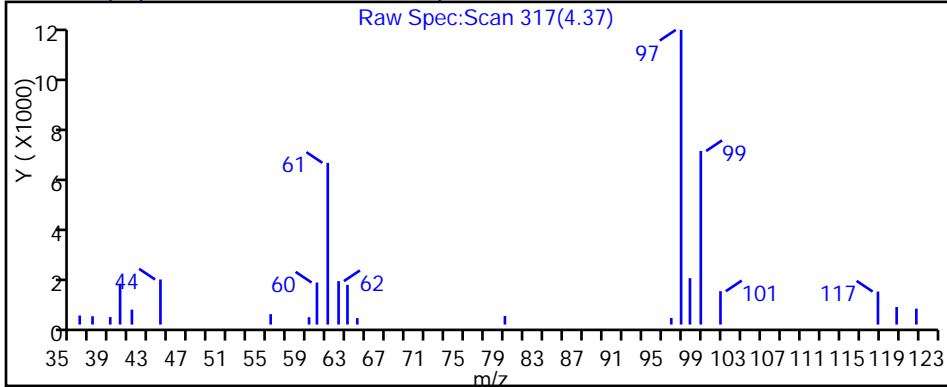
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

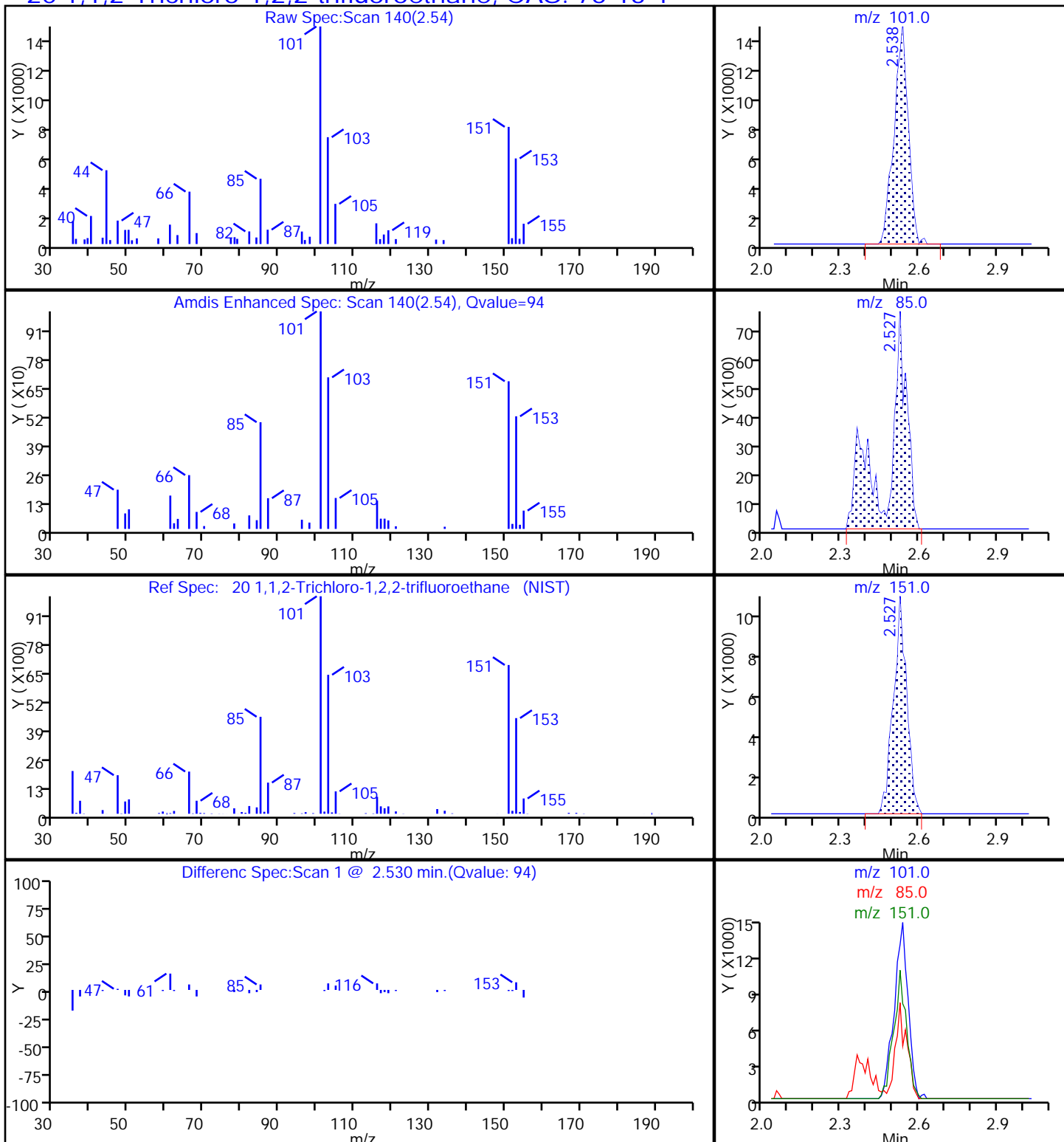
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

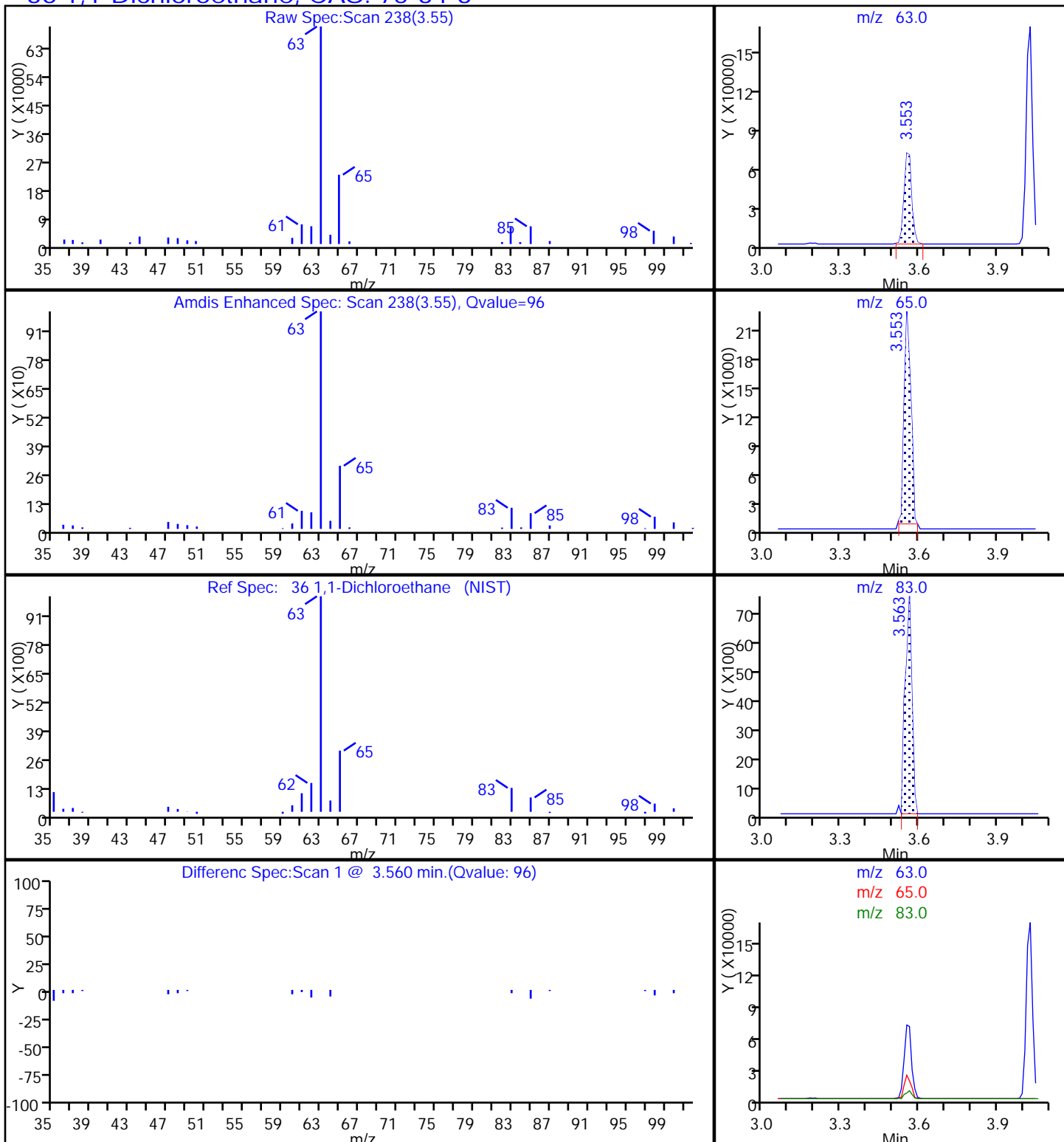
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

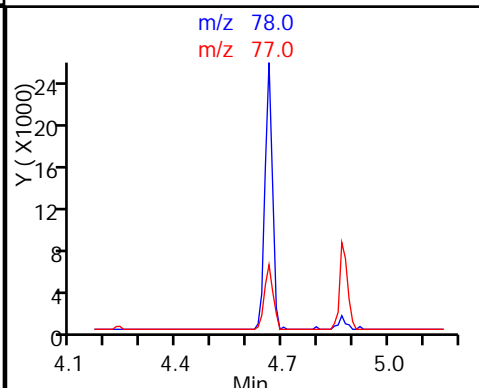
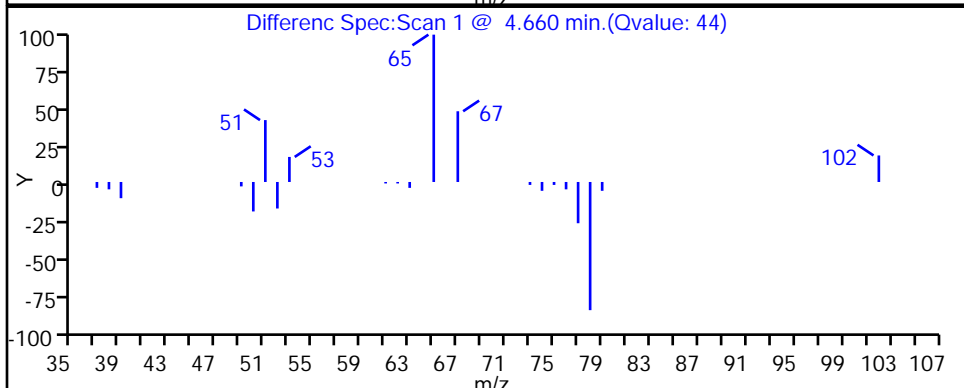
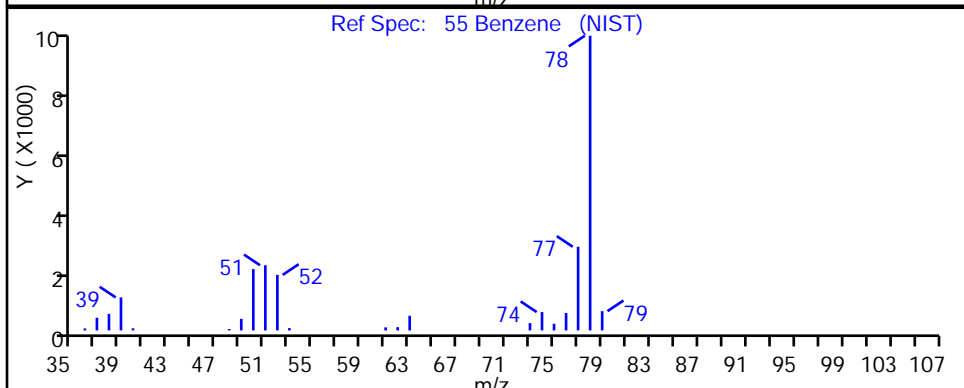
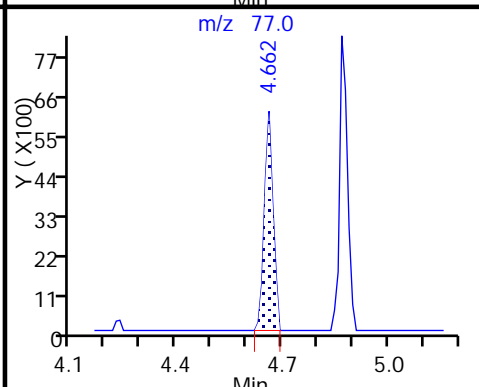
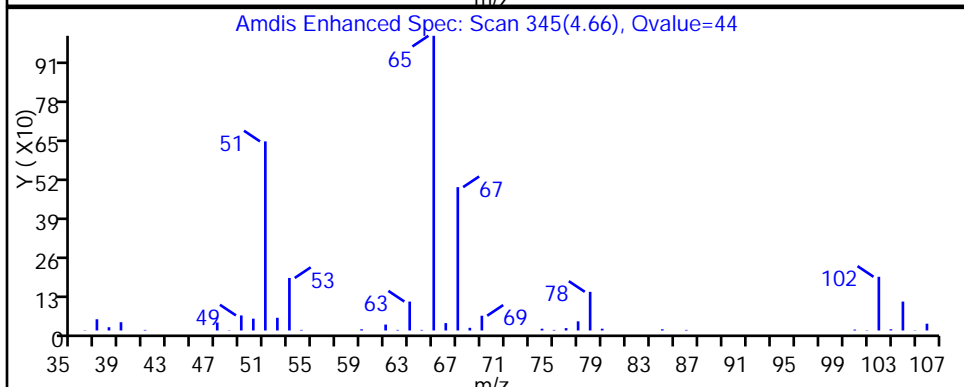
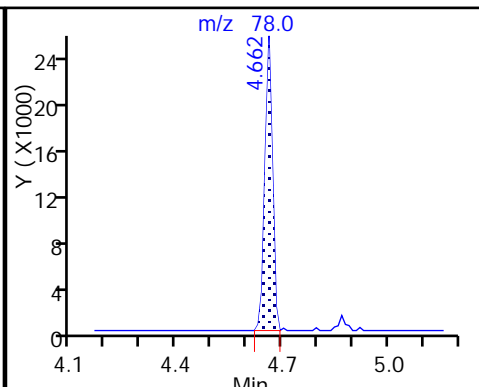
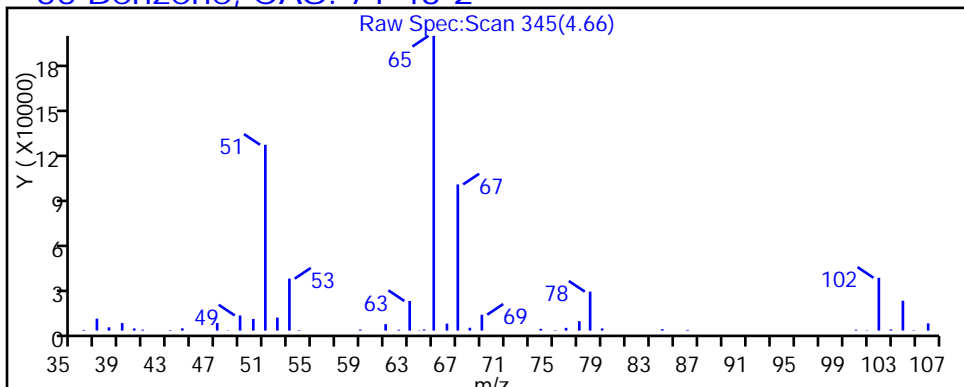
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

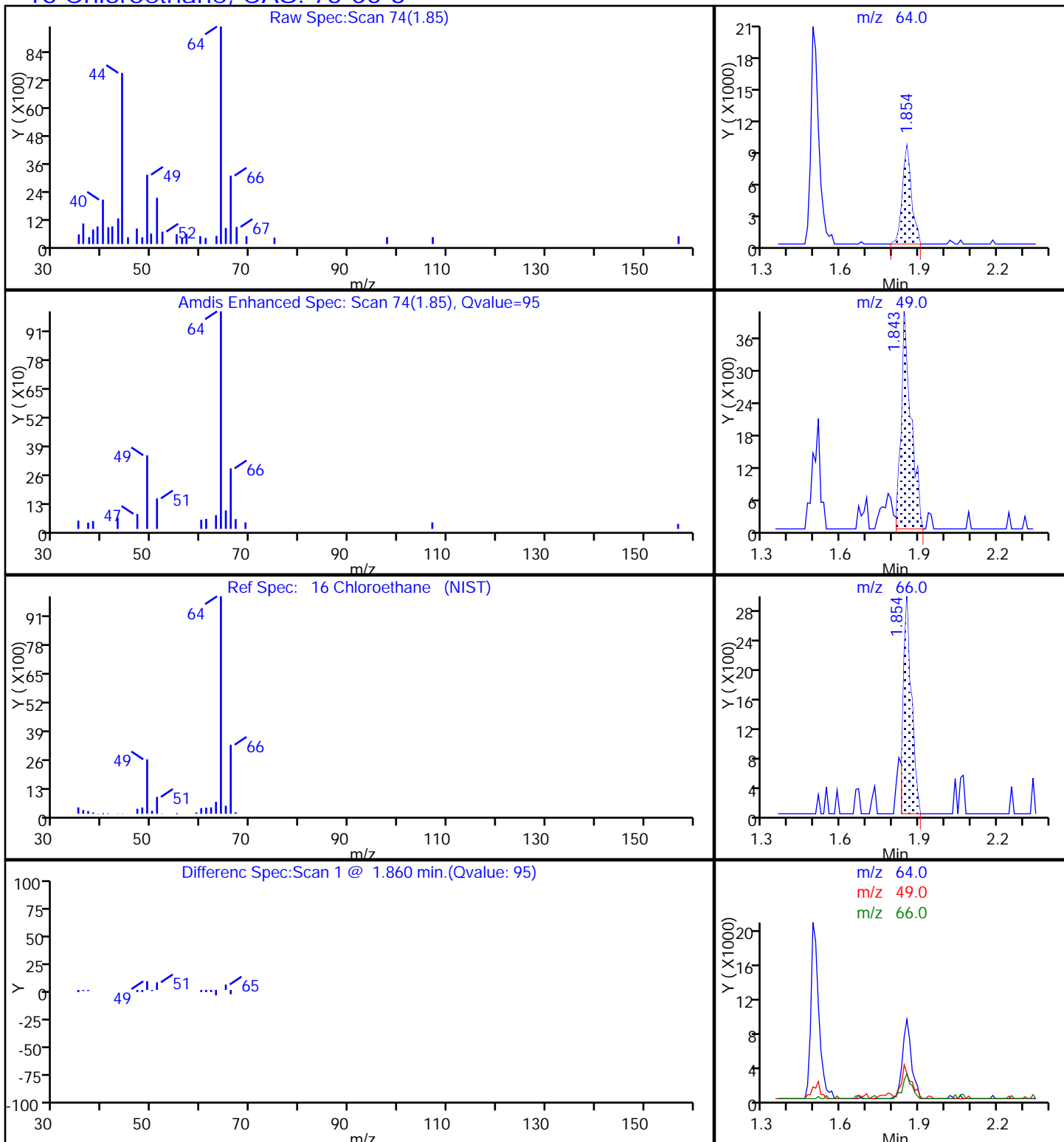
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

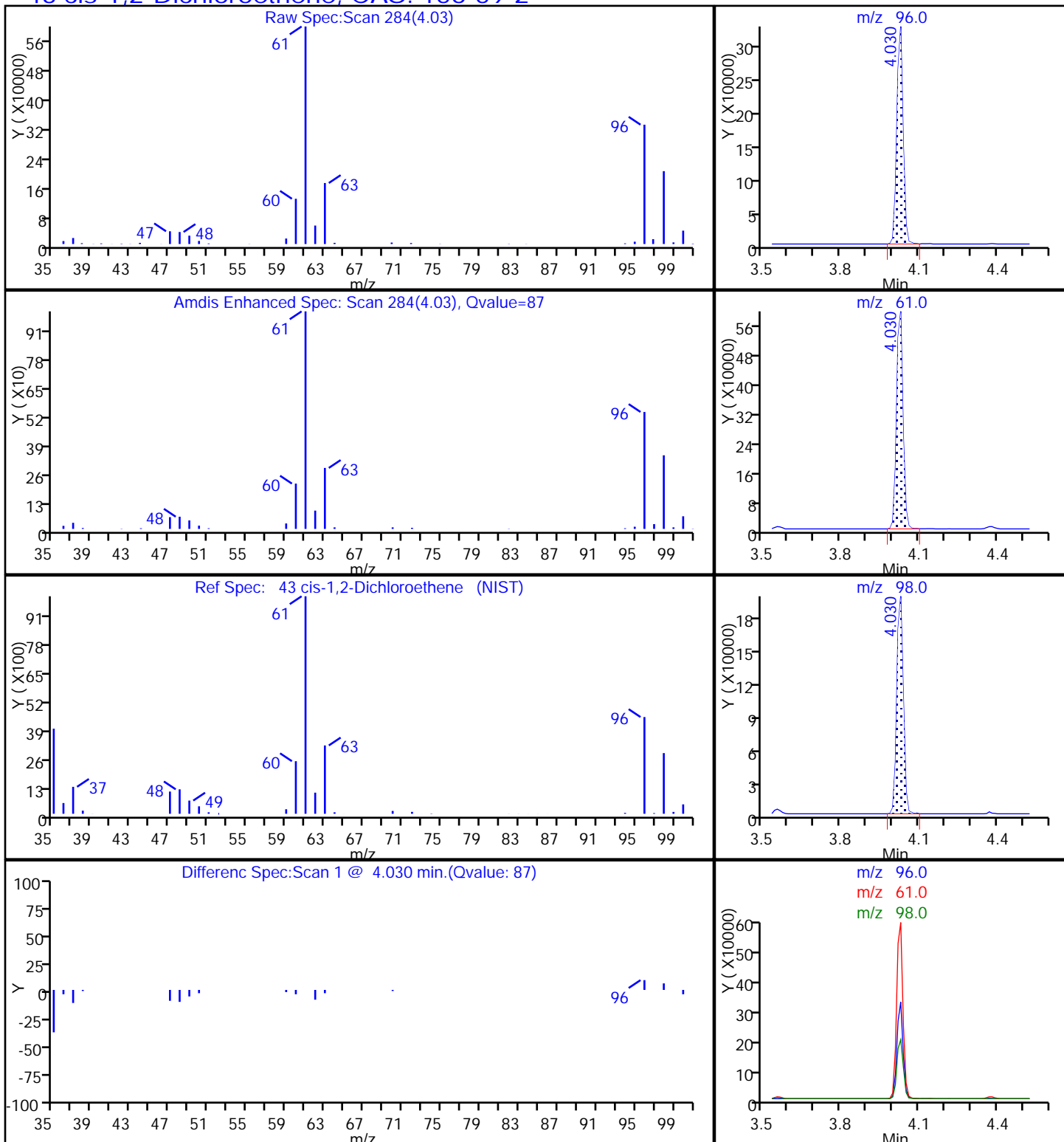
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

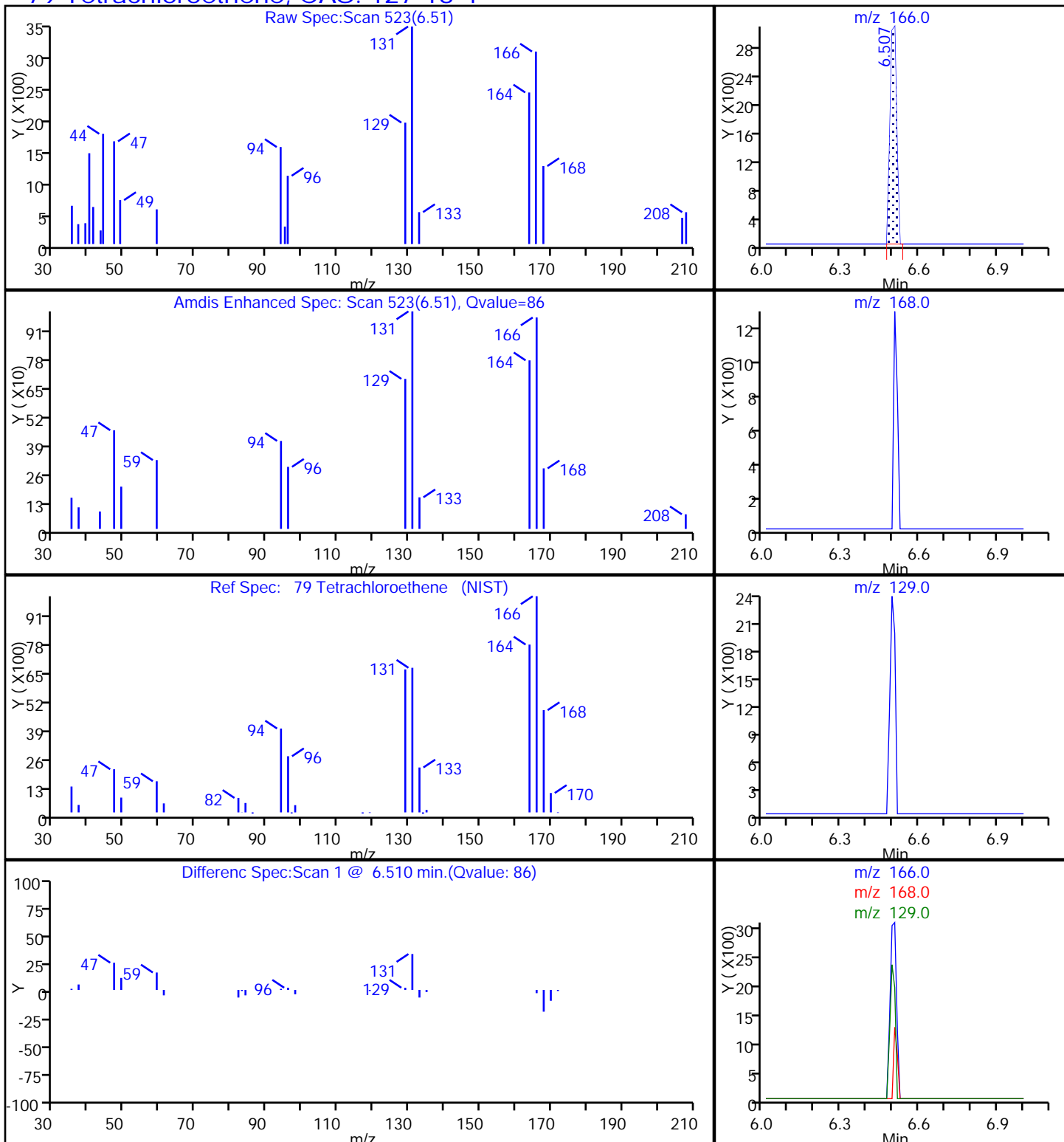
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

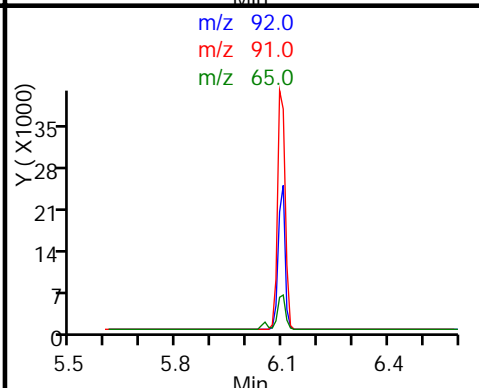
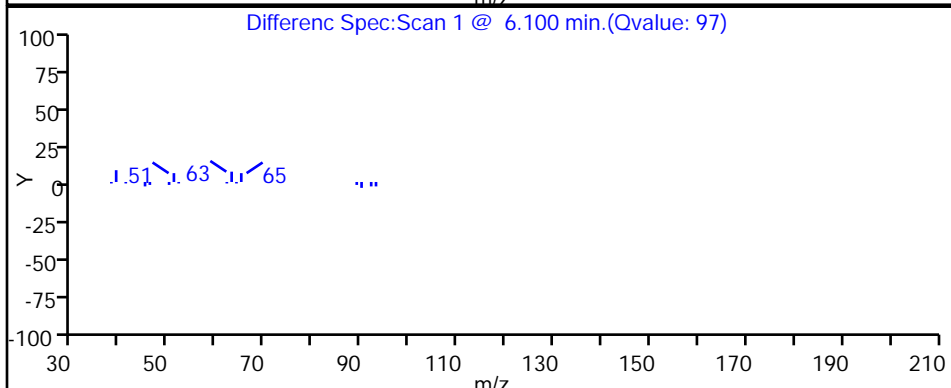
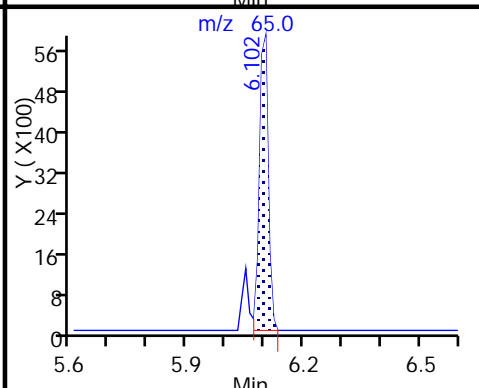
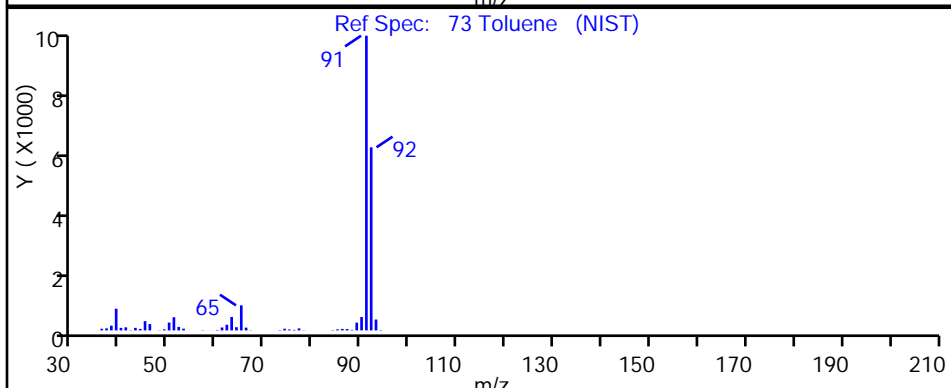
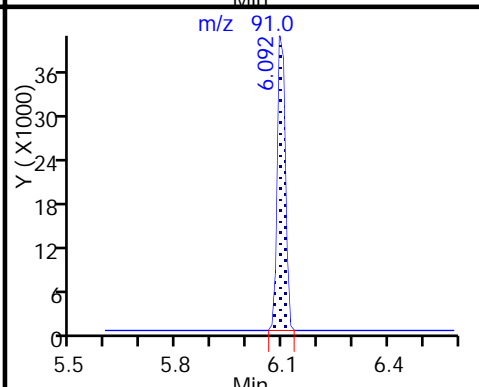
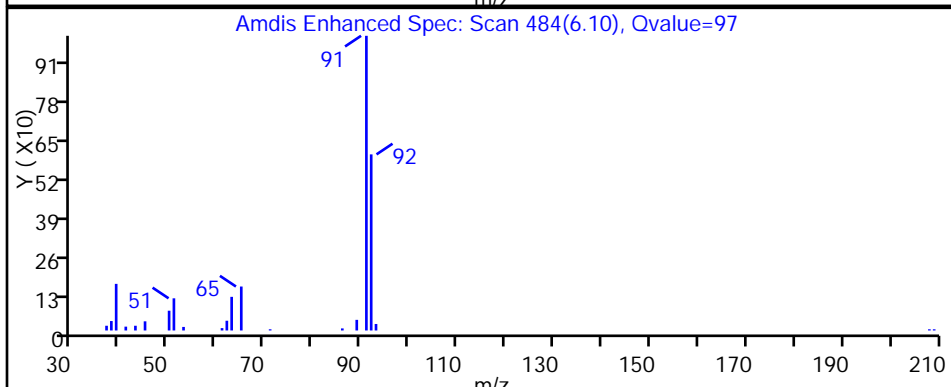
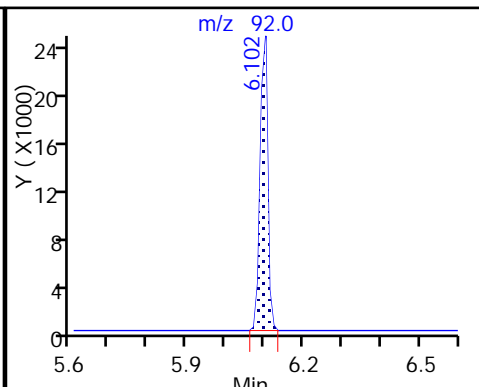
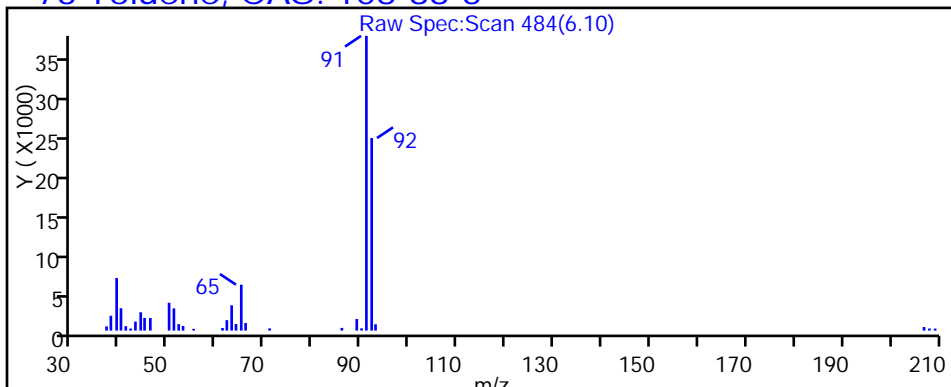
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-71

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

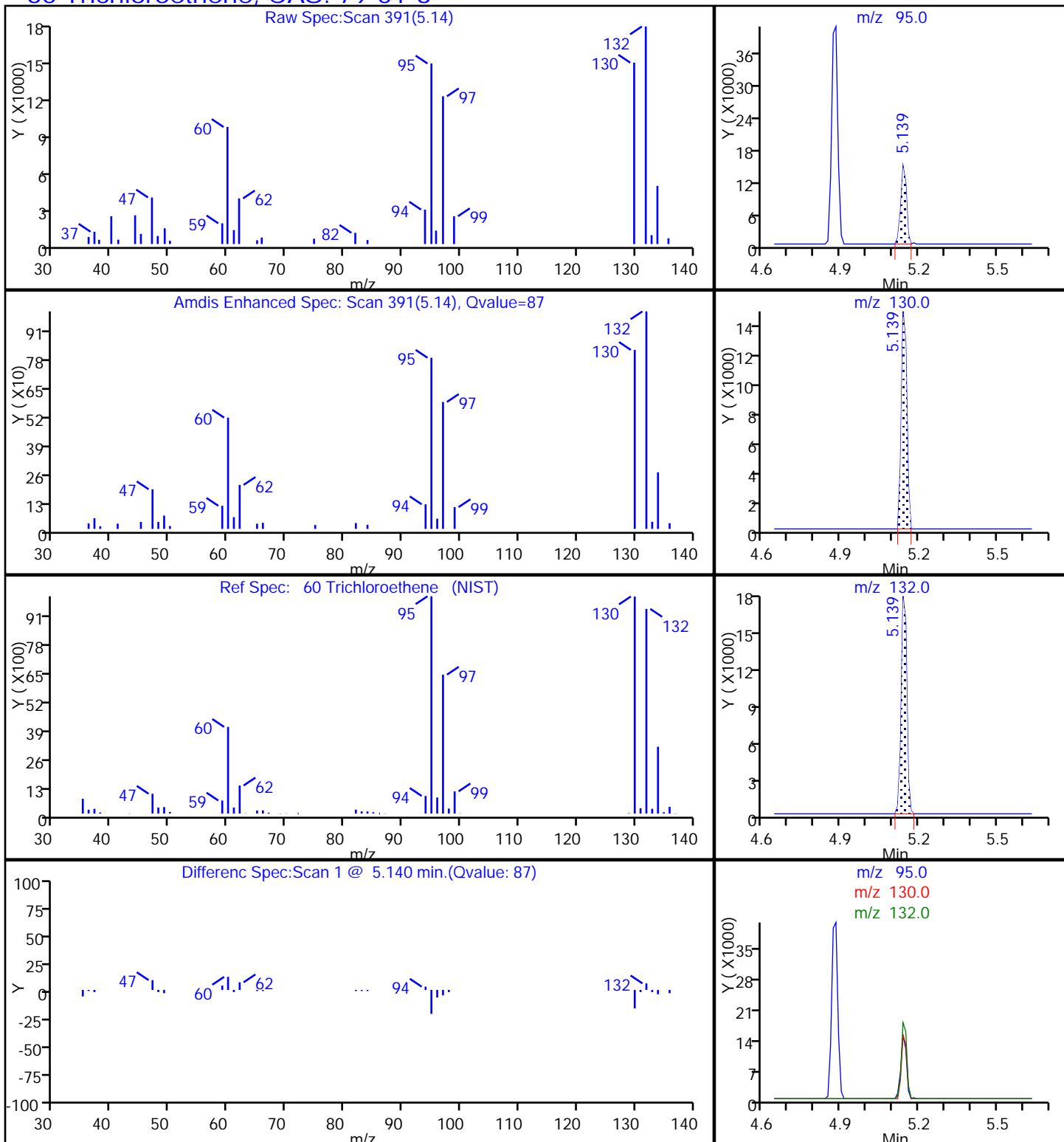
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1242.D

Injection Date: 01-Nov-2017 14:46:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-5

Lab Sample ID: 480-126300-5

Client ID: ML-7I

Operator ID: RR

ALS Bottle#: 15

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

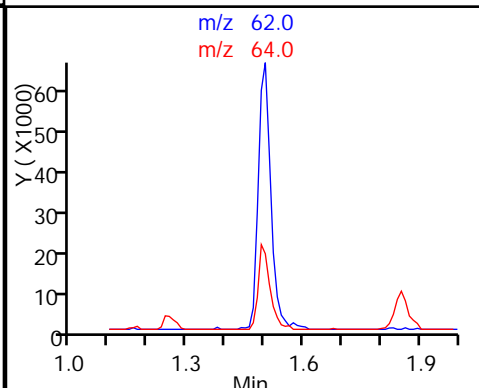
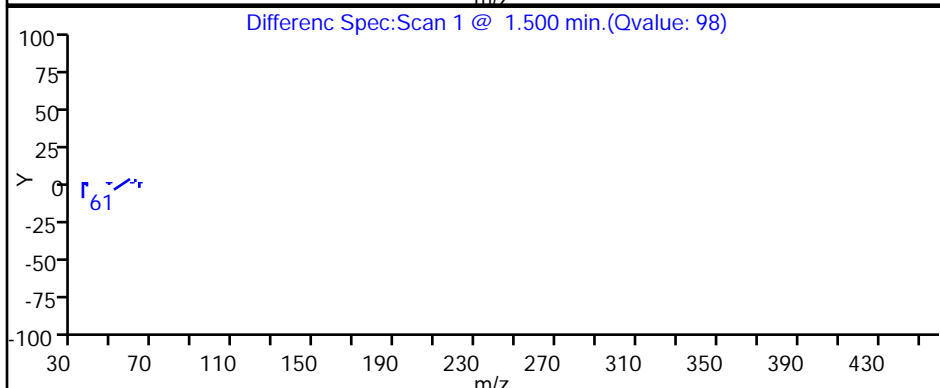
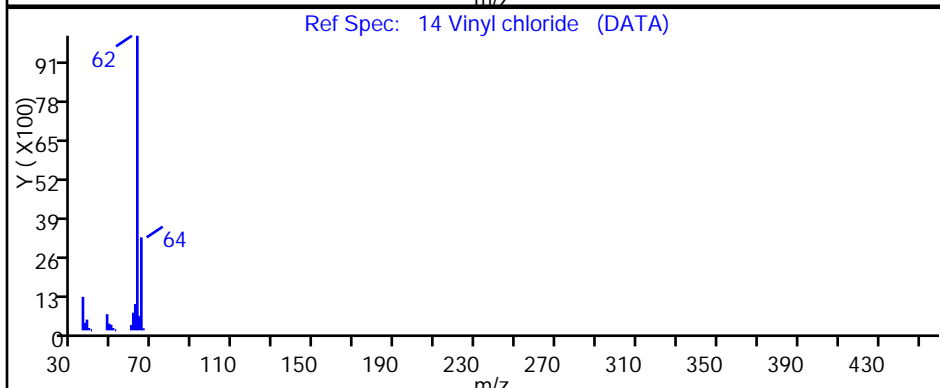
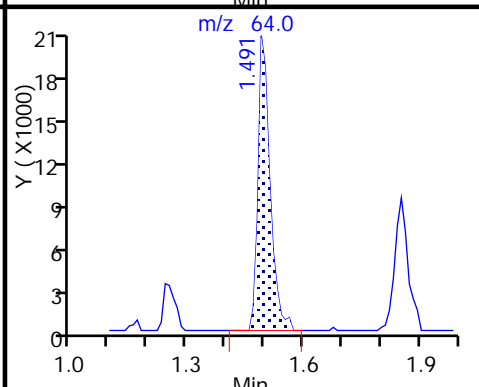
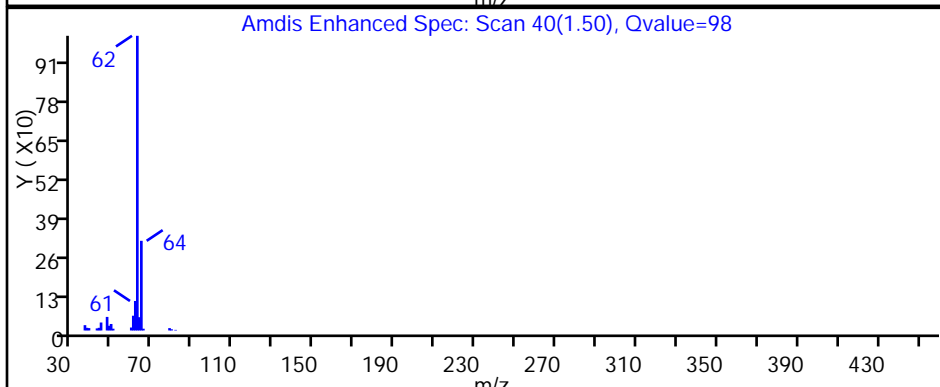
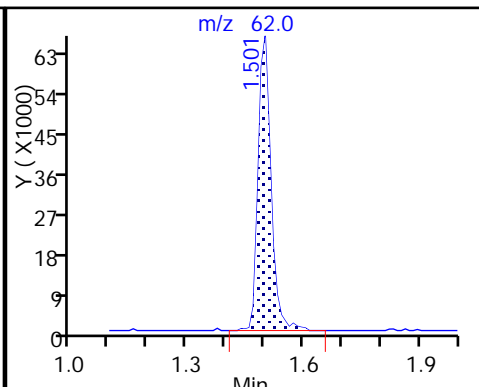
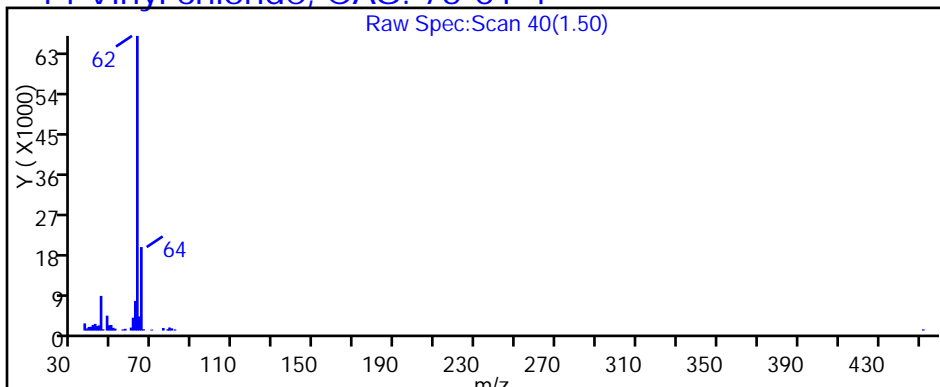
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-126300-6
 Matrix: Water Lab File ID: T1243.D
 Analysis Method: 8260C Date Collected: 10/20/2017 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 15:10
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	250		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	190		20	6.2
75-34-3	1,1-Dichloroethane	520		20	7.6
75-35-4	1,1-Dichloroethene	31		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	61	J	200	60
71-43-2	Benzene	50		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
124-48-1	Dibromochloromethane	ND		20	6.4
75-00-3	Chloroethane	110		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	1000		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
106-93-4	1,2-Dibromoethane	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-126300-6
 Matrix: Water Lab File ID: T1243.D
 Analysis Method: 8260C Date Collected: 10/20/2017 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 15:10
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	26
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	12	J	20	7.2
108-88-3	Toluene	33		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	100		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	230		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-126300-6
 Matrix: Water Lab File ID: T1243.D
 Analysis Method: 8260C Date Collected: 10/20/2017 10:20
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 15:10
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D
 Lims ID: 480-126300-F-6
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 01-Nov-2017 15:10:30 ALS Bottle#: 16 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-126300-e-6
 Misc. Info.: 480-0066898-027
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 17:52:10 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: nowakk

Date: 01-Nov-2017 16:17:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	168945	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	586675	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	267790	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.423	-0.001	91	206749	27.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	293408	25.3	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	733791	24.0	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	166455	22.6	
11 Dichlorodifluoromethane	85		1.232				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62	1.501	1.491	0.010	96	182495	11.6	
15 Bromomethane	94		1.781				ND	
16 Chloroethane	64	1.854	1.843	0.011	94	38040	5.45	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96	2.538	2.507	0.031	57	10829	1.54	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.010	93	71155	9.69	
23 Acetone	43	2.631	2.631	0.000	74	10390	3.05	
25 Carbon disulfide	76		2.693				ND	
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73		3.180				ND	
32 trans-1,2-Dichloroethene	96	3.190	3.191	-0.001	82	2962	0.3569	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	512867	26.0	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	87	513246	51.7	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83		4.279				ND	
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	96	153755	12.5	
52 Cyclohexane	56		4.372				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	53	85521	2.52	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95	5.139	5.139	0.000	91	44805	5.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92	6.102	6.102	-0.001	93	36831	1.67	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166	6.507	6.507	0.000	86	4774	0.6203	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91	7.253	7.253	0.000	42	5261	0.1228	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	7821	0.5256	
91 o-Xylene	106	7.667	7.667	0.000	92	3634	0.2447	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105	7.947	7.947	0.000	91	6209	0.1720	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.051				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		0.7703	

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Worklist Smp#: 27

Client ID: ML-7D

Purge Vol: 5.000 mL

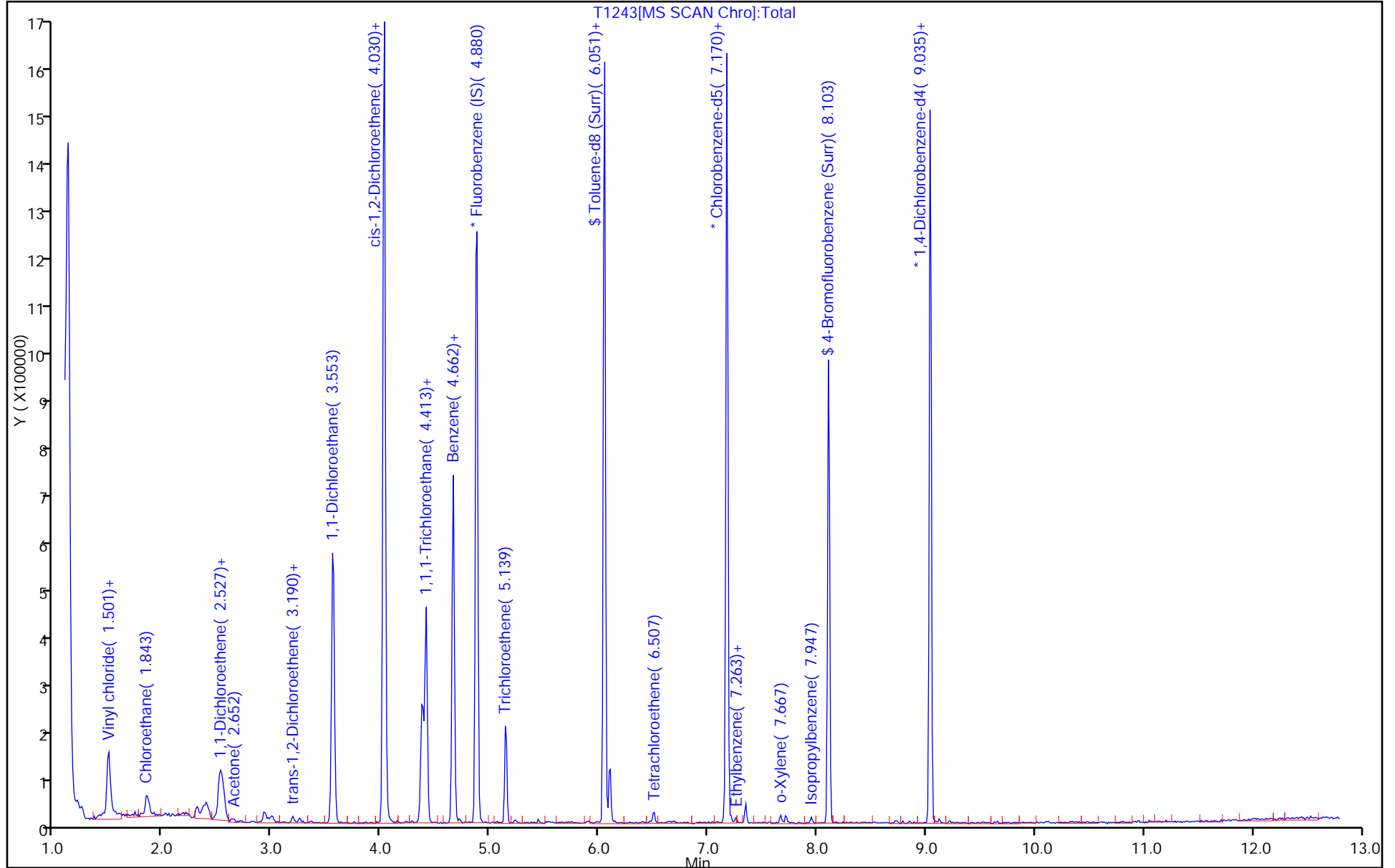
Dil. Factor: 20.0000

ALS Bottle#: 16

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

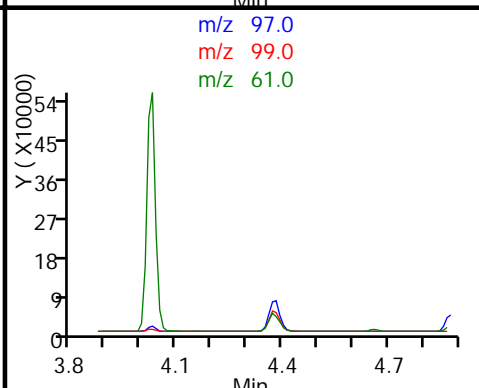
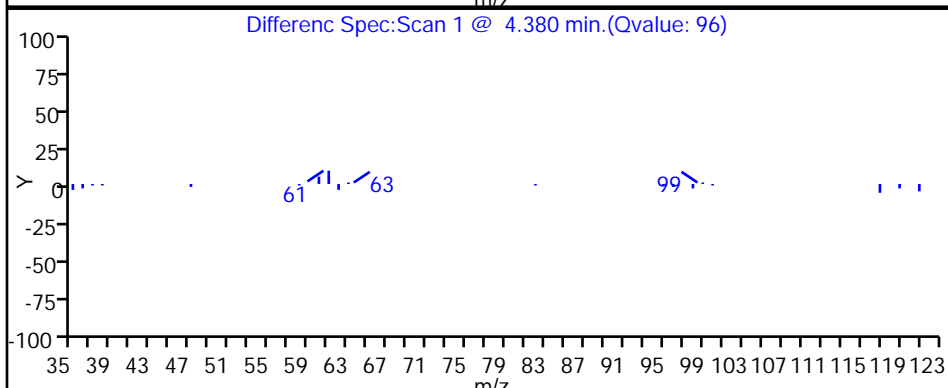
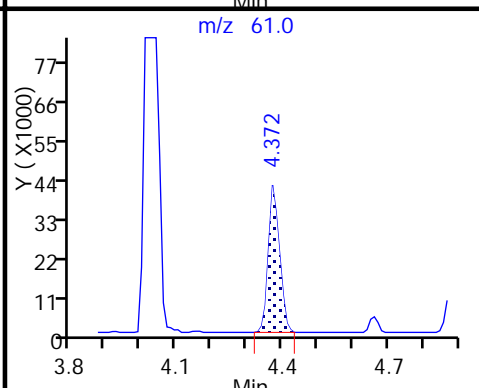
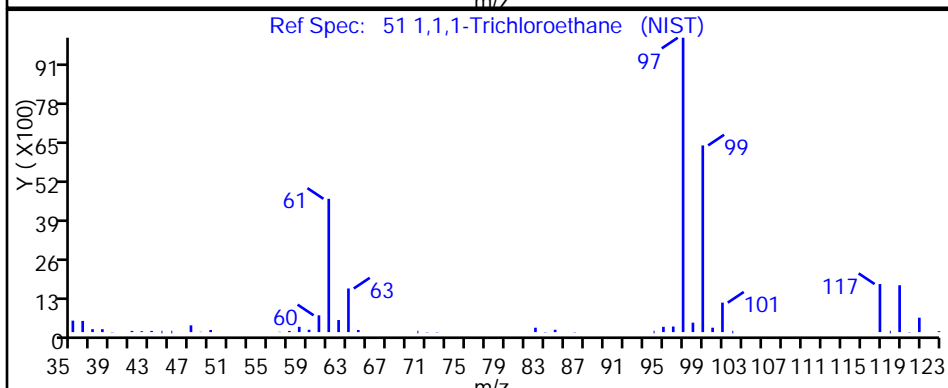
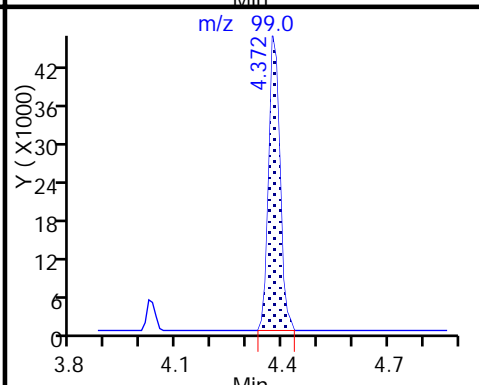
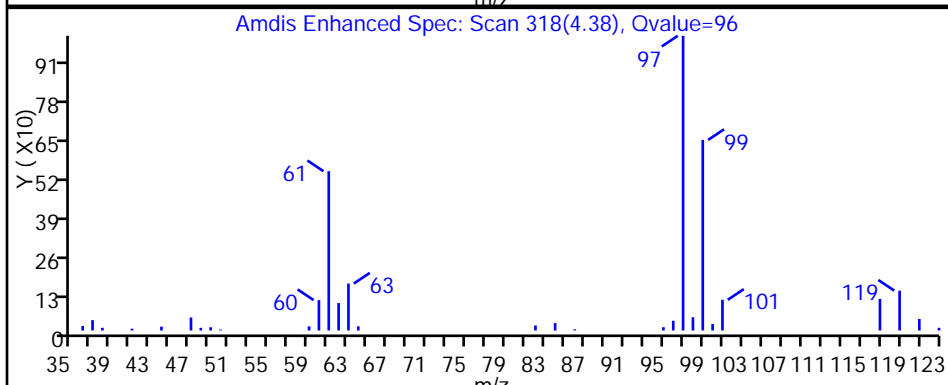
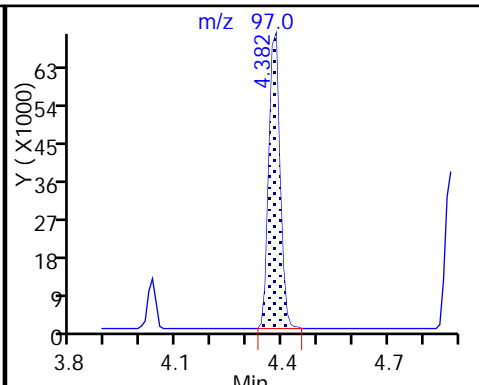
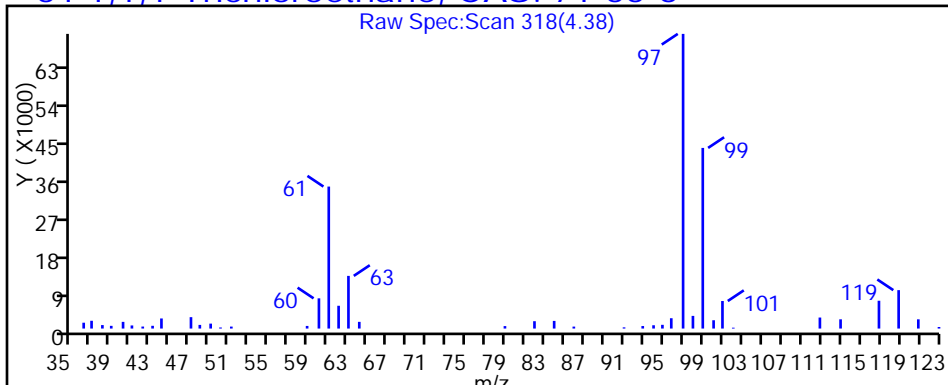
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

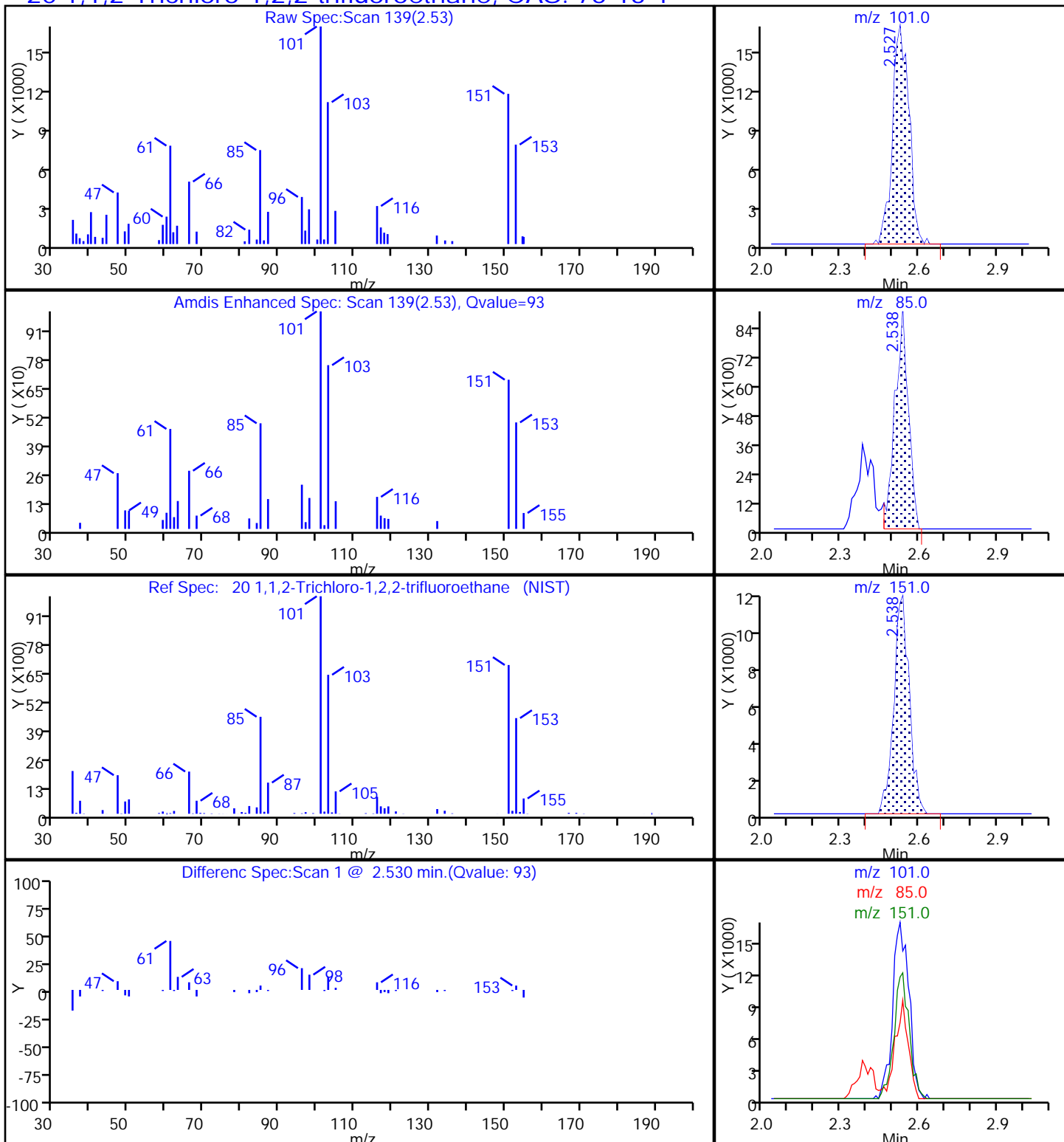
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

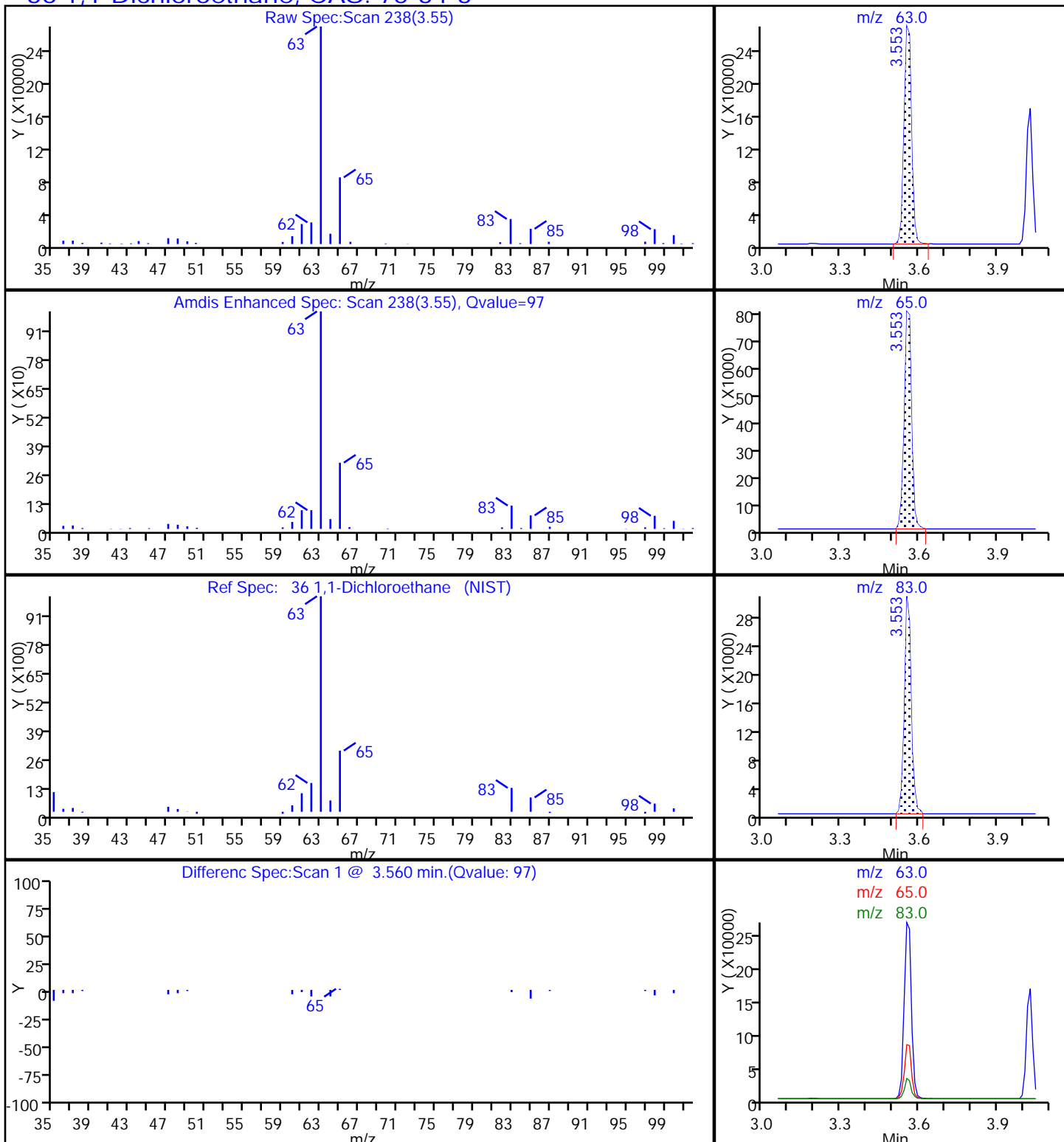
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

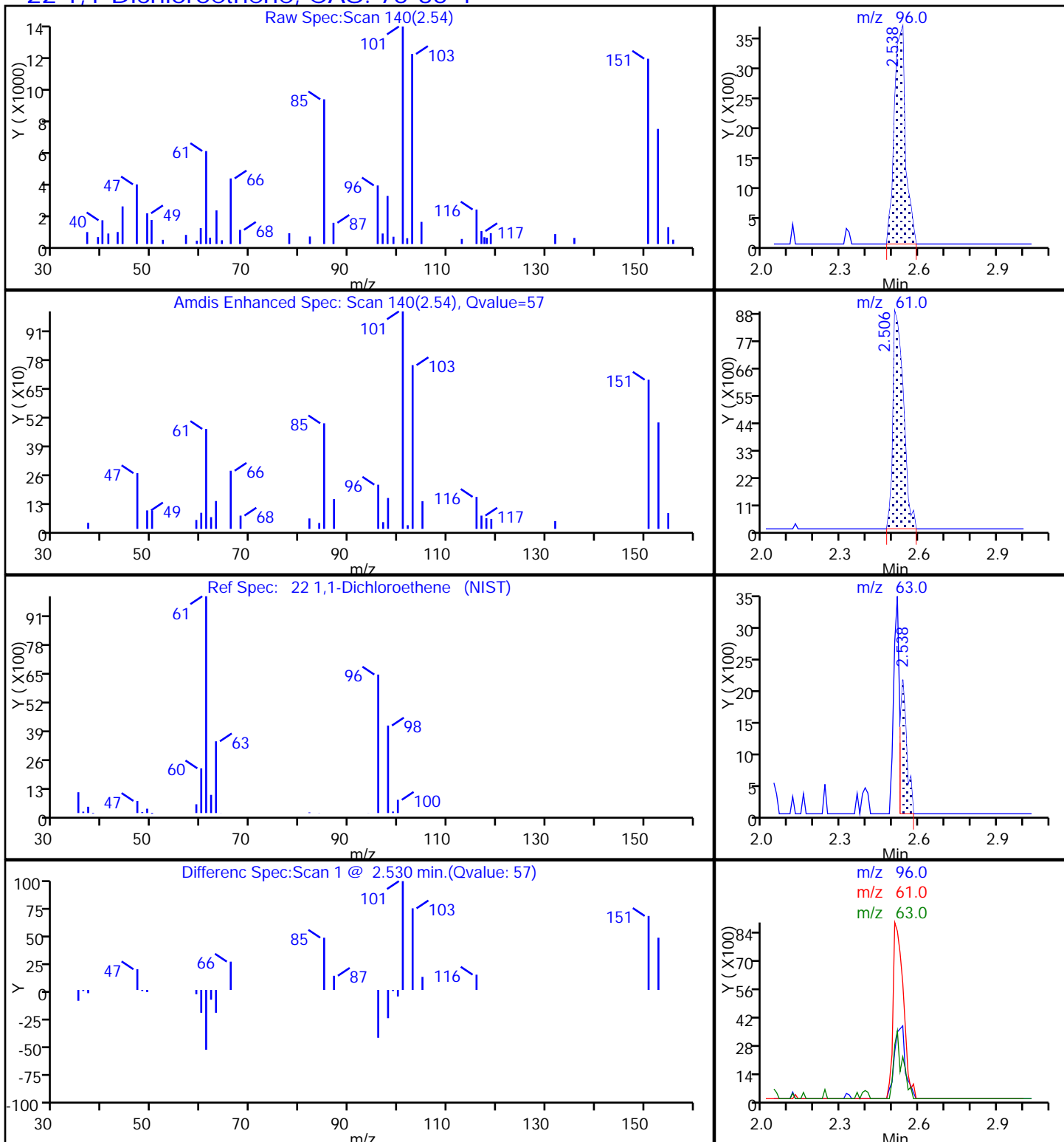
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

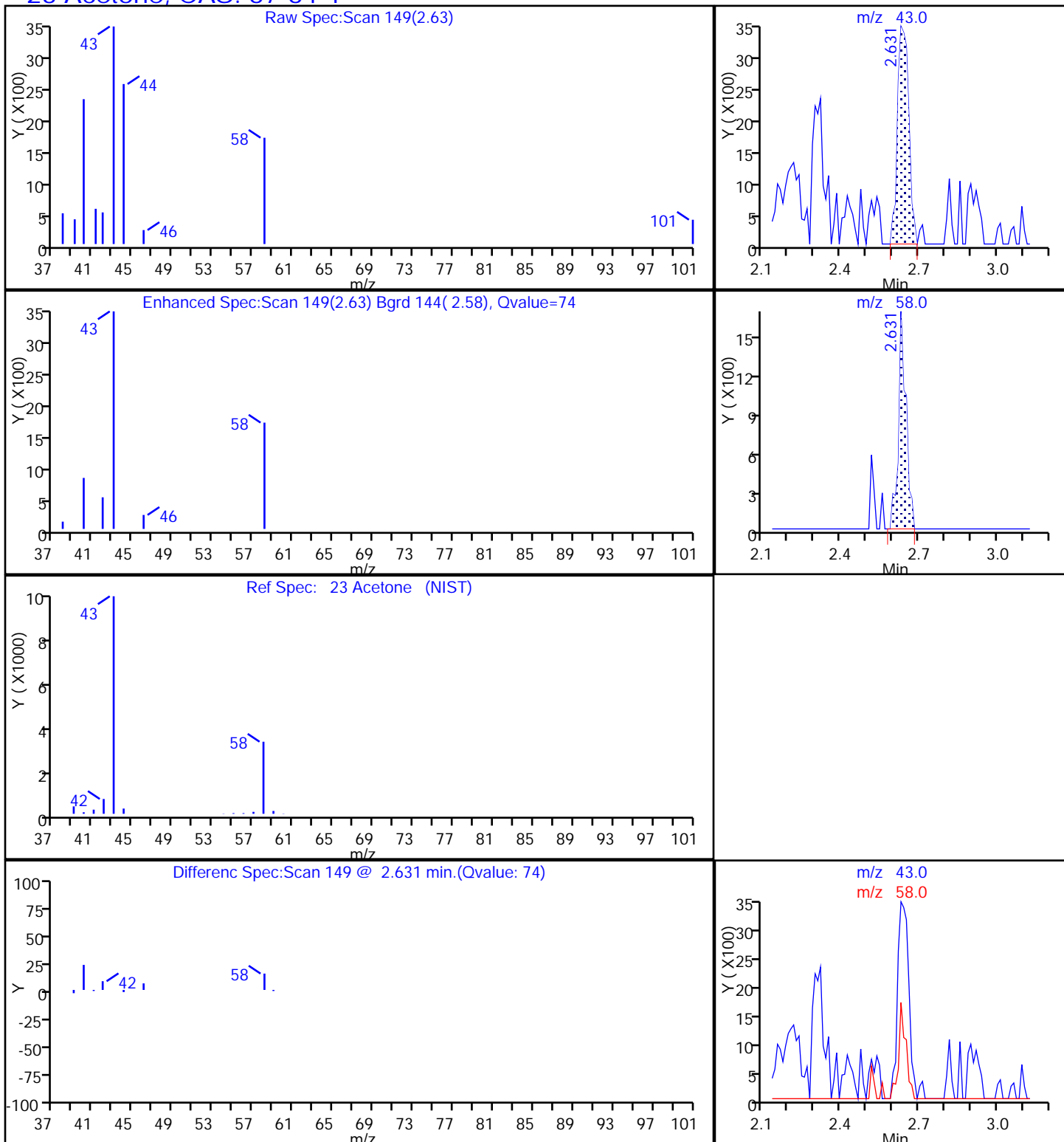
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

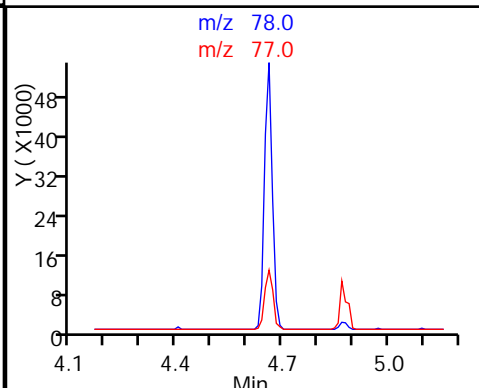
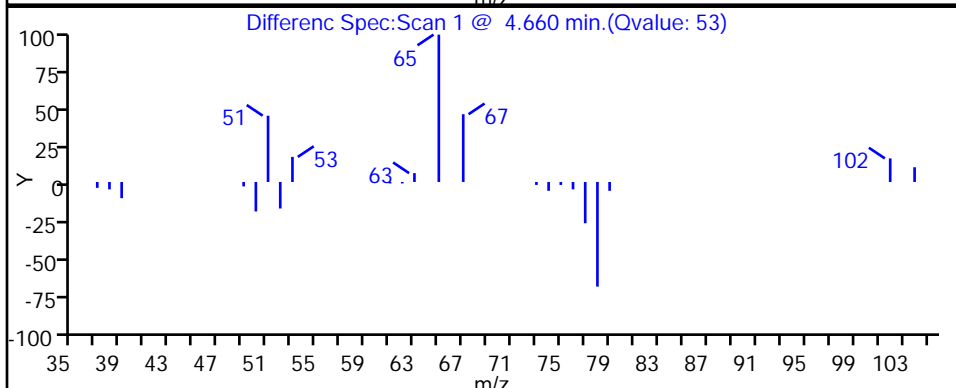
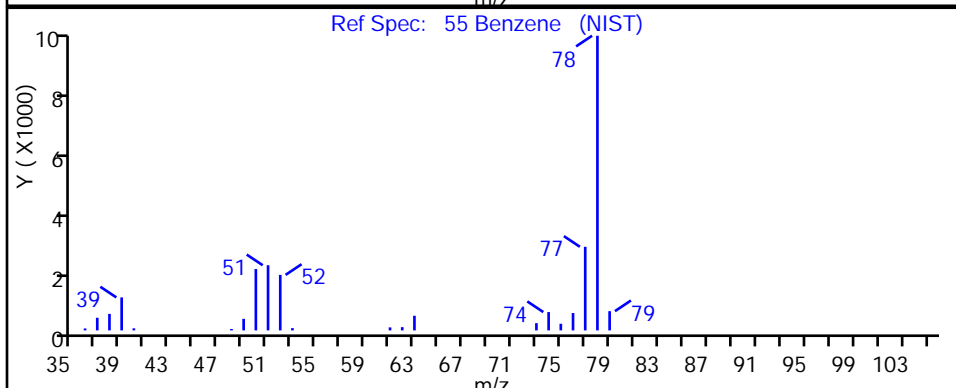
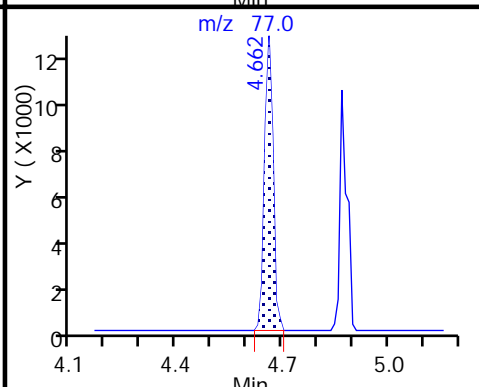
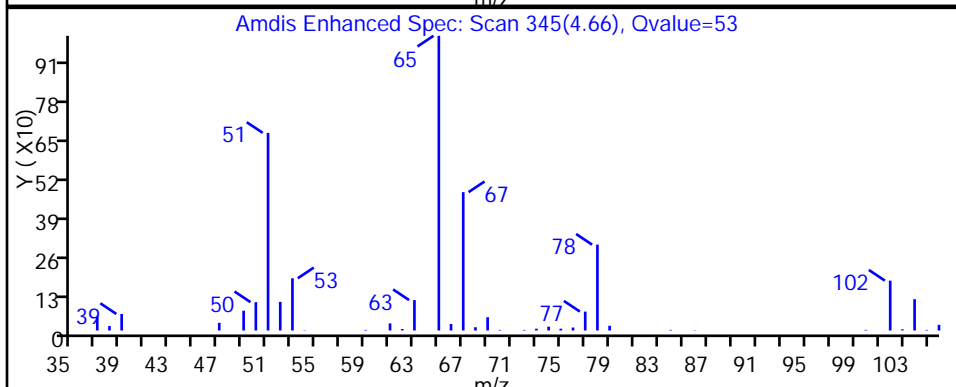
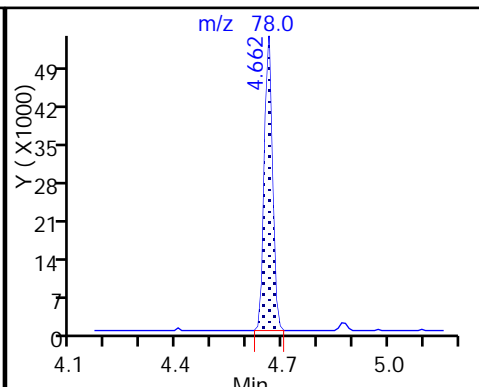
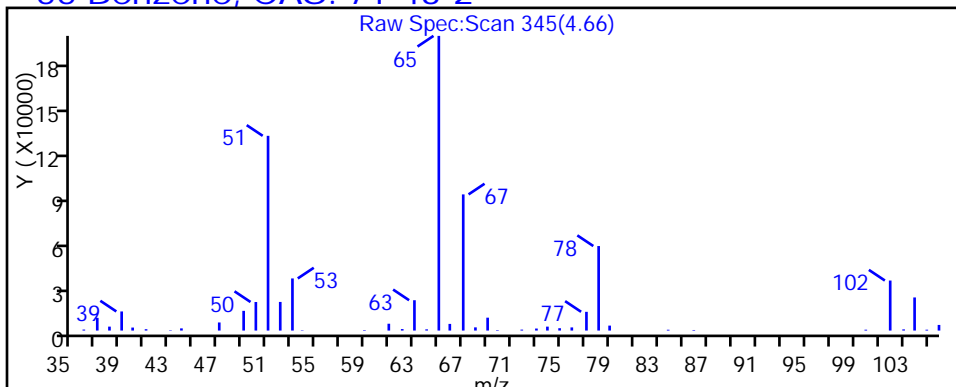
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

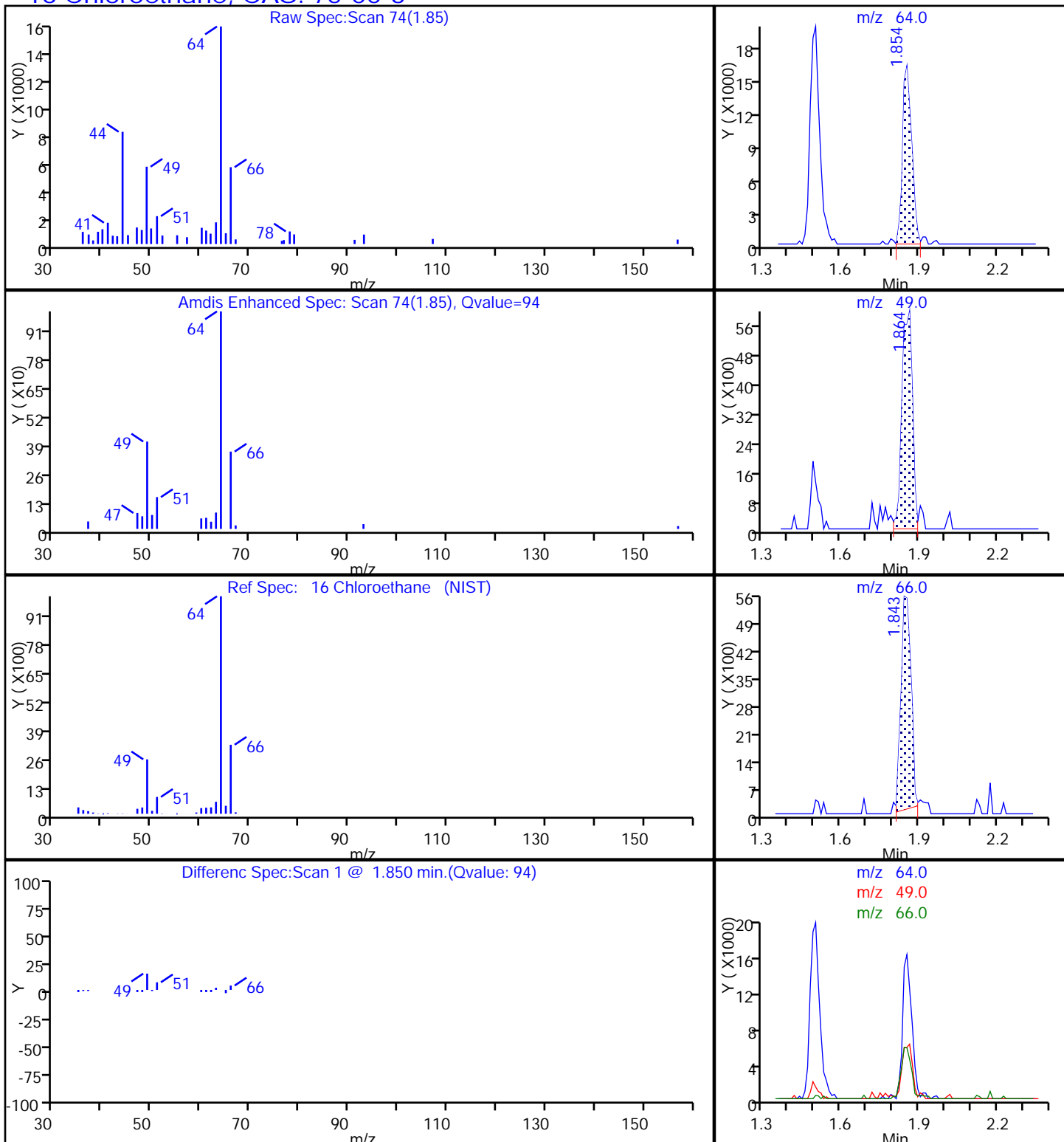
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

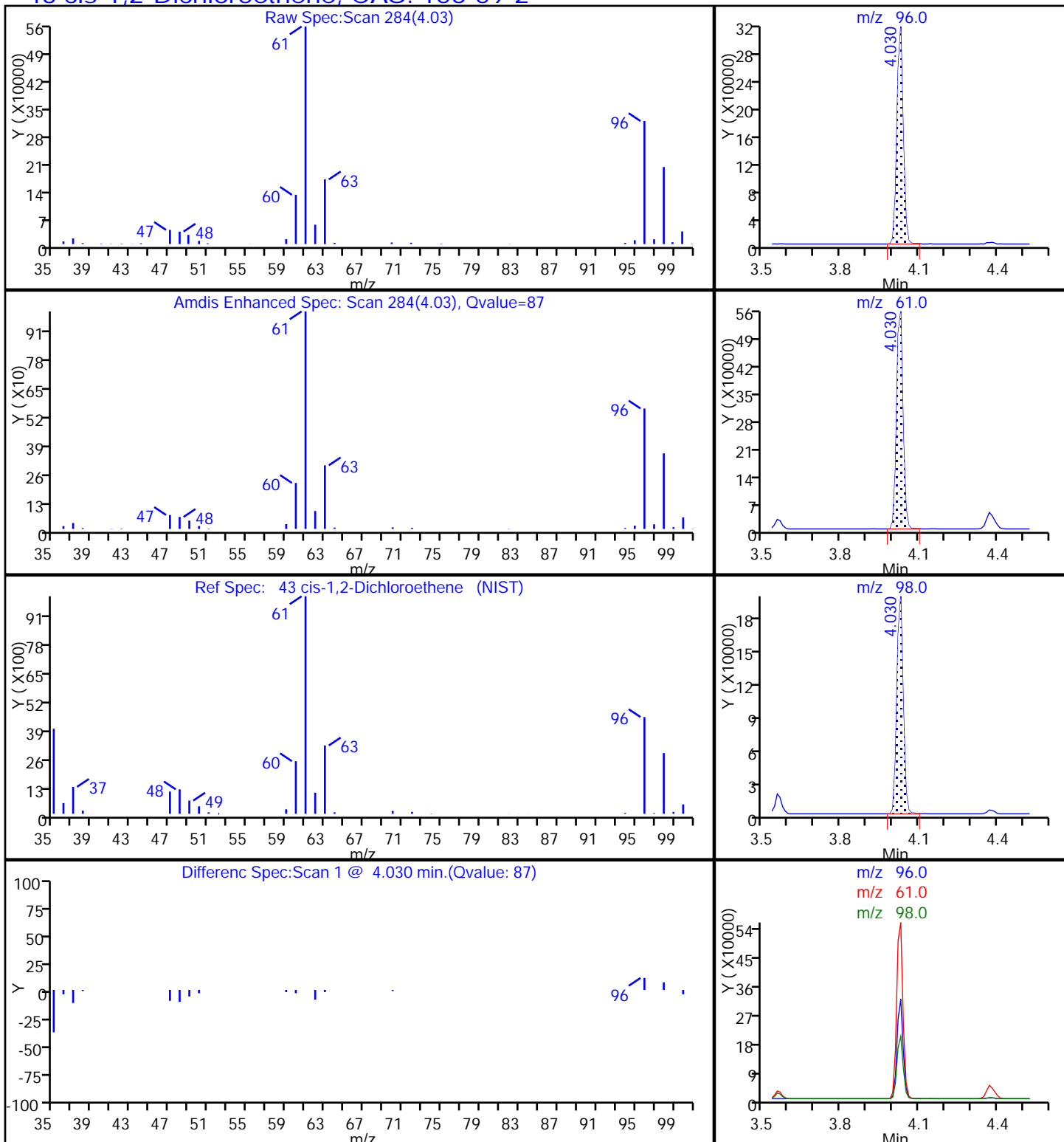
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

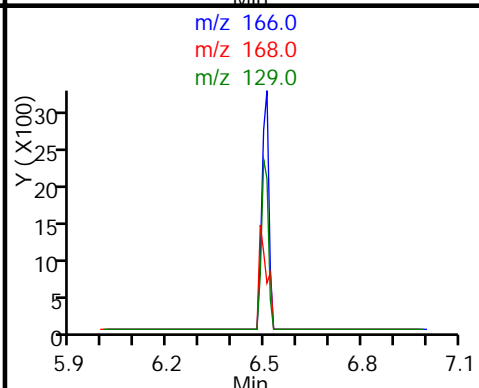
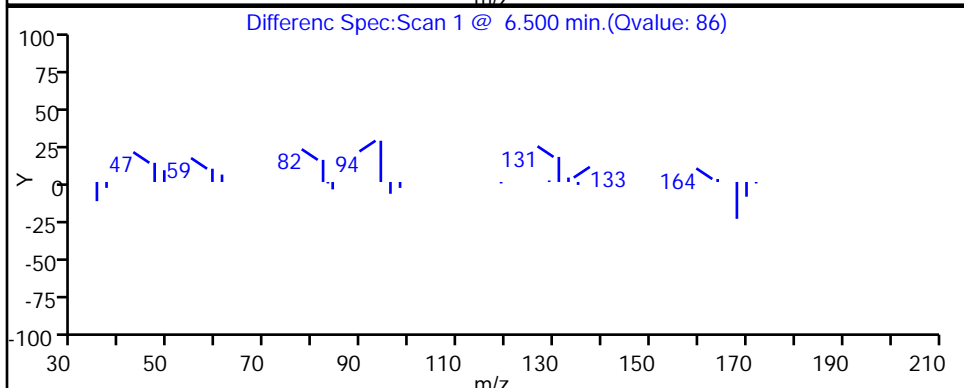
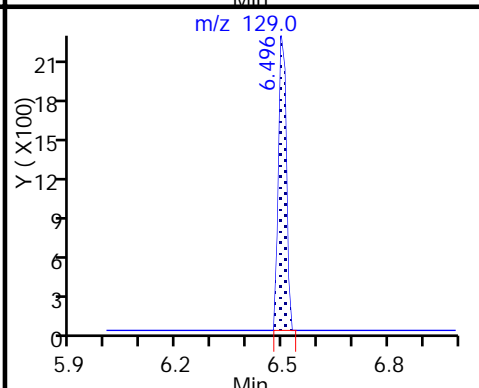
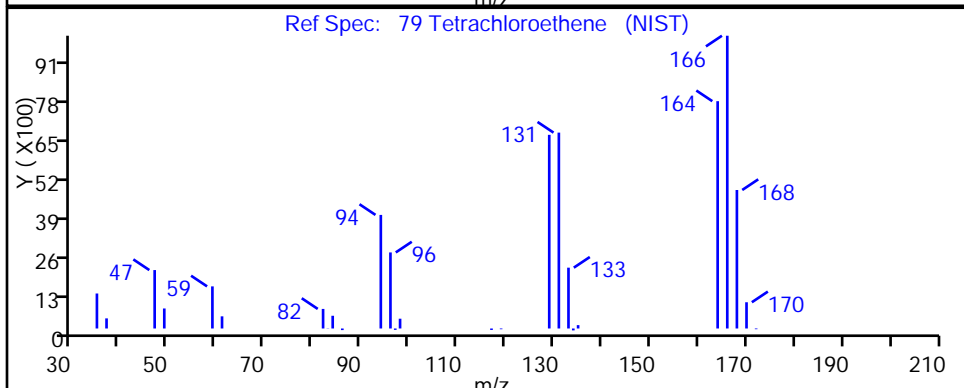
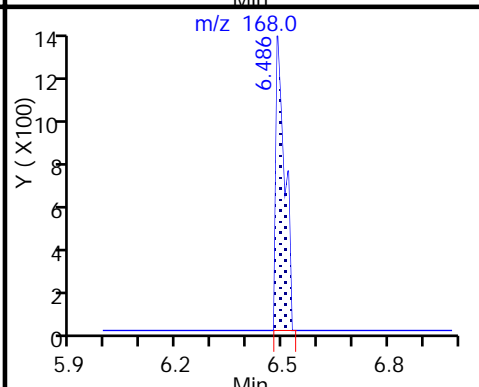
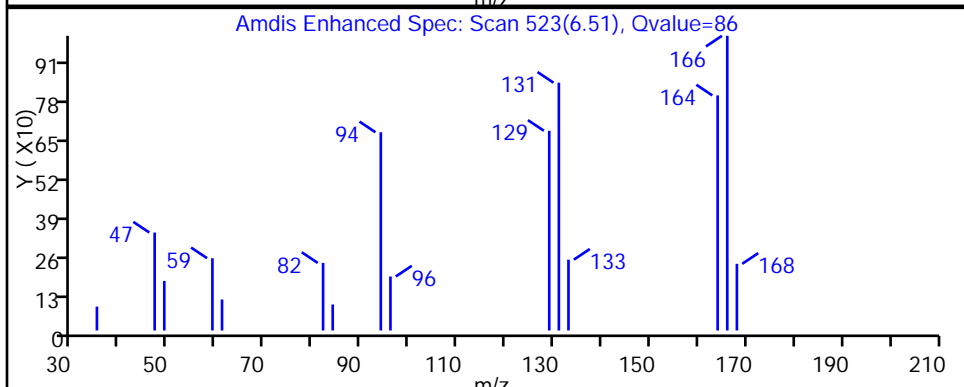
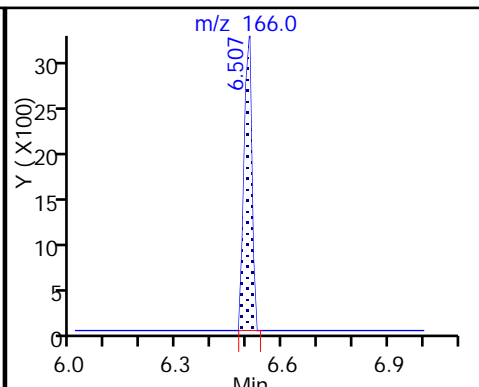
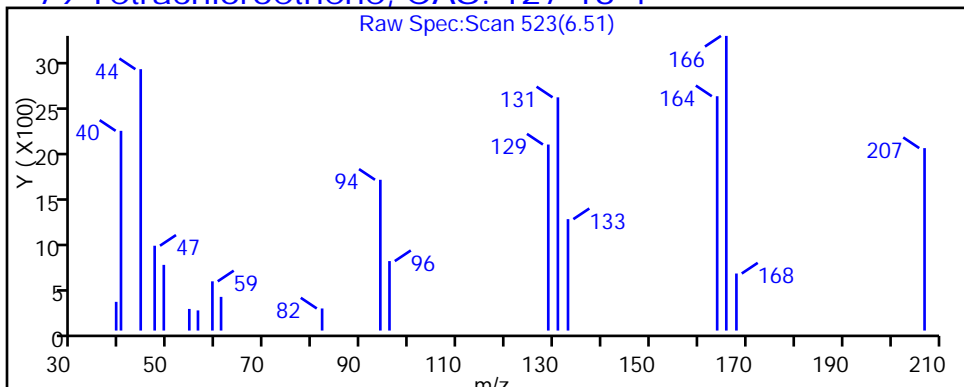
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

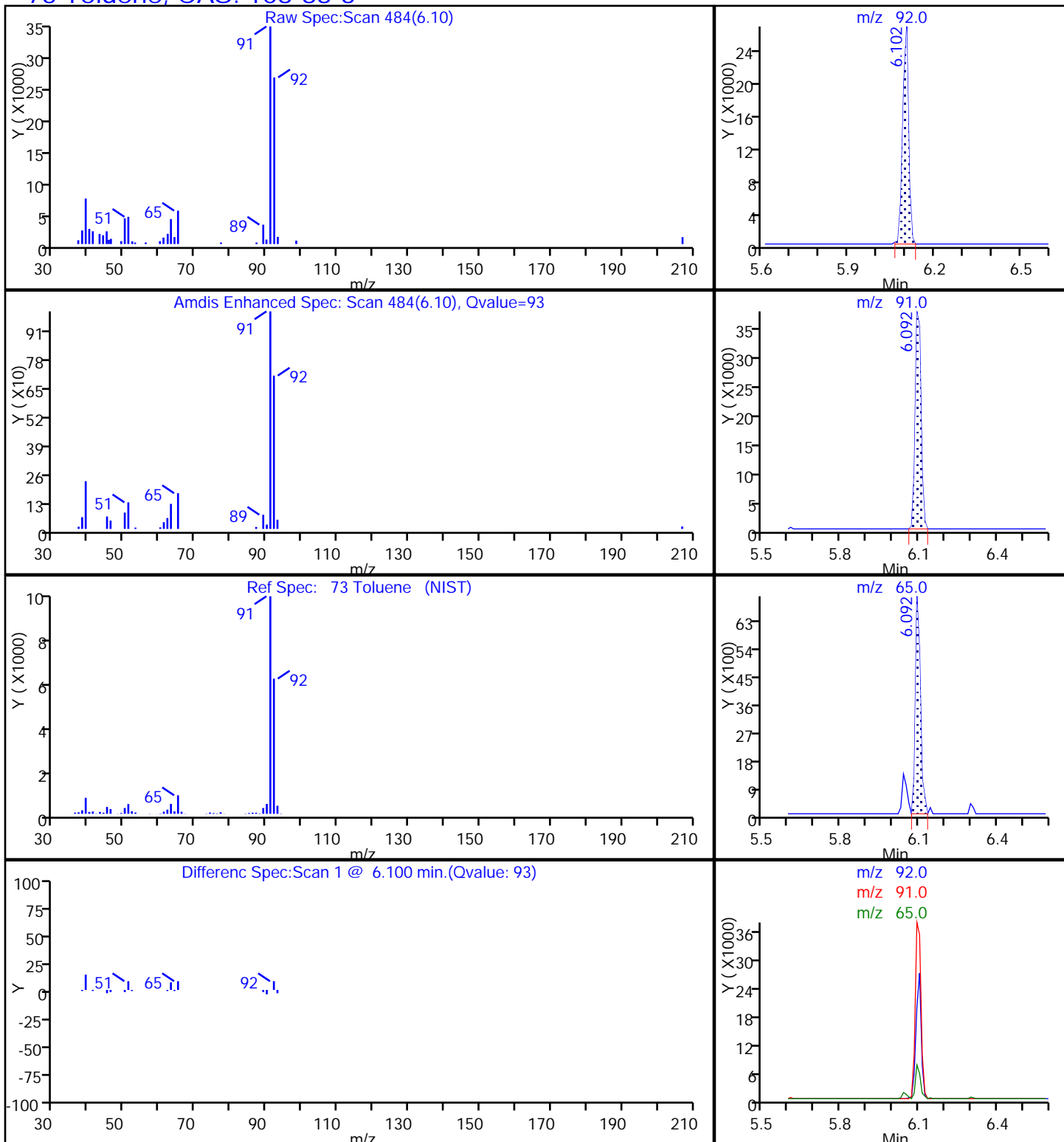
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

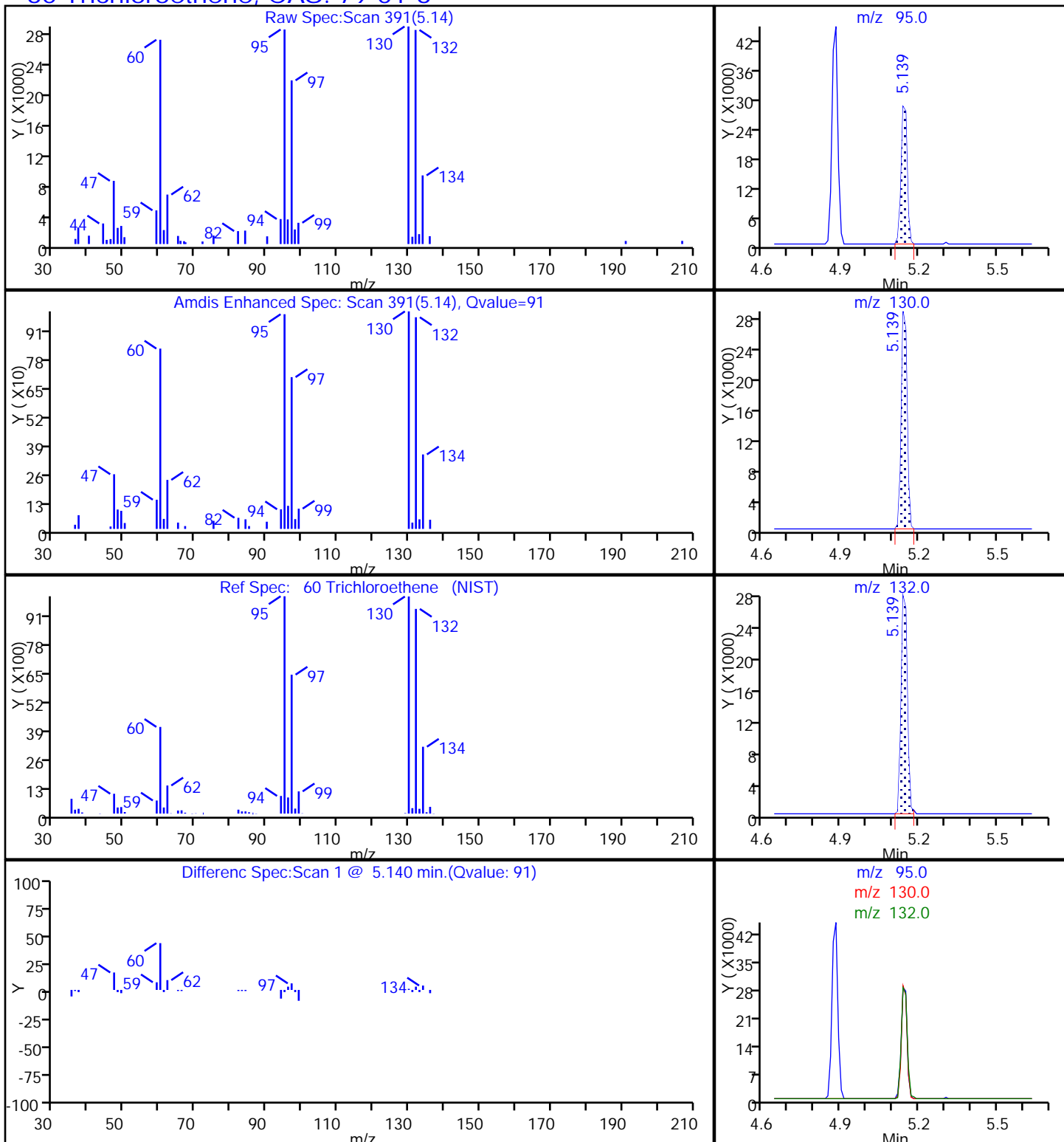
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1243.D

Injection Date: 01-Nov-2017 15:10:30

Instrument ID: HP5975T

Lims ID: 480-126300-F-6

Lab Sample ID: 480-126300-6

Client ID: ML-7D

Operator ID: RR

ALS Bottle#: 16

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

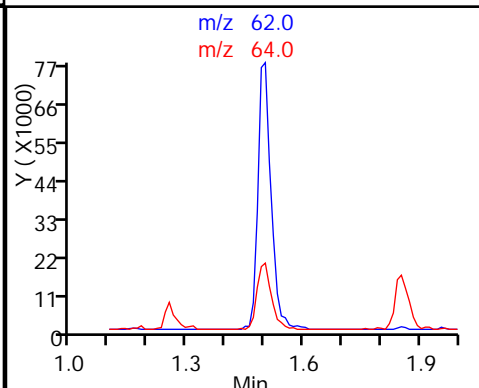
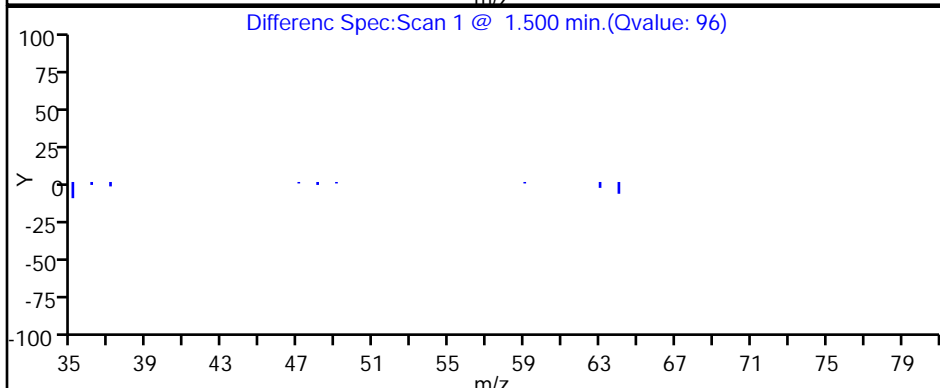
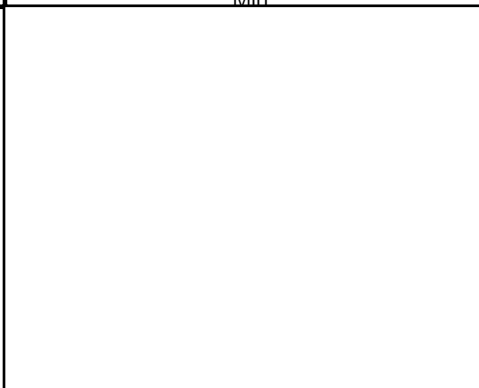
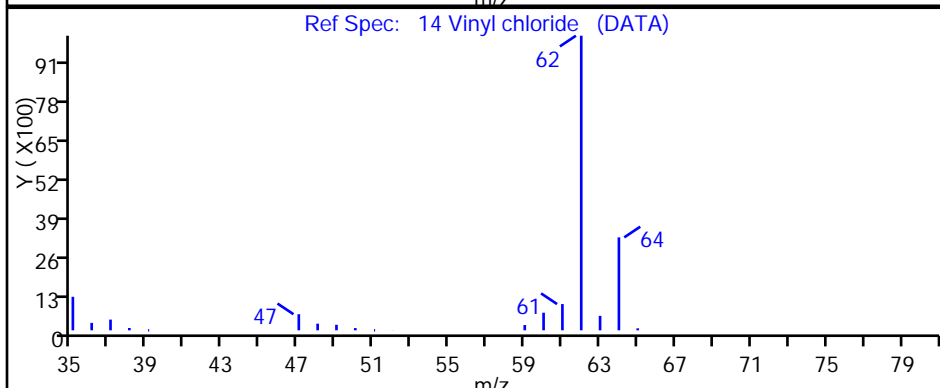
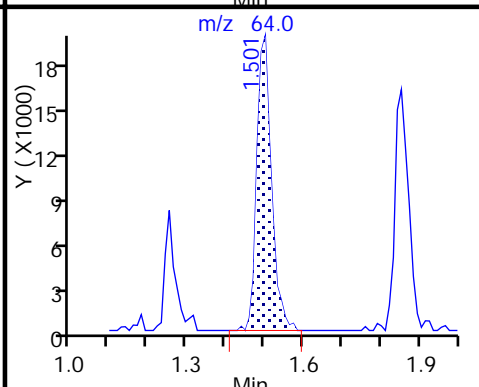
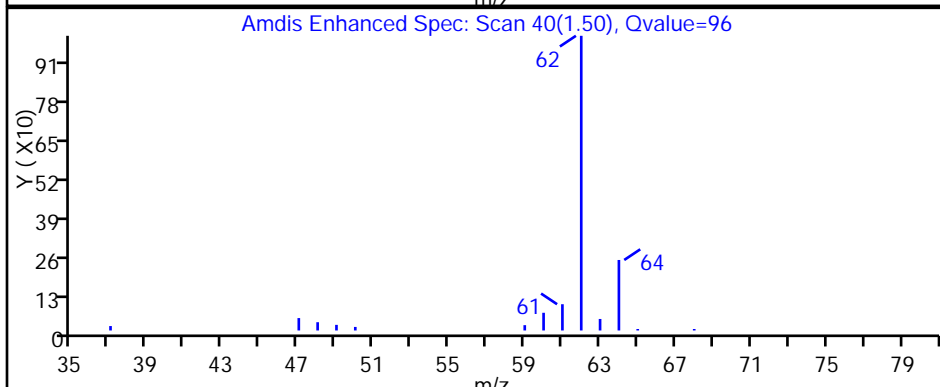
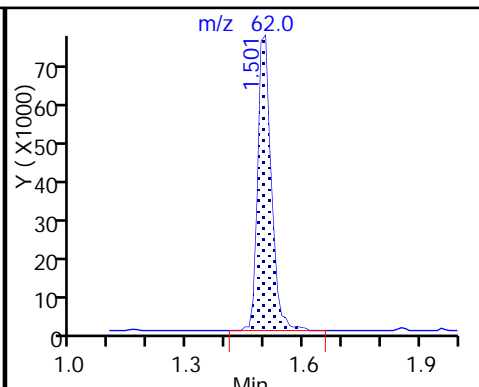
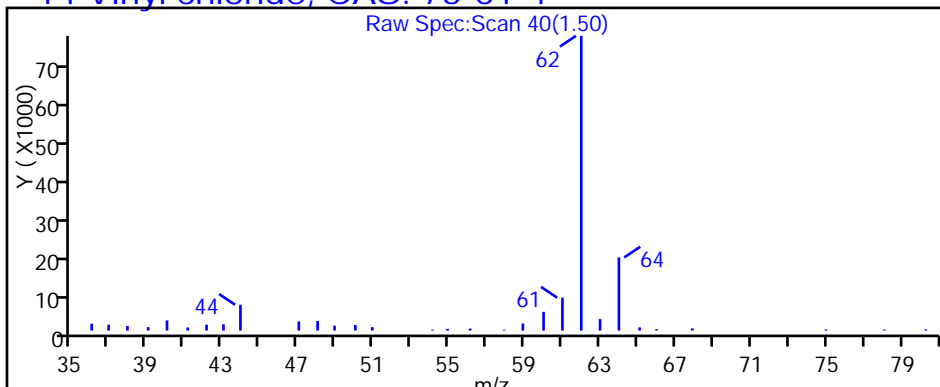
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: DUPLICATE Lab Sample ID: 480-126300-7
 Matrix: Water Lab File ID: T1195.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:31
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	530		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	710		100	31
75-34-3	1,1-Dichloroethane	870		100	38
75-35-4	1,1-Dichloroethene	39	J	100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND		1000	300
71-43-2	Benzene	ND		100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	43	J	100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	3200		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: DUPLICATE Lab Sample ID: 480-126300-7
 Matrix: Water Lab File ID: T1195.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:31
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	170		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	280		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	1000		100	90
1330-20-7	Xylenes, Total	ND		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: DUPLICATE Lab Sample ID: 480-126300-7
 Matrix: Water Lab File ID: T1195.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 17:31
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D
 Lims ID: 480-126300-B-7
 Client ID: DUPLICATE
 Sample Type: Client
 Inject. Date: 31-Oct-2017 17:31:30 ALS Bottle#: 24 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-126300-b-7
 Misc. Info.: 480-0066859-030
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 19:33:19 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: sonkera

Date: 31-Oct-2017 18:25:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	96	176037	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	577790	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	259486	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	92	199576	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	269866	22.3	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	709980	23.6	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	-0.001	80	164953	22.7	
11 Dichlorodifluoromethane	85		1.242				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62	1.501	1.501	0.000	98	172345	10.5	
15 Bromomethane	94		1.792				ND	
16 Chloroethane	64	1.843	1.854	-0.011	50	3090	0.4252	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96	2.527	2.517	0.010	39	2824	0.3857	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	94	54205	7.09	
23 Acetone	43	2.631	2.631	0.000	78	3147	0.8864	
25 Carbon disulfide	76	2.683	2.703	-0.020	73	1482	0.0523	7
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	1	283	0.0114	7M
32 trans-1,2-Dichloroethene	96	3.190	3.191	-0.001	31	2166	0.2505	
36 1,1-Dichloroethane	63	3.563	3.553	0.010	96	179375	8.74	
43 cis-1,2-Dichloroethene	96	4.030	4.030	0.000	88	328331	31.7	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83	4.279	4.279	0.000	1	505	0.0320	7M
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	96	67708	5.30	
52 Cyclohexane	56		4.382				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78	4.662	4.662	0.000	39	12654	0.3585	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	1	1302	0.0757	7
60 Trichloroethene	95	5.149	5.139	0.010	89	25357	2.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92	6.102	6.103	-0.001	94	36316	1.67	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166	6.507	6.496	0.011	36	2415	0.3186	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91	7.253	7.253	0.000	29	9240	0.2190	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	4901	0.3345	
91 o-Xylene	106	7.657	7.667	-0.010	94	4151	0.2838	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105		7.947				ND	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.040				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		0.6182	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Worklist Smp#: 30

Client ID: DUPLICATE

Purge Vol: 5.000 mL

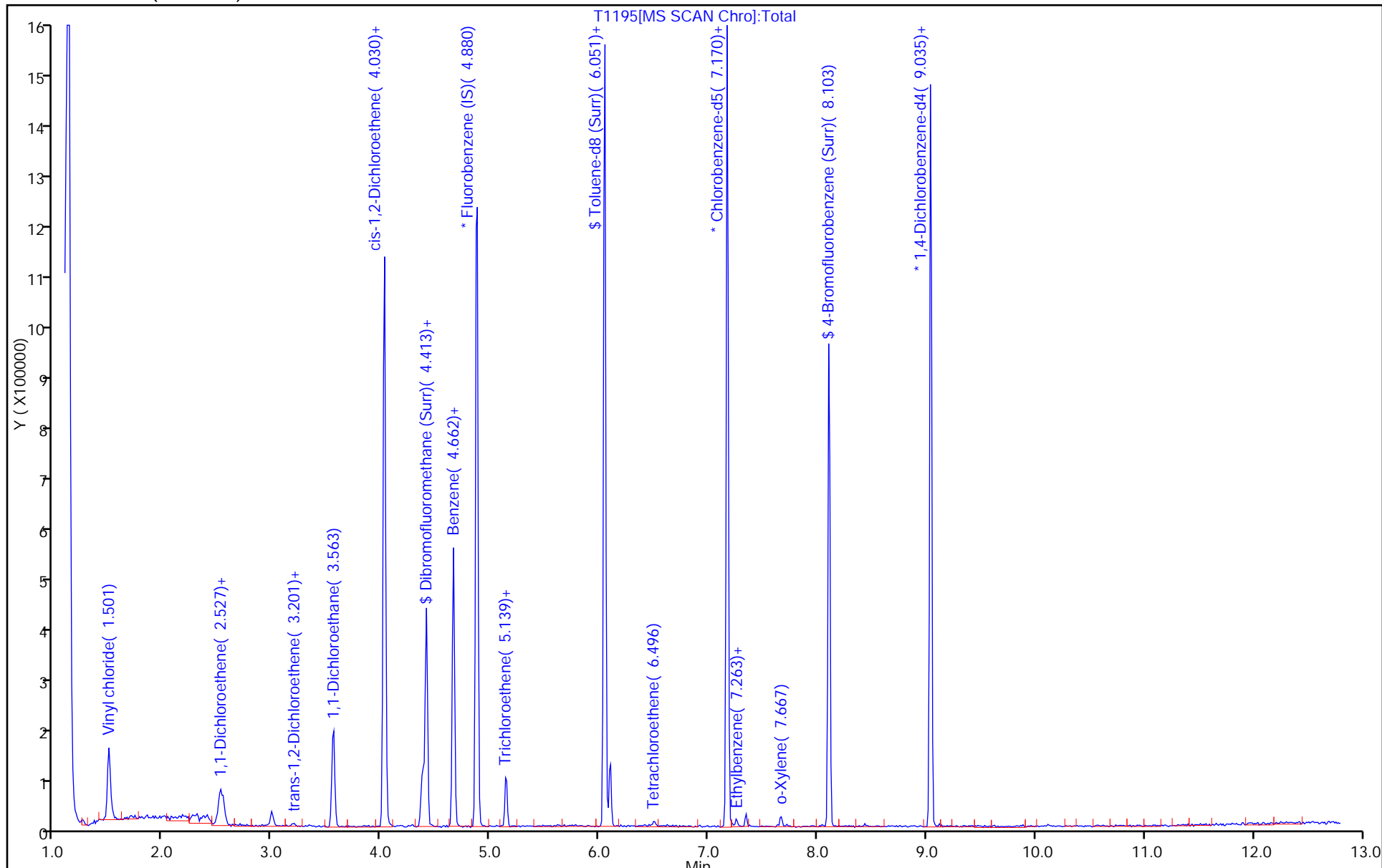
Dil. Factor: 100.0000

ALS Bottle#: 24

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

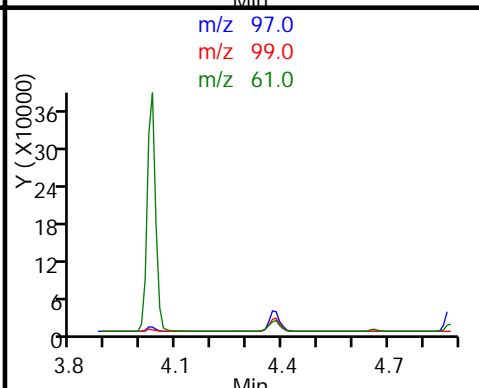
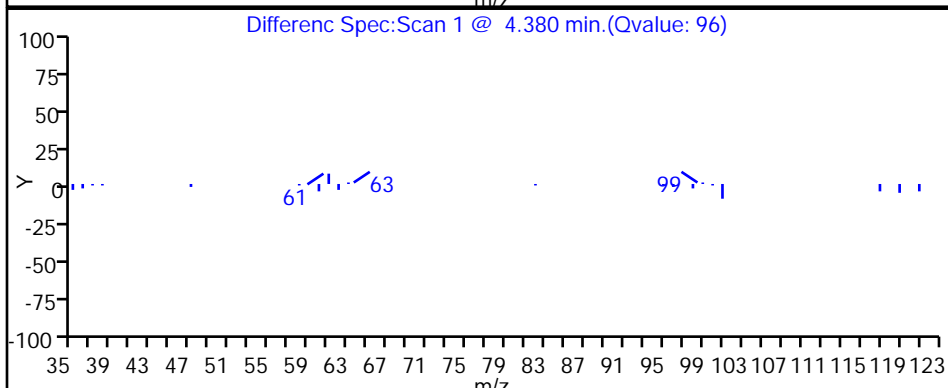
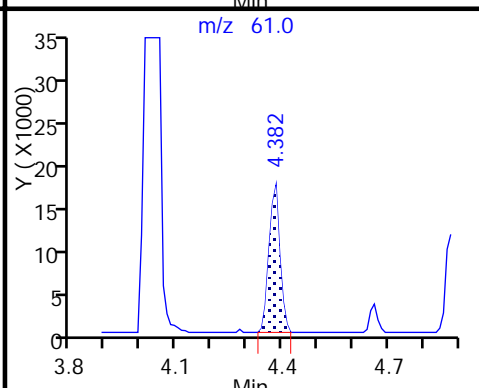
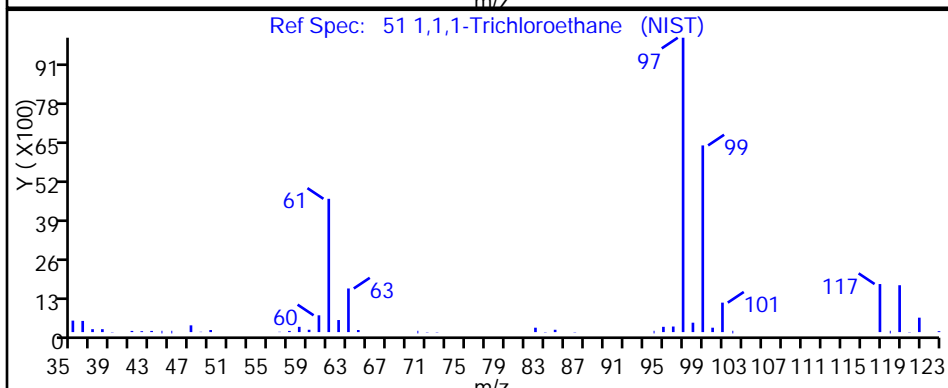
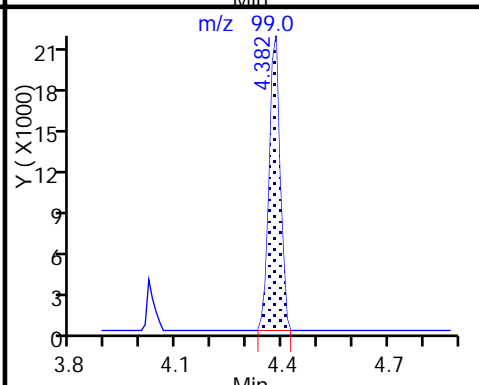
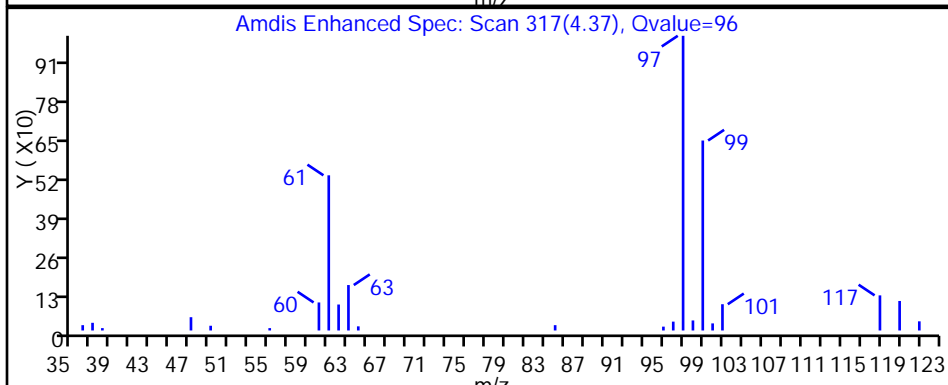
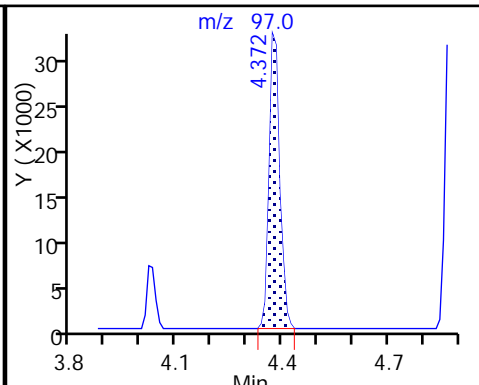
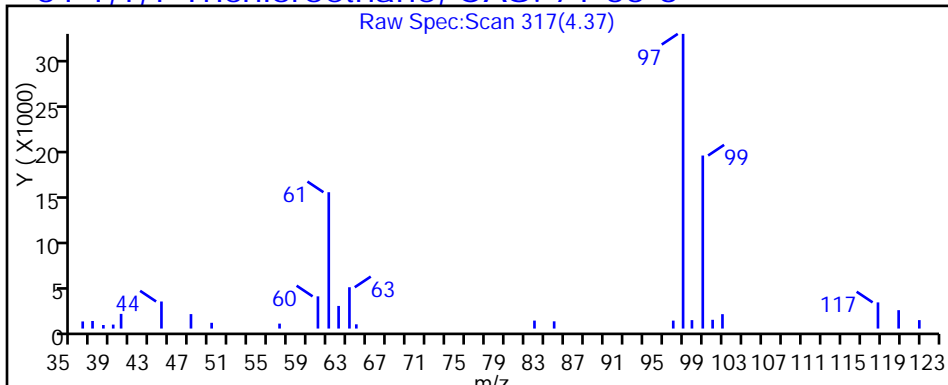
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

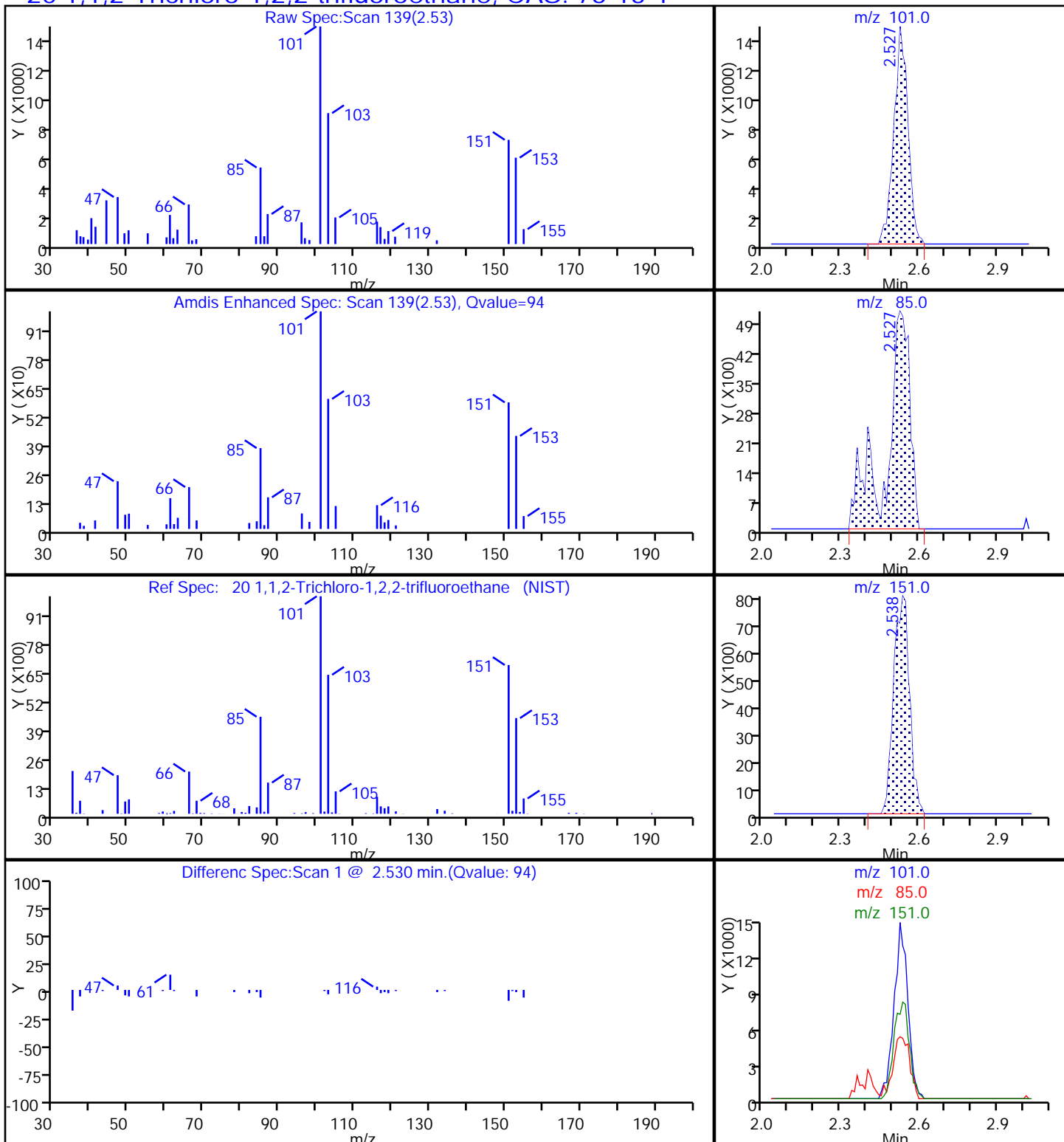
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

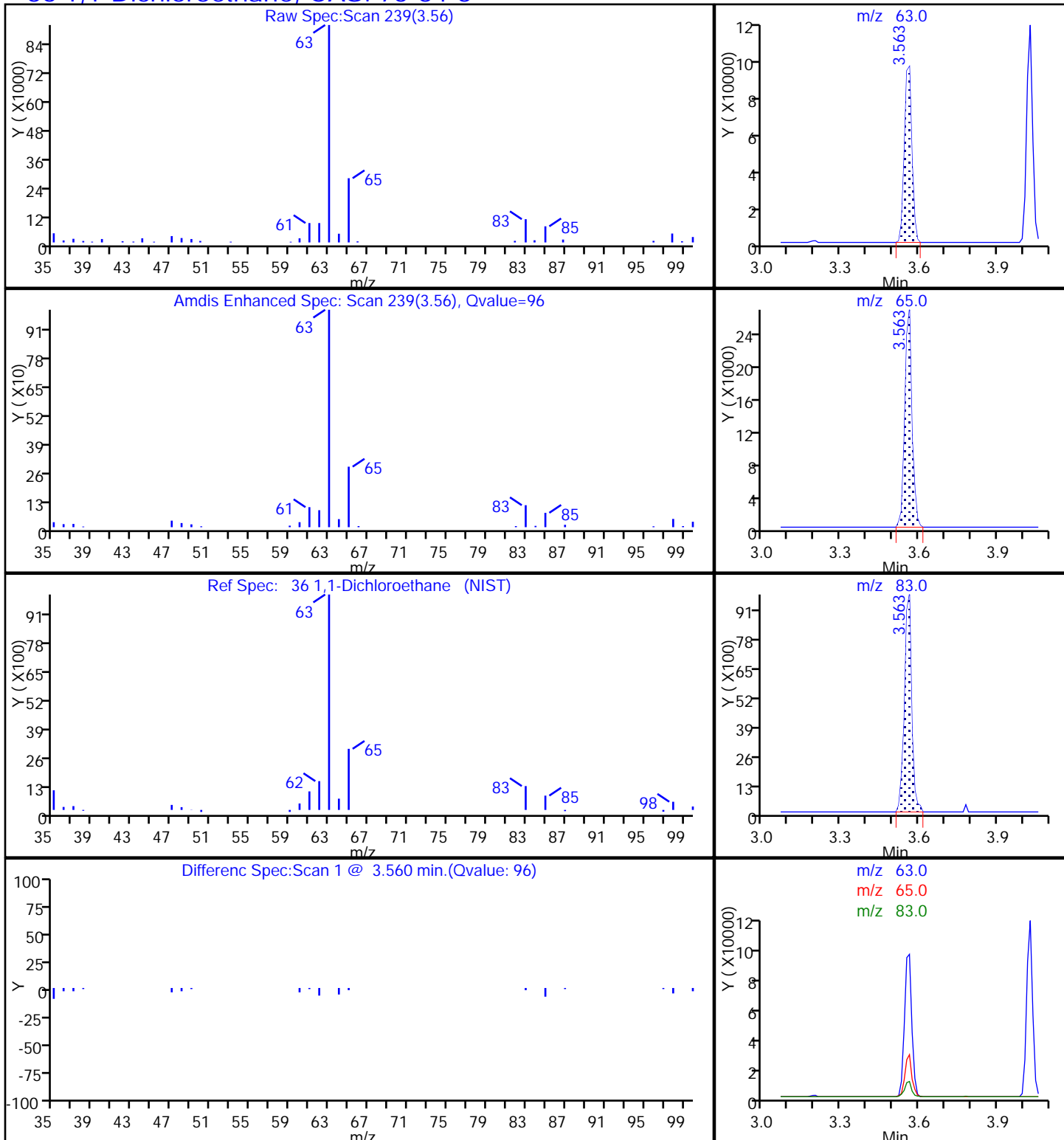
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

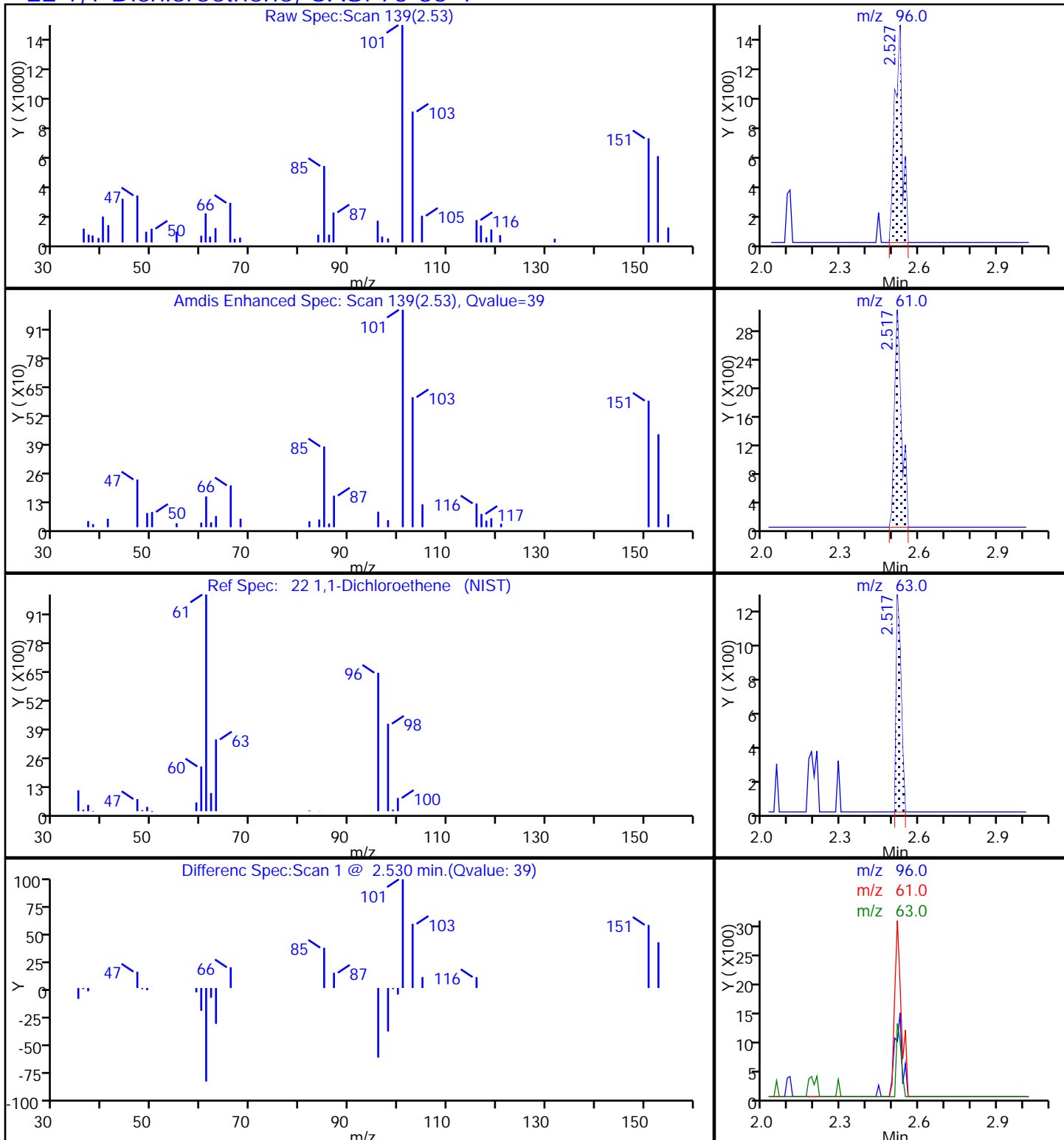
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

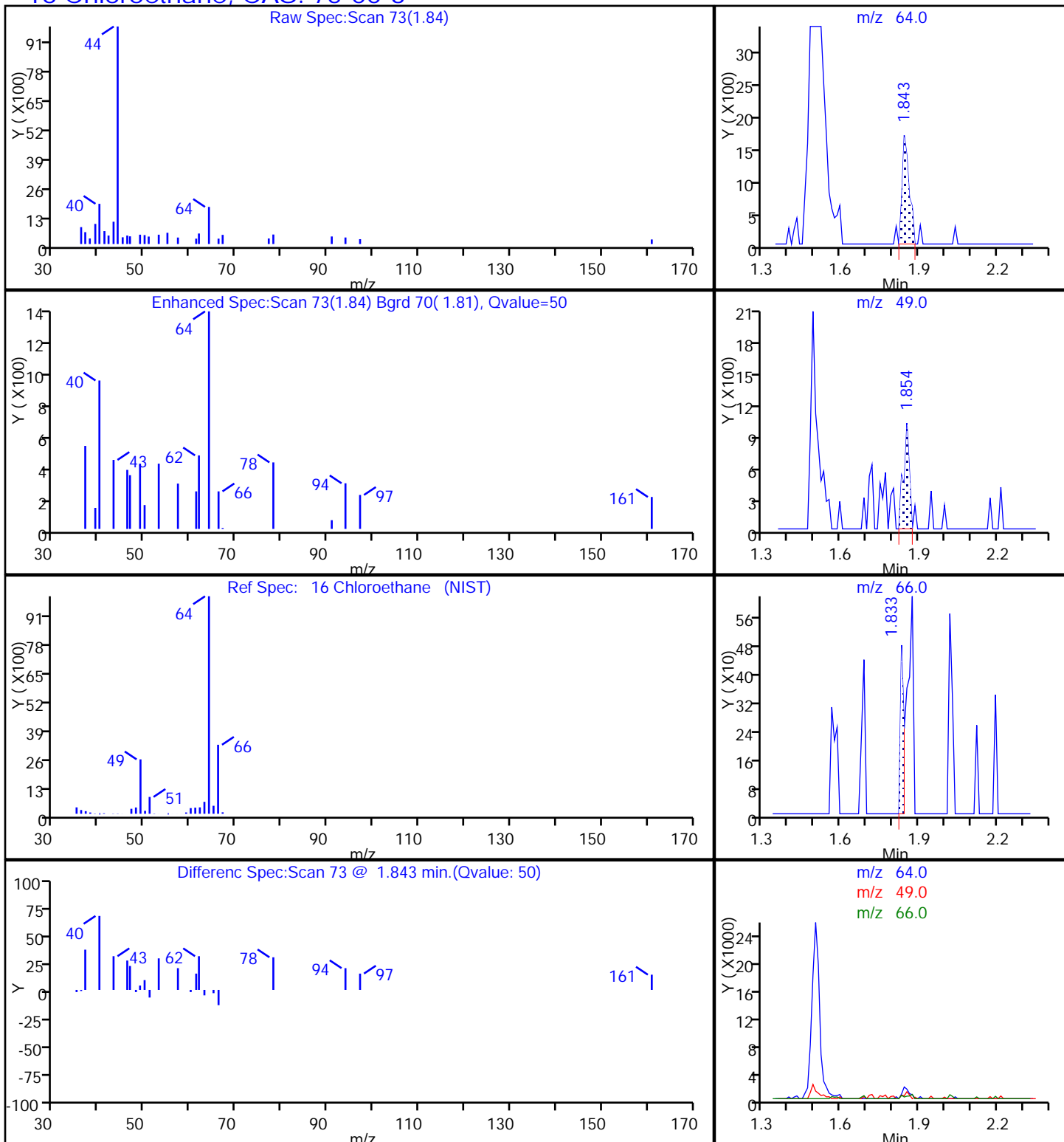
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

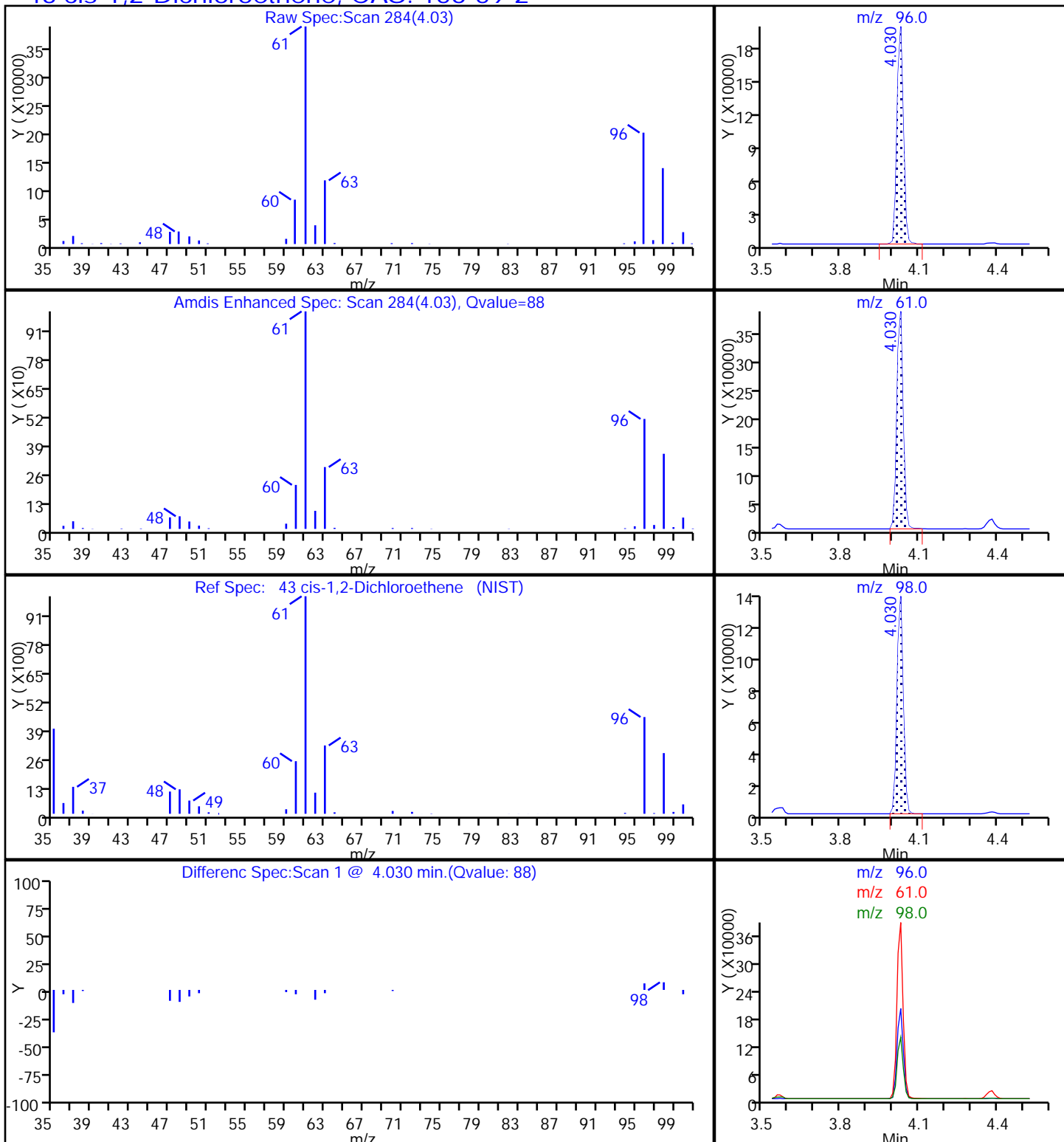
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

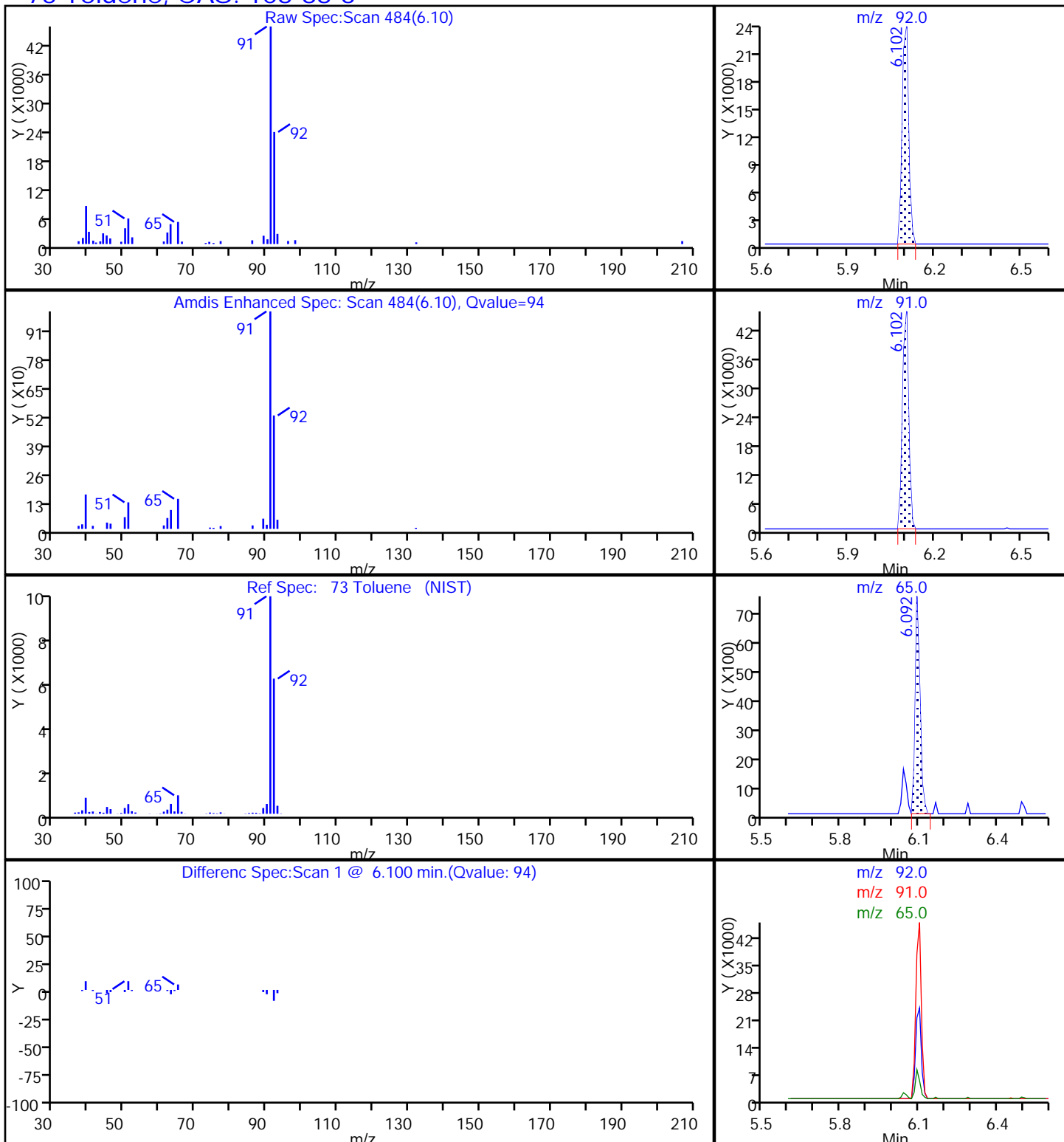
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

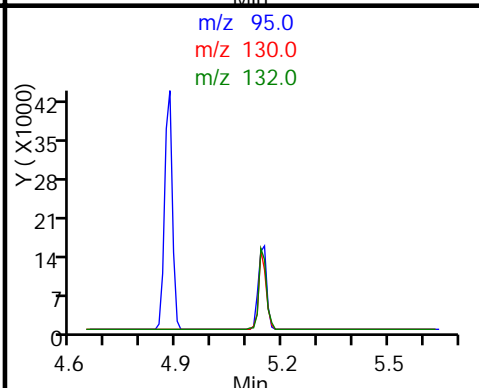
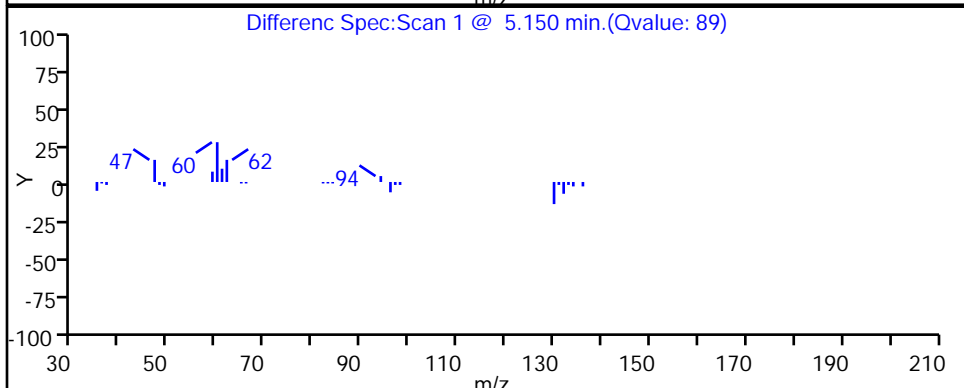
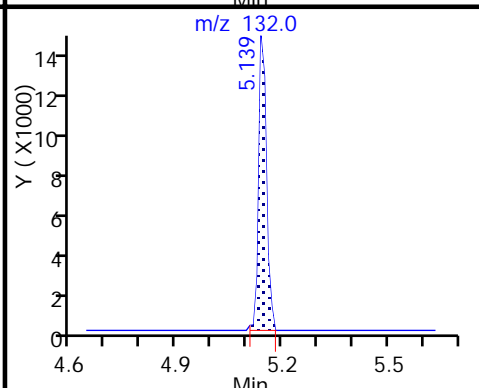
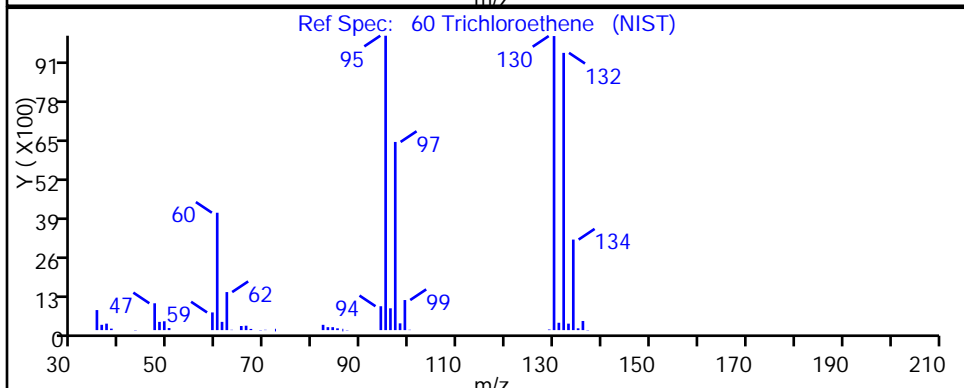
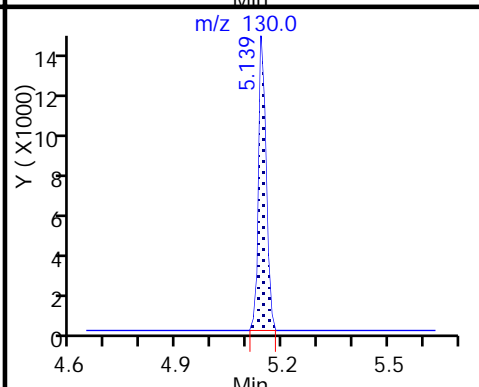
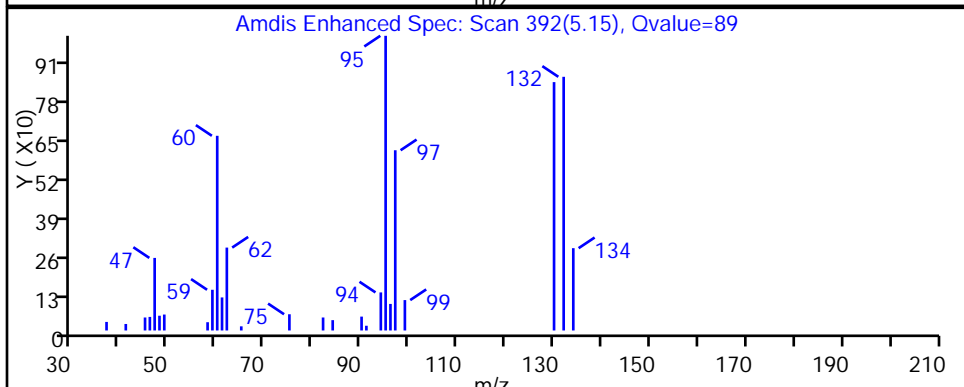
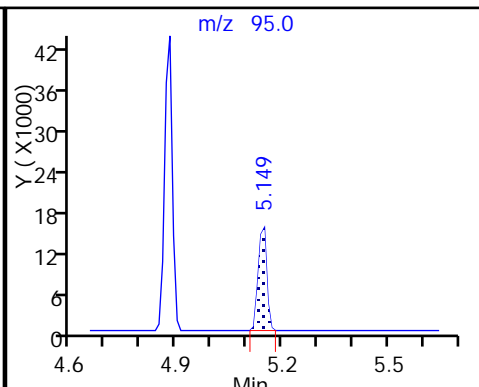
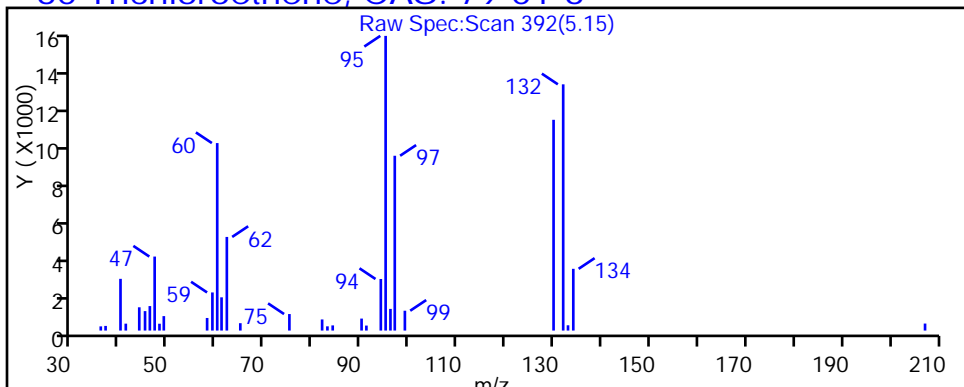
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D

Injection Date: 31-Oct-2017 17:31:30

Instrument ID: HP5975T

Lims ID: 480-126300-B-7

Lab Sample ID: 480-126300-7

Client ID: DUPLICATE

Operator ID: RR

ALS Bottle#: 24

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

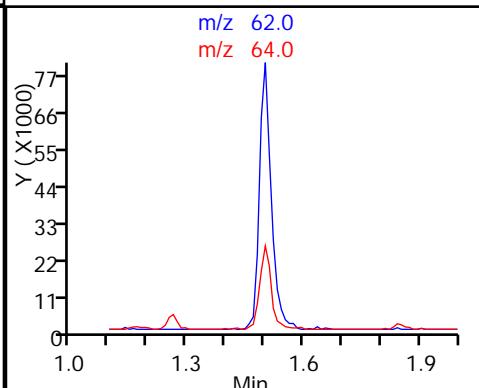
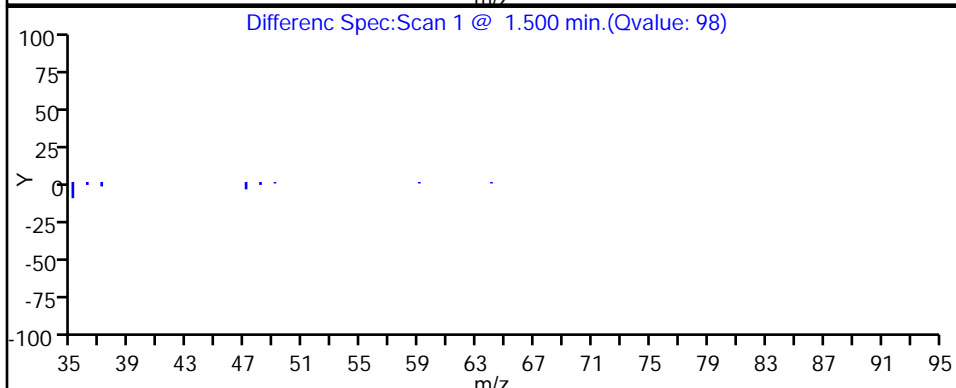
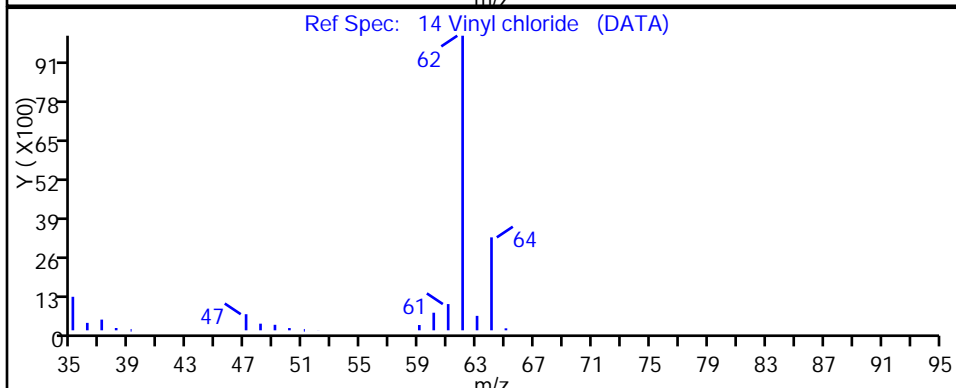
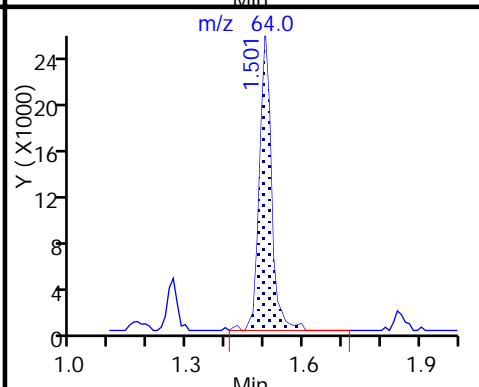
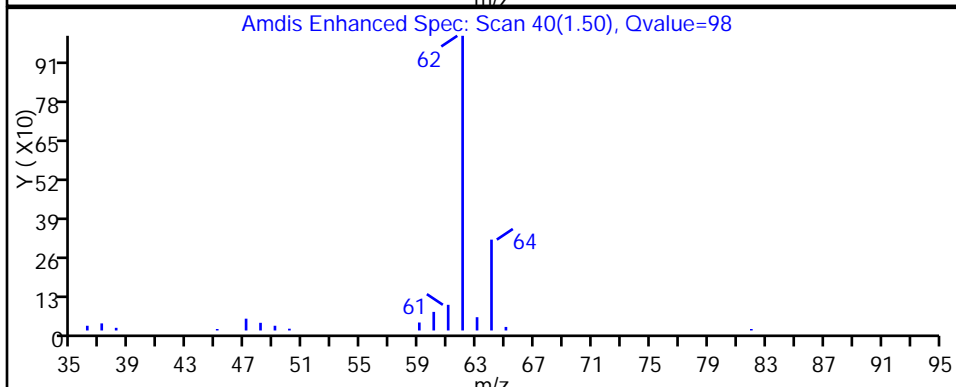
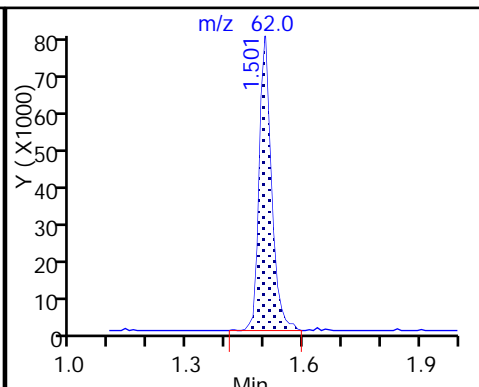
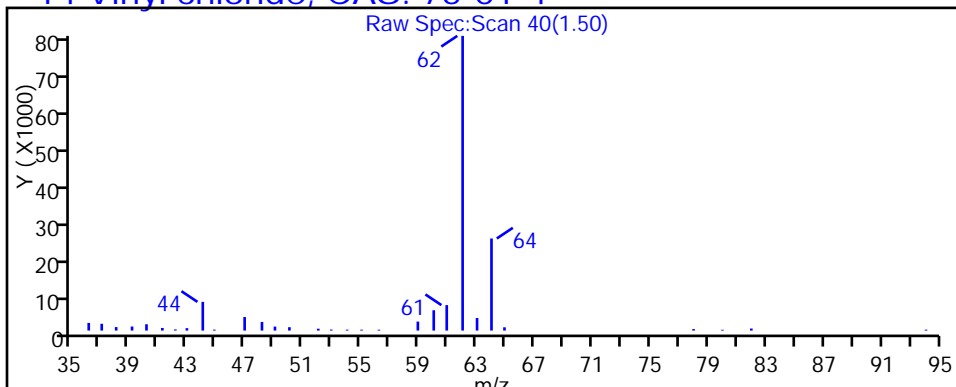
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

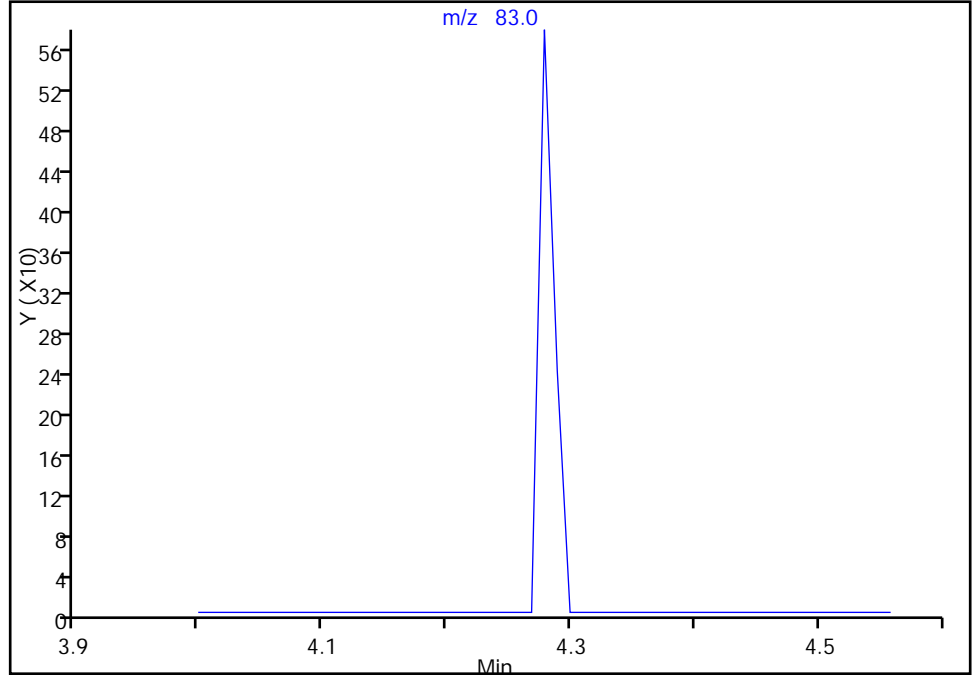
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D
Injection Date: 31-Oct-2017 17:31:30 Instrument ID: HP5975T
Lims ID: 480-126300-B-7 Lab Sample ID: 480-126300-7
Client ID: DUPLICATE
Operator ID: RR ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

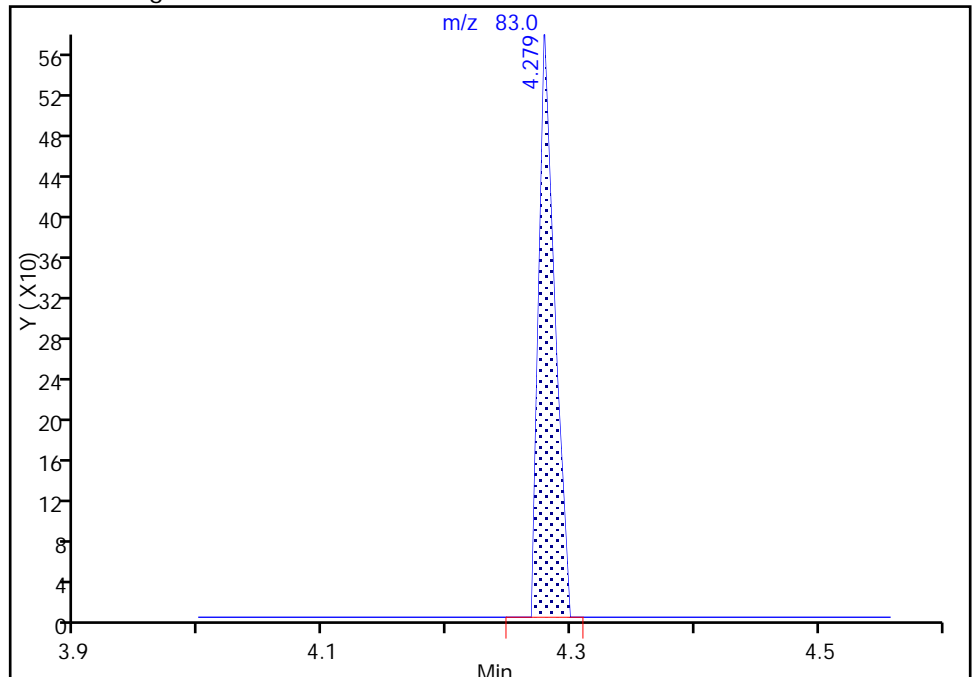
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 505
Amount: 0.031983
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 18:24:25
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

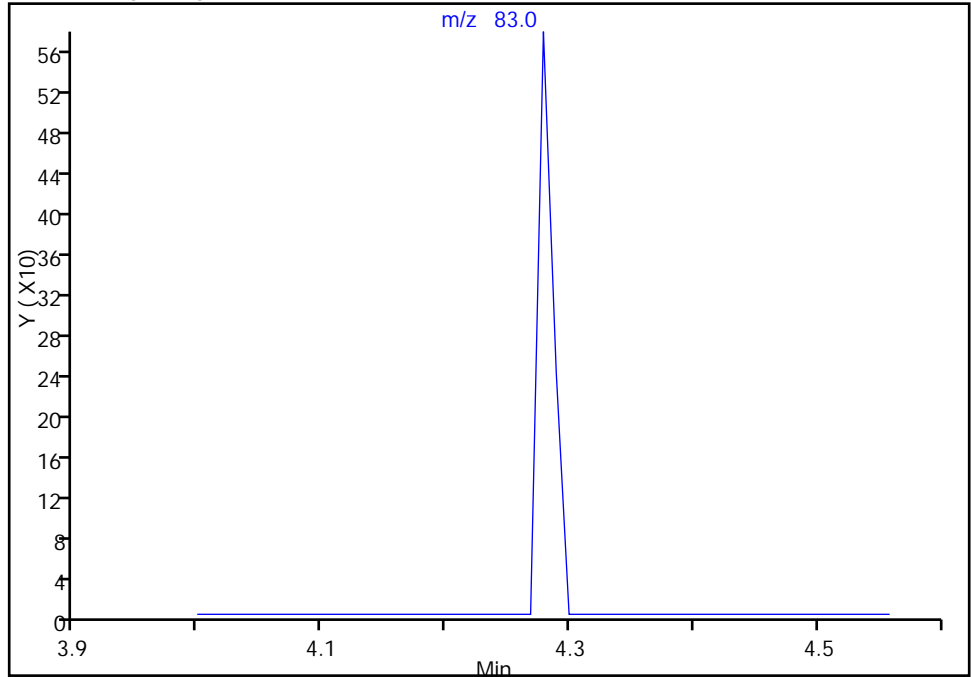
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D
Injection Date: 31-Oct-2017 17:31:30 Instrument ID: HP5975T
Lims ID: 480-126300-B-7 Lab Sample ID: 480-126300-7
Client ID: DUPLICATE
Operator ID: RR ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

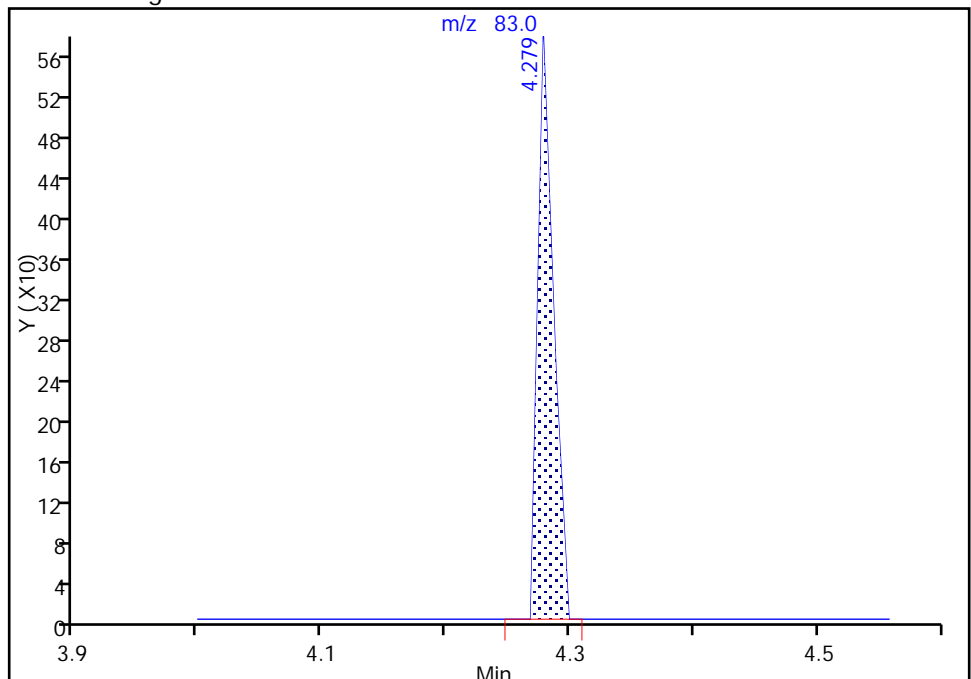
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 505
Amount: 0.031983
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 18:24:27

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

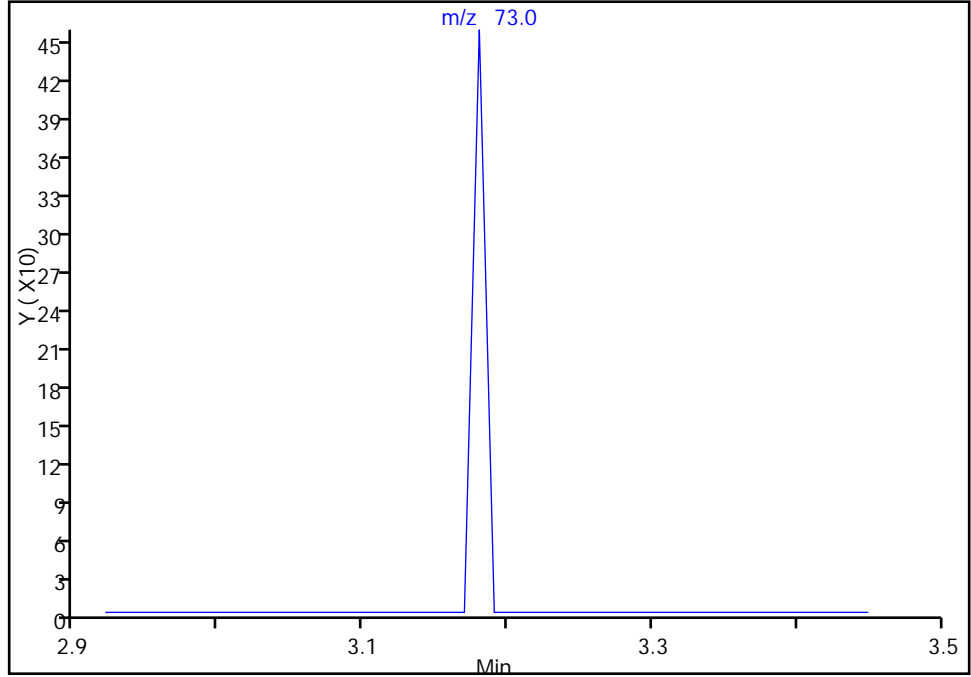
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D
Injection Date: 31-Oct-2017 17:31:30 Instrument ID: HP5975T
Lims ID: 480-126300-B-7 Lab Sample ID: 480-126300-7
Client ID: DUPLICATE
Operator ID: RR ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

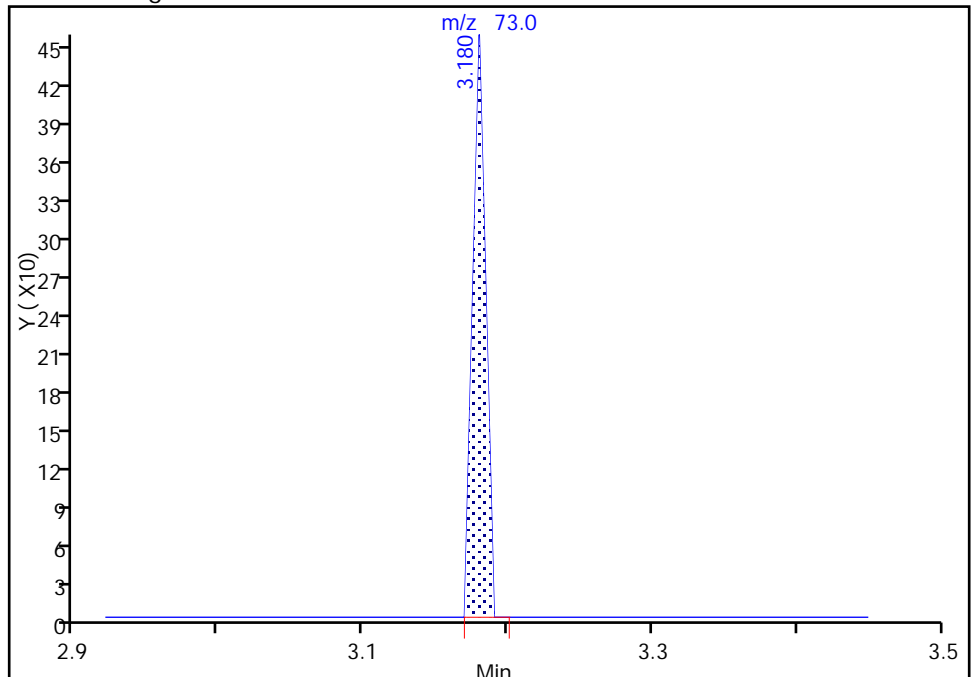
Not Detected
Expected RT: 3.18

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 283
Amount: 0.011443
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 18:24:10
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

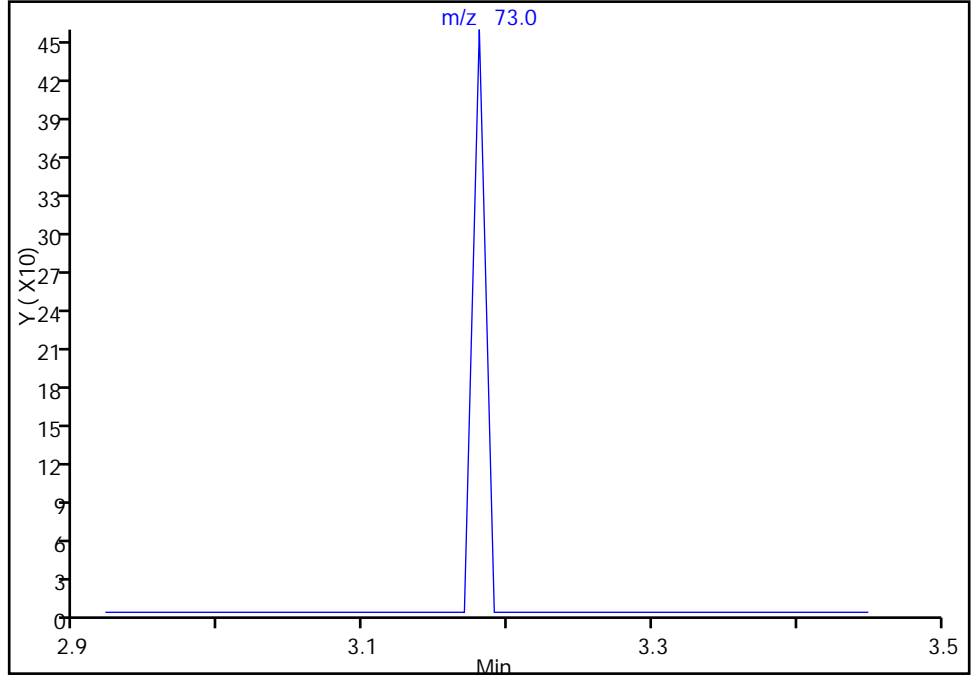
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1195.D
Injection Date: 31-Oct-2017 17:31:30 Instrument ID: HP5975T
Lims ID: 480-126300-B-7 Lab Sample ID: 480-126300-7
Client ID: DUPLICATE
Operator ID: RR ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

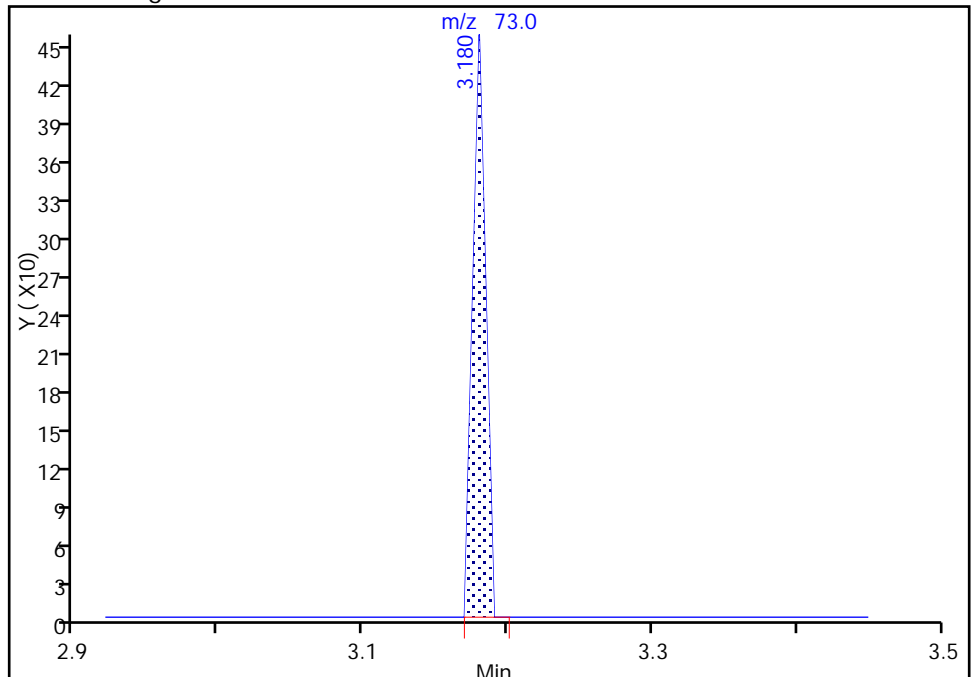
Not Detected
Expected RT: 3.18

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 283
Amount: 0.011443
Amount Units: ug/L



Reviewer: sonkera, 31-Oct-2017 18:24:15

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-126300-8
 Matrix: Water Lab File ID: T1244.D
 Analysis Method: 8260C Date Collected: 10/20/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-126300-8
 Matrix: Water Lab File ID: T1244.D
 Analysis Method: 8260C Date Collected: 10/20/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-126300-8
 Matrix: Water Lab File ID: T1244.D
 Analysis Method: 8260C Date Collected: 10/20/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 15:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1244.D
 Lims ID: 480-126300-A-8
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 01-Nov-2017 15:34:30 ALS Bottle#: 17 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-126300-a-8
 Misc. Info.: 480-0066898-028
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 17:52:10 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: nowakk

Date: 01-Nov-2017 16:18:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	97	163475	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	587725	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	271722	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.423	-0.001	91	208665	28.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	298081	26.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	718063	23.4	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	-0.001	80	172173	23.3	
11 Dichlorodifluoromethane	85		1.232				ND	
13 Chloromethane	50		1.408				ND	
14 Vinyl chloride	62		1.491				ND	
15 Bromomethane	94		1.781				ND	
16 Chloroethane	64		1.843				ND	
17 Trichlorofluoromethane	101		2.061				ND	
22 1,1-Dichloroethene	96		2.507				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.517				ND	
23 Acetone	43	2.641	2.631	0.010	88	8913	2.70	
25 Carbon disulfide	76		2.693				ND	
28 Methyl acetate	43		2.900				ND	
30 Methylene Chloride	84		2.994				ND	
33 Methyl tert-butyl ether	73		3.180				ND	
32 trans-1,2-Dichloroethene	96		3.191				ND	
36 1,1-Dichloroethane	63		3.553				ND	
43 cis-1,2-Dichloroethene	96		4.020				ND	
44 2-Butanone (MEK)	43		4.051				ND	
50 Chloroform	83		4.279				ND	
51 1,1,1-Trichloroethane	97		4.372				ND	
52 Cyclohexane	56		4.372				ND	
53 Carbon tetrachloride	117		4.486				ND	
55 Benzene	78		4.662				ND	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95		5.139				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.232				ND	
63 1,2-Dichloropropane	63		5.336				ND	
67 Dichlorobromomethane	83		5.564				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989				ND	
73 Toluene	92		6.103				ND	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166		6.507				ND	
81 2-Hexanone	43		6.621				ND	
82 Chlorodibromomethane	129		6.766				ND	
83 Ethylene Dibromide	107		6.849				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91		7.253				ND	
90 m-Xylene & p-Xylene	106		7.346				ND	
91 o-Xylene	106		7.667				ND	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105		7.947				ND	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.983				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146		9.367				ND	
117 1,2-Dibromo-3-Chloropropan	75		10.051				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

T_8260_IS_00176

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00160

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1244.D

Injection Date: 01-Nov-2017 15:34:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-A-8

Lab Sample ID: 480-126300-8

Worklist Smp#: 28

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

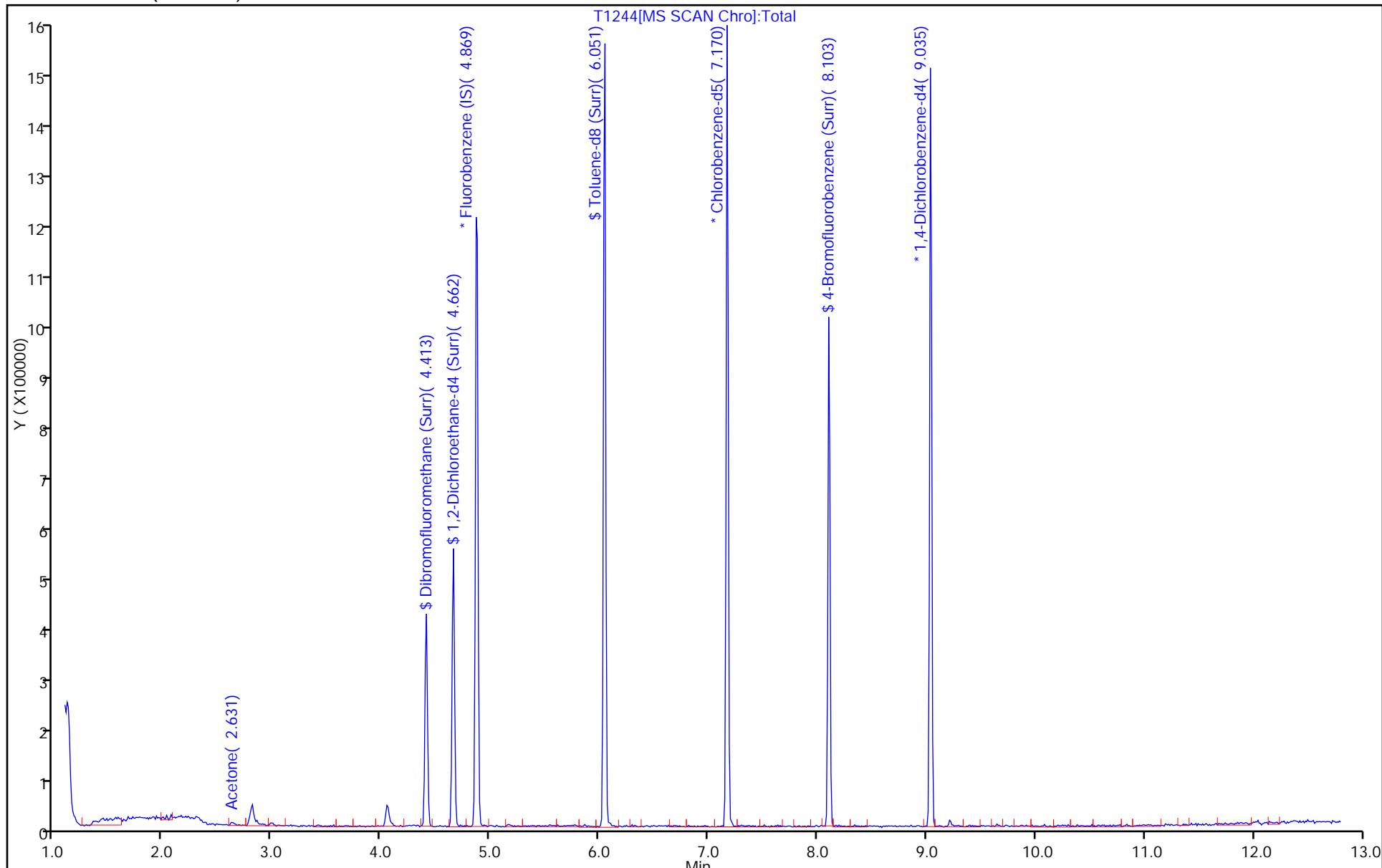
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57 Calibration End Date: 10/19/2017 19:42 Calibration ID: 31781

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-382770/6	T0527.D
Level 2	IC 480-382770/7	T0528.D
Level 3	IC 480-382770/8	T0529.D
Level 4	IC 480-382770/9	T0530.D
Level 5	IC 480-382770/10	T0531.D
Level 6	ICIS 480-382770/11	T0532.D
Level 7	IC 480-382770/12	T0533.D
Level 8	IC 480-382770/13	T0534.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	1.3963 1.6560	1.3137 1.7004	1.5100 1.6683	1.8199	1.6628	Ave		1.5909			0.1000	10.7	20.0				
Chloromethane	4.1334 3.7916	3.5066 3.8050	3.1015 3.7289	3.7575	3.8433	Ave		3.7085			0.1000	8.1	20.0				
Butadiene	3.2120 2.8869	3.0158 2.8305	2.7437 2.8690	3.2334	2.9220	Ave		2.9642				6.0	20.0				
Vinyl chloride	2.7716 2.3925	2.2573 2.3397	1.8728 2.3272	2.3493	2.3831	Ave		2.3367			0.1000	10.4	20.0				
Bromomethane	++++ 1.0048	1.0767 1.0013	0.9405 0.9650	0.9521	0.9993	Ave		0.9914			0.1000	4.6	20.0				
Chloroethane	1.1098 1.1119	0.8840 1.1421	0.8345 1.0908	1.0250	1.0578	Ave		1.0320			0.1000	11.0	20.0				
Dichlorofluoromethane	++++ 2.5295	2.4125 2.4671	2.1327 2.4346	2.4986	2.4790	Ave		2.4220				5.5	20.0				
Trichlorofluoromethane	1.8727 2.0619	1.8159 1.9964	1.6718 1.9643	2.0640	1.9581	Ave		1.9256			0.1000	6.9	20.0				
Ethyl ether	1.5932 1.4974	1.4616 1.4186	1.5183 1.4059	1.5687	1.2089	Ave		1.4591				8.3	20.0				
Acrolein	++++ 0.3723	0.3445 0.3355	0.3584 0.3663	0.3854	0.3044	Ave		0.3524				7.7	20.0				
1,1-Dichloroethene	++++ 1.1402	0.8625 1.0909	0.9096 1.2096	1.1779	0.8880	Ave		1.0398			0.1000	14.3	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.1496	0.9752 1.1423	0.9284 1.2684	1.2148	0.9260	Ave		1.0864			0.1000	13.0	20.0				
Acetone	0.5644 0.5249	0.4694 0.4599	0.5592 0.5207	0.5177	0.4175	Ave		0.5042			0.1000	10.1	20.0				
Iodomethane	1.6499 1.7877	1.4540 1.6620	1.7497 1.8273	1.8192	1.4513	Ave		1.6751				9.1	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57

Calibration End Date: 10/19/2017 19:42

Calibration ID: 31781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	3.8857 4.3345	3.5857 4.1096	3.9070 4.5636	4.4002	3.4285	Ave		4.0268		0.1000	9.9		20.0				
Allyl chloride	3.8528 4.0926	3.2423 3.8554	3.7434 4.3064	4.0549	3.3425	Ave		3.8113			9.6		20.0				
Methyl acetate	2.0090 1.5689	1.6260 1.4416	1.6497 1.5611	1.6621	1.3883	Ave		1.6133		0.1000	11.6		20.0				
Methylene Chloride	5.8505 1.4714	3.0183 1.3168	2.2692 1.4006	1.6457	1.3829	Lin1	1.7318	1.3484		0.1000				0.9980		0.9900	
2-Methyl-2-propanol	0.1013 0.1186	0.0998 0.1067	0.0998 0.1276	0.1146	0.0988	Ave		0.1084			9.9		20.0				
Methyl tert-butyl ether	3.7251 3.7685	3.1159 3.3805	3.7485 3.7039	3.6447	3.0503	Ave		3.5122		0.1000	8.3		20.0				
trans-1,2-Dichloroethene	++++ 1.3485	1.0773 1.2341	1.2089 1.3438	1.2747	1.1091	Ave		1.2281		0.1000	8.6		20.0				
Acrylonitrile	0.7600 0.7885	0.5963 0.6953	0.7276 0.7565	0.7629	0.6520	Ave		0.7174			9.1		20.0				
Hexane	++++ 3.1822	3.0817 3.0287	3.0045 3.4098	3.3646	2.5897	Ave		3.0944			8.8		20.0				
1,1-Dichloroethane	2.7908 3.2006	2.7418 2.8572	2.7962 3.1790	3.1742	2.5857	Ave		2.9157		0.2000	8.1		20.0				
Vinyl acetate	4.9877 5.0096	4.2087 4.5791	4.2236 5.2052	4.6408	3.9710	Ave		4.6032			9.6		20.0				
2,2-Dichloropropane	++++ 2.0009	1.6544 1.9221	1.7400 2.1342	2.0006	1.6480	Ave		1.8715			10.2		20.0				
cis-1,2-Dichloroethene	1.6758 1.5809	1.2005 1.3945	1.4679 1.5358	1.6198	1.2779	Ave		1.4691		0.1000	11.4		20.0				
2-Butanone (MEK)	++++ 0.9310	0.8280 0.8170	0.8804 0.9277	0.8680	0.7454	Ave		0.8568		0.1000	7.7		20.0				
Chlorobromomethane	0.6702 0.6318	0.4858 0.5900	0.6324 0.6357	0.6425	0.5096	Ave		0.5997			11.2		20.0				
Tetrahydrofuran	++++ 0.6092	0.6223 0.5570	0.6196 0.6180	0.6252	0.5243	Ave		0.5965			6.6		20.0				
Chloroform	++++ 2.4719	1.9943 2.2282	2.1966 2.4320	2.3953	1.9785	Ave		2.2424		0.2000	9.0		20.0				
1,1,1-Trichloroethane	2.0863 1.9909	1.4672 1.8902	1.4708 2.1247	1.9255	1.5511	Ave		1.8133		0.1000	15.1		20.0				
Cyclohexane	3.9983 3.8627	3.0216 3.7249	3.4468 4.2643	4.0315	3.1048	Ave		3.6819		0.1000	12.2		20.0				
Carbon tetrachloride	1.3083 1.4896	1.1858 1.4345	1.0706 1.6997	1.3499	1.1324	Ave		1.3339		0.1000	15.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57

Calibration End Date: 10/19/2017 19:42

Calibration ID: 31781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.9634 1.9201	1.2189 1.7624	1.5555 1.9760	1.8473	1.4977	Ave		1.7177			15.7		20.0				
Benzene	5.3312 5.3956	4.5541 4.9478	4.9042 5.4321	5.1248	4.4144	Ave		5.0130		0.5000	7.6		20.0				
Isobutyl alcohol	++++ 0.0597	0.0508 0.0581	0.0498 0.0716	0.0598	0.0490	Ave		0.0570			14.1		20.0				
1,2-Dichloroethane	++++ 2.5091	2.6316 2.2722	2.5005 2.4919	2.5906	2.0974	Ave		2.4419		0.1000	7.8		20.0				
n-Heptane	++++ 3.9928	3.5840 3.9027	3.9180 4.3882	4.2676	3.1142	Ave		3.8811			11.0		20.0				
Trichloroethene	1.1306 1.3689	1.3156 1.2640	1.2383 1.4198	1.3097	1.0916	Ave		1.2673		0.2000	8.9		20.0				
Methylcyclohexane	++++ 2.2879	1.8759 2.2312	1.9270 2.5027	2.3826	1.7412	Ave		2.1355		0.1000	13.4		20.0				
1,2-Dichloropropane	++++ 1.7933	1.6260 1.6620	1.7641 1.8798	1.8425	1.4707	Ave		1.7198		0.1000	8.3		20.0				
1,4-Dioxane	++++ 0.0020	0.0017 0.0021	0.0017 0.0024	0.0021	0.0020	Ave		0.0020			11.5		20.0				
Dibromomethane	++++ 0.8402	0.7985 0.7670	0.8027 0.8640	0.9251	0.7065	Ave		0.8149		0.1000	8.6		20.0				
Bromodichloromethane	1.5187 1.6560	1.3684 1.5773	1.5452 1.8170	1.4744	1.2932	Ave		1.5313		0.2000	10.6		20.0				
2-Chloroethyl vinyl ether	0.9448 1.0757	0.8754 0.9827	0.9985 1.1105	1.0439	0.8638	Ave		0.9869			9.1		20.0				
cis-1,3-Dichloropropene	++++ 2.1421	1.6706 1.9631	1.7103 2.2484	1.9779	1.6811	Ave		1.9134		0.2000	12.2		20.0				
4-Methyl-2-pentanone (MIBK)	0.5887 0.6328	0.5041 0.5905	0.5767 0.6302	0.5888	0.5173	Ave		0.5786		0.1000	8.1		20.0				
Toluene	++++ 1.0181	0.9177 0.9507	0.8865 1.0255	0.9604	0.8248	Ave		0.9405		0.4000	7.6		20.0				
trans-1,3-Dichloropropene	0.5636 0.5858	0.3993 0.5603	0.4917 0.6199	0.5302	0.4468	Ave		0.5247		0.1000	14.1		20.0				
Ethyl methacrylate	0.3852 0.4733	0.3135 0.4498	0.4406 0.4952	0.4253	0.3977	Ave		0.4226			13.5		20.0				
1,1,2-Trichloroethane	++++ 0.3016	0.2591 0.2727	0.2984 0.2962	0.2632	0.2529	Ave		0.2777		0.1000	7.4		20.0				
Tetrachloroethene	++++ 0.3496	0.3185 0.3340	0.2784 0.3678	0.3689	0.2784	Ave		0.3280		0.2000	11.6		20.0				
1,3-Dichloropropane	0.5418 0.6274	0.5361 0.5856	0.5963 0.6256	0.6281	0.5509	Ave		0.5865			6.7		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57

Calibration End Date: 10/19/2017 19:42

Calibration ID: 31781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.3950 0.4227	0.3336 0.4018	0.3524 0.4234	0.3854	0.3389	Ave		0.3817			0.1000	9.4	20.0				
Dibromochloromethane	0.2074 0.2879	0.2068 0.2977	0.2263 0.3387	0.2655	0.2254	Ave		0.2570			0.1000	18.8	20.0				
1,2-Dibromoethane	0.3215 0.3233	0.2657 0.3150	0.2811 0.3385	0.3081	0.2862	Ave		0.3049				8.1	20.0				
Chlorobenzene	1.1968 1.1058	0.8343 1.0363	1.0647 1.0928	1.0836	0.9116	Ave		1.0407			0.5000	11.1	20.0				
Ethylbenzene	++++ 1.9495	1.6817 1.8798	1.7174 2.0000	1.9591	1.5905	Ave		1.8254			0.1000	8.8	20.0				
1,1,1,2-Tetrachloroethane	0.2646 0.3300	0.1787 0.3231	0.2263 0.3586	0.2868	0.2655	Ave		0.2844				19.4	20.0				
m,p-Xylene	0.6614 0.6982	0.5084 0.6791	0.5867 0.7102	0.6658	0.5626	Ave		0.6340			0.1000	11.4	20.0				
o-Xylene	0.6749 0.6663	0.5541 0.6521	0.5988 0.7026	0.6326	0.5823	Ave		0.6330			0.3000	8.0	20.0				
Styrene	0.9008 1.1546	0.9487 1.1379	1.0510 1.2162	1.0699	0.9376	Ave		1.0521			0.3000	10.9	20.0				
Bromoform	0.0977 0.1302	0.0775 0.1446	0.1115 ++++	0.1134	0.1064	Ave		0.1116			0.1000	19.4	20.0				
Isopropylbenzene	3.1485 3.7351	3.0560 3.6687	2.9946 3.7966	3.6147	2.9504	Ave		3.3706			0.1000	10.8	20.0				
Bromobenzene	0.7213 0.7759	0.7492 0.7814	0.7833 0.8137	0.8391	0.6779	Ave		0.7677				6.7	20.0				
1,1,2,2-Tetrachloroethane	0.7631 0.8778	0.7221 0.8551	0.7191 0.8935	0.8462	0.7530	Ave		0.8037			0.3000	8.9	20.0				
N-Propylbenzene	4.3711 4.8631	4.1105 4.9688	4.2290 5.0489	5.0313	3.9783	Ave		4.5751				9.8	20.0				
1,2,3-Trichloropropane	0.2449 0.2555	0.2186 0.2461	0.2134 0.2457	0.2537	0.2028	Ave		0.2351				8.6	20.0				
trans-1,4-Dichloro-2-butene	0.3548 0.4050	0.2760 0.4227	0.2801 0.4420	0.3190	0.3172	Ave		0.3521				18.3	20.0				
2-Chlorotoluene	0.9719 0.8882	0.6186 0.8298	0.6828 0.8644	0.8463	0.6954	Ave		0.7997				15.1	20.0				
1,3,5-Trimethylbenzene	3.1544 3.1665	2.5877 3.1898	2.8102 3.2599	3.0296	2.5937	Ave		2.9740				9.2	20.0				
4-Chlorotoluene	2.9663 3.0357	2.8049 3.0309	2.6406 3.0654	3.0621	2.5250	Ave		2.8914				7.3	20.0				
tert-Butylbenzene	0.5683 0.6507	0.6275 0.6635	0.4813 0.6991	0.6364	0.4870	Ave		0.6017				13.5	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 382770
 SDG No.: _____
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 10/19/2017 16:57 Calibration End Date: 10/19/2017 19:42 Calibration ID: 31781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	3.2586 3.2807	2.8841 3.2955	2.7209 3.4341	3.3511	2.7075	Ave		3.1165			9.5		20.0				
sec-Butylbenzene	3.4688 3.9435	3.1994 4.1731	3.3631 4.2611	4.0954	3.1954	Ave		3.7125			12.2		20.0				
4-Isopropyltoluene	2.5520 3.3798	2.3944 3.4265	2.8705 3.5328	3.3737	2.6574	Ave		3.0234			15.0		20.0				
1,3-Dichlorobenzene	1.7029 1.6978	1.5430 1.6557	1.5200 1.6617	1.7974	1.4603	Ave		1.6298		0.6000	6.9		20.0				
1,4-Dichlorobenzene	1.4862 1.7252	1.6629 1.6847	1.7225 1.7317	1.8010	1.4408	Ave		1.6569		0.5000	7.6		20.0				
n-Butylbenzene	3.4672 3.5290	2.8210 3.6119	2.9333 3.7604	3.4843	2.7899	Ave		3.2996			11.7		20.0				
1,2-Dichlorobenzene	1.9061 1.6074	1.4343 1.6009	1.4994 1.6125	1.8001	1.3793	Ave		1.6050		0.4000	11.0		20.0				
1,2-Dibromo-3-Chloropropane	++++ 0.1356	0.0726 0.1446	0.1027 0.1597	0.1127	0.1012	Lin1	-0.125	0.1519		0.0500				0.9920		0.9900	
1,2,4-Trichlorobenzene	0.9652 1.0397	1.0764 1.0510	0.8803 1.0740	1.0026	0.8801	Ave		0.9962		0.2000	8.1		20.0				
Hexachlorobutadiene	0.3575 0.4481	0.3014 0.4723	0.4381 0.5043	0.4166	0.3568	Ave		0.4119			16.5		20.0				
Naphthalene	2.1056 2.6604	2.1478 2.7567	2.2596 2.7748	2.5017	2.1914	Ave		2.4248			11.6		20.0				
1,2,3-Trichlorobenzene	1.0600 0.9943	0.8240 0.9675	0.9872 0.9958	0.9893	0.8022	Ave		0.9525			9.5		20.0				
Dibromofluoromethane (Surr)	1.1083 1.1757	1.1205 1.0724	1.0677 1.1375	1.1396	1.0967	Ave		1.1148			3.3		20.0				
1,2-Dichloroethane-d4 (Surr)	1.7346 1.8264	1.6845 1.6488	1.6814 1.6874	1.7756	1.6876	Ave		1.7158			3.4		20.0				
Toluene-d8 (Surr)	1.2751 1.3240	1.3385 1.3110	1.3051 1.2927	1.2897	1.2891	Ave		1.3031			1.6		20.0				
4-Bromofluorobenzene (Surr)	0.3147 0.3191	0.3117 0.3138	0.2987 0.3350	0.3076	0.3095	Ave		0.3138			3.3		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57 Calibration End Date: 10/19/2017 19:42 Calibration ID: 31781

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-382770/6	T0527.D
Level 2	IC 480-382770/7	T0528.D
Level 3	IC 480-382770/8	T0529.D
Level 4	IC 480-382770/9	T0530.D
Level 5	IC 480-382770/10	T0531.D
Level 6	ICIS 480-382770/11	T0532.D
Level 7	IC 480-382770/12	T0533.D
Level 8	IC 480-382770/13	T0534.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	5171 368608	12276 823383	28036 1593345	82823	154556	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	15307 843997	32768 1842538	57585 3561417	171001	357244	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	11895 642603	28181 1370657	50942 2740129	147151	271603	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	10264 532566	21094 1133000	34772 2222717	106914	221516	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 223656	10061 484873	17463 921650	43330	92885	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	4110 247503	8261 553065	15495 1041794	46647	98321	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	++++ 563044	22544 1194658	39598 2325279	113709	230428	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	6935 458965	16969 966746	31041 1876029	93932	182010	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5900 333320	13658 686924	28190 1342741	71389	112368	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 414356	16096 812339	33275 1749243	87695	141453	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	++++ 253793	8060 528277	16888 1155317	53605	82544	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 255887	9113 553169	17238 1211444	55284	86074	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	10450 584198	21933 1113557	51916 2486459	117807	194059	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	6110 397933	13587 804799	32487 1745183	82790	134900	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	14390 964831	33507 1990022	72542 4358592	200249	318680	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57

Calibration End Date: 10/19/2017 19:42

Calibration ID: 31781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	14268 910992	30298 1866938	69504 4112932	184536	310690	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	14880 698454	30388 1396125	61260 2981993	151280	258087	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	21666 327526	28205 637641	42132 1337655	74896	128541	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3751 263908	9325 516718	18537 1218467	52142	91837	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	13795 838839	29117 1636980	68856 3537559	165867	283529	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 300164	10067 597619	22445 1283477	58012	103092	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	28145 1755215	55719 3366858	135099 7225202	347178	606032	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	++++ 708333	28797 1466613	55784 3256677	153122	240717	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	10335 712441	25621 1383592	51918 3036233	144458	240346	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	36942 2230245	78658 4434809	156839 9942726	422398	738219	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	++++ 445399	15460 930782	32307 2038379	91046	153183	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	6206 351892	11218 675263	27255 1466809	73714	118787	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	++++ 1036218	38686 1978203	81735 4430047	197515	346425	++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2482 140627	4540 285689	11742 607132	29242	47364	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	++++ 271229	11630 539466	23007 1180569	56905	97468	++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	++++ 550241	18636 1079006	40784 2322732	109010	183905	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	7726 443157	13710 915335	27309 2029306	87628	144173	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	14807 859809	28236 1803731	63996 4072721	183471	288596	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4845 331579	11081 694667	19877 1623403	61433	105263	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	7271 427402	11390 853439	28881 1887282	84069	139218	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	19743 1201037	42556 2395924	91056 5188136	233225	410323	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57

Calibration End Date: 10/19/2017 19:42

Calibration ID: 31781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	++++ 332128	11859 703373	23096 1709998	68057	113928	++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	++++ 558522	24591 1100318	46426 2379975	117895	194955	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	++++ 888787	33491 1889875	72745 4191070	194217	289466	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4187 304721	12294 612064	22992 1356047	59603	101464	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	++++ 509280	17530 1080464	35779 2390310	108430	161849	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	++++ 399190	15194 804789	32754 1795347	83853	136707	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 29304	1011 64695	2019 147146	6293	11920	++++ 500	20.0 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	++++ 187029	7462 371402	14904 825210	42102	65669	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	5624 368619	12787 763774	28690 1735370	67097	120209	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3499 239437	8180 475863	18540 1060613	47509	80289	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	++++ 476822	15611 950603	31756 2147449	90011	156263	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	35771 2313947	74503 4516147	170868 9861601	443606	769399	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	++++ 744513	27126 1454180	52534 3209462	144717	245379	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6849 428420	11802 856948	29136 1940066	79895	132909	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	4681 346098	9267 687992	26111 1549731	64084	118316	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 220571	7659 417176	17686 927080	39661	75229	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 255646	9416 510924	16501 1151049	55583	82825	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6584 458800	15846 895646	35338 1957906	94650	163897	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	24002 1545575	49311 3073073	104424 6624708	290396	504061	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2520 210517	6114 455339	13411 1060129	40005	67050	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3907 236459	7853 481781	16661 1059419	46427	85149	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57

Calibration End Date: 10/19/2017 19:42

Calibration ID: 31781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14544 808628	24662 1585013	63097 3420127	163283	271195	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 1425649	49712 2875266	101775 6259102	295216	473156	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3216 241358	5282 494150	15895 1122203	43212	78967	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	8037 510589	15028 1038662	34766 2222558	100330	167366	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	8202 487256	16378 997446	35484 2198924	95321	173218	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	10947 844304	28043 1740545	62283 3806101	161227	278923	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	1187 95195	2291 221157	6607 ++++	17085	31642	0.400 25.0	1.00 50.0	2.00 ++++	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	17507 1306010	41233 2607593	83635 5742029	247692	423544	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	4011 271314	10108 555397	21875 1230650	57502	97318	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4243 306929	9743 607772	20083 1351372	57988	108098	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	24305 1700422	55461 3531602	118108 7635924	344765	571096	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1362 89325	2950 174892	5961 371671	17384	29106	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1973 141598	3724 300411	7822 668445	21861	45537	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5404 310565	8347 589798	19069 1307397	57989	99829	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	17540 1107178	34915 2267217	78483 4930278	207600	372327	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	16494 1061458	37846 2154211	73747 4636158	209829	362474	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3160 227518	8466 471618	13442 1057341	43610	69915	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	18119 1147115	38914 2342329	75989 5193758	229633	388664	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	19288 1378885	43168 2966080	93924 6444475	280637	458709	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	14190 1181781	32307 2435392	80169 5343042	231182	381478	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	9469 593641	20819 1176776	42451 2513130	123166	209627	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 382770

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/19/2017 16:57 Calibration End Date: 10/19/2017 19:42 Calibration ID: 31781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	8264 603230	22437 1197430	48107 2618995	123411	206830	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	19279 1233951	38062 2567226	81922 5687226	238757	400498	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10599 562035	19353 1137883	41875 2438718	123354	198004	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	++++ 47427	979 102809	2868 241528	7721	14533	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5367 363528	14524 747026	24585 1624368	68701	126339	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	1988 156694	4067 335674	12236 762640	28548	51222	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	11708 930232	28980 1959366	63106 4196576	171430	314586	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5894 347650	11118 687659	27571 1506063	67794	115158	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	256514 261712	261771 259660	247794 271599	259310	254858	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	401488 406540	393524 399204	390234 402902	404041	392164	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	968442 968209	989144 1002625	966720 1011393	971702	958699	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	239033 233333	230319 239964	221240 262138	231765	230149	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Oct-2017 16:57:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.4
 Misc. Info.: 480-0066541-006
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:25:47 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler

Date: 20-Oct-2017 10:15:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.880	0.000	97	231455	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	759514	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	347528	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	256514	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	401488	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	97	968442	25.0	24.5	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	81	239033	25.0	25.1	
11 Dichlorodifluoromethane	85	1.273	1.242	0.031	22	5171	0.4000	0.3511	M
13 Chloromethane	50	1.408	1.408	0.000	96	15307	0.4000	0.4458	M
151 Butadiene	54	1.491	1.491	0.000	89	11895	0.4000	0.4334	
14 Vinyl chloride	62	1.491	1.491	0.000	1	10264	0.4000	0.4744	M
15 Bromomethane	94	1.791	1.781	0.010	71	4401	0.4000	0.4795	
16 Chloroethane	64	1.843	1.833	0.010	37	4110	0.4000	0.4302	M
18 Dichlorofluoromethane	67	2.061	2.061	0.000	38	10676	0.4000	0.4761	
17 Trichlorofluoromethane	101	2.071	2.071	0.000	51	6935	0.4000	0.3890	
19 Ethyl ether	59	2.310	2.299	0.011	86	5900	0.4000	0.4368	
21 Acrolein	56	2.486	2.486	0.000	57	7922	2.00	2.43	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	94	4940	0.4000	0.5131	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.010	1	3251	0.4000	0.3232	M
23 Acetone	43	2.641	2.631	0.010	79	10450	2.00	2.24	M
24 Iodomethane	142	2.662	2.662	0.000	41	6110	0.4000	0.3940	
25 Carbon disulfide	76	2.693	2.693	0.000	73	14390	0.4000	0.3860	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	87	14268	0.4000	0.4044	
28 Methyl acetate	43	2.900	2.890	0.010	97	14880	0.8000	1.00	M
30 Methylene Chloride	84	2.994	2.994	0.000	90	21666	0.4000	0.4512	
31 2-Methyl-2-propanol	59	3.159	3.149	0.010	34	3751	4.00	3.74	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	70	13795	0.4000	0.4242	
32 trans-1,2-Dichloroethene	96	3.191	3.191	-0.001	92	5347	0.4000	0.4703	
34 Acrylonitrile	53	3.253	3.242	0.011	97	28145	4.00	4.24	
35 Hexane	57	3.346	3.346	0.000	92	17417	0.4000	0.6079	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	42	10335	0.4000	0.3829	
39 Vinyl acetate	43	3.595	3.595	0.000	94	36942	0.8000	0.8668	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	63	8558	0.4000	0.4939	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	53	6206	0.4000	0.4563	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	80	22945	2.00	2.89	
47 Chlorobromomethane	128	4.227	4.217	0.010	81	2482	0.4000	0.4470	
48 Tetrahydrofuran	42	4.237	4.227	0.010	78	8743	0.8000	1.58	
50 Chloroform	83	4.289	4.279	0.010	52	11174	0.4000	0.5382	
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	66	7726	0.4000	0.4602	
52 Cyclohexane	56	4.382	4.372	0.010	88	14807	0.4000	0.4344	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	81	7271	0.4000	0.4572	M
53 Carbon tetrachloride	117	4.486	4.486	0.000	61	4845	0.4000	0.3923	
56 Isobutyl alcohol	43		4.652				ND	ND	
55 Benzene	78	4.662	4.662	0.000	40	19743	0.4000	0.4254	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	4	11229	0.4000	0.4967	
59 n-Heptane	43	4.786	4.787	-0.001	89	19756	0.4000	0.5498	
60 Trichloroethene	95	5.139	5.139	0.000	88	4187	0.4000	0.3569	
62 Methylcyclohexane	83	5.242	5.232	0.010	83	5289	0.4000	0.2675	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	89	9026	0.4000	0.5669	
66 1,4-Dioxane	88	5.439	5.439	0.000	1	147	8.00	2.42	M
65 Dibromomethane	93	5.439	5.450	-0.011	45	4544	0.4000	0.6023	
67 Dichlorobromomethane	83	5.553	5.564	-0.011	83	5624	0.4000	0.3967	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	80	3499	0.4000	0.3829	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	86	8759	0.4000	0.4945	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	35771	2.00	2.03	
73 Toluene	92	6.092	6.092	0.000	91	15424	0.4000	0.5398	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	67	6849	0.4000	0.4297	
77 Ethyl methacrylate	69	6.331	6.331	-0.001	46	4681	0.4000	0.3646	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	85	4183	0.4000	0.4957	
79 Tetrachloroethene	166	6.507	6.496	0.011	76	5716	0.4000	0.5737	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	81	6584	0.4000	0.3695	
81 2-Hexanone	43	6.621	6.621	0.000	91	24002	2.00	2.07	
82 Chlorodibromomethane	129	6.766	6.766	0.000	28	2520	0.4000	0.3228	
83 Ethylene Dibromide	107	6.849	6.849	0.000	94	3907	0.4000	0.4217	
86 Chlorobenzene	112	7.191	7.191	0.000	91	14544	0.4000	0.4600	
88 Ethylbenzene	91	7.253	7.253	0.000	94	18554	0.4000	0.3346	
89 1,1,1,2-Tetrachloroethane	131	7.274	7.263	0.011	1	3216	0.4000	0.3722	M
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	8037	0.4000	0.4172	
91 o-Xylene	106	7.667	7.667	0.000	92	8202	0.4000	0.4265	
92 Styrene	104	7.688	7.688	0.000	62	10947	0.4000	0.3425	
93 Bromoform	173	7.895	7.885	0.010	1	1187	0.4000	0.3501	
95 Isopropylbenzene	105	7.947	7.947	0.000	95	17507	0.4000	0.3736	
97 Bromobenzene	156	8.227	8.227	0.000	88	4011	0.4000	0.3758	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	47	4243	0.4000	0.3798	
99 N-Propylbenzene	91	8.279	8.279	0.000	55	24305	0.4000	0.3822	
100 1,2,3-Trichloropropane	110	8.299	8.289	0.010	48	1362	0.4000	0.4168	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.300	-0.001	37	1973	0.4000	0.4031	
105 2-Chlorotoluene	126	8.372	8.372	0.000	80	5404	0.4000	0.4861	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	92	17540	0.4000	0.4243	
102 4-Chlorotoluene	91	8.455	8.455	0.000	95	16494	0.4000	0.4104	
106 tert-Butylbenzene	134	8.683	8.683	0.000	92	3160	0.4000	0.3778	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	92	18119	0.4000	0.4182	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	19288	0.4000	0.3737	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	87	14190	0.4000	0.3376	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	83	9469	0.4000	0.4179	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	40	8264	0.4000	0.3588	
115 n-Butylbenzene	91	9.305	9.315	-0.010	97	19279	0.4000	0.4203	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	88	10599	0.4000	0.4750	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	1	1049	0.4000	1.32	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	89	5367	0.4000	0.3876	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	18	1988	0.4000	0.3472	
121 Naphthalene	128	10.901	10.901	0.000	62	11708	0.4000	0.3473	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	52	5894	0.4000	0.4451	
S 126 Xylenes, Total	1				0			0.8438	
S 123 1,3-Dichloropropene, Total	1				0			0.9241	
S 124 1,2-Dichloroethene, Total	1				0			0.9266	
S 125 Total BTEX	1				0			2.14	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113

Amount Added: 0.40

Units: uL

GAS CORP mix_00246

Amount Added: 0.40

Units: uL

T_8260_IS_00175

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00158

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D

Injection Date: 19-Oct-2017 16:57:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 0.4

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

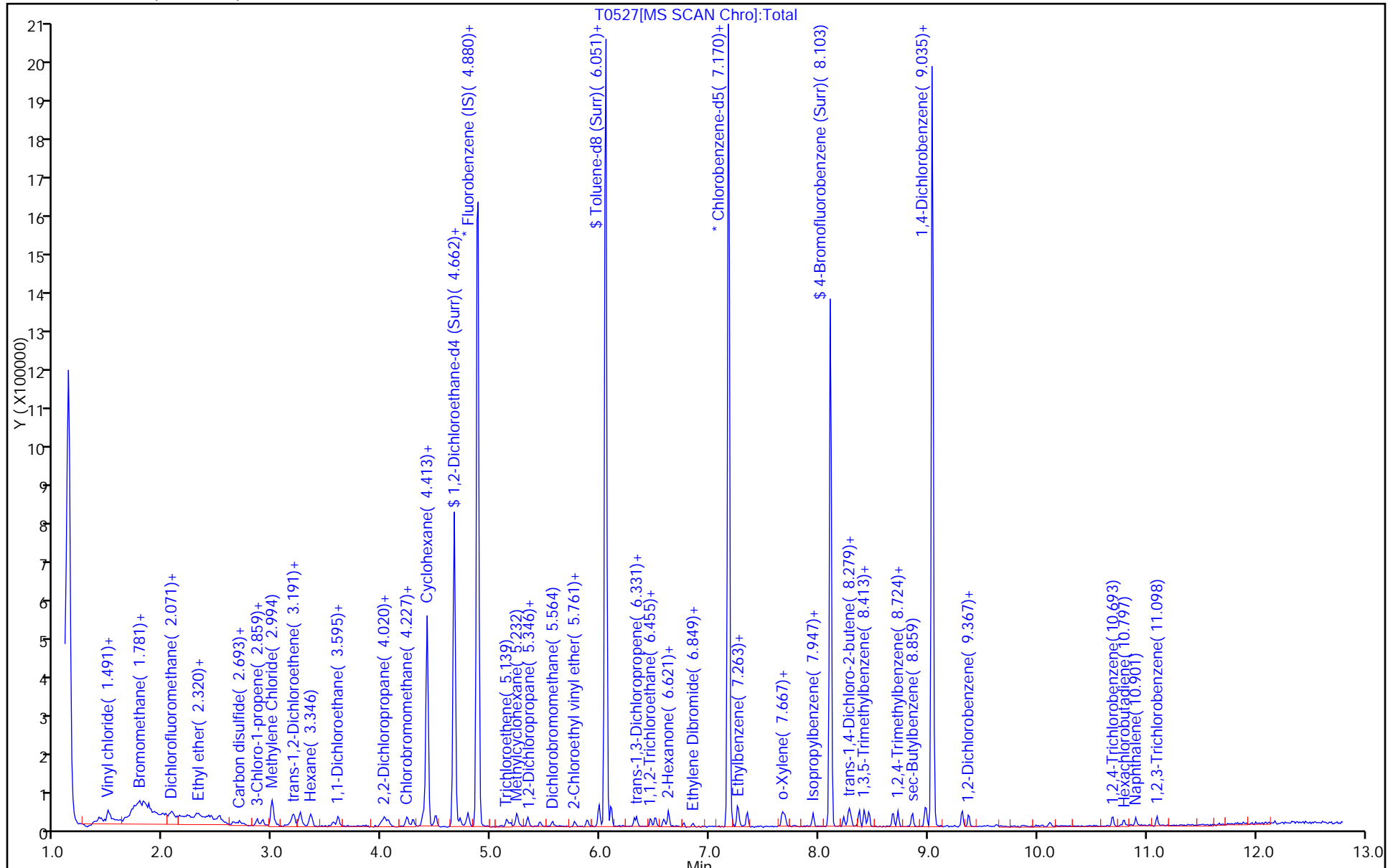
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

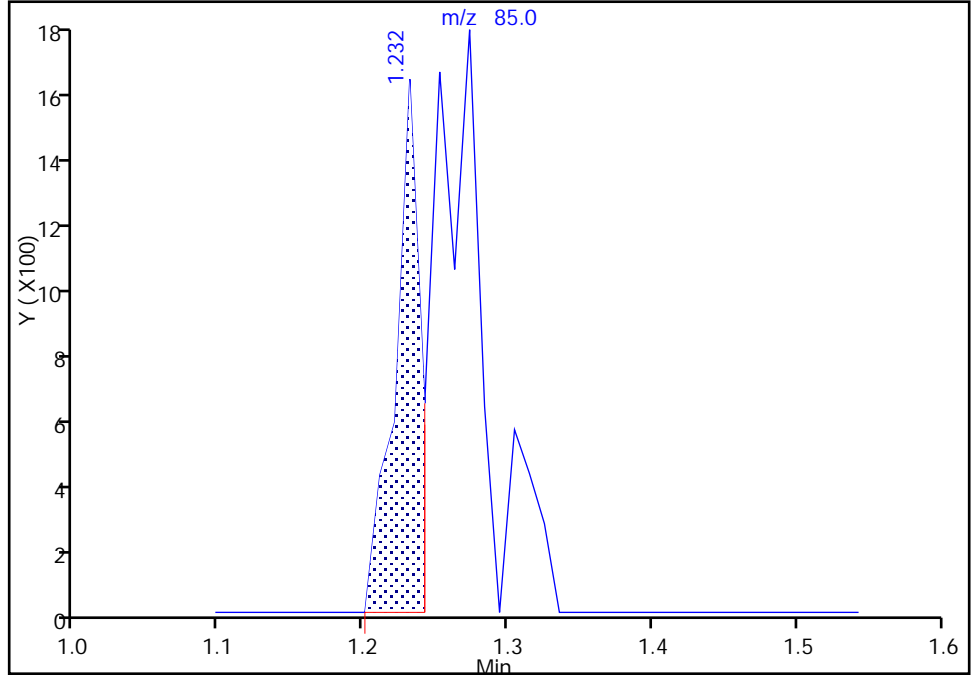
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

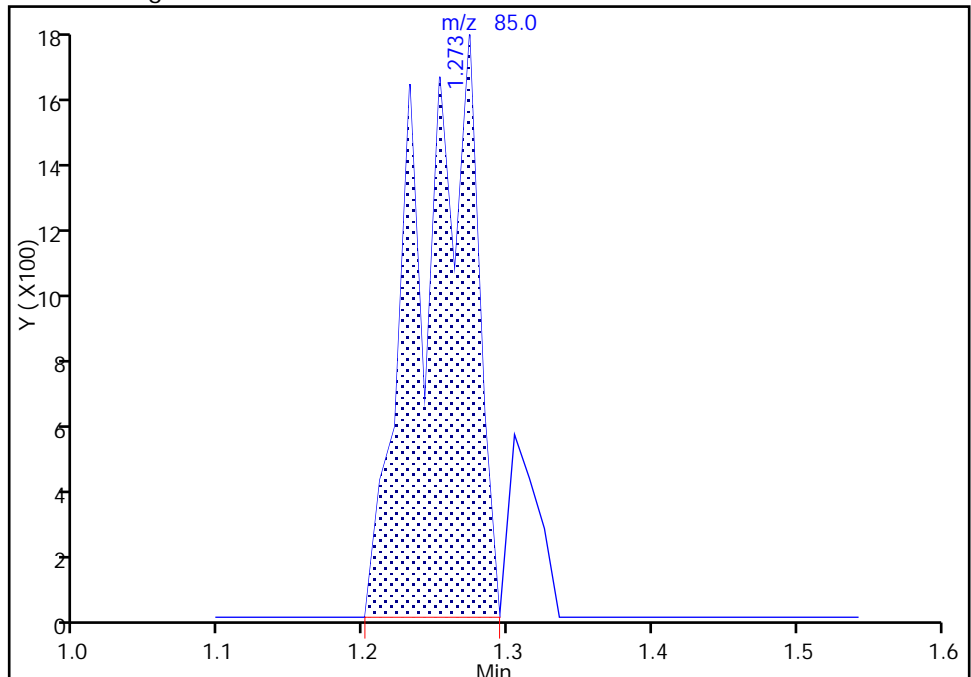
RT: 1.23
Area: 2018
Amount: 0.387778
Amount Units: ug/L

Processing Integration Results



RT: 1.27
Area: 5171
Amount: 0.351077
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:11:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

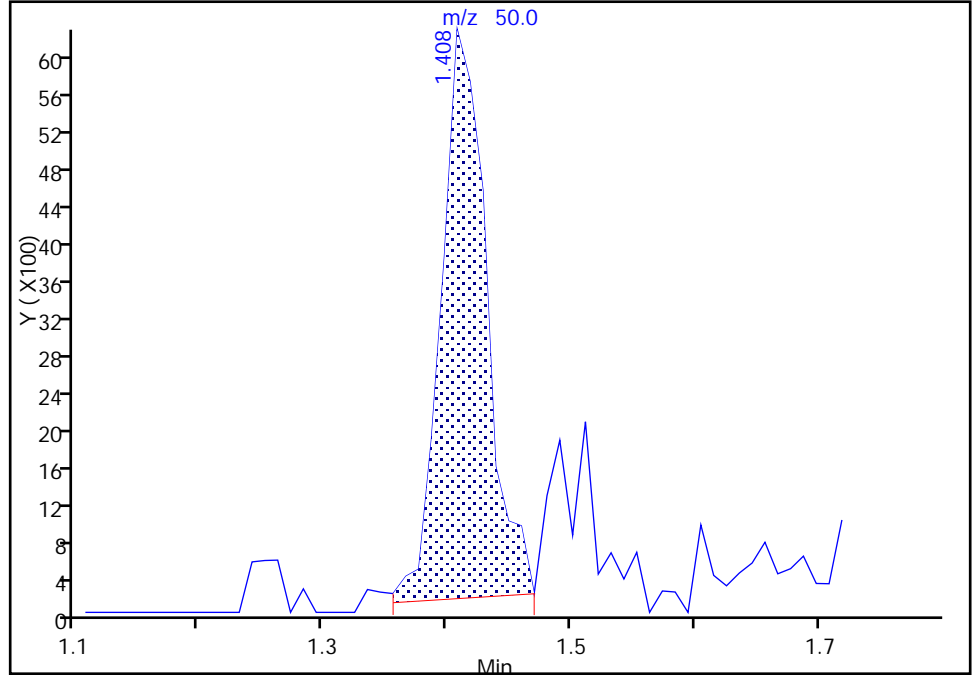
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

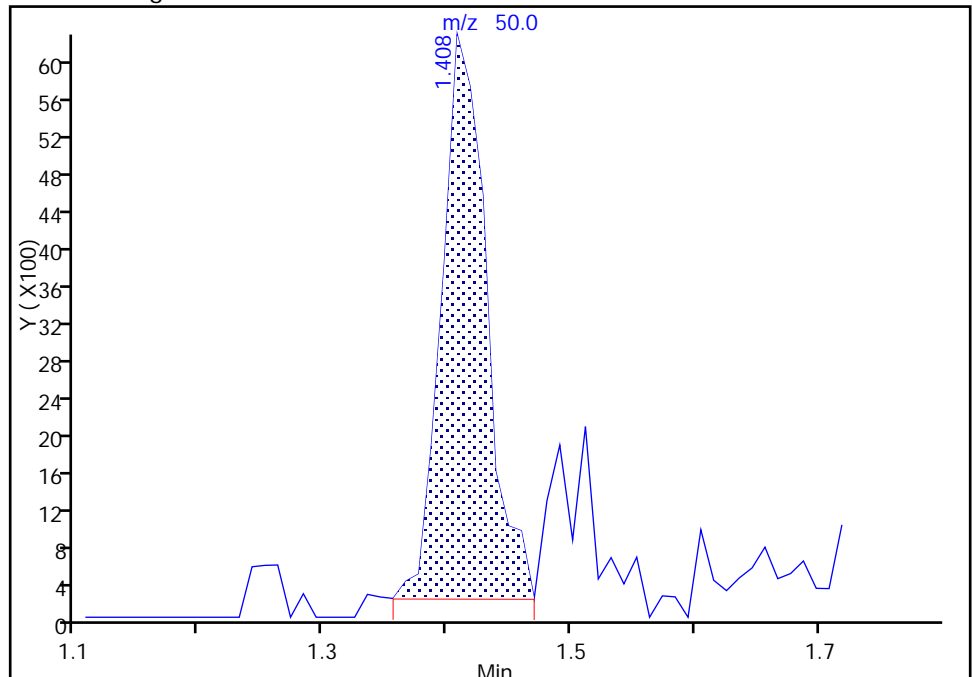
RT: 1.41
Area: 15624
Amount: 0.453753
Amount Units: ug/L

Processing Integration Results



RT: 1.41
Area: 15307
Amount: 0.445829
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:11:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

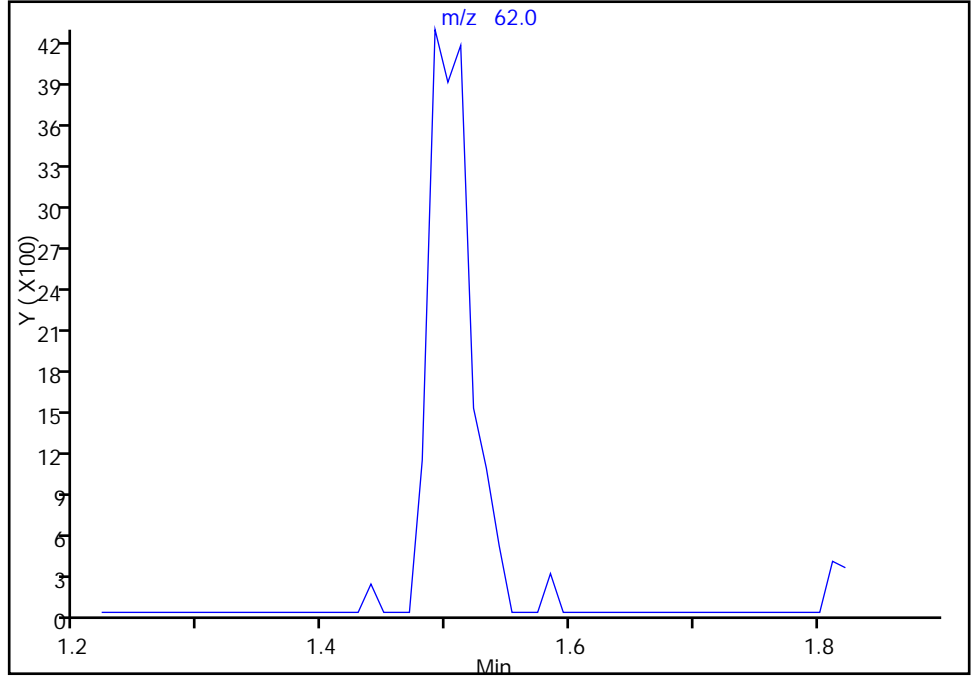
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

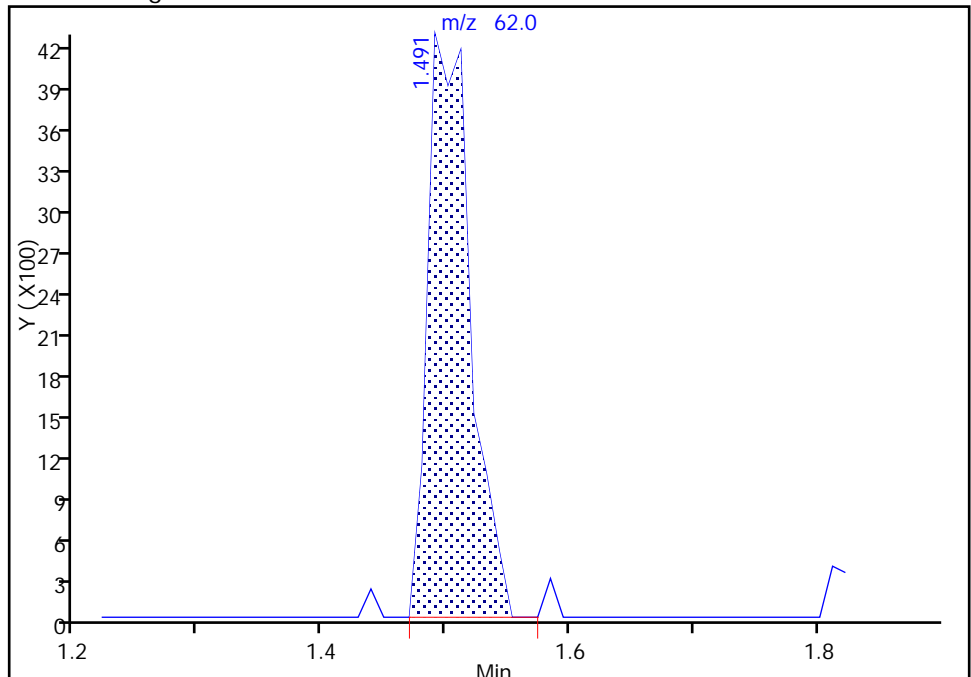
Not Detected
Expected RT: 1.49

Processing Integration Results



Manual Integration Results

RT: 1.49
Area: 10264
Amount: 0.474445
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:12:05
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

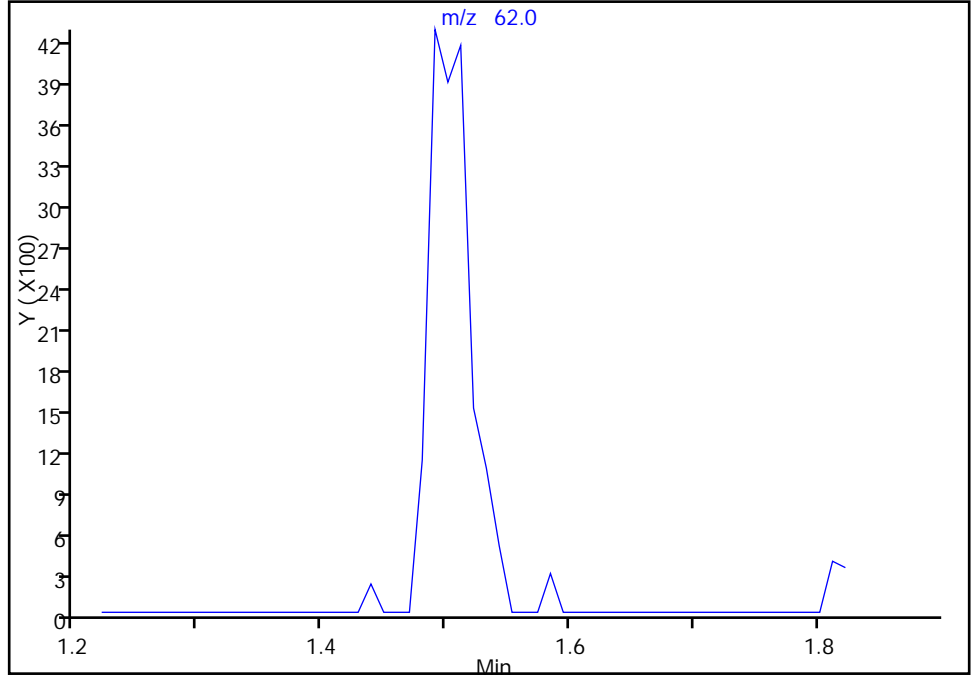
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

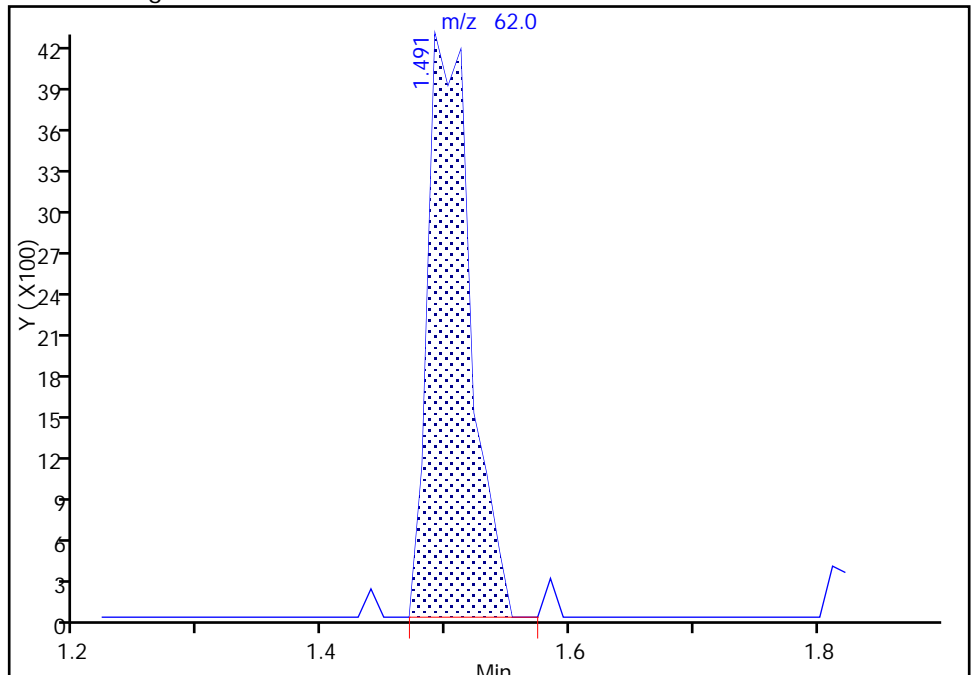
Not Detected
Expected RT: 1.49

Processing Integration Results



Manual Integration Results

RT: 1.49
Area: 10264
Amount: 0.474445
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:12:12

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

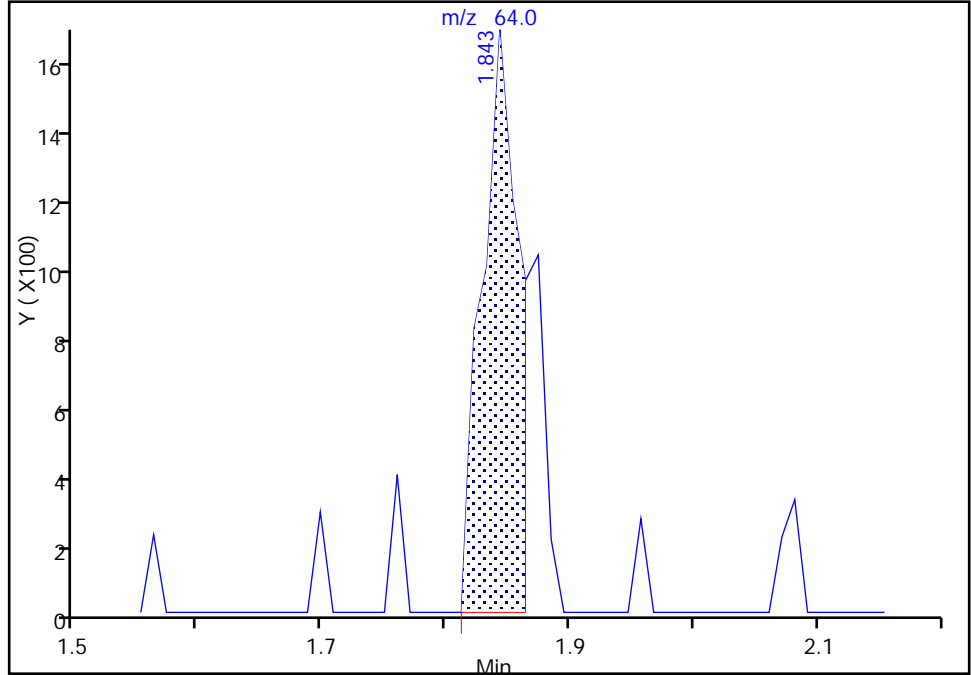
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

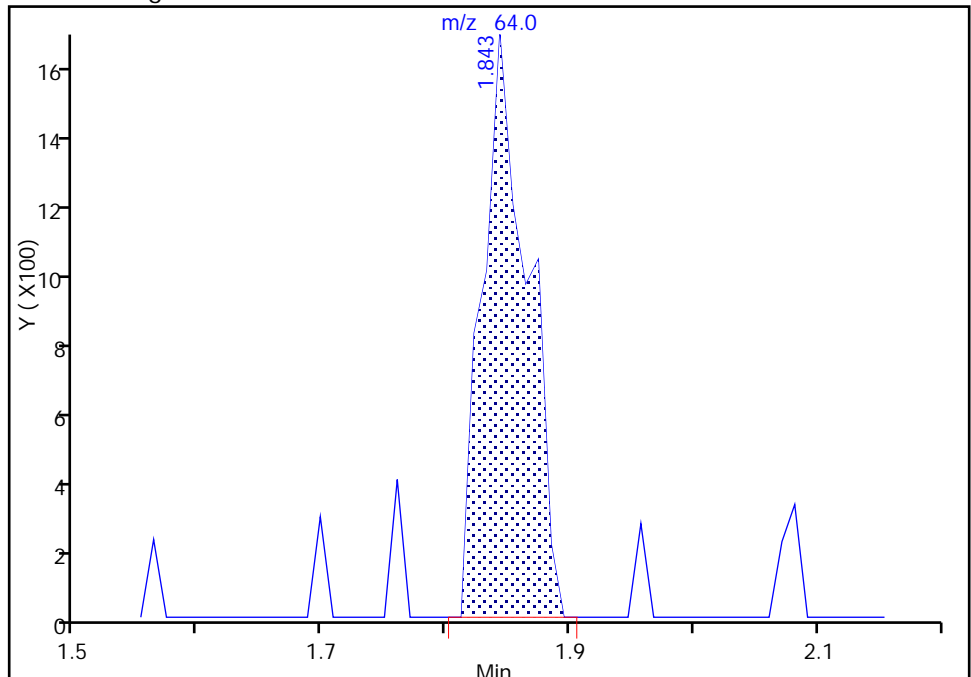
RT: 1.84
Area: 3369
Amount: 0.361369
Amount Units: ug/L

Processing Integration Results



RT: 1.84
Area: 4110
Amount: 0.430166
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:12:24
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

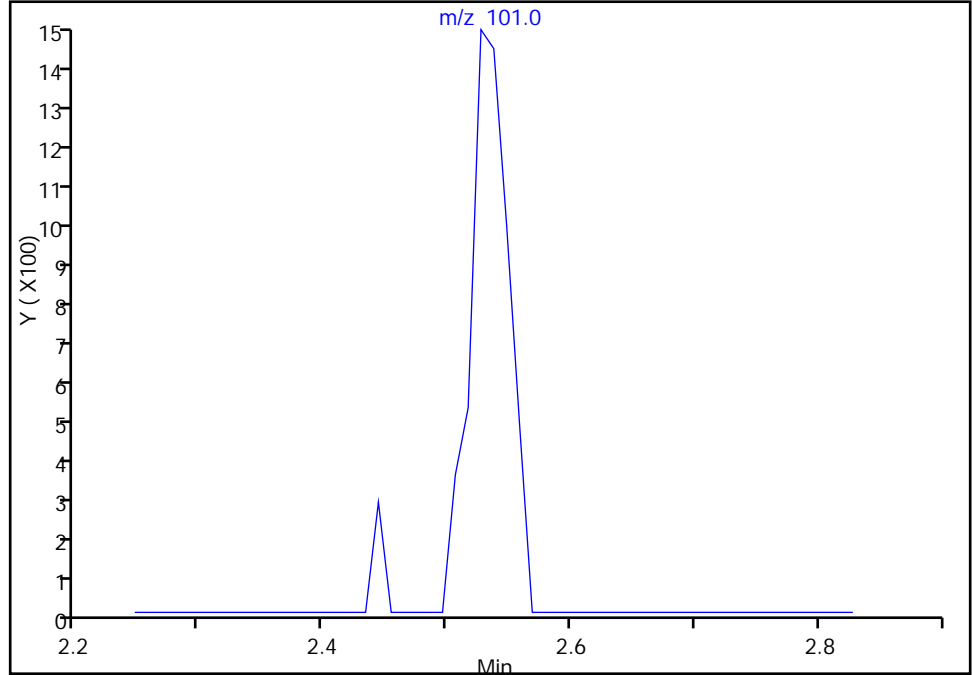
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

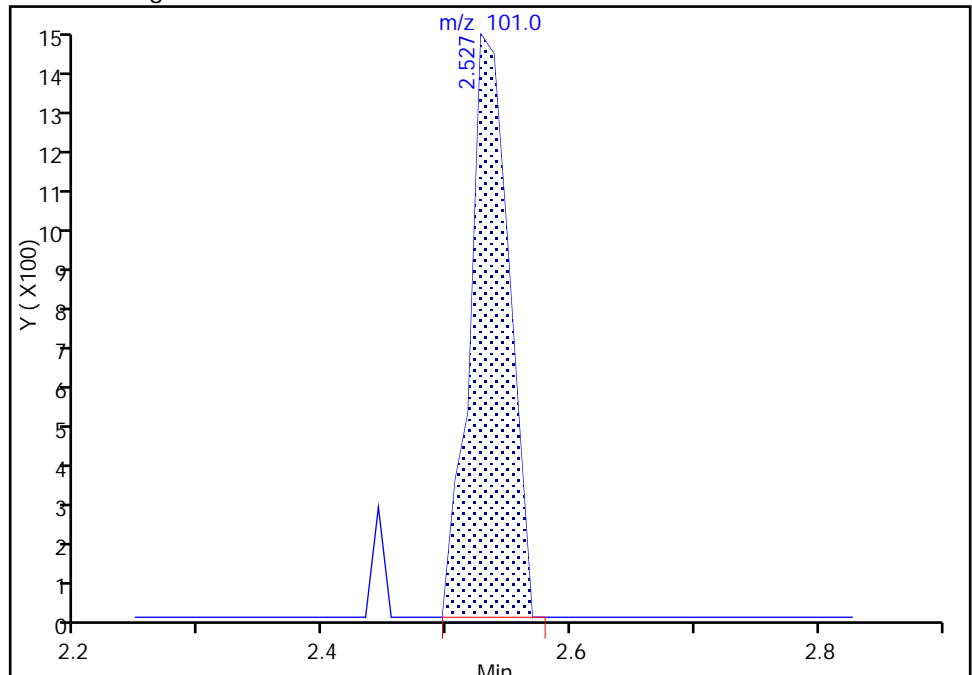
Not Detected
Expected RT: 2.52

Processing Integration Results



Manual Integration Results

RT: 2.53
Area: 3251
Amount: 0.323224
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:14:56
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

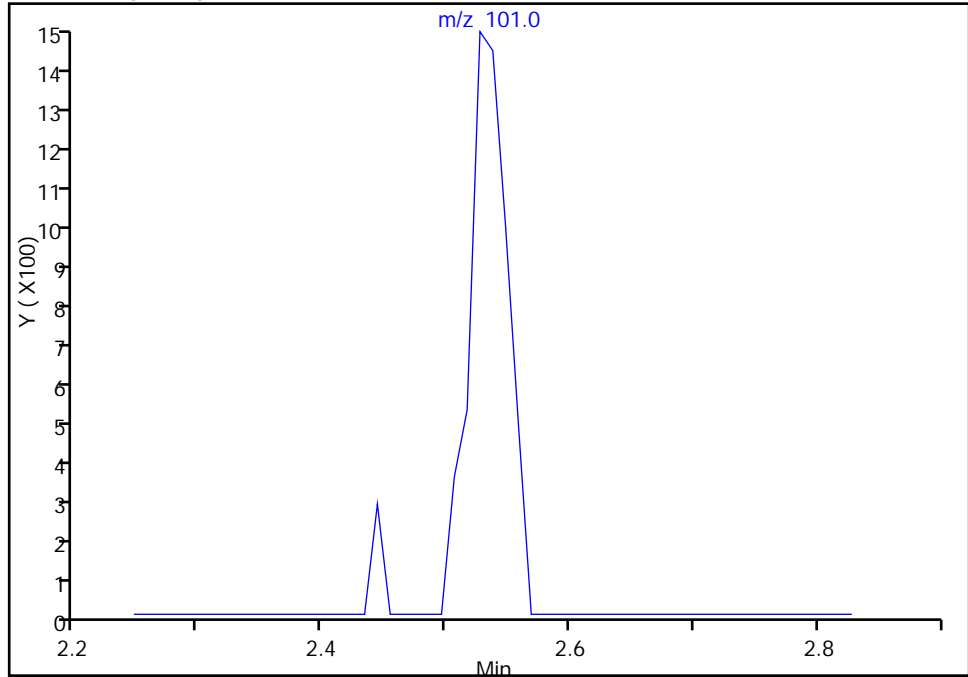
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

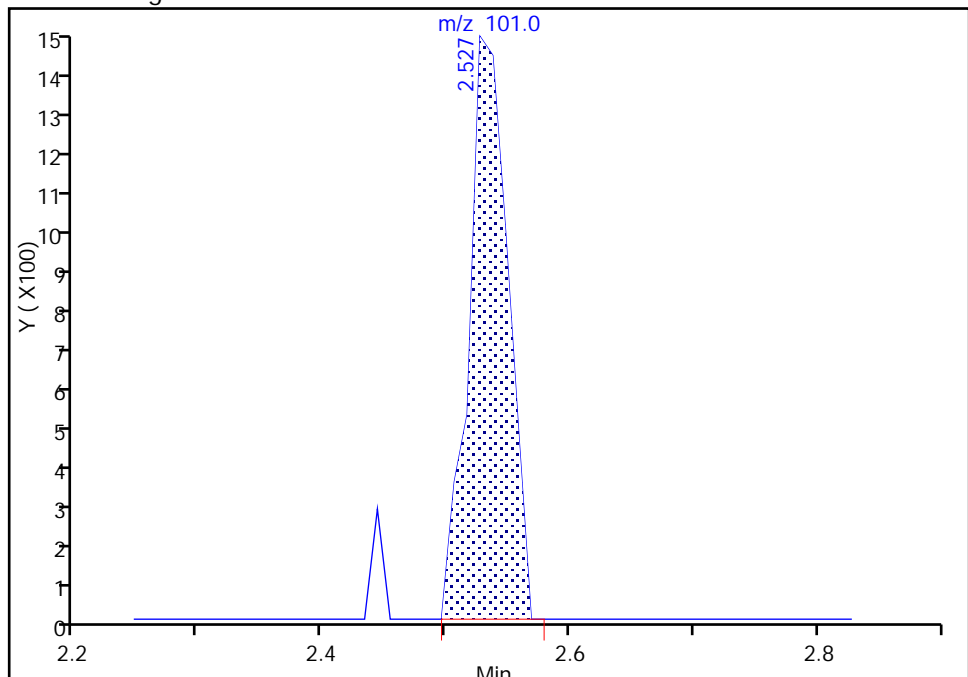
Not Detected
Expected RT: 2.52

Processing Integration Results



Manual Integration Results

RT: 2.53
Area: 3251
Amount: 0.323224
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:15:02

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

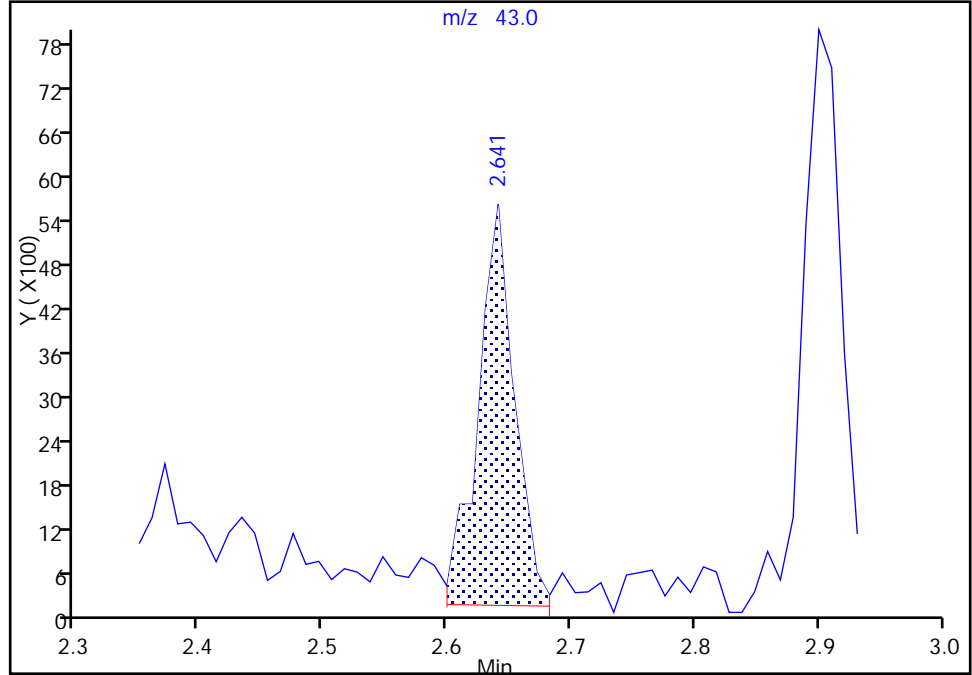
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

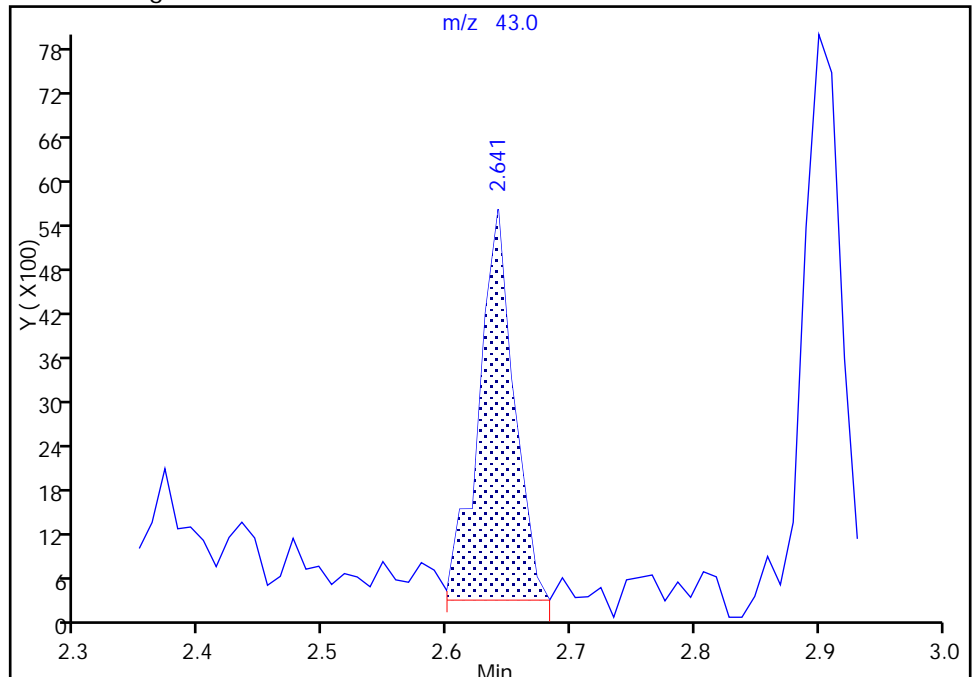
RT: 2.64
Area: 11219
Amount: 2.378790
Amount Units: ug/L

Processing Integration Results



RT: 2.64
Area: 10450
Amount: 2.238550
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:15:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

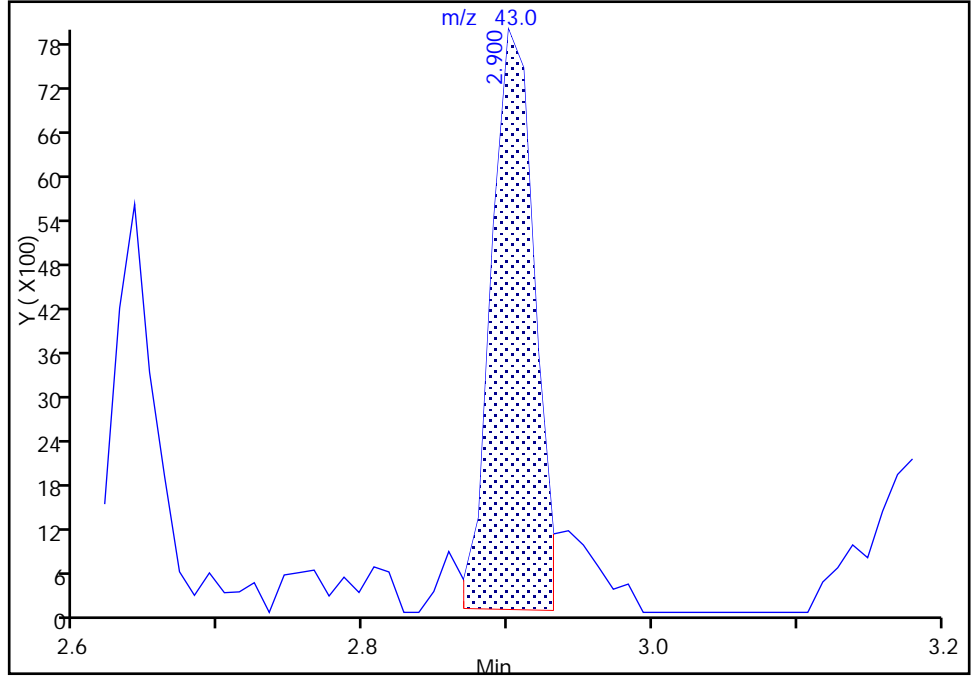
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

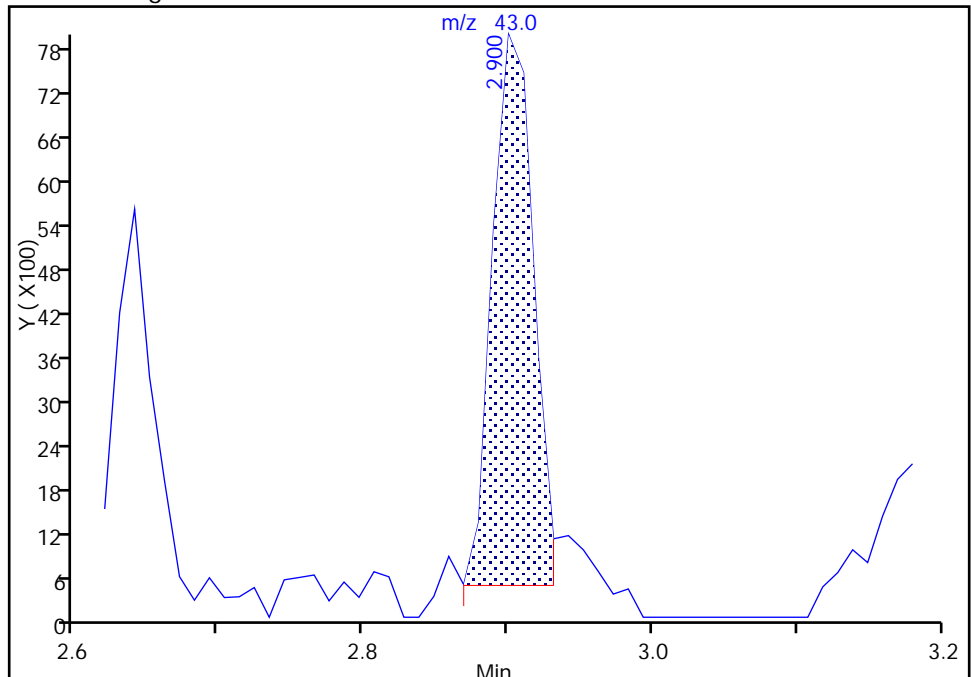
RT: 2.90
Area: 16593
Amount: 0.881275
Amount Units: ug/L

Processing Integration Results



RT: 2.90
Area: 14880
Amount: 0.996217
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:16:15
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

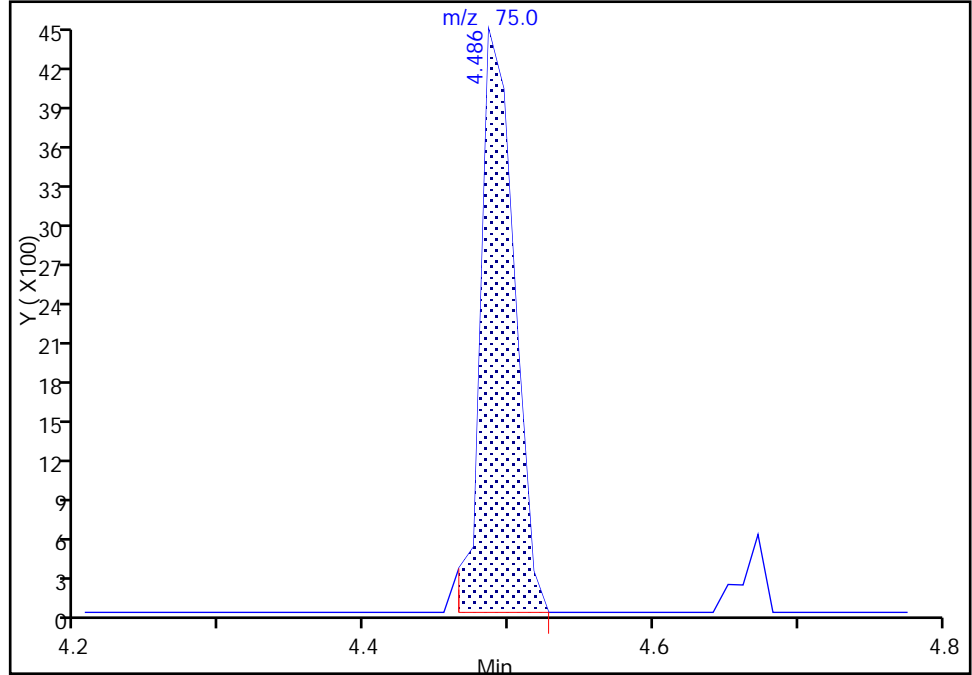
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

54 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

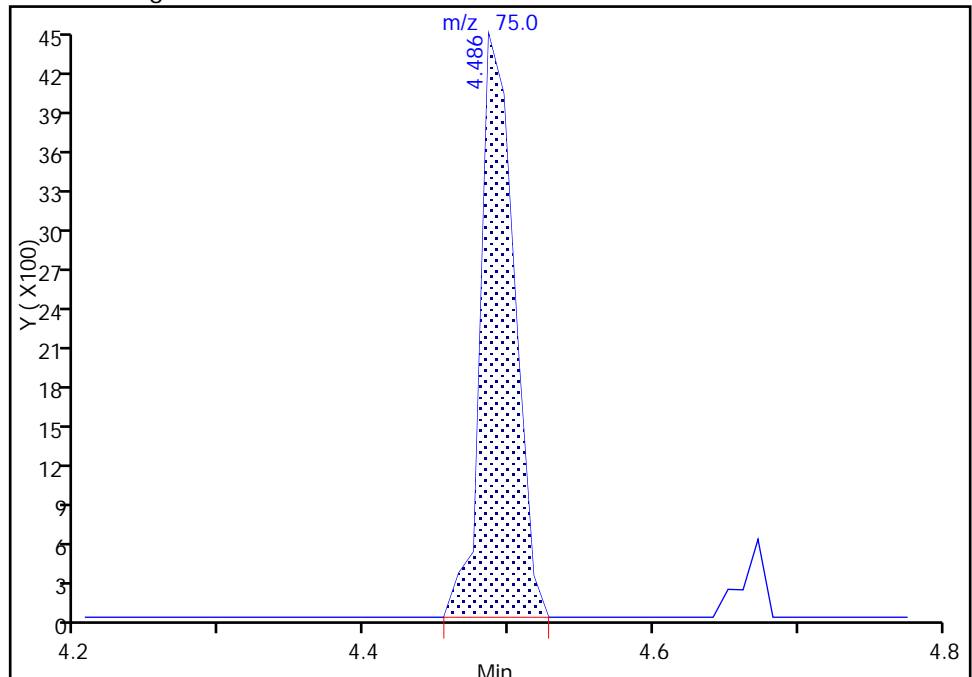
RT: 4.49
Area: 7271
Amount: 0.457223
Amount Units: ug/L

Processing Integration Results



RT: 4.49
Area: 7271
Amount: 0.457223
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:16:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

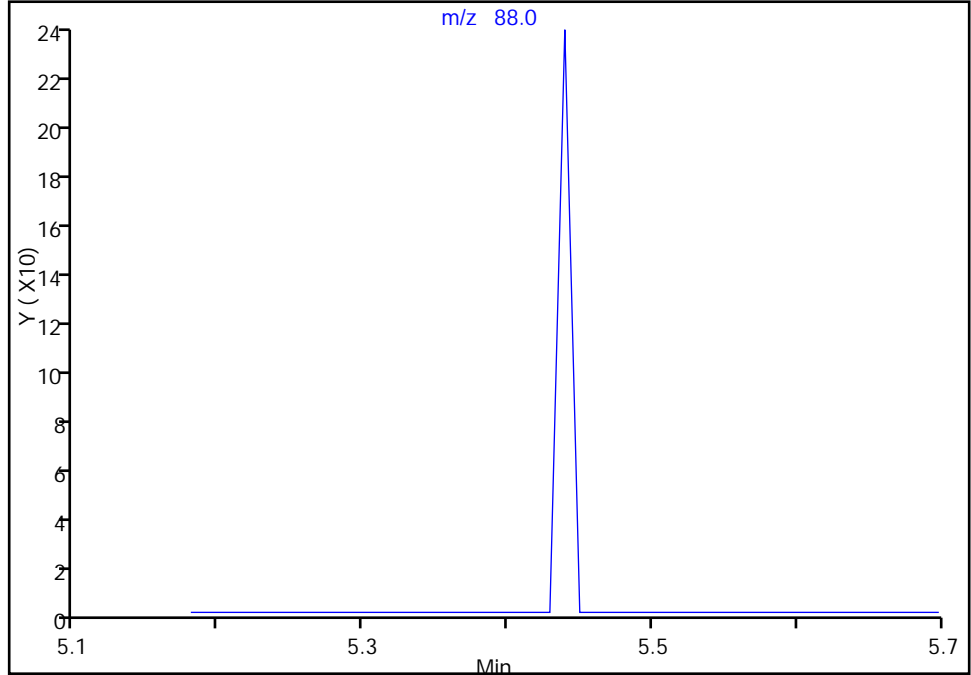
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

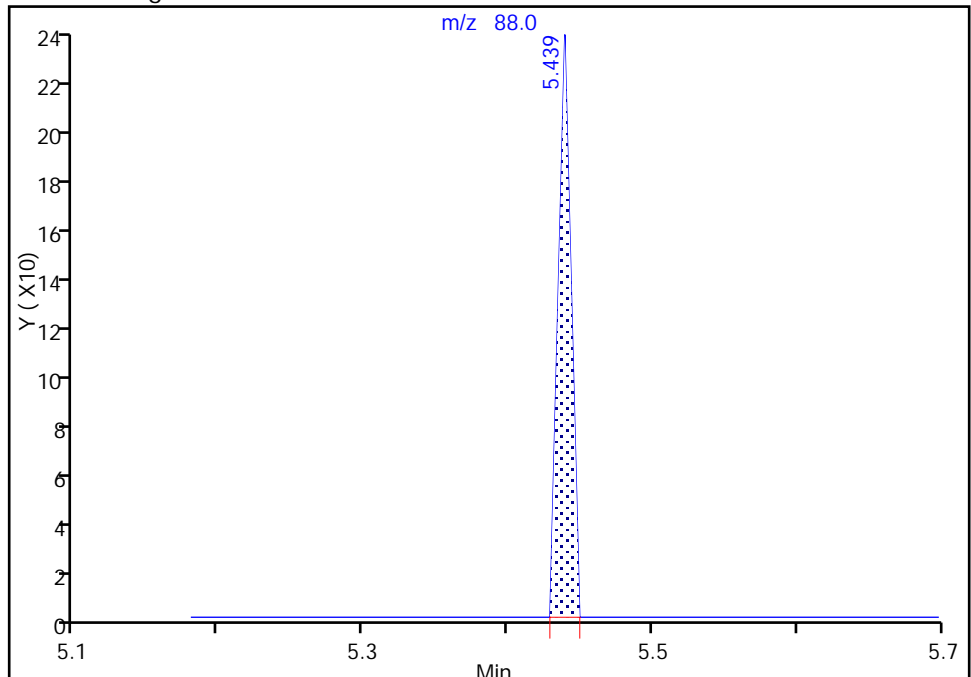
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.44
Area: 147
Amount: 2.423741
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:17:11
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

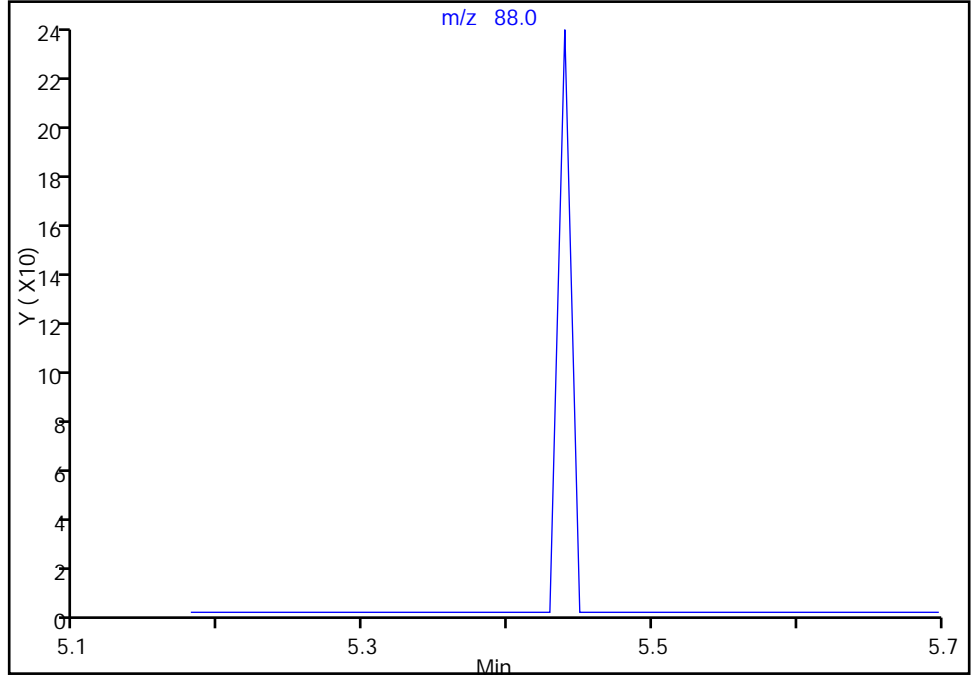
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

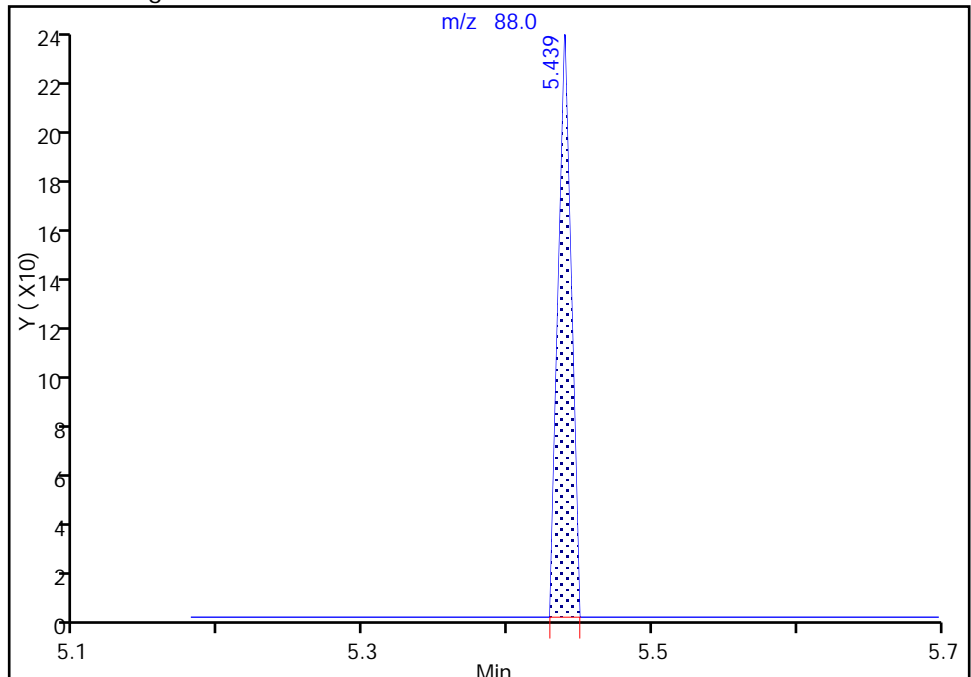
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.44
Area: 147
Amount: 2.423741
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:17:12

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

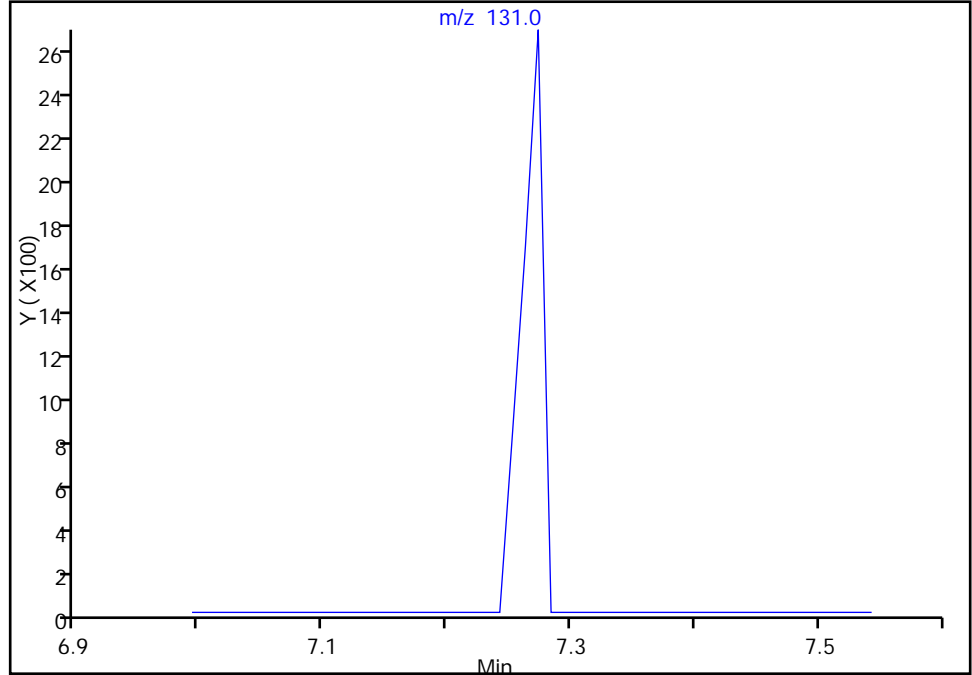
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

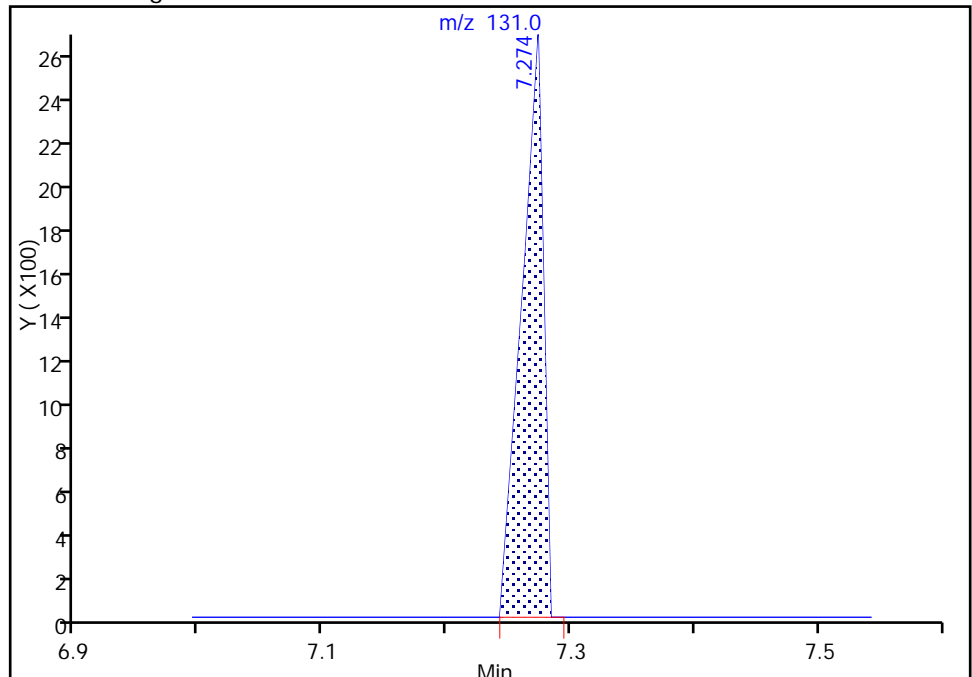
Not Detected
Expected RT: 7.26

Processing Integration Results



Manual Integration Results

RT: 7.27
Area: 3216
Amount: 0.372171
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:18:26
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

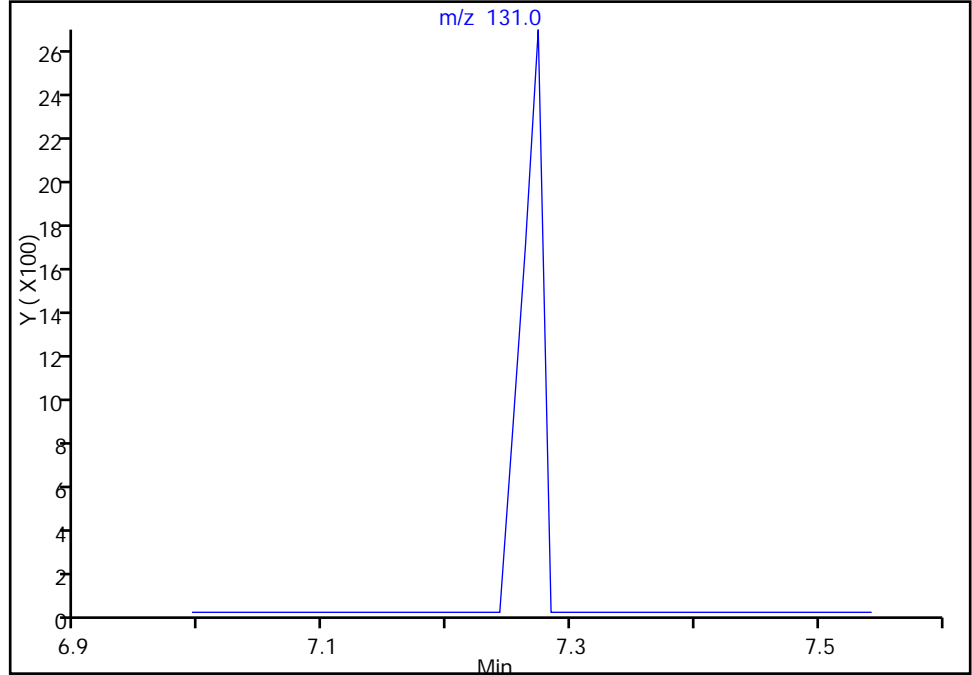
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0527.D
Injection Date: 19-Oct-2017 16:57:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

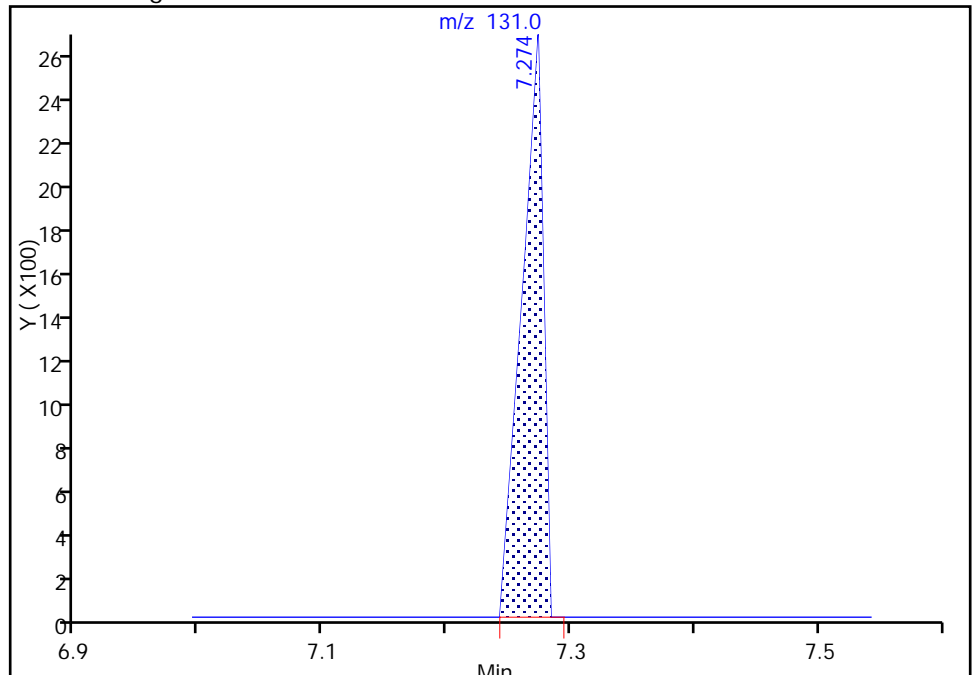
Not Detected
Expected RT: 7.26

Processing Integration Results



Manual Integration Results

RT: 7.27
Area: 3216
Amount: 0.372171
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:18:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Oct-2017 17:21:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 480-0066541-007
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:25:49 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: Hilll

Date: 19-Oct-2017 17:59:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.880	-0.011	97	233615	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	94	738996	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	337315	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	92	261771	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	393524	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	97	989144	25.0	25.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	230319	25.0	24.8	
11 Dichlorodifluoromethane	85	1.232	1.242	-0.010	72	12276	1.00	0.8258	M
13 Chloromethane	50	1.398	1.408	-0.010	98	32768	1.00	0.9456	
14 Vinyl chloride	62	1.491	1.491	0.000	82	21094	1.00	0.9660	
151 Butadiene	54	1.491	1.491	0.000	83	28181	1.00	1.02	
15 Bromomethane	94	1.781	1.781	0.000	88	10061	1.00	1.09	
16 Chloroethane	64	1.843	1.833	0.010	67	8261	1.00	0.8566	
18 Dichlorofluoromethane	67	2.071	2.061	0.010	92	22544	1.00	1.00	
17 Trichlorofluoromethane	101	2.051	2.071	-0.020	59	16969	1.00	0.9430	
19 Ethyl ether	59	2.299	2.299	0.000	76	13658	1.00	1.00	
21 Acrolein	56	2.486	2.486	0.000	96	16096	5.00	4.89	M
22 1,1-Dichloroethene	96	2.496	2.507	-0.011	85	8060	1.00	0.8295	
20 1,1,2-Trichloro-1,2,2-trif	101	2.507	2.517	-0.010	9	9113	1.00	0.8977	
23 Acetone	43	2.631	2.631	0.000	91	21933	5.00	4.65	
24 Iodomethane	142	2.662	2.662	0.000	95	13587	1.00	0.8680	
25 Carbon disulfide	76	2.693	2.693	0.000	95	33507	1.00	0.8905	
27 3-Chloro-1-propene	41	2.849	2.859	-0.010	85	30298	1.00	0.8507	M
28 Methyl acetate	43	2.900	2.890	0.010	87	30388	2.00	2.02	
30 Methylene Chloride	84	2.983	2.994	-0.011	87	28205	1.00	0.9541	
31 2-Methyl-2-propanol	59	3.170	3.149	0.021	34	9325	10.0	9.21	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	80	29117	1.00	0.8872	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	86	10067	1.00	0.8772	
34 Acrylonitrile	53	3.242	3.242	0.000	91	55719	10.0	8.31	
35 Hexane	57	3.346	3.346	0.000	92	28797	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	94	25621	1.00	0.9404	
39 Vinyl acetate	43	3.584	3.595	-0.011	97	78658	2.00	1.83	
42 2,2-Dichloropropane	77	3.989	3.999	-0.010	63	15460	1.00	0.8840	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	1	11218	1.00	0.8171	M
44 2-Butanone (MEK)	43	4.051	4.051	0.000	97	38686	5.00	4.83	
47 Chlorobromomethane	128	4.217	4.217	0.000	79	4540	1.00	0.8101	
48 Tetrahydrofuran	42	4.237	4.227	0.010	80	11630	2.00	2.09	M
50 Chloroform	83	4.279	4.279	0.000	69	18636	1.00	0.8894	M
52 Cyclohexane	56	4.382	4.372	0.010	93	28236	1.00	0.8207	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	77	13710	1.00	0.8091	
53 Carbon tetrachloride	117	4.486	4.486	0.000	69	11081	1.00	0.8890	
54 1,1-Dichloropropene	75	4.496	4.486	0.010	75	11390	1.00	0.7096	
56 Isobutyl alcohol	43	4.673	4.652	0.021	16	11859	25.0	22.3	M
55 Benzene	78	4.652	4.662	-0.010	42	42556	1.00	0.9084	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	93	24591	1.00	1.08	
59 n-Heptane	43	4.787	4.787	0.000	93	33491	1.00	0.9235	
60 Trichloroethene	95	5.139	5.139	0.000	92	12294	1.00	1.04	
62 Methylcyclohexane	83	5.232	5.232	0.000	89	17530	1.00	0.8784	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	88	15194	1.00	0.9455	
66 1,4-Dioxane	88	5.439	5.439	0.000	1	1011	20.0	17.1	M
65 Dibromomethane	93	5.439	5.450	-0.011	84	7462	1.00	0.9800	
67 Dichlorobromomethane	83	5.564	5.564	0.000	88	12787	1.00	0.8936	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	87	8180	1.00	0.8870	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	82	15611	1.00	0.8731	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	98	74503	5.00	4.36	
73 Toluene	92	6.092	6.092	0.000	96	27126	1.00	0.9757	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	89	11802	1.00	0.7609	
77 Ethyl methacrylate	69	6.331	6.331	0.000	87	9267	1.00	0.7419	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	88	7659	1.00	0.9329	
79 Tetrachloroethene	166	6.507	6.496	0.011	88	9416	1.00	0.9713	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	87	15846	1.00	0.9140	
81 2-Hexanone	43	6.621	6.621	0.000	93	49311	5.00	4.37	
82 Chlorodibromomethane	129	6.766	6.766	0.000	85	6114	1.00	0.8049	
83 Ethylene Dibromide	107	6.849	6.849	0.000	92	7853	1.00	0.8712	
86 Chlorobenzene	112	7.201	7.191	0.010	93	24662	1.00	0.8016	
88 Ethylbenzene	91	7.253	7.253	0.000	98	49712	1.00	0.9213	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	79	5282	1.00	0.6282	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	15028	1.00	0.8018	
91 o-Xylene	106	7.667	7.667	0.000	96	16378	1.00	0.8754	
92 Styrene	104	7.688	7.688	0.000	92	28043	1.00	0.9017	
93 Bromoform	173	7.885	7.885	0.000	40	2291	1.00	0.6945	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	41233	1.00	0.9067	
97 Bromobenzene	156	8.227	8.227	0.000	95	10108	1.00	0.9758	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	1	9743	1.00	0.8984	M
99 N-Propylbenzene	91	8.279	8.279	0.000	70	55461	1.00	0.8984	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	79	2950	1.00	0.9300	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	58	3724	1.00	0.7839	
105 2-Chlorotoluene	126	8.372	8.372	0.000	93	8347	1.00	0.7736	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	95	34915	1.00	0.8701	
102 4-Chlorotoluene	91	8.455	8.455	0.000	96	37846	1.00	0.9701	
106 tert-Butylbenzene	134	8.673	8.683	-0.010	90	8466	1.00	1.04	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	97	38914	1.00	0.9254	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	95	43168	1.00	0.8618	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	95	32307	1.00	0.7920	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	89	20819	1.00	0.9467	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	22437	1.00	1.00	
115 n-Butylbenzene	91	9.305	9.315	-0.010	98	38062	1.00	0.8549	
116 1,2-Dichlorobenzene	146	9.377	9.367	0.010	94	19353	1.00	0.8937	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	1	979	1.00	1.30	M
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	89	14524	1.00	1.08	
120 Hexachlorobutadiene	225	10.787	10.797	-0.010	69	4067	1.00	0.7318	
121 Naphthalene	128	10.901	10.901	0.000	96	28980	1.00	0.8858	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	69	11118	1.00	0.8651	
S 124 1,2-Dichloroethene, Total	1				0			1.69	
S 125 Total BTEX	1				0			4.48	
S 126 Xylenes, Total	1				0			1.68	
S 123 1,3-Dichloropropene, Total	1				0			1.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113

Amount Added: 1.00

Units: uL

GAS CORP mix_00246

Amount Added: 1.00

Units: uL

T_8260_IS_00175

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00158

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D

Injection Date: 19-Oct-2017 17:21:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

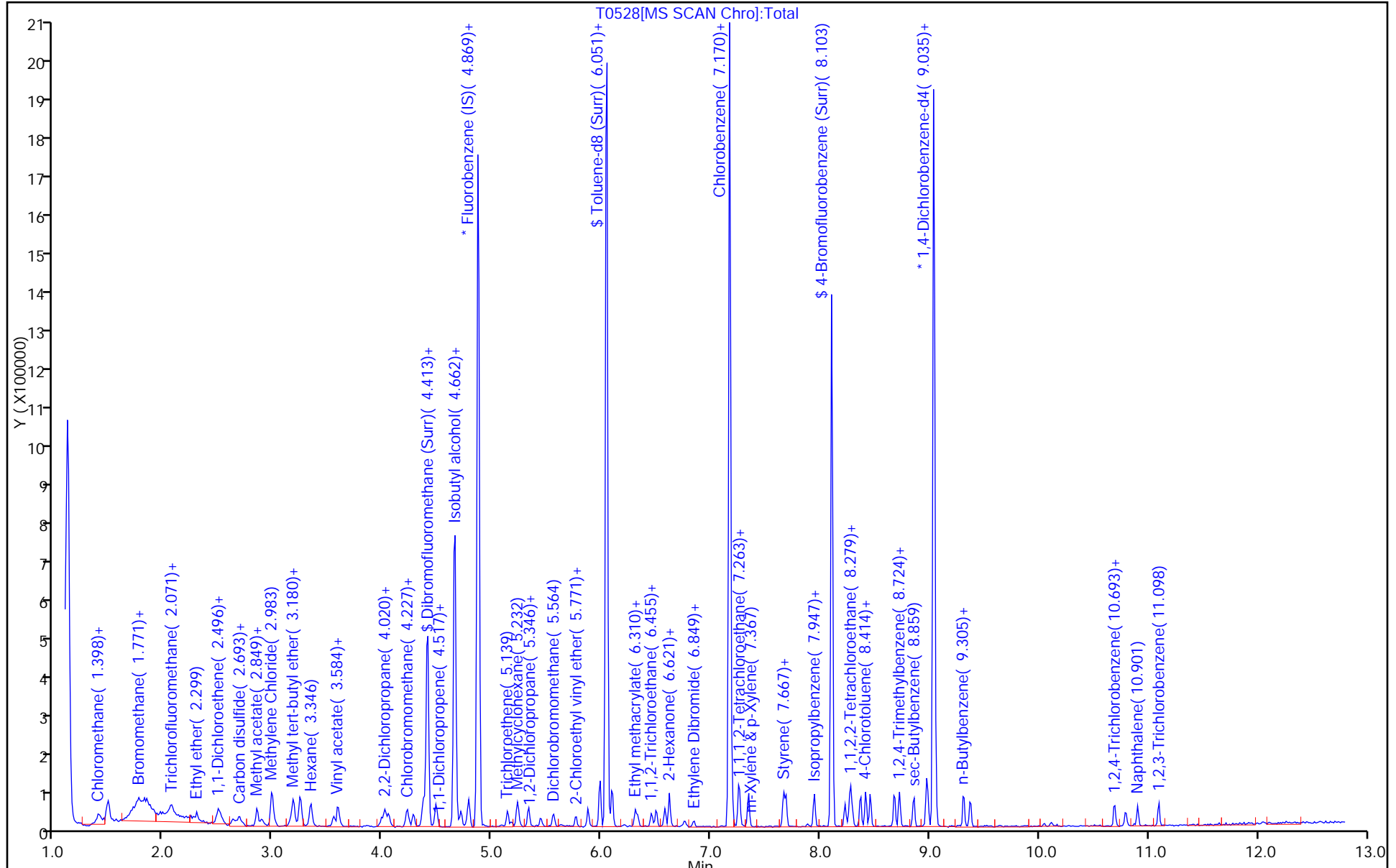
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

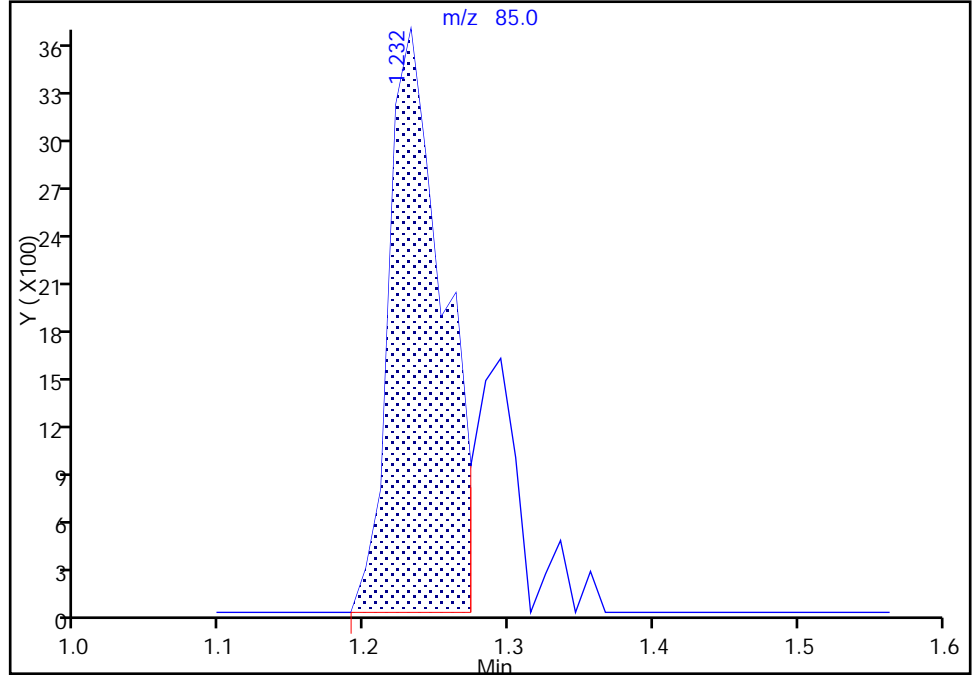
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

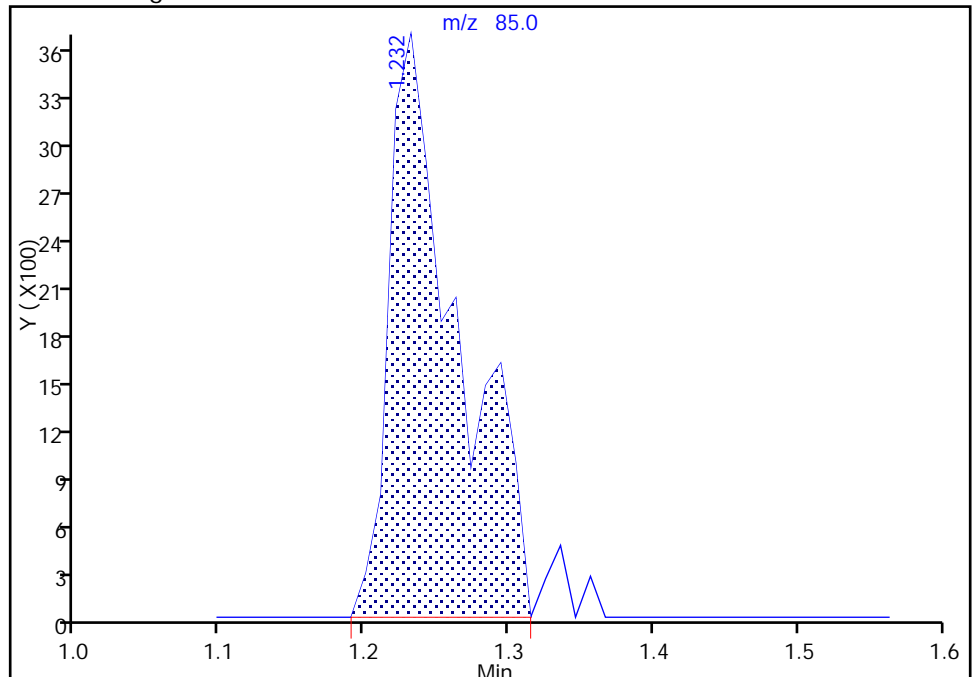
RT: 1.23
Area: 9750
Amount: 0.670073
Amount Units: ug/L

Processing Integration Results



RT: 1.23
Area: 12276
Amount: 0.825754
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:20:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

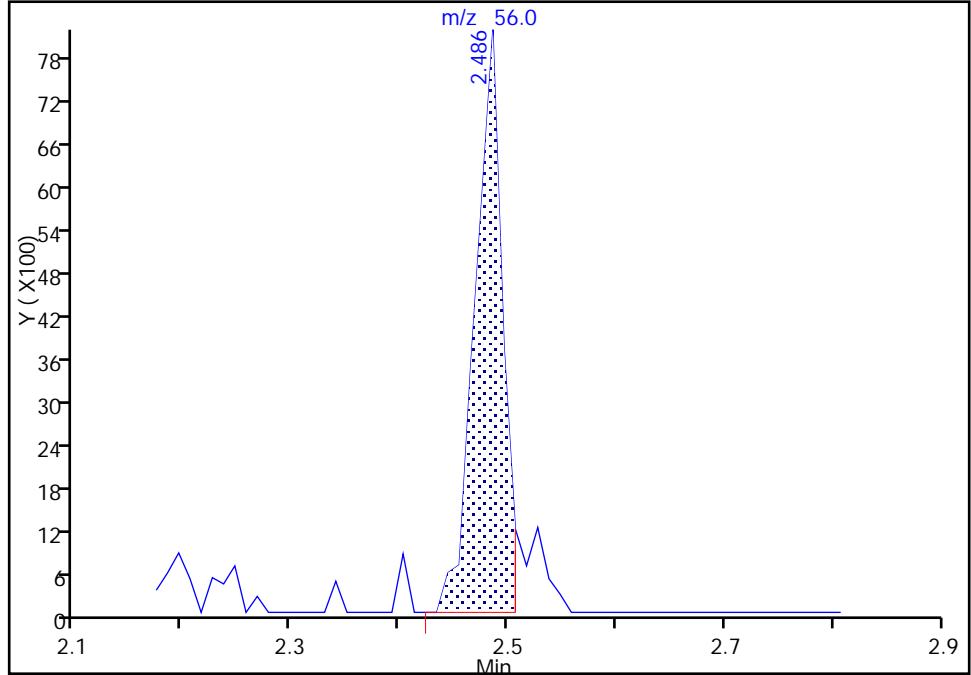
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 Acrolein, CAS: 107-02-8

Signal: 1

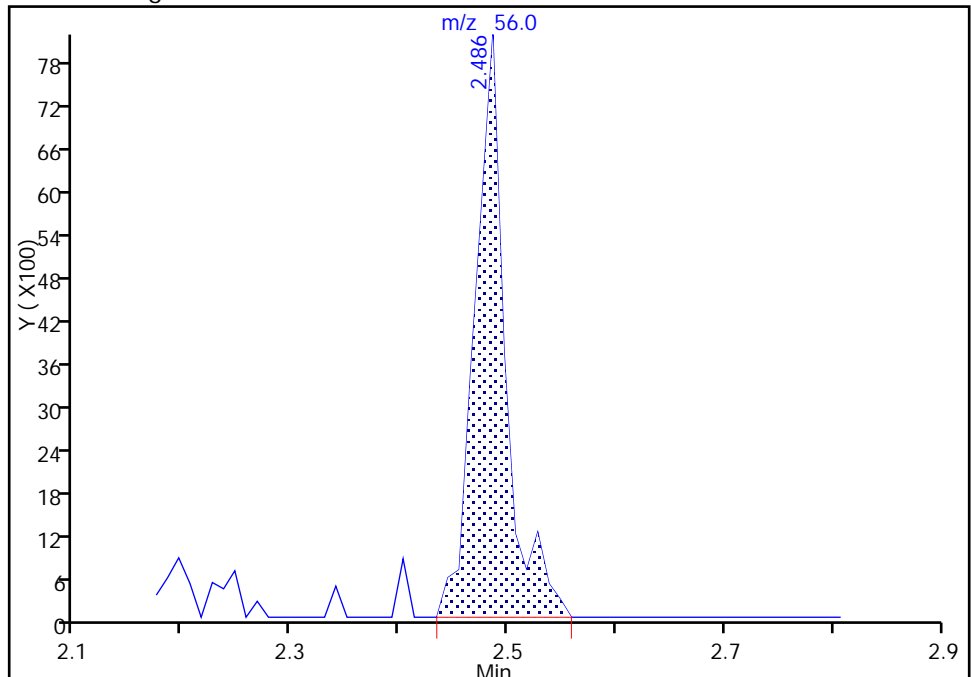
RT: 2.49
Area: 14510
Amount: 4.342376
Amount Units: ug/L

Processing Integration Results



RT: 2.49
Area: 16096
Amount: 4.887914
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:21:24
Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

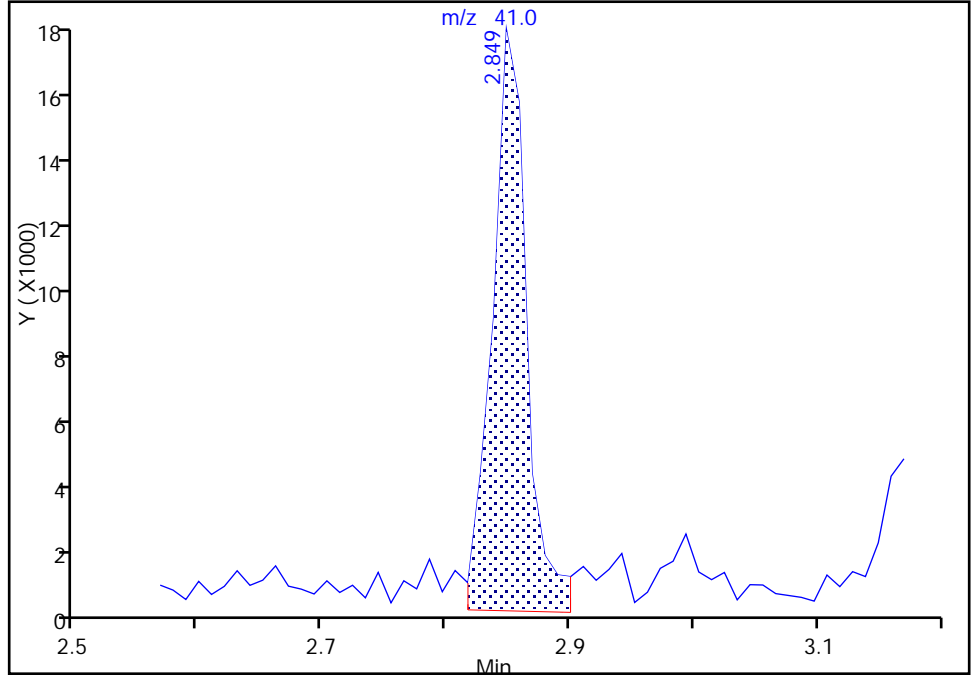
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

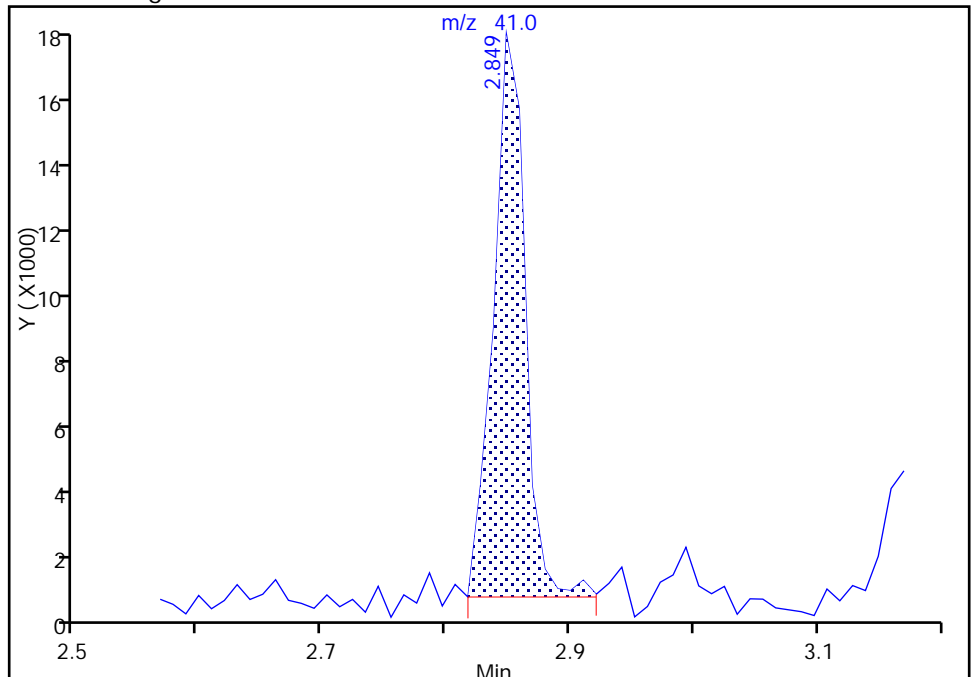
RT: 2.85
Area: 34799
Amount: 0.961896
Amount Units: ug/L

Processing Integration Results



RT: 2.85
Area: 30298
Amount: 0.850712
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:22:00
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

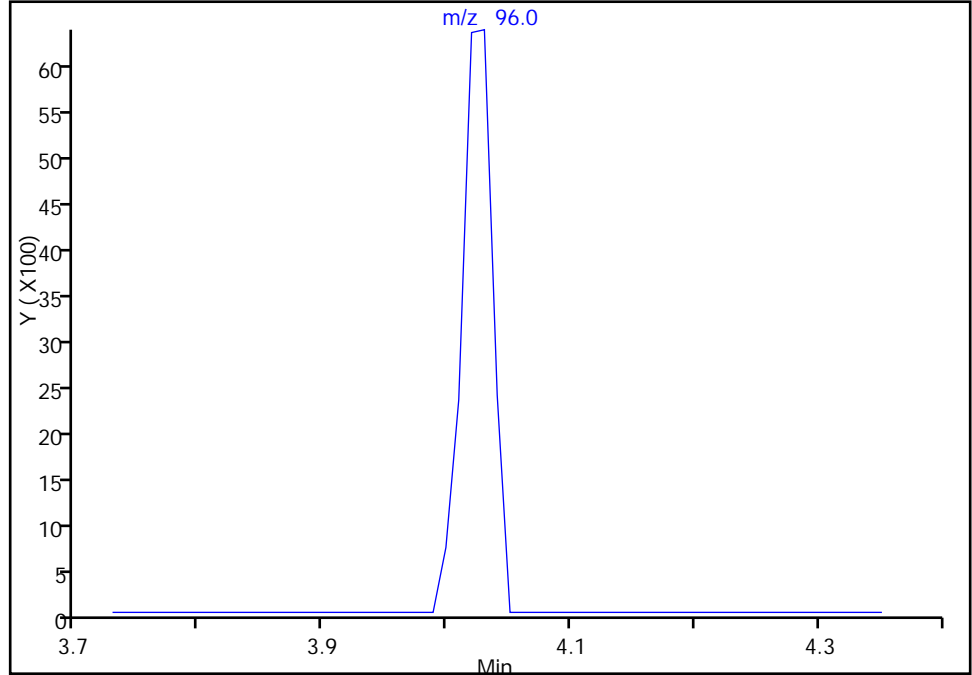
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

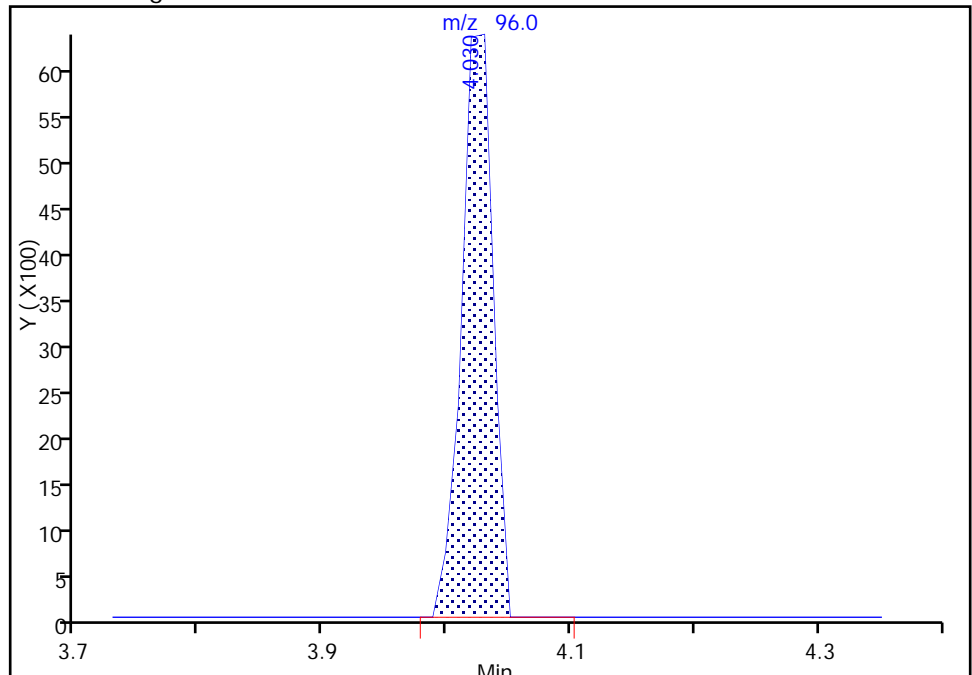
Signal: 1

Not Detected
Expected RT: 4.02

Processing Integration Results



Manual Integration Results



RT: 4.03
Area: 11218
Amount: 0.817136
Amount Units: ug/L

Reviewer: reiler, 20-Oct-2017 10:22:37
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

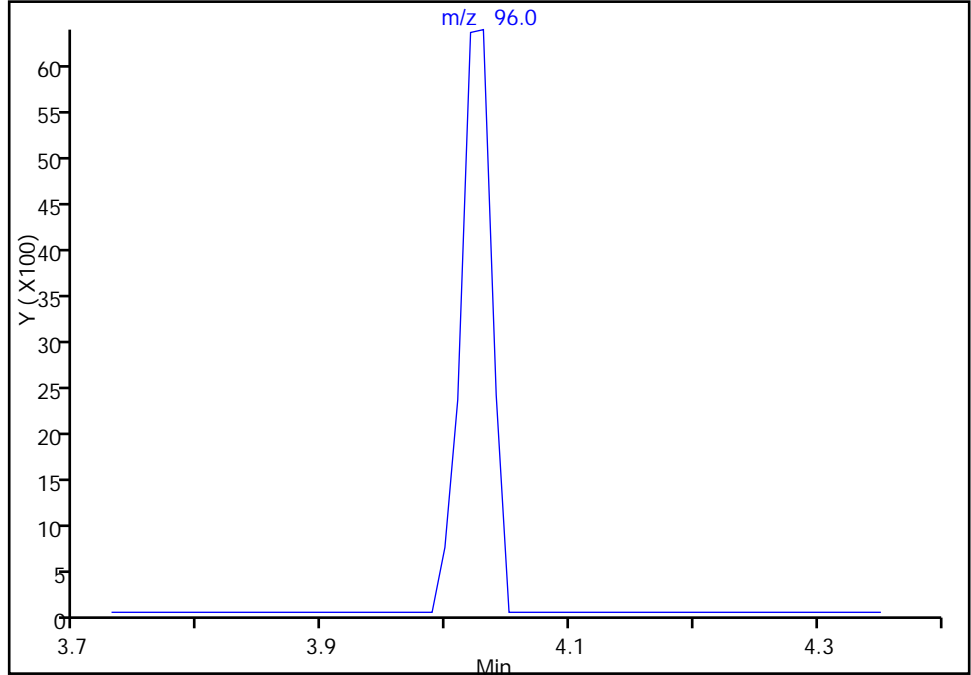
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

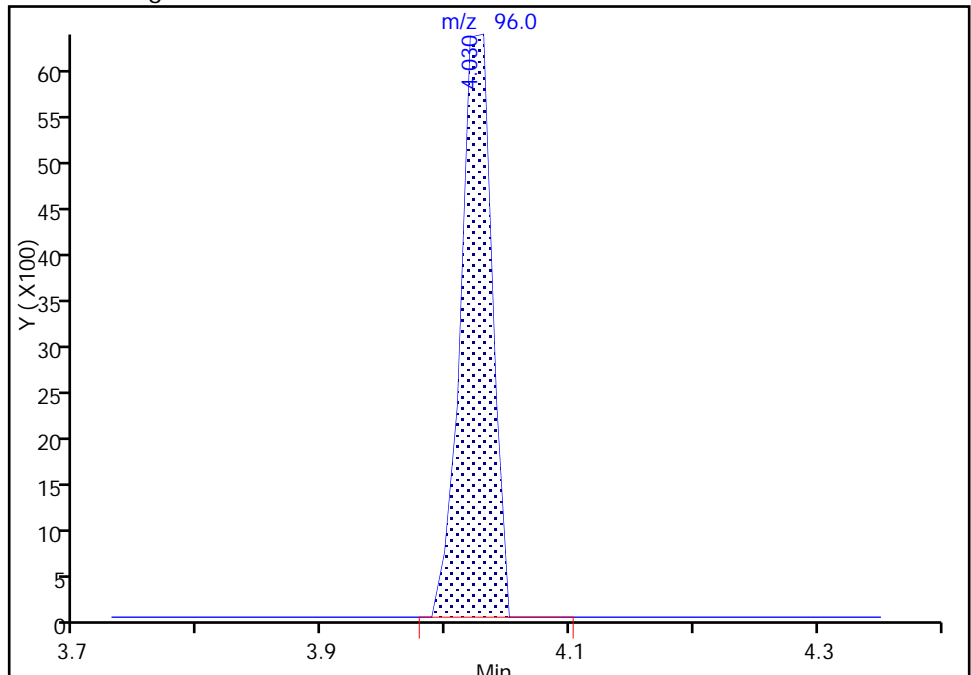
Not Detected
Expected RT: 4.02

Processing Integration Results



Manual Integration Results

RT: 4.03
Area: 11218
Amount: 0.817136
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:22:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

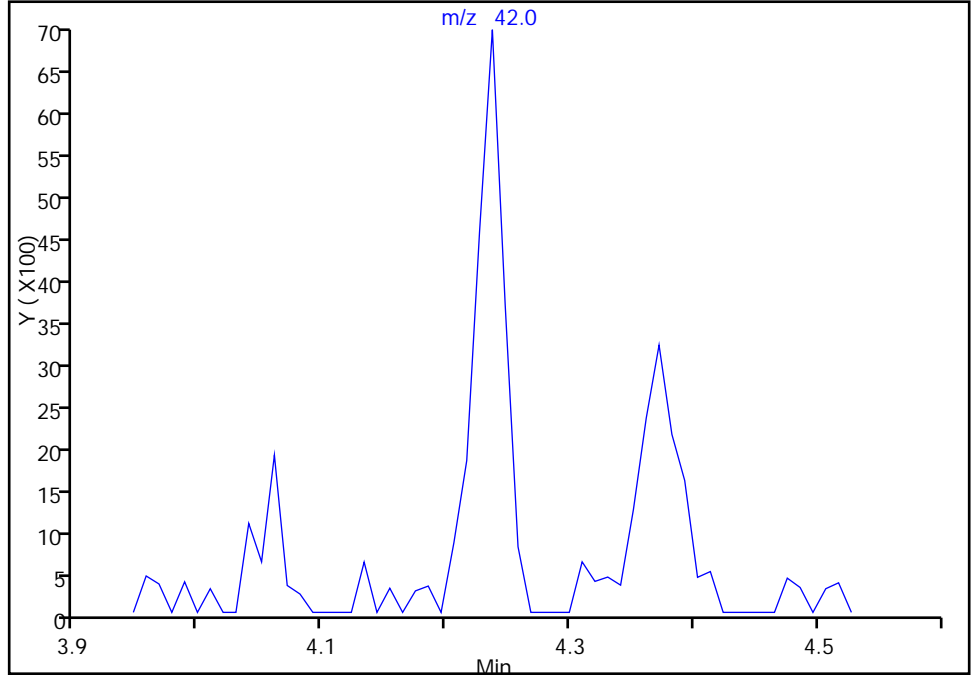
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

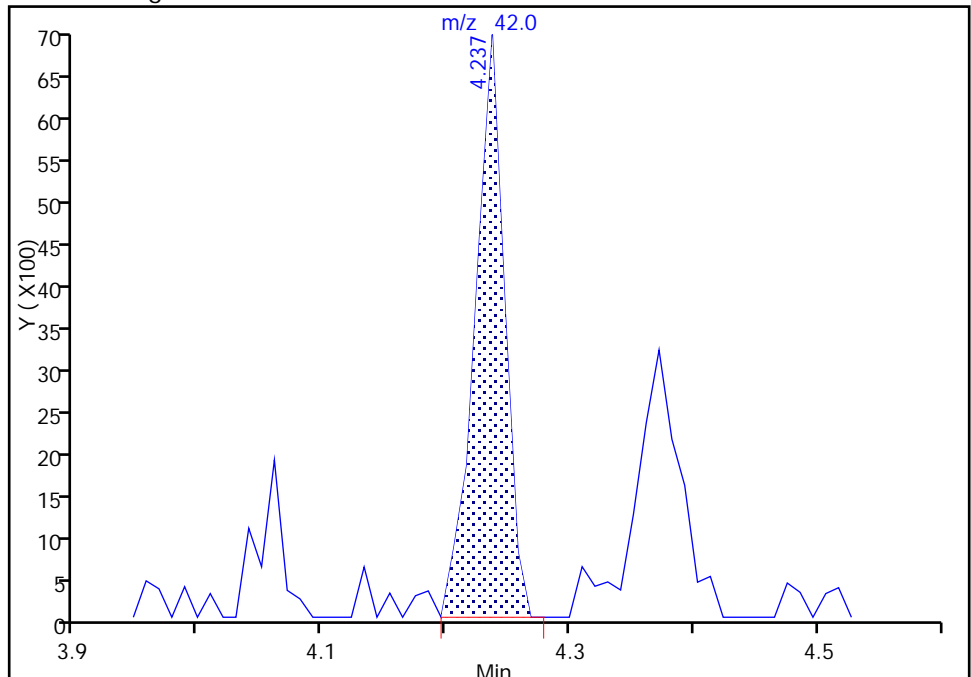
Not Detected
Expected RT: 4.23

Processing Integration Results



RT: 4.24
Area: 11630
Amount: 2.086376
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:22:46
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

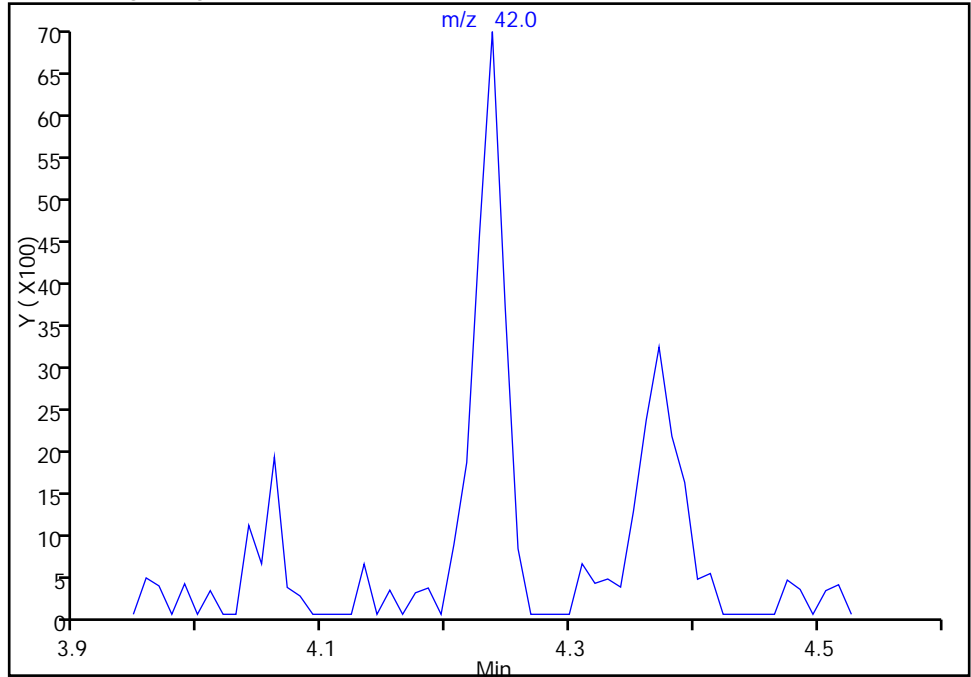
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

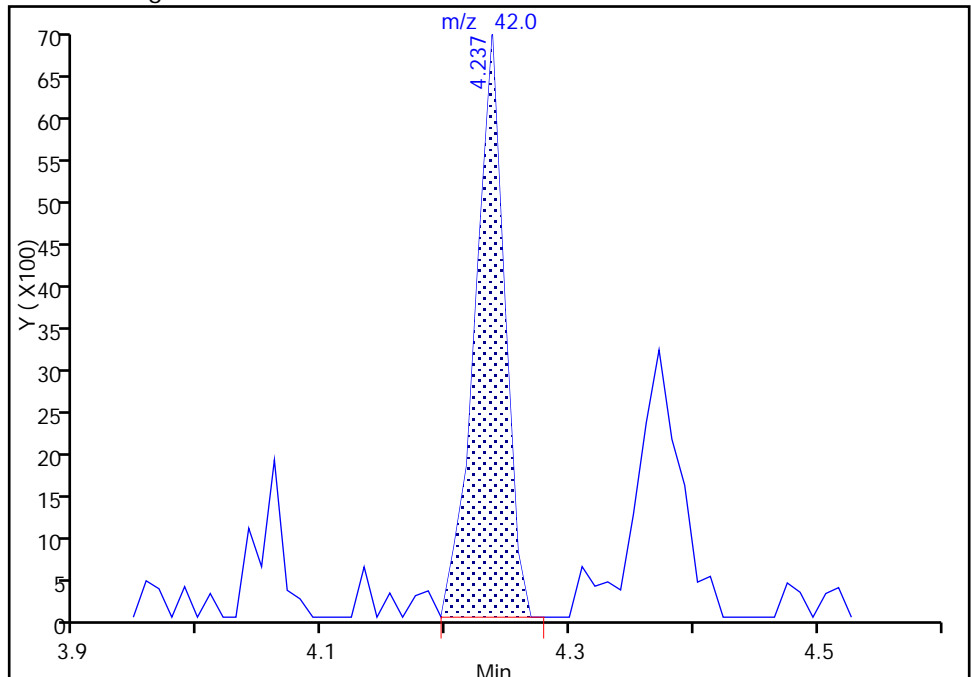
Signal: 1

Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results



RT: 4.24
Area: 11630
Amount: 2.086376
Amount Units: ug/L

TestAmerica Buffalo

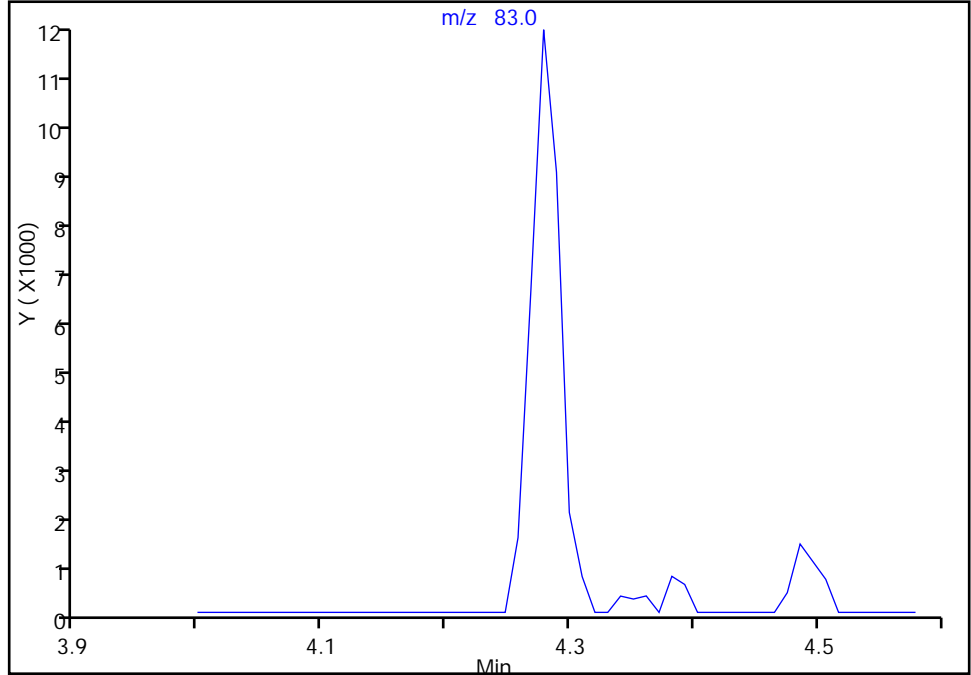
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

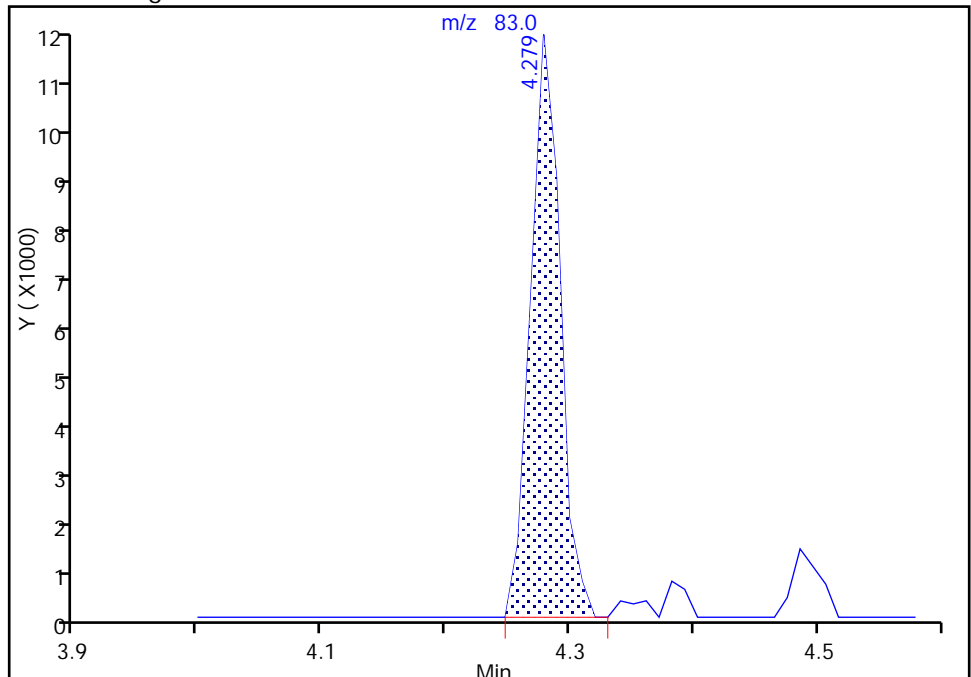
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 18636
Amount: 0.889359
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:22:56
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

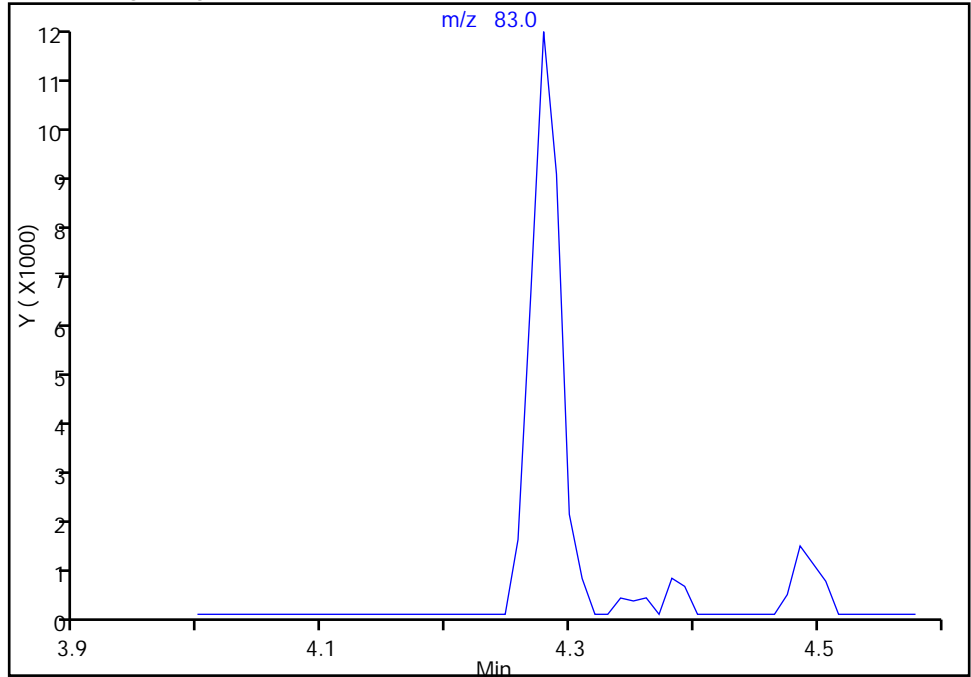
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

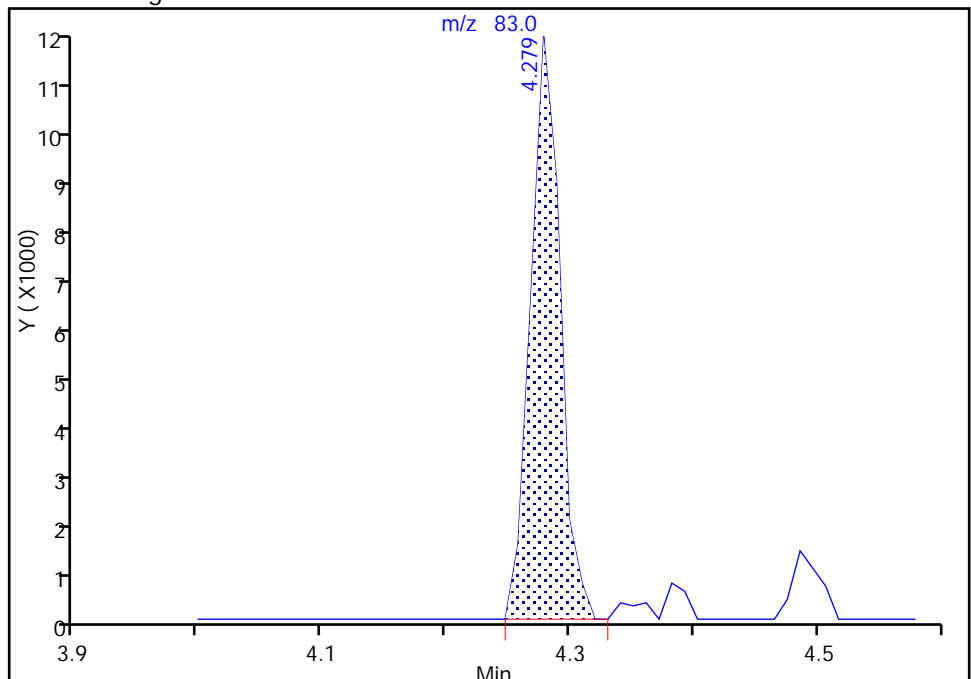
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 18636
Amount: 0.889359
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:23:00

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

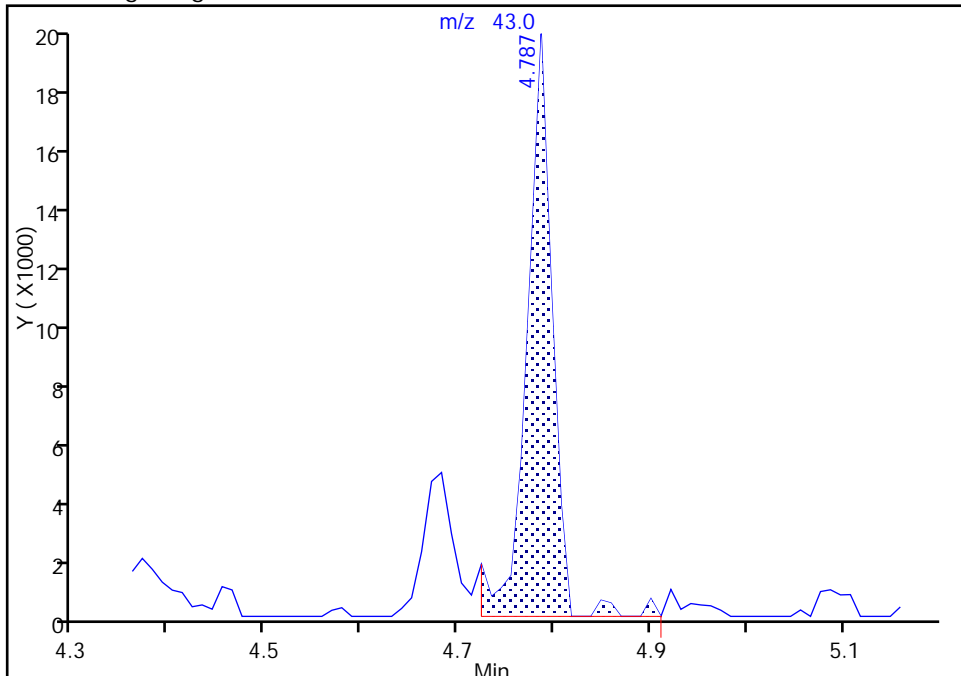
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

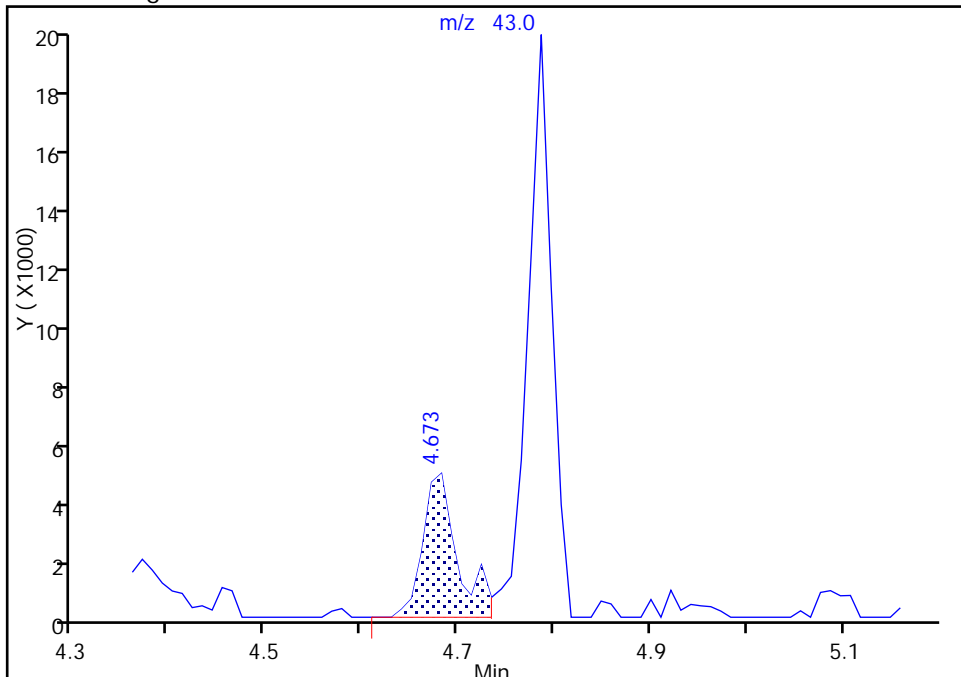
RT: 4.79
Area: 35527
Amount: 21.648837
Amount Units: ug/L

Processing Integration Results



RT: 4.67
Area: 11859
Amount: 22.277581
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:23:26
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

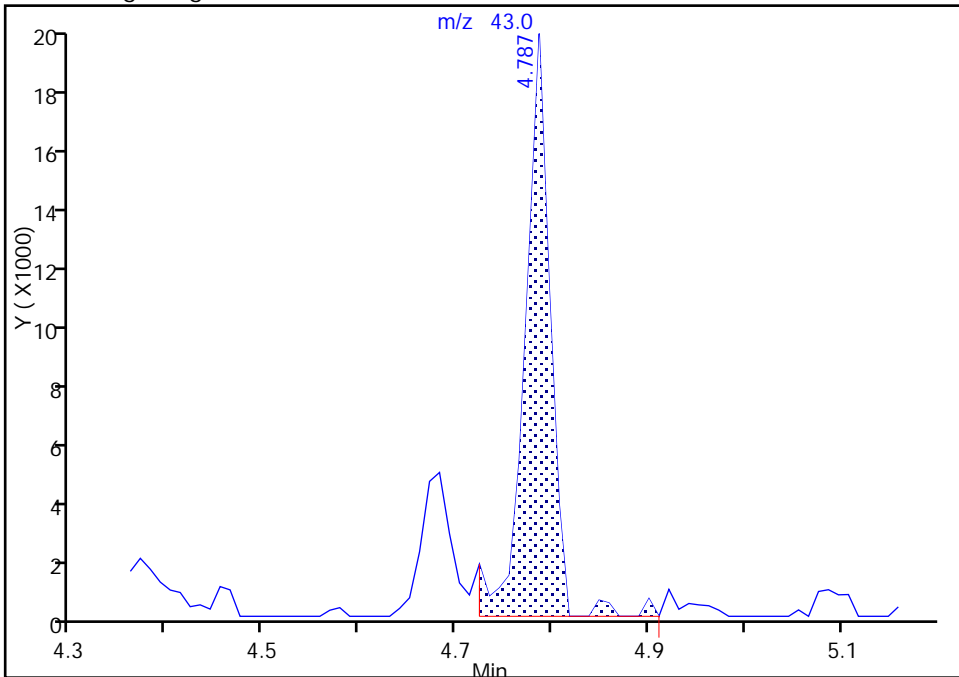
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

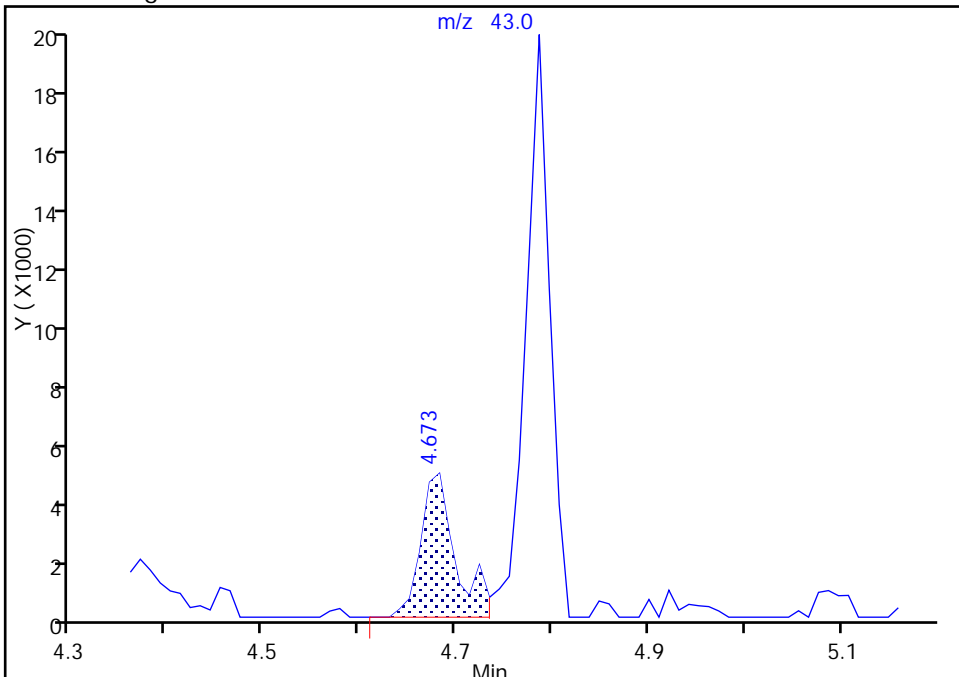
RT: 4.79
Area: 35527
Amount: 21.648837
Amount Units: ug/L

Processing Integration Results



RT: 4.67
Area: 11859
Amount: 22.277581
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

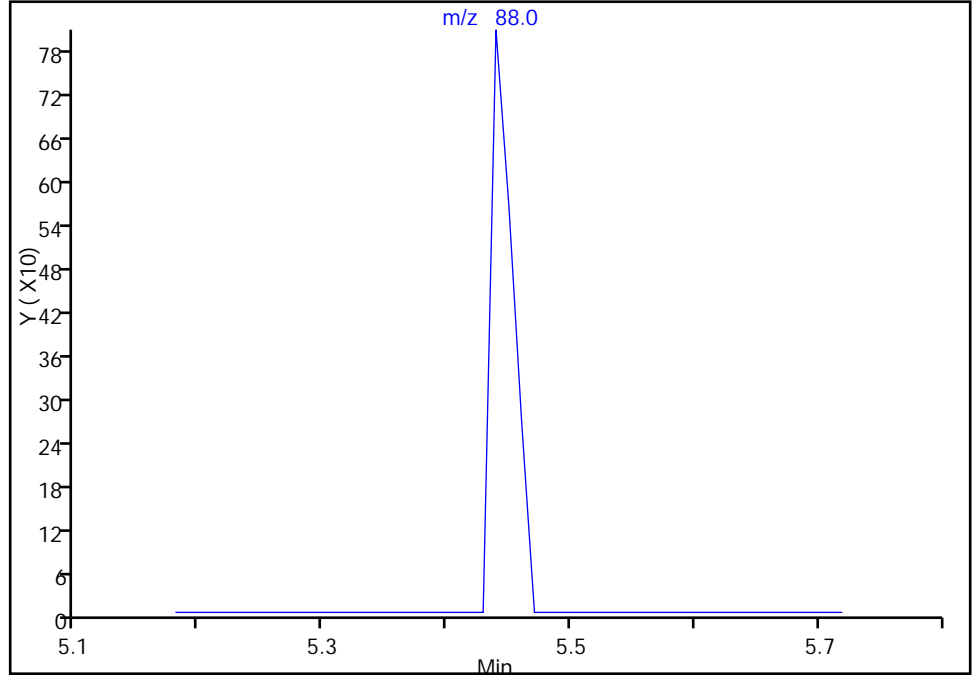
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

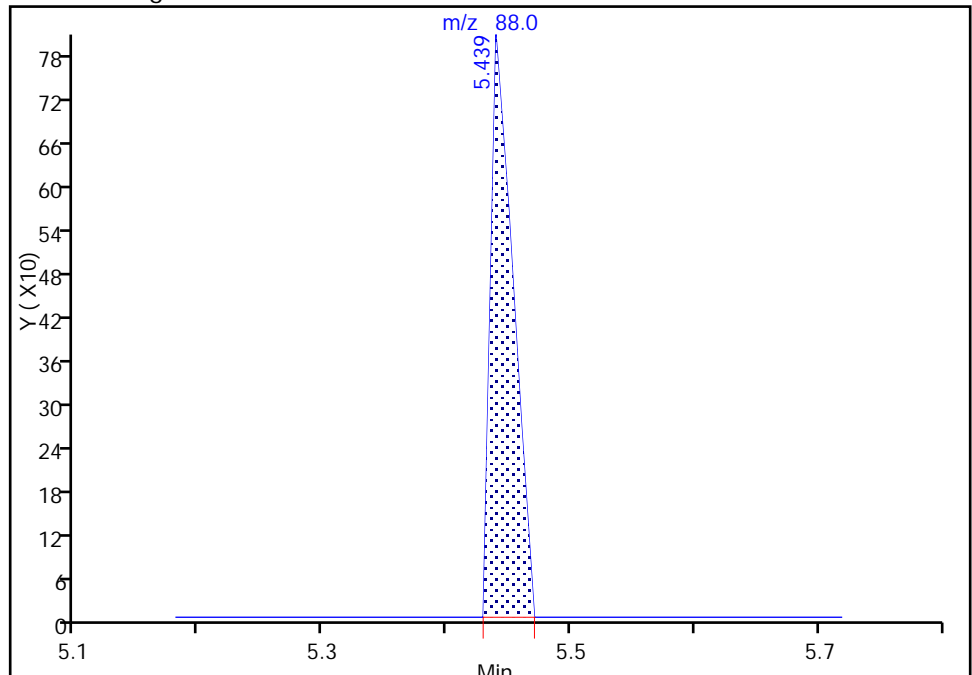
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.44
Area: 1011
Amount: 17.132227
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:23:32
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

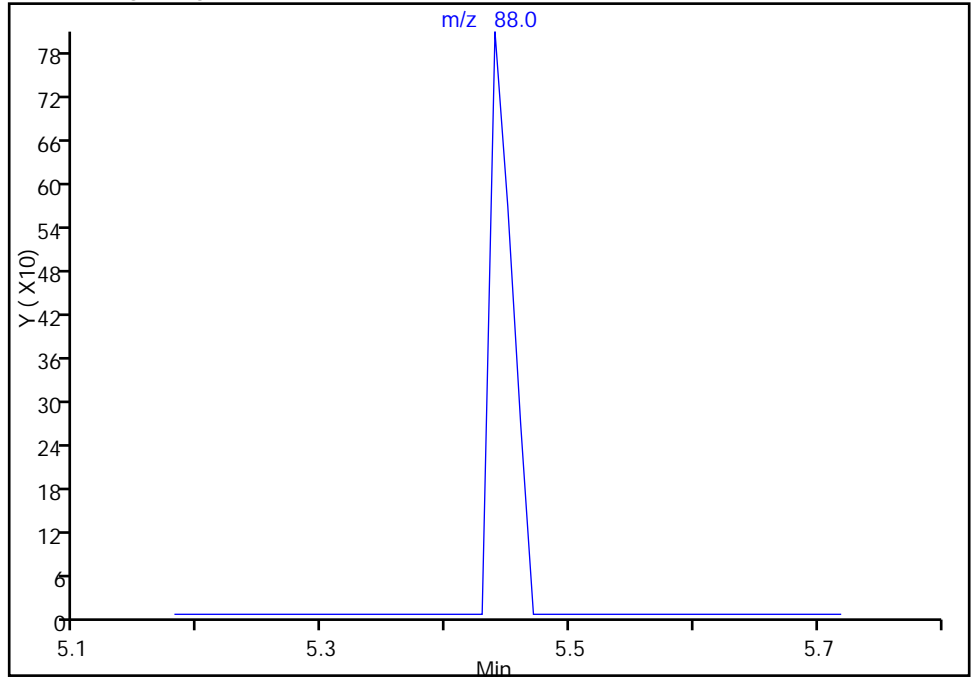
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

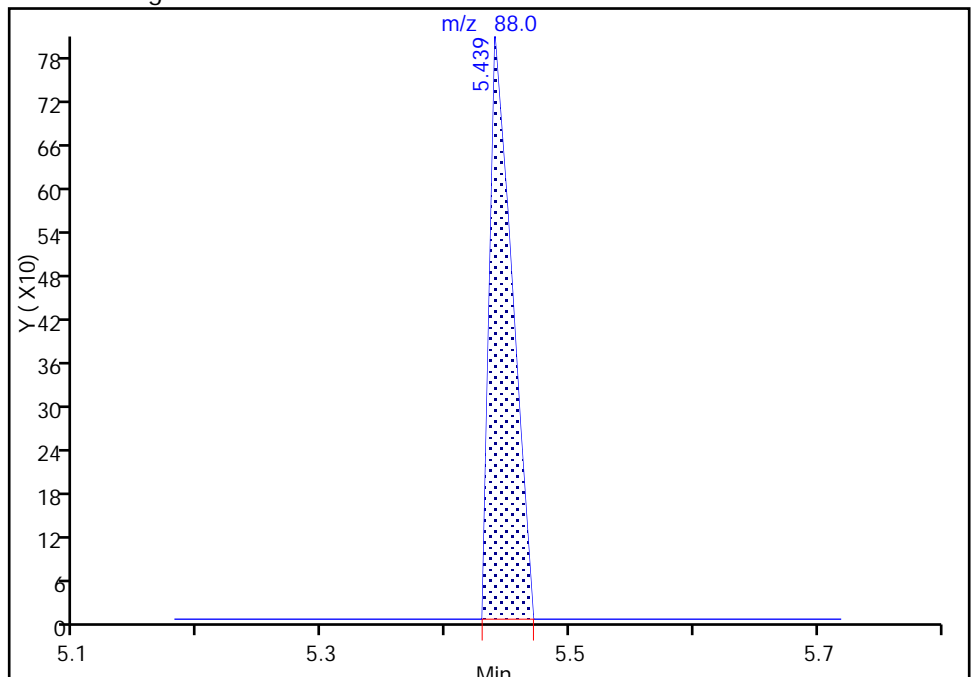
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.44
Area: 1011
Amount: 17.132227
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:23:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

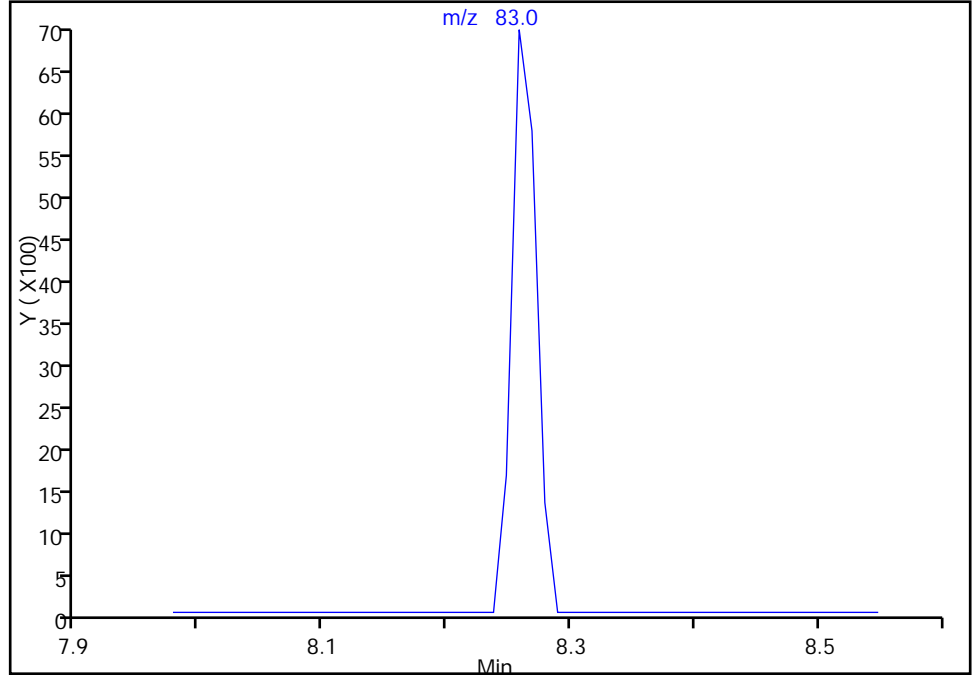
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

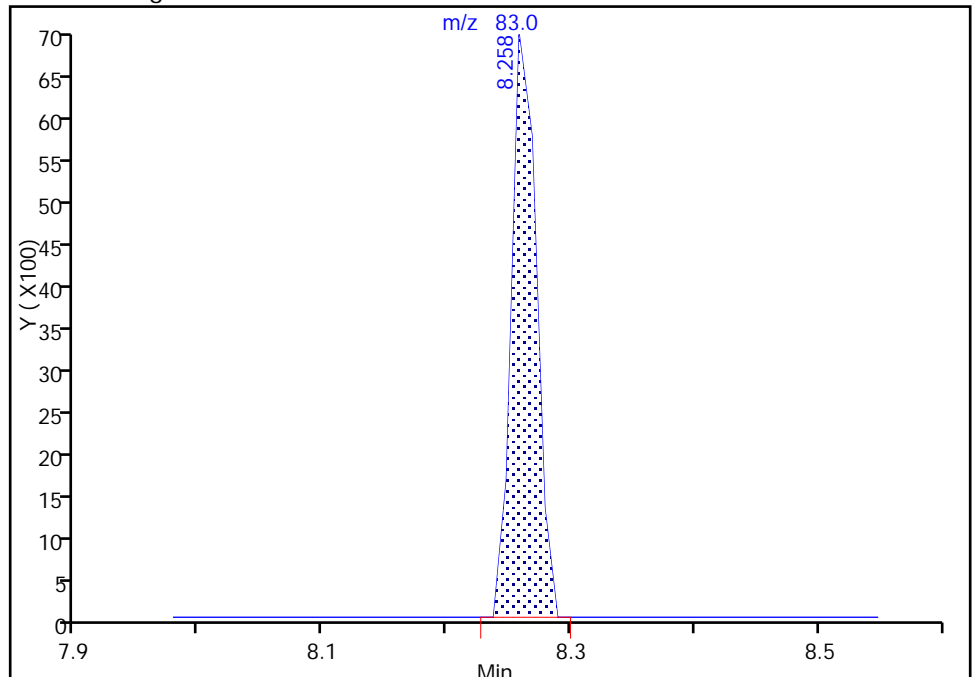
Not Detected
Expected RT: 8.26

Processing Integration Results



Manual Integration Results

RT: 8.26
Area: 9743
Amount: 0.898421
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:23:54
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

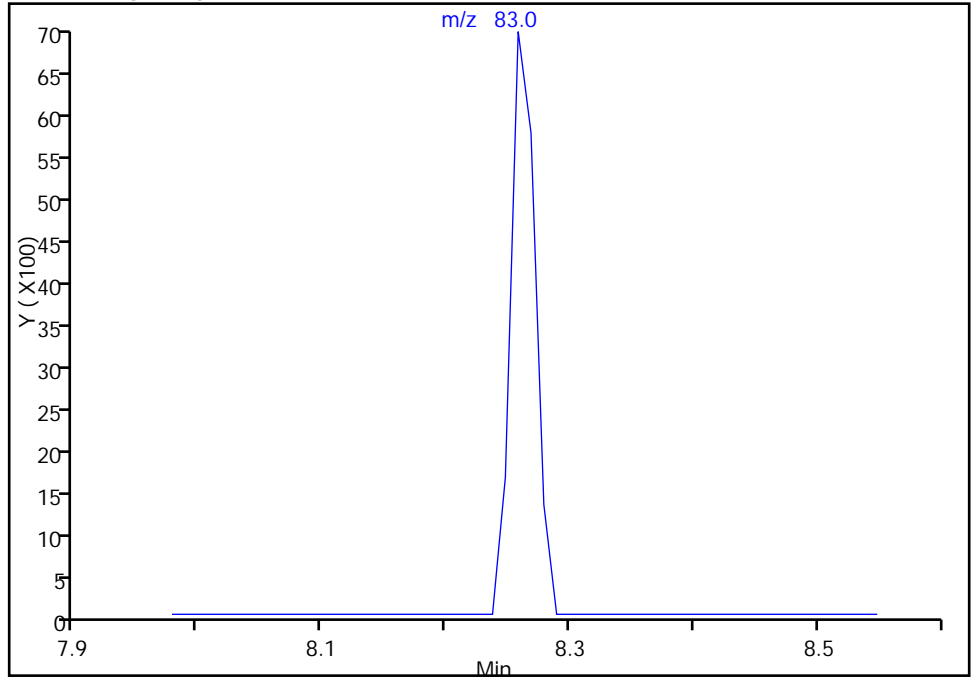
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Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

98 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

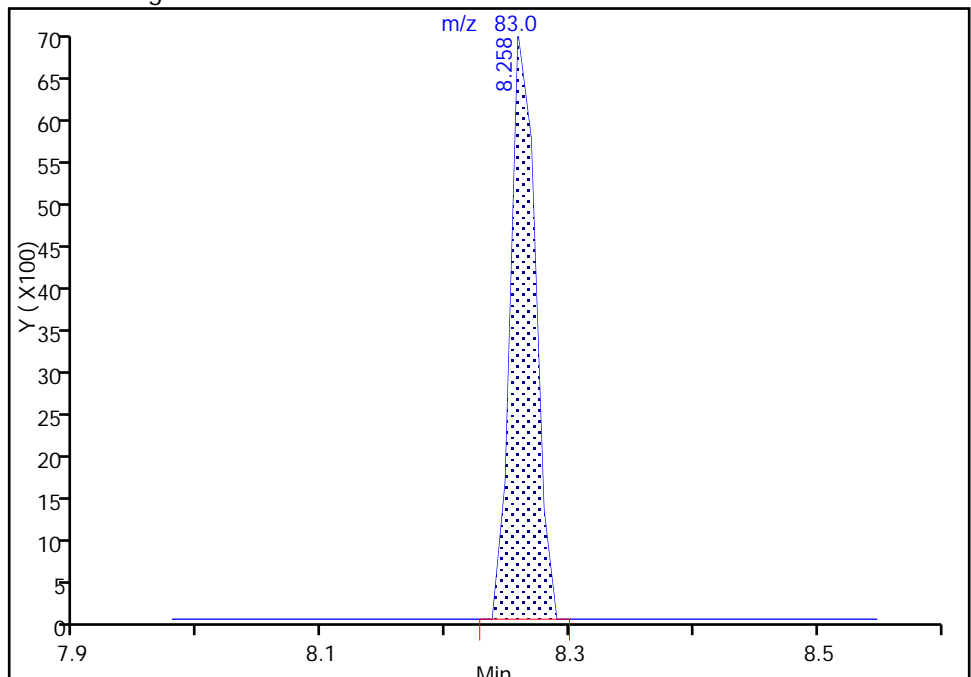
Not Detected
Expected RT: 8.26

Processing Integration Results



Manual Integration Results

RT: 8.26
Area: 9743
Amount: 0.898421
Amount Units: ug/L



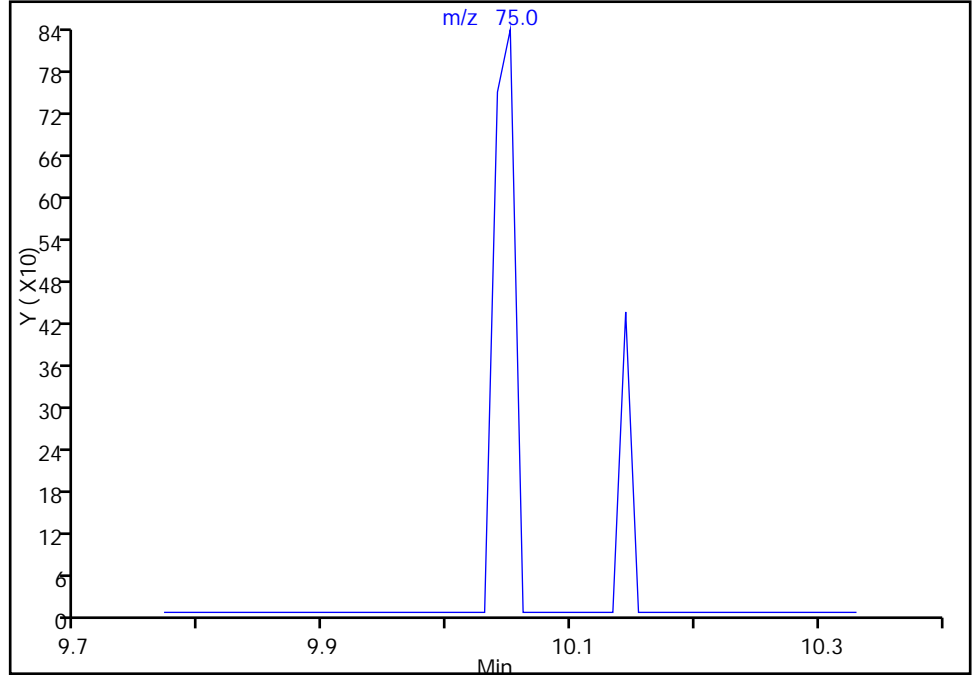
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

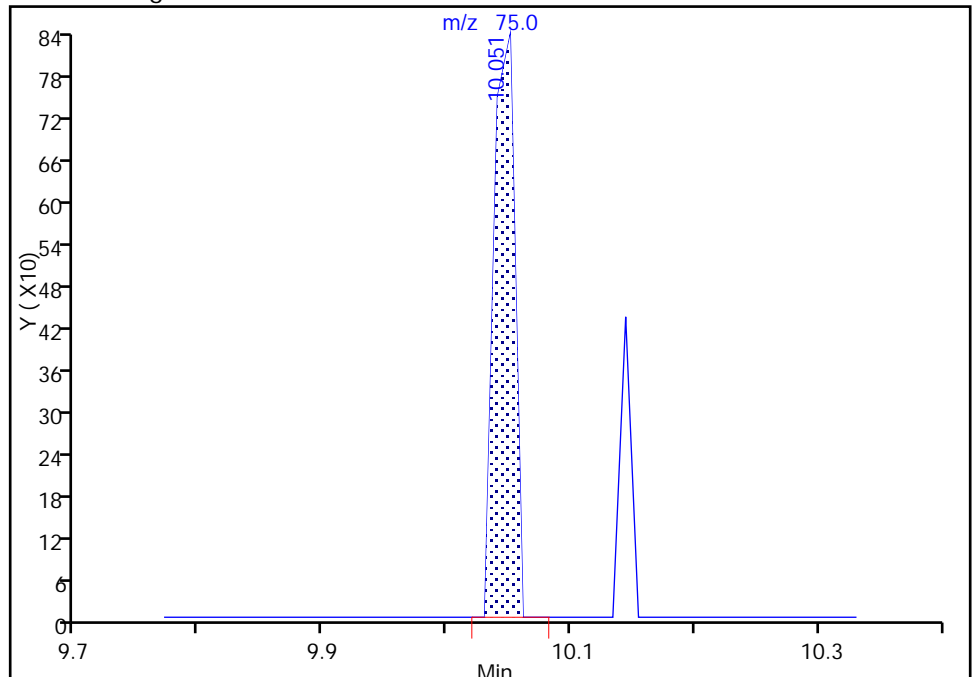
Not Detected
Expected RT: 10.05

Processing Integration Results



RT: 10.05
Area: 979
Amount: 1.302639
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:24:06
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

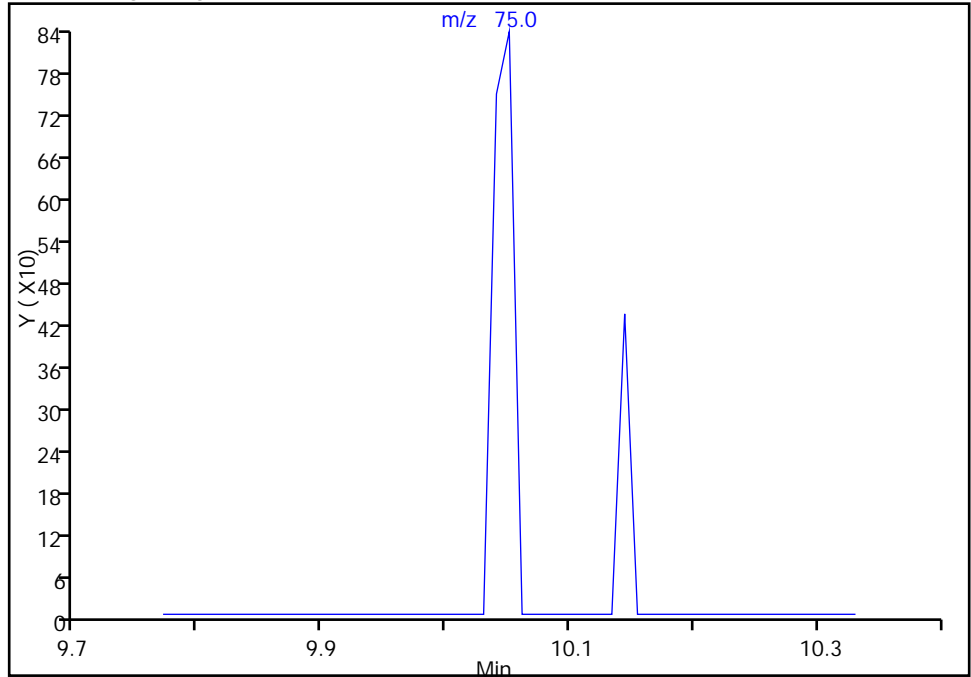
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0528.D
Injection Date: 19-Oct-2017 17:21:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

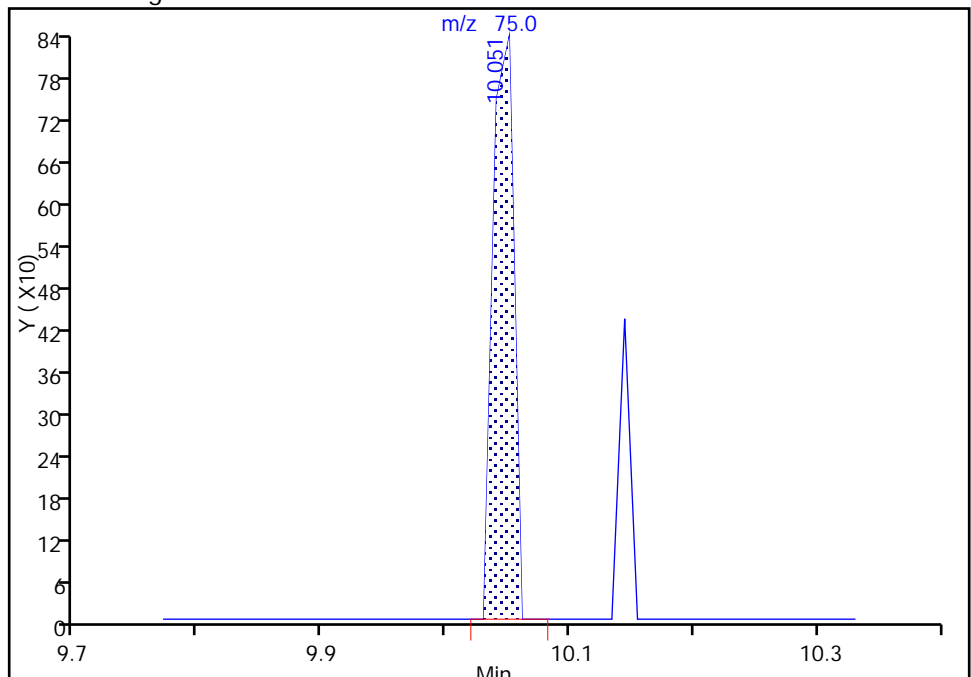
Not Detected
Expected RT: 10.05

Processing Integration Results



Manual Integration Results

RT: 10.05
Area: 979
Amount: 1.302639
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:24:08
Audit Action: Manually Integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0529.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Oct-2017 17:44:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 480-0066541-008
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:25:52 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler

Date: 20-Oct-2017 10:24:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.880	0.000	96	232088	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	94	740753	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	349102	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	90	247794	25.0	23.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	390234	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	966720	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	221240	25.0	23.8	
11 Dichlorodifluoromethane	85	1.253	1.242	0.011	96	28036	2.00	1.90	
13 Chloromethane	50	1.408	1.408	0.000	97	57585	2.00	1.67	
151 Butadiene	54	1.491	1.491	0.000	92	50942	2.00	1.85	
14 Vinyl chloride	62	1.501	1.491	0.010	53	34772	2.00	1.60	
15 Bromomethane	94	1.781	1.781	0.000	88	17463	2.00	1.90	
16 Chloroethane	64	1.833	1.833	0.000	70	15495	2.00	1.62	
18 Dichlorofluoromethane	67	2.071	2.061	0.010	94	39598	2.00	1.76	
17 Trichlorofluoromethane	101	2.071	2.071	0.000	59	31041	2.00	1.74	
19 Ethyl ether	59	2.310	2.299	0.011	93	28190	2.00	2.08	
21 Acrolein	56	2.486	2.486	0.000	97	33275	10.0	10.2	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	87	16888	2.00	1.75	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.010	43	17238	2.00	1.71	
23 Acetone	43	2.641	2.631	0.010	88	51916	10.0	11.1	
24 Iodomethane	142	2.672	2.662	0.010	92	32487	2.00	2.09	
25 Carbon disulfide	76	2.703	2.693	0.010	98	72542	2.00	1.94	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	90	69504	2.00	1.96	
28 Methyl acetate	43	2.900	2.890	0.010	96	61260	4.00	4.09	
30 Methylene Chloride	84	2.994	2.994	0.000	87	42132	2.00	2.08	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	63	18537	20.0	18.4	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	96	68856	2.00	2.11	
32 trans-1,2-Dichloroethene	96	3.190	3.191	-0.001	90	22445	2.00	1.97	
34 Acrylonitrile	53	3.253	3.242	0.011	97	135099	20.0	20.3	M
35 Hexane	57	3.346	3.346	0.000	95	55784	2.00	1.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	51918	2.00	1.92	
39 Vinyl acetate	43	3.595	3.595	0.000	97	156839	4.00	3.67	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	86	32307	2.00	1.86	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	73	27255	2.00	2.00	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	81735	10.0	10.3	
47 Chlorobromomethane	128	4.227	4.217	0.010	81	11742	2.00	2.11	
48 Tetrahydrofuran	42	4.237	4.227	0.010	85	23007	4.00	4.15	
50 Chloroform	83	4.289	4.279	0.010	93	40784	2.00	1.96	M
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	63	27309	2.00	1.62	
52 Cyclohexane	56	4.382	4.372	0.010	86	63996	2.00	1.87	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	82	28881	2.00	1.81	
53 Carbon tetrachloride	117	4.486	4.486	0.000	67	19877	2.00	1.61	
56 Isobutyl alcohol	43	4.662	4.652	0.010	20	23096	50.0	43.7	
55 Benzene	78	4.662	4.662	0.000	49	91056	2.00	1.96	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	95	46426	2.00	2.05	
59 n-Heptane	43	4.786	4.787	-0.001	93	72745	2.00	2.02	
60 Trichloroethene	95	5.139	5.139	0.000	90	22992	2.00	1.95	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	35779	2.00	1.80	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	93	32754	2.00	2.05	
66 1,4-Dioxane	88	5.450	5.439	0.011	1	2019	40.0	34.1	M
65 Dibromomethane	93	5.450	5.450	0.000	86	14904	2.00	1.97	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	28690	2.00	2.02	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	85	18540	2.00	2.02	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	84	31756	2.00	1.79	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	-0.001	97	170868	10.0	9.97	
73 Toluene	92	6.092	6.092	0.000	95	52534	2.00	1.89	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	95	29136	2.00	1.87	
77 Ethyl methacrylate	69	6.330	6.331	-0.001	85	26111	2.00	2.09	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	89	17686	2.00	2.15	
79 Tetrachloroethene	166	6.507	6.496	0.011	81	16501	2.00	1.70	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	92	35338	2.00	2.03	
81 2-Hexanone	43	6.621	6.621	0.000	98	104424	10.0	9.23	
82 Chlorodibromomethane	129	6.766	6.766	0.000	84	13411	2.00	1.76	
83 Ethylene Dibromide	107	6.849	6.849	0.000	99	16661	2.00	1.84	
86 Chlorobenzene	112	7.191	7.191	0.000	91	63097	2.00	2.05	
88 Ethylbenzene	91	7.253	7.253	0.000	98	101775	2.00	1.88	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	86	15895	2.00	1.89	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	34766	2.00	1.85	
91 o-Xylene	106	7.667	7.667	0.000	97	35484	2.00	1.89	
92 Styrene	104	7.688	7.688	0.000	93	62283	2.00	2.00	
93 Bromoform	173	7.885	7.885	0.000	63	6607	2.00	2.00	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	83635	2.00	1.78	
97 Bromobenzene	156	8.227	8.227	0.000	94	21875	2.00	2.04	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	93	20083	2.00	1.79	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	118108	2.00	1.85	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	85	5961	2.00	1.82	
101 trans-1,4-Dichloro-2-buten	53	8.289	8.300	-0.011	69	7822	2.00	1.59	
105 2-Chlorotoluene	126	8.372	8.372	0.000	93	19069	2.00	1.71	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	93	78483	2.00	1.89	
102 4-Chlorotoluene	91	8.455	8.455	0.000	97	73747	2.00	1.83	
106 tert-Butylbenzene	134	8.673	8.683	-0.010	89	13442	2.00	1.60	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	75989	2.00	1.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	97	93924	2.00	1.81	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	80169	2.00	1.90	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	90	42451	2.00	1.87	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	87	48107	2.00	2.08	
115 n-Butylbenzene	91	9.315	9.315	0.000	97	81922	2.00	1.78	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	88	41875	2.00	1.87	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.051	-0.011	6	2868	2.00	2.18	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	88	24585	2.00	1.77	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	87	12236	2.00	2.13	
121 Naphthalene	128	10.901	10.901	0.000	98	63106	2.00	1.86	
122 1,2,3-Trichlorobenzene	180	11.097	11.098	-0.001	89	27571	2.00	2.07	
S 126 Xylenes, Total	1				0			3.74	
S 123 1,3-Dichloropropene, Total	1				0			3.66	
S 124 1,2-Dichloroethene, Total	1				0			3.97	
S 125 Total BTEX	1				0			9.47	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00246	Amount Added: 2.00	Units: uL	
8260 CORP mix_00113	Amount Added: 2.00	Units: uL	
T_8260_IS_00175	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00158	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0529.D

Injection Date: 19-Oct-2017 17:44:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 2

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

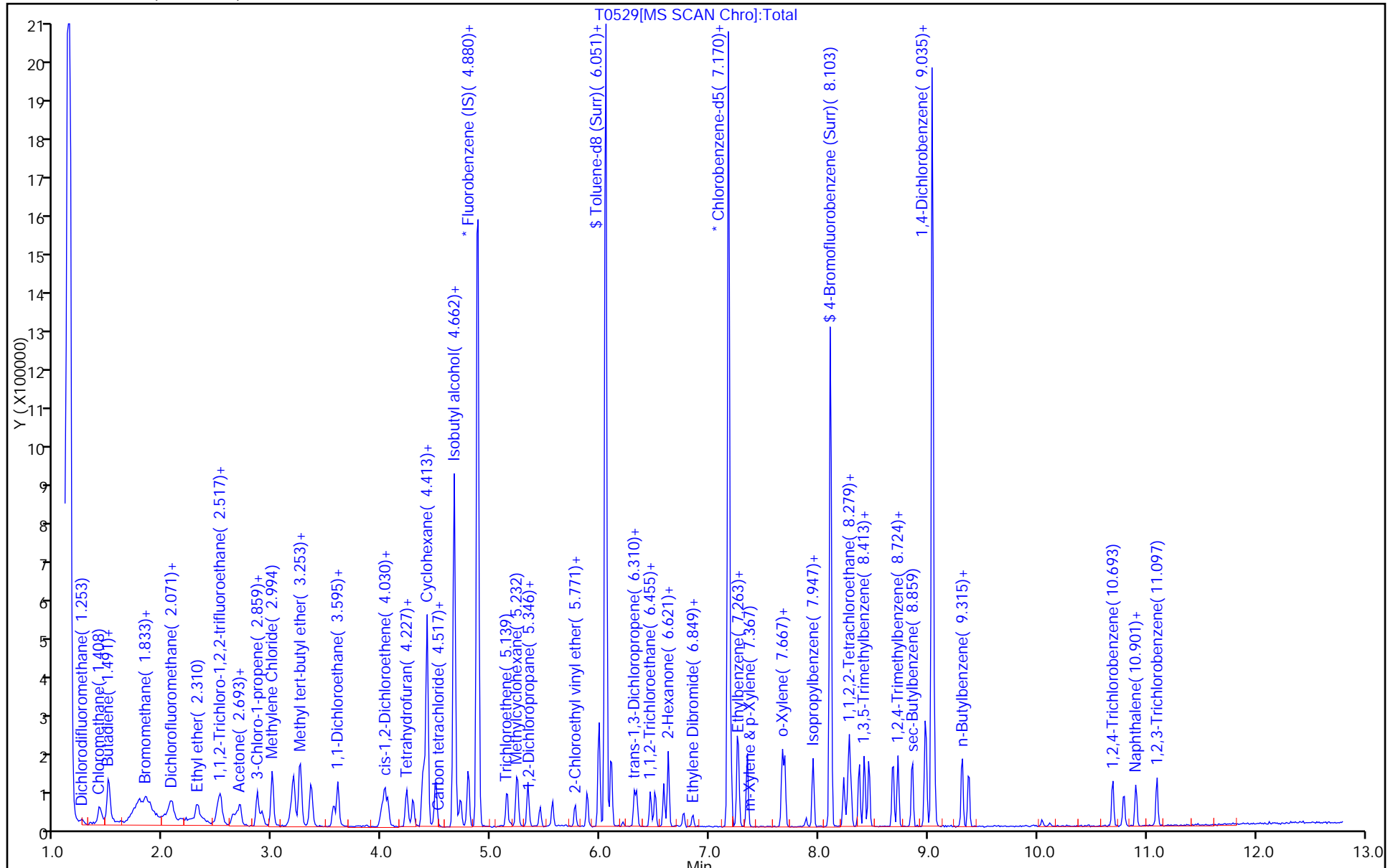
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

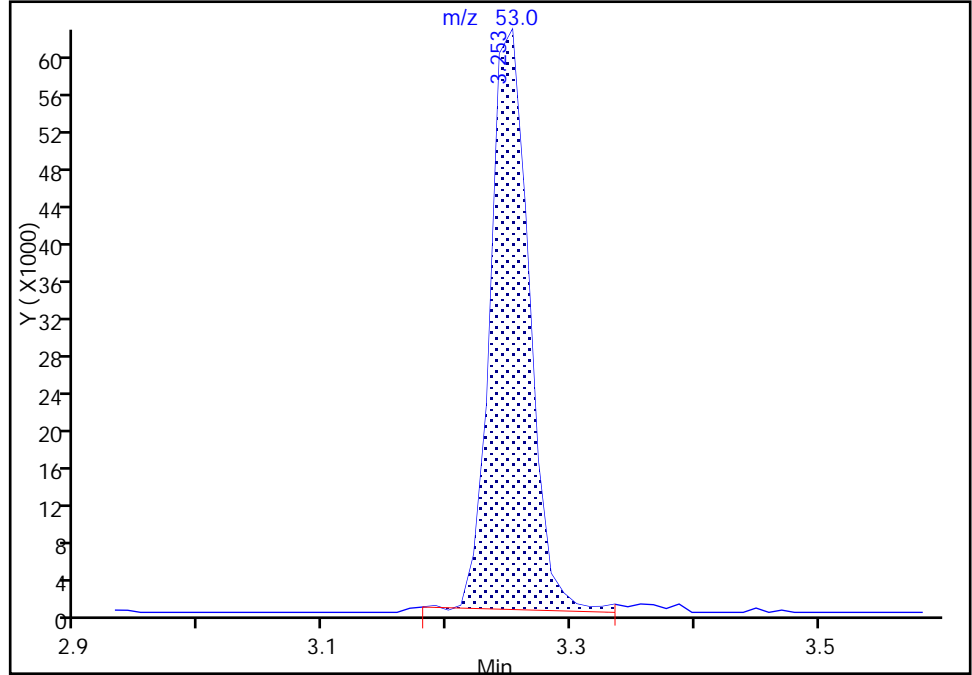
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0529.D
Injection Date: 19-Oct-2017 17:44:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

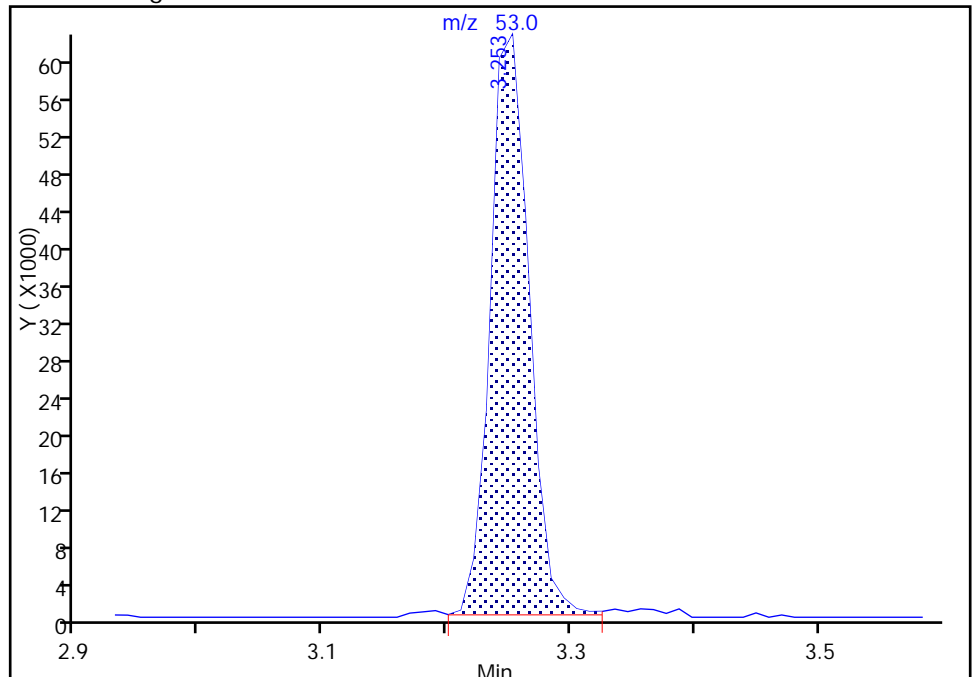
RT: 3.25
Area: 135659
Amount: 20.302313
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 135099
Amount: 20.285623
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 12:28:47
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

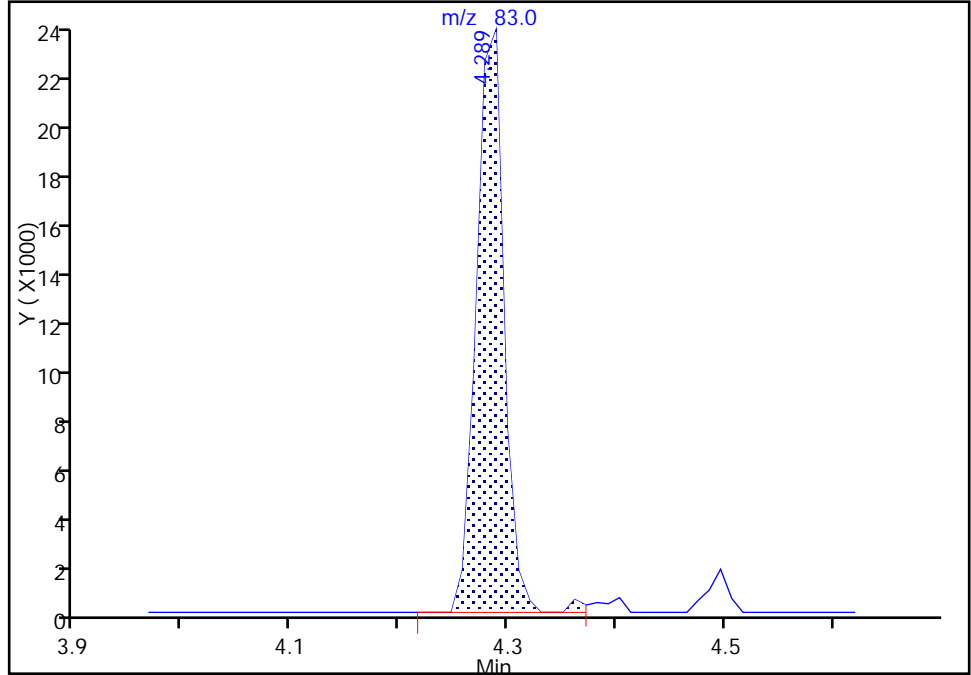
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0529.D
Injection Date: 19-Oct-2017 17:44:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

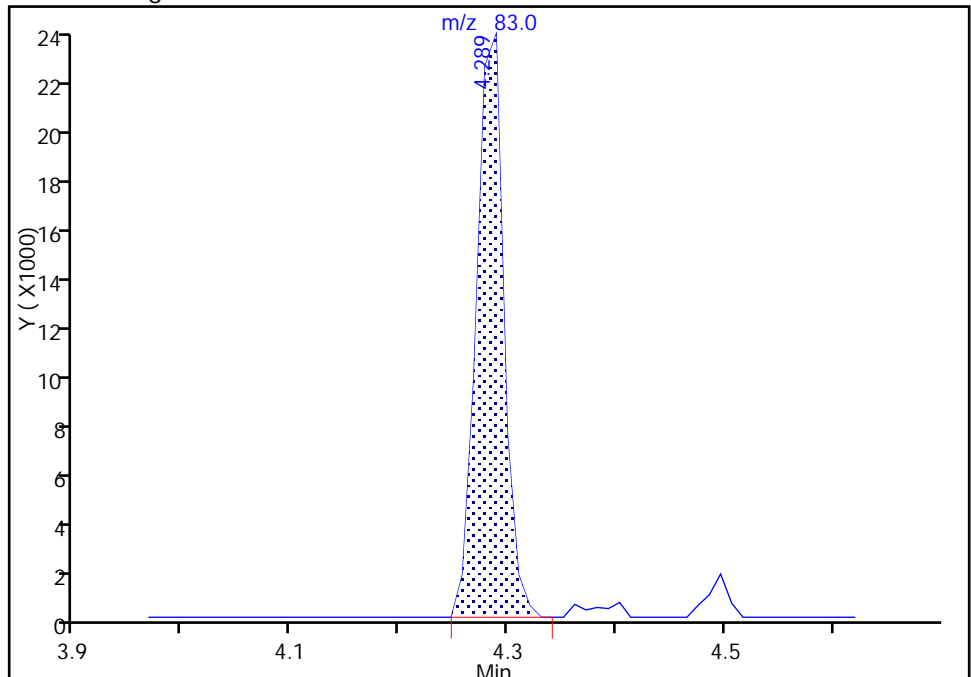
RT: 4.29
Area: 41284
Amount: 1.898295
Amount Units: ug/L

Processing Integration Results



RT: 4.29
Area: 40784
Amount: 1.959126
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 10:25:30
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

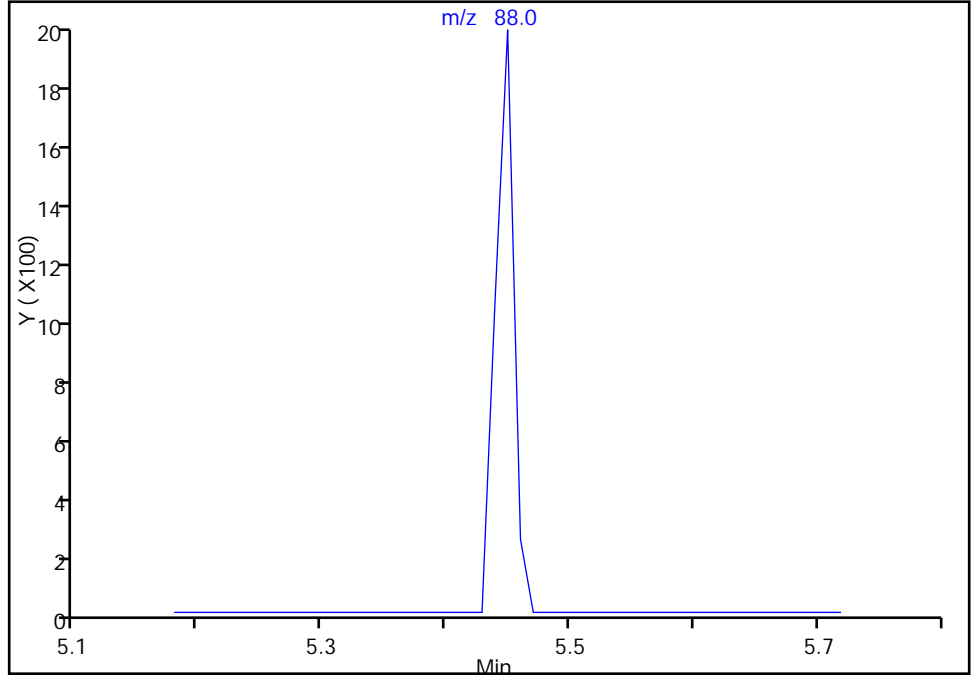
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0529.D
Injection Date: 19-Oct-2017 17:44:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

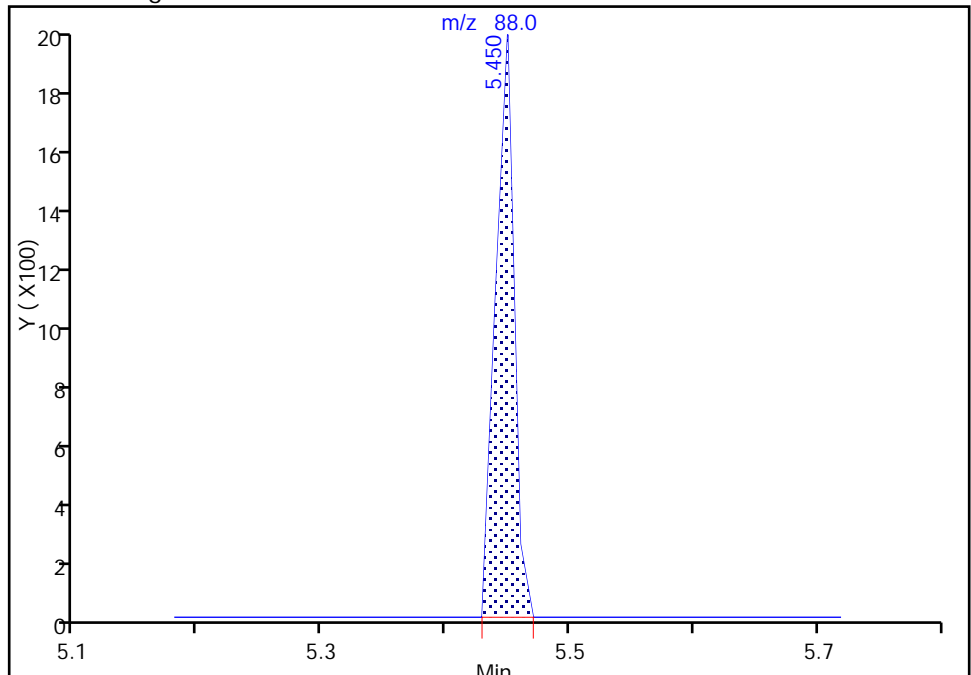
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 2019
Amount: 34.132465
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:25:43
Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

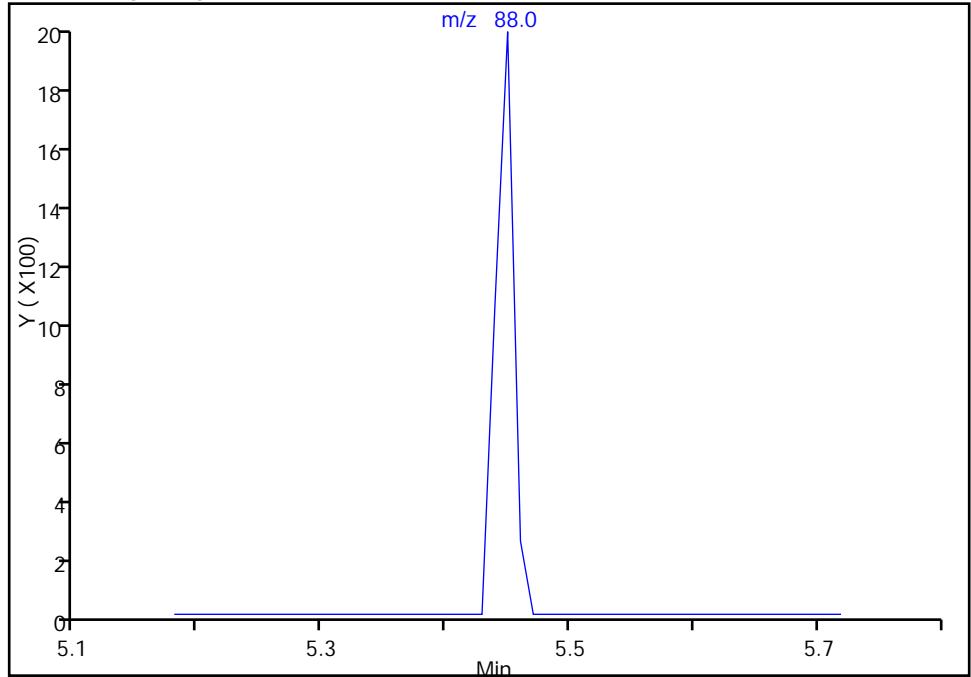
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0529.D
Injection Date: 19-Oct-2017 17:44:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

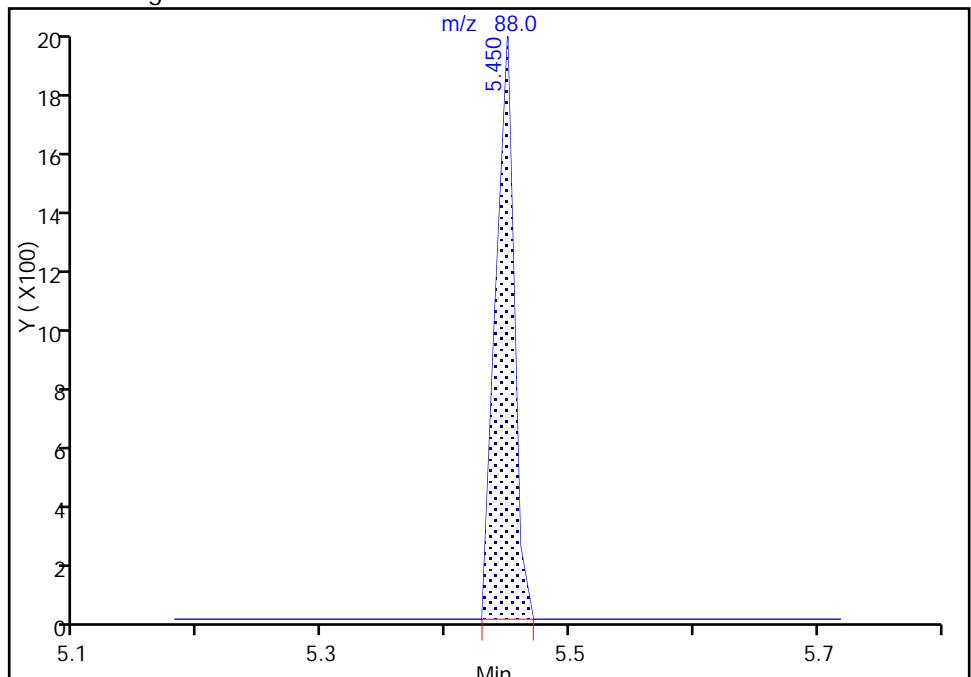
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 2019
Amount: 34.132465
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 10:25:46

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0530.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Oct-2017 18:08:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 3
 Misc. Info.: 480-0066541-009
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:25:55 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler

Date: 20-Oct-2017 12:27:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.880	-0.011	97	227547	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	753452	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	342622	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	259310	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	404041	25.0	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	97	971702	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	78	231765	25.0	24.5	
11 Dichlorodifluoromethane	85	1.242	1.242	0.000	97	82823	5.00	5.72	
13 Chloromethane	50	1.408	1.408	0.000	99	171001	5.00	5.07	
14 Vinyl chloride	62	1.501	1.491	0.010	72	106914	5.00	5.03	
151 Butadiene	54	1.491	1.491	0.000	93	147151	5.00	5.45	
15 Bromomethane	94	1.781	1.781	0.000	92	43330	5.00	4.80	
16 Chloroethane	64	1.843	1.833	0.010	94	46647	5.00	4.97	
18 Dichlorofluoromethane	67	2.071	2.061	0.010	96	113709	5.00	5.16	
17 Trichlorofluoromethane	101	2.082	2.071	0.011	94	93932	5.00	5.36	
19 Ethyl ether	59	2.310	2.299	0.011	91	71389	5.00	5.38	
21 Acrolein	56	2.486	2.486	0.000	99	87695	25.0	27.3	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	88	53605	5.00	5.66	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.010	94	55284	5.00	5.59	
23 Acetone	43	2.631	2.631	0.000	97	117807	25.0	25.7	
24 Iodomethane	142	2.672	2.662	0.010	97	82790	5.00	5.43	
25 Carbon disulfide	76	2.693	2.693	0.000	99	200249	5.00	5.46	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	88	184536	5.00	5.32	
28 Methyl acetate	43	2.900	2.890	0.010	99	151280	10.0	10.3	
30 Methylene Chloride	84	2.994	2.994	0.000	88	74896	5.00	4.82	
31 2-Methyl-2-propanol	59	3.159	3.149	0.010	43	52142	50.0	52.9	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	88	165867	5.00	5.19	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	88	58012	5.00	5.19	
34 Acrylonitrile	53	3.253	3.242	0.011	97	347178	50.0	53.2	
35 Hexane	57	3.346	3.346	0.000	96	153122	5.00	5.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	95	144458	5.00	5.44	
39 Vinyl acetate	43	3.595	3.595	0.000	96	422398	10.0	10.1	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	91	91046	5.00	5.34	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	72	73714	5.00	5.51	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	197515	25.0	25.3	
47 Chlorobromomethane	128	4.227	4.217	0.010	81	29242	5.00	5.36	
48 Tetrahydrofuran	42	4.237	4.227	0.010	92	56905	10.0	10.5	
50 Chloroform	83	4.289	4.279	0.010	94	109010	5.00	5.34	
52 Cyclohexane	56	4.382	4.372	0.010	93	183471	5.00	5.47	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	68	87628	5.00	5.31	
53 Carbon tetrachloride	117	4.486	4.486	0.000	90	61433	5.00	5.06	
54 1,1-Dichloropropene	75	4.496	4.486	0.010	83	84069	5.00	5.38	
56 Isobutyl alcohol	43	4.662	4.652	0.010	30	68057	125.0	131.3	
55 Benzene	78	4.662	4.662	0.000	67	233225	5.00	5.11	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	117895	5.00	5.30	
59 n-Heptane	43	4.786	4.787	-0.001	95	194217	5.00	5.50	
60 Trichloroethene	95	5.139	5.139	0.000	90	59603	5.00	5.17	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	108430	5.00	5.58	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	91	83853	5.00	5.36	
66 1,4-Dioxane	88	5.450	5.439	0.011	1	6293	100.0	104.6	M
65 Dibromomethane	93	5.450	5.450	0.000	87	42102	5.00	5.68	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	67097	5.00	4.81	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	86	47509	5.00	5.29	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	84	90011	5.00	5.17	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	443606	25.0	25.4	
73 Toluene	92	6.103	6.092	0.011	95	144717	5.00	5.11	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	79895	5.00	5.05	
77 Ethyl methacrylate	69	6.331	6.331	0.000	89	64084	5.00	5.03	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	92	39661	5.00	4.74	M
79 Tetrachloroethene	166	6.496	6.496	0.000	90	55583	5.00	5.62	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	94	94650	5.00	5.35	
81 2-Hexanone	43	6.621	6.621	0.000	98	290396	25.0	25.2	
82 Chlorodibromomethane	129	6.766	6.766	0.000	85	40005	5.00	5.17	
83 Ethylene Dibromide	107	6.849	6.849	0.000	98	46427	5.00	5.05	
86 Chlorobenzene	112	7.191	7.191	0.000	92	163283	5.00	5.21	
88 Ethylbenzene	91	7.253	7.253	0.000	98	295216	5.00	5.37	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	85	43212	5.00	5.04	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	100330	5.00	5.25	
91 o-Xylene	106	7.667	7.667	0.000	98	95321	5.00	5.00	
92 Styrene	104	7.688	7.688	0.000	92	161227	5.00	5.08	
93 Bromoform	173	7.885	7.885	0.000	87	17085	5.00	5.08	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	247692	5.00	5.36	
97 Bromobenzene	156	8.227	8.227	0.000	91	57502	5.00	5.47	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	95	57988	5.00	5.26	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	344765	5.00	5.50	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	91	17384	5.00	5.40	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.300	-0.001	69	21861	5.00	4.53	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	57989	5.00	5.29	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	95	207600	5.00	5.09	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	209829	5.00	5.30	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	43610	5.00	5.29	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	229633	5.00	5.38	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	280637	5.00	5.52	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	96	231182	5.00	5.58	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	94	123166	5.00	5.51	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	93	123411	5.00	5.43	
115 n-Butylbenzene	91	9.315	9.315	0.000	98	238757	5.00	5.28	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	91	123354	5.00	5.61	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.051	-0.011	61	7721	5.00	4.53	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	91	68701	5.00	5.03	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	82	28548	5.00	5.06	
121 Naphthalene	128	10.901	10.901	0.000	97	171430	5.00	5.16	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	91	67794	5.00	5.19	
S 124 1,2-Dichloroethene, Total	1				0			10.7	
S 125 Total BTEX	1				0			25.8	
S 126 Xylenes, Total	1				0			10.2	
S 123 1,3-Dichloropropene, Total	1				0			10.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113

Amount Added: 5.00

Units: uL

GAS CORP mix_00246

Amount Added: 5.00

Units: uL

T_8260_IS_00175

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00158

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0530.D

Injection Date: 19-Oct-2017 18:08:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 3

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

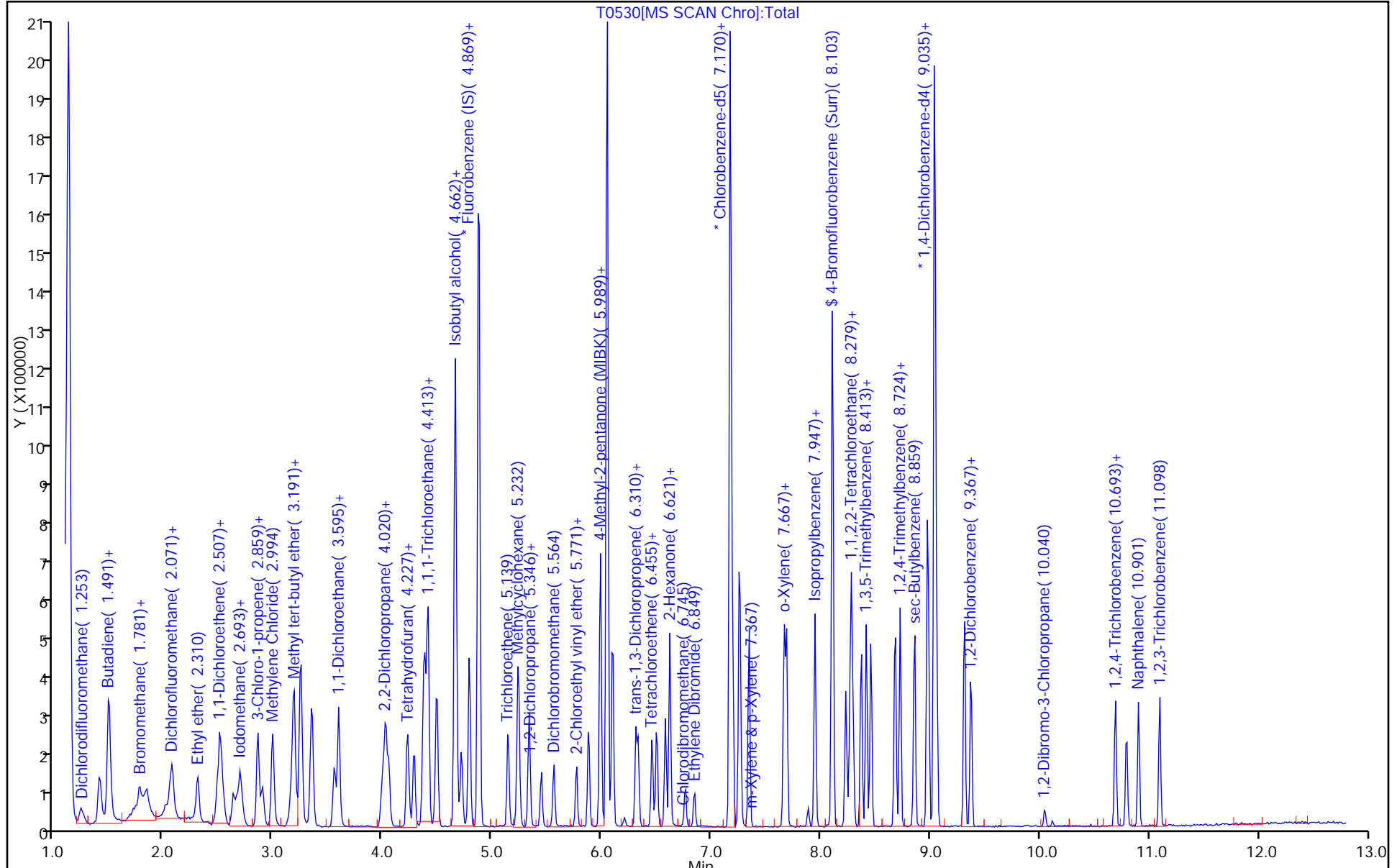
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

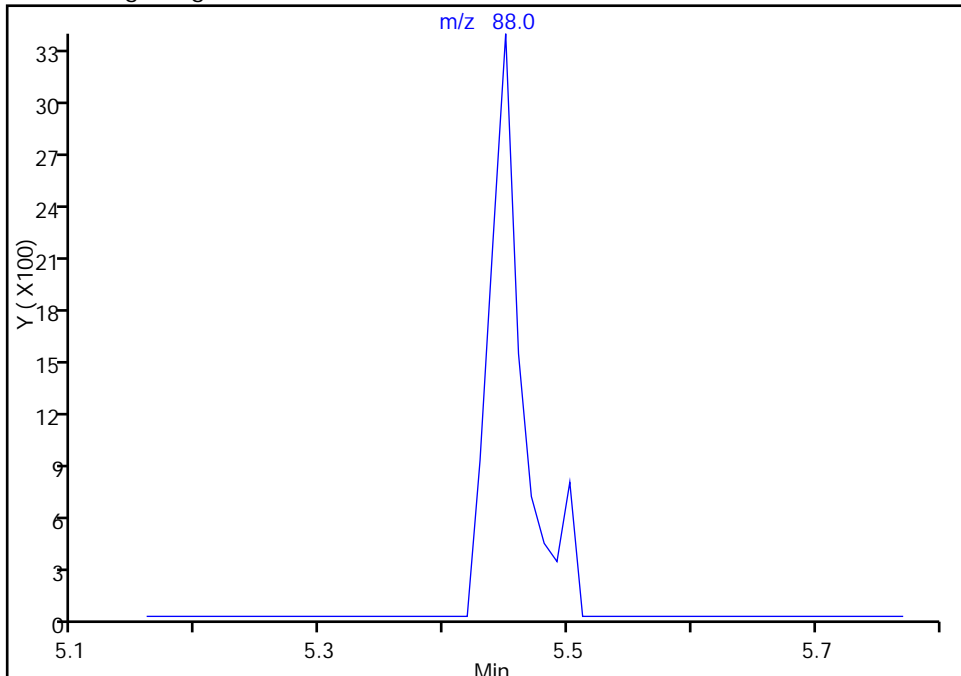
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0530.D
Injection Date: 19-Oct-2017 18:08:30 Instrument ID: HP5975T
Lims ID: IC 3
Client ID:
Operator ID: RR ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

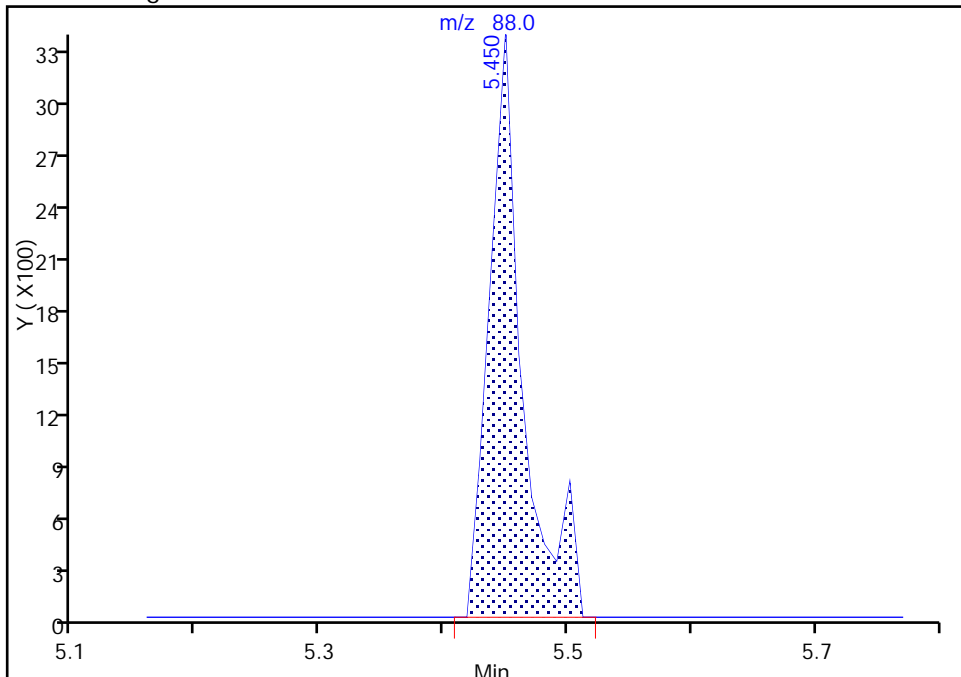
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 6293
Amount: 104.5940
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 12:26:06
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

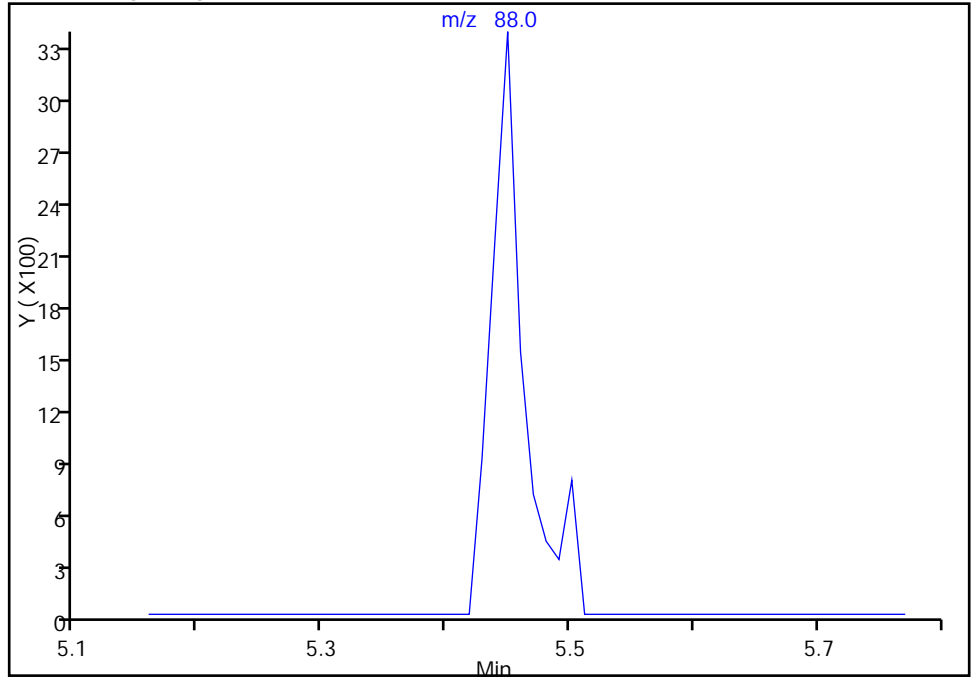
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0530.D
Injection Date: 19-Oct-2017 18:08:30 Instrument ID: HP5975T
Lims ID: IC 3
Client ID:
Operator ID: RR ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

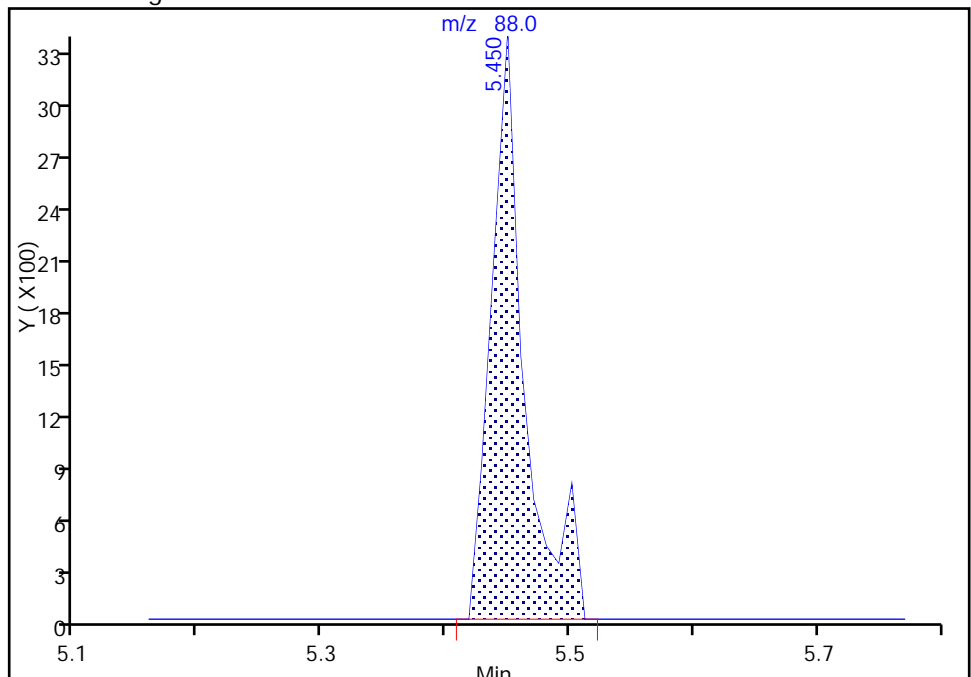
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 6293
Amount: 104.5940
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 12:26:09

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

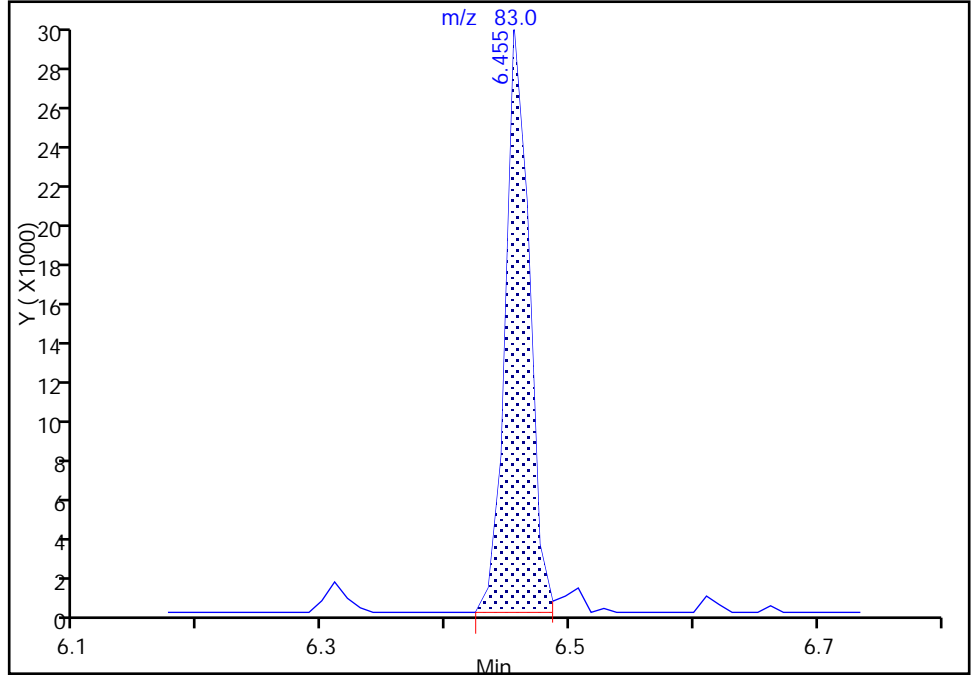
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0530.D
Injection Date: 19-Oct-2017 18:08:30 Instrument ID: HP5975T
Lims ID: IC 3
Client ID:
Operator ID: RR ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

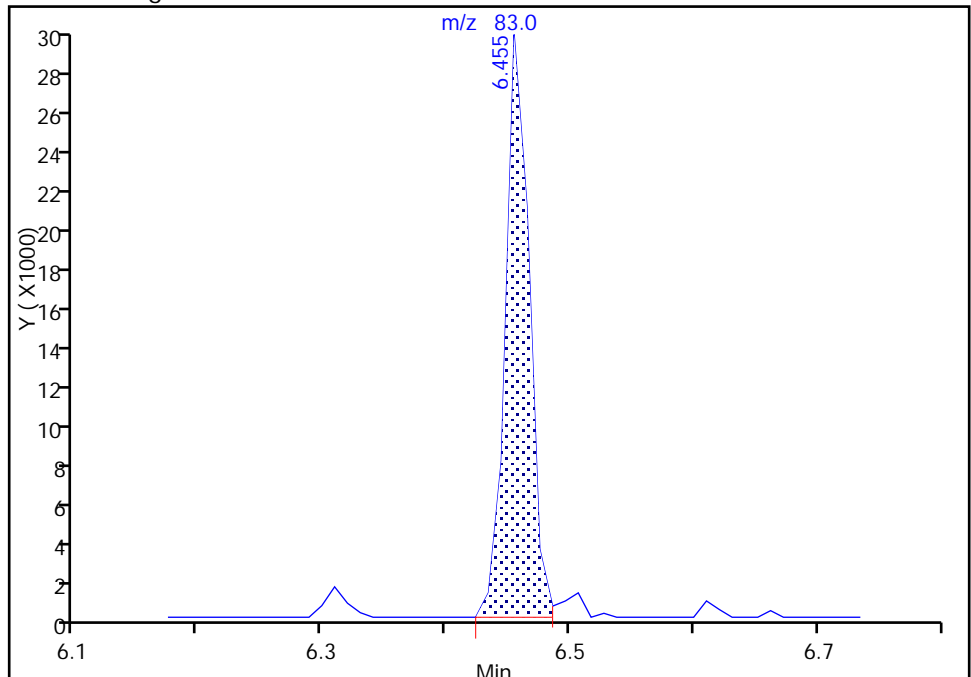
RT: 6.45
Area: 39661
Amount: 4.600439
Amount Units: ug/L

Processing Integration Results



RT: 6.45
Area: 39661
Amount: 4.738063
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 13:06:19
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0531.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Oct-2017 18:31:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 4
 Misc. Info.: 480-0066541-010
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:25:58 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler

Date: 20-Oct-2017 12:28:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.880	-0.011	96	232379	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	94	743708	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	358883	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	254858	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	392164	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	958699	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	230149	25.0	24.7	
11 Dichlorodifluoromethane	85	1.232	1.242	-0.010	98	154556	10.0	10.5	
13 Chloromethane	50	1.408	1.408	0.000	99	357244	10.0	10.4	
151 Butadiene	54	1.491	1.491	0.000	93	271603	10.0	9.86	
14 Vinyl chloride	62	1.491	1.491	0.000	73	221516	10.0	10.2	
15 Bromomethane	94	1.771	1.781	-0.010	91	92885	10.0	10.1	
16 Chloroethane	64	1.833	1.833	0.000	94	98321	10.0	10.2	
18 Dichlorofluoromethane	67	2.061	2.061	0.000	95	230428	10.0	10.2	
17 Trichlorofluoromethane	101	2.061	2.071	-0.010	59	182010	10.0	10.2	
19 Ethyl ether	59	2.299	2.299	0.000	92	112368	10.0	8.29	
21 Acrolein	56	2.486	2.486	0.000	99	141453	50.0	43.2	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	88	82544	10.0	8.54	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.517	0.000	51	86074	10.0	8.52	
23 Acetone	43	2.631	2.631	0.000	99	194059	50.0	41.4	
24 Iodomethane	142	2.662	2.662	0.000	98	134900	10.0	8.66	
25 Carbon disulfide	76	2.693	2.693	0.000	98	318680	10.0	8.51	
27 3-Chloro-1-propene	41	2.849	2.859	-0.010	89	310690	10.0	8.77	
28 Methyl acetate	43	2.890	2.890	0.000	99	258087	20.0	17.2	
30 Methylene Chloride	84	2.994	2.994	0.000	87	128541	10.0	8.97	
31 2-Methyl-2-propanol	59	3.160	3.149	0.011	41	91837	100.0	91.2	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	93	283529	10.0	8.68	
32 trans-1,2-Dichloroethene	96	3.180	3.191	-0.011	88	103092	10.0	9.03	
34 Acrylonitrile	53	3.242	3.242	0.000	98	606032	100.0	90.9	M
35 Hexane	57	3.346	3.346	0.000	95	240717	10.0	8.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	240346	10.0	8.87	
39 Vinyl acetate	43	3.595	3.595	0.000	96	738219	20.0	17.3	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	87	153183	10.0	8.81	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	118787	10.0	8.70	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	346425	50.0	43.5	
47 Chlorobromomethane	128	4.217	4.217	0.000	81	47364	10.0	8.50	
48 Tetrahydrofuran	42	4.227	4.227	0.000	91	97468	20.0	17.6	
50 Chloroform	83	4.279	4.279	0.000	96	183905	10.0	8.82	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	93	144173	10.0	8.55	
52 Cyclohexane	56	4.382	4.372	0.010	92	288596	10.0	8.43	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	85	139218	10.0	8.72	
53 Carbon tetrachloride	117	4.486	4.486	0.000	94	105263	10.0	8.49	
56 Isobutyl alcohol	43	4.673	4.652	0.021	72	113928	250.0	215.2	
55 Benzene	78	4.662	4.662	0.000	82	410323	10.0	8.81	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	93	194955	10.0	8.59	
59 n-Heptane	43	4.787	4.787	0.000	96	289466	10.0	8.02	
60 Trichloroethene	95	5.139	5.139	0.000	92	101464	10.0	8.61	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	161849	10.0	8.15	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	91	136707	10.0	8.55	
66 1,4-Dioxane	88	5.450	5.439	0.011	1	11920	200.0	200.7	M
65 Dibromomethane	93	5.439	5.450	-0.011	85	65669	10.0	8.67	
67 Dichlorobromomethane	83	5.564	5.564	0.000	94	120209	10.0	8.45	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	87	80289	10.0	8.75	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	84	156263	10.0	8.79	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	769399	50.0	44.7	
73 Toluene	92	6.103	6.092	0.011	95	245379	10.0	8.77	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	95	132909	10.0	8.52	
77 Ethyl methacrylate	69	6.331	6.331	0.000	92	118316	10.0	9.41	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	92	75229	10.0	9.10	
79 Tetrachloroethene	166	6.496	6.496	0.000	85	82825	10.0	8.49	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	96	163897	10.0	9.39	
81 2-Hexanone	43	6.621	6.621	0.000	98	504061	50.0	44.4	
82 Chlorodibromomethane	129	6.766	6.766	0.000	89	67050	10.0	8.77	
83 Ethylene Dibromide	107	6.849	6.849	0.000	97	85149	10.0	9.39	
86 Chlorobenzene	112	7.191	7.191	0.000	91	271195	10.0	8.76	
88 Ethylbenzene	91	7.253	7.253	0.000	98	473156	10.0	8.71	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	86	78967	10.0	9.33	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	167366	10.0	8.87	
91 o-Xylene	106	7.667	7.667	0.000	98	173218	10.0	9.20	
92 Styrene	104	7.688	7.688	0.000	91	278923	10.0	8.91	
93 Bromoform	173	7.885	7.885	0.000	91	31642	10.0	9.53	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	423544	10.0	8.75	
97 Bromobenzene	156	8.227	8.227	0.000	92	97318	10.0	8.83	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	93	108098	10.0	9.37	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	571096	10.0	8.70	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	93	29106	10.0	8.62	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	71	45537	10.0	9.01	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	99829	10.0	8.70	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	94	372327	10.0	8.72	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	362474	10.0	8.73	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	69915	10.0	8.09	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	388664	10.0	8.69	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	458709	10.0	8.61	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	96	381478	10.0	8.79	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	94	209627	10.0	8.96	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	88	206830	10.0	8.70	
115 n-Butylbenzene	91	9.315	9.315	0.000	99	400498	10.0	8.46	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	94	198004	10.0	8.59	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	60	14533	10.0	7.49	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	90	126339	10.0	8.83	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	90	51222	10.0	8.66	
121 Naphthalene	128	10.901	10.901	0.000	97	314586	10.0	9.04	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	91	115158	10.0	8.42	
S 126 Xylenes, Total	1				0			18.1	
S 123 1,3-Dichloropropene, Total	1				0			17.3	
S 124 1,2-Dichloroethene, Total	1				0			17.7	
S 125 Total BTEX	1				0			44.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113

Amount Added: 5.00

Units: uL

GAS CORP mix_00246

Amount Added: 5.00

Units: uL

T_8260_IS_00175

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00158

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0531.D

Injection Date: 19-Oct-2017 18:31:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 4

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

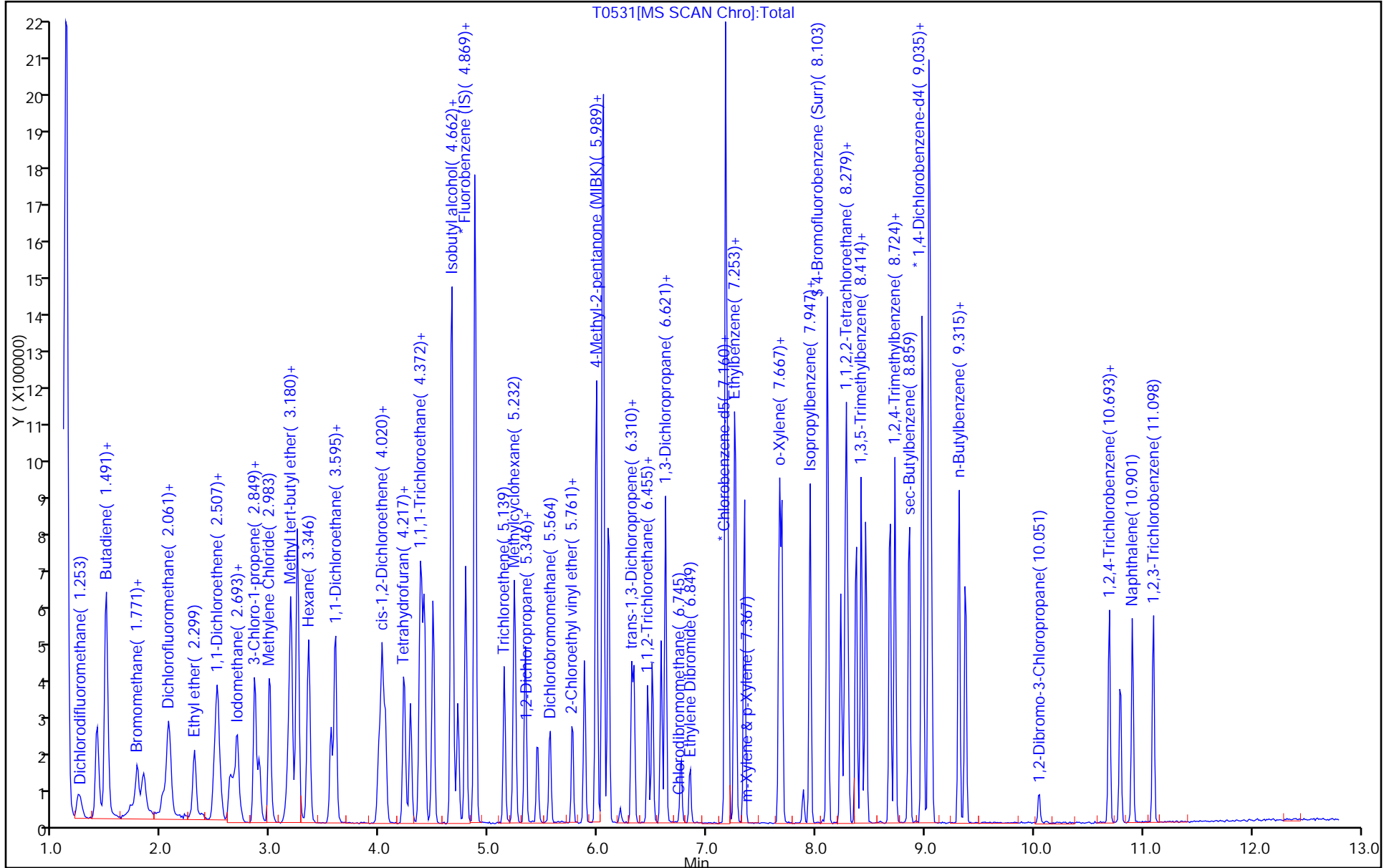
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

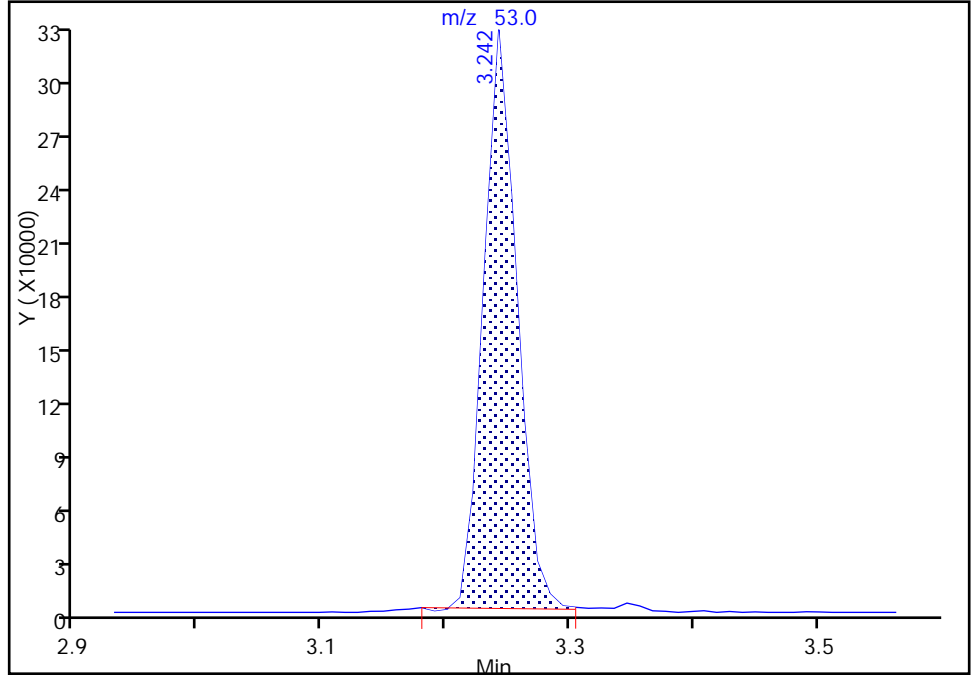
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Injection Date: 19-Oct-2017 18:31:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

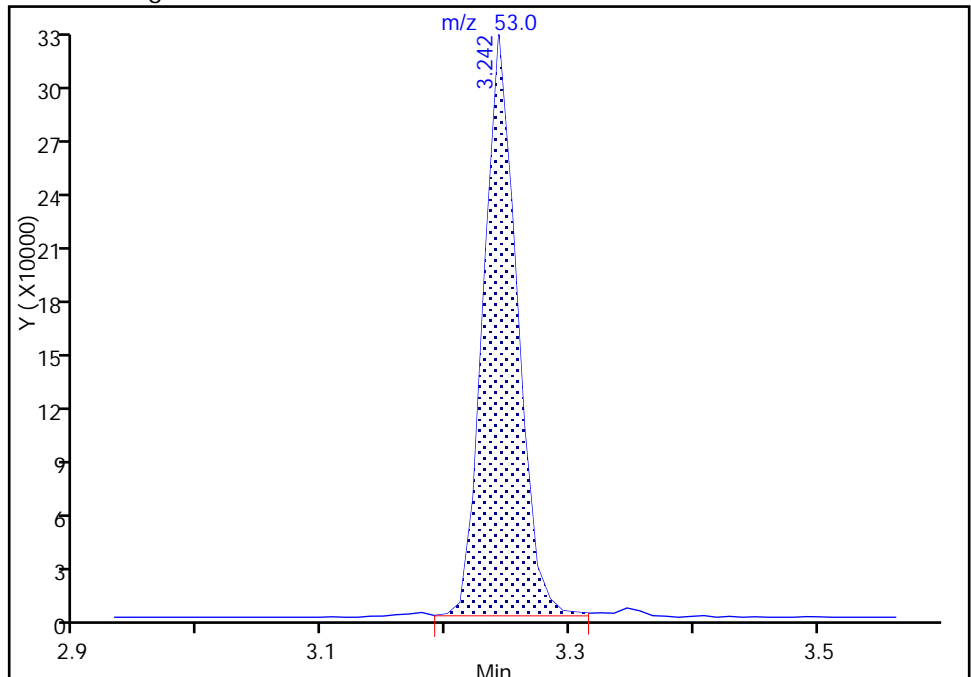
RT: 3.24
Area: 595096
Amount: 89.130845
Amount Units: ug/L

Processing Integration Results



RT: 3.24
Area: 606032
Amount: 90.884029
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 12:28:14
Audit Action: Split an Integrated Peak

Audit Reason: Baseline

TestAmerica Buffalo

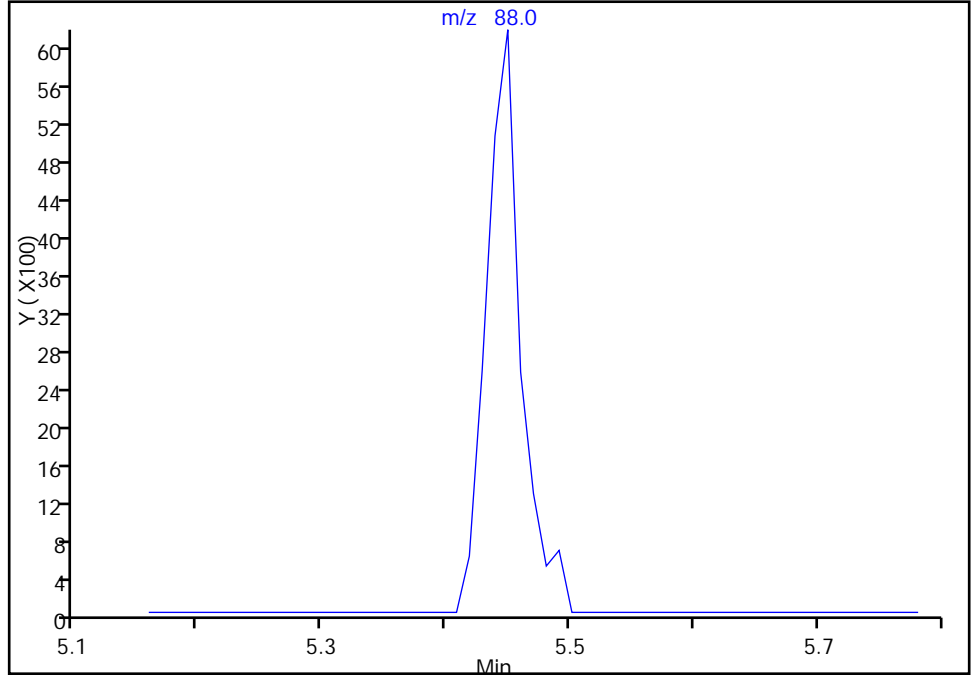
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0531.D
Injection Date: 19-Oct-2017 18:31:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

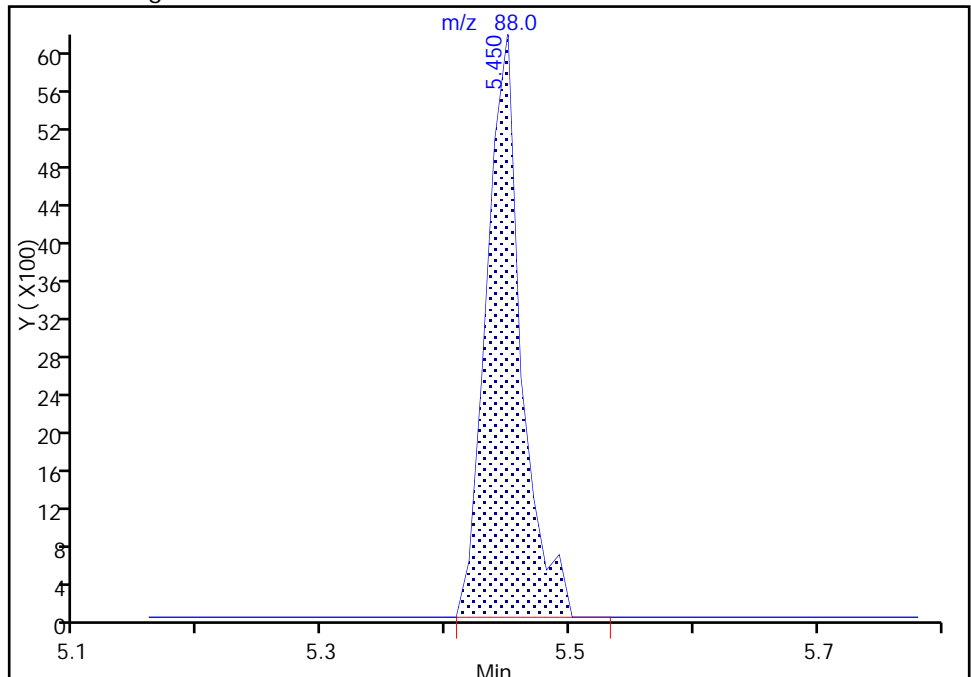
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 11920
Amount: 200.7144
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 12:30:23
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

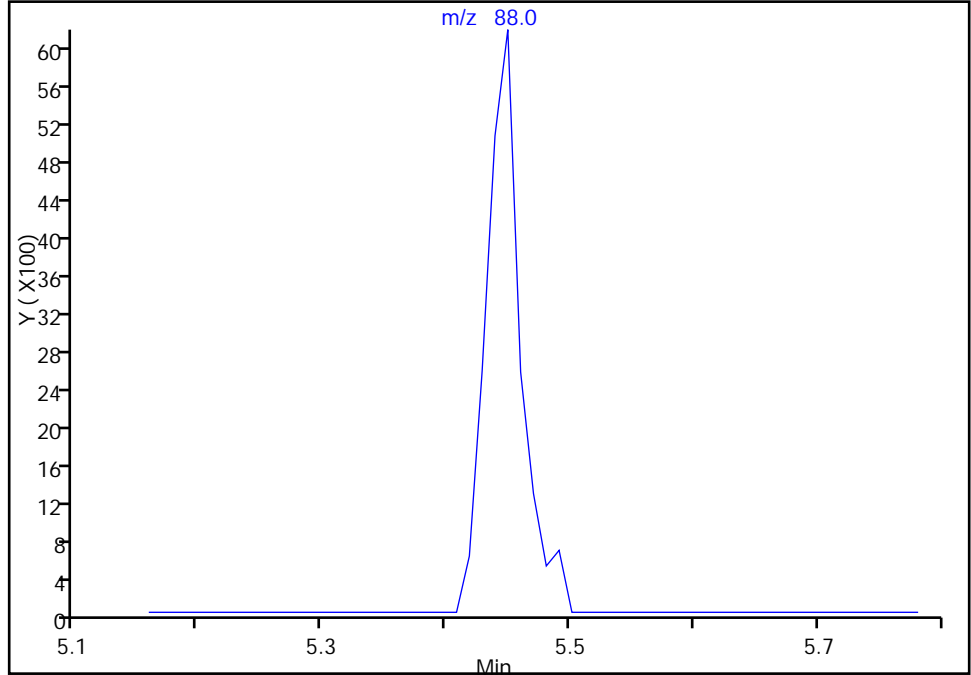
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0531.D
Injection Date: 19-Oct-2017 18:31:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

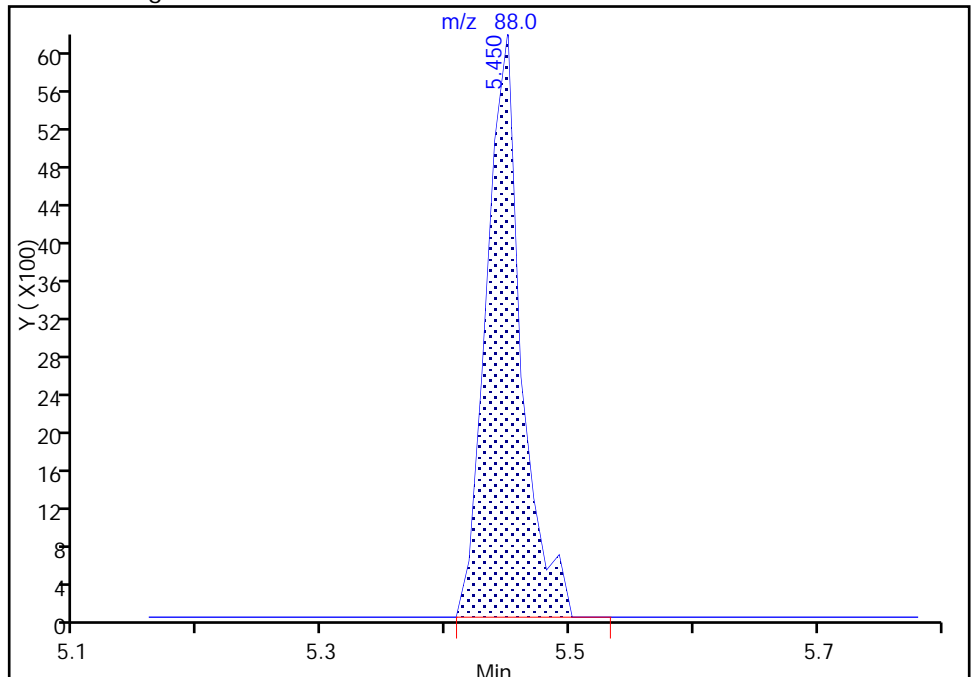
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 11920
Amount: 200.7144
Amount Units: ug/L



Reviewer: reiler, 20-Oct-2017 12:30:26

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0532.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 19-Oct-2017 18:55:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis 5
 Misc. Info.: 480-0066541-011
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:26:01 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: Hilll

Date: 23-Oct-2017 13:17:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.880	0.000	97	222595	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	94	731281	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	349659	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	261712	25.0	26.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	406540	25.0	26.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	968209	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	233333	25.0	25.4	
11 Dichlorodifluoromethane	85	1.242	1.242	0.000	98	368608	25.0	26.0	
13 Chloromethane	50	1.408	1.408	0.000	99	843997	25.0	25.6	
14 Vinyl chloride	62	1.491	1.491	0.000	96	532566	25.0	25.6	
151 Butadiene	54	1.491	1.491	0.000	94	642603	25.0	24.3	
15 Bromomethane	94	1.781	1.781	0.000	92	223656	25.0	25.3	
16 Chloroethane	64	1.833	1.833	0.000	93	247503	25.0	26.9	
18 Dichlorofluoromethane	67	2.061	2.061	0.000	97	563044	25.0	26.1	
17 Trichlorofluoromethane	101	2.071	2.071	0.000	95	458965	25.0	26.8	
19 Ethyl ether	59	2.299	2.299	0.000	93	333320	25.0	25.7	
21 Acrolein	56	2.486	2.486	0.000	100	414356	125.0	132.1	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	88	253793	25.0	27.4	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.517	0.000	96	255887	25.0	26.5	
23 Acetone	43	2.631	2.631	0.000	98	584198	125.0	130.1	
24 Iodomethane	142	2.662	2.662	0.000	98	397933	25.0	26.7	
25 Carbon disulfide	76	2.693	2.693	0.000	99	964831	25.0	26.9	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	88	910992	25.0	26.8	
28 Methyl acetate	43	2.890	2.890	0.000	99	698454	50.0	48.6	
30 Methylene Chloride	84	2.994	2.994	0.000	88	327526	25.0	26.0	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	98	263908	250.0	273.5	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	93	838839	25.0	26.8	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	88	300164	25.0	27.5	
34 Acrylonitrile	53	3.242	3.242	0.000	98	1755215	250.0	274.8	
35 Hexane	57	3.346	3.346	0.000	96	708333	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	712441	25.0	27.4	
39 Vinyl acetate	43	3.595	3.595	0.000	96	2230245	50.0	54.4	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	85	445399	25.0	26.7	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	351892	25.0	26.9	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	1036218	125.0	135.8	
47 Chlorobromomethane	128	4.217	4.217	0.000	81	140627	25.0	26.3	
48 Tetrahydrofuran	42	4.227	4.227	0.000	95	271229	50.0	51.1	
50 Chloroform	83	4.279	4.279	0.000	95	550241	25.0	27.6	
52 Cyclohexane	56	4.372	4.372	0.000	95	859809	25.0	26.2	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	92	443157	25.0	27.4	
53 Carbon tetrachloride	117	4.486	4.486	0.000	96	331579	25.0	27.9	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	88	427402	25.0	27.9	
56 Isobutyl alcohol	43	4.652	4.652	0.000	31	332128	625.0	654.8	
55 Benzene	78	4.662	4.662	0.000	89	1201037	25.0	26.9	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	558522	25.0	25.7	
59 n-Heptane	43	4.787	4.787	0.000	95	888787	25.0	25.7	
60 Trichloroethene	95	5.139	5.139	0.000	93	304721	25.0	27.0	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	509280	25.0	26.8	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	90	399190	25.0	26.1	
66 1,4-Dioxane	88	5.439	5.439	0.000	37	29304	500.0	501.8	
65 Dibromomethane	93	5.450	5.450	0.000	89	187029	25.0	25.8	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	368619	25.0	27.0	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	83	239437	25.0	27.2	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	86	476822	25.0	28.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	2313947	125.0	136.7	
73 Toluene	92	6.092	6.092	0.000	96	744513	25.0	27.1	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	428420	25.0	27.9	
77 Ethyl methacrylate	69	6.331	6.331	0.000	89	346098	25.0	28.0	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	92	220571	25.0	27.1	
79 Tetrachloroethene	166	6.496	6.496	0.000	89	255646	25.0	26.6	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	93	458800	25.0	26.7	
81 2-Hexanone	43	6.621	6.621	0.000	97	1545575	125.0	138.4	
82 Chlorodibromomethane	129	6.766	6.766	0.000	89	210517	25.0	28.0	
83 Ethylene Dibromide	107	6.849	6.849	0.000	99	236459	25.0	26.5	
86 Chlorobenzene	112	7.191	7.191	0.000	89	808628	25.0	26.6	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1425649	25.0	26.7	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	87	241358	25.0	29.0	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	510589	25.0	27.5	
91 o-Xylene	106	7.667	7.667	0.000	99	487256	25.0	26.3	
92 Styrene	104	7.688	7.688	0.000	92	844304	25.0	27.4	
93 Bromoform	173	7.885	7.885	0.000	90	95195	25.0	29.2	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	1306010	25.0	27.7	
97 Bromobenzene	156	8.227	8.227	0.000	93	271314	25.0	25.3	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	94	306929	25.0	27.3	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	1700422	25.0	26.6	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	89	89325	25.0	27.2	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	73	141598	25.0	28.8	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	310565	25.0	27.8	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	95	1107178	25.0	26.6	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	1061458	25.0	26.2	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	227518	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	1147115	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	1378885	25.0	26.6	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	1181781	25.0	27.9	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	93	593641	25.0	26.0	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	88	603230	25.0	26.0	
115 n-Butylbenzene	91	9.315	9.315	0.000	99	1233951	25.0	26.7	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	94	562035	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	66	47427	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	363528	25.0	26.1	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	90	156694	25.0	27.2	
121 Naphthalene	128	10.901	10.901	0.000	97	930232	25.0	27.4	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	94	347650	25.0	26.1	

Reagents:

8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
GAS CORP mix_00246	Amount Added: 12.50	Units: uL	
T_8260_IS_00175	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00158	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0532.D

Injection Date: 19-Oct-2017 18:55:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: ICIS 5

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

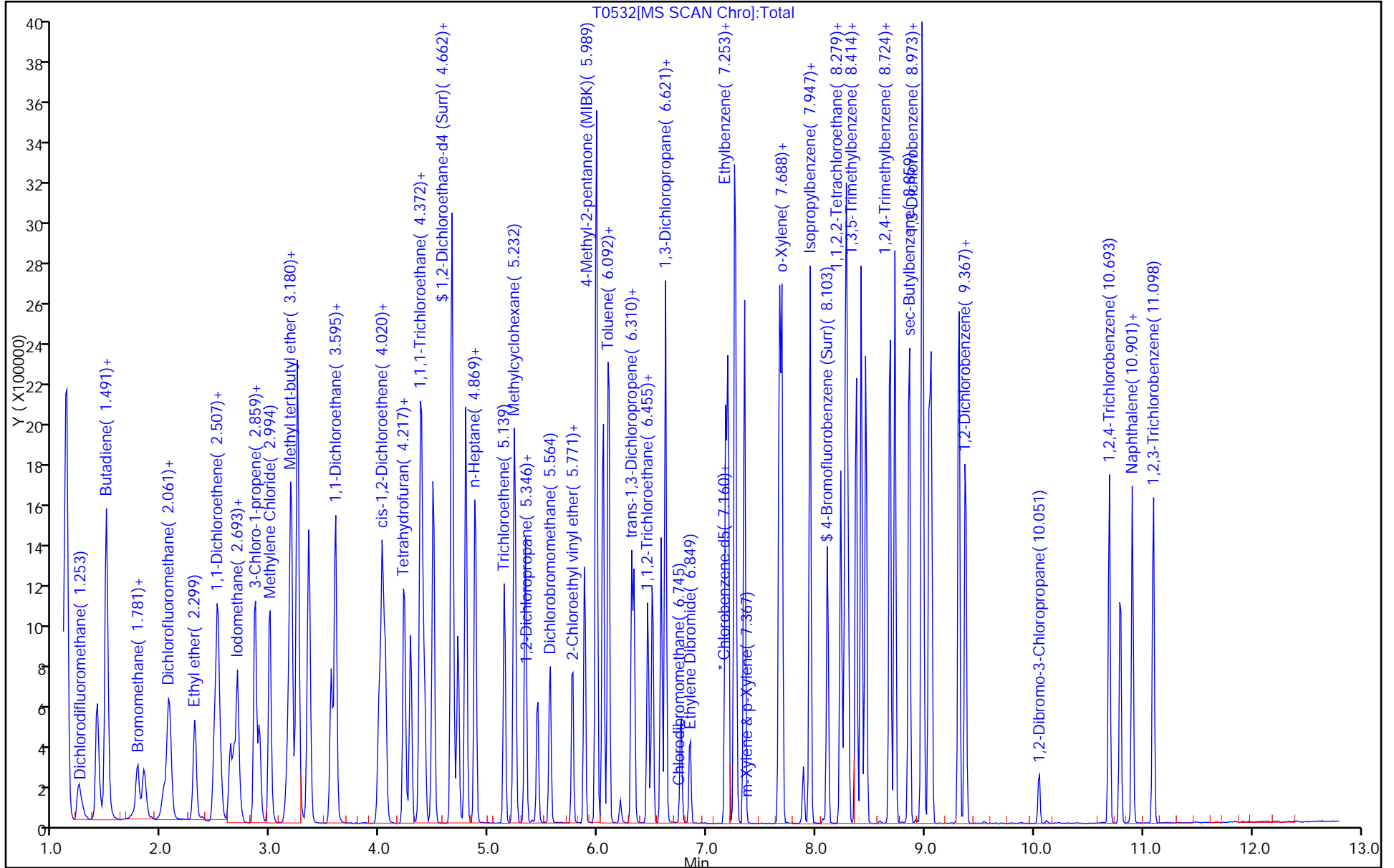
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0533.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Oct-2017 19:18:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 6
 Misc. Info.: 480-0066541-012
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:26:05 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler

Date: 20-Oct-2017 12:29:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.880	0.000	96	242121	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	764782	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	355380	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	90	259660	25.0	24.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	399204	25.0	24.0	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	1002625	25.0	25.2	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	78	239964	25.0	25.0	
11 Dichlorodifluoromethane	85	1.253	1.242	0.011	98	823383	50.0	53.4	
13 Chloromethane	50	1.419	1.408	0.011	99	1842538	50.0	51.3	
151 Butadiene	54	1.501	1.491	0.010	95	1370657	50.0	47.7	
14 Vinyl chloride	62	1.512	1.491	0.021	77	1133000	50.0	50.1	
15 Bromomethane	94	1.792	1.781	0.011	92	484873	50.0	50.5	
16 Chloroethane	64	1.854	1.833	0.021	95	553065	50.0	55.3	
18 Dichlorofluoromethane	67	2.082	2.061	0.021	96	1194658	50.0	50.9	
17 Trichlorofluoromethane	101	2.092	2.071	0.021	97	966746	50.0	51.8	
19 Ethyl ether	59	2.310	2.299	0.011	94	686924	50.0	48.6	
21 Acrolein	56	2.496	2.486	0.010	99	812339	250.0	238.0	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	88	528277	50.0	52.5	
20 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.517	0.021	95	553169	50.0	52.6	
23 Acetone	43	2.641	2.631	0.010	98	1113557	250.0	228.0	
24 Iodomethane	142	2.672	2.662	0.010	97	804799	50.0	49.6	
25 Carbon disulfide	76	2.704	2.693	0.011	99	1990022	50.0	51.0	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	89	1866938	50.0	50.6	
28 Methyl acetate	43	2.900	2.890	0.010	99	1396125	100.0	89.4	
30 Methylene Chloride	84	2.994	2.994	0.000	88	637641	50.0	47.5	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	96	516718	500.0	492.2	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	93	1636980	50.0	48.1	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	90	597619	50.0	50.2	
34 Acrylonitrile	53	3.253	3.242	0.011	97	3366858	500.0	484.6	M
35 Hexane	57	3.356	3.346	0.010	96	1466613	50.0	48.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.564	3.553	0.011	96	1383592	50.0	49.0	
39 Vinyl acetate	43	3.595	3.595	0.000	96	4434809	100.0	99.5	
42 2,2-Dichloropropane	77	4.009	3.999	0.010	86	930782	50.0	51.4	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	88	675263	50.0	47.5	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	1978203	250.0	238.4	
47 Chlorobromomethane	128	4.227	4.217	0.010	81	285689	50.0	49.2	
48 Tetrahydrofuran	42	4.227	4.227	0.000	94	539466	100.0	93.4	
50 Chloroform	83	4.289	4.279	0.010	96	1079006	50.0	49.7	
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	96	915335	50.0	52.1	
52 Cyclohexane	56	4.382	4.372	0.010	94	1803731	50.0	50.6	
54 1,1-Dichloropropene	75	4.496	4.486	0.010	86	853439	50.0	51.3	
53 Carbon tetrachloride	117	4.486	4.486	0.000	96	694667	50.0	53.8	
56 Isobutyl alcohol	43	4.662	4.652	0.010	41	703373	1250.0	1274.9	
55 Benzene	78	4.662	4.662	0.000	91	2395924	50.0	49.3	
57 1,2-Dichloroethane	62	4.724	4.714	0.010	95	1100318	50.0	46.5	
59 n-Heptane	43	4.787	4.787	0.000	94	1889875	50.0	50.3	
60 Trichloroethene	95	5.149	5.139	0.010	94	612064	50.0	49.9	
62 Methylcyclohexane	83	5.242	5.232	0.010	92	1080464	50.0	52.2	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	91	804789	50.0	48.3	
66 1,4-Dioxane	88	5.439	5.439	0.000	39	64695	1000.0	1059.3	
65 Dibromomethane	93	5.450	5.450	0.000	89	371402	50.0	47.1	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	763774	50.0	51.5	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	85	475863	50.0	49.8	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	86	950603	50.0	51.3	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	97	4516147	250.0	255.1	
73 Toluene	92	6.103	6.092	0.011	96	1454180	50.0	50.5	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	856948	50.0	53.4	
77 Ethyl methacrylate	69	6.331	6.331	0.000	89	687992	50.0	53.2	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	417176	50.0	49.1	
79 Tetrachloroethene	166	6.507	6.496	0.011	90	510924	50.0	50.9	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	93	895646	50.0	49.9	
81 2-Hexanone	43	6.621	6.621	0.000	97	3073073	250.0	263.2	
82 Chlorodibromomethane	129	6.766	6.766	0.000	88	455339	50.0	57.9	
83 Ethylene Dibromide	107	6.849	6.849	0.000	96	481781	50.0	51.6	
86 Chlorobenzene	112	7.191	7.191	0.000	90	1585013	50.0	49.8	
88 Ethylbenzene	91	7.253	7.253	0.000	98	2875266	50.0	51.5	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	92	494150	50.0	56.8	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	1038662	50.0	53.6	
91 o-Xylene	106	7.667	7.667	0.000	99	997446	50.0	51.5	
92 Styrene	104	7.688	7.688	0.000	91	1740545	50.0	54.1	
93 Bromoform	173	7.885	7.885	0.000	92	221157	50.0	64.8	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	2607593	50.0	54.4	
97 Bromobenzene	156	8.227	8.227	0.000	94	555397	50.0	50.9	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	96	607772	50.0	53.2	
99 N-Propylbenzene	91	8.279	8.279	0.000	100	3531602	50.0	54.3	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	90	174892	50.0	52.3	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	74	300411	50.0	60.0	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	589798	50.0	51.9	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	94	2267217	50.0	53.6	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	2154211	50.0	52.4	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	471618	50.0	55.1	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	2342329	50.0	52.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	2966080	50.0	56.2	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	2435392	50.0	56.7	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	93	1176776	50.0	50.8	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	1197430	50.0	50.8	
115 n-Butylbenzene	91	9.315	9.315	0.000	99	2567226	50.0	54.7	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	93	1137883	50.0	49.9	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	66	102809	50.0	48.4	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	747026	50.0	52.8	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	95	335674	50.0	57.3	
121 Naphthalene	128	10.901	10.901	0.000	97	1959366	50.0	56.8	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	94	687659	50.0	50.8	
S 126 Xylenes, Total	1				0			105.1	
S 123 1,3-Dichloropropene, Total	1				0			104.7	
S 124 1,2-Dichloroethene, Total	1				0			97.7	
S 125 Total BTEX	1				0			256.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113

Amount Added: 25.00

Units: uL

GAS CORP mix_00246

Amount Added: 25.00

Units: uL

T_8260_IS_00175

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00158

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0533.D

Injection Date: 19-Oct-2017 19:18:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 6

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

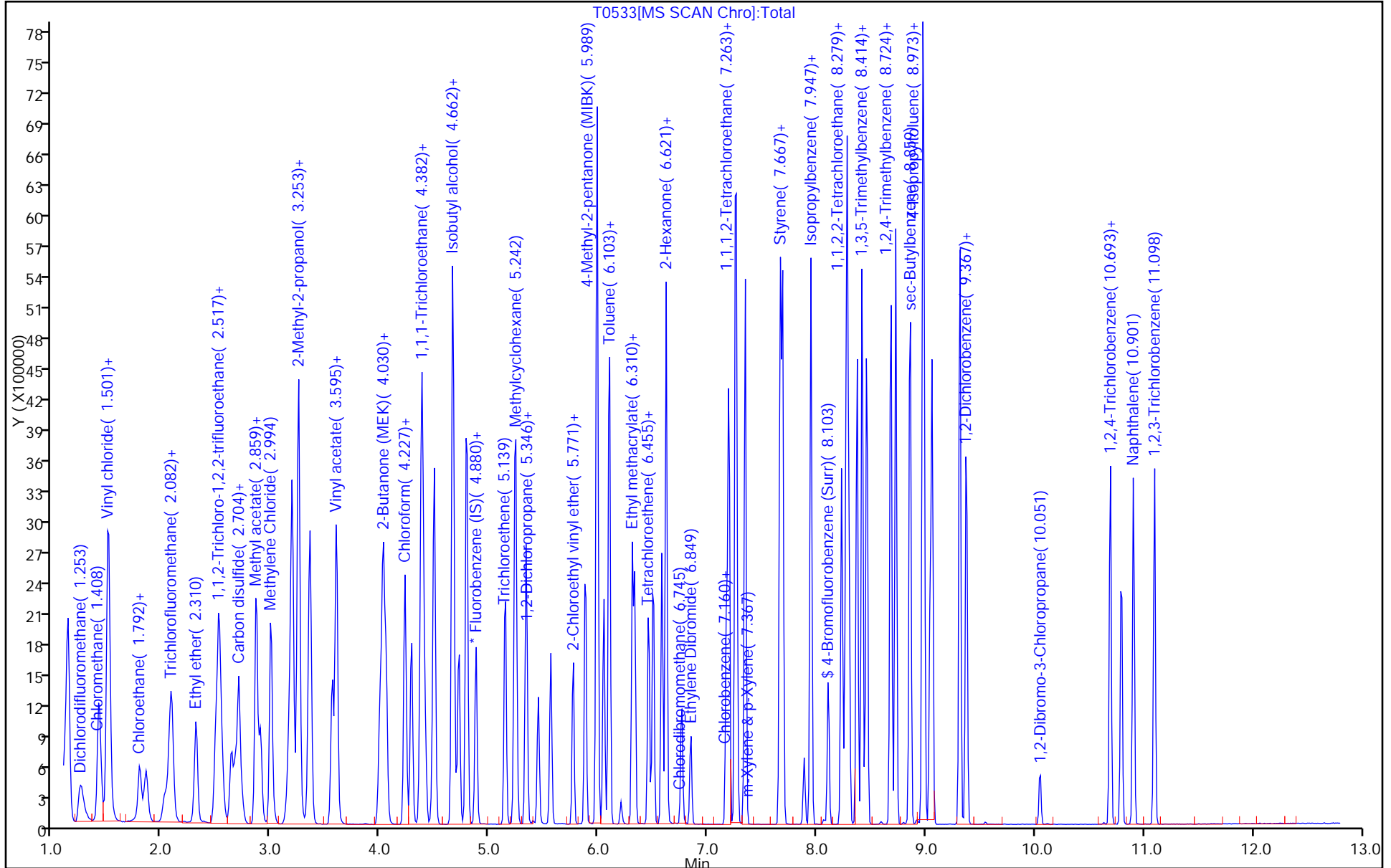
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

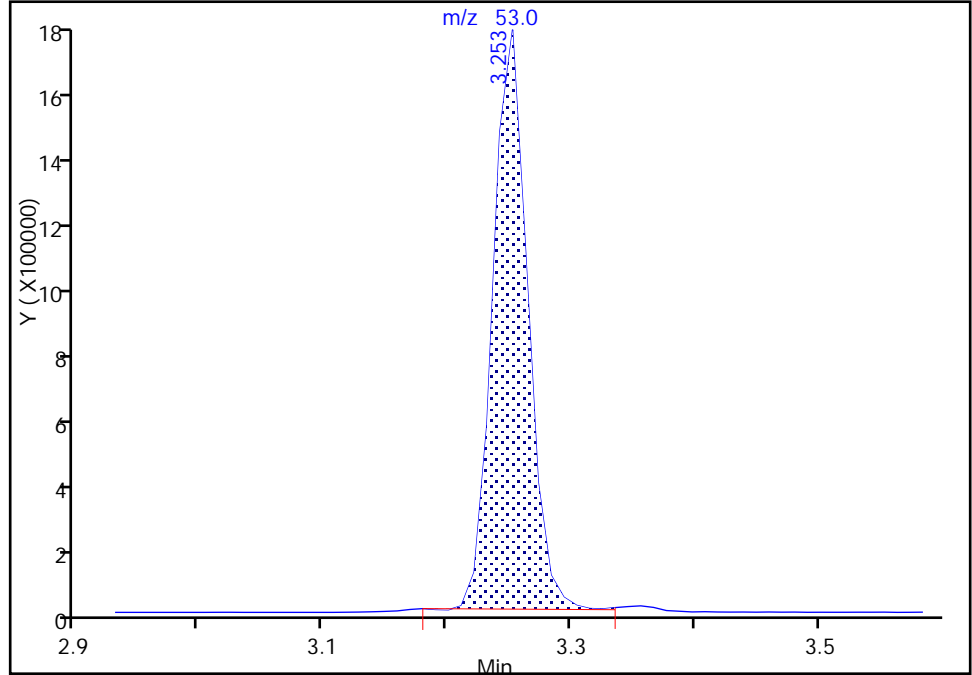
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0533.D
Injection Date: 19-Oct-2017 19:18:30 Instrument ID: HP5975T
Lims ID: IC 6
Client ID:
Operator ID: RR ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

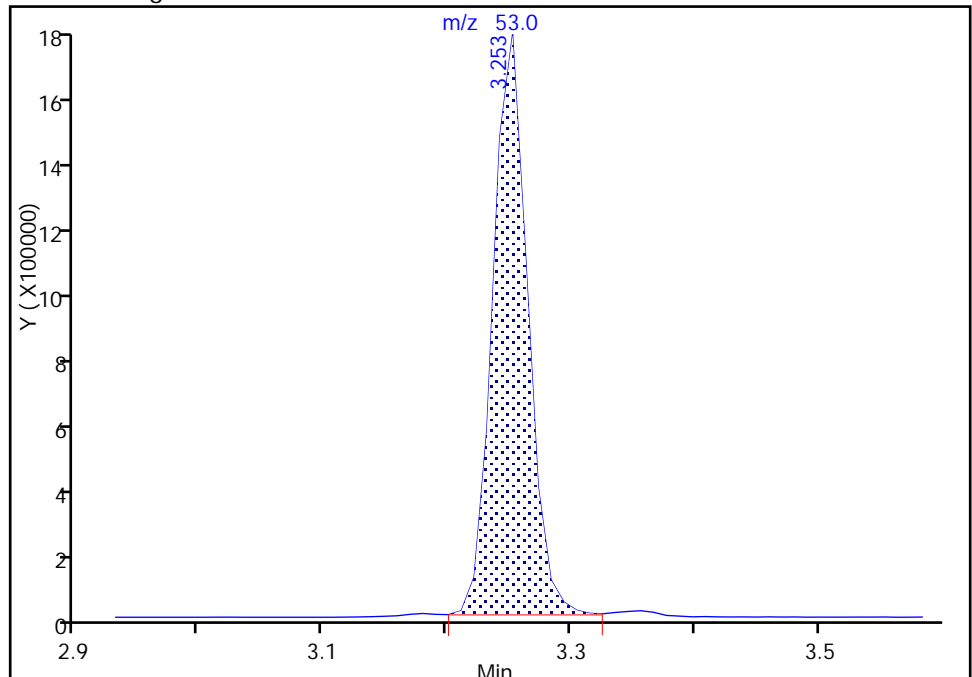
RT: 3.25
Area: 3349748
Amount: 480.7915
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 3366858
Amount: 484.5976
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 12:29:22
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0534.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 19-Oct-2017 19:42:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 7
 Misc. Info.: 480-0066541-013
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:26:07 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler

Date: 20-Oct-2017 09:59:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.880	0.000	97	238771	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	94	782407	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	88	378101	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	92	271599	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	402902	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	1011393	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	8.113	8.103	0.010	80	262138	25.0	26.7	
11 Dichlorodifluoromethane	85	1.263	1.242	0.021	98	1593345	100.0	104.9	
13 Chloromethane	50	1.429	1.408	0.021	99	3561417	100.0	100.6	
14 Vinyl chloride	62	1.512	1.491	0.021	97	2222717	100.0	99.6	
151 Butadiene	54	1.522	1.491	0.031	95	2740129	100.0	96.8	
15 Bromomethane	94	1.802	1.781	0.021	92	921650	100.0	97.3	
16 Chloroethane	64	1.864	1.833	0.031	94	1041794	100.0	105.7	
18 Dichlorofluoromethane	67	2.092	2.061	0.031	95	2325279	100.0	100.5	
17 Trichlorofluoromethane	101	2.092	2.071	0.021	98	1876029	100.0	102.0	
19 Ethyl ether	59	2.310	2.299	0.011	91	1342741	100.0	96.4	
21 Acrolein	56	2.496	2.486	0.010	100	1749243	500.0	519.7	
22 1,1-Dichloroethene	96	2.527	2.507	0.020	88	1155317	100.0	116.3	
20 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.517	0.021	96	1211444	100.0	116.8	
23 Acetone	43	2.641	2.631	0.010	97	2486459	500.0	516.3	
24 Iodomethane	142	2.683	2.662	0.021	98	1745183	100.0	109.1	
25 Carbon disulfide	76	2.703	2.693	0.010	99	4358592	100.0	113.3	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	89	4112932	100.0	113.0	
28 Methyl acetate	43	2.900	2.890	0.010	99	2981993	200.0	193.5	
30 Methylene Chloride	84	3.004	2.994	0.010	87	1337655	100.0	102.6	
31 2-Methyl-2-propanol	59	3.159	3.149	0.010	98	1218467	1000.0	1177.0	
33 Methyl tert-butyl ether	73	3.191	3.170	0.020	92	3537559	100.0	105.5	
32 trans-1,2-Dichloroethene	96	3.201	3.191	0.010	87	1283477	100.0	109.4	
34 Acrylonitrile	53	3.253	3.242	0.011	98	7225202	1000.0	1054.5	M
35 Hexane	57	3.356	3.346	0.010	97	3256677	100.0	110.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.564	3.553	0.011	96	3036233	100.0	109.0	
39 Vinyl acetate	43	3.605	3.595	0.010	96	9942726	200.0	226.2	
42 2,2-Dichloropropane	77	4.009	3.999	0.010	87	2038379	100.0	114.0	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	88	1466809	100.0	104.5	
44 2-Butanone (MEK)	43	4.061	4.051	0.010	96	4430047	500.0	541.4	
47 Chlorobromomethane	128	4.227	4.217	0.010	81	607132	100.0	106.0	
48 Tetrahydrofuran	42	4.237	4.227	0.010	94	1180569	200.0	207.2	
50 Chloroform	83	4.289	4.279	0.010	96	2322732	100.0	108.5	
52 Cyclohexane	56	4.382	4.372	0.010	91	4072721	100.0	115.8	
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	94	2029306	100.0	117.2	
53 Carbon tetrachloride	117	4.486	4.486	0.000	96	1623403	100.0	127.4	
54 1,1-Dichloropropene	75	4.496	4.486	0.010	87	1887282	100.0	115.0	
56 Isobutyl alcohol	43	4.672	4.652	0.020	57	1709998	2500.0	3142.9	
55 Benzene	78	4.662	4.662	0.000	92	5188136	100.0	108.4	
57 1,2-Dichloroethane	62	4.724	4.714	0.010	94	2379975	100.0	102.0	
59 n-Heptane	43	4.797	4.787	0.010	94	4191070	100.0	113.1	
60 Trichloroethene	95	5.149	5.139	0.010	94	1356047	100.0	112.0	
62 Methylcyclohexane	83	5.242	5.232	0.010	92	2390310	100.0	117.2	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	93	1795347	100.0	109.3	
66 1,4-Dioxane	88	5.450	5.439	0.011	37	147146	2000.0	2355.2	
65 Dibromomethane	93	5.450	5.450	0.000	89	825210	100.0	106.0	
67 Dichlorobromomethane	83	5.564	5.564	0.000	94	1735370	100.0	118.7	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	85	1060613	100.0	112.5	
71 cis-1,3-Dichloropropene	75	5.885	5.875	0.010	85	2147449	100.0	117.5	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	97	9861601	500.0	544.6	
73 Toluene	92	6.103	6.092	0.011	96	3209462	100.0	109.0	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	1940066	100.0	118.1	
77 Ethyl methacrylate	69	6.331	6.331	-0.001	89	1549731	100.0	117.2	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	927080	100.0	106.7	
79 Tetrachloroethene	166	6.507	6.496	0.011	90	1151049	100.0	112.1	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	93	1957906	100.0	106.7	
81 2-Hexanone	43	6.621	6.621	0.000	98	6624708	500.0	554.6	
82 Chlorodibromomethane	129	6.766	6.766	0.000	89	1060129	100.0	131.8	
83 Ethylene Dibromide	107	6.849	6.849	0.000	99	1059419	100.0	111.0	
86 Chlorobenzene	112	7.201	7.191	0.010	90	3420127	100.0	105.0	
88 Ethylbenzene	91	7.253	7.253	0.000	98	6259102	100.0	109.6	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	92	1122203	100.0	126.1	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	2222558	100.0	112.0	
91 o-Xylene	106	7.667	7.667	0.000	98	2198924	100.0	111.0	
92 Styrene	104	7.688	7.688	0.000	91	3806101	100.0	115.6	
93 Bromoform	173	7.885	7.885	0.000	91	533894	100.0	152.9	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	5742029	100.0	112.6	
97 Bromobenzene	156	8.227	8.227	0.000	94	1230650	100.0	106.0	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	93	1351372	100.0	111.2	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	7635924	100.0	110.4	
100 1,2,3-Trichloropropane	110	8.299	8.289	0.010	90	371671	100.0	104.5	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.300	-0.001	75	668445	100.0	125.5	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	1307397	100.0	108.1	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	94	4930278	100.0	109.6	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	4636158	100.0	106.0	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	1057341	100.0	116.2	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	5193758	100.0	110.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	6444475	100.0	114.8	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	5343042	100.0	116.8	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	94	2513130	100.0	102.0	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	2618995	100.0	104.5	
115 n-Butylbenzene	91	9.315	9.315	0.000	99	5687226	100.0	114.0	
116 1,2-Dichlorobenzene	146	9.377	9.367	0.010	93	2438718	100.0	100.5	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	68	241528	100.0	105.9	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	92	1624368	100.0	107.8	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	93	762640	100.0	122.4	
121 Naphthalene	128	10.901	10.901	0.000	97	4196576	100.0	114.4	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	94	1506063	100.0	104.5	
S 124 1,2-Dichloroethene, Total	1				0			214.0	
S 125 Total BTEX	1				0			550.0	
S 126 Xylenes, Total	1				0			223.0	
S 123 1,3-Dichloropropene, Total	1				0			235.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113

Amount Added: 50.00

Units: uL

GAS CORP mix_00246

Amount Added: 50.00

Units: uL

T_8260_IS_00175

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00158

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0534.D

Injection Date: 19-Oct-2017 19:42:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 7

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

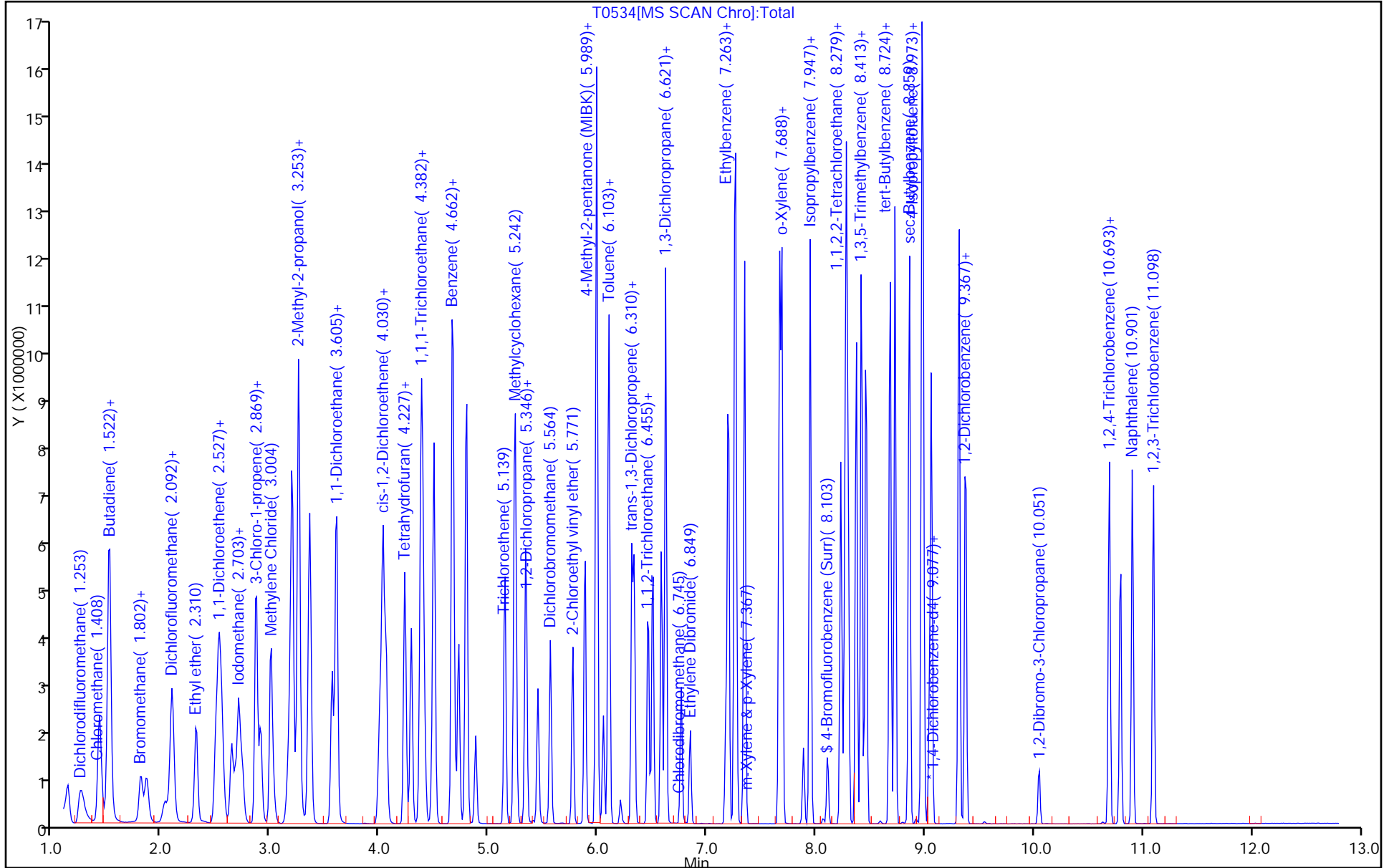
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

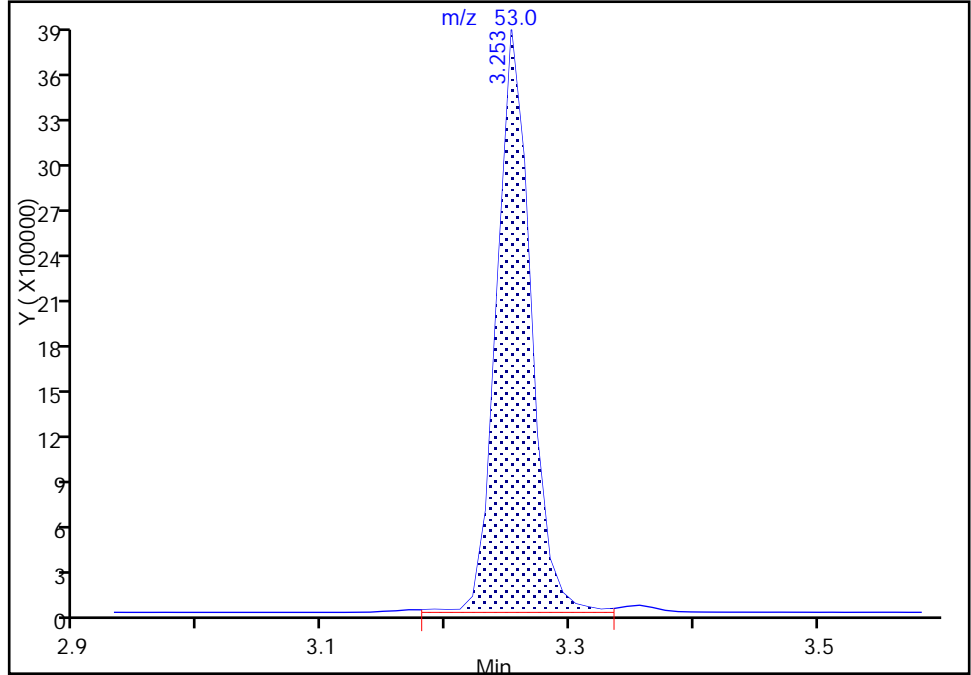
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0534.D
Injection Date: 19-Oct-2017 19:42:30 Instrument ID: HP5975T
Lims ID: IC 7
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

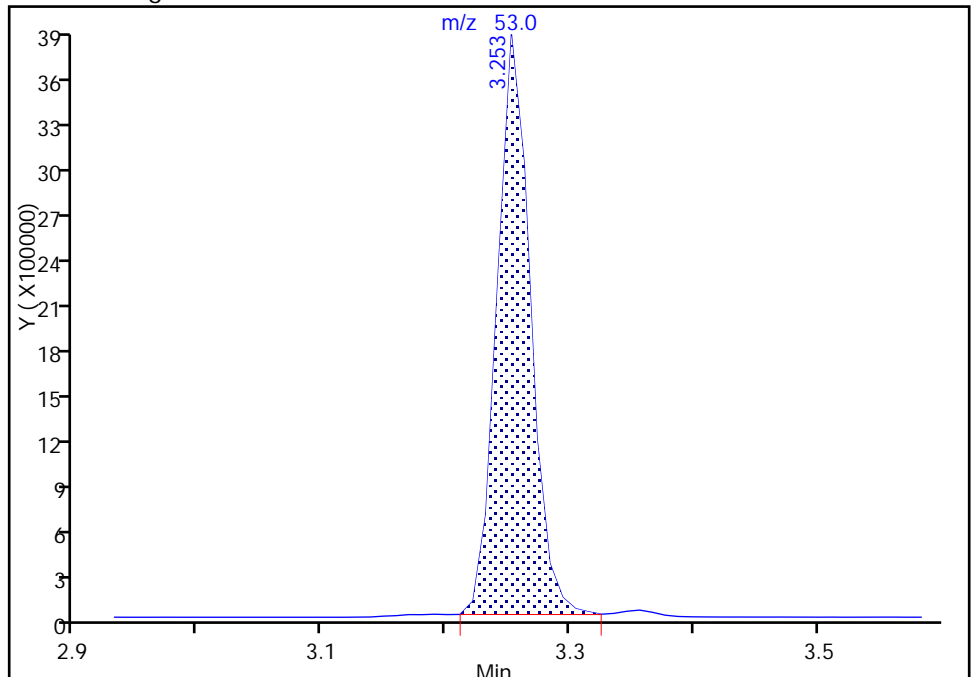
RT: 3.25
Area: 7412100
Amount: 1078.1279
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 7225202
Amount: 1054.5260
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 20-Oct-2017 12:29:46
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-384727/10 Calibration Date: 10/31/2017 09:24
 Instrument ID: HP5975T Calib Start Date: 10/19/2017 16:57
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 10/19/2017 19:42
 Lab File ID: T1175.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.591	1.467	0.1000	23.0	25.0	-7.8	50.0
Chloromethane	Ave	3.708	3.322	0.1000	22.4	25.0	-10.4	20.0
Butadiene	Ave	2.964	2.506		21.1	25.0	-15.4	20.0
Vinyl chloride	Ave	2.337	2.055	0.1000	22.0	25.0	-12.1	20.0
Bromomethane	Ave	0.9914	0.8755	0.1000	22.1	25.0	-11.7	50.0
Chloroethane	Ave	1.032	0.9816	0.1000	23.8	25.0	-4.9	50.0
Trichlorofluoromethane	Ave	1.926	1.943	0.1000	25.2	25.0	0.9	20.0
Dichlorofluoromethane	Ave	2.422	2.200		22.7	25.0	-9.2	20.0
Ethyl ether	Ave	1.459	1.108		19.0	25.0	-24.0*	20.0
Acrolein	Ave	0.3524	0.2356		83.6	125	-33.1	50.0
1,1-Dichloroethene	Ave	1.040	1.041	0.1000	25.0	25.0	0.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.086	1.122	0.1000	25.8	25.0	3.3	20.0
Acetone	Ave	0.5042	0.5028	0.1000	125	125	-0.3	50.0
Iodomethane	Ave	1.675	1.662		24.8	25.0	-0.8	20.0
Carbon disulfide	Ave	4.027	3.936	0.1000	24.4	25.0	-2.3	20.0
Allyl chloride	Ave	3.811	3.688		24.2	25.0	-3.2	20.0
Methyl acetate	Ave	1.613	1.071	0.1000	33.2	50.0	-33.6	50.0
Methylene Chloride	Lin1		1.261	0.1000	22.1	25.0	-11.6	20.0
2-Methyl-2-propanol	Ave	0.1084	0.1021		235	250	-5.8	50.0
Methyl tert-butyl ether	Ave	3.512	2.779	0.1000	19.8	25.0	-20.9*	20.0
trans-1,2-Dichloroethene	Ave	1.228	1.187	0.1000	24.2	25.0	-3.3	20.0
Acrylonitrile	Ave	0.7174	0.5178		180	250	-27.8*	20.0
Hexane	Ave	3.094	2.882		23.3	25.0	-6.9	20.0
1,1-Dichloroethane	Ave	2.916	2.844	0.2000	24.4	25.0	-2.4	20.0
Vinyl acetate	Ave	4.603	3.794		41.2	50.0	-17.6	20.0
2,2-Dichloropropane	Ave	1.871	1.994		26.6	25.0	6.6	20.0
cis-1,2-Dichloroethene	Ave	1.469	1.360	0.1000	23.2	25.0	-7.4	20.0
2-Butanone (MEK)	Ave	0.8568	0.6917	0.1000	101	125	-19.3	20.0
Chlorobromomethane	Ave	0.5997	0.5453		22.7	25.0	-9.1	20.0
Tetrahydrofuran	Ave	0.5965	0.4232		35.5	50.0	-29.1*	20.0
Chloroform	Ave	2.242	2.090	0.2000	23.3	25.0	-6.8	20.0
1,1,1-Trichloroethane	Ave	1.813	1.939	0.1000	26.7	25.0	6.9	20.0
Cyclohexane	Ave	3.682	3.612	0.1000	24.5	25.0	-1.9	20.0
Carbon tetrachloride	Ave	1.334	1.586	0.1000	29.7	25.0	18.9	20.0
1,1-Dichloropropene	Ave	1.718	1.743		25.4	25.0	1.5	20.0
Isobutyl alcohol	Ave	0.0570	0.0560		614	625	-1.7	50.0
Benzene	Ave	5.013	4.849	0.5000	24.2	25.0	-3.3	20.0
1,2-Dichloroethane	Ave	2.442	1.959	0.1000	20.1	25.0	-19.8	20.0
n-Heptane	Ave	3.881	3.860		24.9	25.0	-0.6	20.0
Trichloroethene	Ave	1.267	1.239	0.2000	24.4	25.0	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-384727/10 Calibration Date: 10/31/2017 09:24
 Instrument ID: HP5975T Calib Start Date: 10/19/2017 16:57
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 10/19/2017 19:42
 Lab File ID: T1175.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.136	2.131	0.1000	24.9	25.0	-0.2	20.0
1,2-Dichloropropane	Ave	1.720	1.526	0.1000	22.2	25.0	-11.3	20.0
1,4-Dioxane	Ave	0.0020	0.0021		516	500	3.3	50.0
Dibromomethane	Ave	0.8149	0.6791	0.1000	20.8	25.0	-16.7	20.0
Bromodichloromethane	Ave	1.531	1.563	0.2000	25.5	25.0	2.0	20.0
2-Chloroethyl vinyl ether	Ave	0.9869	0.7567		19.2	25.0	-23.3*	20.0
cis-1,3-Dichloropropene	Ave	1.913	1.816	0.2000	23.7	25.0	-5.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5786	0.4552	0.1000	98.3	125	-21.3*	20.0
Toluene	Ave	0.9405	0.9743	0.4000	25.9	25.0	3.6	20.0
trans-1,3-Dichloropropene	Ave	0.5247	0.5066	0.1000	24.1	25.0	-3.4	20.0
Ethyl methacrylate	Ave	0.4226	0.3620		21.4	25.0	-14.3	20.0
1,1,2-Trichloroethane	Ave	0.2777	0.2377	0.1000	21.4	25.0	-14.4	20.0
Tetrachloroethene	Ave	0.3280	0.3515	0.2000	26.8	25.0	7.2	20.0
1,3-Dichloropropane	Ave	0.5865	0.5104		21.8	25.0	-13.0	20.0
2-Hexanone	Ave	0.3817	0.3234	0.1000	106	125	-15.3	20.0
Dibromochloromethane	Ave	0.2570	0.2838	0.1000	27.6	25.0	10.4	20.0
1,2-Dibromoethane	Ave	0.3049	0.2650		21.7	25.0	-13.1	20.0
Chlorobenzene	Ave	1.041	1.037	0.5000	24.9	25.0	-0.4	20.0
Ethylbenzene	Ave	1.825	1.883	0.1000	25.8	25.0	3.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2844	0.3372		29.6	25.0	18.6	20.0
m,p-Xylene	Ave	0.6340	0.6899	0.1000	27.2	25.0	8.8	20.0
o-Xylene	Ave	0.6330	0.6469	0.3000	25.6	25.0	2.2	20.0
Styrene	Ave	1.052	1.107	0.3000	26.3	25.0	5.2	20.0
Bromoform	Ave	0.1116	0.1383	0.1000	31.0	25.0	24.0	50.0
Isopropylbenzene	Ave	3.371	3.634	0.1000	27.0	25.0	7.8	20.0
Bromobenzene	Ave	0.7677	0.7811		25.4	25.0	1.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8037	0.6749	0.3000	21.0	25.0	-16.0	20.0
N-Propylbenzene	Ave	4.575	4.791		26.2	25.0	4.7	20.0
1,2,3-Trichloropropane	Ave	0.2351	0.1897		20.2	25.0	-19.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3521	0.2577		18.3	25.0	-26.8	50.0
2-Chlorotoluene	Ave	0.7997	0.8564		26.8	25.0	7.1	20.0
1,3,5-Trimethylbenzene	Ave	2.974	3.108		26.1	25.0	4.5	20.0
4-Chlorotoluene	Ave	2.891	3.008		26.0	25.0	4.0	20.0
tert-Butylbenzene	Ave	0.6017	0.6501		27.0	25.0	8.0	20.0
1,2,4-Trimethylbenzene	Ave	3.117	3.242		26.0	25.0	4.0	20.0
sec-Butylbenzene	Ave	3.712	4.062		27.4	25.0	9.4	20.0
4-Isopropyltoluene	Ave	3.023	3.317		27.4	25.0	9.7	20.0
1,3-Dichlorobenzene	Ave	1.630	1.653	0.6000	25.4	25.0	1.4	20.0
1,4-Dichlorobenzene	Ave	1.657	1.657	0.5000	25.0	25.0	-0.0	20.0
n-Butylbenzene	Ave	3.300	3.511		26.6	25.0	6.4	20.0
1,2-Dichlorobenzene	Ave	1.605	1.483	0.4000	23.1	25.0	-7.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-384727/10 Calibration Date: 10/31/2017 09:24
 Instrument ID: HP5975T Calib Start Date: 10/19/2017 16:57
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 10/19/2017 19:42
 Lab File ID: T1175.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1032	0.0500	17.8	25.0	-28.8	50.0
1,2,4-Trichlorobenzene	Ave	0.996	0.9742	0.2000	24.4	25.0	-2.2	20.0
Hexachlorobutadiene	Ave	0.4119	0.4651		28.2	25.0	12.9	20.0
Naphthalene	Ave	2.425	1.985		20.5	25.0	-18.1	20.0
1,2,3-Trichlorobenzene	Ave	0.9525	0.8307		21.8	25.0	-12.8	20.0
Dibromofluoromethane (Surr)	Ave	1.115	1.047		23.5	25.0	-6.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.716	1.449		21.1	25.0	-15.6	20.0
Toluene-d8 (Surr)	Ave	1.303	1.307		25.1	25.0	0.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3138	0.2994		23.9	25.0	-4.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1175.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 31-Oct-2017 09:24:30 ALS Bottle#: 4 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0066859-004
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 17:17:43 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 31-Oct-2017 09:44:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	96	198510	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	614897	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	296739	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	90	207871	25.0	23.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	287557	25.0	21.1	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	803707	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	184078	25.0	23.9	
11 Dichlorodifluoromethane	85	1.242	1.242	0.000	97	291114	25.0	23.0	
13 Chloromethane	50	1.408	1.408	0.000	99	659548	25.0	22.4	
151 Butadiene	54	1.491	1.491	0.000	95	497530	25.0	21.1	
14 Vinyl chloride	62	1.501	1.501	0.000	97	407950	25.0	22.0	
15 Bromomethane	94	1.792	1.792	0.000	93	173802	25.0	22.1	
16 Chloroethane	64	1.854	1.854	0.000	94	194847	25.0	23.8	
17 Trichlorofluoromethane	101	2.061	2.061	0.000	59	385666	25.0	25.2	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	94	436622	25.0	22.7	
19 Ethyl ether	59	2.310	2.310	0.000	91	219990	25.0	19.0	
21 Acrolein	56	2.486	2.486	0.000	99	233852	125.0	83.6	
22 1,1-Dichloroethene	96	2.517	2.517	0.000	90	206564	25.0	25.0	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	96	222691	25.0	25.8	
23 Acetone	43	2.631	2.631	0.000	98	499021	125.0	124.6	
24 Iodomethane	142	2.662	2.662	0.000	98	329861	25.0	24.8	
25 Carbon disulfide	76	2.703	2.703	0.000	99	781267	25.0	24.4	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	89	732144	25.0	24.2	
28 Methyl acetate	43	2.900	2.900	0.000	99	425232	50.0	33.2	
30 Methylene Chloride	84	2.994	2.994	0.000	88	250305	25.0	22.1	
31 2-Methyl-2-propanol	59	3.159	3.159	0.000	50	202611	250.0	235.4	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	91	551690	25.0	19.8	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	89	235656	25.0	24.2	
34 Acrylonitrile	53	3.253	3.253	0.000	95	1027830	250.0	180.4	
35 Hexane	57	3.346	3.346	0.000	96	572162	25.0	23.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	564627	25.0	24.4	
39 Vinyl acetate	43	3.595	3.595	0.000	96	1506294	50.0	41.2	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	90	395901	25.0	26.6	
43 cis-1,2-Dichloroethene	96	4.030	4.030	0.000	89	270059	25.0	23.2	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	95	686520	125.0	100.9	
47 Chlorobromomethane	128	4.216	4.216	0.000	82	108254	25.0	22.7	
48 Tetrahydrofuran	42	4.227	4.227	0.000	92	168017	50.0	35.5	
50 Chloroform	83	4.279	4.279	0.000	93	414973	25.0	23.3	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	72	384886	25.0	26.7	
52 Cyclohexane	56	4.382	4.382	0.000	93	716967	25.0	24.5	
53 Carbon tetrachloride	117	4.486	4.486	0.000	97	314865	25.0	29.7	
54 1,1-Dichloropropene	75	4.496	4.496	0.000	87	345953	25.0	25.4	
56 Isobutyl alcohol	43	4.652	4.652	0.000	94	277792	625.0	614.1	
55 Benzene	78	4.662	4.662	0.000	90	962630	25.0	24.2	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	93	388943	25.0	20.1	
59 n-Heptane	43	4.786	4.786	0.000	95	766149	25.0	24.9	
60 Trichloroethene	95	5.139	5.139	0.000	94	246022	25.0	24.4	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	422939	25.0	24.9	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	87	302935	25.0	22.2	
66 1,4-Dioxane	88	5.439	5.439	0.000	36	25354	500.0	516.4	
65 Dibromomethane	93	5.450	5.450	0.000	87	134817	25.0	20.8	
67 Dichlorobromomethane	83	5.564	5.564	0.000	96	310186	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	5.771	5.771	0.000	84	150214	25.0	19.2	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	86	360401	25.0	23.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	1399643	125.0	98.3	
73 Toluene	92	6.103	6.103	0.000	97	599095	25.0	25.9	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	97	311529	25.0	24.1	
77 Ethyl methacrylate	69	6.331	6.331	0.000	91	222564	25.0	21.4	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	92	146136	25.0	21.4	
79 Tetrachloroethene	166	6.496	6.496	0.000	86	216151	25.0	26.8	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	93	313813	25.0	21.8	
81 2-Hexanone	43	6.621	6.621	0.000	97	994252	125.0	105.9	
82 Chlorodibromomethane	129	6.766	6.766	0.000	90	174492	25.0	27.6	
83 Ethylene Dibromide	107	6.849	6.849	0.000	97	162931	25.0	21.7	
86 Chlorobenzene	112	7.191	7.191	0.000	90	637651	25.0	24.9	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1158049	25.0	25.8	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	91	207341	25.0	29.6	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	424195	25.0	27.2	
91 o-Xylene	106	7.667	7.667	0.000	98	397787	25.0	25.6	
92 Styrene	104	7.688	7.688	0.000	92	680839	25.0	26.3	
93 Bromoform	173	7.885	7.885	0.000	91	85060	25.0	31.0	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	1078473	25.0	27.0	
97 Bromobenzene	156	8.227	8.227	0.000	95	231782	25.0	25.4	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	94	200265	25.0	21.0	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	1421600	25.0	26.2	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	88	56294	25.0	20.2	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	73	76472	25.0	18.3	
105 2-Chlorotoluene	126	8.372	8.372	0.000	95	254119	25.0	26.8	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	95	922246	25.0	26.1	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	892544	25.0	26.0	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	192899	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	961992	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	1205377	25.0	27.4	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	96	984344	25.0	27.4	
110 1,3-Dichlorobenzene	146	8.983	8.983	0.000	94	490447	25.0	25.4	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	88	491560	25.0	25.0	
115 n-Butylbenzene	91	9.315	9.315	0.000	99	1041836	25.0	26.6	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	93	439934	25.0	23.1	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.040	0.000	68	30609	25.0	17.8	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	289075	25.0	24.4	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	91	138014	25.0	28.2	
121 Naphthalene	128	10.901	10.901	0.000	97	589077	25.0	20.5	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	93	246485	25.0	21.8	

Reagents:

GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1175.D

Injection Date: 31-Oct-2017 09:24:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: CCVIS

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

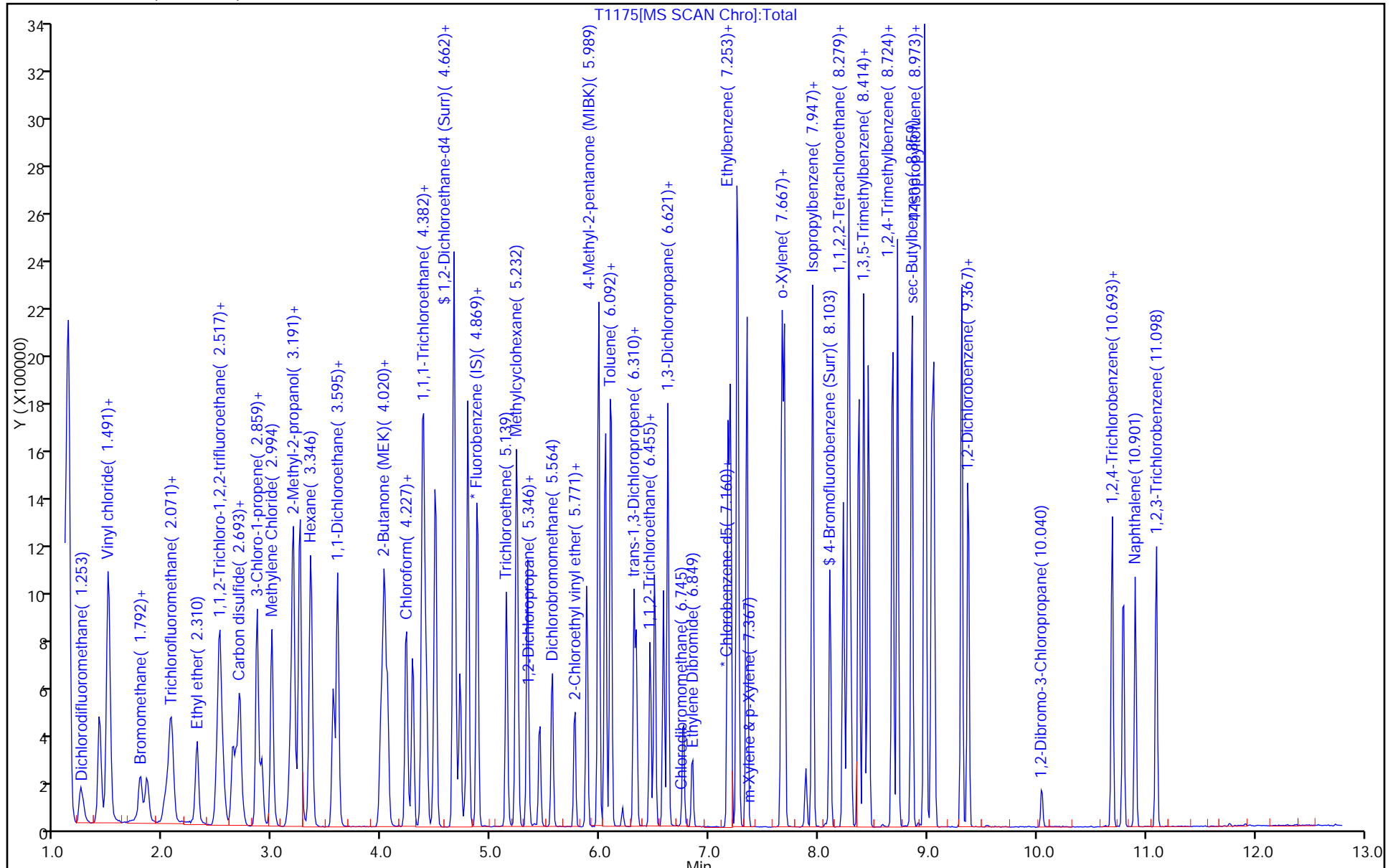
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-384962/3 Calibration Date: 11/01/2017 09:54
 Instrument ID: HP5975T Calib Start Date: 10/19/2017 16:57
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 10/19/2017 19:42
 Lab File ID: T1230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.591	1.491	0.1000	23.4	25.0	-6.3	50.0
Chloromethane	Ave	3.708	3.249	0.1000	21.9	25.0	-12.4	20.0
Butadiene	Ave	2.964	2.523		21.3	25.0	-14.9	20.0
Vinyl chloride	Ave	2.337	2.040	0.1000	21.8	25.0	-12.7	20.0
Bromomethane	Ave	0.9914	0.9042	0.1000	22.8	25.0	-8.8	50.0
Chloroethane	Ave	1.032	0.9696	0.1000	23.5	25.0	-6.0	50.0
Trichlorofluoromethane	Ave	1.926	1.878	0.1000	24.4	25.0	-2.5	20.0
Dichlorofluoromethane	Ave	2.422	2.302		23.8	25.0	-5.0	20.0
Ethyl ether	Ave	1.459	1.165		20.0	25.0	-20.2*	20.0
Acrolein	Ave	0.3524	0.2496		88.5	125	-29.2	50.0
1,1-Dichloroethene	Ave	1.040	0.9901	0.1000	23.8	25.0	-4.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.086	1.032	0.1000	23.8	25.0	-5.0	20.0
Acetone	Ave	0.5042	0.5674	0.1000	141	125	12.5	50.0
Iodomethane	Ave	1.675	1.582		23.6	25.0	-5.5	20.0
Carbon disulfide	Ave	4.027	3.504	0.1000	21.8	25.0	-13.0	20.0
Allyl chloride	Ave	3.811	3.287		21.6	25.0	-13.8	20.0
Methyl acetate	Ave	1.613	1.167	0.1000	36.2	50.0	-27.7	50.0
Methylene Chloride	Lin1		1.211	0.1000	21.2	25.0	-15.3	20.0
2-Methyl-2-propanol	Ave	0.1084	0.1194		275	250	10.2	50.0
Methyl tert-butyl ether	Ave	3.512	2.795	0.1000	19.9	25.0	-20.4*	20.0
trans-1,2-Dichloroethene	Ave	1.228	1.149	0.1000	23.4	25.0	-6.5	20.0
Acrylonitrile	Ave	0.7174	0.5714		199	250	-20.4*	20.0
Hexane	Ave	3.094	2.551		20.6	25.0	-17.6	20.0
1,1-Dichloroethane	Ave	2.916	2.646	0.2000	22.7	25.0	-9.2	20.0
Vinyl acetate	Ave	4.603	3.737		40.6	50.0	-18.8	20.0
2,2-Dichloropropane	Ave	1.871	1.792		23.9	25.0	-4.2	20.0
cis-1,2-Dichloroethene	Ave	1.469	1.256	0.1000	21.4	25.0	-14.5	20.0
2-Butanone (MEK)	Ave	0.8568	0.7756	0.1000	113	125	-9.5	20.0
Chlorobromomethane	Ave	0.5997	0.5504		22.9	25.0	-8.2	20.0
Tetrahydrofuran	Ave	0.5965	0.4741		39.7	50.0	-20.5*	20.0
Chloroform	Ave	2.242	2.027	0.2000	22.6	25.0	-9.6	20.0
1,1,1-Trichloroethane	Ave	1.813	1.640	0.1000	22.6	25.0	-9.6	20.0
Cyclohexane	Ave	3.682	3.194	0.1000	21.7	25.0	-13.3	20.0
1,1-Dichloropropene	Ave	1.718	1.583		23.0	25.0	-7.8	20.0
Carbon tetrachloride	Ave	1.334	1.420	0.1000	26.6	25.0	6.5	20.0
Benzene	Ave	5.013	4.578	0.5000	22.8	25.0	-8.7	20.0
Isobutyl alcohol	Ave	0.0570	0.0654		717	625	14.8	50.0
1,2-Dichloroethane	Ave	2.442	1.963	0.1000	20.1	25.0	-19.6	20.0
n-Heptane	Ave	3.881	3.358		21.6	25.0	-13.5	20.0
Trichloroethene	Ave	1.267	1.190	0.2000	23.5	25.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-384962/3 Calibration Date: 11/01/2017 09:54
 Instrument ID: HP5975T Calib Start Date: 10/19/2017 16:57
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 10/19/2017 19:42
 Lab File ID: T1230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.136	1.953	0.1000	22.9	25.0	-8.5	20.0
1,2-Dichloropropane	Ave	1.720	1.470	0.1000	21.4	25.0	-14.5	20.0
1,4-Dioxane	Ave	0.0020	0.0022		559	500	11.8	50.0
Dibromomethane	Ave	0.8149	0.6736	0.1000	20.7	25.0	-17.3	20.0
Bromodichloromethane	Ave	1.531	1.443	0.2000	23.6	25.0	-5.8	20.0
2-Chloroethyl vinyl ether	Ave	0.9869	0.7867		19.9	25.0	-20.3*	20.0
cis-1,3-Dichloropropene	Ave	1.913	1.748	0.2000	22.8	25.0	-8.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5786	0.4491	0.1000	97.0	125	-22.4*	20.0
Toluene	Ave	0.9405	0.8398	0.4000	22.3	25.0	-10.7	20.0
trans-1,3-Dichloropropene	Ave	0.5247	0.4540	0.1000	21.6	25.0	-13.5	20.0
Ethyl methacrylate	Ave	0.4226	0.3364		19.9	25.0	-20.4*	20.0
1,1,2-Trichloroethane	Ave	0.2777	0.2299	0.1000	20.7	25.0	-17.2	20.0
Tetrachloroethene	Ave	0.3280	0.3000	0.2000	22.9	25.0	-8.5	20.0
1,3-Dichloropropane	Ave	0.5865	0.4845		20.7	25.0	-17.4	20.0
2-Hexanone	Ave	0.3817	0.3250	0.1000	106	125	-14.9	20.0
Dibromochloromethane	Ave	0.2570	0.2762	0.1000	26.9	25.0	7.5	20.0
1,2-Dibromoethane	Ave	0.3049	0.2523		20.7	25.0	-17.3	20.0
Chlorobenzene	Ave	1.041	0.9023	0.5000	21.7	25.0	-13.3	20.0
Ethylbenzene	Ave	1.825	1.565	0.1000	21.4	25.0	-14.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2844	0.2927		25.7	25.0	2.9	20.0
m,p-Xylene	Ave	0.6340	0.5894	0.1000	23.2	25.0	-7.0	20.0
o-Xylene	Ave	0.6330	0.5674	0.3000	22.4	25.0	-10.4	20.0
Styrene	Ave	1.052	0.9784	0.3000	23.2	25.0	-7.0	20.0
Bromoform	Ave	0.1116	0.1269	0.1000	28.4	25.0	13.7	50.0
Isopropylbenzene	Ave	3.371	2.977	0.1000	22.1	25.0	-11.7	20.0
Bromobenzene	Ave	0.7677	0.6872		22.4	25.0	-10.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8037	0.6764	0.3000	21.0	25.0	-15.9	20.0
N-Propylbenzene	Ave	4.575	4.080		22.3	25.0	-10.8	20.0
1,2,3-Trichloropropane	Ave	0.2351	0.1902		20.2	25.0	-19.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3521	0.3066		21.8	25.0	-12.9	50.0
2-Chlorotoluene	Ave	0.7997	0.7289		22.8	25.0	-8.8	20.0
1,3,5-Trimethylbenzene	Ave	2.974	2.632		22.1	25.0	-11.5	20.0
4-Chlorotoluene	Ave	2.891	2.610		22.6	25.0	-9.7	20.0
tert-Butylbenzene	Ave	0.6017	0.5722		23.8	25.0	-4.9	20.0
1,2,4-Trimethylbenzene	Ave	3.117	2.835		22.7	25.0	-9.0	20.0
sec-Butylbenzene	Ave	3.712	3.398		22.9	25.0	-8.5	20.0
4-Isopropyltoluene	Ave	3.023	2.942		24.3	25.0	-2.7	20.0
1,3-Dichlorobenzene	Ave	1.630	1.461	0.6000	22.4	25.0	-10.3	20.0
1,4-Dichlorobenzene	Ave	1.657	1.457	0.5000	22.0	25.0	-12.1	20.0
n-Butylbenzene	Ave	3.300	2.958		22.4	25.0	-10.4	20.0
1,2-Dichlorobenzene	Ave	1.605	1.376	0.4000	21.4	25.0	-14.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-384962/3 Calibration Date: 11/01/2017 09:54
 Instrument ID: HP5975T Calib Start Date: 10/19/2017 16:57
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 10/19/2017 19:42
 Lab File ID: T1230.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1056	0.0500	18.2	25.0	-27.2	50.0
1,2,4-Trichlorobenzene	Ave	0.996	0.9077	0.2000	22.8	25.0	-8.9	20.0
Hexachlorobutadiene	Ave	0.4119	0.3972		24.1	25.0	-3.6	20.0
Naphthalene	Ave	2.425	1.998		20.6	25.0	-17.6	20.0
1,2,3-Trichlorobenzene	Ave	0.9525	0.8011		21.0	25.0	-15.9	20.0
Dibromofluoromethane (Surr)	Ave	1.115	1.103		24.7	25.0	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.716	1.623		23.6	25.0	-5.4	20.0
Toluene-d8 (Surr)	Ave	1.303	1.184		22.7	25.0	-9.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3138	0.2882		23.0	25.0	-8.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1230.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Nov-2017 09:54:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0066898-003
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 11:21:48 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: reiler

Date: 01-Nov-2017 10:18:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	205868	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	691647	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	329330	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	226975	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	334136	25.0	23.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	818681	25.0	22.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	78	199310	25.0	23.0	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	98	307045	25.0	23.4	
13 Chloromethane	50	1.408	1.408	0.000	99	668889	25.0	21.9	
151 Butadiene	54	1.481	1.481	0.000	95	519377	25.0	21.3	
14 Vinyl chloride	62	1.491	1.491	0.000	90	419976	25.0	21.8	
15 Bromomethane	94	1.781	1.781	0.000	93	186147	25.0	22.8	
16 Chloroethane	64	1.843	1.843	0.000	94	199610	25.0	23.5	
17 Trichlorofluoromethane	101	2.061	2.061	0.000	63	386570	25.0	24.4	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	95	473879	25.0	23.8	
19 Ethyl ether	59	2.310	2.310	0.000	94	239782	25.0	20.0	
21 Acrolein	56	2.486	2.486	0.000	100	256890	125.0	88.5	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	90	203825	25.0	23.8	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.517	0.000	92	212531	25.0	23.8	
23 Acetone	43	2.631	2.631	0.000	98	584057	125.0	140.7	
24 Iodomethane	142	2.662	2.662	0.000	98	325734	25.0	23.6	
25 Carbon disulfide	76	2.693	2.693	0.000	99	721352	25.0	21.8	
27 3-Chloro-1-propene	41	2.849	2.849	0.000	89	676631	25.0	21.6	
28 Methyl acetate	43	2.900	2.900	0.000	98	480364	50.0	36.2	
30 Methylene Chloride	84	2.994	2.994	0.000	88	249276	25.0	21.2	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	98	245858	250.0	275.4	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	95	575325	25.0	19.9	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	90	236450	25.0	23.4	
34 Acrylonitrile	53	3.242	3.242	0.000	98	1176238	250.0	199.1	
35 Hexane	57	3.346	3.346	0.000	96	525245	25.0	20.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	544728	25.0	22.7	
39 Vinyl acetate	43	3.595	3.595	0.000	96	1538774	50.0	40.6	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	88	368954	25.0	23.9	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	89	258494	25.0	21.4	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	798322	125.0	113.1	
48 Tetrahydrofuran	42	4.227	4.227	0.000	93	195215	50.0	39.7	
47 Chlorobromomethane	128	4.227	4.227	0.000	82	113317	25.0	22.9	
50 Chloroform	83	4.279	4.279	0.000	95	417231	25.0	22.6	M
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	93	337646	25.0	22.6	
52 Cyclohexane	56	4.372	4.372	0.000	91	657441	25.0	21.7	
53 Carbon tetrachloride	117	4.486	4.486	0.000	97	292364	25.0	26.6	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	87	325915	25.0	23.0	
56 Isobutyl alcohol	43	4.662	4.662	0.000	93	336506	625.0	717.3	
55 Benzene	78	4.662	4.662	0.000	91	942547	25.0	22.8	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	404211	25.0	20.1	
59 n-Heptane	43	4.786	4.786	0.000	94	691294	25.0	21.6	
60 Trichloroethene	95	5.139	5.139	0.000	93	245080	25.0	23.5	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	402114	25.0	22.9	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	90	302650	25.0	21.4	
66 1,4-Dioxane	88	5.439	5.439	0.000	42	30866	500.0	558.9	
65 Dibromomethane	93	5.450	5.450	0.000	90	138664	25.0	20.7	
67 Dichlorobromomethane	83	5.564	5.564	0.000	96	296994	25.0	23.6	
69 2-Chloroethyl vinyl ether	63	5.771	5.771	0.000	83	161965	25.0	19.9	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	85	359957	25.0	22.8	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	1553087	125.0	97.0	
73 Toluene	92	6.103	6.103	0.000	97	580812	25.0	22.3	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	314032	25.0	21.6	
77 Ethyl methacrylate	69	6.331	6.331	0.000	90	232671	25.0	19.9	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	158987	25.0	20.7	
79 Tetrachloroethene	166	6.507	6.507	0.000	91	207460	25.0	22.9	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	93	335069	25.0	20.7	
81 2-Hexanone	43	6.621	6.621	0.000	97	1123850	125.0	106.4	
82 Chlorodibromomethane	129	6.766	6.766	0.000	90	191057	25.0	26.9	
83 Ethylene Dibromide	107	6.849	6.849	0.000	97	174483	25.0	20.7	
86 Chlorobenzene	112	7.191	7.191	0.000	90	624085	25.0	21.7	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1082348	25.0	21.4	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	91	202428	25.0	25.7	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	407655	25.0	23.2	
91 o-Xylene	106	7.667	7.667	0.000	98	392412	25.0	22.4	
92 Styrene	104	7.688	7.688	0.000	92	676680	25.0	23.2	
93 Bromoform	173	7.885	7.885	0.000	92	87749	25.0	28.4	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	980259	25.0	22.1	
97 Bromobenzene	156	8.227	8.227	0.000	94	226298	25.0	22.4	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	93	222742	25.0	21.0	
99 N-Propylbenzene	91	8.279	8.279	0.000	100	1343709	25.0	22.3	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	89	62642	25.0	20.2	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	81	100974	25.0	21.8	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	240057	25.0	22.8	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	94	866737	25.0	22.1	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	859430	25.0	22.6	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	188430	25.0	23.8	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	933669	25.0	22.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	1118912	25.0	22.9	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	968828	25.0	24.3	
110 1,3-Dichlorobenzene	146	8.983	8.983	0.000	95	481212	25.0	22.4	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	479720	25.0	22.0	
115 n-Butylbenzene	91	9.315	9.315	0.000	99	974095	25.0	22.4	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	95	453166	25.0	21.4	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	70	34792	25.0	18.2	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	92	298930	25.0	22.8	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	92	130818	25.0	24.1	
121 Naphthalene	128	10.901	10.901	0.000	97	657960	25.0	20.6	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	91	263841	25.0	21.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1230.D

Injection Date: 01-Nov-2017 09:54:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

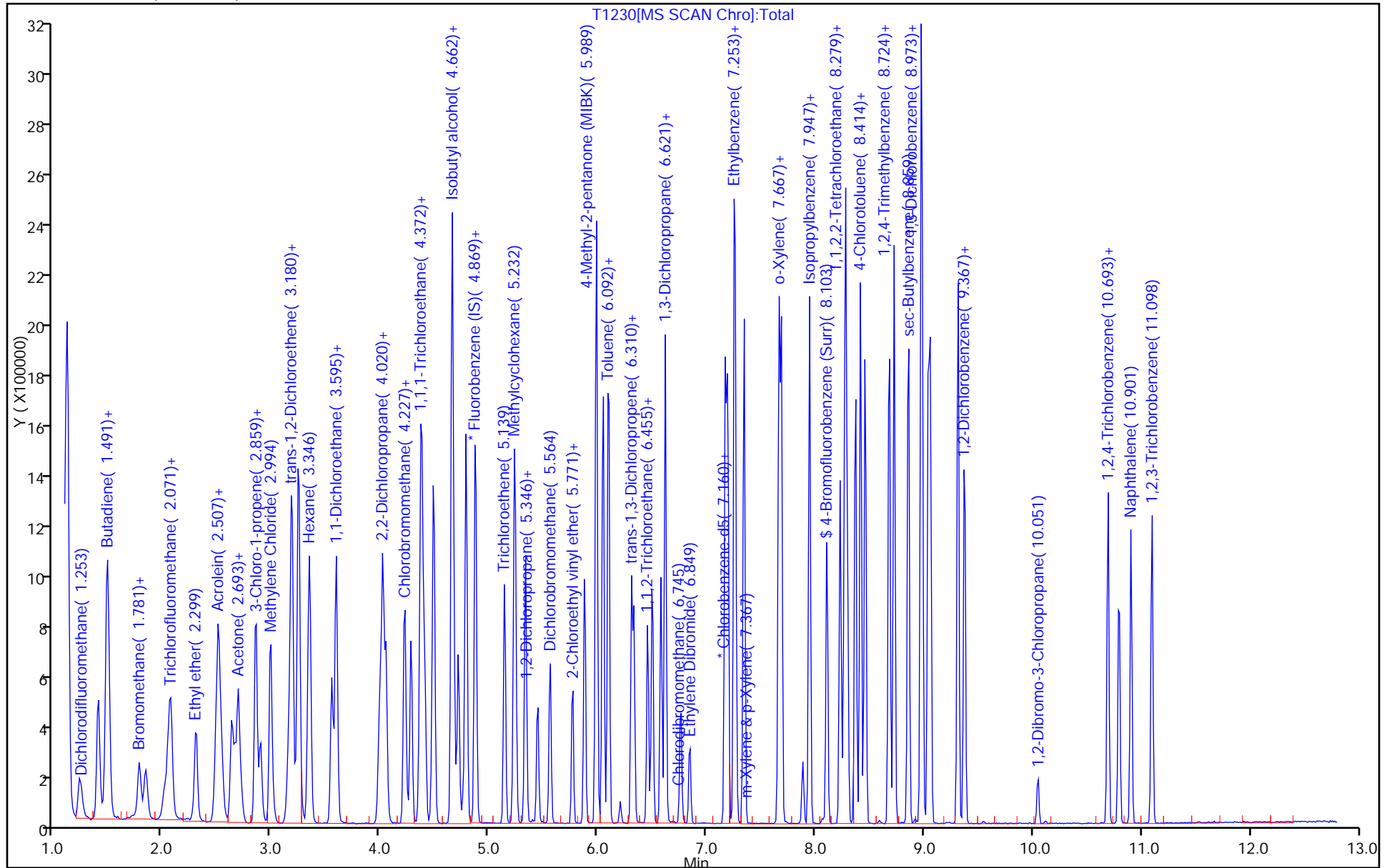
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

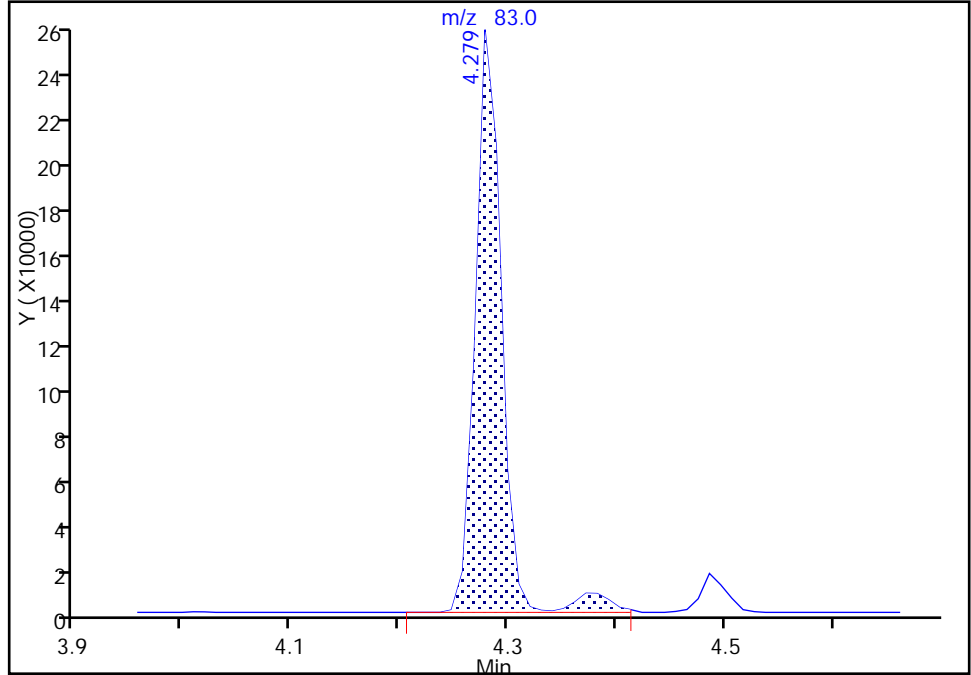
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1230.D
Injection Date: 01-Nov-2017 09:54:30 Instrument ID: HP5975T
Lims ID: CCVIS
Client ID:
Operator ID: RR ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

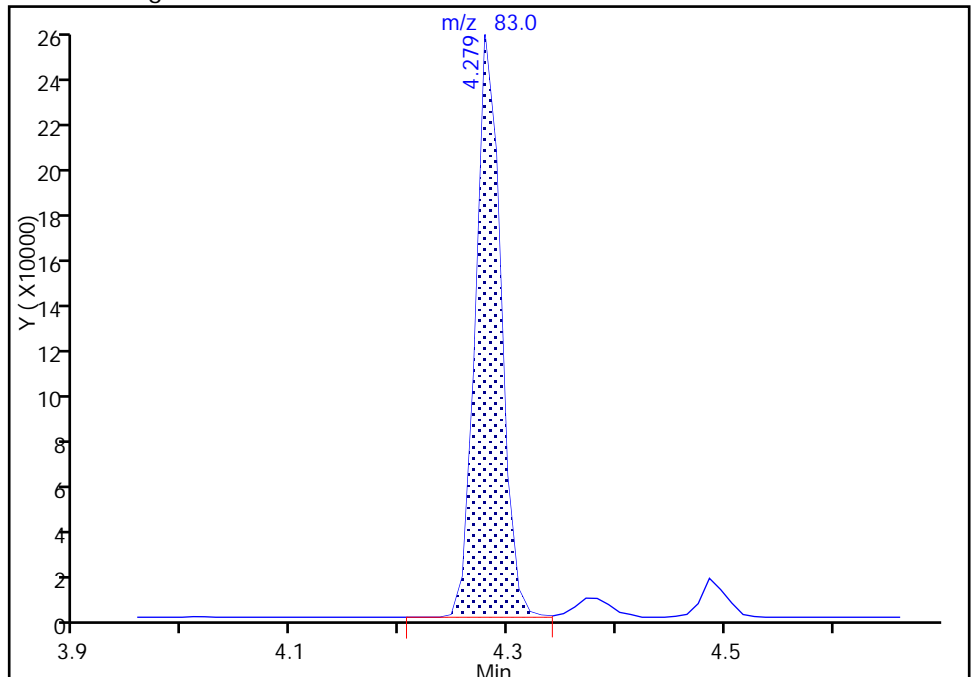
RT: 4.28
Area: 437067
Amount: 23.669246
Amount Units: ug/L

Processing Integration Results



RT: 4.28
Area: 417231
Amount: 22.595032
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 01-Nov-2017 10:17:57
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0525.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 19-Oct-2017 16:09:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0066541-004
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Oct-2017 13:26:10 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK048

First Level Reviewer: reiler Date: 19-Oct-2017 16:54:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.571	5.571	0.000	78	416091	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

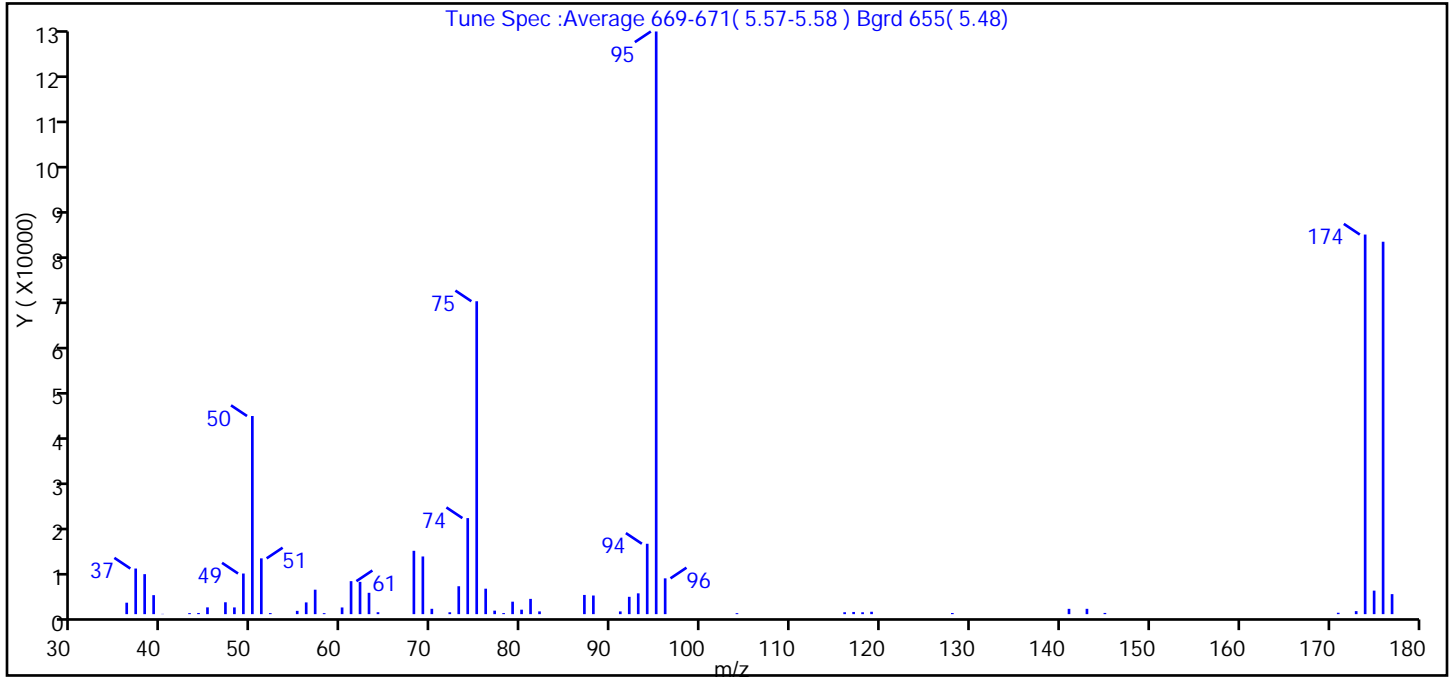
Reagents:

BFB_WRK_00065 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0525.D
 Injection Date: 19-Oct-2017 16:09:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: RR ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	34.0
75	30 to 60% of m/z 95	53.7
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	0.5 (0.8)
174	50 to 120% of m/z 95	65.1
175	5 to 9% of m/z 174	4.0 (6.2)
176	Greater than 95% but less than 101% of m/z 174	63.9 (98.1)
177	5 to 9% of m/z 176	3.4 (5.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0525.D\T-8260.rslt\spectra.d
Injection Date: 19-Oct-2017 16:09:30
Spectrum: Tune Spec :Average 669-671(5.57-5.58) Bgrd 655(5.48)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2500	56.00	2564	76.00	5559	104.00	215
37.00	9961	57.00	5340	77.00	766	116.00	417
38.00	8734	58.00	216	78.00	234	117.00	478
39.00	4149	60.00	1459	79.00	2722	118.00	411
40.00	58	61.00	7204	80.00	974	119.00	521
43.00	226	62.00	7049	81.00	3333	128.00	246
44.00	254	63.00	4660	82.00	600	141.00	1159
45.00	1480	64.00	420	87.00	4195	143.00	1165
47.00	2593	68.00	13836	88.00	4069	145.00	265
48.00	1469	69.00	12596	91.00	594	171.00	304
49.00	8873	70.00	1167	92.00	3787	173.00	660
50.00	43272	72.00	409	93.00	4544	174.00	82904
51.00	12183	73.00	6094	94.00	15371	175.00	5136
52.00	228	74.00	20976	95.00	127256	176.00	81336
55.00	718	75.00	68336	96.00	7818	177.00	4373

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1172.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 31-Oct-2017 08:11:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0066859-001
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 17:06:02 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler Date: 31-Oct-2017 08:20:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.559	5.559	0.000	76	203374	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

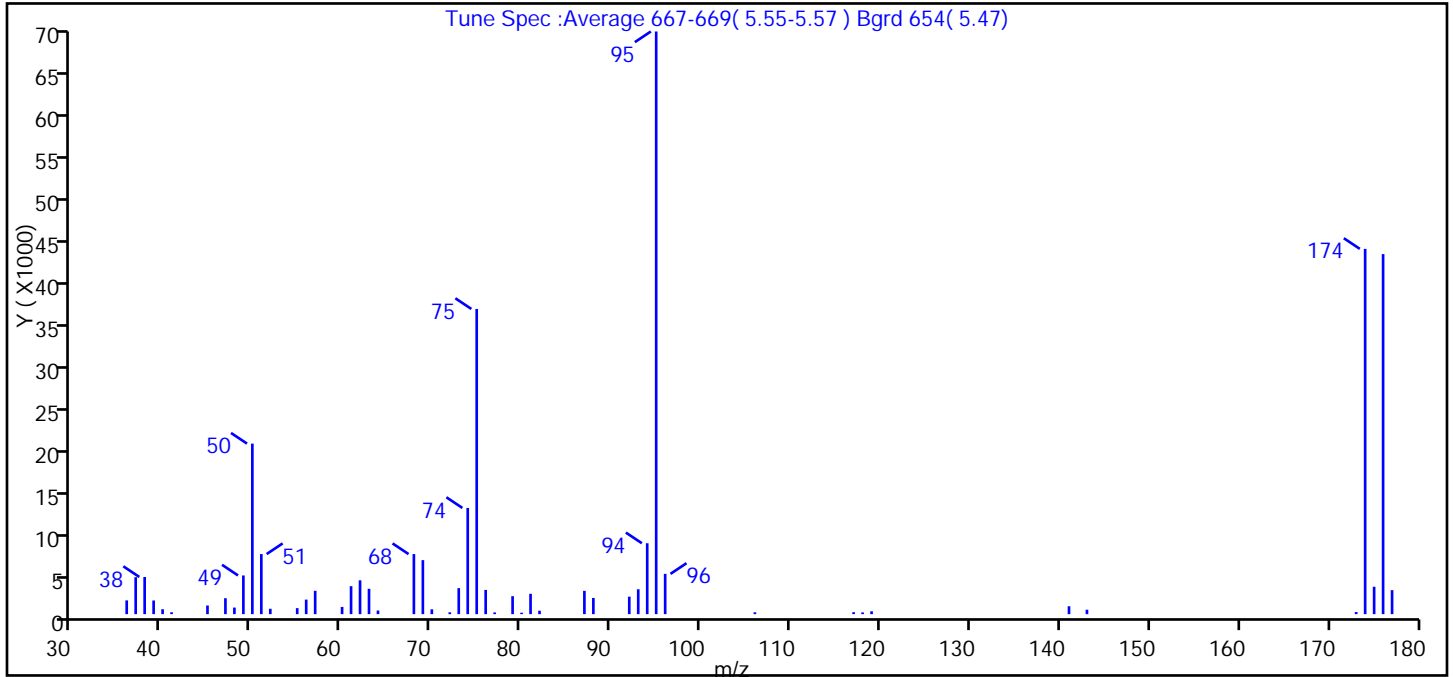
Reagents:

BFB_WRK_00065 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1172.D
 Injection Date: 31-Oct-2017 08:11:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: RR ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	29.3
75	30 to 60% of m/z 95	52.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.6)
174	50 to 120% of m/z 95	62.7
175	5 to 9% of m/z 174	4.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	61.8 (98.6)
177	5 to 9% of m/z 176	4.1 (6.7)

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1172.D\T-8260.rsl\spectra.d
Injection Date: 31-Oct-2017 08:11:30
Spectrum: Tune Spec :Average 667-669(5.55-5.57) Bgrd 654(5.47)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1640	55.00	716	74.00	12669	95.00	69512
37.00	4407	56.00	1736	75.00	36408	96.00	4806
38.00	4434	57.00	2786	76.00	2891	106.00	220
39.00	1629	60.00	859	77.00	205	117.00	233
40.00	585	61.00	3337	79.00	2143	118.00	208
41.00	225	62.00	4036	80.00	173	119.00	339
45.00	1030	63.00	3024	81.00	2428	141.00	939
47.00	1899	64.00	433	82.00	411	143.00	529
48.00	785	68.00	7166	87.00	2782	173.00	252
49.00	4615	69.00	6442	88.00	1932	174.00	43576
50.00	20344	70.00	577	92.00	2087	175.00	3268
51.00	7168	72.00	218	93.00	2969	176.00	42952
52.00	641	73.00	3101	94.00	8459	177.00	2861

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1229.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Nov-2017 09:26:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0066898-002
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 09:39:31 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: reiler Date: 01-Nov-2017 09:39:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.571	5.571	0.000	79	391736	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

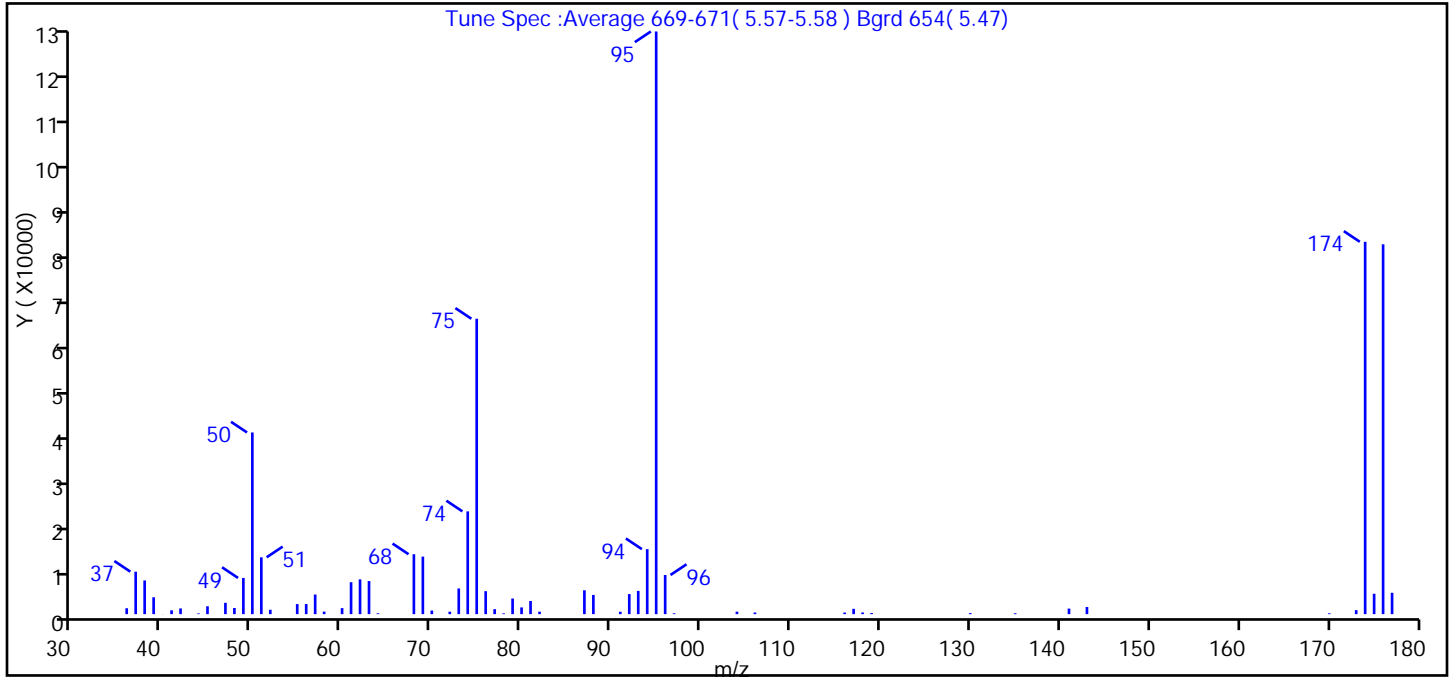
Reagents:

BFB_WRK_00065 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1229.D
 Injection Date: 01-Nov-2017 09:26:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: RR ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	31.2
75	30 to 60% of m/z 95	50.7
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.7 (1.1)
174	50 to 120% of m/z 95	63.9
175	5 to 9% of m/z 174	3.5 (5.5)
176	Greater than 95% but less than 101% of m/z 174	63.5 (99.3)
177	5 to 9% of m/z 176	3.7 (5.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1229.D\T-8260.rsl\spectra.d
Injection Date: 01-Nov-2017 09:26:30
Spectrum: Tune Spec :Average 669-671(5.57-5.58) Bgrd 654(5.47)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1259	56.00	2151	77.00	1061	106.00	350
37.00	9036	57.00	4178	78.00	171	116.00	342
38.00	7168	58.00	543	79.00	3327	117.00	1133
39.00	3591	60.00	1284	80.00	1432	118.00	357
40.00	17	61.00	6797	81.00	2804	119.00	242
41.00	814	62.00	7401	82.00	524	130.00	224
42.00	1216	63.00	7043	87.00	5080	135.00	193
44.00	149	64.00	179	88.00	4089	141.00	1187
45.00	1678	68.00	12750	91.00	510	143.00	1521
47.00	2408	69.00	12240	92.00	4269	170.00	176
48.00	1307	70.00	766	93.00	4944	173.00	849
49.00	7704	72.00	526	94.00	13830	174.00	79240
50.00	38664	73.00	5463	95.00	124000	175.00	4339
51.00	12096	74.00	21872	96.00	8335	176.00	78704
52.00	937	75.00	62864	97.00	172	177.00	4544
55.00	2145	76.00	4890	104.00	537		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-384727/7
 Matrix: Water Lab File ID: T1178.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 10:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-384727/7
 Matrix: Water Lab File ID: T1178.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 10:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-384727/7
 Matrix: Water Lab File ID: T1178.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 10:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1178.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 31-Oct-2017 10:35:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0066859-007
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 17:19:14 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler Date: 31-Oct-2017 13:32:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	96	183202	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	606592	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	283588	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	213819	25.0	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	296695	25.0	23.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	765571	25.0	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	186252	25.0	24.5	
11 Dichlorodifluoromethane	85		1.242					ND	
12 Chlorodifluoromethane	51		1.253					ND	
13 Chloromethane	50		1.408					ND	
151 Butadiene	54		1.491					ND	
14 Vinyl chloride	62		1.501					ND	
15 Bromomethane	94		1.792					ND	
16 Chloroethane	64		1.854					ND	
17 Trichlorofluoromethane	101		2.061					ND	
18 Dichlorofluoromethane	67		2.071					ND	
19 Ethyl ether	59		2.310					ND	
148 Ethanol	45		2.341					ND	
84 Propene oxide	58		2.393					ND	
21 Acrolein	56		2.486					ND	
22 1,1-Dichloroethene	96		2.517					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.527					ND	
23 Acetone	43		2.631					ND	
24 Iodomethane	142		2.662					ND	
25 Carbon disulfide	76		2.703					ND	
26 Isopropyl alcohol	45		2.807					ND	
27 3-Chloro-1-propene	41		2.859					ND	
28 Methyl acetate	43		2.900					ND	
29 Acetonitrile	40		2.921					ND	
30 Methylene Chloride	84		2.994					ND	
31 2-Methyl-2-propanol	59		3.159					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Methyl tert-butyl ether	73		3.180					ND	
32 trans-1,2-Dichloroethene	96		3.191					ND	
34 Acrylonitrile	53		3.253					ND	
37 Isopropyl ether	45		3.553					ND	
36 1,1-Dichloroethane	63		3.553					ND	
39 Vinyl acetate	43		3.595					ND	
139 Halothane	117		3.595					ND	
38 2-Chloro-1,3-butadiene	53		3.595					ND	
40 1,1-Dimethoxyethane	75		3.626					ND	
41 Tert-butyl ethyl ether	59		3.843					ND	
42 2,2-Dichloropropane	77		3.999					ND	
43 cis-1,2-Dichloroethene	96		4.030					ND	
44 2-Butanone (MEK)	43		4.051					ND	
45 Ethyl acetate	43		4.071					ND	
46 Propionitrile	54		4.144					ND	
47 Chlorobromomethane	128		4.216					ND	
49 Methacrylonitrile	41		4.227					ND	
48 Tetrahydrofuran	42		4.227					ND	
50 Chloroform	83		4.279					ND	
51 1,1,1-Trichloroethane	97		4.372					ND	
52 Cyclohexane	56		4.382					ND	
53 Carbon tetrachloride	117		4.486					ND	
54 1,1-Dichloropropene	75		4.496					ND	
152 Isooctane	57		4.641					ND	
56 Isobutyl alcohol	43		4.652					ND	
55 Benzene	78		4.662					ND	
58 Tert-amyl methyl ether	73		4.714					ND	
147 t-Amyl alcohol	59		4.724					ND	
59 n-Heptane	43		4.786					ND	
1 1,4-Difluorobenzene	114		4.952					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.046					ND	
60 Trichloroethene	95		5.139					ND	
61 n-Butanol	56		5.160					ND	
62 Methylcyclohexane	83		5.232					ND	
142 Ethyl acrylate	55		5.232					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.232					ND	
63 1,2-Dichloropropane	63		5.336					ND	
64 Methyl methacrylate	41		5.398					ND	
66 1,4-Dioxane	88		5.439					ND	
65 Dibromomethane	93		5.450					ND	
67 Dichlorobromomethane	83		5.564					ND	
68 2-Nitropropane	43		5.761					ND	
69 2-Chloroethyl vinyl ether	63		5.771					ND	
70 Epichlorohydrin	57		5.843					ND	
71 cis-1,3-Dichloropropene	75		5.875					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989					ND	
73 Toluene	92		6.103					ND	
74 2-Methylthiophene	97		6.206					ND	
75 trans-1,3-Dichloropropene	75		6.310					ND	
77 Ethyl methacrylate	69		6.331					ND	
76 3-Methylthiophene	97		6.331					ND	
78 1,1,2-Trichloroethane	83		6.455					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
79 Tetrachloroethene	166		6.496					ND	
80 1,3-Dichloropropane	76		6.579					ND	
81 2-Hexanone	43		6.621					ND	
155 n-Butyl acetate	43		6.693					ND	
82 Chlorodibromomethane	129		6.766					ND	
83 Ethylene Dibromide	107		6.849					ND	
146 1-Chlorohexane	55		7.139					ND	
85 3-Chlorobenzotrifluoride	180		7.160					ND	
86 Chlorobenzene	112		7.191					ND	
87 4-Chlorobenzotrifluoride	180		7.201					ND	
88 Ethylbenzene	91		7.253					ND	
89 1,1,1,2-Tetrachloroethane	131		7.263					ND	
90 m-Xylene & p-Xylene	106		7.346					ND	
91 o-Xylene	106		7.667					ND	
92 Styrene	104		7.688					ND	
94 2-Chlorobenzotrifluoride	180		7.885					ND	
93 Bromoform	173		7.885					ND	
95 Isopropylbenzene	105		7.947					ND	
97 Bromobenzene	156		8.227					ND	
98 1,1,2,2-Tetrachloroethane	83		8.258					ND	
99 N-Propylbenzene	91		8.279					ND	
100 1,2,3-Trichloropropane	110		8.289					ND	
101 trans-1,4-Dichloro-2-buten	53		8.300					ND	
105 2-Chlorotoluene	126		8.372					ND	
104 1,3,5-Trimethylbenzene	105		8.414					ND	
103 3-Chlorotoluene	126		8.424					ND	
102 4-Chlorotoluene	91		8.455					ND	
106 tert-Butylbenzene	134		8.683					ND	
107 1,2,4-Trimethylbenzene	105		8.724					ND	
108 Pentachloroethane	167		8.735					ND	
109 sec-Butylbenzene	105		8.859					ND	
111 4-Isopropyltoluene	119		8.973					ND	
110 1,3-Dichlorobenzene	146		8.983					ND	
112 Dicyclopentadiene	66		9.035					ND	
113 1,4-Dichlorobenzene	146		9.056					ND	
114 1,2,3-Trimethylbenzene	105		9.077					ND	
150 Benzyl chloride	126		9.191					ND	
115 n-Butylbenzene	91		9.315					ND	
116 1,2-Dichlorobenzene	146		9.367					ND	
117 1,2-Dibromo-3-Chloropropan	75		10.040					ND	
118 1,3,5-Trichlorobenzene	180		10.165					ND	
119 1,2,4-Trichlorobenzene	180		10.693					ND	
120 Hexachlorobutadiene	225		10.797					ND	
121 Naphthalene	128		10.901					ND	
122 1,2,3-Trichlorobenzene	180		11.098					ND	
149 2-Methylnaphthalene	142		11.771					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
135 Hexachloroethane	117		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 Methyl acrylate	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		1.500					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 134 1-Bromopropane	1		0.000					ND	
T 131 tert-amyl alcohol TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 Pentachloroethane TIC	1		0.000					ND	
T 132 bis(chloromethyl)ether TIC	1		0.000					ND	

Reagents:

T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1178.D

Injection Date: 31-Oct-2017 10:35:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

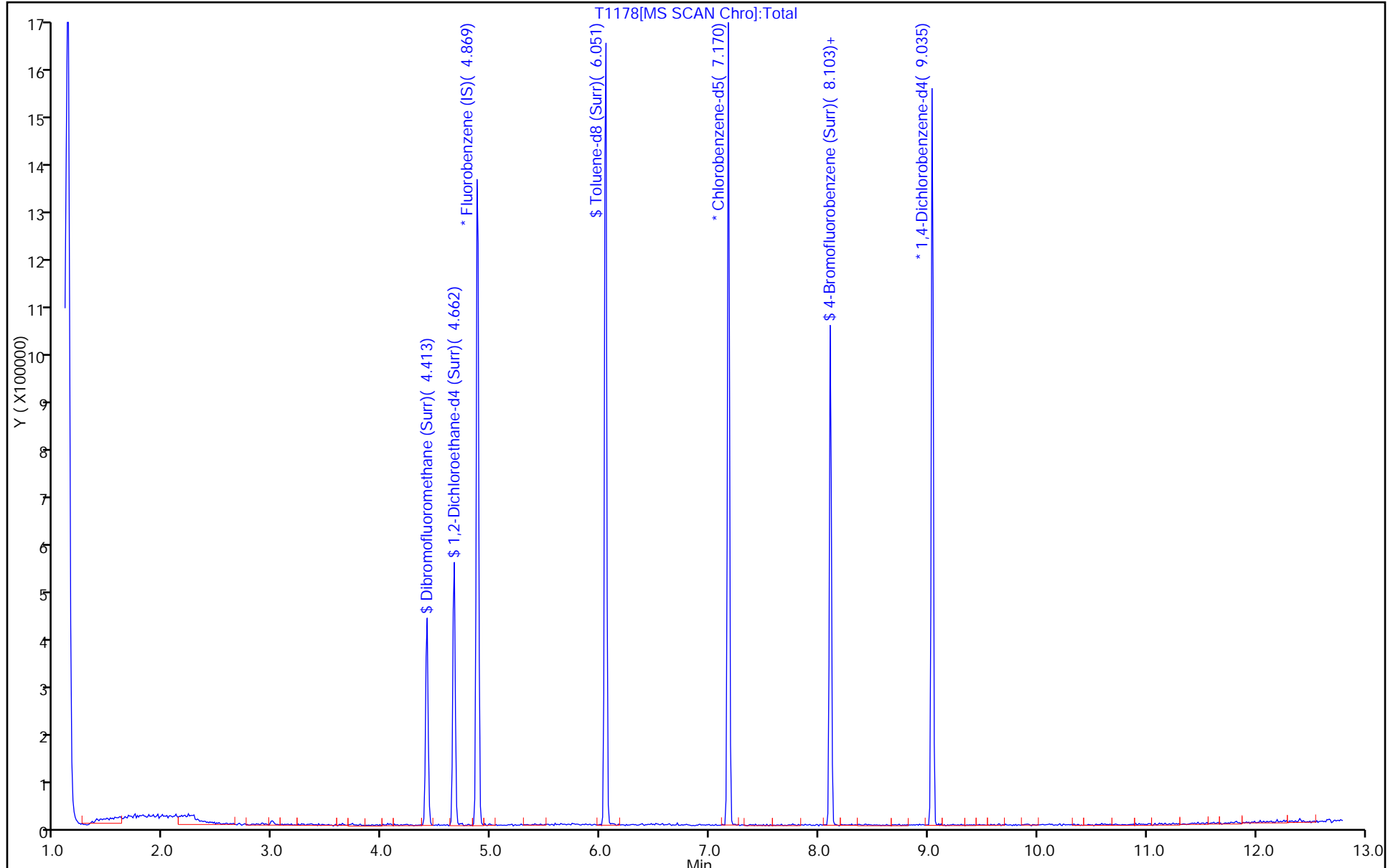
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-384962/7
 Matrix: Water Lab File ID: T1234.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-384962/7
 Matrix: Water Lab File ID: T1234.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-384962/7
 Matrix: Water Lab File ID: T1234.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 11:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1234.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Nov-2017 11:29:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0066898-007
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 12:22:19 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: reiler Date: 01-Nov-2017 12:27:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	174768	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	586982	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	280930	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	204738	25.0	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	297661	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	759545	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	182474	25.0	24.8	
11 Dichlorodifluoromethane	85		1.232					ND	
12 Chlorodifluoromethane	51		1.253					ND	
13 Chloromethane	50		1.408					ND	
151 Butadiene	54		1.481					ND	
14 Vinyl chloride	62		1.491					ND	
15 Bromomethane	94		1.781					ND	
16 Chloroethane	64		1.843					ND	
17 Trichlorofluoromethane	101		2.061					ND	
18 Dichlorofluoromethane	67		2.071					ND	
19 Ethyl ether	59		2.310					ND	
148 Ethanol	45		2.331					ND	
84 Propene oxide	58		2.393					ND	
21 Acrolein	56		2.486					ND	
22 1,1-Dichloroethene	96		2.507					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.517					ND	
23 Acetone	43		2.631					ND	
24 Iodomethane	142		2.662					ND	
26 Isopropyl alcohol	45		2.807					ND	
27 3-Chloro-1-propene	41		2.849					ND	
28 Methyl acetate	43		2.900					ND	
29 Acetonitrile	40		2.921					ND	
31 2-Methyl-2-propanol	59		3.149					ND	
33 Methyl tert-butyl ether	73		3.180					ND	
32 trans-1,2-Dichloroethene	96		3.191					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 Acrylonitrile	53		3.242					ND	
36 1,1-Dichloroethane	63		3.553					ND	
37 Isopropyl ether	45		3.553					ND	
139 Halothane	117		3.595					ND	
39 Vinyl acetate	43		3.595					ND	
38 2-Chloro-1,3-butadiene	53		3.595					ND	
40 1,1-Dimethoxyethane	75		3.626					ND	
41 Tert-butyl ethyl ether	59		3.844					ND	
42 2,2-Dichloropropane	77		3.999					ND	
43 cis-1,2-Dichloroethene	96		4.020					ND	
44 2-Butanone (MEK)	43		4.051					ND	
45 Ethyl acetate	43		4.072					ND	
46 Propionitrile	54		4.144					ND	
47 Chlorobromomethane	128		4.227					ND	
48 Tetrahydrofuran	42		4.227					ND	
49 Methacrylonitrile	41		4.227					ND	
52 Cyclohexane	56		4.372					ND	
51 1,1,1-Trichloroethane	97		4.372					ND	
54 1,1-Dichloropropene	75		4.486					ND	
53 Carbon tetrachloride	117		4.486					ND	
152 Isooctane	57		4.641					ND	
55 Benzene	78		4.662					ND	
56 Isobutyl alcohol	43		4.662					ND	
147 t-Amyl alcohol	59		4.714					ND	
58 Tert-amyl methyl ether	73		4.714					ND	
59 n-Heptane	43		4.786					ND	
1 1,4-Difluorobenzene	114		4.952					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.046					ND	
60 Trichloroethene	95		5.139					ND	
61 n-Butanol	56		5.160					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.232					ND	
62 Methylcyclohexane	83		5.232					ND	
142 Ethyl acrylate	55		5.232					ND	
63 1,2-Dichloropropane	63		5.336					ND	
64 Methyl methacrylate	41		5.398					ND	
66 1,4-Dioxane	88	5.450	5.439	0.011	1	422		9.00	M
65 Dibromomethane	93		5.450					ND	
67 Dichlorobromomethane	83		5.564					ND	
68 2-Nitropropane	43		5.750					ND	
69 2-Chloroethyl vinyl ether	63		5.771					ND	
70 Epichlorohydrin	57		5.844					ND	
71 cis-1,3-Dichloropropene	75		5.875					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.989					ND	
73 Toluene	92		6.103					ND	
74 2-Methylthiophene	97		6.206					ND	
75 trans-1,3-Dichloropropene	75		6.310					ND	
77 Ethyl methacrylate	69		6.331					ND	
76 3-Methylthiophene	97		6.331					ND	
78 1,1,2-Trichloroethane	83		6.455					ND	
79 Tetrachloroethene	166		6.507					ND	
80 1,3-Dichloropropane	76		6.579					ND	
81 2-Hexanone	43		6.621					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43		6.693					ND	
82 Chlorodibromomethane	129		6.766					ND	
83 Ethylene Dibromide	107		6.849					ND	
146 1-Chlorohexane	55		7.139					ND	
85 3-Chlorobenzotrifluoride	180		7.160					ND	
86 Chlorobenzene	112		7.191					ND	
87 4-Chlorobenzotrifluoride	180		7.201					ND	
88 Ethylbenzene	91		7.253					ND	
89 1,1,1,2-Tetrachloroethane	131		7.263					ND	
90 m-Xylene & p-Xylene	106		7.346					ND	
91 o-Xylene	106		7.667					ND	
92 Styrene	104		7.688					ND	
93 Bromoform	173		7.885					ND	
94 2-Chlorobenzotrifluoride	180		7.885					ND	
95 Isopropylbenzene	105		7.947					ND	
97 Bromobenzene	156		8.227					ND	
98 1,1,2,2-Tetrachloroethane	83		8.258					ND	
99 N-Propylbenzene	91		8.279					ND	
100 1,2,3-Trichloropropane	110		8.289					ND	
101 trans-1,4-Dichloro-2-buten	53		8.300					ND	
105 2-Chlorotoluene	126		8.372					ND	
104 1,3,5-Trimethylbenzene	105		8.414					ND	
103 3-Chlorotoluene	126		8.424					ND	
102 4-Chlorotoluene	91		8.455					ND	
106 tert-Butylbenzene	134		8.683					ND	
107 1,2,4-Trimethylbenzene	105		8.724					ND	
108 Pentachloroethane	167		8.735					ND	
109 sec-Butylbenzene	105		8.859					ND	
111 4-Isopropyltoluene	119		8.973					ND	
110 1,3-Dichlorobenzene	146		8.983					ND	
112 Dicyclopentadiene	66		9.035					ND	
113 1,4-Dichlorobenzene	146		9.056					ND	
114 1,2,3-Trimethylbenzene	105		9.077					ND	
150 Benzyl chloride	126		9.181					ND	
115 n-Butylbenzene	91		9.315					ND	
116 1,2-Dichlorobenzene	146		9.367					ND	
117 1,2-Dibromo-3-Chloropropan	75		10.051					ND	
118 1,3,5-Trichlorobenzene	180		10.165					ND	
119 1,2,4-Trichlorobenzene	180		10.693					ND	
121 Naphthalene	128		10.901					ND	
122 1,2,3-Trichlorobenzene	180		11.098					ND	
149 2-Methylnaphthalene	142		11.771					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		1.500					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 134 1-Bromopropane	1		0.000					ND	
T 131 tert-amyl alcohol TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 Pentachloroethane TIC	1		0.000					ND	
T 132 bis(chloromethyl)ether TIC	1		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1234.D

Injection Date: 01-Nov-2017 11:29:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

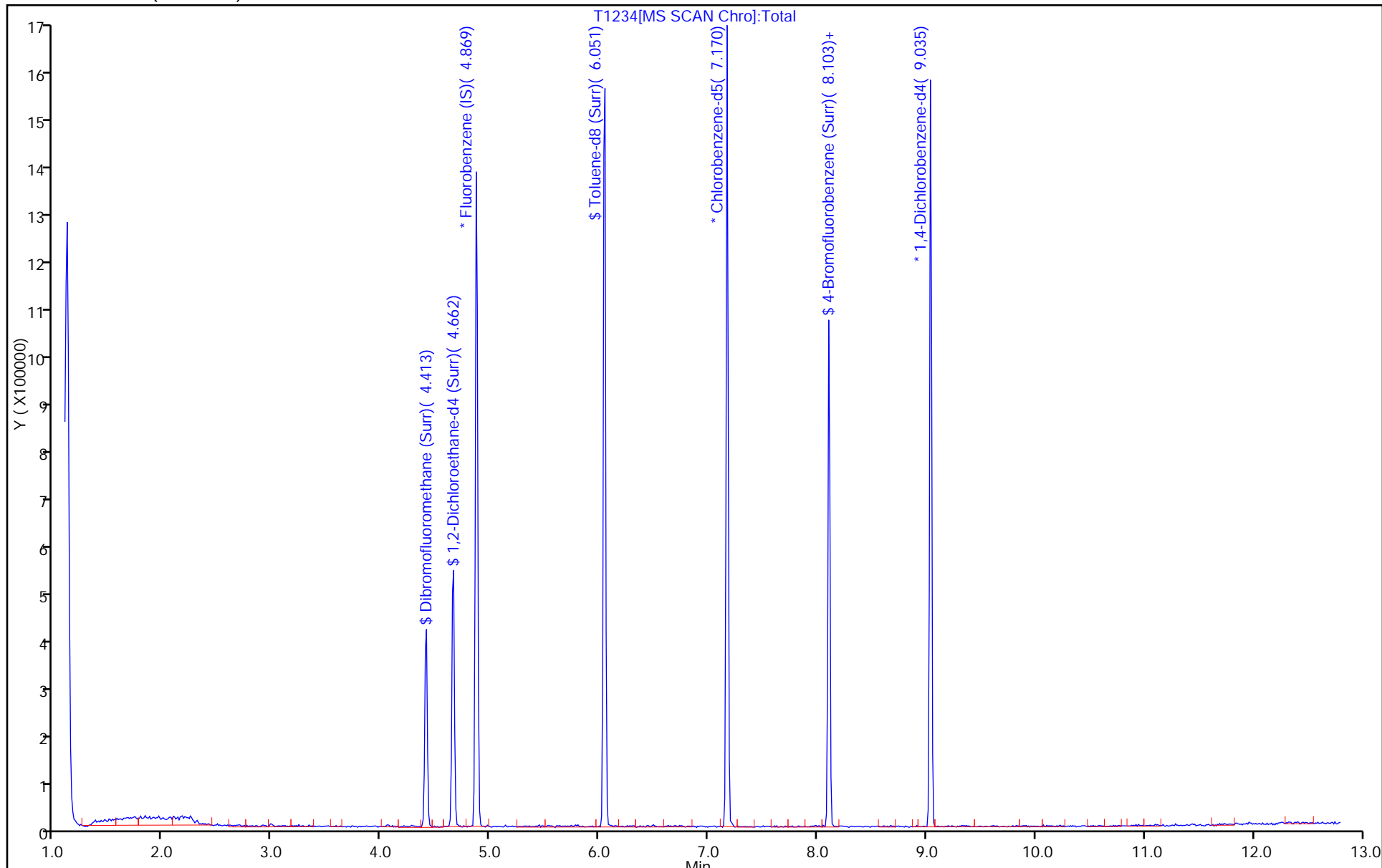
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-384727/4
 Matrix: Water Lab File ID: T1176.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 09:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	22.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.6		1.0	0.31
75-34-3	1,1-Dichloroethane	24.1		1.0	0.38
75-35-4	1,1-Dichloroethene	25.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.7		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.6		1.0	0.79
107-06-2	1,2-Dichloroethane	20.6		1.0	0.21
78-87-5	1,2-Dichloropropane	24.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.4		1.0	0.84
78-93-3	2-Butanone (MEK)	106		10	1.3
591-78-6	2-Hexanone	104		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	94.9		5.0	2.1
67-64-1	Acetone	132		10	3.0
71-43-2	Benzene	24.8		1.0	0.41
75-27-4	Bromodichloromethane	26.1		1.0	0.39
75-25-2	Bromoform	30.8		1.0	0.26
74-83-9	Bromomethane	23.6		1.0	0.69
75-15-0	Carbon disulfide	23.7		1.0	0.19
56-23-5	Carbon tetrachloride	30.2		1.0	0.27
108-90-7	Chlorobenzene	25.3		1.0	0.75
124-48-1	Dibromochloromethane	29.4		1.0	0.32
75-00-3	Chloroethane	23.9		1.0	0.32
67-66-3	Chloroform	24.5		1.0	0.34
74-87-3	Chloromethane	21.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.2		1.0	0.36
110-82-7	Cyclohexane	24.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.5		1.0	0.68
100-41-4	Ethylbenzene	25.1		1.0	0.74
106-93-4	1,2-Dibromoethane	22.0		1.0	0.73
98-82-8	Isopropylbenzene	25.4		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-384727/4
 Matrix: Water Lab File ID: T1176.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 09:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	34.7		2.5	1.3
1634-04-4	Methyl tert-butyl ether	20.4		1.0	0.16
108-87-2	Methylcyclohexane	25.1		1.0	0.16
75-09-2	Methylene Chloride	21.3		1.0	0.44
100-42-5	Styrene	25.8		1.0	0.73
127-18-4	Tetrachloroethene	25.8		1.0	0.36
108-88-3	Toluene	24.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	22.9		1.0	0.37
79-01-6	Trichloroethene	24.9		1.0	0.46
75-69-4	Trichlorofluoromethane	24.2		1.0	0.88
75-01-4	Vinyl chloride	21.1		1.0	0.90
1330-20-7	Xylenes, Total	51.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1176.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-Oct-2017 09:48:30 ALS Bottle#: 5 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0066859-004
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 10:05:48 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: reiler

Date: 31-Oct-2017 10:05:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	188335	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	614490	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	299296	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	90	212764	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	285882	25.0	22.1	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	789111	25.0	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	78	180260	25.0	23.4	
11 Dichlorodifluoromethane	85	1.242	1.242	0.000	98	269161	25.0	22.5	
13 Chloromethane	50	1.419	1.408	0.011	99	606172	25.0	21.7	
151 Butadiene	54	1.491	1.491	0.000	96	470595	25.0	21.1	
14 Vinyl chloride	62	1.501	1.501	0.000	96	370950	25.0	21.1	
15 Bromomethane	94	1.792	1.792	0.000	93	176346	25.0	23.6	
16 Chloroethane	64	1.843	1.854	-0.011	93	185582	25.0	23.9	
17 Trichlorofluoromethane	101	2.071	2.061	0.010	62	351212	25.0	24.2	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	95	422080	25.0	23.1	
19 Ethyl ether	59	2.310	2.310	0.000	88	229986	25.0	20.9	
21 Acrolein	56	2.496	2.486	0.010	98	226701	125.0	85.4	
22 1,1-Dichloroethene	96	2.517	2.517	0.000	90	196477	25.0	25.1	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	52	209408	25.0	25.6	
23 Acetone	43	2.641	2.631	0.010	99	499686	125.0	131.5	
24 Iodomethane	142	2.672	2.662	0.010	97	317822	25.0	25.2	
25 Carbon disulfide	76	2.704	2.703	0.001	98	717872	25.0	23.7	
27 3-Chloro-1-propene	41	2.859	2.859	0.000	88	689609	25.0	24.0	
28 Methyl acetate	43	2.900	2.900	0.000	99	421195	50.0	34.7	
30 Methylene Chloride	84	2.994	2.994	0.000	87	228983	25.0	21.3	
31 2-Methyl-2-propanol	59	3.149	3.159	-0.010	99	199970	250.0	244.9	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	92	538624	25.0	20.4	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	89	233430	25.0	25.2	
34 Acrylonitrile	53	3.253	3.253	0.000	96	995766	250.0	184.3	
35 Hexane	57	3.346	3.346	0.000	94	532082	25.0	22.8	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	530196	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.595	3.595	0.000	96	1470531	50.0	42.4	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	89	372809	25.0	26.4	
43 cis-1,2-Dichloroethene	96	4.030	4.030	0.000	87	269597	25.0	24.4	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	95	683973	125.0	106.0	
47 Chlorobromomethane	128	4.227	4.216	0.011	80	106705	25.0	23.6	
48 Tetrahydrofuran	42	4.237	4.227	0.010	95	158161	50.0	35.2	
50 Chloroform	83	4.289	4.279	0.010	95	414539	25.0	24.5	M
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	73	360974	25.0	26.4	
52 Cyclohexane	56	4.382	4.382	0.000	93	668839	25.0	24.1	
53 Carbon tetrachloride	117	4.486	4.486	0.000	95	303924	25.0	30.2	
54 1,1-Dichloropropene	75	4.496	4.496	0.000	87	321258	25.0	24.8	
56 Isobutyl alcohol	43	4.662	4.652	0.010	40	288596	625.0	672.5	
55 Benzene	78	4.662	4.662	0.000	90	938425	25.0	24.8	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	378616	25.0	20.6	
59 n-Heptane	43	4.787	4.786	0.001	94	736937	25.0	25.2	
60 Trichloroethene	95	5.139	5.139	0.000	92	238188	25.0	24.9	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	403912	25.0	25.1	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	91	317383	25.0	24.5	
66 1,4-Dioxane	88	5.439	5.439	0.000	1	28489	500.0	580.6	M
65 Dibromomethane	93	5.450	5.450	0.000	88	135626	25.0	22.1	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	301289	25.0	26.1	
69 2-Chloroethyl vinyl ether	63	5.771	5.771	0.000	84	148346	25.0	20.0	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	87	363132	25.0	25.2	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	1350248	125.0	94.9	
73 Toluene	92	6.103	6.103	0.000	97	569588	25.0	24.6	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	294710	25.0	22.9	
77 Ethyl methacrylate	69	6.331	6.331	0.000	88	211668	25.0	20.4	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	94	150637	25.0	22.1	
79 Tetrachloroethene	166	6.496	6.496	0.000	91	208249	25.0	25.8	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	92	307961	25.0	21.4	
81 2-Hexanone	43	6.621	6.621	0.000	98	975732	125.0	104.0	
82 Chlorodibromomethane	129	6.766	6.766	0.000	87	185922	25.0	29.4	
83 Ethylene Dibromide	107	6.849	6.849	0.000	98	164922	25.0	22.0	
86 Chlorobenzene	112	7.191	7.191	0.000	91	646692	25.0	25.3	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1126719	25.0	25.1	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	92	207568	25.0	29.7	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	398542	25.0	25.6	
91 o-Xylene	106	7.667	7.667	0.000	99	397088	25.0	25.5	
92 Styrene	104	7.688	7.688	0.000	91	666263	25.0	25.8	
93 Bromoform	173	7.885	7.885	0.000	92	84392	25.0	30.8	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	1025263	25.0	25.4	
97 Bromobenzene	156	8.227	8.227	0.000	94	218705	25.0	23.8	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	93	200843	25.0	20.9	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	1340681	25.0	24.5	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	90	62008	25.0	22.0	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.300	0.000	73	79762	25.0	18.9	
105 2-Chlorotoluene	126	8.372	8.372	0.000	94	230146	25.0	24.0	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	95	891240	25.0	25.0	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	860776	25.0	24.9	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	193582	25.0	26.9	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	928508	25.0	24.9	
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	1132910	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	979952	25.0	27.1	
110 1,3-Dichlorobenzene	146	8.984	8.983	0.001	95	488583	25.0	25.0	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	483610	25.0	24.4	
115 n-Butylbenzene	91	9.315	9.315	0.000	98	1002328	25.0	25.4	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	93	452902	25.0	23.6	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.040	0.001	67	33939	25.0	19.5	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	283054	25.0	23.7	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	92	132565	25.0	26.9	
121 Naphthalene	128	10.901	10.901	0.000	97	592725	25.0	20.4	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	93	250337	25.0	22.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1176.D

Injection Date: 31-Oct-2017 09:48:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

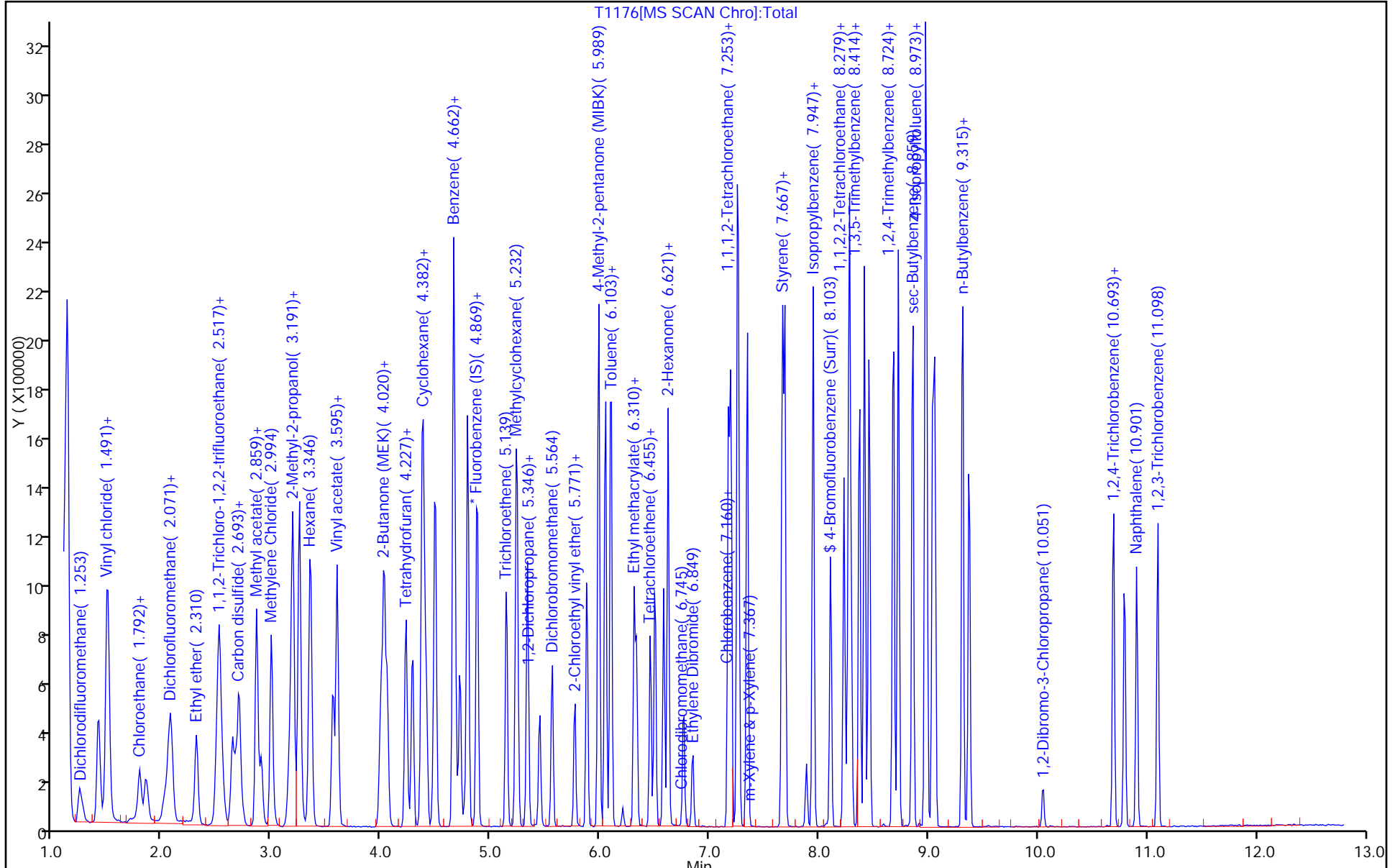
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

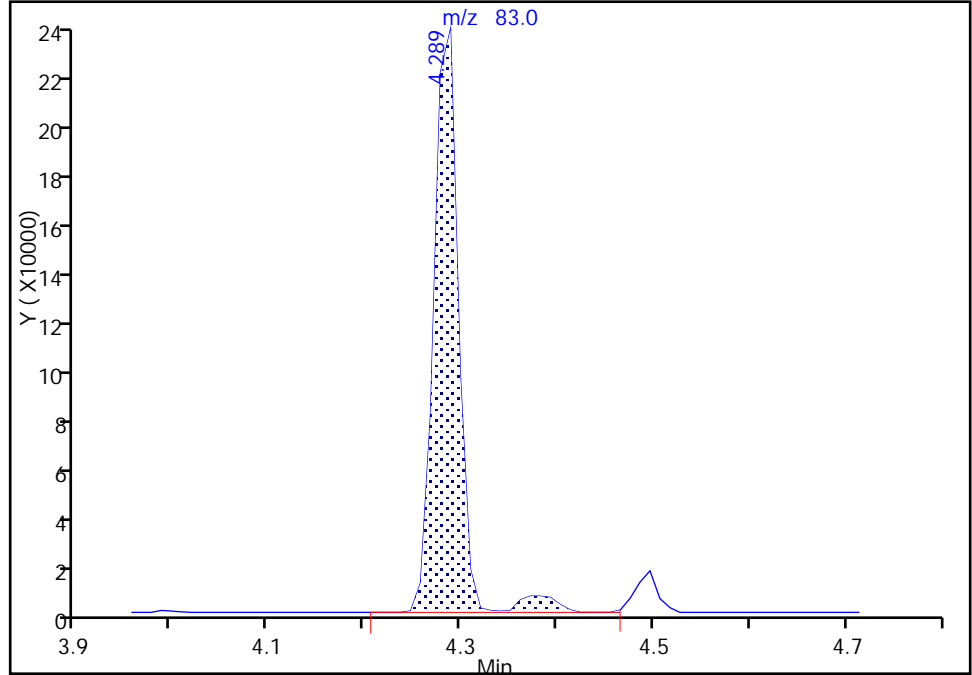
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1176.D
Injection Date: 31-Oct-2017 09:48:30 Instrument ID: HP5975T
Lims ID: LCS
Client ID:
Operator ID: RR ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

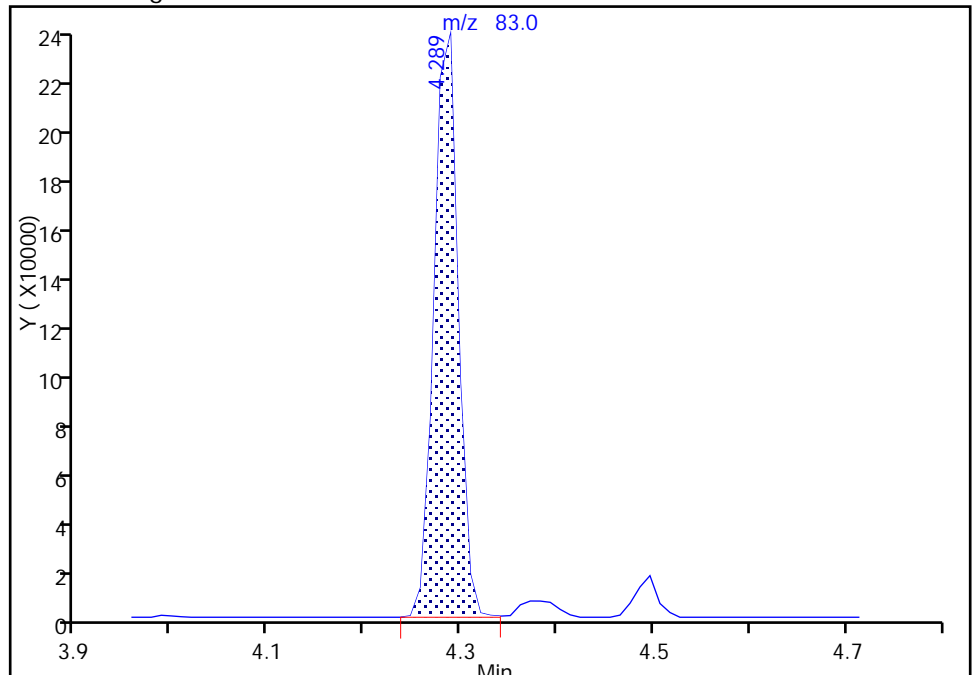
RT: 4.29
Area: 433229
Amount: 25.645533
Amount Units: ug/L

Processing Integration Results



RT: 4.29
Area: 414539
Amount: 24.539155
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 31-Oct-2017 10:04:07
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-384962/5
 Matrix: Water Lab File ID: T1232.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 10:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.1		1.0	0.21
79-00-5	1,1,2-Trichloroethane	21.5		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.0		1.0	0.31
75-34-3	1,1-Dichloroethane	24.6		1.0	0.38
75-35-4	1,1-Dichloroethene	24.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.7		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.7		1.0	0.79
107-06-2	1,2-Dichloroethane	23.0		1.0	0.21
78-87-5	1,2-Dichloropropane	24.0		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.8		1.0	0.84
78-93-3	2-Butanone (MEK)	131		10	1.3
591-78-6	2-Hexanone	118		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	110		5.0	2.1
67-64-1	Acetone	167		10	3.0
71-43-2	Benzene	24.2		1.0	0.41
75-27-4	Bromodichloromethane	27.3		1.0	0.39
75-25-2	Bromoform	31.0		1.0	0.26
74-83-9	Bromomethane	22.7		1.0	0.69
75-15-0	Carbon disulfide	22.9		1.0	0.19
56-23-5	Carbon tetrachloride	29.9		1.0	0.27
108-90-7	Chlorobenzene	22.5		1.0	0.75
124-48-1	Dibromochloromethane	27.1		1.0	0.32
75-00-3	Chloroethane	25.5		1.0	0.32
67-66-3	Chloroform	24.8		1.0	0.34
74-87-3	Chloromethane	23.1		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.7		1.0	0.36
110-82-7	Cyclohexane	22.6		1.0	0.18
75-71-8	Dichlorodifluoromethane	21.3		1.0	0.68
100-41-4	Ethylbenzene	22.3		1.0	0.74
106-93-4	1,2-Dibromoethane	22.6		1.0	0.73
98-82-8	Isopropylbenzene	24.3		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-384962/5
 Matrix: Water Lab File ID: T1232.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 10:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	42.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.2		1.0	0.16
108-87-2	Methylcyclohexane	23.7		1.0	0.16
75-09-2	Methylene Chloride	23.5		1.0	0.44
100-42-5	Styrene	23.8		1.0	0.73
127-18-4	Tetrachloroethene	24.4		1.0	0.36
108-88-3	Toluene	22.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.4		1.0	0.37
79-01-6	Trichloroethene	24.3		1.0	0.46
75-69-4	Trichlorofluoromethane	25.7		1.0	0.88
75-01-4	Vinyl chloride	22.0		1.0	0.90
1330-20-7	Xylenes, Total	46.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1232.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Nov-2017 10:42:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0066898-005
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 11:02:11 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: reiler

Date: 01-Nov-2017 11:02:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	97	170835	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	607575	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	278504	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.414	-0.001	92	211985	25.0	27.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	297574	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	767167	25.0	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	8.102	8.103	-0.001	79	179189	25.0	23.5	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	98	231696	25.0	21.3	
13 Chloromethane	50	1.408	1.408	0.000	99	585472	25.0	23.1	
151 Butadiene	54	1.501	1.481	0.020	95	447167	25.0	22.1	
14 Vinyl chloride	62	1.491	1.491	0.000	98	351430	25.0	22.0	
15 Bromomethane	94	1.791	1.781	0.010	92	153947	25.0	22.7	
16 Chloroethane	64	1.854	1.843	0.011	94	179582	25.0	25.5	
17 Trichlorofluoromethane	101	2.061	2.061	0.000	76	337997	25.0	25.7	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	96	418866	25.0	25.3	
19 Ethyl ether	59	2.310	2.310	0.000	90	231709	25.0	23.2	
21 Acrolein	56	2.486	2.486	0.000	99	239606	125.0	99.5	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	90	170904	25.0	24.1	
20 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.517	0.021	96	185745	25.0	25.0	
23 Acetone	43	2.641	2.631	0.010	97	575062	125.0	166.9	
24 Iodomethane	142	2.672	2.662	0.010	99	295630	25.0	25.8	
25 Carbon disulfide	76	2.703	2.693	0.010	98	628794	25.0	22.9	
27 3-Chloro-1-propene	41	2.859	2.849	0.010	89	636963	25.0	24.5	
28 Methyl acetate	43	2.900	2.900	0.000	99	472533	50.0	42.9	
30 Methylene Chloride	84	2.994	2.994	0.000	88	228519	25.0	23.5	
31 2-Methyl-2-propanol	59	3.159	3.149	0.010	98	227337	250.0	306.9	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	92	556538	25.0	23.2	
32 trans-1,2-Dichloroethene	96	3.190	3.191	-0.001	89	211199	25.0	25.2	
34 Acrylonitrile	53	3.253	3.242	0.011	97	1144873	250.0	233.5	
35 Hexane	57	3.346	3.346	0.000	95	433246	25.0	20.5	
36 1,1-Dichloroethane	63	3.563	3.553	0.010	96	489341	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.595	3.595	0.000	96	1484447	50.0	47.2	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	89	313429	25.0	24.5	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	87	250729	25.0	25.0	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	95	769421	125.0	131.4	
47 Chlorobromomethane	128	4.227	4.227	0.000	81	102189	25.0	24.9	
48 Tetrahydrofuran	42	4.237	4.227	0.010	95	185434	50.0	45.5	
50 Chloroform	83	4.289	4.279	0.010	95	379562	25.0	24.8	
52 Cyclohexane	56	4.382	4.372	0.010	93	568360	25.0	22.6	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	93	313933	25.0	25.3	
54 1,1-Dichloropropene	75	4.496	4.486	0.010	86	293689	25.0	25.0	
53 Carbon tetrachloride	117	4.486	4.486	0.000	94	272502	25.0	29.9	
55 Benzene	78	4.662	4.662	0.000	89	829909	25.0	24.2	
56 Isobutyl alcohol	43	4.662	4.662	0.000	96	313004	625.0	804.1	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	382990	25.0	23.0	
59 n-Heptane	43	4.786	4.786	0.000	94	579705	25.0	21.9	
60 Trichloroethene	95	5.139	5.139	0.000	94	210284	25.0	24.3	
62 Methylcyclohexane	83	5.232	5.232	0.000	92	346375	25.0	23.7	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	90	282543	25.0	24.0	
66 1,4-Dioxane	88	5.439	5.439	0.000	43	28974	500.0	597.2	
65 Dibromomethane	93	5.450	5.450	0.000	90	129246	25.0	23.2	
67 Dichlorobromomethane	83	5.564	5.564	0.000	94	285726	25.0	27.3	
69 2-Chloroethyl vinyl ether	63	5.771	5.771	0.000	82	155010	25.0	23.0	
71 cis-1,3-Dichloropropene	75	5.874	5.875	-0.001	85	323034	25.0	24.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.988	5.989	-0.001	96	1546902	125.0	110.0	
73 Toluene	92	6.102	6.103	-0.001	97	515608	25.0	22.6	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	95	298426	25.0	23.4	
77 Ethyl methacrylate	69	6.330	6.331	-0.001	89	221042	25.0	21.5	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	145139	25.0	21.5	
79 Tetrachloroethene	166	6.496	6.507	-0.011	91	194517	25.0	24.4	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	94	317998	25.0	22.3	
81 2-Hexanone	43	6.621	6.621	0.000	98	1094666	125.0	118.0	
82 Chlorodibromomethane	129	6.766	6.766	0.000	89	169142	25.0	27.1	
83 Ethylene Dibromide	107	6.849	6.849	0.000	97	167771	25.0	22.6	
86 Chlorobenzene	112	7.191	7.191	0.000	90	568766	25.0	22.5	
88 Ethylbenzene	91	7.253	7.253	0.000	98	988466	25.0	22.3	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	92	183826	25.0	26.6	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	364443	25.0	23.7	
91 o-Xylene	106	7.667	7.667	0.000	98	351913	25.0	22.9	
92 Styrene	104	7.688	7.688	0.000	92	608596	25.0	23.8	
93 Bromoform	173	7.885	7.885	0.000	92	84083	25.0	31.0	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	912396	25.0	24.3	
97 Bromobenzene	156	8.227	8.227	0.000	95	207303	25.0	24.2	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	94	206853	25.0	23.1	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	1204843	25.0	23.6	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	90	57288	25.0	21.9	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.300	-0.001	72	87719	25.0	22.4	
105 2-Chlorotoluene	126	8.372	8.372	0.000	95	221437	25.0	24.9	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	94	790708	25.0	23.9	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	765512	25.0	23.8	
106 tert-Butylbenzene	134	8.683	8.683	0.000	95	174922	25.0	26.1	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	97	812106	25.0	23.4	
109 sec-Butylbenzene	105	8.859	8.859	0.000	96	1004430	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	839949	25.0	24.9	
110 1,3-Dichlorobenzene	146	8.983	8.983	0.000	94	445637	25.0	24.5	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	457414	25.0	24.8	
115 n-Butylbenzene	91	9.315	9.315	0.000	98	871525	25.0	23.7	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	94	424077	25.0	23.7	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.051	-0.011	67	34382	25.0	21.1	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	263207	25.0	23.7	
120 Hexachlorobutadiene	225	10.797	10.797	0.000	93	124808	25.0	27.2	
121 Naphthalene	128	10.901	10.901	0.000	97	623566	25.0	23.1	
122 1,2,3-Trichlorobenzene	180	11.097	11.098	-0.001	92	245339	25.0	23.1	

Reagents:

GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1232.D

Injection Date: 01-Nov-2017 10:42:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

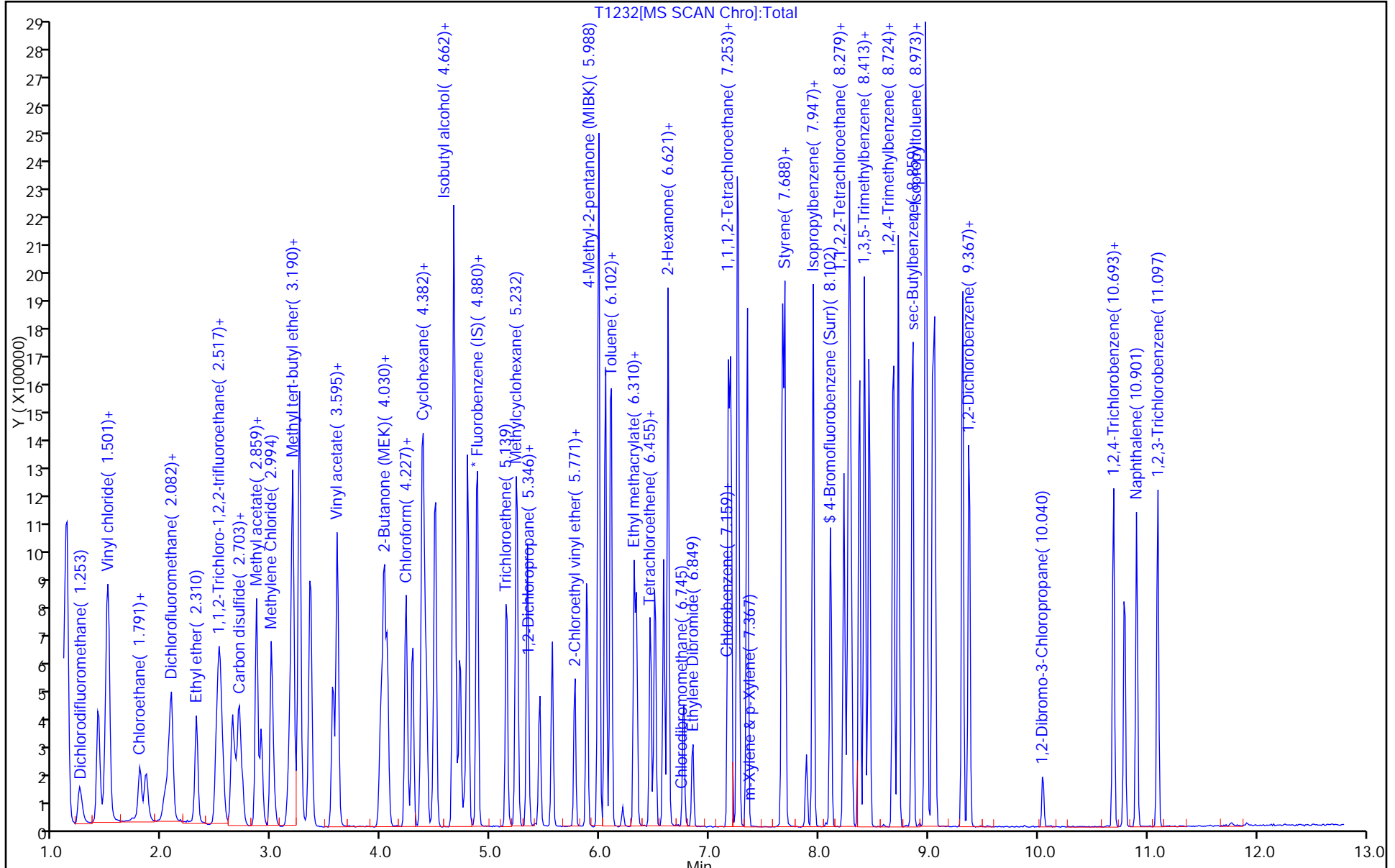
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I MS Lab Sample ID: 480-126300-2 MS
 Matrix: Water Lab File ID: T1197.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 18:19
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2990		100	82
79-34-5	1,1,2,2-Tetrachloroethane	1910		100	21
79-00-5	1,1,2-Trichloroethane	1940		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2950		100	31
75-34-3	1,1-Dichloroethane	3250		100	38
75-35-4	1,1-Dichloroethene	2240		100	29
120-82-1	1,2,4-Trichlorobenzene	2100		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	1710		100	39
95-50-1	1,2-Dichlorobenzene	2060		100	79
107-06-2	1,2-Dichloroethane	2010		100	21
78-87-5	1,2-Dichloropropane	2280		100	72
541-73-1	1,3-Dichlorobenzene	2140		100	78
106-46-7	1,4-Dichlorobenzene	2220		100	84
78-93-3	2-Butanone (MEK)	9600		1000	130
591-78-6	2-Hexanone	9110		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	8620		500	210
67-64-1	Acetone	10800		1000	300
71-43-2	Benzene	2360		100	41
75-27-4	Bromodichloromethane	2560		100	39
75-25-2	Bromoform	2740		100	26
74-83-9	Bromomethane	2400		100	69
75-15-0	Carbon disulfide	2180		100	19
56-23-5	Carbon tetrachloride	2740		100	27
108-90-7	Chlorobenzene	2170		100	75
124-48-1	Dibromochloromethane	2520		100	32
75-00-3	Chloroethane	2480		100	32
67-66-3	Chloroform	2390		100	34
74-87-3	Chloromethane	2200		100	35
156-59-2	cis-1,2-Dichloroethene	5630		100	81
10061-01-5	cis-1,3-Dichloropropene	2300		100	36
110-82-7	Cyclohexane	2090		100	18
75-71-8	Dichlorodifluoromethane	2030		100	68
100-41-4	Ethylbenzene	2170		100	74
106-93-4	1,2-Dibromoethane	1910		100	73
98-82-8	Isopropylbenzene	2170		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I MS Lab Sample ID: 480-126300-2 MS
 Matrix: Water Lab File ID: T1197.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 18:19
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	3400		250	130
1634-04-4	Methyl tert-butyl ether	1970		100	16
108-87-2	Methylcyclohexane	2120		100	16
75-09-2	Methylene Chloride	2150		100	44
100-42-5	Styrene	2240		100	73
127-18-4	Tetrachloroethene	2250		100	36
108-88-3	Toluene	2400		100	51
156-60-5	trans-1,2-Dichloroethene	2340		100	90
10061-02-6	trans-1,3-Dichloropropene	2110		100	37
79-01-6	Trichloroethene	2710		100	46
75-69-4	Trichlorofluoromethane	2310		100	88
75-01-4	Vinyl chloride	3160		100	90
1330-20-7	Xylenes, Total	4530		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1197.D
 Lims ID: 480-126300-B-2 MS
 Client ID: ML-2I
 Sample Type: MS
 Inject. Date: 31-Oct-2017 18:19:30 ALS Bottle#: 26 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-126300-b-2 ms
 Misc. Info.: 480-0066859-031
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 16:35:08 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: sonkera

Date: 31-Oct-2017 18:51:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	170860	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	602592	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	292660	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	203371	25.0	26.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	270477	25.0	23.1	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	738513	25.0	23.5	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	80	178543	25.0	23.6	
11 Dichlorodifluoromethane	85	1.242	1.242	0.000	98	220476	25.0	20.3	
13 Chloromethane	50	1.408	1.408	0.000	99	556386	25.0	22.0	
14 Vinyl chloride	62	1.491	1.501	-0.010	97	504532	25.0	31.6	
15 Bromomethane	94	1.781	1.792	-0.011	92	162418	25.0	24.0	
16 Chloroethane	64	1.843	1.854	-0.011	94	174800	25.0	24.8	
17 Trichlorofluoromethane	101	2.061	2.061	0.000	62	304558	25.0	23.1	
22 1,1-Dichloroethene	96	2.517	2.517	0.000	89	159282	25.0	22.4	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	93	219242	25.0	29.5	
23 Acetone	43	2.631	2.631	0.000	97	371067	125.0	107.7	
25 Carbon disulfide	76	2.693	2.703	-0.010	99	598667	25.0	21.8	
28 Methyl acetate	43	2.900	2.900	0.000	98	374604	50.0	34.0	
30 Methylene Chloride	84	2.994	2.994	0.000	87	210381	25.0	21.5	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	93	473063	25.0	19.7	
32 trans-1,2-Dichloroethene	96	3.190	3.191	-0.001	89	196405	25.0	23.4	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	647549	25.0	32.5	
43 cis-1,2-Dichloroethene	96	4.019	4.030	-0.011	87	565547	25.0	56.3	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	95	562147	125.0	96.0	
50 Chloroform	83	4.279	4.279	0.000	95	366047	25.0	23.9	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	94	370109	25.0	29.9	
52 Cyclohexane	56	4.372	4.382	-0.010	93	526176	25.0	20.9	
53 Carbon tetrachloride	117	4.486	4.486	0.000	95	249407	25.0	27.4	
55 Benzene	78	4.662	4.662	0.000	90	808587	25.0	23.6	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	335440	25.0	20.1	
60 Trichloroethene	95	5.139	5.139	0.000	93	234434	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.232	5.232	0.000	92	309474	25.0	21.2	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	90	267612	25.0	22.8	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	267397	25.0	25.6	
71 cis-1,3-Dichloropropene	75	5.874	5.875	-0.001	86	301398	25.0	23.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.988	5.989	-0.001	97	1201986	125.0	86.2	
73 Toluene	92	6.092	6.103	-0.011	97	543715	25.0	24.0	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	95	266939	25.0	21.1	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	92	130021	25.0	19.4	
79 Tetrachloroethene	166	6.496	6.496	0.000	92	177932	25.0	22.5	
81 2-Hexanone	43	6.621	6.621	0.000	96	837848	125.0	91.1	
82 Chlorodibromomethane	129	6.766	6.766	0.000	90	156067	25.0	25.2	
83 Ethylene Dibromide	107	6.849	6.849	0.000	99	140484	25.0	19.1	
86 Chlorobenzene	112	7.191	7.191	0.000	89	545261	25.0	21.7	
88 Ethylbenzene	91	7.253	7.253	0.000	98	953500	25.0	21.7	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	346900		22.7	
91 o-Xylene	106	7.667	7.667	0.000	99	344235		22.6	
92 Styrene	104	7.688	7.688	0.000	89	566931	25.0	22.4	
93 Bromoform	173	7.885	7.885	0.000	91	73606	25.0	27.4	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	858160	25.0	21.7	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	93	179832	25.0	19.1	
110 1,3-Dichlorobenzene	146	8.983	8.983	0.000	92	407430	25.0	21.4	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	431283	25.0	22.2	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	93	386744	25.0	20.6	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.040	0.000	65	28973	25.0	17.1	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	245168	25.0	21.0	
S 126 Xylenes, Total	1				0			45.3	

Reagents:

GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1197.D

Injection Date: 31-Oct-2017 18:19:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-B-2 MS

Worklist Smp#: 31

Client ID: ML-2I

Purge Vol: 5.000 mL

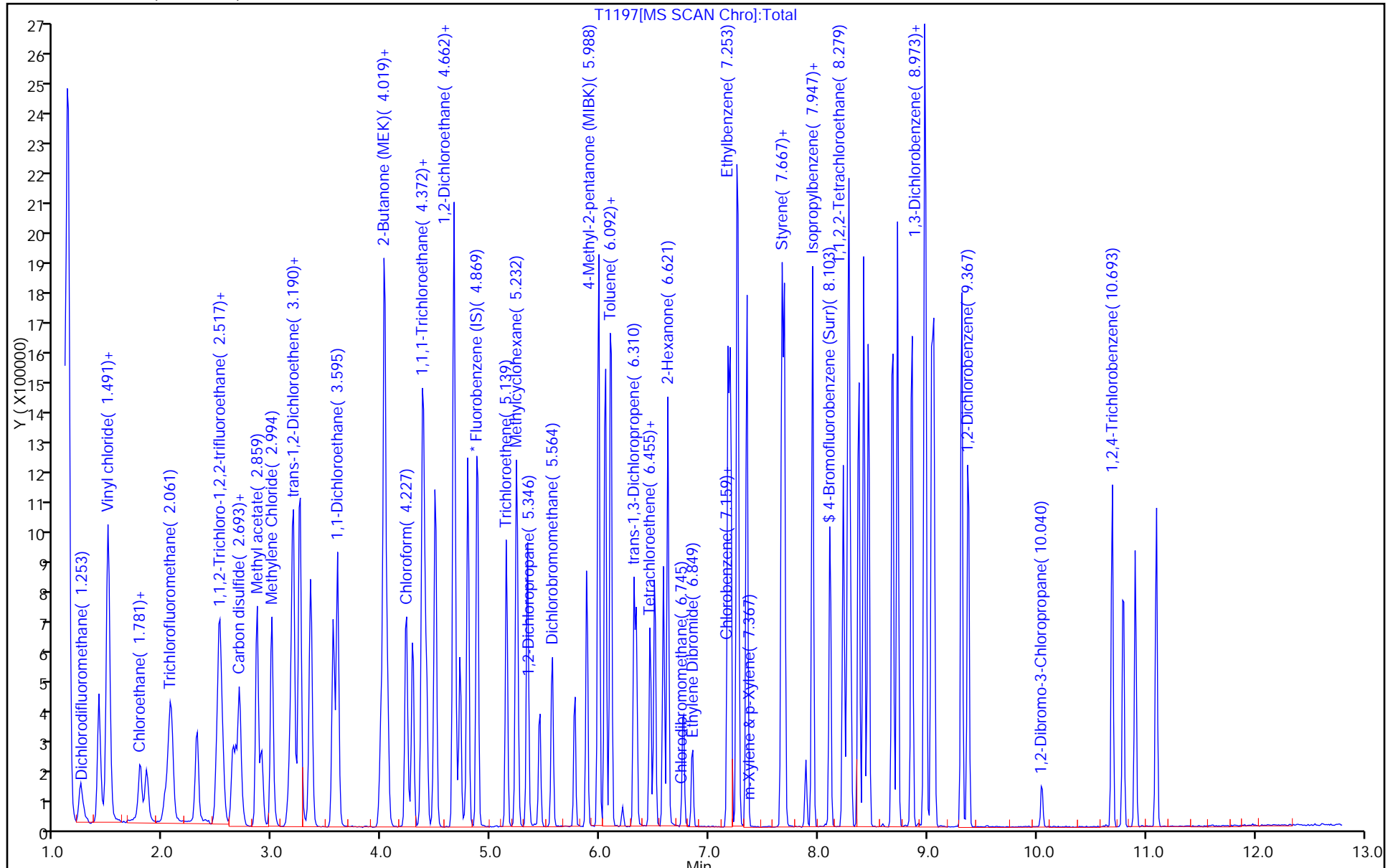
Dil. Factor: 100.0000

ALS Bottle#: 26

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I MS Lab Sample ID: 480-126300-5 MS
 Matrix: Water Lab File ID: T1253.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 19:09
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1630		50	41
79-34-5	1,1,2,2-Tetrachloroethane	1290		50	11
79-00-5	1,1,2-Trichloroethane	1160		50	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1900		50	16
75-34-3	1,1-Dichloroethane	1720		50	19
75-35-4	1,1-Dichloroethene	1590		50	15
120-82-1	1,2,4-Trichlorobenzene	1310		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	1210		50	20
95-50-1	1,2-Dichlorobenzene	1240		50	40
107-06-2	1,2-Dichloroethane	1270		50	11
78-87-5	1,2-Dichloropropane	1280		50	36
541-73-1	1,3-Dichlorobenzene	1290		50	39
106-46-7	1,4-Dichlorobenzene	1300		50	42
78-93-3	2-Butanone (MEK)	6810		500	66
591-78-6	2-Hexanone	6200		250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	6040		250	110
67-64-1	Acetone	6750		500	150
71-43-2	Benzene	1440		50	21
75-27-4	Bromodichloromethane	1460		50	20
75-25-2	Bromoform	1860		50	13
74-83-9	Bromomethane	1220		50	35
75-15-0	Carbon disulfide	1370		50	9.5
56-23-5	Carbon tetrachloride	1740		50	14
108-90-7	Chlorobenzene	1250		50	38
124-48-1	Dibromochloromethane	1530		50	16
75-00-3	Chloroethane	1440		50	16
67-66-3	Chloroform	1430		50	17
74-87-3	Chloromethane	1180		50	18
156-59-2	cis-1,2-Dichloroethene	4170		50	41
10061-01-5	cis-1,3-Dichloropropene	1300		50	18
110-82-7	Cyclohexane	1380		50	9.0
75-71-8	Dichlorodifluoromethane	1140		50	34
100-41-4	Ethylbenzene	1270		50	37
106-93-4	1,2-Dibromoethane	1240		50	37
98-82-8	Isopropylbenzene	1340		50	40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I MS Lab Sample ID: 480-126300-5 MS
 Matrix: Water Lab File ID: T1253.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 19:09
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	2390		130	65
1634-04-4	Methyl tert-butyl ether	1260		50	8.0
108-87-2	Methylcyclohexane	1430		50	8.0
75-09-2	Methylene Chloride	1290		50	22
100-42-5	Styrene	1320		50	37
127-18-4	Tetrachloroethene	1330		50	18
108-88-3	Toluene	1360		50	26
156-60-5	trans-1,2-Dichloroethene	1420		50	45
10061-02-6	trans-1,3-Dichloropropene	1300		50	19
79-01-6	Trichloroethene	1530		50	23
75-69-4	Trichlorofluoromethane	1420		50	44
75-01-4	Vinyl chloride	1660		50	45
1330-20-7	Xylenes, Total	2690		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1253.D
 Lims ID: 480-126300-F-5 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 01-Nov-2017 19:09:30 ALS Bottle#: 26 Worklist Smp#: 37
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 480-126300-e-5 ms
 Misc. Info.: 480-0066898-037
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 19:25:50 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: nowakk

Date: 01-Nov-2017 19:27:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	163849	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	585966	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	283520	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.414	-0.011	91	205325	25.0	28.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	291270	25.0	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	743131	25.0	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	182788	25.0	24.9	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	98	237244	25.0	22.8	
13 Chloromethane	50	1.398	1.408	-0.010	99	573502	25.0	23.6	
14 Vinyl chloride	62	1.481	1.491	-0.010	97	509620	25.0	33.3	
15 Bromomethane	94	1.781	1.781	0.000	93	158313	25.0	24.4	
16 Chloroethane	64	1.843	1.843	0.000	94	195134	25.0	28.9	
17 Trichlorofluoromethane	101	2.061	2.061	0.000	55	358002	25.0	28.4	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	90	216345	25.0	31.7	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.517	0.000	95	270614	25.0	38.0	
23 Acetone	43	2.631	2.631	0.000	99	446083	125.0	135.0	
25 Carbon disulfide	76	2.693	2.693	0.000	98	725083	25.0	27.5	
28 Methyl acetate	43	2.890	2.900	-0.010	99	504418	50.0	47.7	
30 Methylene Chloride	84	2.994	2.994	0.000	89	239630	25.0	25.8	
33 Methyl tert-butyl ether	73	3.170	3.180	-0.010	91	578297	25.0	25.1	
32 trans-1,2-Dichloroethene	96	3.180	3.191	-0.011	88	229026	25.0	28.5	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	659119	25.0	34.5	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	803251	25.0	83.4	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	764443	125.0	136.1	
50 Chloroform	83	4.279	4.279	0.000	95	420570	25.0	28.6	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	94	388111	25.0	32.7	
52 Cyclohexane	56	4.372	4.372	0.000	94	667475	25.0	27.7	
53 Carbon tetrachloride	117	4.486	4.486	0.000	94	304819	25.0	34.9	
55 Benzene	78	4.662	4.662	0.000	90	944949	25.0	28.8	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	93	407010	25.0	25.4	
60 Trichloroethene	95	5.139	5.139	0.000	94	253618	25.0	30.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.232	5.232	0.000	93	399664	25.0	28.6	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	89	288444	25.0	25.6	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	293674	25.0	29.3	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	85	325948	25.0	26.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	97	1639607	125.0	120.9	
73 Toluene	92	6.092	6.103	-0.011	97	601155	25.0	27.3	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	95	318902	25.0	25.9	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	150647	25.0	23.1	
79 Tetrachloroethene	166	6.496	6.507	-0.011	89	203960	25.0	26.5	
81 2-Hexanone	43	6.621	6.621	0.000	97	1109812	125.0	124.1	
82 Chlorodibromomethane	129	6.766	6.766	0.000	89	184532	25.0	30.6	
83 Ethylene Dibromide	107	6.838	6.849	-0.011	96	177437	25.0	24.8	
86 Chlorobenzene	112	7.191	7.191	0.000	90	609089	25.0	25.0	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1085179	25.0	25.4	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	405402		27.3	
91 o-Xylene	106	7.667	7.667	0.000	98	394986		26.6	
92 Styrene	104	7.688	7.688	0.000	90	651010	25.0	26.4	
93 Bromoform	173	7.885	7.885	0.000	91	97520	25.0	37.3	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	1022103	25.0	26.7	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	94	234696	25.0	25.7	
110 1,3-Dichlorobenzene	146	8.984	8.983	0.001	94	478671	25.0	25.9	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	490207	25.0	26.1	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	93	451894	25.0	24.8	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.051	-0.010	72	40130	25.0	24.1	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	92	294975	25.0	26.1	
S 126 Xylenes, Total	1				0			53.9	

Reagents:

8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1253.D

Injection Date: 01-Nov-2017 19:09:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-5 MS

Worklist Smp#: 37

Client ID:

Purge Vol: 5.000 mL

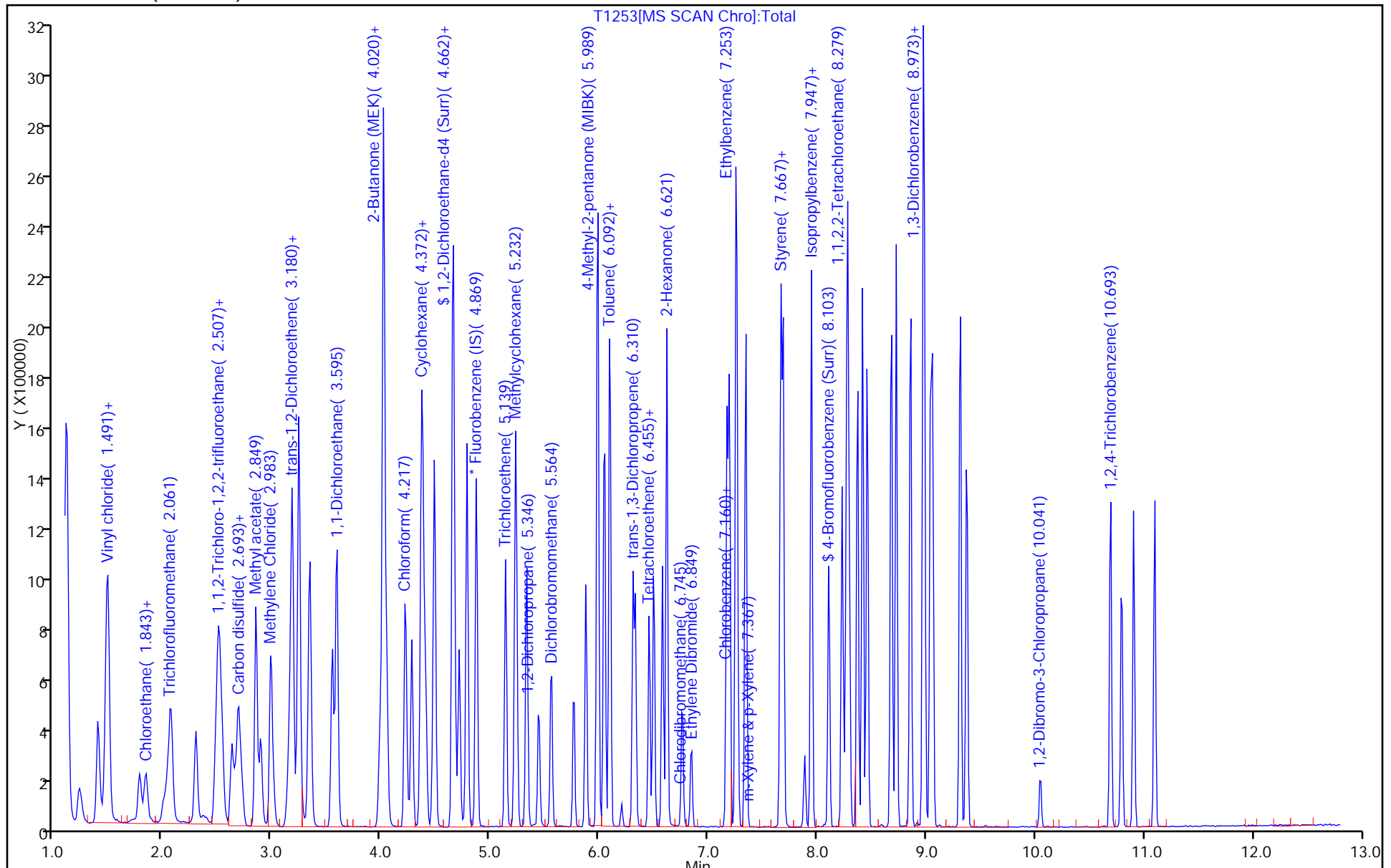
Dil. Factor: 50.0000

ALS Bottle#: 26

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I MSD Lab Sample ID: 480-126300-2 MSD
 Matrix: Water Lab File ID: T1198.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 18:43
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3050		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2100		100	21
79-00-5	1,1,2-Trichloroethane	2000		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3040		100	31
75-34-3	1,1-Dichloroethane	3330		100	38
75-35-4	1,1-Dichloroethene	2490		100	29
120-82-1	1,2,4-Trichlorobenzene	2300		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	1840		100	39
95-50-1	1,2-Dichlorobenzene	2380		100	79
107-06-2	1,2-Dichloroethane	2150		100	21
78-87-5	1,2-Dichloropropane	2330		100	72
541-73-1	1,3-Dichlorobenzene	2470		100	78
106-46-7	1,4-Dichlorobenzene	2420		100	84
78-93-3	2-Butanone (MEK)	10300		1000	130
591-78-6	2-Hexanone	9660		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	9410		500	210
67-64-1	Acetone	11500		1000	300
71-43-2	Benzene	2450		100	41
75-27-4	Bromodichloromethane	2630		100	39
75-25-2	Bromoform	2970		100	26
74-83-9	Bromomethane	2240		100	69
75-15-0	Carbon disulfide	2310		100	19
56-23-5	Carbon tetrachloride	2830		100	27
108-90-7	Chlorobenzene	2360		100	75
124-48-1	Dibromochloromethane	2700		100	32
75-00-3	Chloroethane	2220		100	32
67-66-3	Chloroform	2480		100	34
74-87-3	Chloromethane	2100		100	35
156-59-2	cis-1,2-Dichloroethene	5780		100	81
10061-01-5	cis-1,3-Dichloropropene	2500		100	36
110-82-7	Cyclohexane	2160		100	18
75-71-8	Dichlorodifluoromethane	1960		100	68
100-41-4	Ethylbenzene	2310		100	74
106-93-4	1,2-Dibromoethane	2100		100	73
98-82-8	Isopropylbenzene	2450		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I MSD Lab Sample ID: 480-126300-2 MSD
 Matrix: Water Lab File ID: T1198.D
 Analysis Method: 8260C Date Collected: 10/18/2017 12:55
 Sample wt/vol: 5 (mL) Date Analyzed: 10/31/2017 18:43
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	3680		250	130
1634-04-4	Methyl tert-butyl ether	2150		100	16
108-87-2	Methylcyclohexane	2150		100	16
75-09-2	Methylene Chloride	2430		100	44
100-42-5	Styrene	2480		100	73
127-18-4	Tetrachloroethene	2340		100	36
108-88-3	Toluene	2510		100	51
156-60-5	trans-1,2-Dichloroethene	2420		100	90
10061-02-6	trans-1,3-Dichloropropene	2160		100	37
79-01-6	Trichloroethene	2690		100	46
75-69-4	Trichlorofluoromethane	2250		100	88
75-01-4	Vinyl chloride	3060		100	90
1330-20-7	Xylenes, Total	4820		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1198.D
 Lims ID: 480-126300-B-2 MSD
 Client ID: ML-2I
 Sample Type: MSD
 Inject. Date: 31-Oct-2017 18:43:30 ALS Bottle#: 27 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-126300-b-2 msd
 Misc. Info.: 480-0066859-032
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 31-Oct-2017 19:33:19 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: sonkera

Date: 31-Oct-2017 19:33:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	97	174724	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	606415	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	277143	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.413	0.000	91	203155	25.0	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	277487	25.0	23.1	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	96	741571	25.0	23.5	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	175045	25.0	23.0	
11 Dichlorodifluoromethane	85	1.242	1.242	0.000	97	217819	25.0	19.6	
13 Chloromethane	50	1.408	1.408	0.000	99	544320	25.0	21.0	
14 Vinyl chloride	62	1.491	1.501	-0.010	97	499875	25.0	30.6	
15 Bromomethane	94	1.792	1.792	0.000	92	154944	25.0	22.4	
16 Chloroethane	64	1.843	1.854	-0.011	93	160094	25.0	22.2	
17 Trichlorofluoromethane	101	2.071	2.061	0.010	64	302864	25.0	22.5	
22 1,1-Dichloroethene	96	2.517	2.517	0.000	89	181288	25.0	24.9	
20 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.527	0.011	93	230478	25.0	30.4	
23 Acetone	43	2.631	2.631	0.000	97	404131	125.0	114.7	
25 Carbon disulfide	76	2.693	2.703	-0.010	98	651083	25.0	23.1	
28 Methyl acetate	43	2.900	2.900	0.000	98	414624	50.0	36.8	
30 Methylene Chloride	84	2.994	2.994	0.000	88	241534	25.0	24.3	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	94	527973	25.0	21.5	
32 trans-1,2-Dichloroethene	96	3.191	3.191	0.000	89	208075	25.0	24.2	
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	679420	25.0	33.3	
43 cis-1,2-Dichloroethene	96	4.030	4.030	0.000	87	593462	25.0	57.8	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	95	618568	125.0	103.3	
50 Chloroform	83	4.279	4.279	0.000	95	388856	25.0	24.8	M
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	82	385963	25.0	30.5	
52 Cyclohexane	56	4.382	4.382	0.000	92	555792	25.0	21.6	
53 Carbon tetrachloride	117	4.486	4.486	0.000	94	263589	25.0	28.3	
55 Benzene	78	4.662	4.662	0.000	89	856999	25.0	24.5	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	366347	25.0	21.5	
60 Trichloroethene	95	5.139	5.139	0.000	92	238536	25.0	26.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.232	5.232	0.000	93	320444	25.0	21.5	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	90	279629	25.0	23.3	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	281198	25.0	26.3	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	86	334705	25.0	25.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	96	1320441	125.0	94.1	
73 Toluene	92	6.103	6.103	0.000	96	573164	25.0	25.1	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	274324	25.0	21.6	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	134662	25.0	20.0	
79 Tetrachloroethene	166	6.496	6.496	0.000	90	185798	25.0	23.4	
81 2-Hexanone	43	6.621	6.621	0.000	97	894446	125.0	96.6	
82 Chlorodibromomethane	129	6.766	6.766	0.000	90	168061	25.0	27.0	
83 Ethylene Dibromide	107	6.849	6.849	0.000	100	155162	25.0	21.0	
86 Chlorobenzene	112	7.191	7.191	0.000	89	595370	25.0	23.6	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1021457	25.0	23.1	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	371331		24.1	
91 o-Xylene	106	7.667	7.667	0.000	98	369719		24.1	
92 Styrene	104	7.688	7.688	0.000	93	633827	25.0	24.8	
93 Bromoform	173	7.885	7.885	0.000	92	80315	25.0	29.7	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	914890	25.0	24.5	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	94	187044	25.0	21.0	
110 1,3-Dichlorobenzene	146	8.984	8.983	0.001	94	446615	25.0	24.7	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	89	445289	25.0	24.2	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	94	423075	25.0	23.8	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.040	0.001	74	29557	25.0	18.4	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	254192	25.0	23.0	
S 126 Xylenes, Total	1				0			48.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1198.D

Injection Date: 31-Oct-2017 18:43:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-B-2 MSD

Worklist Smp#: 32

Client ID: ML-2I

Purge Vol: 5.000 mL

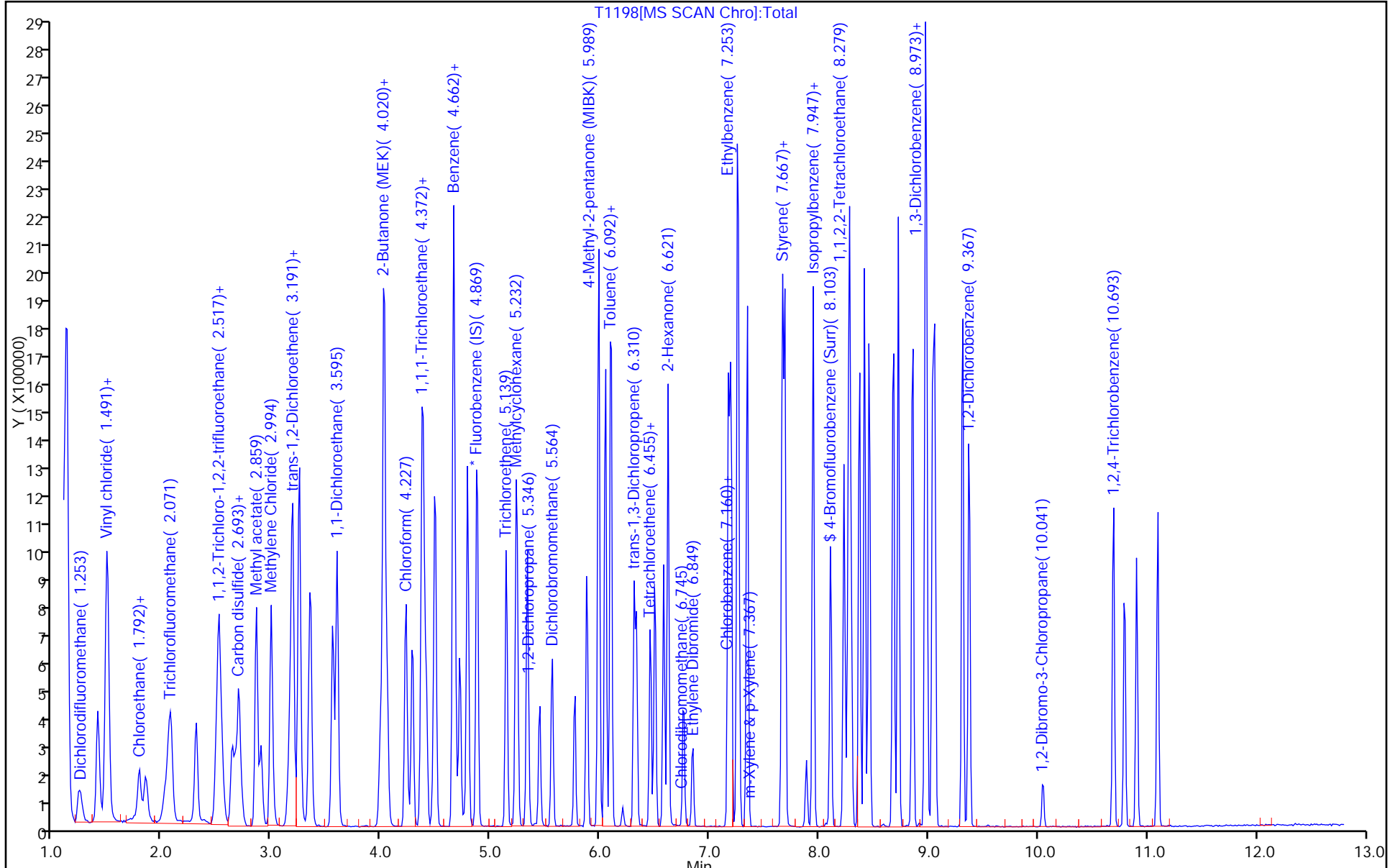
Dil. Factor: 100.0000

ALS Bottle#: 27

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

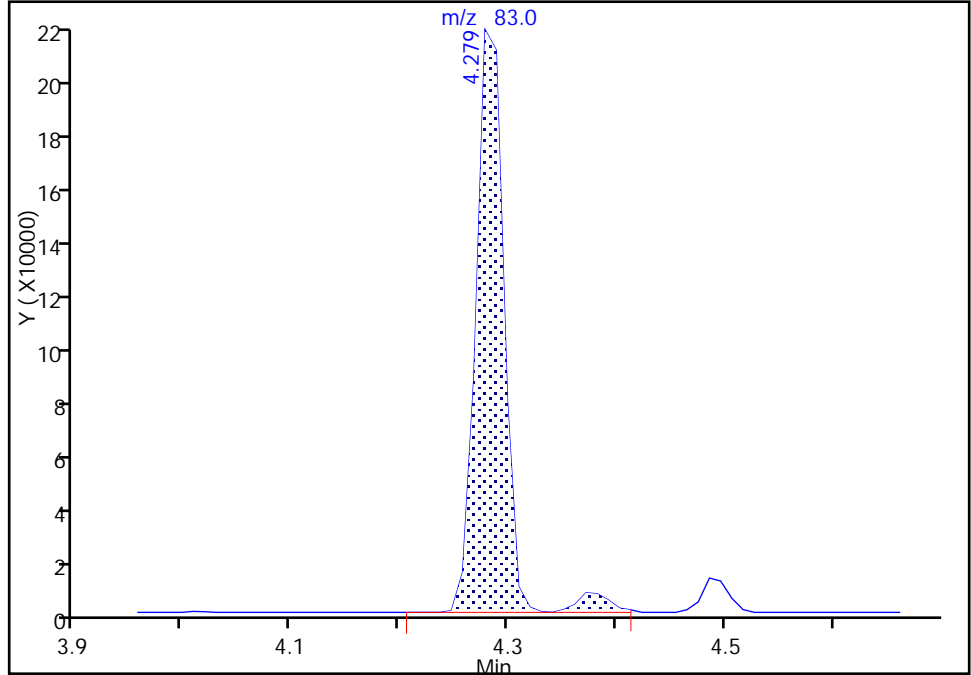
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171031-66859.b\T1198.D
Injection Date: 31-Oct-2017 18:43:30 Instrument ID: HP5975T
Lims ID: 480-126300-B-2 MSD
Client ID: ML-2I
Operator ID: RR ALS Bottle#: 27 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

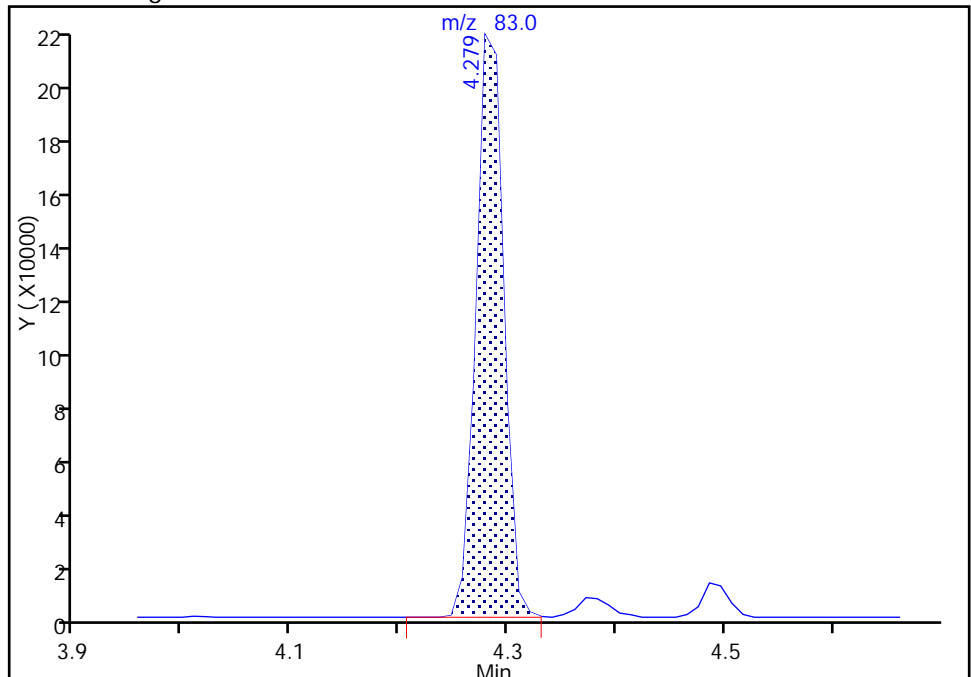
RT: 4.28
Area: 404631
Amount: 25.818549
Amount Units: ug/L

Processing Integration Results



RT: 4.28
Area: 388856
Amount: 24.811984
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 31-Oct-2017 19:33:07
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I MSD Lab Sample ID: 480-126300-5 MSD
 Matrix: Water Lab File ID: T1254.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 19:33
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1510		50	41
79-34-5	1,1,2,2-Tetrachloroethane	1190		50	11
79-00-5	1,1,2-Trichloroethane	1130		50	12
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1700		50	16
75-34-3	1,1-Dichloroethane	1620		50	19
75-35-4	1,1-Dichloroethene	1390		50	15
120-82-1	1,2,4-Trichlorobenzene	1240		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	1150		50	20
95-50-1	1,2-Dichlorobenzene	1180		50	40
107-06-2	1,2-Dichloroethane	1190		50	11
78-87-5	1,2-Dichloropropane	1220		50	36
541-73-1	1,3-Dichlorobenzene	1190		50	39
106-46-7	1,4-Dichlorobenzene	1220		50	42
78-93-3	2-Butanone (MEK)	6490		500	66
591-78-6	2-Hexanone	6030		250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	5900		250	110
67-64-1	Acetone	6930		500	150
71-43-2	Benzene	1300		50	21
75-27-4	Bromodichloromethane	1380		50	20
75-25-2	Bromoform	1700		50	13
74-83-9	Bromomethane	1090		50	35
75-15-0	Carbon disulfide	1250		50	9.5
56-23-5	Carbon tetrachloride	1570		50	14
108-90-7	Chlorobenzene	1220		50	38
124-48-1	Dibromochloromethane	1600		50	16
75-00-3	Chloroethane	1320		50	16
67-66-3	Chloroform	1280		50	17
74-87-3	Chloromethane	1080		50	18
156-59-2	cis-1,2-Dichloroethene	3910		50	41
10061-01-5	cis-1,3-Dichloropropene	1290		50	18
110-82-7	Cyclohexane	1270		50	9.0
75-71-8	Dichlorodifluoromethane	1050		50	34
100-41-4	Ethylbenzene	1180		50	37
106-93-4	1,2-Dibromoethane	1170		50	37
98-82-8	Isopropylbenzene	1220		50	40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I MSD Lab Sample ID: 480-126300-5 MSD
 Matrix: Water Lab File ID: T1254.D
 Analysis Method: 8260C Date Collected: 10/19/2017 14:40
 Sample wt/vol: 5 (mL) Date Analyzed: 11/01/2017 19:33
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 384962 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	2330		130	65
1634-04-4	Methyl tert-butyl ether	1200		50	8.0
108-87-2	Methylcyclohexane	1200		50	8.0
75-09-2	Methylene Chloride	1180		50	22
100-42-5	Styrene	1240		50	37
127-18-4	Tetrachloroethene	1240		50	18
108-88-3	Toluene	1270		50	26
156-60-5	trans-1,2-Dichloroethene	1290		50	45
10061-02-6	trans-1,3-Dichloropropene	1180		50	19
79-01-6	Trichloroethene	1380		50	23
75-69-4	Trichlorofluoromethane	1260		50	44
75-01-4	Vinyl chloride	1490		50	45
1330-20-7	Xylenes, Total	2490		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1254.D
 Lims ID: 480-126300-F-5 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 01-Nov-2017 19:33:30 ALS Bottle#: 27 Worklist Smp#: 38
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 480-126300-e-5 msd
 Misc. Info.: 480-0066898-038
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Nov-2017 17:52:10 Calib Date: 20-Oct-2017 00:03:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171019-66541.b\T0545.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: nowakk

Date: 01-Nov-2017 19:59:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.880	4.869	0.011	97	170528	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	93	604285	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	294342	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.414	-0.001	90	215628	25.0	28.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.662	0.000	0	297018	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.051	0.000	97	762262	25.0	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	79	181661	25.0	24.0	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	97	228454	25.0	21.1	
13 Chloromethane	50	1.418	1.408	0.010	99	544354	25.0	21.5	
14 Vinyl chloride	62	1.501	1.491	0.010	97	473390	25.0	29.7	
15 Bromomethane	94	1.791	1.781	0.010	93	146924	25.0	21.7	
16 Chloroethane	64	1.854	1.843	0.011	93	185391	25.0	26.3	
17 Trichlorofluoromethane	101	2.071	2.061	0.010	59	330768	25.0	25.2	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	89	197826	25.0	27.9	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.010	93	252164	25.0	34.0	
23 Acetone	43	2.641	2.631	0.010	97	476416	125.0	138.5	
25 Carbon disulfide	76	2.703	2.693	0.010	99	687210	25.0	25.0	
28 Methyl acetate	43	2.900	2.900	0.000	99	513779	50.0	46.7	
30 Methylene Chloride	84	2.994	2.994	0.000	88	228761	25.0	23.6	
33 Methyl tert-butyl ether	73	3.180	3.180	0.000	92	573045	25.0	23.9	
32 trans-1,2-Dichloroethene	96	3.191	3.191	-0.001	88	215924	25.0	25.8	
36 1,1-Dichloroethane	63	3.564	3.553	0.011	97	644997	25.0	32.4	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	87	783908	25.0	78.2	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	759079	125.0	129.9	
50 Chloroform	83	4.289	4.279	0.010	95	390854	25.0	25.6	
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	94	373100	25.0	30.2	
52 Cyclohexane	56	4.382	4.372	0.010	93	637247	25.0	25.4	
53 Carbon tetrachloride	117	4.486	4.486	0.000	96	285279	25.0	31.4	
55 Benzene	78	4.662	4.662	0.000	88	886894	25.0	25.9	
57 1,2-Dichloroethane	62	4.724	4.714	0.010	94	397450	25.0	23.9	
60 Trichloroethene	95	5.139	5.139	0.000	93	238247	25.0	27.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.242	5.232	0.010	93	349308	25.0	24.0	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	91	286088	25.0	24.4	
67 Dichlorobromomethane	83	5.564	5.564	0.000	95	289232	25.0	27.7	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	86	336594	25.0	25.8	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.989	0.000	97	1651775	125.0	118.1	
73 Toluene	92	6.103	6.103	0.000	97	577563	25.0	25.4	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	96	298482	25.0	23.5	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	94	151767	25.0	22.6	
79 Tetrachloroethene	166	6.507	6.507	0.000	91	196073	25.0	24.7	
81 2-Hexanone	43	6.621	6.621	0.000	98	1112135	125.0	120.6	
82 Chlorodibromomethane	129	6.766	6.766	0.000	88	198347	25.0	31.9	
83 Ethylene Dibromide	107	6.849	6.849	0.000	98	171959	25.0	23.3	
86 Chlorobenzene	112	7.191	7.191	0.000	90	615699	25.0	24.5	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1040310	25.0	23.6	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	386726		25.2	
91 o-Xylene	106	7.667	7.667	0.000	99	375268		24.5	
92 Styrene	104	7.688	7.688	0.000	90	632638	25.0	24.9	
93 Bromoform	173	7.885	7.885	0.000	91	91938	25.0	34.1	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	965673	25.0	24.3	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	95	225246	25.0	23.8	
110 1,3-Dichlorobenzene	146	8.983	8.983	0.000	93	456496	25.0	23.8	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	90	476811	25.0	24.4	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	94	445226	25.0	23.6	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.051	0.000	67	39609	25.0	23.0	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	290052	25.0	24.7	
S 126 Xylenes, Total	1				0			49.8	

Reagents:

GAS CORP mix_00248	Amount Added: 12.50	Units: uL	
8260 CORP mix_00113	Amount Added: 12.50	Units: uL	
T_8260_IS_00176	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00160	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171101-66898.b\T1254.D

Injection Date: 01-Nov-2017 19:33:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: 480-126300-F-5 MSD

Worklist Smp#: 38

Client ID:

Purge Vol: 5.000 mL

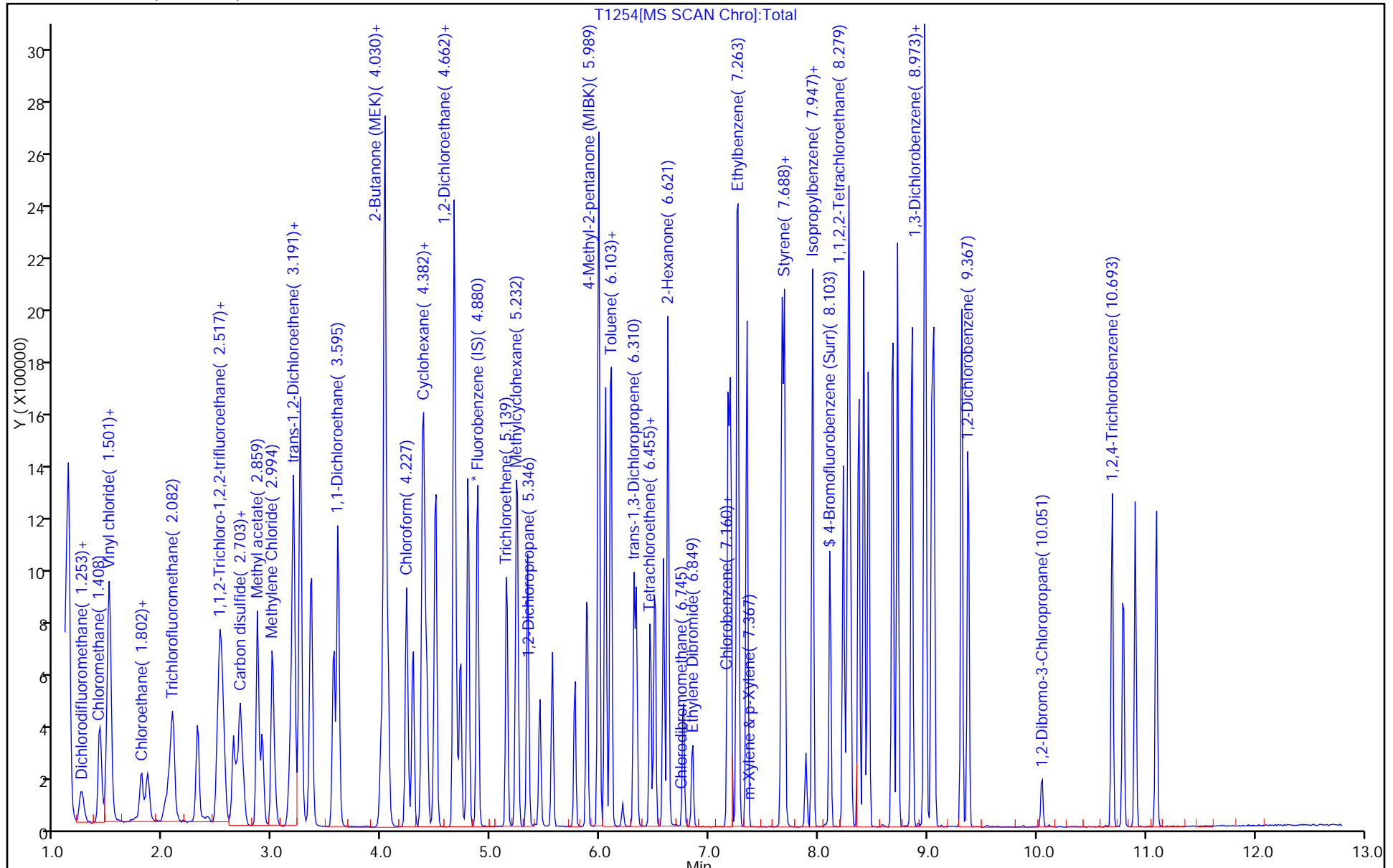
Dil. Factor: 50.0000

ALS Bottle#: 27

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 10/19/2017 16:09

Analysis Batch Number: 382770 End Date: 10/20/2017 01:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-382770/4		10/19/2017 16:09	1	T0525.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/6		10/19/2017 16:57	1	T0527.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/7		10/19/2017 17:21	1	T0528.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/8		10/19/2017 17:44	1	T0529.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/9		10/19/2017 18:08	1	T0530.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/10		10/19/2017 18:31	1	T0531.D	ZB-624 (20) 0.18 (mm)
ICIS 480-382770/11		10/19/2017 18:55	1	T0532.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/12		10/19/2017 19:18	1	T0533.D	ZB-624 (20) 0.18 (mm)
IC 480-382770/13		10/19/2017 19:42	1	T0534.D	ZB-624 (20) 0.18 (mm)
MDLV 480-382770/15		10/19/2017 20:30	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/18		10/19/2017 21:40	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/19		10/19/2017 22:04	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/20		10/19/2017 22:28	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/21		10/19/2017 22:52	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/22		10/19/2017 23:15	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/23		10/19/2017 23:39	1		ZB-624 (20) 0.18 (mm)
IC 480-382770/24		10/20/2017 00:03	1		ZB-624 (20) 0.18 (mm)
MDLV 480-382770/26		10/20/2017 00:50	1		ZB-624 (20) 0.18 (mm)
ICV 480-382770/27		10/20/2017 01:14	1		ZB-624 (20) 0.18 (mm)
ICV 480-382770/28		10/20/2017 01:37	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-126300-1

SDG No.: _____

Instrument ID: HP5975TStart Date: 10/31/2017 08:11Analysis Batch Number: 384727End Date: 10/31/2017 18:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-384727/1		10/31/2017 08:11	1	T1172.D	ZB-624 (20) 0.18 (mm)
CCV 480-384727/3		10/31/2017 08:58	1		ZB-624 (20) 0.18 (mm)
CCVIS 480-384727/10		10/31/2017 09:24	1	T1175.D	ZB-624 (20) 0.18 (mm)
LCS 480-384727/4		10/31/2017 09:48	1	T1176.D	ZB-624 (20) 0.18 (mm)
RL 480-384727/6		10/31/2017 10:11	1		ZB-624 (20) 0.18 (mm)
MB 480-384727/7		10/31/2017 10:35	1	T1178.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 11:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 11:33	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 11:57	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 12:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 12:45	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 13:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 13:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 13:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 14:20	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 14:44	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 15:08	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 15:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 15:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		10/31/2017 16:20	1		ZB-624 (20) 0.18 (mm)
480-126300-2		10/31/2017 16:43	100	T1193.D	ZB-624 (20) 0.18 (mm)
480-126300-3		10/31/2017 17:07	2	T1194.D	ZB-624 (20) 0.18 (mm)
480-126300-7		10/31/2017 17:31	100	T1195.D	ZB-624 (20) 0.18 (mm)
480-126300-1		10/31/2017 17:55	10	T1196.D	ZB-624 (20) 0.18 (mm)
480-126300-2 MS		10/31/2017 18:19	100	T1197.D	ZB-624 (20) 0.18 (mm)
480-126300-2 MSD		10/31/2017 18:43	100	T1198.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-126300-1

SDG No.: _____

Instrument ID: HP5975TStart Date: 11/01/2017 09:26Analysis Batch Number: 384962End Date: 11/01/2017 19:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-384962/2		11/01/2017 09:26	1	T1229.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-384962/3		11/01/2017 09:54	1	T1230.D	ZB-624 (20) 0.18 (mm)
CCV 480-384962/4		11/01/2017 10:18	1		ZB-624 (20) 0.18 (mm)
LCS 480-384962/5		11/01/2017 10:42	1	T1232.D	ZB-624 (20) 0.18 (mm)
RL 480-384962/6		11/01/2017 11:05	1		ZB-624 (20) 0.18 (mm)
MB 480-384962/7		11/01/2017 11:29	1	T1234.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 12:01	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 12:25	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 12:48	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 13:12	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 13:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 13:59	25		ZB-624 (20) 0.18 (mm)
480-126300-4		11/01/2017 14:22	10	T1241.D	ZB-624 (20) 0.18 (mm)
480-126300-5		11/01/2017 14:46	50	T1242.D	ZB-624 (20) 0.18 (mm)
480-126300-6		11/01/2017 15:10	20	T1243.D	ZB-624 (20) 0.18 (mm)
480-126300-8		11/01/2017 15:34	1	T1244.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 15:58	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 16:21	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 16:45	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 17:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 17:33	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 17:57	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 18:21	4		ZB-624 (20) 0.18 (mm)
ZZZZZ		11/01/2017 18:45	1		ZB-624 (20) 0.18 (mm)
480-126300-5 MS		11/01/2017 19:09	50	T1253.D	ZB-624 (20) 0.18 (mm)
480-126300-5 MSD		11/01/2017 19:33	50	T1254.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 384727 Batch Start Date: 10/31/17 08:11 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00113	BFB_WRK 00065	GAS CORP mix 00248
BFB 480-384727/1		8260C		1 uL	1 uL			1 uL	
LCS 480-384727/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-384727/7		8260C		5 mL	5 mL				
CCVIS 480-384727/10		8260C		5 mL	5 mL		12.5 uL		12.5 uL
480-126300-E-2	ML-2I	8260C	T	5 mL	5 mL	7 SU			
480-126300-F-3	ML-2D	8260C	T	5 mL	5 mL	<2 SU			
480-126300-B-7	DUPLICATE	8260C	T	5 mL	5 mL	7 SU			
480-126300-B-2 MS	ML-2I	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL
480-126300-B-2 MSD	ML-2I	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL
480-126300-F-1	ML-2S	8260C	T	5 mL	5 mL	7 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00176	T_8260_Surr 00160				
BFB 480-384727/1		8260C							
LCS 480-384727/4		8260C		1 uL	1 uL				
MB 480-384727/7		8260C		1 uL	1 uL				
CCVIS 480-384727/10		8260C		1 uL	1 uL				
480-126300-E-2	ML-2I	8260C	T	1 uL	1 uL				
480-126300-F-3	ML-2D	8260C	T	1 uL	1 uL				
480-126300-B-7	DUPLICATE	8260C	T	1 uL	1 uL				
480-126300-B-2 MS	ML-2I	8260C	T	1 uL	1 uL				
480-126300-B-2 MSD	ML-2I	8260C	T	1 uL	1 uL				
480-126300-F-1	ML-2S	8260C	T	1 uL	1 uL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 384727 Batch Start Date: 10/31/17 08:11 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 384962 Batch Start Date: 11/01/17 09:26 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00113	BFB_WRK 00065	GAS CORP mix 00248
BFB 480-384962/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-384962/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-384962/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-384962/7		8260C		5 mL	5 mL				
480-126300-F-4	ML-7S	8260C	T	5 mL	5 mL	7 SU			
480-126300-F-5	ML-7I	8260C	T	5 mL	5 mL	<2 SU			
480-126300-F-6	ML-7D	8260C	T	5 mL	5 mL	<2 SU			
480-126300-A-8	TRIP BLANK	8260C	T	5 mL	5 mL	<2 SU			
480-126300-F-5 MS	ML-7I	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-126300-F-5 MSD	ML-7I	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00176	T_8260_Surr 00160				
BFB 480-384962/2		8260C							
CCVIS 480-384962/3		8260C		1 uL	1 uL				
LCS 480-384962/5		8260C		1 uL	1 uL				
MB 480-384962/7		8260C		1 uL	1 uL				
480-126300-F-4	ML-7S	8260C	T	1 uL	1 uL				
480-126300-F-5	ML-7I	8260C	T	1 uL	1 uL				
480-126300-F-6	ML-7D	8260C	T	1 uL	1 uL				
480-126300-A-8	TRIP BLANK	8260C	T	1 uL	1 uL				
480-126300-F-5 MS	ML-7I	8260C	T	1 uL	1 uL				
480-126300-F-5 MSD	ML-7I	8260C	T	1 uL	1 uL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 384962 Batch Start Date: 11/01/17 09:26 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_02_251.D
 Lab ID: LCS 480-383922/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	12.7	87	79-120	
Ethene	13.6	11.8	87	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_02_252.D

Lab ID: LCSD 480-383922/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	14.6	17.5	120	31	50	79-120	
Ethene	13.6	15.6	114	27	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: MB 480-383922/2
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_02_250.D Lab File ID: (2) _____
 Date Analyzed: (1) 10/26/2017 09:37 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-383922/3	10/26/2017 09:55	
	LCSD 480-383922/4	10/26/2017 10:12	
ML-2S	480-126300-1	10/26/2017 10:55	
ML-2I	480-126300-2	10/26/2017 11:13	
ML-2D	480-126300-3	10/26/2017 11:30	
ML-7S	480-126300-4	10/26/2017 11:48	
ML-7I	480-126300-5	10/26/2017 12:05	
ML-7D	480-126300-6	10/26/2017 12:23	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-126300-1
 Matrix: Water Lab File ID: 21_02_253.D
 Analysis Method: RSK-175 Date Collected: 10/19/2017 08:45
 Sample wt/vol: 17(mL) Date Analyzed: 10/26/2017 10:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	110		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_253.D
 Lims ID: 480-126300-E-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 26-Oct-2017 10:55:48 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

First Level Reviewer: gentnert Date: 26-Oct-2017 11:30:55

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane						M
1	1.723	1.763	-0.040	176832	110.6	M
2	1.540	1.553	-0.013	309275	154.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_253.D

Injection Date: 26-Oct-2017 10:55:48

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-126300-E-1

Lab Sample ID: 480-126300-1

Worklist Smp#: 7

Client ID: ML-2S

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

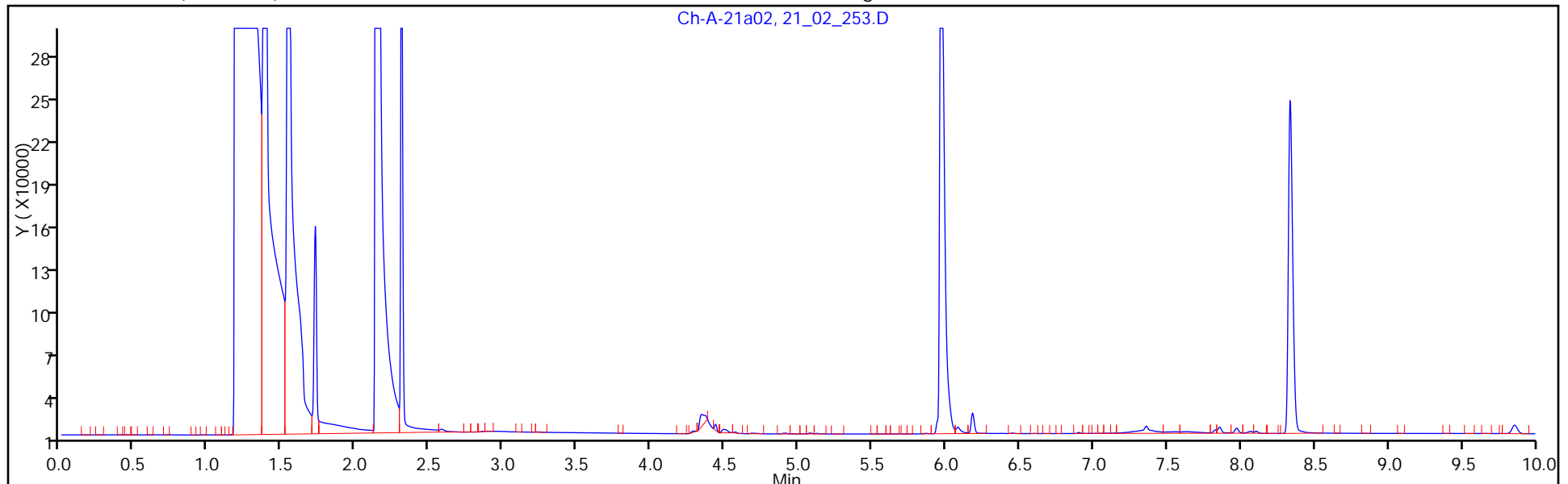
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

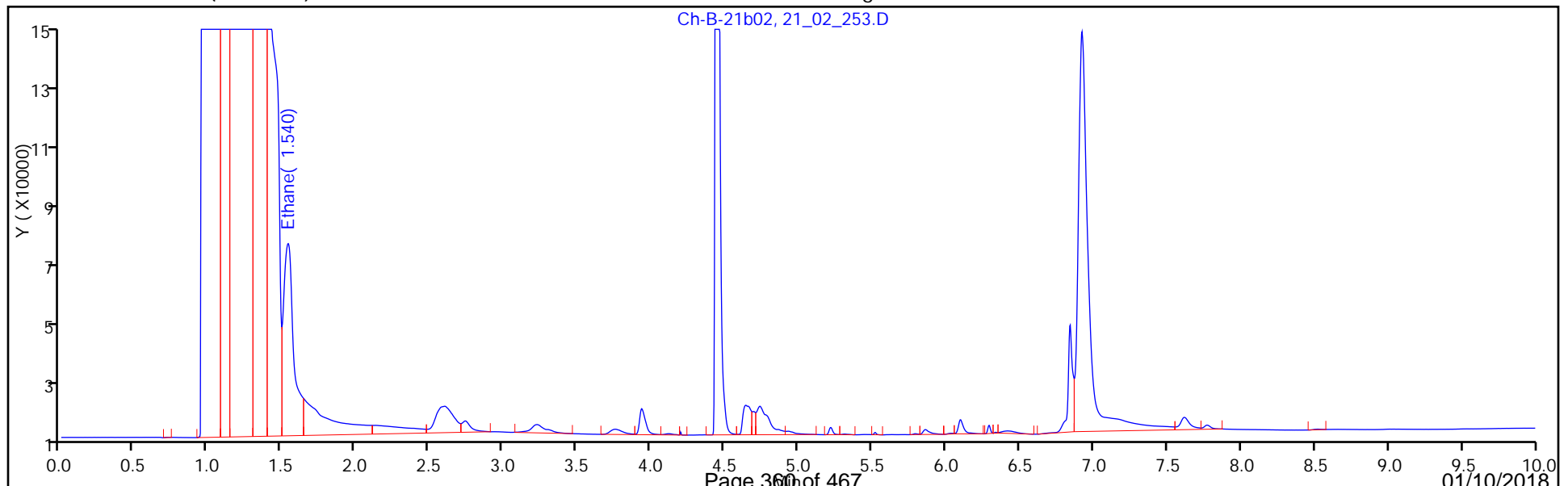
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

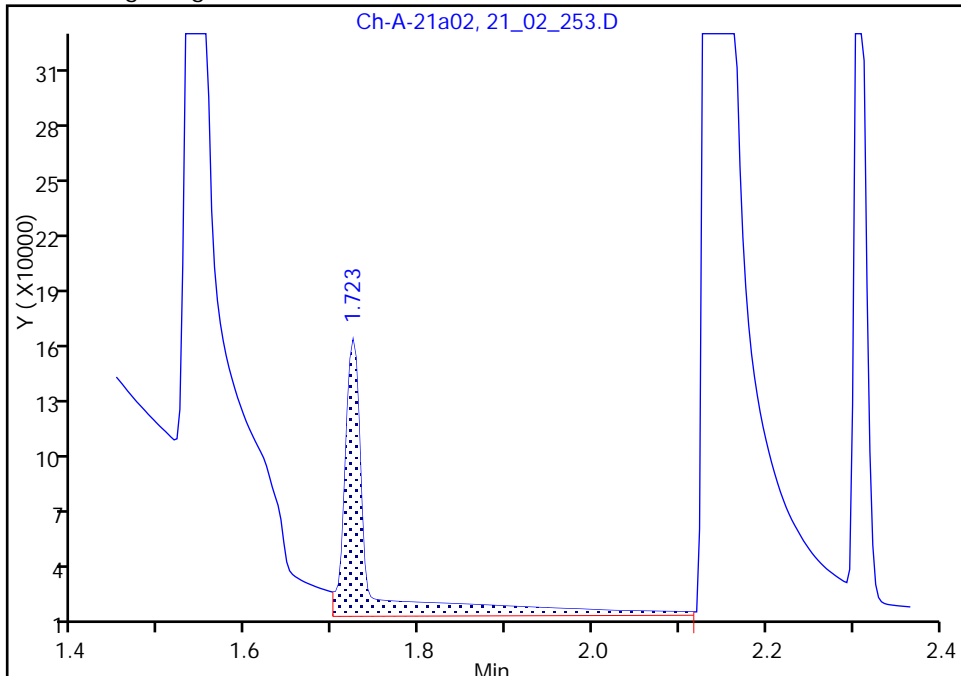
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_253.D
Injection Date: 26-Oct-2017 10:55:48 Instrument ID: HP5890-21
Lims ID: 480-126300-E-1 Lab Sample ID: 480-126300-1
Client ID: ML-2S
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

2 Ethane, CAS: 74-84-0

Signal: 1

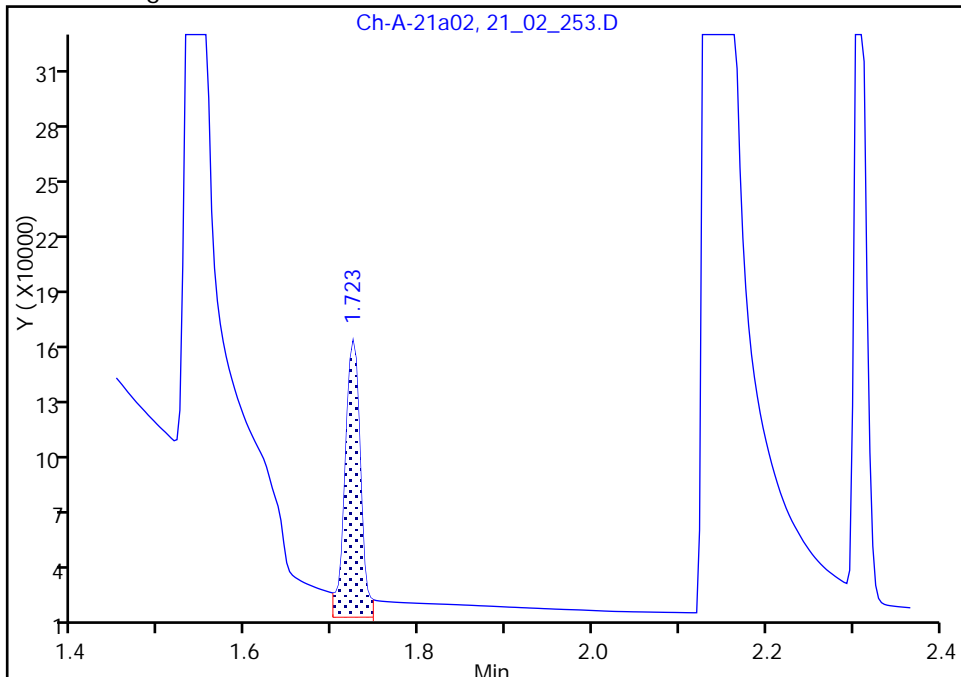
RT: 1.72
Area: 279976
Amount: 178.1035
Amount Units: ug/l

Processing Integration Results



RT: 1.72
Area: 176832
Amount: 110.5894
Amount Units: ug/l

Manual Integration Results



Reviewer: gentnert, 26-Oct-2017 11:30:16
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-126300-2
 Matrix: Water Lab File ID: 21_02_254.D
 Analysis Method: RSK-175 Date Collected: 10/18/2017 12:55
 Sample wt/vol: 17(mL) Date Analyzed: 10/26/2017 11:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	60		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_254.D
 Lims ID: 480-126300-F-2
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 26-Oct-2017 11:13:22 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

First Level Reviewer: gentnert Date: 26-Oct-2017 11:31:46

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane						
1	1.733	1.763	-0.030	98981	59.6	
2	1.540	1.553	-0.013	147275	70.2	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_254.D

Injection Date: 26-Oct-2017 11:13:22

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-126300-F-2

Lab Sample ID: 480-126300-2

Worklist Smp#: 8

Client ID: ML-2I

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

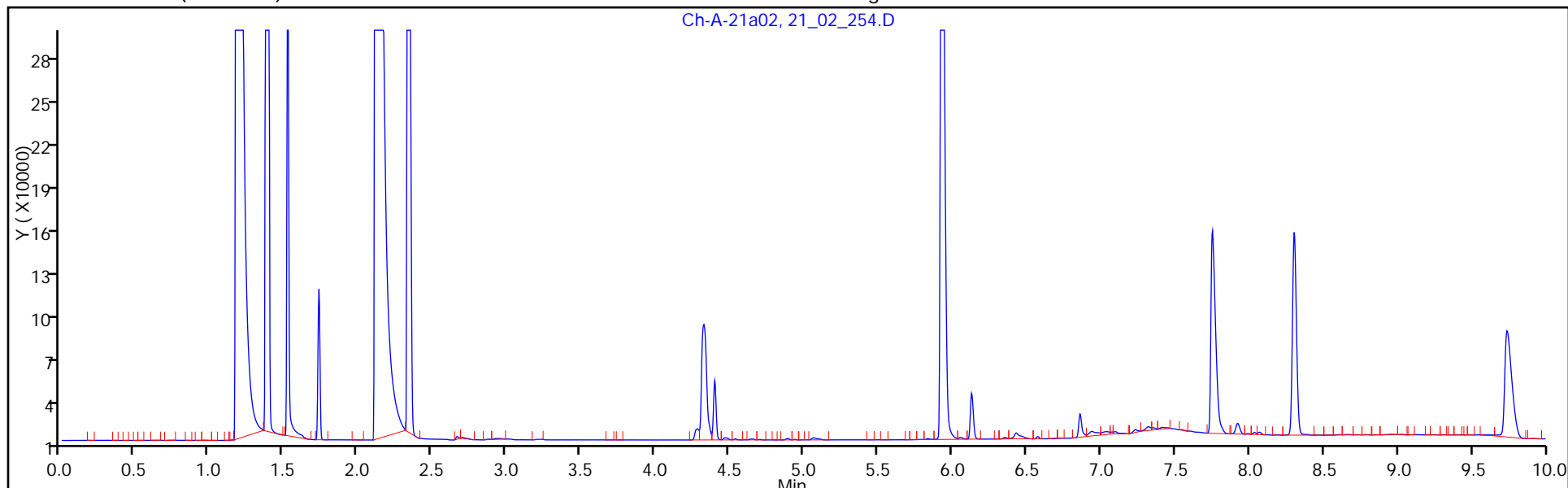
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

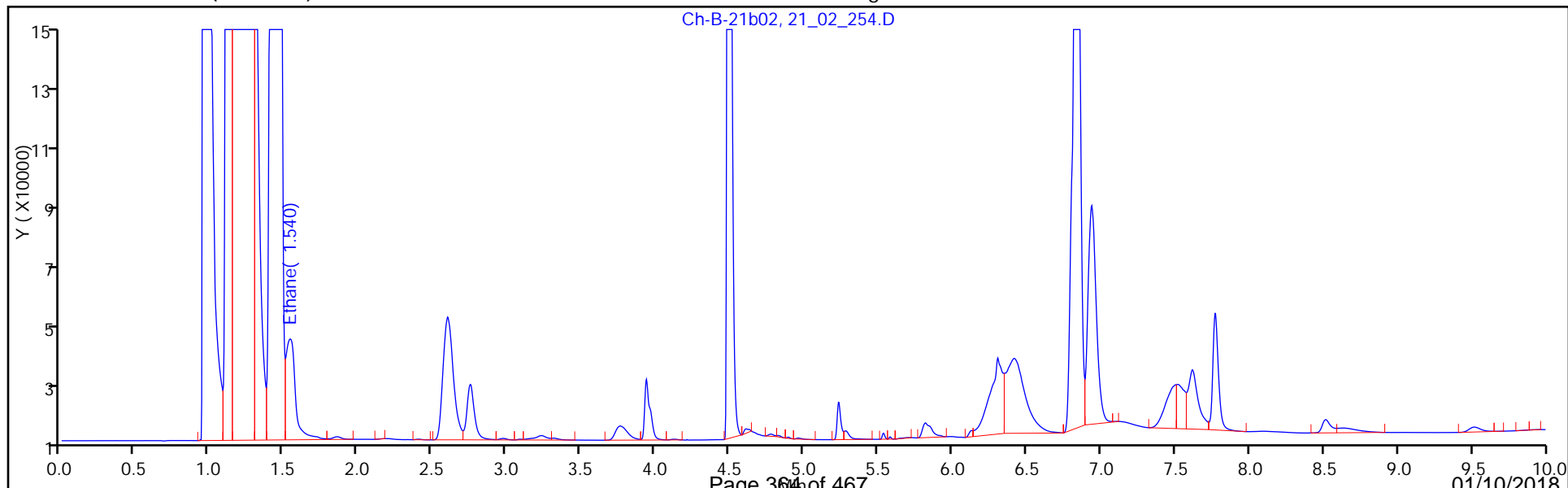
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-126300-3
 Matrix: Water Lab File ID: 21_02_255.D
 Analysis Method: RSK-175 Date Collected: 10/18/2017 15:50
 Sample wt/vol: 17(mL) Date Analyzed: 10/26/2017 11:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	9.8		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_255.D
 Lims ID: 480-126300-E-3
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 26-Oct-2017 11:30:52 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.763	-0.010	6280	-1.05
2	1.550	1.553	-0.003	7812	-2.09

3 Ethylene

1	2.427	2.473	-0.046	20390	9.84
2	1.463	1.473	-0.010	25324	8.72

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_255.D

Injection Date: 26-Oct-2017 11:30:52

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-126300-E-3

Lab Sample ID: 480-126300-3

Worklist Smp#: 9

Client ID: ML-2D

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

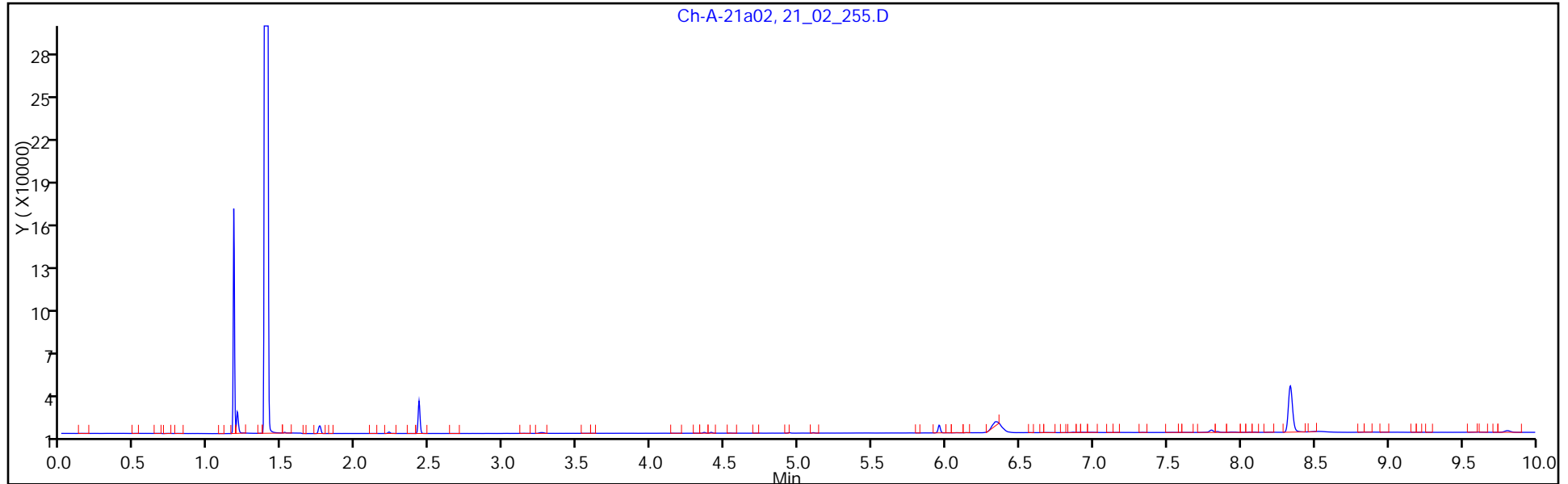
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

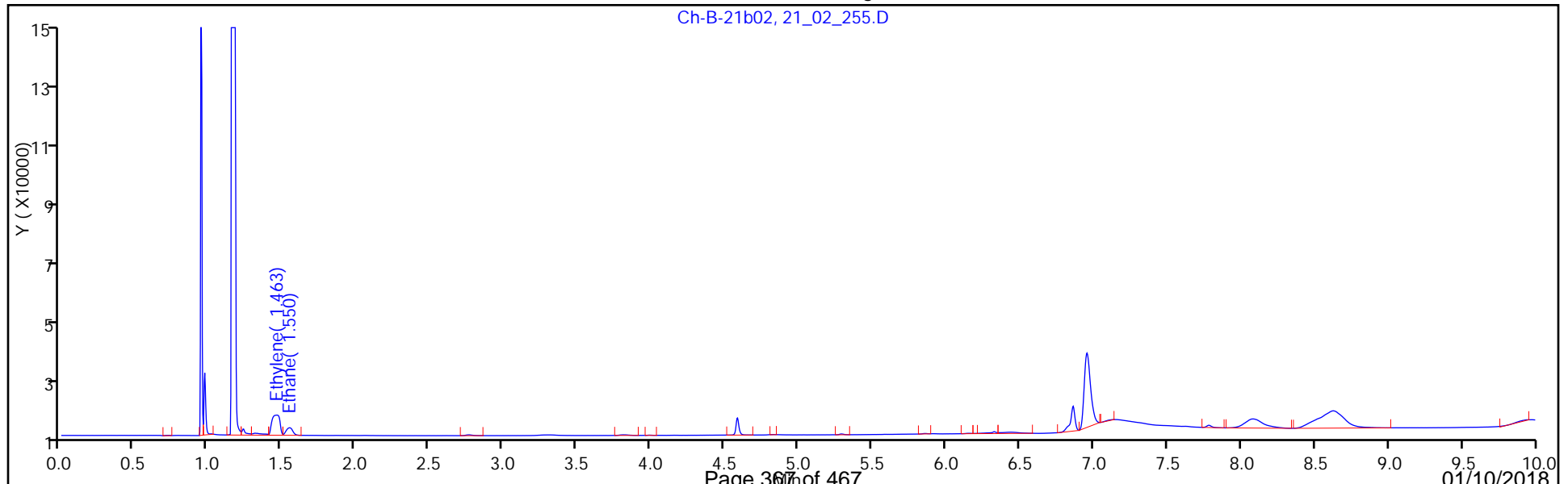
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-126300-4
 Matrix: Water Lab File ID: 21_02_256.D
 Analysis Method: RSK-175 Date Collected: 10/19/2017 12:20
 Sample wt/vol: 17(mL) Date Analyzed: 10/26/2017 11:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_256.D
 Lims ID: 480-126300-E-4
 Client ID: ML-7S
 Sample Type: Client
 Inject. Date: 26-Oct-2017 11:48:22 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

First Level Reviewer: gentnert Date: 26-Oct-2017 12:05:09

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

2 Ethane						M
1	1.800	1.763	0.037	5596	-1.50	
2	1.547	1.553	-0.006	39316	14.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_256.D

Injection Date: 26-Oct-2017 11:48:22

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-126300-E-4

Lab Sample ID: 480-126300-4

Worklist Smp#: 10

Client ID: ML-7S

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

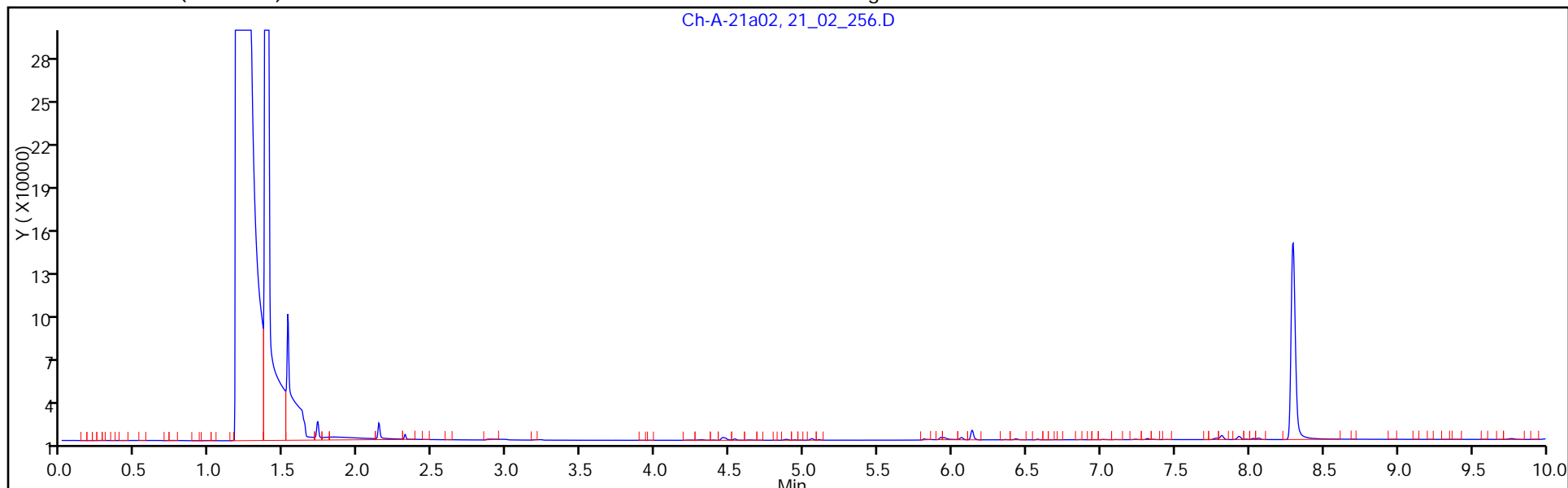
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

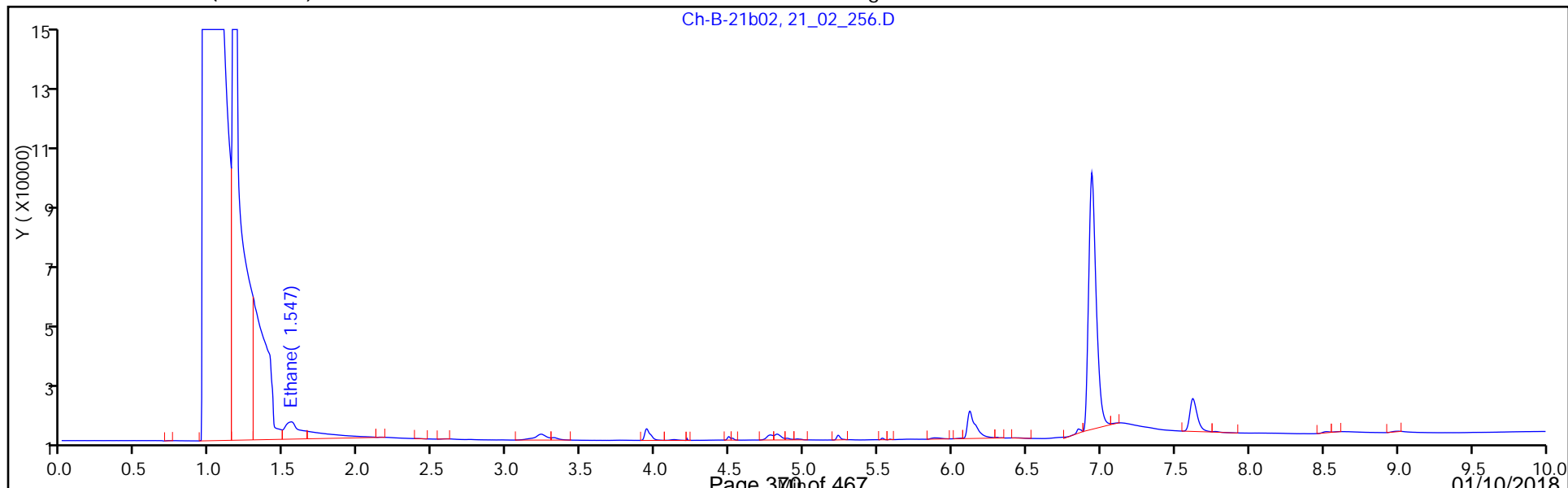
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-126300-5
 Matrix: Water Lab File ID: 21_02_257.D
 Analysis Method: RSK-175 Date Collected: 10/19/2017 14:40
 Sample wt/vol: 17(mL) Date Analyzed: 10/26/2017 12:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	110		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_257.D
 Lims ID: 480-126300-E-5
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 26-Oct-2017 12:05:52 ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

First Level Reviewer: gentnert Date: 26-Oct-2017 12:55:40

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

2 Ethane						
1	1.723	1.763	-0.040	182349	114.2	
2	1.543	1.553	-0.010	224067	110.0	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_257.D

Injection Date: 26-Oct-2017 12:05:52

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-126300-E-5

Lab Sample ID: 480-126300-5

Worklist Smp#: 11

Client ID: ML-71

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

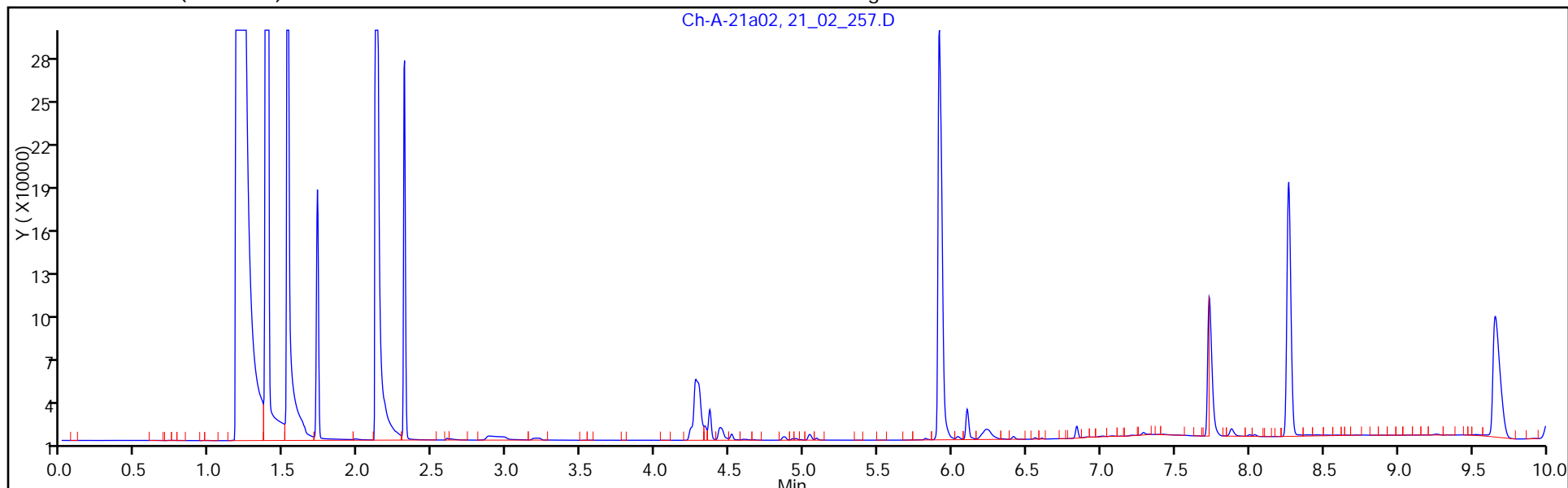
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

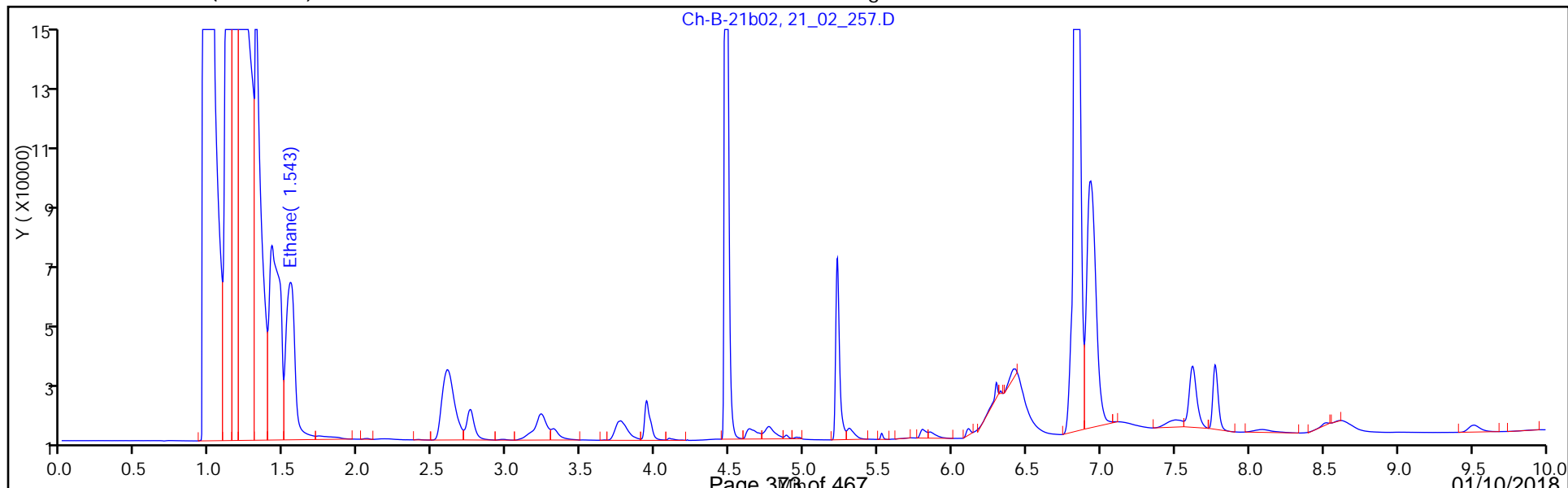
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-126300-6
 Matrix: Water Lab File ID: 21_02_258.D
 Analysis Method: RSK-175 Date Collected: 10/20/2017 10:20
 Sample wt/vol: 17(mL) Date Analyzed: 10/26/2017 12:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	93		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_258.D
 Lims ID: 480-126300-E-6
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 26-Oct-2017 12:23:23 ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

2 Ethane						
1	1.733	1.763	-0.030	149982	93.0	
2	1.543	1.553	-0.010	179960	87.2	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_258.D

Injection Date: 26-Oct-2017 12:23:23

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-126300-E-6

Lab Sample ID: 480-126300-6

Worklist Smp#: 12

Client ID: ML-7D

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

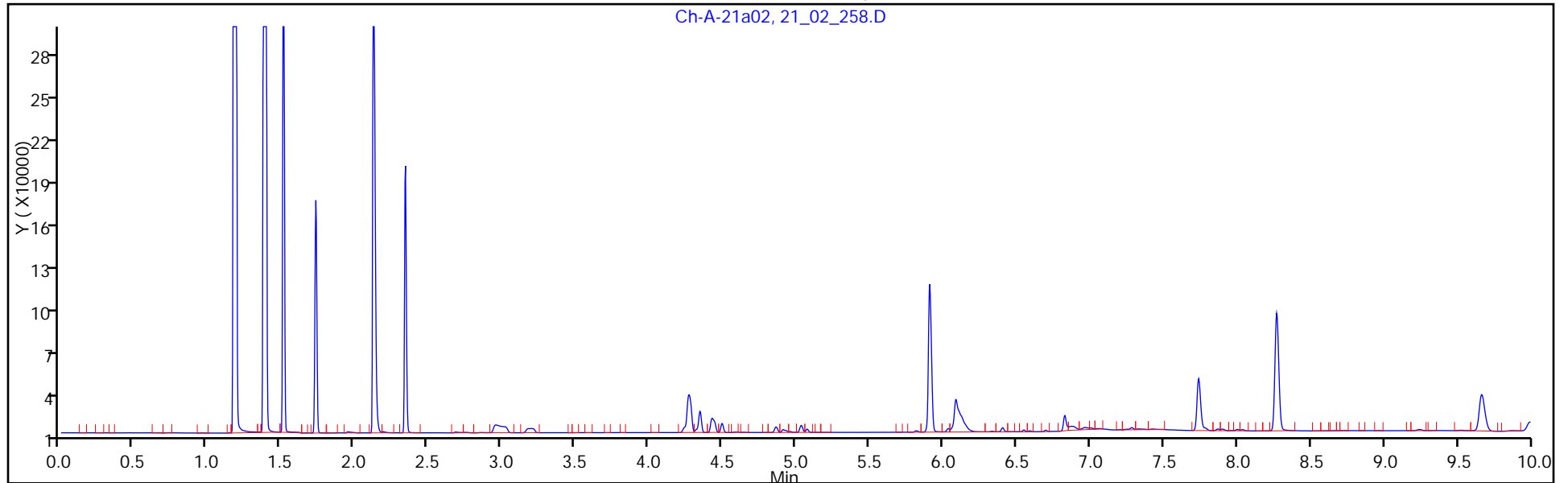
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

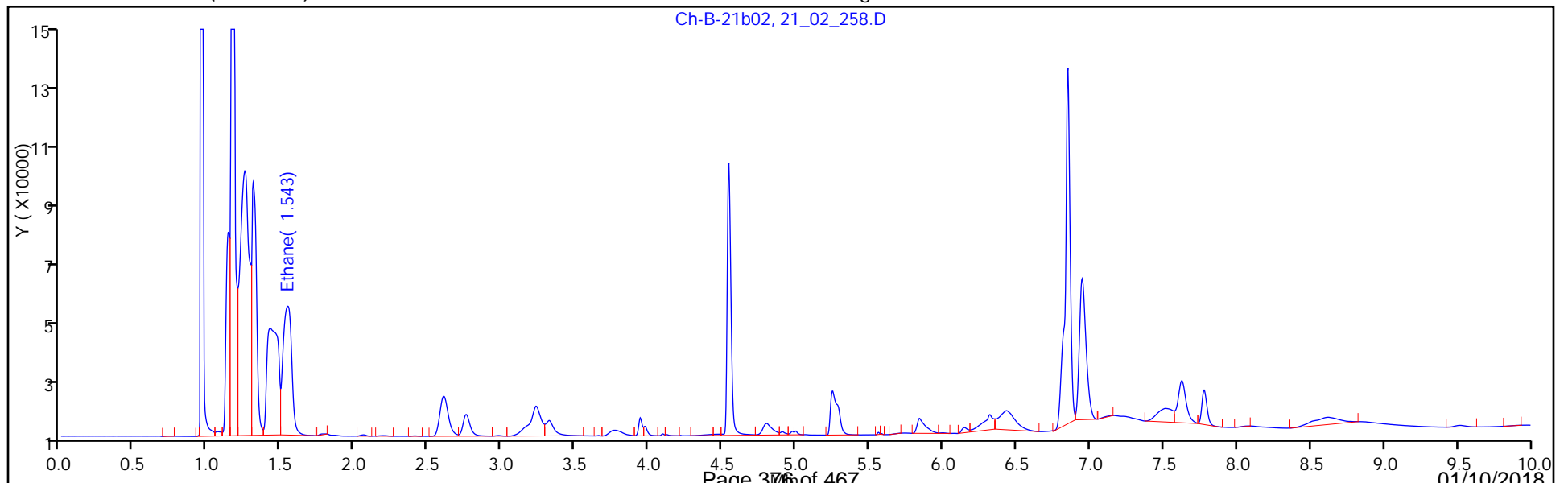
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124							0.9980		0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962							0.9980		0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756							0.9980		0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753							0.9970		0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147							0.9930		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	Lin1	9749	14857	34711	62430	125878	3.88	7.77	19.4	38.8	77.7
		229956	348303	441234	534455		155	233	311	388	
Ethane	Lin1	18234	28234	67776	121900	247603	7.28	14.6	36.4	72.8	146
		450167	686896	868187	+++++		291	437	583	+++++	
Ethene	Lin1	15388	24254	57298	104285	211496	6.80	13.6	34.0	68.0	136
		384441	587597	737510	+++++		272	408	544	+++++	
Propane	Lin1	27946	43073	103995	185489	380021	10.7	21.4	53.4	107	214
		684190	+++++	+++++	+++++		427	+++++	+++++	+++++	
Butane	Lin1	37264	57053	138358	247119	587931	13.9	27.9	69.7	139	279
		1013085	+++++	+++++	+++++		558	+++++	+++++	+++++	

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	
2 Ethane							
1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	
3 Ethylene							
1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	
4 Propane							
1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	
5 Butane							
1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

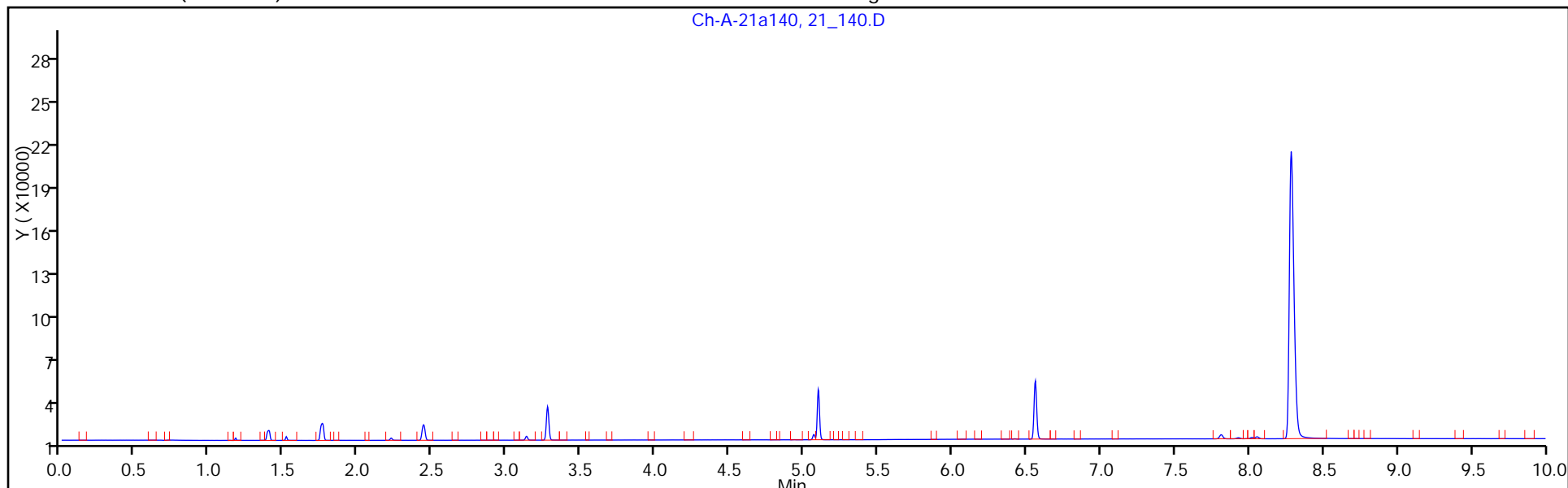
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

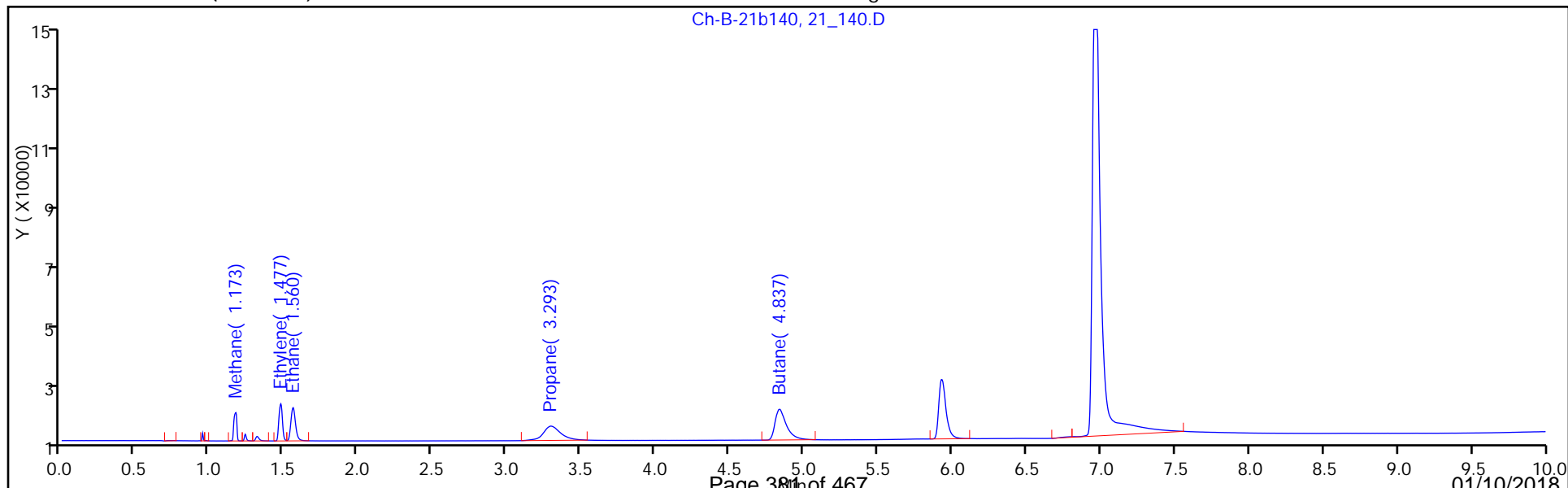
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	
2 Ethane							
1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	
3 Ethylene							
1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	
4 Propane							
1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	
5 Butane							
1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

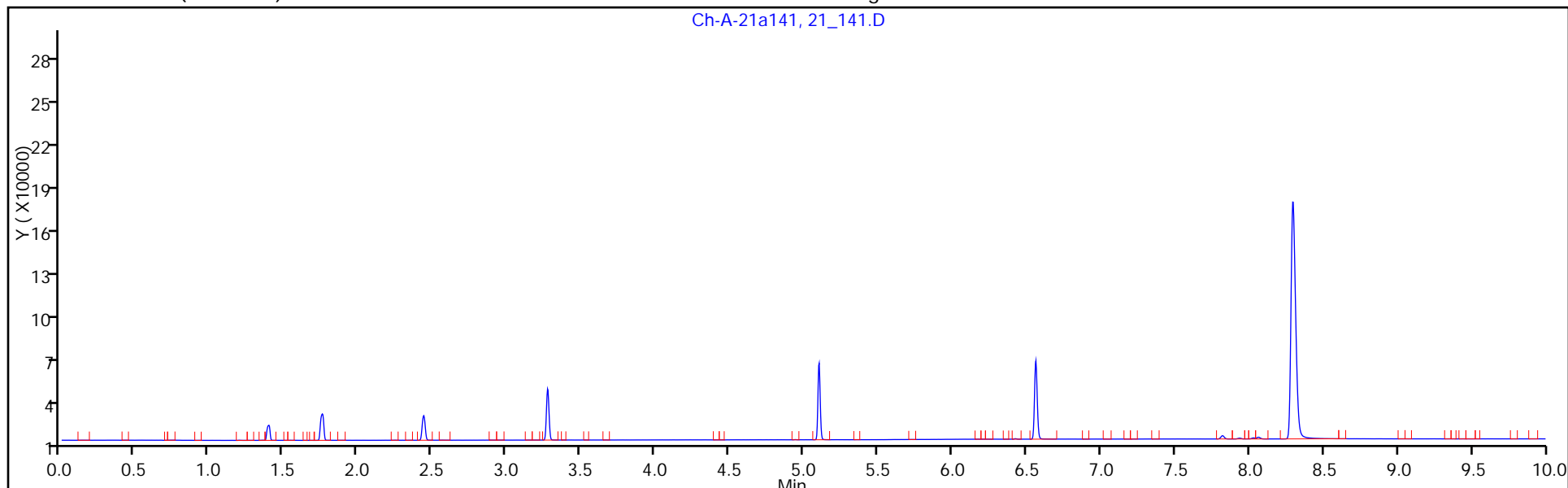
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

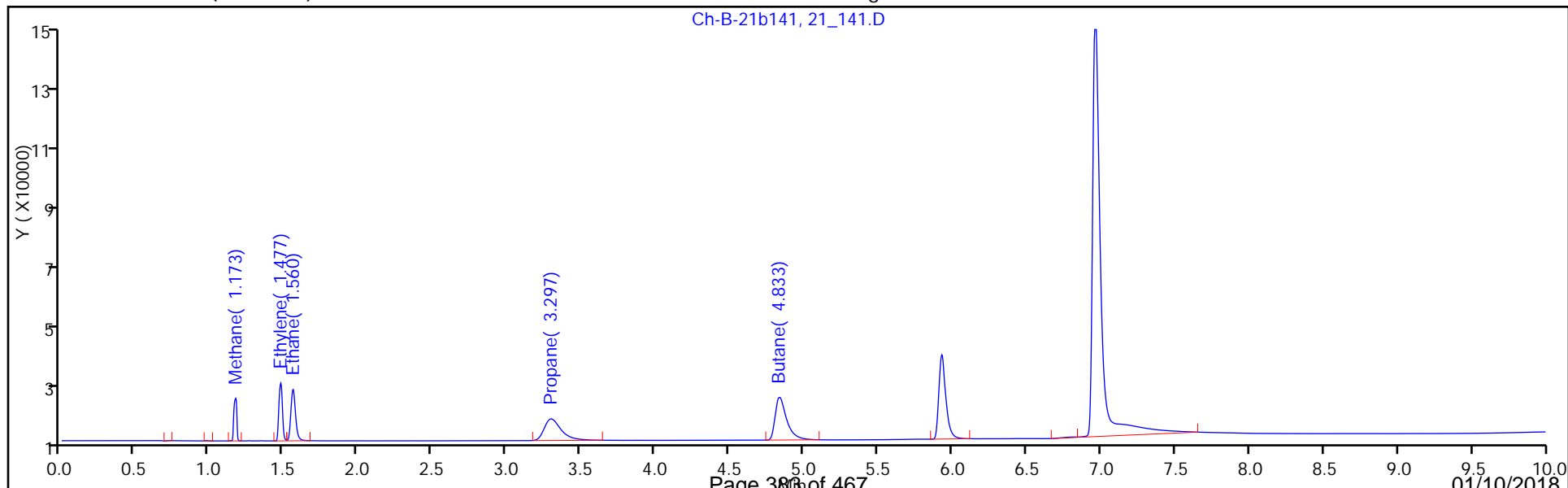
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	
2 Ethane							
1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	
3 Ethylene							
1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	
4 Propane							
1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	
5 Butane							
1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022 Amount Added: 50.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

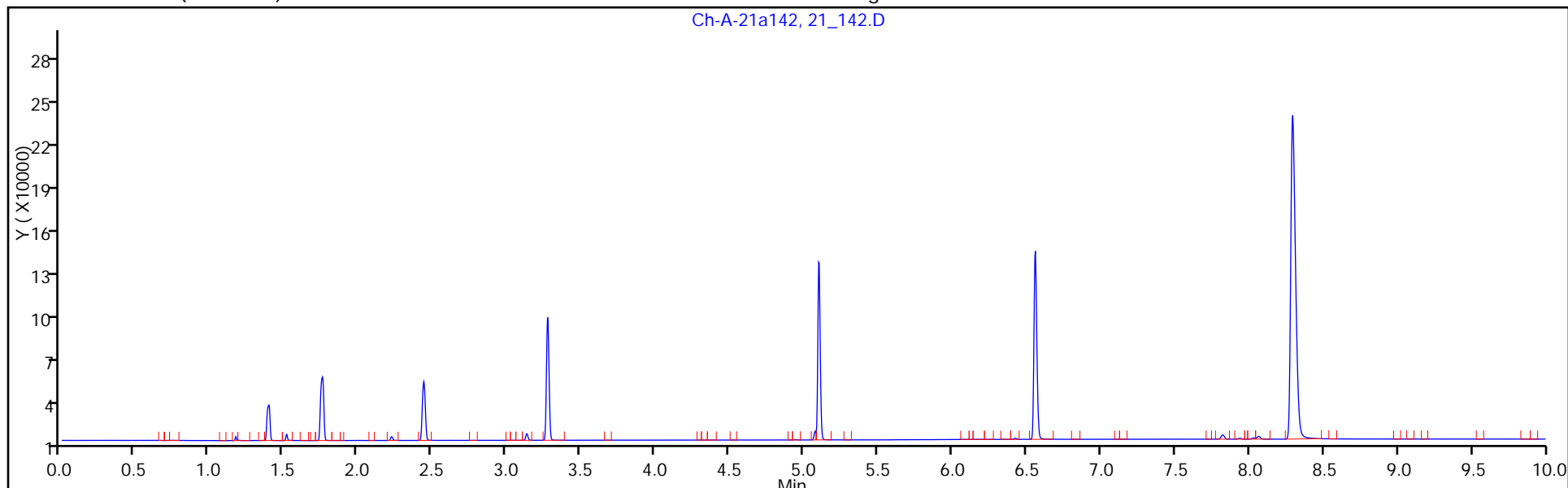
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

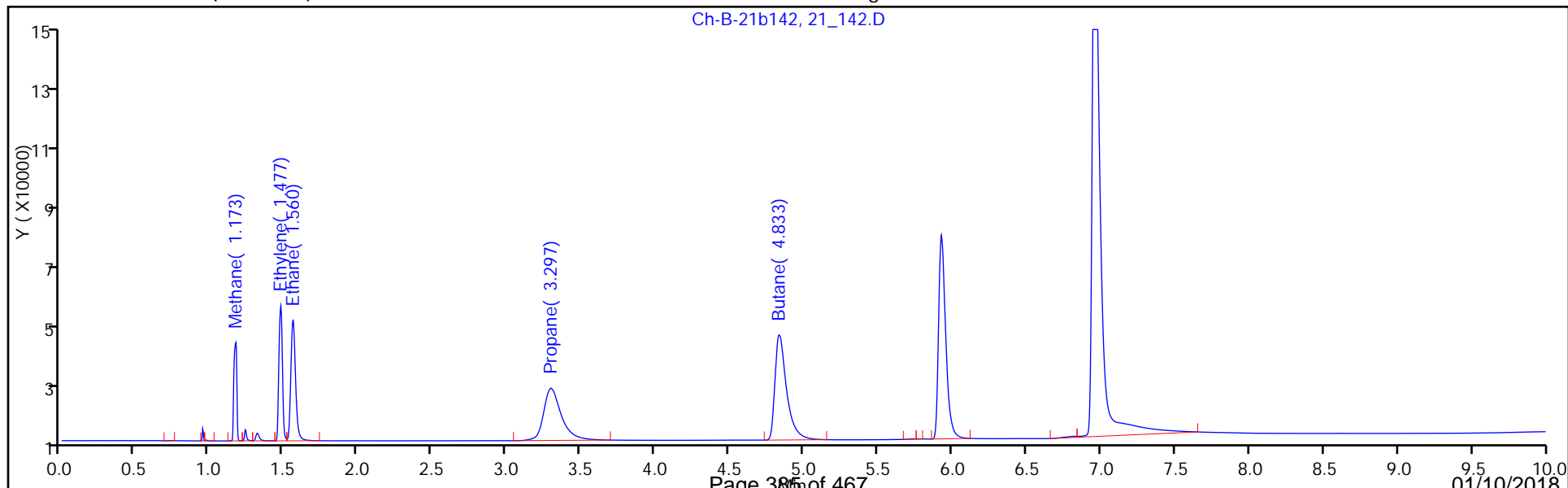
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	

2 Ethane

1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	

3 Ethylene

1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	

4 Propane

1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	

5 Butane

1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

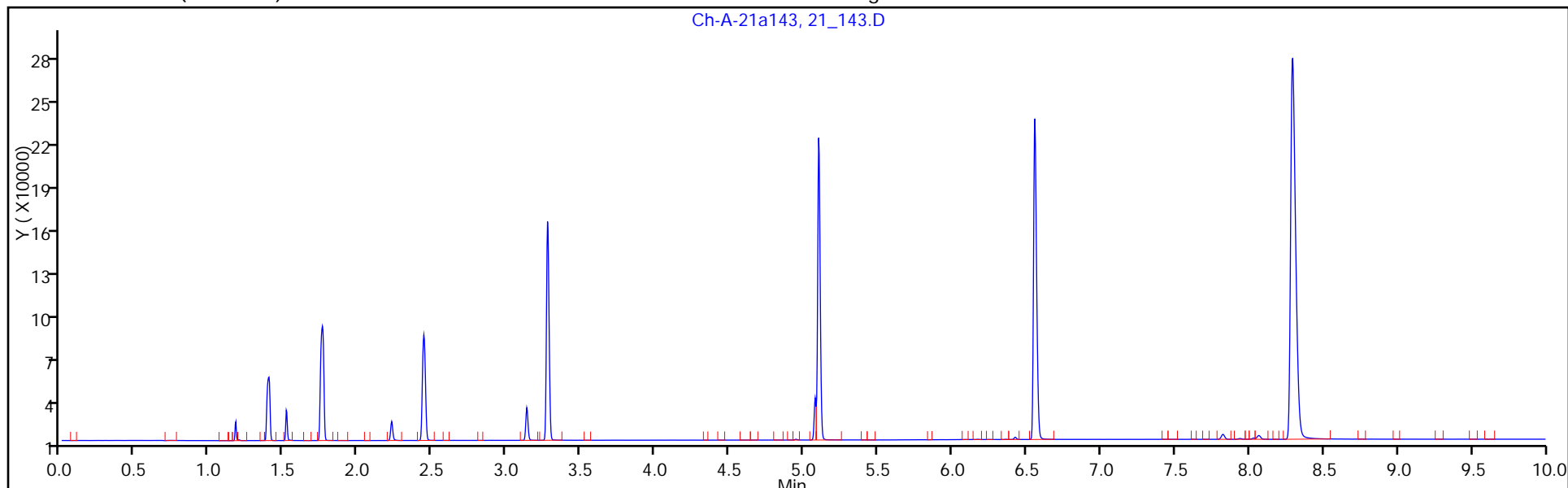
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

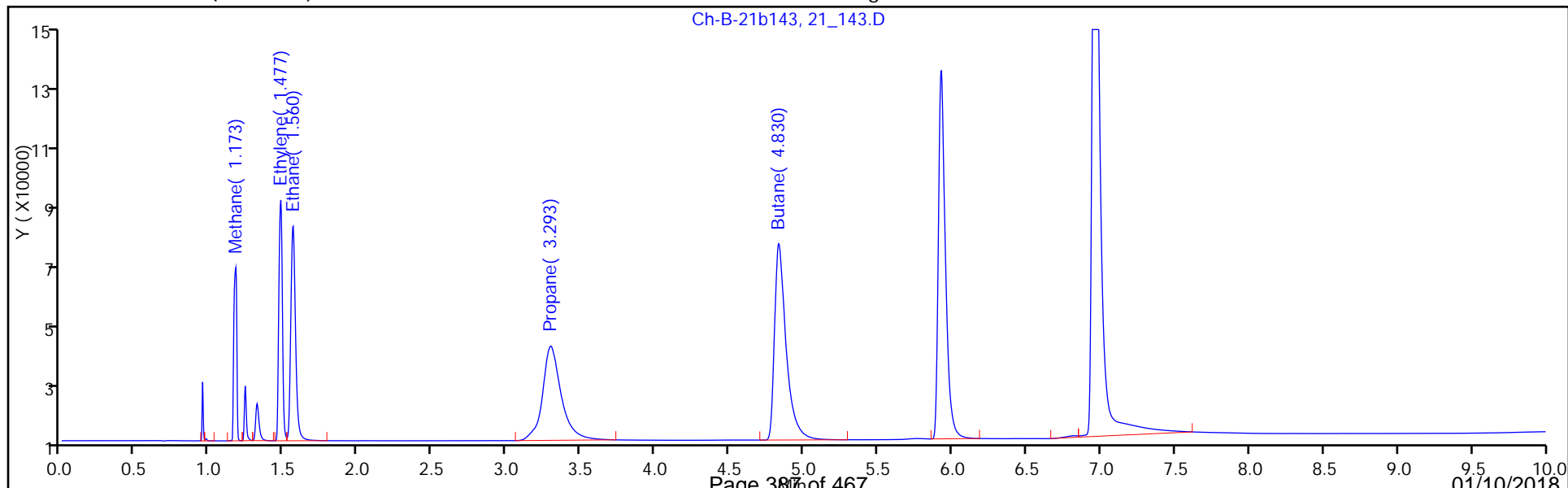
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	
2 Ethane							
1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	
3 Ethylene							
1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	
4 Propane							
1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	
5 Butane							
1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022 Amount Added: 200.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

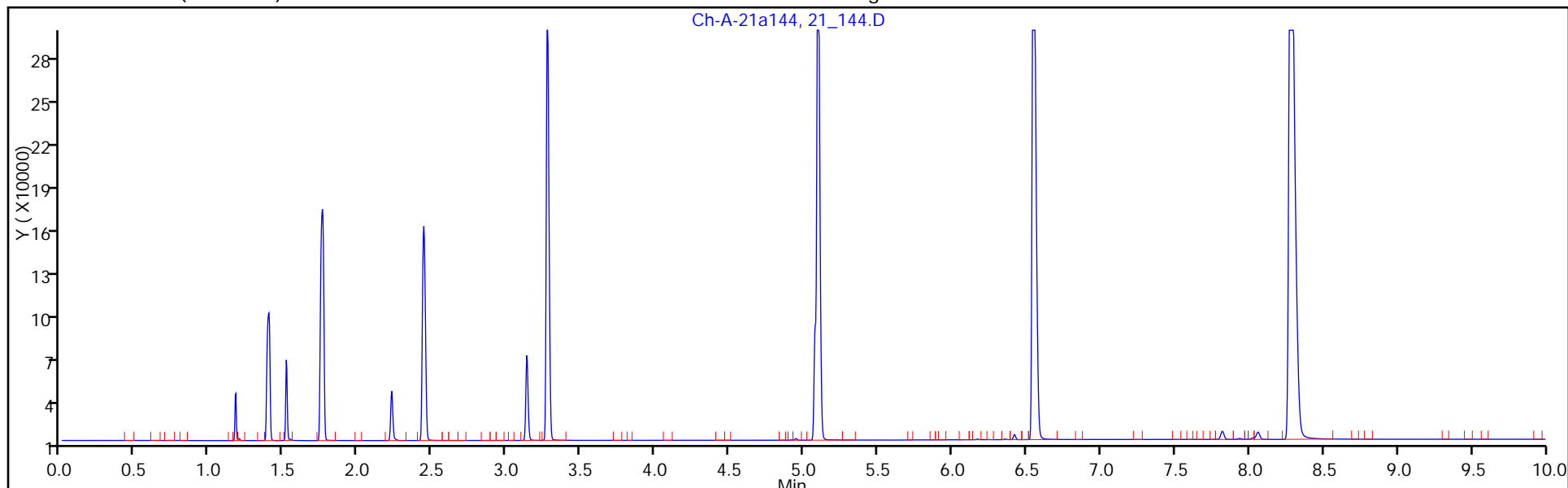
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

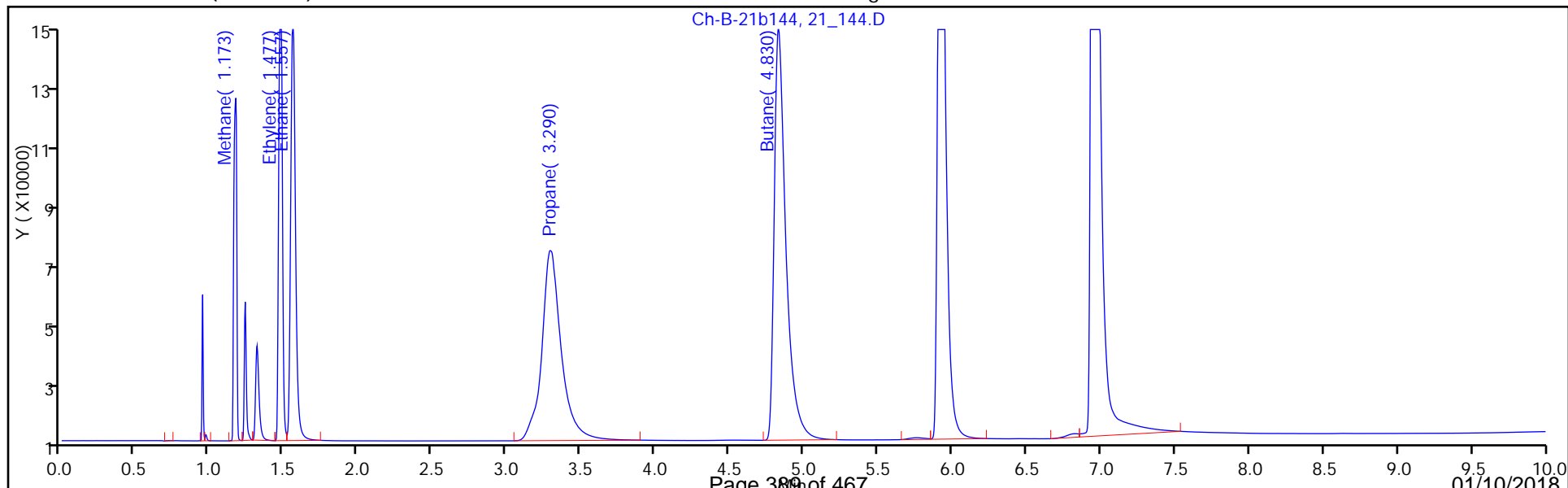
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	

2 Ethane

1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	

3 Ethylene

1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	

4 Propane

1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	

5 Butane

1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022 Amount Added: 400.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

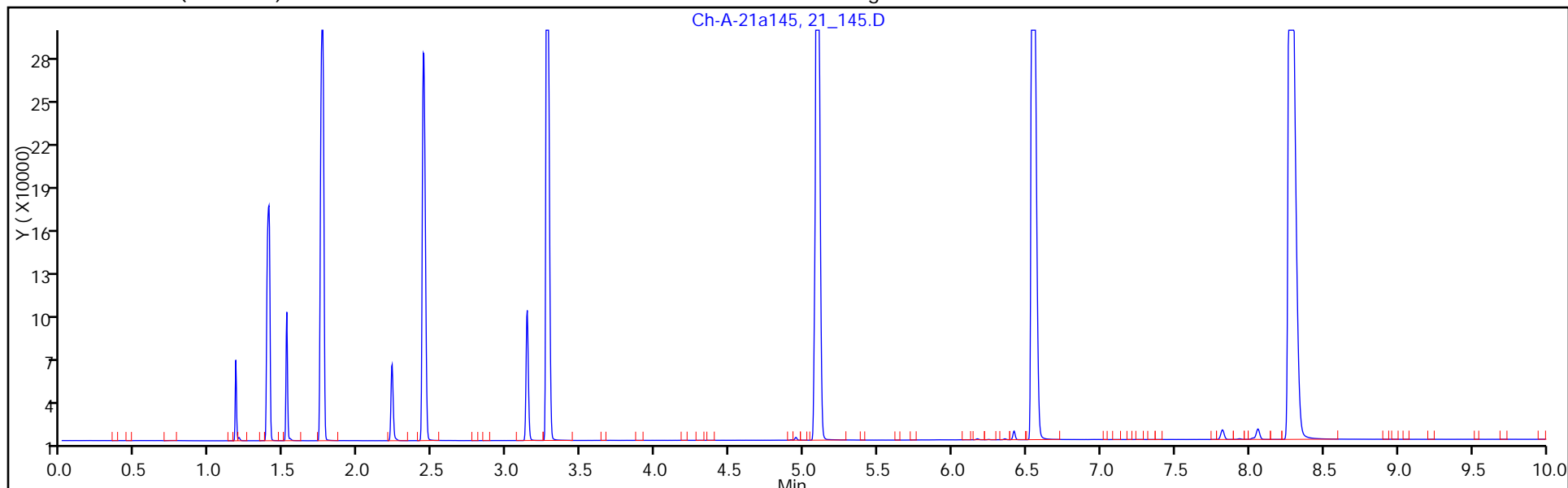
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

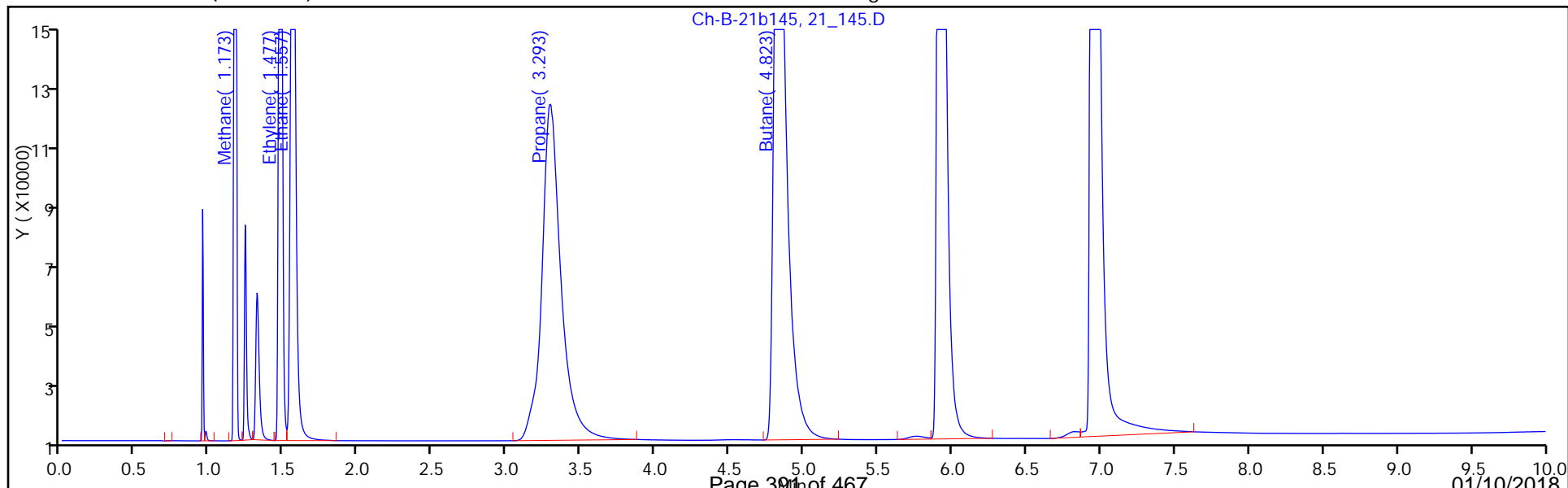
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	
2 Ethane							
1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	
3 Ethylene							
1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	
4 Propane							
1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	
5 Butane							
1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022 Amount Added: 600.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

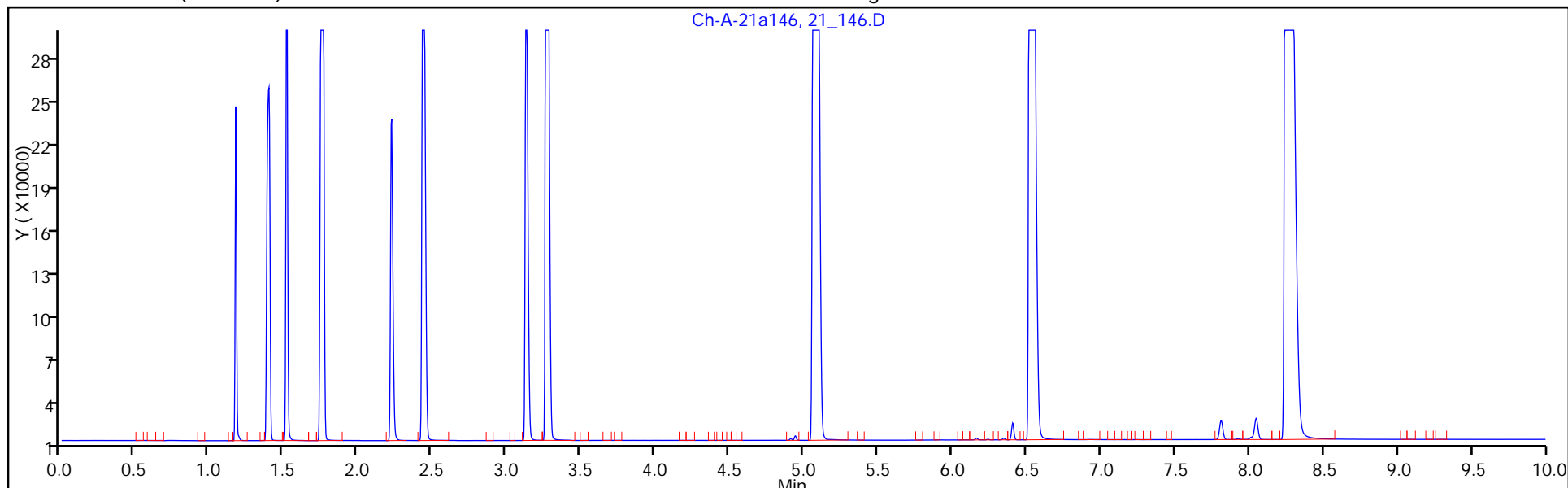
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

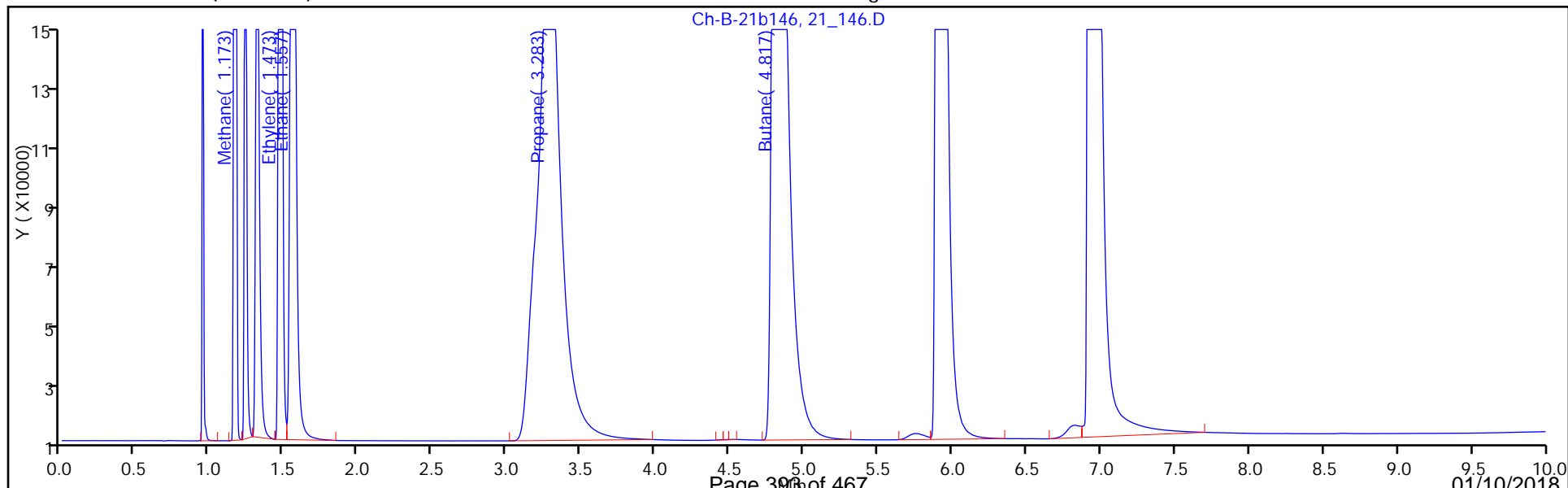
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	441234	310.8	306.7	M
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							
1	1.757	1.757	0.000	868187	582.7	563.1	M
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							
1	2.433	2.440	-0.007	737510	543.9	523.5	M
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 800.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

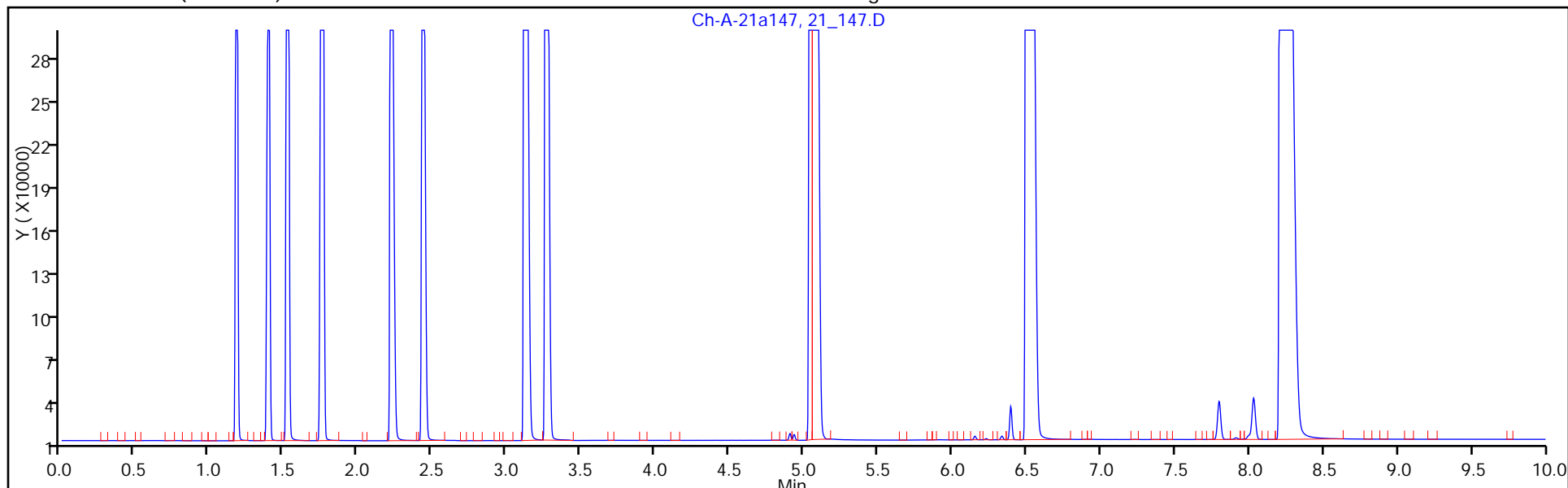
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

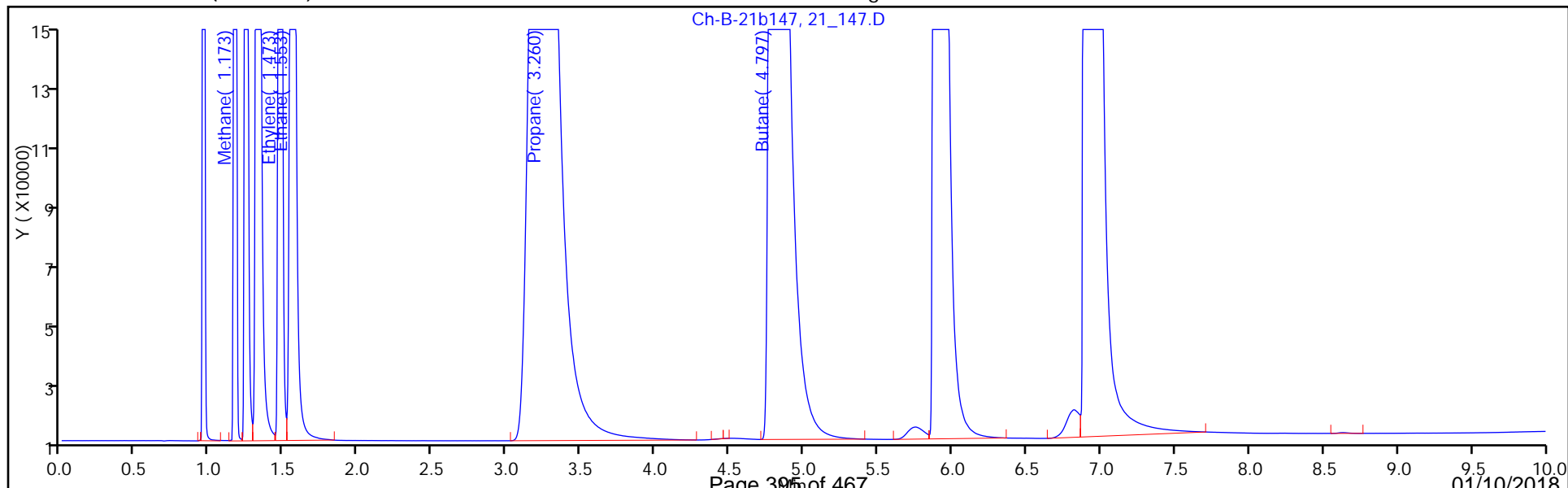
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	
2 Ethane							
1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	
3 Ethylene							
1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	
4 Propane							
1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M
5 Butane							
1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 1000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

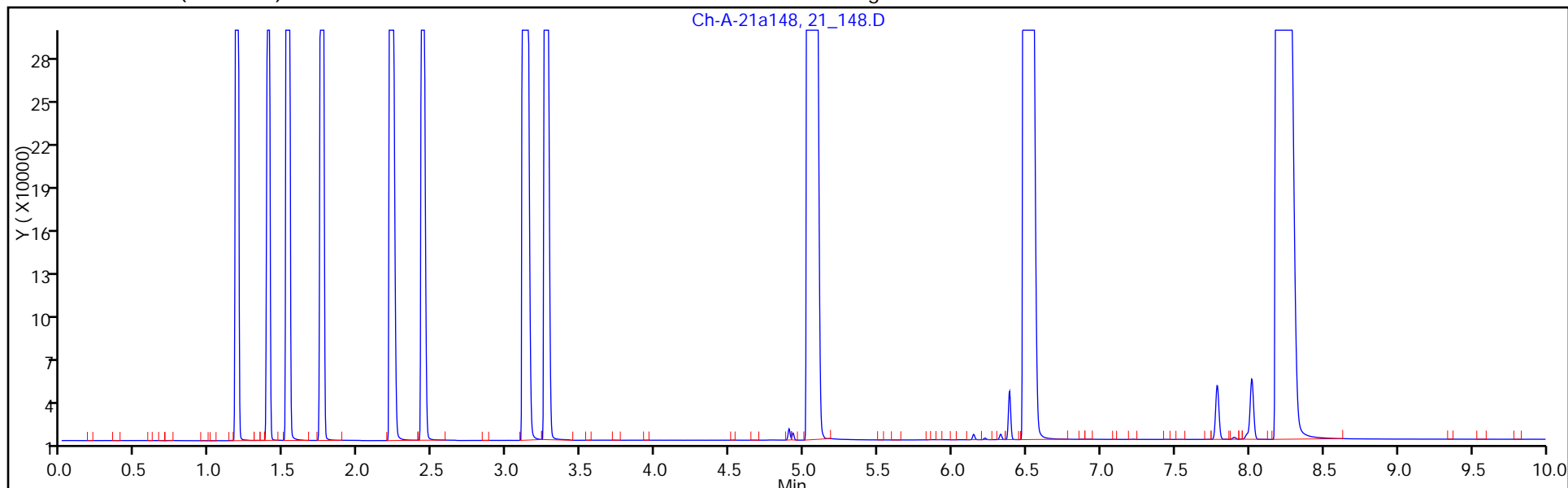
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

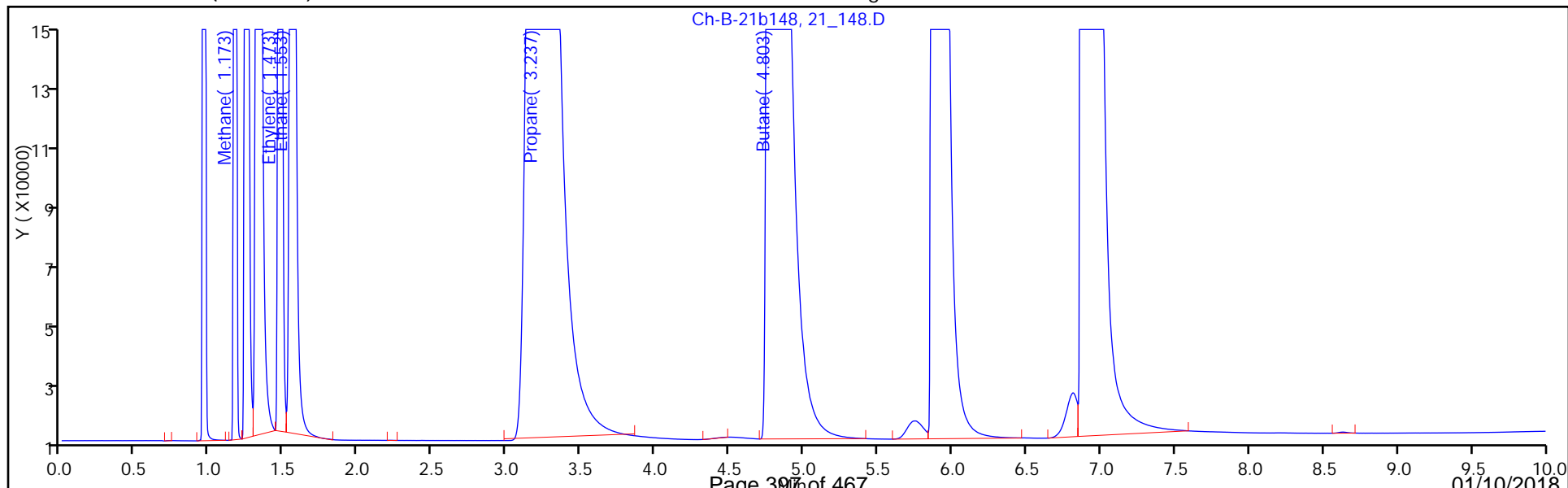
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

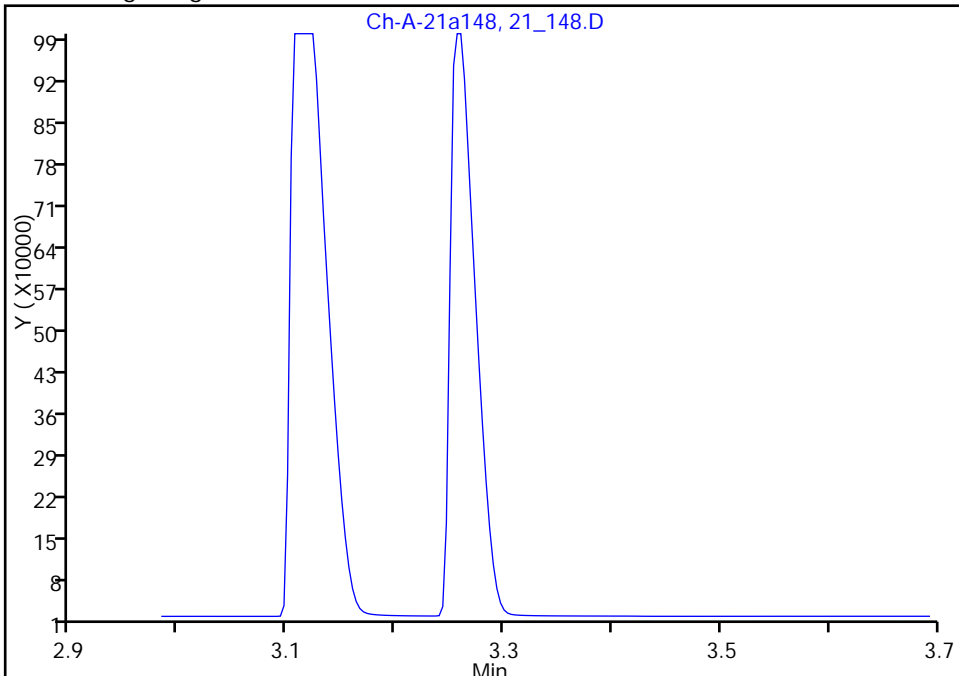
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

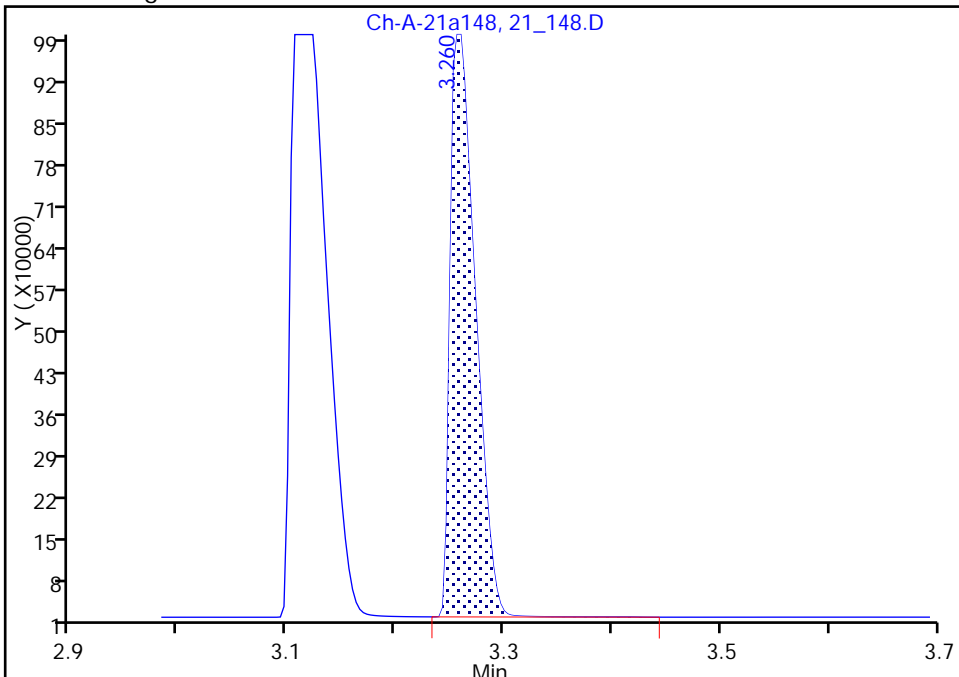
Not Detected
Expected RT: 3.27

Processing Integration Results



RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l

Manual Integration Results



Reviewer: gentnert, 12-Sep-2017 11:10:42
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCV 480-383922/6 Calibration Date: 10/26/2017 09:19
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_02_249.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1868		17.0	15.5	9.3	15.0
Ethane	Lin1		1952		32.1	29.1	10.1	15.0
Ethene	Lin1		1734		29.0	27.2	6.7	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCV 480-383922/6 Calibration Date: 10/26/2017 09:19
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_02_249.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.76	1.71	1.81
Ethene	2.47	2.42	2.52

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_249.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Oct-2017 09:19:59 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.393	1.393	0.000	29029	15.5	17.0	
2	1.173	1.173	0.000	38022	15.5	17.2	

2 Ethane

1	1.763	1.763	0.000	56871	29.1	32.1	
2	1.553	1.553	0.000	74787	29.1	32.6	

3 Ethylene

1	2.473	2.473	0.000	47155	27.2	29.0	
2	1.473	1.473	0.000	61230	27.2	29.6	

4 Propane

1	3.307	3.307	0.000	88040	42.7	47.3	
2	3.283	3.283	0.000	140791	42.7	53.1	

5 Butane

1	5.133	5.133	0.000	119811	55.8	59.4	
2	4.823	4.823	0.000	191762	55.8	72.3	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_249.D

Injection Date: 26-Oct-2017 09:19:59

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

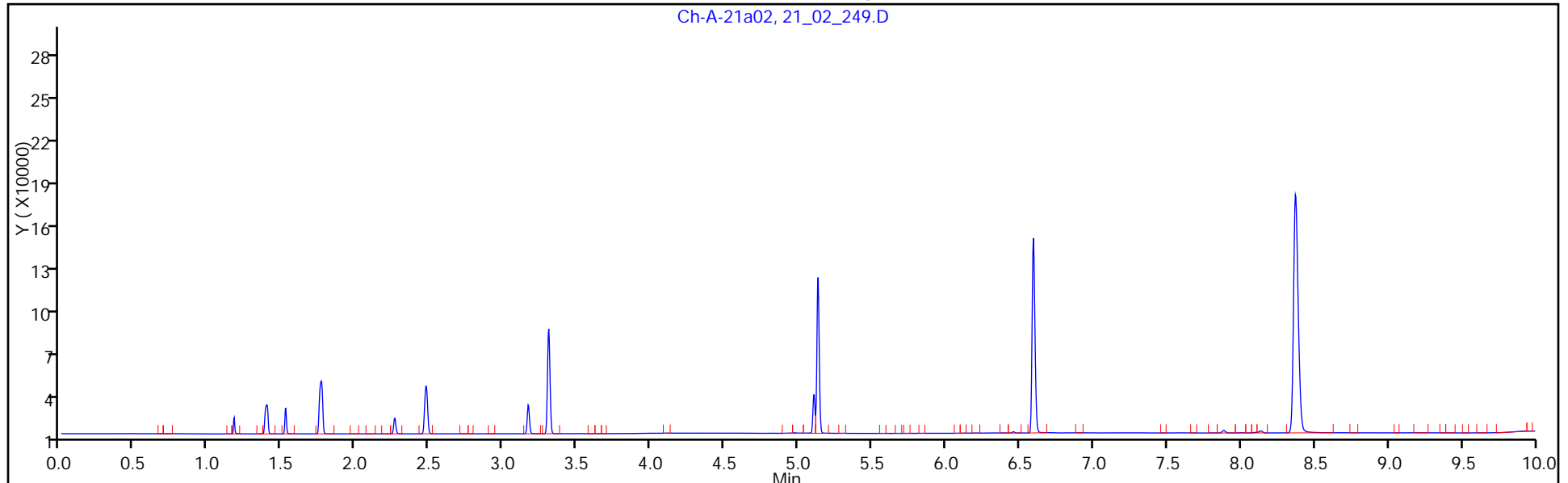
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

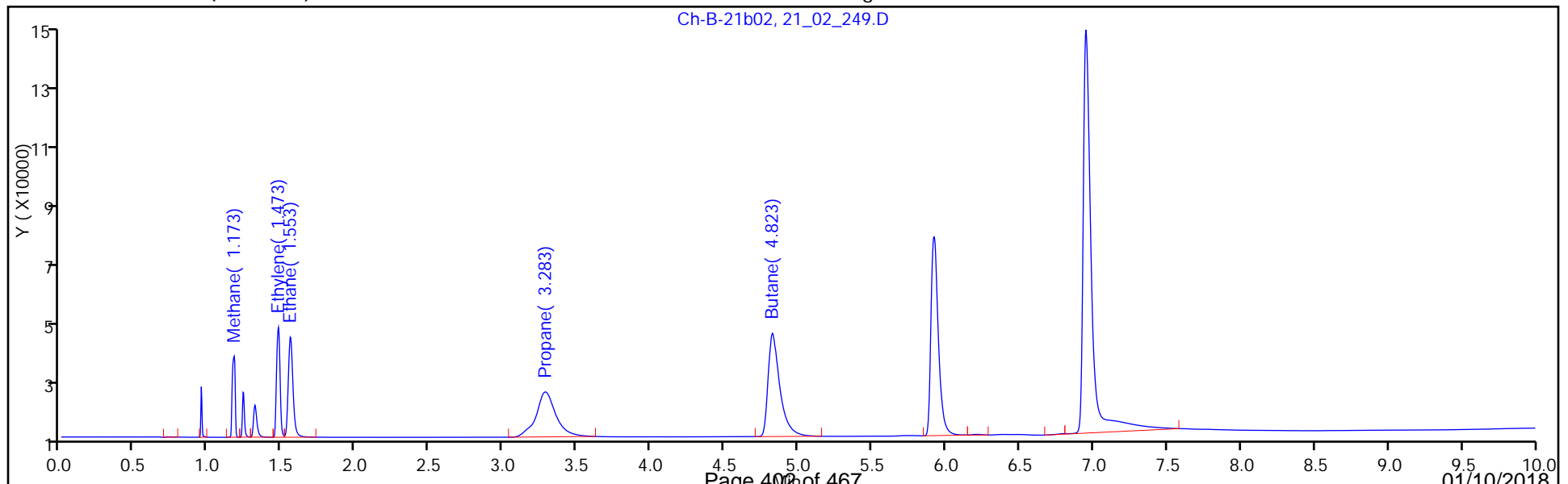
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCV 480-383922/23 Calibration Date: 10/26/2017 15:35
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_02_269.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1807		16.3	15.5	4.9	15.0
Ethane	Lin1		1848		30.1	29.1	3.3	15.0
Ethene	Lin1		1664		27.6	27.2	1.7	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Lab Sample ID: CCV 480-383922/23 Calibration Date: 10/26/2017 15:35
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_02_269.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.43	2.38	2.48

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_269.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 26-Oct-2017 15:35:53 ALS Bottle#: 0 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:50:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

First Level Reviewer: gentnert Date: 26-Oct-2017 15:48:15

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28071	15.5	16.3	
2	1.173	1.173	0.000	36608	15.5	16.4	
2 Ethane							
1	1.753	1.753	0.000	53850	29.1	30.1	
2	1.557	1.557	0.000	70673	29.1	30.5	
3 Ethylene							
1	2.427	2.427	0.000	45254	27.2	27.6	
2	1.473	1.473	0.000	58948	27.2	28.2	
4 Propane							
1	3.270	3.270	0.000	82960	42.7	44.2	
2	3.290	3.290	0.000	115029	42.7	42.5	
5 Butane							
1	5.100	5.100	0.000	112255	55.8	55.4	
2	4.830	4.830	0.000	154749	55.8	56.7	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_269.D

Injection Date: 26-Oct-2017 15:35:53

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

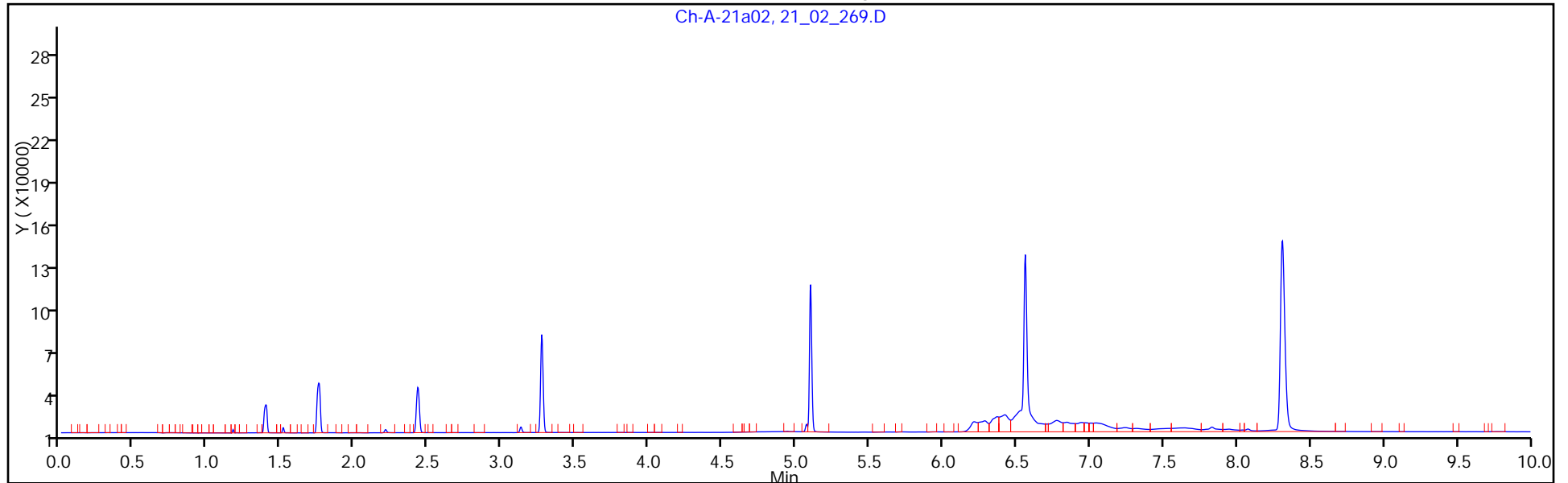
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

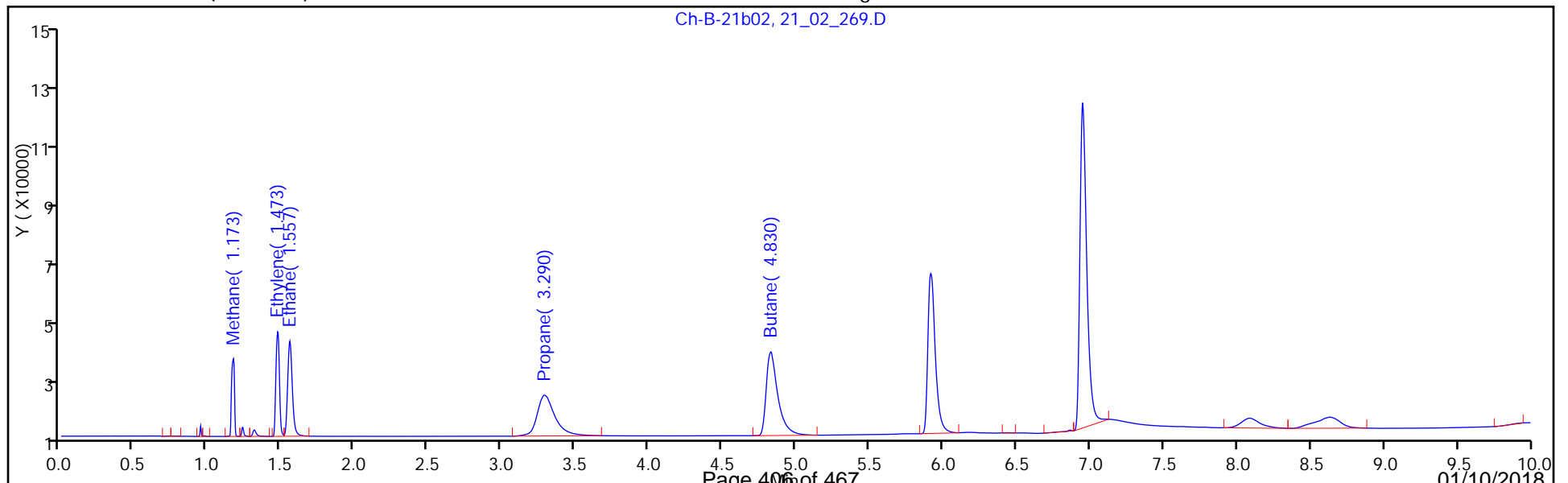
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-383922/2
 Matrix: Water Lab File ID: 21_02_250.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 10/26/2017 09:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_250.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Oct-2017 09:37:33 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.393	0.004	392		-3.15	
2	1.173	1.173	0.000	753		-3.91	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_250.D

Injection Date: 26-Oct-2017 09:37:33

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

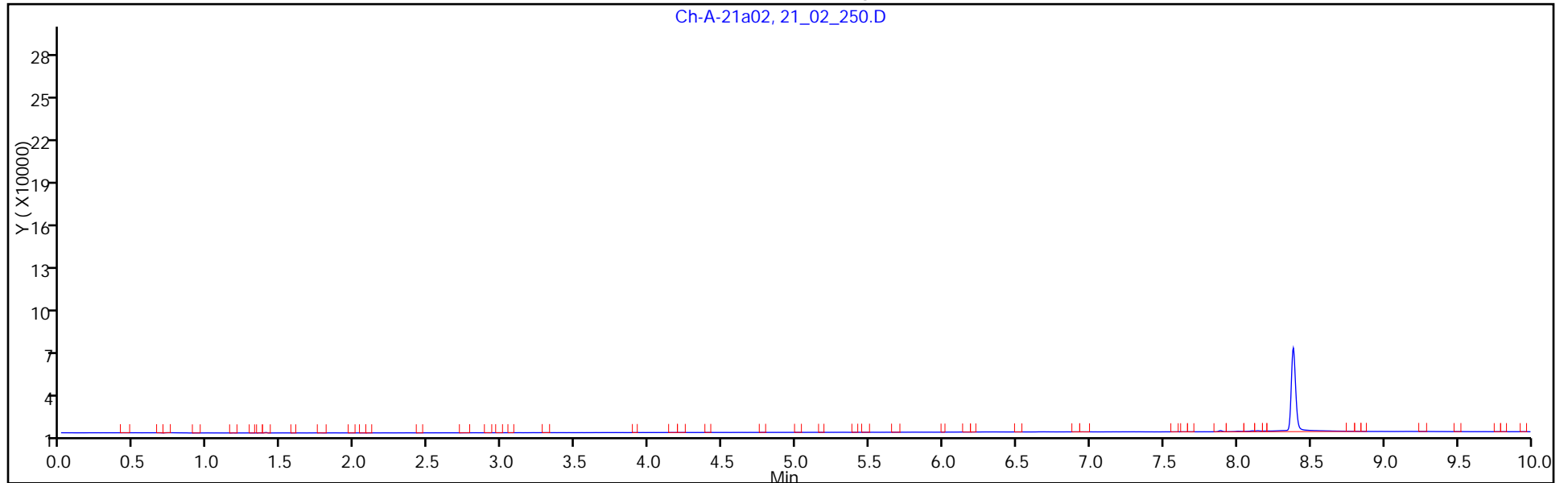
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

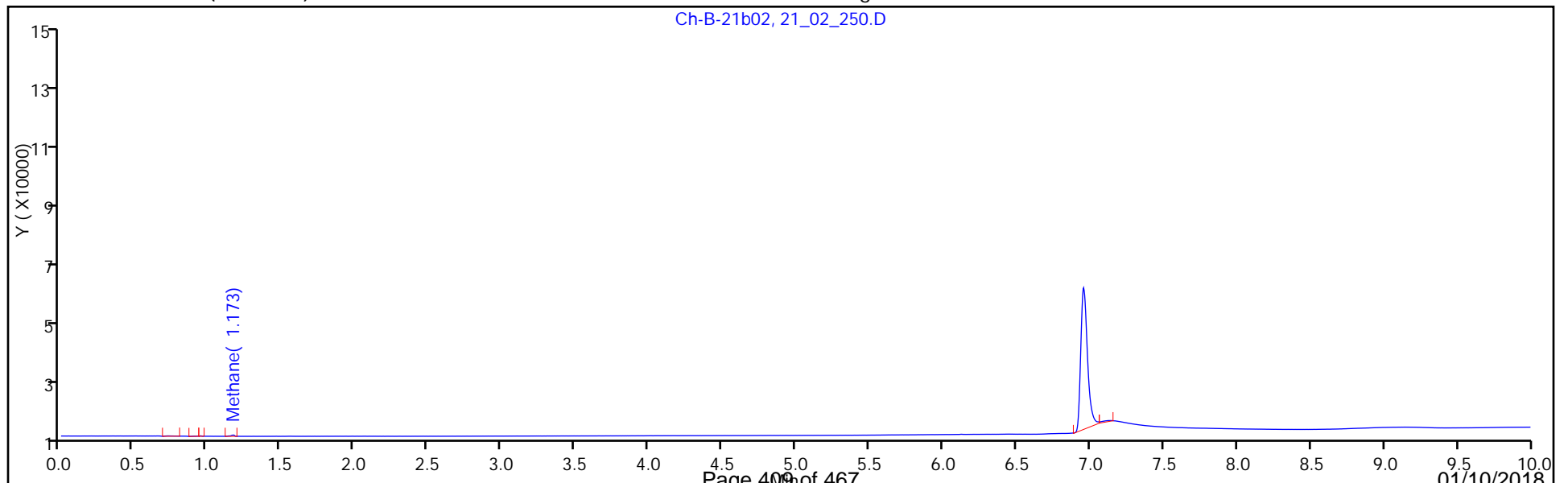
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-383922/3
 Matrix: Water Lab File ID: 21_02_251.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 10/26/2017 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	12.7		7.5	1.5
74-85-1	Ethene	11.8		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_251.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Oct-2017 09:55:03 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.393	0.004	14465	7.77	6.74	
2	1.173	1.173	0.000	19240	7.77	6.58	
2 Ethane							
1	1.763	1.763	0.000	27344	14.6	12.7	
2	1.557	1.553	0.004	36417	14.6	12.7	
3 Ethylene							
1	2.477	2.473	0.004	23140	13.6	11.8	
2	1.477	1.473	0.004	30365	13.6	11.6	
4 Propane							
1	3.307	3.307	0.000	41921	21.4	19.0	
2	3.290	3.283	0.007	56705	21.4	18.5	
5 Butane							
1	5.133	5.133	0.000	56326	27.9	25.4	
2	4.833	4.823	0.010	75642	27.9	23.5	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_251.D

Injection Date: 26-Oct-2017 09:55:03

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

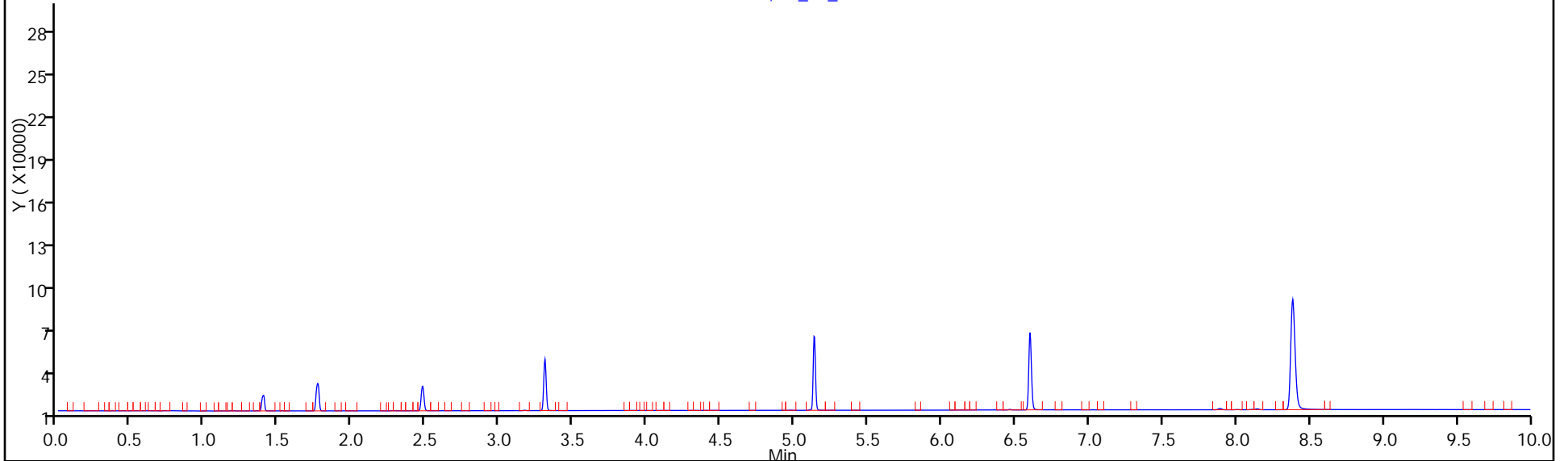
Method: RSK-175

Limit Group: GC - RSK175 ICAL

Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value

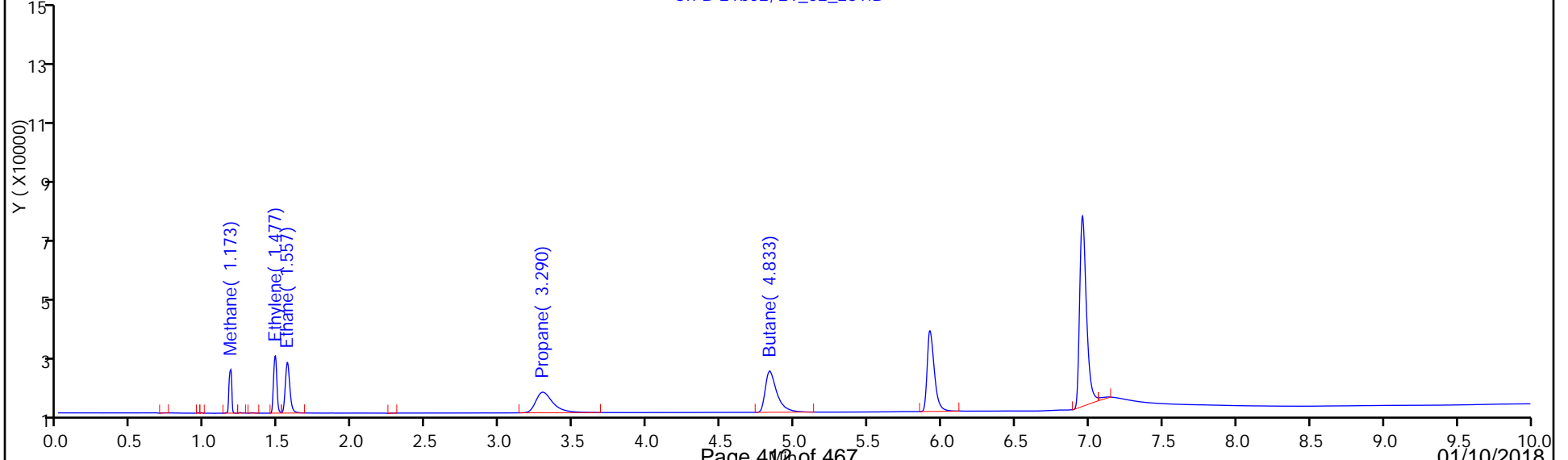
Ch-A-21a02, 21_02_251.D



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b02, 21_02_251.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-383922/4
 Matrix: Water Lab File ID: 21_02_252.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 10/26/2017 10:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 383922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	17.5		7.5	1.5
74-85-1	Ethene	15.6		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_252.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 26-Oct-2017 10:12:33 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 26-Oct-2017 15:49:52 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK003

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.393	0.004	17959	7.77	9.20	
2	1.173	1.173	0.000	23973	7.77	9.27	
2 Ethane							
1	1.763	1.763	0.000	34607	14.6	17.5	
2	1.557	1.553	0.004	46407	14.6	17.9	
3 Ethylene							
1	2.473	2.473	0.000	28367	13.6	15.6	
2	1.473	1.473	0.000	37347	13.6	15.7	
4 Propane							
1	3.307	3.307	0.000	53325	21.4	26.0	
2	3.293	3.283	0.010	79521	21.4	27.9	
5 Butane							
1	5.133	5.133	0.000	72122	27.9	33.8	
2	4.827	4.823	0.004	106066	27.9	36.3	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20171026-66718.b\21_02_252.D

Injection Date: 26-Oct-2017 10:12:33

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

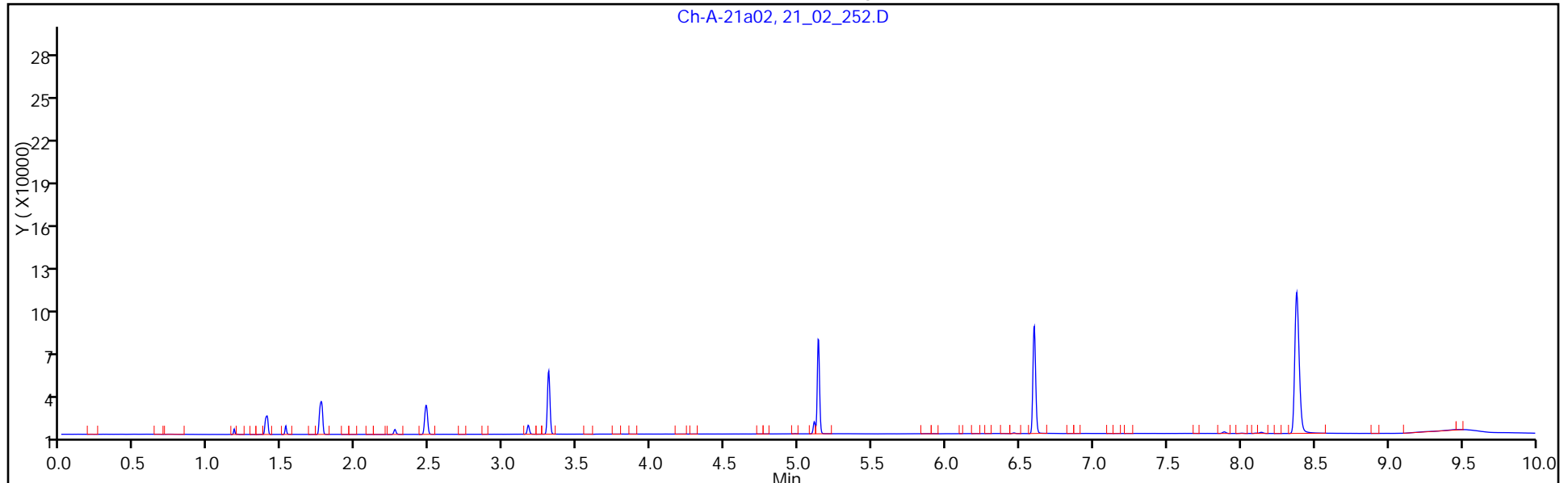
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

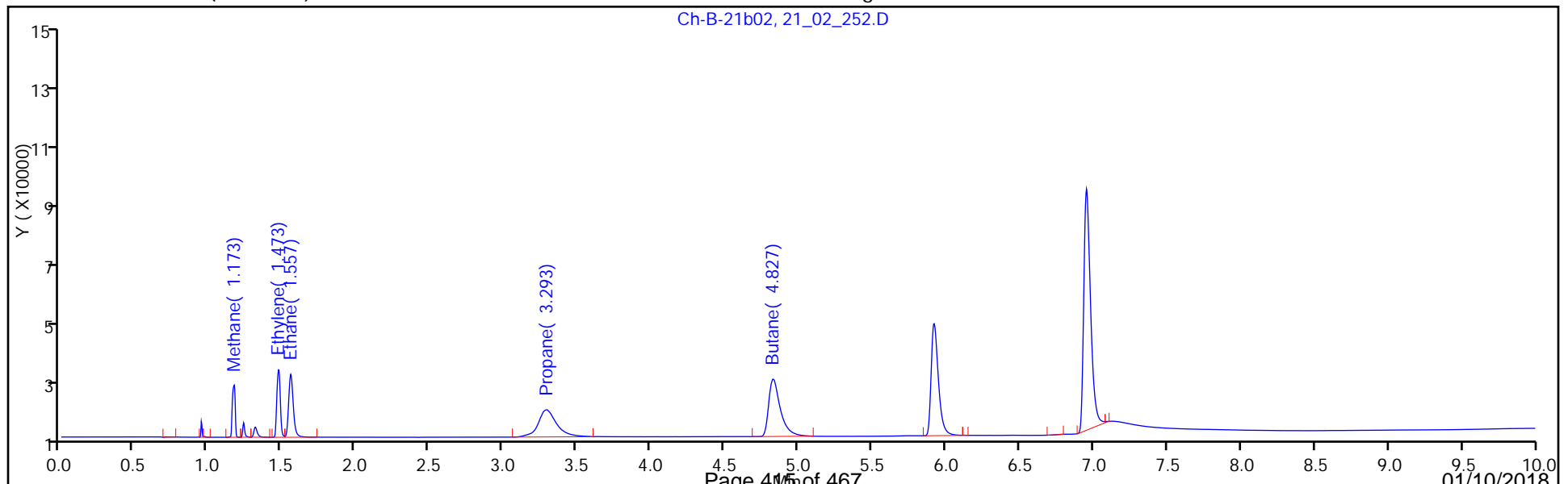
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-126300-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 09/12/2017 08:34Analysis Batch Number: 376268End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-126300-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 10/26/2017 09:19Analysis Batch Number: 383922End Date: 10/26/2017 15:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-383922/6		10/26/2017 09:19	1	21_02_249.D	Alumina 0.53 (mm)
CCV 480-383922/6		10/26/2017 09:19	1		RTX-U Plot 0.32 (mm)
MB 480-383922/2		10/26/2017 09:37	1	21_02_250.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 09:37	1		RTX-U Plot 0.32 (mm)
LCS 480-383922/3		10/26/2017 09:55	1	21_02_251.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 09:55	1		RTX-U Plot 0.32 (mm)
LCSD 480-383922/4		10/26/2017 10:12	1	21_02_252.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 10:12	1		RTX-U Plot 0.32 (mm)
480-126300-1		10/26/2017 10:55	1	21_02_253.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 10:55	1		RTX-U Plot 0.32 (mm)
480-126300-2		10/26/2017 11:13	1	21_02_254.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 11:13	1		RTX-U Plot 0.32 (mm)
480-126300-3		10/26/2017 11:30	1	21_02_255.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 11:30	1		RTX-U Plot 0.32 (mm)
480-126300-4		10/26/2017 11:48	1	21_02_256.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 11:48	1		RTX-U Plot 0.32 (mm)
480-126300-5		10/26/2017 12:05	1	21_02_257.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 12:05	1		RTX-U Plot 0.32 (mm)
480-126300-6		10/26/2017 12:23	1	21_02_258.D	Alumina 0.53 (mm)
ZZZZZ		10/26/2017 12:23	1		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 12:40	1		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 12:40	1		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 13:33	1		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 13:33	1		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 14:08	1		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 14:08	1		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 14:25	1		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 14:25	1		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 14:43	22		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 14:43	22		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 15:00	22		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 15:00	22		RTX-U Plot 0.32 (mm)
ZZZZZ		10/26/2017 15:18	11		Alumina 0.53 (mm)
ZZZZZ		10/26/2017 15:18	11		RTX-U Plot 0.32 (mm)
CCV 480-383922/23		10/26/2017 15:35	1	21_02_269.D	Alumina 0.53 (mm)
CCV 480-383922/23		10/26/2017 15:35	1		RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-126300-1

SDG No.: _____

Project: Former Emerson Street Landfill Project

Client Sample ID	Lab Sample ID
<u>ML-2S</u>	<u>480-126300-1</u>
<u>ML-2I</u>	<u>480-126300-2</u>
<u>ML-2D</u>	<u>480-126300-3</u>
<u>ML-7S</u>	<u>480-126300-4</u>
<u>ML-7I</u>	<u>480-126300-5</u>
<u>ML-7D</u>	<u>480-126300-6</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-2S

Lab Sample ID: 480-126300-1

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG ID.: _____

Matrix: Water

Date Sampled: 10/19/2017 08:45

Reporting Basis: WET

Date Received: 10/21/2017 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-2I

Lab Sample ID: 480-126300-2

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG ID.: _____

Matrix: Water

Date Sampled: 10/18/2017 12:55

Reporting Basis: WET

Date Received: 10/21/2017 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
15438-31-0	Ferrous Iron	0.099	0.10	0.075	mg/L	J	HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-2D

Lab Sample ID: 480-126300-3

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG ID.: _____

Matrix: Water

Date Sampled: 10/18/2017 15:50

Reporting Basis: WET

Date Received: 10/21/2017 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-7S

Lab Sample ID: 480-126300-4

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG ID.: _____

Matrix: Water

Date Sampled: 10/19/2017 12:20

Reporting Basis: WET

Date Received: 10/21/2017 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-7I

Lab Sample ID: 480-126300-5

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG ID.: _____

Matrix: Water

Date Sampled: 10/19/2017 14:40

Reporting Basis: WET

Date Received: 10/21/2017 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate	7.5	0.050	0.020	mg/L as N		H	1	353.2
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-7D

Lab Sample ID: 480-126300-6

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG ID.: _____

Matrix: Water

Date Sampled: 10/20/2017 10:20

Reporting Basis: WET

Date Received: 10/21/2017 08:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate	34.1	0.050	0.020	mg/L as N			1	353.2
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Analyst: LED Batch Start Date: 10/28/2017
 Reporting Units: mg/L Analytical Batch No.: 384412

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	12:54	Ferrous Iron	2.04	2.00	102	90-110		FE 200ppm Cal 00007
2	CCB	12:54	Ferrous Iron	ND					
13	CCV	12:54	Ferrous Iron	2.13	2.00	107	90-110		FE 200ppm Cal 00007
14	CCB	12:54	Ferrous Iron	ND					
21	CCV	12:54	Ferrous Iron	2.02	2.00	101	90-110		FE 200ppm Cal 00007
22	CCB	12:54	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-126300-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 384412 Date: 10/28/2017 12:54							
SM 3500 FE MB 480-384412/3 D		Ferrous Iron	ND		mg/L	0.10	1

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 384412 Date: 10/28/2017 12:54											
						LCS Source: FE 200ppm Cal_00007					
SM 3500	LCS	Ferrous Iron	2.08		mg/L	2.00	104	90-110			
FE D	480-384412/4										

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-126300-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-126300-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-126300-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D MDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.075

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-126300-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 10/21/2017 11:30 End Date: 10/21/2017 12:50

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
480-126300-4	1	T	11:30	X															
480-126300-2	1	T	11:34	X															
480-126300-1	1	T	11:42	X															
480-126300-3	1	T	11:44	X															
ZZZZZZ			11:58																
ZZZZZZ			11:59																
ZZZZZZ			12:00																
ZZZZZZ			12:01																
ZZZZZZ			12:02																
ZZZZZZ			12:04																
ZZZZZZ			12:09																
ZZZZZZ			12:11																
ZZZZZZ			12:30																
ZZZZZZ			12:31																
ZZZZZZ			12:32																
ZZZZZZ			12:33																
ZZZZZZ			12:41																
ZZZZZZ			12:42																
ZZZZZZ			12:43																
ZZZZZZ			12:44																
ZZZZZZ			12:46																
ZZZZZZ			12:47																
ZZZZZZ			12:48																
ZZZZZZ			12:49																
ZZZZZZ			12:50																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 10/21/2017 14:42 End Date: 10/21/2017 16:11

Lab Sample ID	D / F	Type	Time	Analytes															
				N O 3															
480-126300-5	1	T	14:42	X															
480-126300-6	1	T	14:43	X															
ZZZZZZ			14:45																
ZZZZZZ			14:48																
ZZZZZZ			14:52																
ZZZZZZ			14:53																
ZZZZZZ			14:54																
ZZZZZZ			14:55																
ZZZZZZ			14:57																
ZZZZZZ			14:58																
ZZZZZZ			14:59																
ZZZZZZ			15:00																
ZZZZZZ			15:01																
ZZZZZZ			15:08																
ZZZZZZ			15:09																
ZZZZZZ			15:10																
ZZZZZZ			15:11																
ZZZZZZ			15:13																
ZZZZZZ			15:15																
ZZZZZZ			15:19																
ZZZZZZ			15:21																
ZZZZZZ			15:22																
ZZZZZZ			15:23																
ZZZZZZ			15:24																
ZZZZZZ			15:25																
ZZZZZZ			15:26																
ZZZZZZ			15:27																
ZZZZZZ			15:29																
ZZZZZZ			15:35																
ZZZZZZ			15:37																
ZZZZZZ			15:38																
ZZZZZZ			15:39																
ZZZZZZ			15:40																
ZZZZZZ			15:42																
ZZZZZZ			15:47																
ZZZZZZ			15:48																
ZZZZZZ			15:49																
ZZZZZZ			15:50																
ZZZZZZ			15:51																
ZZZZZZ			15:53																
ZZZZZZ			15:54																
ZZZZZZ			15:55																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 10/21/2017 14:42 End Date: 10/21/2017 16:11

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
ZZZZZZ			15:56																
ZZZZZZ			16:04																
ZZZZZZ			16:05																
ZZZZZZ			16:06																
ZZZZZZ			16:07																
ZZZZZZ			16:11																

Prep Types
T = Total/NA

Batch: 383102, 383103
 (NO₂) (NO₂)
 383150, 383151
 (not run) (NO₂ calc)

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO ₃ /NO ₂ 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	3878175	Exp. 05/31/2018
Nitrite 1000mg/L STD (CAL)	3847174	Exp. 01/31/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4021279	Exp. 12/31/2017
Nitrate, Nitrate/Nitrite Int STD (MS)	4321573	Exp. 10/28/2017
Nitrite Int STD(MS)	4305770	Exp. 10/23/2017
Nitrate 1.5ppm CCV/ICV/LCS	4321571	Exp. 10/22/2017
Nitrite 1.5ppm CCV/ICV/LCS	4321572	Exp. 10/22/2017
Ammonium Chloride Buffer	4302522	Exp. 11/13/2017
Color Reagent	4291290	Exp. 11/10/2017
1:4 Ammonium Hydroxide	4264855	Exp. 03/26/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
 Control Limits = 90-110%
 (1.35 mg/L -1.65 mg/L)

MB/CCB = 0.0mg/L
 Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
 Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples SSS 10-22-17

Batch: 383102

Author: BufLachat3

Date: 10/21/2017

Original Run Filename: OM_10-21-2017_11-23-57AM.OMN Created: 10/21/2017 11:23:57 AM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_10-21-2017_11-23-57AM.OMN Last Modified: 10/21/2017 12:20:16 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.50	4.28	0.393	10/21/2017@11:25:02 AM	
Calibration:			Table/Fig.: 1				
CCV	1	S9	1.52	4.34	0.399	10/21/2017@11:26:10 AM	
Known Conc:			1.50				
CCB	1	S10	-8.84e-3	-0.0549	-4.75e-3	10/21/2017@11:27:19 AM	
Known Conc:			0.00				
MB	1	S10	-0.0204	-0.0681	-6.03e-3	10/21/2017@11:28:27 AM	
Known Conc:			0.00				
LCS	1	S9	1.54	4.39	0.405	10/21/2017@11:29:35 AM	
Known Conc:			1.50				
480-126300-b-4	1	1	-0.0140	-0.0697	-6.26e-3	10/21/2017@11:30:44 AM	
480-126301-k-1	1	2	0.109	0.283	0.0245	10/21/2017@11:31:53 AM	
480-126301-k-2	1	3	0.0574	0.135	0.0124	10/21/2017@11:33:02 AM	
480-126300-b-2	1	4	-2.23e-3	-0.0359	-3.37e-3	10/21/2017@11:34:11 AM	
480-126302-f-1	1	5	0.0653	0.158	0.0148	10/21/2017@11:35:20 AM	
480-126302-f-1 DU	1	6	0.0639	0.154	0.0137	10/21/2017@11:36:29 AM	
480-126302-f-2	1	7	0.0550	0.128	0.0113	10/21/2017@11:37:38 AM	
480-126302-f-2 MS	1	8	1.11	3.16	0.290	10/21/2017@11:38:46 AM	
CCV	1	S9	1.54	4.39	0.403	10/21/2017@11:39:54 AM	
Known Conc:			1.50				
CCB	1	S10	-5.67e-3	-0.0458	-3.89e-3	10/21/2017@11:41:02 AM	
Known Conc:			0.00				
480-126300-b-1	1	9	-0.0212	-0.0904	-5.66e-3	10/21/2017@11:42:11 AM	
480-126300-b-5	1	10	11.4	32.7	2.98	10/21/2017@11:43:19 AM	
480-126300-b-3	1	11	-8.33e-4	-0.0319	-3.13e-3	10/21/2017@11:44:27 AM	
480-126300-b-6	1	12	31.7	91.1	6.27	10/21/2017@11:45:35 AM	
480-126299-i-1	1	13	1.80	5.15	0.473	10/21/2017@11:46:43 AM	
480-126252-d-1	1	14	2.70	7.72	0.713	10/21/2017@11:47:50 AM	
480-126252-d-2	1	15	0.210	0.573	0.0536	10/21/2017@11:48:58 AM	
480-126252-d-3	1	16	0.736	2.08	0.192	10/21/2017@11:50:07 AM	
480-126252-d-4	1	17	2.48	7.09	0.656	10/21/2017@11:51:16 AM	
480-126252-d-4 MS	1	18	3.44	9.85	0.911	10/21/2017@11:52:25 AM	
CCV	1	S9	1.53	4.36	0.405	10/21/2017@11:53:33 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0169	-0.0780	-5.24e-3	10/21/2017@11:54:42 AM	
Known Conc:			0.00				
MB	1	S10	-0.0118	-0.0634	-4.23e-3	10/21/2017@11:55:50 AM	
Known Conc:			0.00				
LCS	1	S9	1.54	4.40	0.403	10/21/2017@11:56:58 AM	
Known Conc:			1.50				
480-126264-g-1	1	19	-5.58e-3	-0.0455	-3.83e-3	10/21/2017@11:58:07 AM	
480-126264-g-2	1	20	-0.0102	-0.0588	-4.16e-3	10/21/2017@11:59:16 AM	
480-126264-g-3	1	21	-0.0211	-0.0901	-5.99e-3	10/21/2017@12:00:25 PM	
480-126264-g-4	1	22	-1.65e-3	-0.0343	-2.69e-3	10/21/2017@12:01:33 PM	
480-126264-g-5	1	23	0.0369	0.0765	7.64e-3	10/21/2017@12:02:42 PM	
480-126264-g-5 DU	1	24	0.0355	0.0725	5.64e-3	10/21/2017@12:03:50 PM	
480-126264-g-6	1	25	-0.0130	-0.0669	-4.72e-3	10/21/2017@12:04:59 PM	
480-126264-g-6 MS	1	26	1.05	2.98	0.272	10/21/2017@12:06:07 PM	
CCV	1	S9	1.54	4.39	0.405	10/21/2017@12:07:15 PM	
Known Conc:			1.50				
CCB	1	S10	3.85e-3	-0.0185	-3.06e-3	10/21/2017@12:08:24 PM	
Known Conc:			0.00				
480-126290-I-1	1	27	6.48e-3	-0.0109	-2.18e-3	10/21/2017@12:09:32 PM	
480-126290-I-2	1	28	1.39	3.96	0.366	10/21/2017@12:10:40 PM	
480-126290-I-3	1	29	-0.0242	-0.0990	-5.42e-3	10/21/2017@12:11:47 PM	
480-126282-a-1	1	30	1.15	3.26	0.301	10/21/2017@12:12:55 PM	
480-126282-a-2	1	31	0.0590	0.140	0.0126	10/21/2017@12:14:04 PM	
480-126282-a-3	1	32	0.0977	0.251	0.0222	10/21/2017@12:15:13 PM	

480-126282-a-3 MS	1	33	1.13	3.21	0.294	10/21/2017@12:16:22 PM
CCV	1	S9	1.55	4.41	0.409	10/21/2017@12:17:30 PM
		Known Conc:	1.50			
CCB	1	S10	-0.0219	-0.0924	-6.01e-3	10/21/2017@12:18:38 PM
		Known Conc:	0.00			

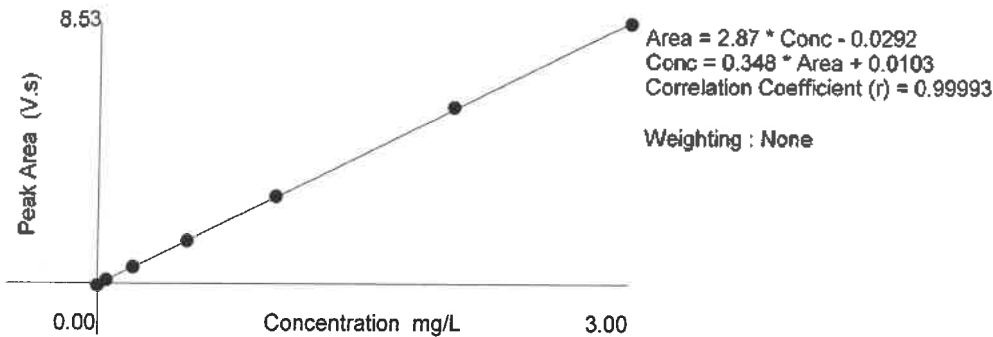
Analyte Properties Table for : OM_10-21-2017_11-23-57AM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.53	0.768	0.0	0.6	2.98	10/20/2017	8:41:30 PM
2	2.00	1	5.78	0.518	0.0	-1.1	2.02	10/20/2017	8:42:39 PM
3	1.00	1	2.86	0.257	0.0	-0.8	1.01	10/20/2017	8:43:47 PM
4	0.500	1	1.41	0.127	0.0	0.1	0.500	10/20/2017	8:44:56 PM
5	0.200	1	0.546	0.0488	0.0	-0.2	0.201	10/20/2017	8:46:06 PM
6	0.0500	1	0.111	0.0105	0.0	3.3	0.0488	10/20/2017	8:47:15 PM
7	0.00	1	-0.0628	-6.03e-3			-0.0116	10/20/2017	8:48:24 PM

Figure : 1 (Nitrate/Nitrite)



Batch: 383103

Author: BufLachat3

Date: 10/21/2017

Original Run Filename: OM_10-21-2017_12-25-00PM.OMN Created: 10/21/2017 12:25:00 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_10-21-2017_12-25-00PM.OMN Last Modified: 10/21/2017 1:10:30 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.53	4.47	0.478	10/21/2017@12:26:05 PM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-4.29e-3	-0.101	-7.25e-3	10/21/2017@12:27:11 PM	
		Known Conc:	100				
MB	1	S10	-4.70e-4	-0.0859	-6.04e-3	10/21/2017@12:28:17 PM	
		Known Conc:	100				
LCS	1	S11	1.52	4.43	0.473	10/21/2017@12:29:24 PM	
		Known Conc:	100				
480-126301-k-2	1	1	-1.81e-3	-0.104	-6.46e-3	10/21/2017@12:30:31 PM	
480-126302-f-2	1	2	-6.73e-4	-0.0716	-6.10e-3	10/21/2017@12:31:38 PM	
480-126301-k-1	1	3	-1.89e-3	-0.0979	-6.49e-3	10/21/2017@12:32:45 PM	
480-126302-f-1	1	4	-2.14e-3	-0.0958	-6.57e-3	10/21/2017@12:33:51 PM	
480-126300-b-5	1	5	5.34	15.7	1.68	10/21/2017@12:34:58 PM	
480-126300-b-6	1	6	15.4	48.1	4.96	10/21/2017@12:36:04 PM	
480-126300-b-6 DU	1	7	15.3	48.0	4.84	10/21/2017@12:37:11 PM	
480-126300-b-6 MS	1	8	15.9	49.8	5.00	10/21/2017@12:38:17 PM	
CCV	1	S11	1.53	4.44	0.478	10/21/2017@12:39:24 PM	
		Known Conc:	100				
CCB	1	S10	-8.94e-3	-0.147	-8.72e-3	10/21/2017@12:40:30 PM	
		Known Conc:	100				
480-126252-d-1	1	9	0.425	1.22	0.128	10/21/2017@12:41:36 PM	
480-126252-d-2	1	10	0.0690	0.159	0.0159	10/21/2017@12:42:42 PM	
480-126252-d-3	1	11	0.524	1.53	0.160	10/21/2017@12:43:48 PM	
480-126252-d-4	1	12	0.514	1.48	0.156	10/21/2017@12:44:54 PM	
480-126290-l-2	1	13	-9.26e-3	-0.143	-8.82e-3	10/21/2017@12:46:00 PM	
480-126299-i-1	1	14	-6.94e-3	-0.119	-8.08e-3	10/21/2017@12:47:05 PM	
480-126282-a-1	1	15	-7.63e-3	-0.144	-8.30e-3	10/21/2017@12:48:11 PM	
480-126282-a-2	1	16	0.0370	-0.0189	5.79e-3	10/21/2017@12:49:18 PM	
480-126282-a-3	1	17	2.46e-3	-0.0741	-5.12e-3	10/21/2017@12:50:25 PM	
480-126282-a-3 MS	1	18	1.06	3.06	0.328	10/21/2017@12:51:32 PM	
CCV	1	S11	1.52	4.46	0.475	10/21/2017@12:52:38 PM	
		Known Conc:	100				
CCB	1	S10	-6.78e-3	-0.121	-8.03e-3	10/21/2017@12:53:44 PM	
		Known Conc:	100				
MB	1	S10	-7.37e-3	-0.118	-8.22e-3	10/21/2017@12:54:50 PM	
		Known Conc:	100				
LCS	1	S11	1.51	4.43	0.470	10/21/2017@12:55:57 PM	
		Known Conc:	100				
480-126300-b-5^5	1	19	1.29	3.77	0.401	10/21/2017@12:57:03 PM	1ml → 5ml
480-126300-b-5 DU^5	1	20	1.30	3.74	0.404	10/21/2017@12:58:10 PM	↓
480-126300-b-5 MS^5	1	21	2.52	7.40	0.791	10/21/2017@12:59:17 PM	100µl → 5ml
480-126300-b-6^50	1	22	0.365	1.06	0.109	10/21/2017@1:00:23 PM	
480-126252-d-1	1	23	0.416	1.21	0.126	10/21/2017@1:01:29 PM	
480-126252-d-2	1	24	0.0712	0.174	0.0168	10/21/2017@1:02:35 PM	
480-126300-b-6^10	1	25	2.17	6.43	0.681	10/21/2017@1:03:41 PM	500µl → 5ml
480-126300-b-6^20	1	26	0.963	2.84	0.298	10/21/2017@1:04:47 PM	250µl → 5ml
CCV	1	S11	1.53	4.45	0.478	10/21/2017@1:05:54 PM	
		Known Conc:	100				
CCB	1	S10	-7.76e-3	-0.166	-8.34e-3	10/21/2017@1:07:00 PM	
		Known Conc:	100				
480-126252-d-3	1	27	0.541	1.55	0.165	10/21/2017@1:08:06 PM	
480-126252-d-4	1	28	0.520	1.48	0.158	10/21/2017@1:09:11 PM	

Analyte Properties Table for : OM_10-21-2017_12-25-00PM.OMN

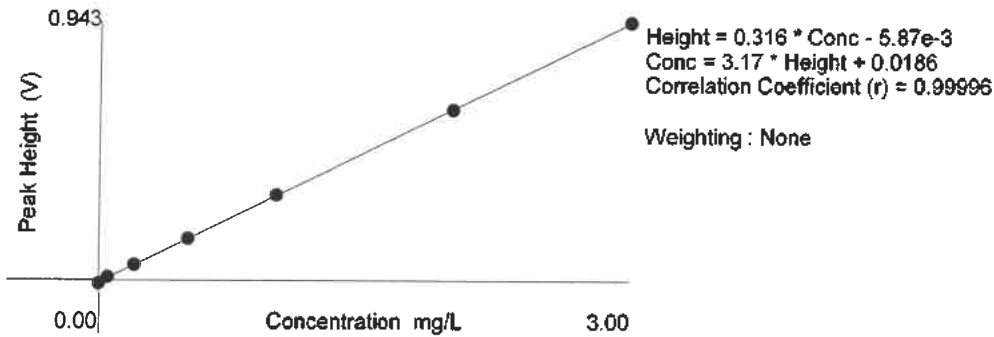
Property	Channel 2
	Nitrite

Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.08	0.943	0.0	-0.1	3.00	10/20/2017	9:45:44 PM
2	2.00	1	5.99	0.623	0.0	0.5	1.99	10/20/2017	9:46:50 PM
3	1.00	1	3.00	0.313	0.0	-0.9	1.01	10/20/2017	9:47:57 PM
4	0.500	1	1.48	0.154	0.0	-1.4	0.507	10/20/2017	9:49:03 PM
5	0.200	1	0.559	0.0574	0.0	-0.2	0.200	10/20/2017	9:50:10 PM
6	0.0500	1	0.110	0.0123	0.0	-24.0	0.0576	10/20/2017	9:51:18 PM
7	0.00	1	-0.183	-0.0110			-0.0163	10/20/2017	9:52:24 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 383102

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail	
									3-Sigma Limits	Client Limits
480-126264-G-1	M22A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	ND	<input type="checkbox"/>	0 - 0
480-126264-G-2	M22B	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	ND	<input type="checkbox"/>	0 - 0
480-126264-G-3	M23A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	ND	<input type="checkbox"/>	0 - 0
480-126264-G-4	M23B	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	ND	<input type="checkbox"/>	0 - 0
480-126264-G-5	M23Z	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	0.037	<input type="checkbox"/>	0 - 0.119
480-126264-G-6	DUP2(GW)	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	ND	<input type="checkbox"/>	0 - 0.114
480-126262-A-1	W-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	5	1.0	1.2	<input type="checkbox"/>	0 - 0.046
480-126262-A-2	W-4	353.2	Nitrate Nitrite as N	Total/NA	mg/L	5	1.0	0.059	<input type="checkbox"/>	0.046 - 3.114
480-126262-A-3	W-8	353.2	Nitrate Nitrite as N	Total/NA	mg/L	5	1.0	0.098	<input type="checkbox"/>	0.007 - 0.109
480-126290-L-1	SUMP	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input checked="" type="checkbox"/>	0.02 - 0.121
480-126290-L-2	SLG-15	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.4	<input type="checkbox"/>	0 - 6.814
480-126290-L-3	SLG-14	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	0.82 - 2.605
480-126299-I-1	T105	353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	1.8	<input type="checkbox"/>	0 - 0
480-126301-K-1	T203	353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	0.11 / 0.113	<input checked="" type="checkbox"/>	0 - 12.764
480-126301-K-2	T301	353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	0.057 / 0.6583	<input checked="" type="checkbox"/>	1.993 - 36.657 <i>conform</i>
480-126302-F-1	T203	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.065 / 0.6183	<input checked="" type="checkbox"/>	0 - 23.196 <i>conform</i>
480-126302-F-2	T301	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.055 / 0.6584	<input checked="" type="checkbox"/>	0 - 46.634 <i>conform</i>
				Total/NA	mg/L	8	1.0	0.055 / 0.6584	<input checked="" type="checkbox"/>	0 - 25.884 <i>conform</i>

OK

Batch 383102

Historical Data Summary Report

For Batch 383103

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits	Data	
											Fail	Client
480-126282-A-1	W-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	5	1.0	ND	0 - 0	0 - 0	<input type="checkbox"/>	<input type="checkbox"/>
480-126282-A-2	W-4	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	5	1.0	0.037	0 - 0.039	0 - 0.034	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
480-126282-A-3	W-8	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	3	1.0	ND	0 - 0.061	0.009 - 0.014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
480-126290-L-2	SLG-15	353.2_Nitrite	Nitrite	Total/NA	mg/L	8	1.0	ND	0 - 0	0 - 0	<input type="checkbox"/>	<input type="checkbox"/>
480-126299-I-1	T105	353.2_Nitrite	Nitrite as N	Dissolved	mg/L	8	1.0	ND	0 - 0	0 - 0	<input type="checkbox"/>	<input type="checkbox"/>
480-126301-K-1	T203	353.2_Nitrite	Nitrite as N	Dissolved	mg/L	8	1.0	ND	0 - 0	0 - 0	<input type="checkbox"/>	<input type="checkbox"/>
480-126301-K-2	T301	353.2_Nitrite	Nitrite as N	Dissolved	mg/L	8	1.0	ND	0 - 0	0 - 0	<input type="checkbox"/>	<input type="checkbox"/>
480-126302-F-1	T203	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0 - 0.108	0 - 0.116	<input type="checkbox"/>	<input type="checkbox"/>
480-126302-F-2	T301	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0 - 0.168	0 - 0.18	<input type="checkbox"/>	<input type="checkbox"/>

Nitrate Bench Sheet

BF-WC-NBS-023 Rev. 05/12/17

Date	Analyst	Sample ID	Batch	Filtered due to:	Adjustment for Chlorine
10-21-17	SSS	126300 B-4	38302/ 38303	color	N
		126300 B-2			
		126302 F-1			
		126302 F-2			
		126300 B-1			
		L B-5			
		126252 D-2			
		L D-3			
		L D-4			
		126290 L-1			
		126282 A-1			
		L A-2			
		L A-3			

Filter Lot #: 10087046

Chlorine Test Strip Lot #: 091417V

Sodium Thiosulfate Solution: N/A

Batch: 383125, 383126, 383162
 (NO₃) (NO₂) (NO₃)

383157, 383161
 (Nitrite) (NO₃ or NO₂)

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO ₃ /NO ₂ 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	3878175	Exp. 05/31/2018
Nitrite 1000mg/L STD (CAL)	3847174	Exp. 01/31/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4021279	Exp. 12/31/2017
Nitrate, Nitrate/Nitrite Int STD (MS)	4321573	Exp. 10/28/2017
Nitrite Int STD (MS)	4305770	Exp. 10/23/2017
Nitrate 1.5ppm CCV/ICV/LCS	4321571	Exp. 10/22/2017
Nitrite 1.5ppm CCV/ICV/LCS	4321758 / 4321572 Batch	Exp. 10/22/2017
Ammonium Chloride Buffer	4302522	Exp. 11/13/2017
Color Reagent	4291290	Exp. 11/10/2017
1:4 Ammonium Hydroxide	4264855	Exp. 03/26/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
 Control Limits = 90-110%
 (1.35 mg/L - 1.65 mg/L)

MB/CCB = 0.0mg/L
 Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
 Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

- 3.0ppm - 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 2.0ppm - 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 1.0 ppm - 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- .5ppm - 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm - 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm - 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
- CCVL - .05 ppm - 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

- 3.0ppm - 150ul of 1000ppm Nitrite up to 50ml with DI water
- 2.0ppm - 100ul of 1000ppm Nitrite up to 50ml with DI water
- 1.0 ppm - 50ul of 1000ppm Nitrite up to 50ml with DI water
- .5ppm - 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm - 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm - 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
- CCVL - .05 ppm - 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples SSS 10-21-17

Batch: 383125

Author: BufLachat3

Date: 10/21/2017

Original Run Filename: OM_10-21-2017_02-34-19PM.OMN Created: 10/21/2017 2:34:19 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_10-21-2017_02-34-19PM.OMN Last Modified: 10/21/2017 4:17:31 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.53	4.35	0.403	10/21/2017@2:35:24 PM	
Calibration:			Table/Fig.: 1				
CCV	1	S9	1.55	4.43	0.411	10/21/2017@2:36:32 PM	
Known Conc:			1.50				
CCB	1	S10	-0.0168	-0.0778	-4.79e-3	10/21/2017@2:37:41 PM	
Known Conc:			0.00				
MB	1	S10	-0.0124	-0.0651	-4.82e-3	10/21/2017@2:38:49 PM	
Known Conc:			0.00				
LCS	1	S9	1.55	4.42	0.410	10/21/2017@2:39:57 PM	
Known Conc:			1.50				
480-126300-b-5^5	1	1	2.79	7.97	0.735	10/21/2017@2:41:06 PM	1 ml → 5 ml
480-126300-b-5^10	1	2	1.57	4.48	0.409	10/21/2017@2:42:15 PM	500 ul → 5 ml
480-126300-b-6^20	1	3	2.79	7.98	0.738	10/21/2017@2:43:25 PM	250 ul → 5 ml
480-126304-k-1	1	4	5.60	16.0	1.48	10/21/2017@2:44:34 PM	
480-126304-k-2	1	5	-6.73e-3	-0.0488	-3.63e-3	10/21/2017@2:45:43 PM	
480-126304-k-2 DU	1	6	-0.0149	-0.0723	-4.50e-3	10/21/2017@2:46:51 PM	
480-126304-k-3	1	7	-0.0115	-0.0627	-4.44e-3	10/21/2017@2:48:00 PM	
480-126304-k-3 MS	1	8	1.10	3.12	0.286	10/21/2017@2:49:09 PM	
CCV	1	S9	1.56	4.45	0.410	10/21/2017@2:50:17 PM	
Known Conc:			1.50				
CCB	1	S10	-9.60e-3	-0.0571	-5.18e-3	10/21/2017@2:51:25 PM	
Known Conc:			0.00				
480-126304-k-4	1	9	4.44e-4	-0.0282	-3.55e-3	10/21/2017@2:52:33 PM	
480-126304-k-5	1	10	0.198	0.538	0.0477	10/21/2017@2:53:42 PM	
480-126304-k-6	1	11	-8.66e-3	-0.0544	-4.64e-3	10/21/2017@2:54:50 PM	
480-126304-k-7	1	12	0.0485	0.110	0.0108	10/21/2017@2:55:58 PM	
480-126304-k-8	1	13	-0.0177	-0.0804	-5.86e-3	10/21/2017@2:57:06 PM	
480-126305-j-1	1	14	-6.68e-3	-0.0487	-4.62e-3	10/21/2017@2:58:14 PM	
480-126305-j-2	1	15	-0.0159	-0.0753	-4.70e-3	10/21/2017@2:59:22 PM	
480-126305-j-3	1	16	0.0628	0.151	0.0139	10/21/2017@3:00:31 PM	
480-126307-f-3	1	17	2.98e-3	-0.0210	-3.25e-3	10/21/2017@3:01:41 PM	
480-126307-f-3	1	18	1.04	2.95	0.269	10/21/2017@3:02:49 PM	
CCV	1	S9	1.55	4.43	0.405	10/21/2017@3:03:57 PM	
Known Conc:			1.50				
CCB	1	S10	-0.0191	-0.0844	-5.68e-3	10/21/2017@3:05:06 PM	
Known Conc:			0.00				
MB	1	S10	-0.0164	-0.0765	-6.45e-3	10/21/2017@3:06:14 PM	
Known Conc:			0.00				
LCS	1	S9	1.55	4.43	0.408	10/21/2017@3:07:22 PM	
Known Conc:			1.50				
480-126311-g-3	1	19	0.0152	0.0140	3.65e-3	10/21/2017@3:08:31 PM	
480-126315-k-1	1	20	3.42e-3	-0.0197	-3.50e-3	10/21/2017@3:09:40 PM	
480-126315-k-2	1	21	-0.0184	-0.0824	-5.36e-3	10/21/2017@3:10:49 PM	
480-126315-k-3	1	22	-8.39e-3	-0.0536	-4.28e-3	10/21/2017@3:11:57 PM	
480-126315-k-4	1	23	-0.0202	-0.0874	-4.52e-3	10/21/2017@3:13:06 PM	
480-126315-k-4 DU	1	24	-0.0260	-0.104	-5.81e-3	10/21/2017@3:14:15 PM	
480-126315-k-5	1	25	-0.0136	-0.0687	-5.12e-3	10/21/2017@3:15:23 PM	
480-126315-k-5 MS	1	26	1.10	3.13	0.283	10/21/2017@3:16:31 PM	
CCV	1	S9	1.55	4.43	0.403	10/21/2017@3:17:39 PM	
Known Conc:			1.50				
CCB	1	S10	-0.0273	-0.108	-6.21e-3	10/21/2017@3:18:48 PM	
Known Conc:			0.00				
480-126315-k-6	1	27	-0.0276	-0.109	-6.05e-3	10/21/2017@3:19:56 PM	
480-126315-k-7	1	28	-0.0187	-0.0833	-5.13e-3	10/21/2017@3:21:04 PM	
480-126315-k-8	1	29	-1.50e-3	-0.0338	-3.57e-3	10/21/2017@3:22:12 PM	
480-126315-k-9	1	30	-0.0293	-0.114	-6.08e-3	10/21/2017@3:23:20 PM	
480-126315-k-10	1	31	-6.74e-3	-0.0489	-4.03e-3	10/21/2017@3:24:29 PM	
480-126318-e-1	1	32	1.58	4.50	0.410	10/21/2017@3:25:38 PM	

480-126318-e-2	1	33	-0.0173	-0.0793	-5.86e-3	10/21/2017@3:26:48 PM
480-126318-e-3	1	34	-0.0244	-0.0996	-5.97e-3	10/21/2017@3:27:57 PM
480-126318-e-4	1	35	-0.0189	-0.0838	-4.94e-3	10/21/2017@3:29:06 PM
480-126318-e-4 MS	1	36	1.04	2.95	0.266	10/21/2017@3:30:15 PM
CCV	1	S9	1.56	4.45	0.407	10/21/2017@3:31:23 PM
		Known Conc:	1.50			
CCB	1	S10	-0.0243	-0.0993	-5.59e-3	10/21/2017@3:32:31 PM
		Known Conc:	0.00			
MB	1	S10	-0.0188	-0.0835	-5.41e-3	10/21/2017@3:33:40 PM
		Known Conc:	0.00			
LCS	1	S9	1.57	4.46	0.410	10/21/2017@3:34:48 PM
		Known Conc:	1.50			
480-126318-e-5	1	37	-0.0173	-0.0791	-5.18e-3	10/21/2017@3:35:56 PM
480-126318-e-6	1	38	2.65	7.58	0.696	10/21/2017@3:37:05 PM
480-126318-e-7	1	39	-0.0112	-0.0617	-4.26e-3	10/21/2017@3:38:14 PM
480-126319-h-1	1	40	-0.0111	-0.0614	-4.82e-3	10/21/2017@3:39:22 PM
480-126319-h-2	1	41	0.200	0.544	0.0478	10/21/2017@3:40:30 PM
480-126319-h-2 DU	1	42	0.199	0.541	0.0489	10/21/2017@3:41:38 PM
480-126322-f-1	1	43	-0.0136	-0.0686	-5.18e-3	10/21/2017@3:42:46 PM
480-126322-f-1 MS	1	44	1.08	3.06	0.280	10/21/2017@3:43:54 PM
CCV	1	S9	1.56	4.44	0.408	10/21/2017@3:45:02 PM
		Known Conc:	1.50			
CCB	1	S10	-3.09e-3	-0.0384	-3.85e-3	10/21/2017@3:46:11 PM
		Known Conc:	0.00			
480-126322-f-2	1	45	0.0629	0.151	0.0141	10/21/2017@3:47:18 PM
480-126322-f-3	1	46	8.80e-3	-4.26e-3	-2.35e-3	10/21/2017@3:48:28 PM
480-126322-f-4	1	47	0.0883	0.224	0.0209	10/21/2017@3:49:37 PM
480-126322-f-5	1	48	2.10	5.99	0.548	10/21/2017@3:50:46 PM
480-126322-f-6	1	49	0.537	1.51	0.139	10/21/2017@3:51:55 PM
480-126322-f-7	1	50	0.0458	0.102	8.89e-3	10/21/2017@3:53:04 PM
480-126314-e-1	1	51	0.145	0.385	0.0349	10/21/2017@3:54:13 PM
480-126314-e-2	1	52	-4.21e-3	-0.0416	-3.43e-3	10/21/2017@3:55:21 PM
480-126314-e-3	1	53	0.255	0.701	0.0628	10/21/2017@3:56:30 PM
480-126314-e-3 MS	1	54	1.31	3.74	0.342	10/21/2017@3:57:38 PM
CCV	1	S9	1.57	4.48	0.405	10/21/2017@3:58:46 PM
		Known Conc:	1.50			
CCB	1	S10	-0.0116	-0.0630	-5.09e-3	10/21/2017@3:59:55 PM
		Known Conc:	0.00			
MB	1	S10	-0.0246	-0.100	-6.14e-3	10/21/2017@4:01:03 PM
		Known Conc:	0.00			
LCS	1	S9	1.53	4.37	0.400	10/21/2017@4:02:11 PM
		Known Conc:	1.50			
480-126304-k-1^2	1	55	3.28	9.40	0.863	10/21/2017@4:03:20 PM
480-126301-k-1	1	56	0.113	0.294	0.0244	10/21/2017@4:04:28 PM
480-126301-k-2	1	57	0.0563	0.132	0.0107	10/21/2017@4:05:36 PM
480-126302-f-1	1	58	0.0650	0.157	0.0139	10/21/2017@4:06:44 PM
480-126302-f-2	1	59	0.0584	0.138	0.0128	10/21/2017@4:07:52 PM
480-126302-f-2 DU	1	60	0.0505	0.115	0.0118	10/21/2017@4:09:00 PM
480-126302-f-2 MS	1	61	1.09	3.11	0.280	10/21/2017@4:10:10 PM
480-126304-k-1^5	1	62	1.44	4.11	0.371	10/21/2017@4:11:19 PM
CCV	1	S9	1.54	4.38	0.400	10/21/2017@4:12:27 PM
		Known Conc:	1.50			
CCB	1	S10	-0.0171	-0.0786	-5.76e-3	10/21/2017@4:13:35 PM
		Known Conc:	0.00			
480-126322-f-2	1	63	0.0583	0.138	0.0129	10/21/2017@4:14:44 PM
480-126318-e-6	1	64	2.63	7.52	0.679	10/21/2017@4:15:53 PM

2.5ml → 5ml

1ml → 5ml

Analyte Properties Table for : OM_10-21-2017_02-34-19PM.OMN

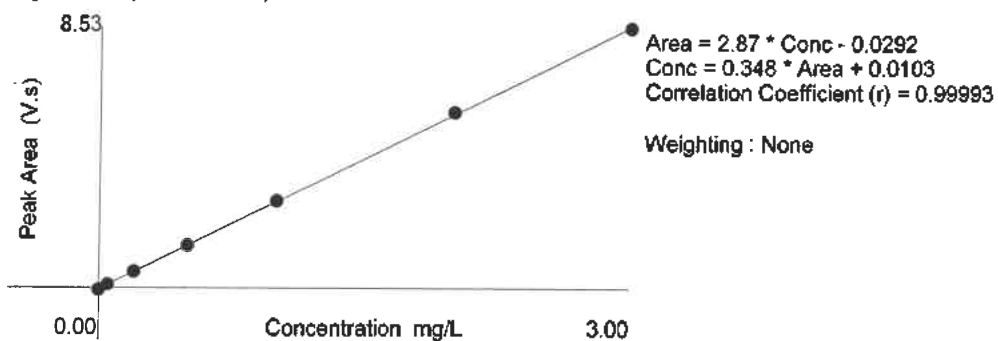
Property	Channel 2 Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110

Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.53	0.768	0.0	0.6	2.98	10/20/2017	8:41:30 PM
2	2.00	1	5.78	0.518	0.0	-1.1	2.02	10/20/2017	8:42:39 PM
3	1.00	1	2.86	0.257	0.0	-0.8	1.01	10/20/2017	8:43:47 PM
4	0.500	1	1.41	0.127	0.0	0.1	0.500	10/20/2017	8:44:56 PM
5	0.200	1	0.546	0.0488	0.0	-0.2	0.201	10/20/2017	8:46:06 PM
6	0.0500	1	0.111	0.0105	0.0	3.3	0.0488	10/20/2017	8:47:15 PM
7	0.00	1	-0.0628	-6.03e-3			-0.0116	10/20/2017	8:48:24 PM

Figure : 1 (Nitrate/Nitrite)



Batch: 383126

Author: BufLachat3

Date: 10/21/2017

Original Run Filename: OM_10-21-2017_04-50-25PM.OMN Created: 10/21/2017 4:50:25 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_10-21-2017_04-50-25PM.OMN Last Modified: 10/21/2017 5:29:17 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.51	4.48	0.472	10/21/2017@4:51:30 PM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-3.20e-3	-0.100	-6.90e-3	10/21/2017@4:52:36 PM	
		Known Conc:	100				
MB	1	S10	-1.52e-3	-0.0931	-6.37e-3	10/21/2017@4:53:42 PM	
		Known Conc:	100				
LCS	1	S11	1.54	4.47	0.480	10/21/2017@4:54:49 PM	
		Known Conc:	100				
480-126304-k-1	1	1	2.97e-3	-0.0496	-4.95e-3	10/21/2017@4:55:56 PM	
480-126304-k-5	1	2	-6.11e-3	-0.126	-7.82e-3	10/21/2017@4:57:03 PM	
480-126305-j-3	1	3	-9.86e-4	-0.105	-6.20e-3	10/21/2017@4:58:10 PM	
480-126314-e-1	1	4	-4.51e-3	-0.133	-7.32e-3	10/21/2017@4:59:17 PM	
480-126314-e-3	1	5	0.0104	-0.0598	-2.60e-3	10/21/2017@5:00:23 PM	
480-126318-e-1	1	6	-5.24e-3	-0.126	-7.55e-3	10/21/2017@5:01:30 PM	
480-126318-e-1 DU	1	7	-9.05e-3	-0.166	-8.75e-3	10/21/2017@5:02:36 PM	
480-126318-e-1 MS	1	8	1.06	3.08	0.328	10/21/2017@5:03:42 PM	
CCV	1	S11	1.53	4.44	0.477	10/21/2017@5:04:48 PM	
		Known Conc:	100				
CCB	1	S10	-3.75e-3	-0.0886	-7.08e-3	10/21/2017@5:05:55 PM	
		Known Conc:	100				
480-126318-e-6	1	9	-5.79e-3	-0.145	-7.72e-3	10/21/2017@5:07:01 PM	
480-126322-f-2	1	10	-3.32e-3	-0.108	-6.94e-3	10/21/2017@5:08:07 PM	
480-126322-f-4	1	11	-3.06e-3	-0.130	-6.86e-3	10/21/2017@5:09:13 PM	
480-126322-f-5	1	12	-1.67e-3	-0.0857	-6.42e-3	10/21/2017@5:10:19 PM	
480-126322-f-6	1	13	-6.55e-4	-0.100	-6.10e-3	10/21/2017@5:11:24 PM	
480-126322-f-6 MS	1	14	1.05	3.06	0.327	10/21/2017@5:12:30 PM	
CCV	1	S11	1.53	4.47	0.477	10/21/2017@5:13:36 PM	
		Known Conc:	100				
CCB	1	S10	-8.59e-3	-0.149	-8.60e-3	10/21/2017@5:14:42 PM	
		Known Conc:	100				
MB	1	S10	-3.59e-3	-0.0884	-7.03e-3	10/21/2017@5:15:49 PM	
		Known Conc:	100				
LCS	1	S11	1.50	4.42	0.469	10/21/2017@5:16:55 PM	
		Known Conc:	100				
480-126260-c-1^2	1	19	0.0368	-0.0317	5.73e-3	10/21/2017@5:18:02 PM	2.5ml → 5ml
480-126260-c-5^2	1	20	-1.73e-3	-0.0508	-6.44e-3	10/21/2017@5:19:08 PM	2.5ml → 5ml
480-126260-c-8^10	1	21	-4.77e-3	-0.110	-7.40e-3	10/21/2017@5:20:15 PM	500µl → 5ml
480-126260-c-9^5	1	22	0.0361	0.0259	5.51e-3	10/21/2017@5:21:21 PM	1ml → 5ml
480-126260-c-8^2	1	23	0.0312	-0.0359	3.96e-3	10/21/2017@5:22:28 PM	2.5ml → 5ml
480-126260-c-9^2	1	24	0.110	0.287	0.0289	10/21/2017@5:23:34 PM	
480-126260-c-1 DU^2	1	25	4.41e-3	-0.0663	-4.50e-3	10/21/2017@5:24:40 PM	
480-126260-c-1 MS^2	1	26	0.0894	0.243	0.0224	10/21/2017@5:25:46 PM	
CCV	1	S11	1.49	4.45	0.466	10/21/2017@5:26:52 PM	
		Known Conc:	100				
CCB	1	S10	-6.07e-3	-0.102	-7.81e-3	10/21/2017@5:27:58 PM	
		Known Conc:	100				

Analyte Properties Table for : OM_10-21-2017_04-50-25PM.OMN

Property	Channel 2
Concentration Units	Nitrite mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No

Batch 383124

Author: BufLachat3

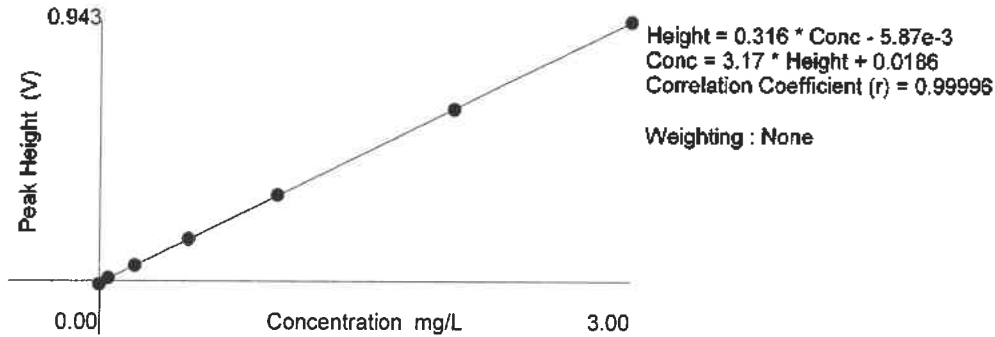
Date : 10/21/2017

% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.08	0.943	0.0	-0.1	3.00	10/20/2017	9:45:44 PM
2	2.00	1	5.99	0.623	0.0	0.5	1.99	10/20/2017	9:46:50 PM
3	1.00	1	3.00	0.313	0.0	-0.9	1.01	10/20/2017	9:47:57 PM
4	0.500	1	1.48	0.154	0.0	-1.4	0.507	10/20/2017	9:49:03 PM
5	0.200	1	0.559	0.0574	0.0	-0.2	0.200	10/20/2017	9:50:10 PM
6	0.0500	1	0.110	0.0123	0.0	-24.0	0.0576	10/20/2017	9:51:18 PM
7	0.00	1	-0.183	-0.0110			-0.0163	10/20/2017	9:52:24 PM

Figure : 1 (Nitrite)



55710-23-17
 Batch: 3383162

Author: BufLachat3

Date: 10/22/2017

Original Run Filename: OM_10-22-2017_11-21-46AM.OMN Created: 10/22/2017 11:21:46 AM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_10-22-2017_11-21-46AM.OMN Last Modified: 10/22/2017 11:48:02 AM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
3	1	S1	3.00	8.90	0.965	10/22/2017@11:22:49 AM	
2	1	S2	2.00	5.83	0.635	10/22/2017@11:23:55 AM	
1	1	S3	1.00	2.93	0.314	10/22/2017@11:25:01 AM	
.5	1	S4	0.500	1.46	0.158	10/22/2017@11:26:08 AM	
.2	1	S5	0.200	0.548	0.0602	10/22/2017@11:27:15 AM	
.05	1	S6	0.0500	0.148	0.0143	10/22/2017@11:28:22 AM	
0	1	S10	0.00	-0.102	-7.47e-3	10/22/2017@11:29:28 AM	
ICV	1	S11	1.51	4.36	0.482	10/22/2017@11:30:35 AM	
Known Conc:			100				
Calibration:			Table/Fig. : 1				
ICB	1	S10	-6.34e-3	-0.108	-7.15e-3	10/22/2017@11:31:41 AM	
Known Conc:			100				
CCVL - .05 PPM	1	S6	0.0557	0.122	0.0128	10/22/2017@11:32:48 AM	
CCV	1	S11	1.51	4.35	0.480	10/22/2017@11:33:55 AM	
Known Conc:			100				
CCB	1	S10	-6.60e-3	-0.110	-7.23e-3	10/22/2017@11:35:01 AM	
Known Conc:			100				
MB	1	S10	-5.17e-3	-0.0942	-6.77e-3	10/22/2017@11:36:07 AM	
Known Conc:			100				
LCS	1	S11	1.51	4.38	0.482	10/22/2017@11:37:13 AM	
Known Conc:			100				
480-126319-h-2	1	1	-9.04e-3	-0.103	-8.02e-3	10/22/2017@11:38:21 AM	
480-126319-h-2 DU	1	2	-7.69e-3	-0.118	-7.58e-3	10/22/2017@11:39:28 AM	
480-126319-h-2 MS	1	3	1.15	3.25	0.365	10/22/2017@11:40:35 AM	
CCV	1	S11	1.54	4.42	0.492	10/22/2017@11:41:41 AM	
Known Conc:			100				
CCB	1	S10	-7.25e-3	-0.117	-7.44e-3	10/22/2017@11:42:47 AM	
Known Conc:			100				

Analyte Properties Table for : OM_10-22-2017_11-21-46AM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Batch 383162

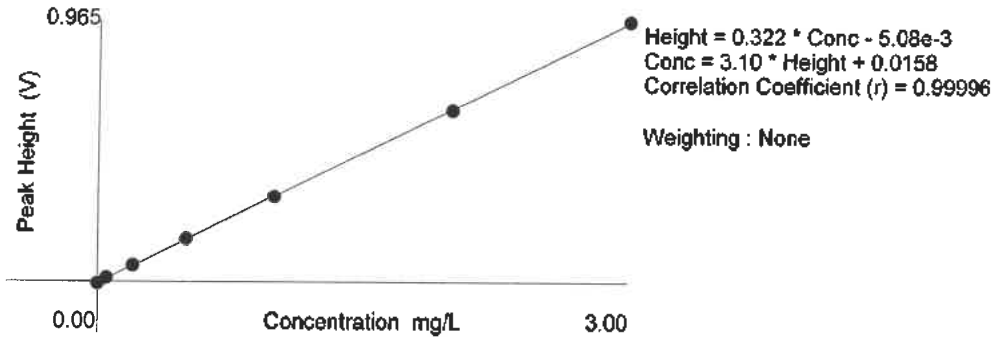
Author: BufLachat3

Date: 10/22/2017

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.90	0.965	0.0	-0.4	3.01	10/22/2017	11:22:49 AM
2	2.00	1	5.83	0.635	0.0	0.7	1.99	10/22/2017	11:23:55 AM
3	1.00	1	2.93	0.314	0.0	0.9	0.991	10/22/2017	11:25:01 AM
4	0.500	1	1.46	0.158	0.0	-1.5	0.507	10/22/2017	11:26:08 AM
5	0.200	1	0.548	0.0602	0.0	-1.4	0.203	10/22/2017	11:27:15 AM
6	0.0500	1	0.148	0.0143	0.0	-29.3	0.0601	10/22/2017	11:28:22 AM
7	0.00	1	-0.102	-7.47e-3			-7.34e-3	10/22/2017	11:29:28 AM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 383125

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data		Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution		
480-126304-K-1 ^5 G24M		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	5.0	7.2	<input type="checkbox"/> 7.2 - 19.08
480-126304-K-2 G52S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126304-K-3 G53S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126304-K-4 G54S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.065
480-126304-K-5 G55S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	0.20	<input type="checkbox"/> 0.16 - 0.66
480-126304-K-6 G56S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126304-K-7 G57S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126304-K-8 G58S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126305-J-1 G45S		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.088
480-126305-J-2 G46D		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126305-J-3 P207		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	0.063	<input type="checkbox"/> 0 - 0
480-126307-F-3 P207		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 2.28
480-126311-G-3 MW-7S		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.15	<input type="checkbox"/> 0 - 0.768
480-126314-E-1 NMSU01		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.088
480-126314-E-2 NMSWD02		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.26	<input type="checkbox"/> 0 - 0.528
480-126314-E-3 NMSWU01		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.42
480-126315-K-1 G201		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 1.32
480-126315-K-10 G314		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.3
480-126315-K-2 G202		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126315-K-3 G203		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126315-K-4 G204		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126315-K-5 G205		353.2	Nitrate Nitrite as N	Dissolved	mg/L	7	1.0	ND	<input type="checkbox"/> 0 - 0
480-126315-K-6 G206		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.612
480-126315-K-7 G311		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126315-K-8 G312		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.113
480-126315-K-9 G313		353.2	Nitrate Nitrite as N	Dissolved	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.84
480-126318-E-1 MW01		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.504
480-126318-E-2 MW03		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.6	<input type="checkbox"/> 1.04 - 2.04
480-126318-E-3 MW04		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126318-E-4 MW05		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126318-E-5 MW06		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126318-E-6 MW07		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	2.7 / 0.163	<input type="checkbox"/> 0 - 0
480-126318-E-7 O1FB		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input checked="" type="checkbox"/> 1.04 - 2.64 <i>conform</i>
480-126319-H-1 O2FB		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-126319-H-2 F.S. COPE		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.20	<input type="checkbox"/> 0 - 0
480-126322-F-1 O1FB		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0.073 - 0.597
480-126322-F-2 YSC01		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.063 / 0.0583	<input type="checkbox"/> 0 - 0
480-126322-F-3 YSC02		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input checked="" type="checkbox"/> 0 - 0 <i>conform</i>

Historical Data Summary Report

For Batch 383125

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data		Result	Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution			
480-126322-F-4	YSP05	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.088	<input type="checkbox"/> 0 - 0.247	<input type="checkbox"/> 0 - 0.156
480-126322-F-5	YSP08	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	2.1	<input type="checkbox"/> 1.833 - 2.567	<input type="checkbox"/> 1.6 - 2.76
480-126322-F-6	YSP09	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.54	<input type="checkbox"/> 0.095 - 0.675	<input type="checkbox"/> 0.232 - 0.648
480-126322-F-7	YSP13	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.173	<input type="checkbox"/> 0 - 0.132

Historical Data Summary Report

For Batch 383126

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data			Result	Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution				
480-126304-K-1	G24M	353.2_Nitrite	Nitrite as N	Dissolved	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126304-K-5	G55S	353.2_Nitrite	Nitrite as N	Dissolved	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126305-J-3	P207	353.2_Nitrite	Nitrite as N	Dissolved	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126314-E-1	NMSU01	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126314-E-3	NMSWU01	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126318-E-1	MW01	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126318-E-6	MW07	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126322-F-2	YSC01	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126322-F-4	YSP05	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-126322-F-5	YSP08	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0.115	<input type="checkbox"/> 0-0.069
480-126322-F-6	YSP09	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0		ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

Historical Data Summary Report

For Batch 383162

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-126319-H-2	P.S. COPE	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0

Nitrate Bench Sheet

BF-WC-NBS-023 Rev 05/12/17

Date	Analyst	Sample ID	Batch	Filtered due to:	Adjustment for Chlorine
10-21-17	SSS	126300 B-5	383125/ 383126	color	N/A
		126305 J-1			
		126307 F-3			
		126311 G-3			
		126318 E-3			
		126314 D-1			
		↓ E-2			
		↓ E-3			
		126260 C-1		N/A	Y
		126260 C-5			
		↓ C-8			
		↓ C-9		cloudy	
<hr/> <p style="font-size: 2em; transform: rotate(-30deg); opacity: 0.5;">SSS 10-21-17</p>					

Filter Lot #: 10087046/9849824

Chlorine Test Strip Lot #: 091417V

Sodium Thiosulfate Solution: N/A 3997184
10-21-17

FERROUS IRON

Genesys 2

374684

Analyst: LED	Calibration Curve Information		
Start Date: 8/30/2017		Conc. (mg/L)	ABS.
Start Time: 14:30	STD1	0.000	0.000
End Time: 15:57	Std. 2	0.100	0.024
Old curve: 5-25-17	Std. 3	0.500	0.112
DATE OF CURVE= 8/30/2017	Std. 4	1.000	0.218
	Std. 5	3.000	0.531

CURVESoln:
4215403

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9966
Slope:	0.17505
Intercept:	0.01595

PIPETTE	J24940D
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	4215405
1.4015g of FAS 3305340 UP TO 1L	
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	A6096
	EXP MAR-21

LCS information:	
Solution #	4215403
1.4021g of FAS 3916794 UP TO 1L	
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4215403
1.4021g of FAS 3916794 UP TO 1L	
Concentration (mg/L):	1
MS	True Value 1.00

Job #	Sample ID	Sample	Sample	Blank	Corrected	D.F.	Curve Conc.	Final Conc.	% Rec.	Comments
		Volume	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		
		(mL)								
IC	0.00	25	0.000		0.000	1	ND	ND		
IC	0.1 PPM	25	0.021		0.021	1	0.0288	ND		
IC	0.5 PPM	25	0.084		0.084	1	0.3887	0.389		
IC	1.0 PPM	25	0.150		0.150	1	0.7658	0.766		
IC	3.0 PPM	25	0.355		0.355	1	1.9369	1.937		NO 8/30/17
ICV@2PPM	2.0 PPM	25	0.267		0.267	1	1.4341	1.434		ICV = 2.159984 = 108%
ICB	BLANK	25	0.000		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		ICV = 2.108672
		25			0.000	1	ND	ND		2
		25			0.000	1	ND	ND		= 105%
		25			0.000	1	ND	ND		
CCV	CCV	25			0.000	1	ND	ND		
CCB	CCB	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	CCV	25			0.000	1	ND	ND		
CCB	CCB	25			0.000	1	ND	ND		

Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

Curve: 374684

Analyst:		Calibration Curve Information		
Start Date:		Conc.(mg/L)	ABS.	
Start Time:	STD1	0.000	0.000	
End Time:	Std. 2	0.100	0.021	
	Std. 3	0.500	0.084	
DATE OF CURVE±	8/30/2017	Std. 4	1.000	0.150
		Std. 5	3.000	0.355

CURVE SOLUTION:
 4215403

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9951
Slope:	0.11578
Intercept:	0.01549

PIPETTE
 USED SQUARE CUVETTES
 EQL: 0.10 mg/L

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	A8096
	EXP MAR-21

ICV INFORMATION		
Solution #	4215405	
1.4015g of FAS 3305340 UP TO 1L		
Concentration (mg/L)	2.00	
ICV	True value:	2.00

LCS Information:		
Solution #	4215403	
1.4021g of FAS 3916794 UP TO 1L		
Concentration (mg/L):	2	
LCS	True value:	2.00

Matrix Spike Information:		
Solution #	4215403	
1.4021g of FAS 3916794 UP TO 1L		
Concentration (mg/L):	1	
MS	True Value	1.00

Job #	Sample ID	Sample	Sample	Blank	Corrected	D.F.	Curve Conc.	Final Conc.	% Rec.	Comments
		Volume	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		
		(mL)								
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
MB	BLANK	25			0.000	1	ND	ND		
LCS	2 PPM	25			0.000	1	ND	ND	#VALUE!	
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

Laboratory Bench Sheet
FERROUS IRON
Genesis 2

TestAmerica - Buffalo

584412

Analyst: LED	Calibration Curve Information		
Start Date: 10/28/2017		Conc. (mg/L)	ABS.
Start Time: 12:54	STD1	0.000	0.000
End Time: 13:25	Std. 2	0.100	0.021
	Std. 3	0.500	0.084
DATE OF CURVE= 8/30/2017	Std. 4	1.000	0.150
	Std. 5	3.000	0.355

CURVE SOLUTION:
4215403

BATCH #	
Instrument Information	
Instrument:	Genesis 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9951
Slope:	0.11578
Intercept:	0.01549

PIPETTE	L39118G
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	4215405
1.4015g of FAS 3305340 UP TO 1L	
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	3188798
	EXP 12-31-20

LCS Information:	
Solution #	4215403
1.4021g of FAS 3916794 UP TO 1L	
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4215403
1.4021g of FAS 3916794 UP TO 1L	
Concentration (mg/L):	1
MS	True Value: 1.00

Job #	Sample ID	Sample	Sample	Blank	Corrected	D.F.	Curve Conc.	Final Conc.	% Rec.	Comments
		Volume	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		
		(mL)								
CCV	2 PPM	25	0.253		0.253	1	2.0515	2.051		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
MB	BLANK	25	0.000		0.000	1	ND	ND		
LCS	2 PPM	25	0.258		0.258	1	2.0947	2.095	105%	
125938	e-2	25	0.027	0.010	0.017	1	0.0131	ND		
125938	e-3	25	0.017	0.012	0.005	1	-0.0906	ND		
126011	L-4	25	0.017	0.003	0.014	1	-0.0128	ND		
126011	L-4 MS	25	0.179	0.003	0.176	1	1.3864	1.386		
126011	G-9	25	0.010	0.000	0.010	1	-0.0474	ND		
126011	G-9 DU	25	0.013	0.000	0.013	1	-0.0215	ND		
126070	H-1	25	0.040	0.026	0.014	1	-0.0128	ND		
126070	AB-3	25	0.333	0.196	0.135	1	1.0323	1.032		
CCV	2 PPM	25	0.264		0.264	1	2.1465	2.147		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
126300	A-1	25	0.033	0.012	0.021	1	0.0476	ND		
126300	C-2	25	0.040	0.014	0.026	1	0.0908	ND		
126300	C-3	25	0.011	0.001	0.010	1	-0.0474	ND		
126300	B-4	25	0.184	0.161	0.023	1	0.0649	ND		
126300	A-5	25	0.021	0.010	0.011	1	-0.0387	ND		
126300	A-8	25	0.026	0.008	0.018	1	0.0217	ND		
CCV	2PPM	25	0.251		0.251	1	2.0342	2.034		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

10/10/28/17

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 383151 Batch Start Date: 10/22/17 10:25 Batch Analyst: Schelble, Stephanie S

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-126300-B-4	ML-7S	353.2	T	5 mL	5 mL				
480-126300-B-2	ML-2I	353.2	T	5 mL	5 mL				
480-126300-B-1	ML-2S	353.2	T	5 mL	5 mL				
480-126300-B-3	ML-2D	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 383161 Batch Start Date: 10/22/17 11:28 Batch Analyst: Schelble, Stephanie S

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-126300-B-5	ML-7I	353.2	T	5 mL	5 mL				
480-126300-B-6	ML-7D	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 374684 Batch Start Date: 08/30/17 14:30 Batch Analyst: Dobe, Laura E

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm Cal 00007	
IC 480-374684/1		SM 3500 FE D		100 mL	100 mL	0 Absorbance	OK w/o Correction		
IC 480-374684/2		SM 3500 FE D		100 mL	100 mL	.021 Absorbance	OK w/o Correction	0.05 mL	
IC 480-374684/3		SM 3500 FE D		100 mL	100 mL	.084 Absorbance	OK w/o Correction	0.25 mL	
IC 480-374684/4		SM 3500 FE D		100 mL	100 mL	.150 Absorbance	OK w/o Correction	0.5 mL	
IC 480-374684/5		SM 3500 FE D		100 mL	100 mL	.355 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-126300-1

SDG No.: _____

Batch Number: 384412 Batch Start Date: 10/28/17 12:54 Batch Analyst: Dobe, Laura E

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm Cal 00007
CCV 480-384412/1		SM 3500 FE D		25 mL	25 mL		.253 Absorbance	OK w/o Correction	0.25 mL
CCB 480-384412/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-384412/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-384412/4		SM 3500 FE D		25 mL	25 mL		.258 Absorbance	OK w/o Correction	0.25 mL
CCV 480-384412/13		SM 3500 FE D		25 mL	25 mL		.264 Absorbance	OK w/o Correction	0.25 mL
CCB 480-384412/14		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
480-126300-A-1	ML-2S	SM 3500 FE D	T	25 mL	25 mL	.012 Absorbance	.033 Absorbance	OK	
480-126300-C-2	ML-2I	SM 3500 FE D	T	25 mL	25 mL	.014 Absorbance	.04 Absorbance	OK	
480-126300-C-3	ML-2D	SM 3500 FE D	T	25 mL	25 mL	.001 Absorbance	.011 Absorbance	OK	
480-126300-B-4	ML-7S	SM 3500 FE D	T	25 mL	25 mL	.161 Absorbance	.184 Absorbance	OK	
480-126300-A-5	ML-7I	SM 3500 FE D	T	25 mL	25 mL	.01 Absorbance	.021 Absorbance	OK	
480-126300-A-6	ML-7D	SM 3500 FE D	T	25 mL	25 mL	.008 Absorbance	.026 Absorbance	OK	
CCV 480-384412/21		SM 3500 FE D		25 mL	25 mL		.251 Absorbance	OK w/o Correction	0.25 mL
CCB 480-384412/22		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	


Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Regulatory Program: DW NPDES RCRA Other:

Company Name: <u>Labella Associates</u>		Client Contact		Project Manager: <u>Ann Aquilina</u>		Site Contact: <u>Allan Engelbert</u>		COC No.:	
Address: <u>300 State Street</u>		City/State/Zip: <u>Rochester, NY, 14614</u>		Phone: <u>585-454-6110</u>		Fax:		Carrier: <u>UPS</u>	
Project Name: <u>FESL</u>		Site:		PO #:		Analysis Turnaround Time		Sampler:	
						<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below:		For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
						<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		COCs	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lab Contact:	Sample Specific Notes:
<u>ML-2S</u>	<u>10/19/17</u>	<u>0845</u>	<u>G</u>	<u>GW</u>	<u>9</u>	<u>MM</u>	<u>X</u>	<u>TCL W/C + 1/4-Dioxane + TC</u>	480-126300 COC 
<u>ML-2I</u>	<u>10/18/17</u>	<u>1255</u>	<u>G</u>	<u>GW</u>	<u>9</u>	<u>MM</u>	<u>X</u>	<u>RSK-175</u>	
<u>ML-2D</u>	<u>10/18/17</u>	<u>1550</u>	<u>G</u>	<u>GW</u>	<u>9</u>	<u>MM</u>	<u>X</u>	<u>353.2, 353.2 N.Kite, Nitro</u>	
<u>ML-7S</u>	<u>10/19/17</u>	<u>1220</u>	<u>G</u>	<u>GW</u>	<u>9</u>	<u>MM</u>	<u>X</u>	<u>3500 FE-D-Ferrous Ion</u>	
<u>ML-7I</u>	<u>10/19/17</u>	<u>1440</u>	<u>G</u>	<u>GW</u>	<u>9</u>	<u>MM</u>	<u>X</u>		
<u>ML-7D</u>	<u>10/20/17</u>	<u>1020</u>	<u>G</u>	<u>GW</u>	<u>9</u>	<u>MM</u>	<u>X</u>		
<u>ML-2I MS</u>	<u>10/18/17</u>	<u>1255</u>	<u>G</u>	<u>GW</u>	<u>3</u>	<u>MY</u>	<u>X</u>		
<u>ML-2I MSD</u>	<u>10/18/17</u>	<u>1255</u>	<u>G</u>	<u>GW</u>	<u>3</u>	<u>MY</u>	<u>X</u>		
<u>Duplicate</u>	<u>10/18/17</u>	<u>1255</u>	<u>G</u>	<u>GW</u>	<u>3</u>	<u>MM</u>	<u>X</u>		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other: 2,2
 Possible Hazard Identification: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Unknown Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/OC Requirements & Comments:
Please email results to aquilina@labellapp.com and aengelbert@labellapp.com. Trip back in cooler

Custody Seal No.: _____
 Relinquished by: Ann Aquilina Date/Time: 10/20/17/1430 Company: Labella
 Relinquished by: UPS Date/Time: 10/21/17 0845 Company: UPS
 Relinquished by: _____ Date/Time: _____ Company: _____

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-126300-1

Login Number: 126300
List Number: 1
Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo

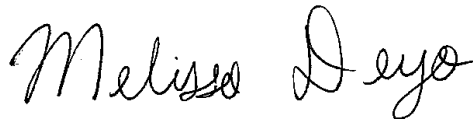
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	False	Nitrate Series and Ferrous - samples -01, -02, -03
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	All vials have headspace
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Labella
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-129748-2

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
1/9/2018 4:01 PM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
01/09/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
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**Job Narrative
480-129748-2**

Receipt

The samples were received on 1/5/2018 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: ML-2S (480-129748-4), (480-129748-K-4 MS) and (480-129748-K-4 MSD). The samples were analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-394701 recovered above the upper control limit for Carbon tetrachloride, Tetrachloroethene, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane and trans-1,2-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: ML-2S (480-129748-4).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-2S (480-129748-4), (480-129748-K-4 MS) and (480-129748-K-4 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-394763 recovered above the upper control limit for Acetone and 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: LBA-SBW-15 (480-129748-1), DUPE (480-129748-2) and LBA-SBW-16 (480-129748-3).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-394763 recovered outside control limits for the following analytes: Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: LBA-SBW-15 (480-129748-1), DUPE (480-129748-2) and LBA-SBW-16 (480-129748-3).

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-394763 were outside control limits. The data has been qualified and reported.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: LBA-SBW-15 (480-129748-1), LBA-SBW-15 (480-129748-1[MS]), LBA-SBW-15 (480-129748-1[MSD]), DUPE (480-129748-2) and LBA-SBW-16 (480-129748-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: LBA-SBW-15 (480-129748-1), LBA-SBW-15 (480-129748-1[MS]), LBA-SBW-15 (480-129748-1[MSD]), DUPE (480-129748-2) and LBA-SBW-16 (480-129748-3). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: ML-2I (480-129748-5) and ML-2D (480-129748-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with analytical batch 480-394793 recovered above the upper control limit for 2-Butanone and Acetone. These analytes were not detected above their reporting limit (RLs) in the associated samples; therefore, the data have been reported. The following samples are impacted: ML-2I (480-129748-5) and ML-2D (480-129748-6).

Method(s) 8260C: The laboratory control sample (LCS) for analytical analytical batch 480-394793 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and were not detected above the reporting limit (RLs) in the associated samples; therefore, the data have been reported. The following samples are impacted: ML-2I (480-129748-5) and ML-2D (480-129748-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129748-1	LBA-SBW-15	Water	01/02/18 10:45	01/05/18 11:00
480-129748-2	DUPE	Water	01/02/18 00:00	01/05/18 11:00
480-129748-3	LBA-SBW-16	Water	01/02/18 14:05	01/05/18 11:00
480-129748-4	ML-2S	Water	01/02/18 15:30	01/05/18 11:00
480-129748-5	ML-2I	Water	01/03/18 10:30	01/05/18 11:00
480-129748-6	ML-2D	Water	01/03/18 12:30	01/05/18 11:00

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-129748-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	73	J	100	38	ug/L	100		8260C	Total/NA
Benzene	48	J	100	41	ug/L	100		8260C	Total/NA
Chloroethane	240		100	32	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	3600		100	81	ug/L	100		8260C	Total/NA
Vinyl chloride	1600		100	90	ug/L	100		8260C	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 480-129748-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	73	J	100	38	ug/L	100		8260C	Total/NA
Benzene	54	J	100	41	ug/L	100		8260C	Total/NA
Chloroethane	230		100	32	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	3600		100	81	ug/L	100		8260C	Total/NA
Vinyl chloride	1600		100	90	ug/L	100		8260C	Total/NA

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-129748-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	21		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	20		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	53		10	3.8	ug/L	10		8260C	Total/NA
Benzene	15		10	4.1	ug/L	10		8260C	Total/NA
Chloroethane	9.4	J	10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	710		10	8.1	ug/L	10		8260C	Total/NA
Ethylbenzene	7.8	J	10	7.4	ug/L	10		8260C	Total/NA
Isopropylbenzene	22		10	7.9	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	20		10	1.6	ug/L	10		8260C	Total/NA
Toluene	11		10	5.1	ug/L	10		8260C	Total/NA
Trichloroethene	5.3	J	10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	440		10	9.0	ug/L	10		8260C	Total/NA
Xylenes, Total	260		20	6.6	ug/L	10		8260C	Total/NA

Client Sample ID: ML-2S

Lab Sample ID: 480-129748-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	25		10	4.1	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	560	F1	10	8.1	ug/L	10		8260C	Total/NA
Ethylbenzene	13		10	7.4	ug/L	10		8260C	Total/NA
Isopropylbenzene	46		10	7.9	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	39		10	1.6	ug/L	10		8260C	Total/NA
Methylcyclohexane	2.4	J	10	1.6	ug/L	10		8260C	Total/NA
Vinyl chloride	220		10	9.0	ug/L	10		8260C	Total/NA
Xylenes, Total	620	F1	20	6.6	ug/L	10		8260C	Total/NA

Client Sample ID: ML-2I

Lab Sample ID: 480-129748-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	140		100	31	ug/L	100		8260C	Total/NA
1,1-Dichloroethane	2200		100	38	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	6700		100	81	ug/L	100		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: ML-2I (Continued)

Lab Sample ID: 480-129748-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	510		100	51	ug/L	100		8260C	Total/NA
Vinyl chloride	2300		100	90	ug/L	100		8260C	Total/NA
Xylenes, Total	110	J	200	66	ug/L	100		8260C	Total/NA

Client Sample ID: ML-2D

Lab Sample ID: 480-129748-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	35		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	24		2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	140		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	2.2		2.0	0.58	ug/L	2		8260C	Total/NA
2-Butanone (MEK)	2.8	J	20	2.6	ug/L	2		8260C	Total/NA
Acetone	10	J *	20	6.0	ug/L	2		8260C	Total/NA
Benzene	2.3		2.0	0.82	ug/L	2		8260C	Total/NA
Chloroethane	15		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	150		2.0	1.6	ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	0.87	J	2.0	0.32	ug/L	2		8260C	Total/NA
Methylcyclohexane	0.36	J	2.0	0.32	ug/L	2		8260C	Total/NA
Toluene	2.0		2.0	1.0	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	4.1		2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	16		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	130		2.0	1.8	ug/L	2		8260C	Total/NA
Xylenes, Total	1.6	J	4.0	1.3	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-129748-1

Date Collected: 01/02/18 10:45

Matrix: Water

Date Received: 01/05/18 11:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			01/08/18 02:37	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			01/08/18 02:37	100
1,1,2-Trichloroethane	ND		100	23	ug/L			01/08/18 02:37	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			01/08/18 02:37	100
1,1-Dichloroethane	73	J	100	38	ug/L			01/08/18 02:37	100
1,1-Dichloroethene	ND		100	29	ug/L			01/08/18 02:37	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			01/08/18 02:37	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			01/08/18 02:37	100
1,2-Dichlorobenzene	ND		100	79	ug/L			01/08/18 02:37	100
1,2-Dichloroethane	ND		100	21	ug/L			01/08/18 02:37	100
1,2-Dichloropropane	ND		100	72	ug/L			01/08/18 02:37	100
1,3-Dichlorobenzene	ND		100	78	ug/L			01/08/18 02:37	100
1,4-Dichlorobenzene	ND		100	84	ug/L			01/08/18 02:37	100
2-Butanone (MEK)	ND		1000	130	ug/L			01/08/18 02:37	100
2-Hexanone	ND		500	120	ug/L			01/08/18 02:37	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			01/08/18 02:37	100
Acetone	ND	* F1	1000	300	ug/L			01/08/18 02:37	100
Benzene	48	J	100	41	ug/L			01/08/18 02:37	100
Bromodichloromethane	ND		100	39	ug/L			01/08/18 02:37	100
Bromoform	ND		100	26	ug/L			01/08/18 02:37	100
Bromomethane	ND		100	69	ug/L			01/08/18 02:37	100
Carbon disulfide	ND		100	19	ug/L			01/08/18 02:37	100
Carbon tetrachloride	ND		100	27	ug/L			01/08/18 02:37	100
Chlorobenzene	ND		100	75	ug/L			01/08/18 02:37	100
Dibromochloromethane	ND		100	32	ug/L			01/08/18 02:37	100
Chloroethane	240		100	32	ug/L			01/08/18 02:37	100
Chloroform	ND		100	34	ug/L			01/08/18 02:37	100
Chloromethane	ND		100	35	ug/L			01/08/18 02:37	100
cis-1,2-Dichloroethene	3600		100	81	ug/L			01/08/18 02:37	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			01/08/18 02:37	100
Cyclohexane	ND		100	18	ug/L			01/08/18 02:37	100
Dichlorodifluoromethane	ND		100	68	ug/L			01/08/18 02:37	100
Ethylbenzene	ND		100	74	ug/L			01/08/18 02:37	100
1,2-Dibromoethane	ND		100	73	ug/L			01/08/18 02:37	100
Isopropylbenzene	ND		100	79	ug/L			01/08/18 02:37	100
Methyl acetate	ND		250	130	ug/L			01/08/18 02:37	100
Methyl tert-butyl ether	ND		100	16	ug/L			01/08/18 02:37	100
Methylcyclohexane	ND		100	16	ug/L			01/08/18 02:37	100
Methylene Chloride	ND		100	44	ug/L			01/08/18 02:37	100
Styrene	ND		100	73	ug/L			01/08/18 02:37	100
Tetrachloroethene	ND		100	36	ug/L			01/08/18 02:37	100
Toluene	ND		100	51	ug/L			01/08/18 02:37	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			01/08/18 02:37	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			01/08/18 02:37	100
Trichloroethene	ND		100	46	ug/L			01/08/18 02:37	100
Trichlorofluoromethane	ND		100	88	ug/L			01/08/18 02:37	100
Vinyl chloride	1600		100	90	ug/L			01/08/18 02:37	100
Xylenes, Total	ND		200	66	ug/L			01/08/18 02:37	100

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-129748-1

Date Collected: 01/02/18 10:45

Matrix: Water

Date Received: 01/05/18 11:00

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>01/08/18 02:37</i>	<i>100</i>
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		80 - 120					<i>01/08/18 02:37</i>	<i>100</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	99		77 - 120					<i>01/08/18 02:37</i>	<i>100</i>
<i>4-Bromofluorobenzene (Surr)</i>	103		73 - 120					<i>01/08/18 02:37</i>	<i>100</i>
<i>Dibromofluoromethane (Surr)</i>	102		75 - 123					<i>01/08/18 02:37</i>	<i>100</i>

Client Sample ID: DUPE

Lab Sample ID: 480-129748-2

Date Collected: 01/02/18 00:00

Matrix: Water

Date Received: 01/05/18 11:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			01/08/18 03:04	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			01/08/18 03:04	100
1,1,2-Trichloroethane	ND		100	23	ug/L			01/08/18 03:04	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			01/08/18 03:04	100
1,1-Dichloroethane	73	J	100	38	ug/L			01/08/18 03:04	100
1,1-Dichloroethene	ND		100	29	ug/L			01/08/18 03:04	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			01/08/18 03:04	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			01/08/18 03:04	100
1,2-Dichlorobenzene	ND		100	79	ug/L			01/08/18 03:04	100
1,2-Dichloroethane	ND		100	21	ug/L			01/08/18 03:04	100
1,2-Dichloropropane	ND		100	72	ug/L			01/08/18 03:04	100
1,3-Dichlorobenzene	ND		100	78	ug/L			01/08/18 03:04	100
1,4-Dichlorobenzene	ND		100	84	ug/L			01/08/18 03:04	100
2-Butanone (MEK)	ND		1000	130	ug/L			01/08/18 03:04	100
2-Hexanone	ND		500	120	ug/L			01/08/18 03:04	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			01/08/18 03:04	100
Acetone	ND	*	1000	300	ug/L			01/08/18 03:04	100
Benzene	54	J	100	41	ug/L			01/08/18 03:04	100
Bromodichloromethane	ND		100	39	ug/L			01/08/18 03:04	100
Bromoform	ND		100	26	ug/L			01/08/18 03:04	100
Bromomethane	ND		100	69	ug/L			01/08/18 03:04	100
Carbon disulfide	ND		100	19	ug/L			01/08/18 03:04	100
Carbon tetrachloride	ND		100	27	ug/L			01/08/18 03:04	100
Chlorobenzene	ND		100	75	ug/L			01/08/18 03:04	100
Dibromochloromethane	ND		100	32	ug/L			01/08/18 03:04	100
Chloroethane	230		100	32	ug/L			01/08/18 03:04	100
Chloroform	ND		100	34	ug/L			01/08/18 03:04	100
Chloromethane	ND		100	35	ug/L			01/08/18 03:04	100
cis-1,2-Dichloroethene	3600		100	81	ug/L			01/08/18 03:04	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			01/08/18 03:04	100
Cyclohexane	ND		100	18	ug/L			01/08/18 03:04	100
Dichlorodifluoromethane	ND		100	68	ug/L			01/08/18 03:04	100
Ethylbenzene	ND		100	74	ug/L			01/08/18 03:04	100
1,2-Dibromoethane	ND		100	73	ug/L			01/08/18 03:04	100
Isopropylbenzene	ND		100	79	ug/L			01/08/18 03:04	100
Methyl acetate	ND		250	130	ug/L			01/08/18 03:04	100

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: DUPE
Date Collected: 01/02/18 00:00
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		100	16	ug/L			01/08/18 03:04	100
Methylcyclohexane	ND		100	16	ug/L			01/08/18 03:04	100
Methylene Chloride	ND		100	44	ug/L			01/08/18 03:04	100
Styrene	ND		100	73	ug/L			01/08/18 03:04	100
Tetrachloroethene	ND		100	36	ug/L			01/08/18 03:04	100
Toluene	ND		100	51	ug/L			01/08/18 03:04	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			01/08/18 03:04	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			01/08/18 03:04	100
Trichloroethene	ND		100	46	ug/L			01/08/18 03:04	100
Trichlorofluoromethane	ND		100	88	ug/L			01/08/18 03:04	100
Vinyl chloride	1600		100	90	ug/L			01/08/18 03:04	100
Xylenes, Total	ND		200	66	ug/L			01/08/18 03:04	100

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					01/08/18 03:04	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		01/08/18 03:04	100
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/08/18 03:04	100
4-Bromofluorobenzene (Surr)	102		73 - 120		01/08/18 03:04	100
Dibromofluoromethane (Surr)	104		75 - 123		01/08/18 03:04	100

Client Sample ID: LBA-SBW-16
Date Collected: 01/02/18 14:05
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21		10	8.2	ug/L			01/08/18 03:31	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			01/08/18 03:31	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			01/08/18 03:31	10
1,1,2-Trichloro-1,2,2-trifluoroethane	20		10	3.1	ug/L			01/08/18 03:31	10
1,1-Dichloroethane	53		10	3.8	ug/L			01/08/18 03:31	10
1,1-Dichloroethene	ND		10	2.9	ug/L			01/08/18 03:31	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			01/08/18 03:31	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			01/08/18 03:31	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			01/08/18 03:31	10
1,2-Dichloroethane	ND		10	2.1	ug/L			01/08/18 03:31	10
1,2-Dichloropropane	ND		10	7.2	ug/L			01/08/18 03:31	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			01/08/18 03:31	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			01/08/18 03:31	10
2-Butanone (MEK)	ND		100	13	ug/L			01/08/18 03:31	10
2-Hexanone	ND		50	12	ug/L			01/08/18 03:31	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			01/08/18 03:31	10
Acetone	ND	*	100	30	ug/L			01/08/18 03:31	10
Benzene	15		10	4.1	ug/L			01/08/18 03:31	10
Bromodichloromethane	ND		10	3.9	ug/L			01/08/18 03:31	10
Bromoform	ND		10	2.6	ug/L			01/08/18 03:31	10
Bromomethane	ND		10	6.9	ug/L			01/08/18 03:31	10

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-129748-3

Date Collected: 01/02/18 14:05

Matrix: Water

Date Received: 01/05/18 11:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10	1.9	ug/L			01/08/18 03:31	10
Carbon tetrachloride	ND		10	2.7	ug/L			01/08/18 03:31	10
Chlorobenzene	ND		10	7.5	ug/L			01/08/18 03:31	10
Dibromochloromethane	ND		10	3.2	ug/L			01/08/18 03:31	10
Chloroethane	9.4	J	10	3.2	ug/L			01/08/18 03:31	10
Chloroform	ND		10	3.4	ug/L			01/08/18 03:31	10
Chloromethane	ND		10	3.5	ug/L			01/08/18 03:31	10
cis-1,2-Dichloroethene	710		10	8.1	ug/L			01/08/18 03:31	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			01/08/18 03:31	10
Cyclohexane	ND		10	1.8	ug/L			01/08/18 03:31	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			01/08/18 03:31	10
Ethylbenzene	7.8	J	10	7.4	ug/L			01/08/18 03:31	10
1,2-Dibromoethane	ND		10	7.3	ug/L			01/08/18 03:31	10
Isopropylbenzene	22		10	7.9	ug/L			01/08/18 03:31	10
Methyl acetate	ND		25	13	ug/L			01/08/18 03:31	10
Methyl tert-butyl ether	20		10	1.6	ug/L			01/08/18 03:31	10
Methylcyclohexane	ND		10	1.6	ug/L			01/08/18 03:31	10
Methylene Chloride	ND		10	4.4	ug/L			01/08/18 03:31	10
Styrene	ND		10	7.3	ug/L			01/08/18 03:31	10
Tetrachloroethene	ND		10	3.6	ug/L			01/08/18 03:31	10
Toluene	11		10	5.1	ug/L			01/08/18 03:31	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			01/08/18 03:31	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			01/08/18 03:31	10
Trichloroethene	5.3	J	10	4.6	ug/L			01/08/18 03:31	10
Trichlorofluoromethane	ND		10	8.8	ug/L			01/08/18 03:31	10
Vinyl chloride	440		10	9.0	ug/L			01/08/18 03:31	10
Xylenes, Total	260		20	6.6	ug/L			01/08/18 03:31	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					01/08/18 03:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		01/08/18 03:31	10
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		01/08/18 03:31	10
4-Bromofluorobenzene (Surr)	101		73 - 120		01/08/18 03:31	10
Dibromofluoromethane (Surr)	103		75 - 123		01/08/18 03:31	10

Client Sample ID: ML-2S

Lab Sample ID: 480-129748-4

Date Collected: 01/02/18 15:30

Matrix: Water

Date Received: 01/05/18 11:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			01/05/18 20:48	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			01/05/18 20:48	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			01/05/18 20:48	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			01/05/18 20:48	10
1,1-Dichloroethane	ND		10	3.8	ug/L			01/05/18 20:48	10
1,1-Dichloroethene	ND		10	2.9	ug/L			01/05/18 20:48	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			01/05/18 20:48	10

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: ML-2S

Lab Sample ID: 480-129748-4

Date Collected: 01/02/18 15:30

Matrix: Water

Date Received: 01/05/18 11:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			01/05/18 20:48	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			01/05/18 20:48	10
1,2-Dichloroethane	ND		10	2.1	ug/L			01/05/18 20:48	10
1,2-Dichloropropane	ND		10	7.2	ug/L			01/05/18 20:48	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			01/05/18 20:48	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			01/05/18 20:48	10
2-Butanone (MEK)	ND		100	13	ug/L			01/05/18 20:48	10
2-Hexanone	ND		50	12	ug/L			01/05/18 20:48	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			01/05/18 20:48	10
Acetone	ND		100	30	ug/L			01/05/18 20:48	10
Benzene	25		10	4.1	ug/L			01/05/18 20:48	10
Bromodichloromethane	ND		10	3.9	ug/L			01/05/18 20:48	10
Bromoform	ND		10	2.6	ug/L			01/05/18 20:48	10
Bromomethane	ND		10	6.9	ug/L			01/05/18 20:48	10
Carbon disulfide	ND		10	1.9	ug/L			01/05/18 20:48	10
Carbon tetrachloride	ND		10	2.7	ug/L			01/05/18 20:48	10
Chlorobenzene	ND		10	7.5	ug/L			01/05/18 20:48	10
Dibromochloromethane	ND		10	3.2	ug/L			01/05/18 20:48	10
Chloroethane	ND		10	3.2	ug/L			01/05/18 20:48	10
Chloroform	ND		10	3.4	ug/L			01/05/18 20:48	10
Chloromethane	ND		10	3.5	ug/L			01/05/18 20:48	10
cis-1,2-Dichloroethene	560	F1	10	8.1	ug/L			01/05/18 20:48	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			01/05/18 20:48	10
Cyclohexane	ND		10	1.8	ug/L			01/05/18 20:48	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			01/05/18 20:48	10
Ethylbenzene	13		10	7.4	ug/L			01/05/18 20:48	10
1,2-Dibromoethane	ND		10	7.3	ug/L			01/05/18 20:48	10
Isopropylbenzene	46		10	7.9	ug/L			01/05/18 20:48	10
Methyl acetate	ND		25	13	ug/L			01/05/18 20:48	10
Methyl tert-butyl ether	39		10	1.6	ug/L			01/05/18 20:48	10
Methylcyclohexane	2.4	J	10	1.6	ug/L			01/05/18 20:48	10
Methylene Chloride	ND		10	4.4	ug/L			01/05/18 20:48	10
Styrene	ND		10	7.3	ug/L			01/05/18 20:48	10
Tetrachloroethene	ND		10	3.6	ug/L			01/05/18 20:48	10
Toluene	ND		10	5.1	ug/L			01/05/18 20:48	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			01/05/18 20:48	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			01/05/18 20:48	10
Trichloroethene	ND		10	4.6	ug/L			01/05/18 20:48	10
Trichlorofluoromethane	ND		10	8.8	ug/L			01/05/18 20:48	10
Vinyl chloride	220		10	9.0	ug/L			01/05/18 20:48	10
Xylenes, Total	620	F1	20	6.6	ug/L			01/05/18 20:48	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					01/05/18 20:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		01/05/18 20:48	10
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		01/05/18 20:48	10
4-Bromofluorobenzene (Surr)	109		73 - 120		01/05/18 20:48	10
Dibromofluoromethane (Surr)	107		75 - 123		01/05/18 20:48	10

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: ML-21
Date Collected: 01/03/18 10:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			01/08/18 12:57	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			01/08/18 12:57	100
1,1,2-Trichloroethane	ND		100	23	ug/L			01/08/18 12:57	100
1,1,2-Trichloro-1,2,2-trifluoroethane	140		100	31	ug/L			01/08/18 12:57	100
1,1-Dichloroethane	2200		100	38	ug/L			01/08/18 12:57	100
1,1-Dichloroethene	ND		100	29	ug/L			01/08/18 12:57	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			01/08/18 12:57	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			01/08/18 12:57	100
1,2-Dichlorobenzene	ND		100	79	ug/L			01/08/18 12:57	100
1,2-Dichloroethane	ND		100	21	ug/L			01/08/18 12:57	100
1,2-Dichloropropane	ND		100	72	ug/L			01/08/18 12:57	100
1,3-Dichlorobenzene	ND		100	78	ug/L			01/08/18 12:57	100
1,4-Dichlorobenzene	ND		100	84	ug/L			01/08/18 12:57	100
2-Butanone (MEK)	ND		1000	130	ug/L			01/08/18 12:57	100
2-Hexanone	ND		500	120	ug/L			01/08/18 12:57	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			01/08/18 12:57	100
Acetone	ND *		1000	300	ug/L			01/08/18 12:57	100
Benzene	ND		100	41	ug/L			01/08/18 12:57	100
Bromodichloromethane	ND		100	39	ug/L			01/08/18 12:57	100
Bromoform	ND		100	26	ug/L			01/08/18 12:57	100
Bromomethane	ND		100	69	ug/L			01/08/18 12:57	100
Carbon disulfide	ND		100	19	ug/L			01/08/18 12:57	100
Carbon tetrachloride	ND		100	27	ug/L			01/08/18 12:57	100
Chlorobenzene	ND		100	75	ug/L			01/08/18 12:57	100
Dibromochloromethane	ND		100	32	ug/L			01/08/18 12:57	100
Chloroethane	ND		100	32	ug/L			01/08/18 12:57	100
Chloroform	ND		100	34	ug/L			01/08/18 12:57	100
Chloromethane	ND		100	35	ug/L			01/08/18 12:57	100
cis-1,2-Dichloroethene	6700		100	81	ug/L			01/08/18 12:57	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			01/08/18 12:57	100
Cyclohexane	ND		100	18	ug/L			01/08/18 12:57	100
Dichlorodifluoromethane	ND		100	68	ug/L			01/08/18 12:57	100
Ethylbenzene	ND		100	74	ug/L			01/08/18 12:57	100
1,2-Dibromoethane	ND		100	73	ug/L			01/08/18 12:57	100
Isopropylbenzene	ND		100	79	ug/L			01/08/18 12:57	100
Methyl acetate	ND		250	130	ug/L			01/08/18 12:57	100
Methyl tert-butyl ether	ND		100	16	ug/L			01/08/18 12:57	100
Methylcyclohexane	ND		100	16	ug/L			01/08/18 12:57	100
Methylene Chloride	ND		100	44	ug/L			01/08/18 12:57	100
Styrene	ND		100	73	ug/L			01/08/18 12:57	100
Tetrachloroethene	ND		100	36	ug/L			01/08/18 12:57	100
Toluene	510		100	51	ug/L			01/08/18 12:57	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			01/08/18 12:57	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			01/08/18 12:57	100
Trichloroethene	ND		100	46	ug/L			01/08/18 12:57	100
Trichlorofluoromethane	ND		100	88	ug/L			01/08/18 12:57	100
Vinyl chloride	2300		100	90	ug/L			01/08/18 12:57	100
Xylenes, Total	110 J		200	66	ug/L			01/08/18 12:57	100

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: ML-2I
Date Collected: 01/03/18 10:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-5
Matrix: Water

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ethane, 1,2-dichloro-1,1,2-trifluoro-</i>	590	T J N	ug/L		2.52	354-23-4		01/08/18 12:57	100

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	99		80 - 120		01/08/18 12:57	100
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		77 - 120		01/08/18 12:57	100
<i>4-Bromofluorobenzene (Surr)</i>	102		73 - 120		01/08/18 12:57	100
<i>Dibromofluoromethane (Surr)</i>	104		75 - 123		01/08/18 12:57	100

Client Sample ID: ML-2D
Date Collected: 01/03/18 12:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	35		2.0	1.6	ug/L			01/08/18 13:24	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			01/08/18 13:24	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			01/08/18 13:24	2
1,1,2-Trichloro-1,2,2-trifluoroethane	24		2.0	0.62	ug/L			01/08/18 13:24	2
1,1-Dichloroethane	140		2.0	0.76	ug/L			01/08/18 13:24	2
1,1-Dichloroethene	2.2		2.0	0.58	ug/L			01/08/18 13:24	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			01/08/18 13:24	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			01/08/18 13:24	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			01/08/18 13:24	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			01/08/18 13:24	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			01/08/18 13:24	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			01/08/18 13:24	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			01/08/18 13:24	2
2-Butanone (MEK)	2.8 J		20	2.6	ug/L			01/08/18 13:24	2
2-Hexanone	ND		10	2.5	ug/L			01/08/18 13:24	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			01/08/18 13:24	2
Acetone	10 J*		20	6.0	ug/L			01/08/18 13:24	2
Benzene	2.3		2.0	0.82	ug/L			01/08/18 13:24	2
Bromodichloromethane	ND		2.0	0.78	ug/L			01/08/18 13:24	2
Bromoform	ND		2.0	0.52	ug/L			01/08/18 13:24	2
Bromomethane	ND		2.0	1.4	ug/L			01/08/18 13:24	2
Carbon disulfide	ND		2.0	0.38	ug/L			01/08/18 13:24	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			01/08/18 13:24	2
Chlorobenzene	ND		2.0	1.5	ug/L			01/08/18 13:24	2
Dibromochloromethane	ND		2.0	0.64	ug/L			01/08/18 13:24	2
Chloroethane	15		2.0	0.64	ug/L			01/08/18 13:24	2
Chloroform	ND		2.0	0.68	ug/L			01/08/18 13:24	2
Chloromethane	ND		2.0	0.70	ug/L			01/08/18 13:24	2
cis-1,2-Dichloroethene	150		2.0	1.6	ug/L			01/08/18 13:24	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			01/08/18 13:24	2
Cyclohexane	ND		2.0	0.36	ug/L			01/08/18 13:24	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			01/08/18 13:24	2
Ethylbenzene	ND		2.0	1.5	ug/L			01/08/18 13:24	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			01/08/18 13:24	2
Isopropylbenzene	ND		2.0	1.6	ug/L			01/08/18 13:24	2
Methyl acetate	ND		5.0	2.6	ug/L			01/08/18 13:24	2

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: ML-2D

Lab Sample ID: 480-129748-6

Date Collected: 01/03/18 12:30

Matrix: Water

Date Received: 01/05/18 11:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	0.87	J	2.0	0.32	ug/L			01/08/18 13:24	2
Methylcyclohexane	0.36	J	2.0	0.32	ug/L			01/08/18 13:24	2
Methylene Chloride	ND		2.0	0.88	ug/L			01/08/18 13:24	2
Styrene	ND		2.0	1.5	ug/L			01/08/18 13:24	2
Tetrachloroethene	ND		2.0	0.72	ug/L			01/08/18 13:24	2
Toluene	2.0		2.0	1.0	ug/L			01/08/18 13:24	2
trans-1,2-Dichloroethene	4.1		2.0	1.8	ug/L			01/08/18 13:24	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			01/08/18 13:24	2
Trichloroethene	16		2.0	0.92	ug/L			01/08/18 13:24	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			01/08/18 13:24	2
Vinyl chloride	130		2.0	1.8	ug/L			01/08/18 13:24	2
Xylenes, Total	1.6	J	4.0	1.3	ug/L			01/08/18 13:24	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	9.2	TJ	ug/L		2.52			01/08/18 13:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		01/08/18 13:24	2
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		01/08/18 13:24	2
4-Bromofluorobenzene (Surr)	102		73 - 120		01/08/18 13:24	2
Dibromofluoromethane (Surr)	105		75 - 123		01/08/18 13:24	2

Surrogate Summary

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-129748-1	LBA-SBW-15	100	99	103	102
480-129748-1 MS	LBA-SBW-15	99	97	105	100
480-129748-1 MSD	LBA-SBW-15	97	100	102	105
480-129748-2	DUPE	97	101	102	104
480-129748-3	LBA-SBW-16	96	104	101	103
480-129748-4	ML-2S	94	106	109	107
480-129748-4 MS	ML-2S	93	100	107	101
480-129748-4 MSD	ML-2S	93	101	115	108
480-129748-5	ML-2I	99	101	102	104
480-129748-6	ML-2D	97	104	102	105
LCS 480-394701/5	Lab Control Sample	95	99	110	107
LCS 480-394763/4	Lab Control Sample	97	99	100	101
LCS 480-394793/5	Lab Control Sample	98	100	104	103
MB 480-394701/7	Method Blank	89	98	103	98
MB 480-394763/6	Method Blank	96	100	99	103
MB 480-394793/7	Method Blank	98	101	101	102

Surrogate Legend

- TOL = Toluene-d8 (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-394701/7

Matrix: Water

Analysis Batch: 394701

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/05/18 19:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/05/18 19:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/05/18 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/05/18 19:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/05/18 19:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/05/18 19:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/05/18 19:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/05/18 19:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/05/18 19:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/05/18 19:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/05/18 19:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/05/18 19:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/05/18 19:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/05/18 19:49	1
2-Hexanone	ND		5.0	1.2	ug/L			01/05/18 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/05/18 19:49	1
Acetone	ND		10	3.0	ug/L			01/05/18 19:49	1
Benzene	ND		1.0	0.41	ug/L			01/05/18 19:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/05/18 19:49	1
Bromoform	ND		1.0	0.26	ug/L			01/05/18 19:49	1
Bromomethane	ND		1.0	0.69	ug/L			01/05/18 19:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/05/18 19:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/05/18 19:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/05/18 19:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/05/18 19:49	1
Chloroethane	ND		1.0	0.32	ug/L			01/05/18 19:49	1
Chloroform	ND		1.0	0.34	ug/L			01/05/18 19:49	1
Chloromethane	ND		1.0	0.35	ug/L			01/05/18 19:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/05/18 19:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/05/18 19:49	1
Cyclohexane	ND		1.0	0.18	ug/L			01/05/18 19:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/05/18 19:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/05/18 19:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/05/18 19:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/05/18 19:49	1
Methyl acetate	ND		2.5	1.3	ug/L			01/05/18 19:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/05/18 19:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/05/18 19:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/05/18 19:49	1
Styrene	ND		1.0	0.73	ug/L			01/05/18 19:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/05/18 19:49	1
Toluene	ND		1.0	0.51	ug/L			01/05/18 19:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/05/18 19:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/05/18 19:49	1
Trichloroethene	ND		1.0	0.46	ug/L			01/05/18 19:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/05/18 19:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/05/18 19:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/05/18 19:49	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>01/05/18 19:49</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>89</i>		<i>80 - 120</i>		<i>01/05/18 19:49</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>98</i>		<i>77 - 120</i>		<i>01/05/18 19:49</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>103</i>		<i>73 - 120</i>		<i>01/05/18 19:49</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>98</i>		<i>75 - 123</i>		<i>01/05/18 19:49</i>	<i>1</i>

Lab Sample ID: LCS 480-394701/5
Matrix: Water
Analysis Batch: 394701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	29.9		ug/L		120	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		86	76 - 120
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.1		ug/L		120	61 - 148
1,1-Dichloroethane	25.0	25.1		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	27.9		ug/L		112	66 - 127
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		102	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.9		ug/L		108	56 - 134
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	26.2		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	24.3		ug/L		97	76 - 120
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 120
2-Butanone (MEK)	125	116		ug/L		92	57 - 140
2-Hexanone	125	101		ug/L		81	65 - 127
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	71 - 125
Acetone	125	120		ug/L		96	56 - 142
Benzene	25.0	26.0		ug/L		104	71 - 124
Bromodichloromethane	25.0	28.0		ug/L		112	80 - 122
Bromoform	25.0	28.5		ug/L		114	61 - 132
Bromomethane	25.0	27.6		ug/L		110	55 - 144
Carbon disulfide	25.0	25.7		ug/L		103	59 - 134
Carbon tetrachloride	25.0	32.1		ug/L		128	72 - 134
Chlorobenzene	25.0	25.3		ug/L		101	80 - 120
Dibromochloromethane	25.0	27.9		ug/L		111	75 - 125
Chloroethane	25.0	24.6		ug/L		98	69 - 136
Chloroform	25.0	27.8		ug/L		111	73 - 127
Chloromethane	25.0	21.9		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	27.9		ug/L		112	74 - 124
cis-1,3-Dichloropropene	25.0	27.1		ug/L		109	74 - 124
Cyclohexane	25.0	23.6		ug/L		94	59 - 135
Dichlorodifluoromethane	25.0	27.6		ug/L		110	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
1,2-Dibromoethane	25.0	26.0		ug/L		104	77 - 120
Isopropylbenzene	25.0	24.0		ug/L		96	77 - 122
Methyl acetate	50.0	46.4		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	26.8		ug/L		107	77 - 120
Methylcyclohexane	25.0	27.0		ug/L		108	68 - 134
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-394701/5

Matrix: Water

Analysis Batch: 394701

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	25.2		ug/L		101	80 - 120
Tetrachloroethene	25.0	29.9		ug/L		120	74 - 122
Toluene	25.0	25.9		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	28.9		ug/L		116	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	28.6		ug/L		114	74 - 123
Trichlorofluoromethane	25.0	28.2		ug/L		113	62 - 150
Vinyl chloride	25.0	22.7		ug/L		91	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

Lab Sample ID: 480-129748-4 MS

Matrix: Water

Analysis Batch: 394701

Client Sample ID: ML-2S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	271		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	202		ug/L		81	76 - 120
1,1,2-Trichloroethane	ND		250	223		ug/L		89	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	249		ug/L		100	61 - 148
1,1-Dichloroethane	ND		250	225		ug/L		90	77 - 120
1,1-Dichloroethene	ND		250	243		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	ND		250	241		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	231		ug/L		92	56 - 134
1,2-Dichlorobenzene	ND		250	242		ug/L		97	80 - 124
1,2-Dichloroethane	ND		250	244		ug/L		98	75 - 120
1,2-Dichloropropane	ND		250	214		ug/L		86	76 - 120
1,3-Dichlorobenzene	ND		250	246		ug/L		98	77 - 120
1,4-Dichlorobenzene	ND		250	245		ug/L		98	78 - 124
2-Butanone (MEK)	ND		1250	958		ug/L		77	57 - 140
2-Hexanone	ND		1250	869		ug/L		70	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	927		ug/L		74	71 - 125
Acetone	ND		1250	982		ug/L		79	56 - 142
Benzene	25		250	258		ug/L		93	71 - 124
Bromodichloromethane	ND		250	240		ug/L		96	80 - 122
Bromoform	ND		250	243		ug/L		97	61 - 132
Bromomethane	ND		250	270		ug/L		108	55 - 144
Carbon disulfide	ND		250	229		ug/L		92	59 - 134
Carbon tetrachloride	ND		250	276		ug/L		110	72 - 134
Chlorobenzene	ND		250	233		ug/L		93	80 - 120
Dibromochloromethane	ND		250	230		ug/L		92	75 - 125
Chloroethane	ND		250	243		ug/L		97	69 - 136
Chloroform	ND		250	246		ug/L		99	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129748-4 MS

Matrix: Water

Analysis Batch: 394701

Client Sample ID: ML-2S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		250	222		ug/L		89	68 - 124
cis-1,2-Dichloroethene	560	F1	250	719	F1	ug/L		65	74 - 124
cis-1,3-Dichloropropene	ND		250	230		ug/L		92	74 - 124
Cyclohexane	ND		250	212		ug/L		85	59 - 135
Dichlorodifluoromethane	ND		250	290		ug/L		116	59 - 135
Ethylbenzene	13		250	234		ug/L		88	77 - 123
1,2-Dibromoethane	ND		250	231		ug/L		92	77 - 120
Isopropylbenzene	46		250	268		ug/L		89	77 - 122
Methyl acetate	ND		500	385		ug/L		77	74 - 133
Methyl tert-butyl ether	39		250	270		ug/L		92	77 - 120
Methylcyclohexane	2.4	J	250	239		ug/L		95	68 - 134
Methylene Chloride	ND		250	244		ug/L		98	75 - 124
Styrene	ND		250	225		ug/L		90	80 - 120
Tetrachloroethene	ND		250	276		ug/L		111	74 - 122
Toluene	ND		250	229		ug/L		92	80 - 122
trans-1,2-Dichloroethene	ND		250	258		ug/L		103	73 - 127
trans-1,3-Dichloropropene	ND		250	212		ug/L		85	80 - 120
Trichloroethene	ND		250	249		ug/L		100	74 - 123
Trichlorofluoromethane	ND		250	299		ug/L		120	62 - 150
Vinyl chloride	220		250	441		ug/L		90	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	93		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: 480-129748-4 MSD

Matrix: Water

Analysis Batch: 394701

Client Sample ID: ML-2S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	266		ug/L		106	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		250	195		ug/L		78	76 - 120	4	15
1,1,2-Trichloroethane	ND		250	234		ug/L		94	76 - 122	5	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	276		ug/L		110	61 - 148	10	20
1,1-Dichloroethane	ND		250	220		ug/L		88	77 - 120	2	20
1,1-Dichloroethene	ND		250	245		ug/L		98	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		250	236		ug/L		94	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		250	225		ug/L		90	56 - 134	3	15
1,2-Dichlorobenzene	ND		250	232		ug/L		93	80 - 124	4	20
1,2-Dichloroethane	ND		250	241		ug/L		96	75 - 120	1	20
1,2-Dichloropropane	ND		250	215		ug/L		86	76 - 120	1	20
1,3-Dichlorobenzene	ND		250	230		ug/L		92	77 - 120	7	20
1,4-Dichlorobenzene	ND		250	233		ug/L		93	78 - 124	5	20
2-Butanone (MEK)	ND		1250	993		ug/L		79	57 - 140	4	20
2-Hexanone	ND		1250	891		ug/L		71	65 - 127	2	15

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129748-4 MSD

Matrix: Water

Analysis Batch: 394701

Client Sample ID: ML-2S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		1250	937		ug/L		75	71 - 125	1	35
Acetone	ND		1250	986		ug/L		79	56 - 142	0	15
Benzene	25		250	259		ug/L		93	71 - 124	0	13
Bromodichloromethane	ND		250	249		ug/L		100	80 - 122	4	15
Bromoform	ND		250	274		ug/L		110	61 - 132	12	15
Bromomethane	ND		250	249		ug/L		99	55 - 144	8	15
Carbon disulfide	ND		250	230		ug/L		92	59 - 134	0	15
Carbon tetrachloride	ND		250	291		ug/L		116	72 - 134	6	15
Chlorobenzene	ND		250	237		ug/L		95	80 - 120	2	25
Dibromochloromethane	ND		250	258		ug/L		103	75 - 125	11	15
Chloroethane	ND		250	244		ug/L		98	69 - 136	1	15
Chloroform	ND		250	249		ug/L		99	73 - 127	1	20
Chloromethane	ND		250	210		ug/L		84	68 - 124	5	15
cis-1,2-Dichloroethene	560	F1	250	692	F1	ug/L		54	74 - 124	4	15
cis-1,3-Dichloropropene	ND		250	239		ug/L		96	74 - 124	4	15
Cyclohexane	ND		250	210		ug/L		84	59 - 135	1	20
Dichlorodifluoromethane	ND		250	281		ug/L		112	59 - 135	3	20
Ethylbenzene	13		250	244		ug/L		92	77 - 123	4	15
1,2-Dibromoethane	ND		250	246		ug/L		98	77 - 120	6	15
Isopropylbenzene	46		250	255		ug/L		84	77 - 122	5	20
Methyl acetate	ND		500	412		ug/L		82	74 - 133	7	20
Methyl tert-butyl ether	39		250	268		ug/L		91	77 - 120	1	37
Methylcyclohexane	2.4	J	250	231		ug/L		91	68 - 134	3	20
Methylene Chloride	ND		250	243		ug/L		97	75 - 124	0	15
Styrene	ND		250	226		ug/L		90	80 - 120	0	20
Tetrachloroethene	ND		250	285		ug/L		114	74 - 122	3	20
Toluene	ND		250	248		ug/L		99	80 - 122	8	15
trans-1,2-Dichloroethene	ND		250	260		ug/L		104	73 - 127	1	20
trans-1,3-Dichloropropene	ND		250	223		ug/L		89	80 - 120	5	15
Trichloroethene	ND		250	252		ug/L		101	74 - 123	1	16
Trichlorofluoromethane	ND		250	291		ug/L		116	62 - 150	3	20
Vinyl chloride	220		250	431		ug/L		86	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	93		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Lab Sample ID: MB 480-394763/6

Matrix: Water

Analysis Batch: 394763

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/07/18 19:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/07/18 19:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/07/18 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/07/18 19:12	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-394763/6
Matrix: Water
Analysis Batch: 394763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/07/18 19:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/07/18 19:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/07/18 19:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/07/18 19:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/07/18 19:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/07/18 19:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/07/18 19:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/07/18 19:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/07/18 19:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/07/18 19:12	1
2-Hexanone	ND		5.0	1.2	ug/L			01/07/18 19:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/07/18 19:12	1
Acetone	ND		10	3.0	ug/L			01/07/18 19:12	1
Benzene	ND		1.0	0.41	ug/L			01/07/18 19:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/07/18 19:12	1
Bromoform	ND		1.0	0.26	ug/L			01/07/18 19:12	1
Bromomethane	ND		1.0	0.69	ug/L			01/07/18 19:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/07/18 19:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/07/18 19:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/07/18 19:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/07/18 19:12	1
Chloroethane	ND		1.0	0.32	ug/L			01/07/18 19:12	1
Chloroform	ND		1.0	0.34	ug/L			01/07/18 19:12	1
Chloromethane	ND		1.0	0.35	ug/L			01/07/18 19:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/07/18 19:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/07/18 19:12	1
Cyclohexane	ND		1.0	0.18	ug/L			01/07/18 19:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/07/18 19:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/07/18 19:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/07/18 19:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/07/18 19:12	1
Methyl acetate	ND		2.5	1.3	ug/L			01/07/18 19:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/07/18 19:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/07/18 19:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/07/18 19:12	1
Styrene	ND		1.0	0.73	ug/L			01/07/18 19:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/07/18 19:12	1
Toluene	ND		1.0	0.51	ug/L			01/07/18 19:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/07/18 19:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/07/18 19:12	1
Trichloroethene	ND		1.0	0.46	ug/L			01/07/18 19:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/07/18 19:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/07/18 19:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/07/18 19:12	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L					01/07/18 19:12	1

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-394763/6
Matrix: Water
Analysis Batch: 394763

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		80 - 120		01/07/18 19:12	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/07/18 19:12	1
4-Bromofluorobenzene (Surr)	99		73 - 120		01/07/18 19:12	1
Dibromofluoromethane (Surr)	103		75 - 123		01/07/18 19:12	1

Lab Sample ID: LCS 480-394763/4
Matrix: Water
Analysis Batch: 394763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloroethane	25.0	26.1		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2		ug/L		109	61 - 148
1,1-Dichloroethane	25.0	25.3		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.6		ug/L		102	56 - 134
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	25.4		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	27.0		ug/L		108	76 - 120
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 120
2-Butanone (MEK)	125	149		ug/L		119	57 - 140
2-Hexanone	125	131		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		110	71 - 125
Acetone	125	190 *		ug/L		152	56 - 142
Benzene	25.0	26.6		ug/L		106	71 - 124
Bromodichloromethane	25.0	27.1		ug/L		108	80 - 122
Bromoform	25.0	27.8		ug/L		111	61 - 132
Bromomethane	25.0	24.6		ug/L		98	55 - 144
Carbon disulfide	25.0	24.6		ug/L		99	59 - 134
Carbon tetrachloride	25.0	28.1		ug/L		112	72 - 134
Chlorobenzene	25.0	25.4		ug/L		101	80 - 120
Dibromochloromethane	25.0	27.8		ug/L		111	75 - 125
Chloroethane	25.0	23.5		ug/L		94	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	20.8		ug/L		83	68 - 124
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	28.5		ug/L		114	74 - 124
Cyclohexane	25.0	24.7		ug/L		99	59 - 135
Dichlorodifluoromethane	25.0	22.9		ug/L		91	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	26.6		ug/L		106	77 - 120
Isopropylbenzene	25.0	25.8		ug/L		103	77 - 122
Methyl acetate	50.0	56.2		ug/L		112	74 - 133
Methyl tert-butyl ether	25.0	27.1		ug/L		108	77 - 120

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-394763/4
Matrix: Water
Analysis Batch: 394763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	25.0	27.0		ug/L		108	68 - 134
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124
Styrene	25.0	26.0		ug/L		104	80 - 120
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	24.0		ug/L		96	62 - 150
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: 480-129748-1 MS
Matrix: Water
Analysis Batch: 394763

Client Sample ID: LBA-SBW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2500	2730		ug/L		109	73 - 126
1,1,2,2-Tetrachloroethane	ND		2500	2550		ug/L		102	76 - 120
1,1,2-Trichloroethane	ND		2500	2570		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2870		ug/L		115	61 - 148
1,1-Dichloroethane	73	J	2500	2610		ug/L		102	77 - 120
1,1-Dichloroethene	ND		2500	2720		ug/L		109	66 - 127
1,2,4-Trichlorobenzene	ND		2500	2540		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	ND		2500	2470		ug/L		99	56 - 134
1,2-Dichlorobenzene	ND		2500	2590		ug/L		104	80 - 124
1,2-Dichloroethane	ND		2500	2470		ug/L		99	75 - 120
1,2-Dichloropropane	ND		2500	2650		ug/L		106	76 - 120
1,3-Dichlorobenzene	ND		2500	2610		ug/L		105	77 - 120
1,4-Dichlorobenzene	ND		2500	2540		ug/L		101	78 - 124
2-Butanone (MEK)	ND		12500	14500		ug/L		116	57 - 140
2-Hexanone	ND		12500	13100		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		12500	13500		ug/L		108	71 - 125
Acetone	ND	* F1	12500	17700		ug/L		142	56 - 142
Benzene	48	J	2500	2680		ug/L		105	71 - 124
Bromodichloromethane	ND		2500	2590		ug/L		104	80 - 122
Bromoform	ND		2500	2560		ug/L		102	61 - 132
Bromomethane	ND		2500	2680		ug/L		107	55 - 144
Carbon disulfide	ND		2500	2560		ug/L		102	59 - 134
Carbon tetrachloride	ND		2500	2920		ug/L		117	72 - 134
Chlorobenzene	ND		2500	2640		ug/L		106	80 - 120
Dibromochloromethane	ND		2500	2660		ug/L		106	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129748-1 MS

Matrix: Water

Analysis Batch: 394763

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	240		2500	2900		ug/L		106	69 - 136
Chloroform	ND		2500	2540		ug/L		102	73 - 127
Chloromethane	ND		2500	2400		ug/L		96	68 - 124
cis-1,2-Dichloroethene	3600		2500	6280		ug/L		109	74 - 124
cis-1,3-Dichloropropene	ND		2500	2590		ug/L		104	74 - 124
Cyclohexane	ND		2500	2620		ug/L		105	59 - 135
Dichlorodifluoromethane	ND		2500	2690		ug/L		108	59 - 135
Ethylbenzene	ND		2500	2620		ug/L		105	77 - 123
1,2-Dibromoethane	ND		2500	2700		ug/L		108	77 - 120
Isopropylbenzene	ND		2500	2660		ug/L		107	77 - 122
Methyl acetate	ND		5000	5290		ug/L		106	74 - 133
Methyl tert-butyl ether	ND		2500	2580		ug/L		103	77 - 120
Methylcyclohexane	ND		2500	2740		ug/L		110	68 - 134
Methylene Chloride	ND		2500	2570		ug/L		103	75 - 124
Styrene	ND		2500	2720		ug/L		109	80 - 120
Tetrachloroethene	ND		2500	2780		ug/L		111	74 - 122
Toluene	ND		2500	2690		ug/L		108	80 - 122
trans-1,2-Dichloroethene	ND		2500	2710		ug/L		109	73 - 127
trans-1,3-Dichloropropene	ND		2500	2540		ug/L		101	80 - 120
Trichloroethene	ND		2500	2650		ug/L		106	74 - 123
Trichlorofluoromethane	ND		2500	2780		ug/L		111	62 - 150
Vinyl chloride	1600		2500	4310		ug/L		109	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: 480-129748-1 MSD

Matrix: Water

Analysis Batch: 394763

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		2500	2690		ug/L		108	73 - 126	1	15
1,1,1,2-Tetrachloroethane	ND		2500	2490		ug/L		99	76 - 120	2	15
1,1,2-Trichloroethane	ND		2500	2500		ug/L		100	76 - 122	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2800		ug/L		112	61 - 148	3	20
1,1-Dichloroethane	73	J	2500	2630		ug/L		102	77 - 120	1	20
1,1-Dichloroethene	ND		2500	2600		ug/L		104	66 - 127	4	16
1,2,4-Trichlorobenzene	ND		2500	2660		ug/L		106	79 - 122	5	20
1,2-Dibromo-3-Chloropropane	ND		2500	2450		ug/L		98	56 - 134	1	15
1,2-Dichlorobenzene	ND		2500	2640		ug/L		106	80 - 124	2	20
1,2-Dichloroethane	ND		2500	2450		ug/L		98	75 - 120	1	20
1,2-Dichloropropane	ND		2500	2650		ug/L		106	76 - 120	0	20
1,3-Dichlorobenzene	ND		2500	2610		ug/L		104	77 - 120	0	20
1,4-Dichlorobenzene	ND		2500	2490		ug/L		100	78 - 124	2	20

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129748-1 MSD

Matrix: Water

Analysis Batch: 394763

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	ND		12500	14700		ug/L		117	57 - 140	1	20
2-Hexanone	ND		12500	12600		ug/L		101	65 - 127	4	15
4-Methyl-2-pentanone (MIBK)	ND		12500	13100		ug/L		105	71 - 125	3	35
Acetone	ND	* F1	12500	18900	F1	ug/L		151	56 - 142	7	15
Benzene	48	J	2500	2630		ug/L		103	71 - 124	2	13
Bromodichloromethane	ND		2500	2650		ug/L		106	80 - 122	2	15
Bromoform	ND		2500	2450		ug/L		98	61 - 132	4	15
Bromomethane	ND		2500	2640		ug/L		106	55 - 144	1	15
Carbon disulfide	ND		2500	2480		ug/L		99	59 - 134	3	15
Carbon tetrachloride	ND		2500	2730		ug/L		109	72 - 134	7	15
Chlorobenzene	ND		2500	2540		ug/L		102	80 - 120	4	25
Dibromochloromethane	ND		2500	2660		ug/L		107	75 - 125	0	15
Chloroethane	240		2500	2840		ug/L		104	69 - 136	2	15
Chloroform	ND		2500	2500		ug/L		100	73 - 127	2	20
Chloromethane	ND		2500	2350		ug/L		94	68 - 124	2	15
cis-1,2-Dichloroethene	3600		2500	6060		ug/L		100	74 - 124	4	15
cis-1,3-Dichloropropene	ND		2500	2610		ug/L		104	74 - 124	1	15
Cyclohexane	ND		2500	2480		ug/L		99	59 - 135	6	20
Dichlorodifluoromethane	ND		2500	2490		ug/L		100	59 - 135	8	20
Ethylbenzene	ND		2500	2490		ug/L		100	77 - 123	5	15
1,2-Dibromoethane	ND		2500	2590		ug/L		104	77 - 120	4	15
Isopropylbenzene	ND		2500	2590		ug/L		104	77 - 122	3	20
Methyl acetate	ND		5000	5310		ug/L		106	74 - 133	0	20
Methyl tert-butyl ether	ND		2500	2590		ug/L		103	77 - 120	0	37
Methylcyclohexane	ND		2500	2610		ug/L		104	68 - 134	5	20
Methylene Chloride	ND		2500	2290		ug/L		92	75 - 124	12	15
Styrene	ND		2500	2610		ug/L		104	80 - 120	4	20
Tetrachloroethene	ND		2500	2660		ug/L		106	74 - 122	4	20
Toluene	ND		2500	2530		ug/L		101	80 - 122	6	15
trans-1,2-Dichloroethene	ND		2500	2660		ug/L		107	73 - 127	2	20
trans-1,3-Dichloropropene	ND		2500	2460		ug/L		99	80 - 120	3	15
Trichloroethene	ND		2500	2640		ug/L		106	74 - 123	0	16
Trichlorofluoromethane	ND		2500	2580		ug/L		103	62 - 150	7	20
Vinyl chloride	1600		2500	4110		ug/L		101	65 - 133	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Lab Sample ID: MB 480-394793/7

Matrix: Water

Analysis Batch: 394793

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/08/18 11:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/08/18 11:14	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-394793/7
Matrix: Water
Analysis Batch: 394793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/08/18 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/08/18 11:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/08/18 11:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/08/18 11:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/08/18 11:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/08/18 11:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/08/18 11:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/08/18 11:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/08/18 11:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/08/18 11:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/08/18 11:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/08/18 11:14	1
2-Hexanone	ND		5.0	1.2	ug/L			01/08/18 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/08/18 11:14	1
Acetone	ND		10	3.0	ug/L			01/08/18 11:14	1
Benzene	ND		1.0	0.41	ug/L			01/08/18 11:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/08/18 11:14	1
Bromoform	ND		1.0	0.26	ug/L			01/08/18 11:14	1
Bromomethane	ND		1.0	0.69	ug/L			01/08/18 11:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/08/18 11:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/08/18 11:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/08/18 11:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/08/18 11:14	1
Chloroethane	ND		1.0	0.32	ug/L			01/08/18 11:14	1
Chloroform	ND		1.0	0.34	ug/L			01/08/18 11:14	1
Chloromethane	ND		1.0	0.35	ug/L			01/08/18 11:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/08/18 11:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/08/18 11:14	1
Cyclohexane	ND		1.0	0.18	ug/L			01/08/18 11:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/08/18 11:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/08/18 11:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/08/18 11:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/08/18 11:14	1
Methyl acetate	ND		2.5	1.3	ug/L			01/08/18 11:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/08/18 11:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/08/18 11:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/08/18 11:14	1
Styrene	ND		1.0	0.73	ug/L			01/08/18 11:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/08/18 11:14	1
Toluene	ND		1.0	0.51	ug/L			01/08/18 11:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/08/18 11:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/08/18 11:14	1
Trichloroethene	ND		1.0	0.46	ug/L			01/08/18 11:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/08/18 11:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/08/18 11:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/08/18 11:14	1

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-394793/7
Matrix: Water
Analysis Batch: 394793

Client Sample ID: Method Blank
Prep Type: Total/NA

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>01/08/18 11:14</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>98</i>		<i>80 - 120</i>		<i>01/08/18 11:14</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>101</i>		<i>77 - 120</i>		<i>01/08/18 11:14</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>101</i>		<i>73 - 120</i>		<i>01/08/18 11:14</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>102</i>		<i>75 - 123</i>		<i>01/08/18 11:14</i>	<i>1</i>

Lab Sample ID: LCS 480-394793/5
Matrix: Water
Analysis Batch: 394793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	76 - 120
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.5		ug/L		110	61 - 148
1,1-Dichloroethane	25.0	25.5		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	56 - 134
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	25.1		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	26.7		ug/L		107	76 - 120
1,3-Dichlorobenzene	25.0	27.2		ug/L		109	77 - 120
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 120
2-Butanone (MEK)	125	158		ug/L		126	57 - 140
2-Hexanone	125	135		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	236 *		ug/L		189	56 - 142
Benzene	25.0	26.4		ug/L		106	71 - 124
Bromodichloromethane	25.0	26.7		ug/L		107	80 - 122
Bromoform	25.0	26.1		ug/L		104	61 - 132
Bromomethane	25.0	26.2		ug/L		105	55 - 144
Carbon disulfide	25.0	25.2		ug/L		101	59 - 134
Carbon tetrachloride	25.0	29.0		ug/L		116	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	27.0		ug/L		108	75 - 125
Chloroethane	25.0	25.6		ug/L		102	69 - 136
Chloroform	25.0	24.9		ug/L		99	73 - 127
Chloromethane	25.0	22.6		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	27.9		ug/L		112	74 - 124
Cyclohexane	25.0	27.4		ug/L		109	59 - 135
Dichlorodifluoromethane	25.0	27.7		ug/L		111	59 - 135
Ethylbenzene	25.0	26.3		ug/L		105	77 - 123
1,2-Dibromoethane	25.0	26.1		ug/L		105	77 - 120

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-394793/5
Matrix: Water
Analysis Batch: 394793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	26.7		ug/L		107	77 - 122
Methyl acetate	50.0	52.0		ug/L		104	74 - 133
Methyl tert-butyl ether	25.0	25.8		ug/L		103	77 - 120
Methylcyclohexane	25.0	28.7		ug/L		115	68 - 134
Methylene Chloride	25.0	21.7		ug/L		87	75 - 124
Styrene	25.0	26.8		ug/L		107	80 - 120
Tetrachloroethene	25.0	28.2		ug/L		113	74 - 122
Toluene	25.0	25.9		ug/L		104	80 - 122
trans-1,2-Dichloroethene	25.0	26.6		ug/L		106	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	27.2		ug/L		109	74 - 123
Trichlorofluoromethane	25.0	28.1		ug/L		112	62 - 150
Vinyl chloride	25.0	26.1		ug/L		104	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>Toluene-d8 (Surr)</i>	98		80 - 120
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		77 - 120
<i>4-Bromofluorobenzene (Surr)</i>	104		73 - 120
<i>Dibromofluoromethane (Surr)</i>	103		75 - 123

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

GC/MS VOA

Analysis Batch: 394701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129748-4	ML-2S	Total/NA	Water	8260C	
MB 480-394701/7	Method Blank	Total/NA	Water	8260C	
LCS 480-394701/5	Lab Control Sample	Total/NA	Water	8260C	
480-129748-4 MS	ML-2S	Total/NA	Water	8260C	
480-129748-4 MSD	ML-2S	Total/NA	Water	8260C	

Analysis Batch: 394763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129748-1	LBA-SBW-15	Total/NA	Water	8260C	
480-129748-2	DUPE	Total/NA	Water	8260C	
480-129748-3	LBA-SBW-16	Total/NA	Water	8260C	
MB 480-394763/6	Method Blank	Total/NA	Water	8260C	
LCS 480-394763/4	Lab Control Sample	Total/NA	Water	8260C	
480-129748-1 MS	LBA-SBW-15	Total/NA	Water	8260C	
480-129748-1 MSD	LBA-SBW-15	Total/NA	Water	8260C	

Analysis Batch: 394793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129748-5	ML-2I	Total/NA	Water	8260C	
480-129748-6	ML-2D	Total/NA	Water	8260C	
MB 480-394793/7	Method Blank	Total/NA	Water	8260C	
LCS 480-394793/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Client Sample ID: LBA-SBW-15

Date Collected: 01/02/18 10:45
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	394763	01/08/18 02:37	AMM	TAL BUF

Client Sample ID: DUPE

Date Collected: 01/02/18 00:00
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	394763	01/08/18 03:04	AMM	TAL BUF

Client Sample ID: LBA-SBW-16

Date Collected: 01/02/18 14:05
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	394763	01/08/18 03:31	AMM	TAL BUF

Client Sample ID: ML-2S

Date Collected: 01/02/18 15:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	394701	01/05/18 20:48	RRS	TAL BUF

Client Sample ID: ML-2I

Date Collected: 01/03/18 10:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	394793	01/08/18 12:57	ARS	TAL BUF

Client Sample ID: ML-2D

Date Collected: 01/03/18 12:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129748-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	394793	01/08/18 13:24	ARS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129748-2

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
LBA-SBW-15	480-129748-1	102	99	100	103
DUPE	480-129748-2	104	101	97	102
LBA-SBW-16	480-129748-3	103	104	96	101
ML-2S	480-129748-4	107	106	94	109
ML-2I	480-129748-5	104	101	99	102
ML-2D	480-129748-6	105	104	97	102
	MB 480-394701/7	98	98	89	103
	MB 480-394763/6	103	100	96	99
	MB 480-394793/7	102	101	98	101
	LCS 480-394701/5	107	99	95	110
	LCS 480-394763/4	101	99	97	100
	LCS 480-394793/5	103	100	98	104
LBA-SBW-15 MS	480-129748-1 MS	100	97	99	105
ML-2S MS	480-129748-4 MS	101	100	93	107
LBA-SBW-15 MSD	480-129748-1 MSD	105	100	97	102
ML-2S MSD	480-129748-4 MSD	108	101	93	115

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T3681.D

Lab ID: LCS 480-394701/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	29.9	120	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.6	86	76-120	
1,1,2-Trichloroethane	25.0	24.8	99	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.1	120	61-148	
1,1-Dichloroethane	25.0	25.1	100	77-120	
1,1-Dichloroethene	25.0	27.9	112	66-127	
1,2,4-Trichlorobenzene	25.0	25.6	102	79-122	
1,2-Dibromo-3-Chloropropane	25.0	26.9	108	56-134	
1,2-Dichlorobenzene	25.0	25.8	103	80-124	
1,2-Dichloroethane	25.0	26.2	105	75-120	
1,2-Dichloropropane	25.0	24.3	97	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	25.6	102	80-120	
2-Butanone (MEK)	125	116	92	57-140	
2-Hexanone	125	101	81	65-127	
4-Methyl-2-pentanone (MIBK)	125	105	84	71-125	
Acetone	125	120	96	56-142	
Benzene	25.0	26.0	104	71-124	
Bromodichloromethane	25.0	28.0	112	80-122	
Bromoform	25.0	28.5	114	61-132	
Bromomethane	25.0	27.6	110	55-144	
Carbon disulfide	25.0	25.7	103	59-134	
Carbon tetrachloride	25.0	32.1	128	72-134	
Chlorobenzene	25.0	25.3	101	80-120	
Dibromochloromethane	25.0	27.9	111	75-125	
Chloroethane	25.0	24.6	98	69-136	
Chloroform	25.0	27.8	111	73-127	
Chloromethane	25.0	21.9	88	68-124	
cis-1,2-Dichloroethene	25.0	27.9	112	74-124	
cis-1,3-Dichloropropene	25.0	27.1	109	74-124	
Cyclohexane	25.0	23.6	94	59-135	
Dichlorodifluoromethane	25.0	27.6	110	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
1,2-Dibromoethane	25.0	26.0	104	77-120	
Isopropylbenzene	25.0	24.0	96	77-122	
Methyl acetate	50.0	46.4	93	74-133	
Methyl tert-butyl ether	25.0	26.8	107	77-120	
Methylcyclohexane	25.0	27.0	108	68-134	
Methylene Chloride	25.0	25.0	100	75-124	
Styrene	25.0	25.2	101	80-120	
Tetrachloroethene	25.0	29.9	120	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: T3681.D

Lab ID: LCS 480-394701/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.9	104	80-122	
trans-1,2-Dichloroethene	25.0	28.9	116	73-127	
trans-1,3-Dichloropropene	25.0	24.6	98	80-120	
Trichloroethene	25.0	28.6	114	74-123	
Trichlorofluoromethane	25.0	28.2	113	62-150	
Vinyl chloride	25.0	22.7	91	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N6098.D

Lab ID: LCS 480-394763/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.8	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.9	104	76-120	
1,1,2-Trichloroethane	25.0	26.1	104	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2	109	61-148	
1,1-Dichloroethane	25.0	25.3	101	77-120	
1,1-Dichloroethene	25.0	25.1	101	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	25.6	102	56-134	
1,2-Dichlorobenzene	25.0	26.0	104	80-124	
1,2-Dichloroethane	25.0	25.4	102	75-120	
1,2-Dichloropropane	25.0	27.0	108	76-120	
1,3-Dichlorobenzene	25.0	25.9	104	77-120	
1,4-Dichlorobenzene	25.0	25.4	102	80-120	
2-Butanone (MEK)	125	149	119	57-140	
2-Hexanone	125	131	105	65-127	
4-Methyl-2-pentanone (MIBK)	125	137	110	71-125	
Acetone	125	190	152	56-142	*
Benzene	25.0	26.6	106	71-124	
Bromodichloromethane	25.0	27.1	108	80-122	
Bromoform	25.0	27.8	111	61-132	
Bromomethane	25.0	24.6	98	55-144	
Carbon disulfide	25.0	24.6	99	59-134	
Carbon tetrachloride	25.0	28.1	112	72-134	
Chlorobenzene	25.0	25.4	101	80-120	
Dibromochloromethane	25.0	27.8	111	75-125	
Chloroethane	25.0	23.5	94	69-136	
Chloroform	25.0	25.1	100	73-127	
Chloromethane	25.0	20.8	83	68-124	
cis-1,2-Dichloroethene	25.0	26.1	104	74-124	
cis-1,3-Dichloropropene	25.0	28.5	114	74-124	
Cyclohexane	25.0	24.7	99	59-135	
Dichlorodifluoromethane	25.0	22.9	91	59-135	
Ethylbenzene	25.0	25.0	100	77-123	
1,2-Dibromoethane	25.0	26.6	106	77-120	
Isopropylbenzene	25.0	25.8	103	77-122	
Methyl acetate	50.0	56.2	112	74-133	
Methyl tert-butyl ether	25.0	27.1	108	77-120	
Methylcyclohexane	25.0	27.0	108	68-134	
Methylene Chloride	25.0	25.0	100	75-124	
Styrene	25.0	26.0	104	80-120	
Tetrachloroethene	25.0	26.8	107	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N6098.D

Lab ID: LCS 480-394763/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.2	101	80-122	
trans-1,2-Dichloroethene	25.0	26.3	105	73-127	
trans-1,3-Dichloropropene	25.0	26.5	106	80-120	
Trichloroethene	25.0	26.7	107	74-123	
Trichlorofluoromethane	25.0	24.0	96	62-150	
Vinyl chloride	25.0	23.2	93	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N6125.D

Lab ID: LCS 480-394793/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.1	108	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.3	101	76-120	
1,1,2-Trichloroethane	25.0	25.9	104	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.5	110	61-148	
1,1-Dichloroethane	25.0	25.5	102	77-120	
1,1-Dichloroethene	25.0	25.1	100	66-127	
1,2,4-Trichlorobenzene	25.0	26.0	104	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.8	95	56-134	
1,2-Dichlorobenzene	25.0	26.4	106	80-124	
1,2-Dichloroethane	25.0	25.1	100	75-120	
1,2-Dichloropropane	25.0	26.7	107	76-120	
1,3-Dichlorobenzene	25.0	27.2	109	77-120	
1,4-Dichlorobenzene	25.0	25.7	103	80-120	
2-Butanone (MEK)	125	158	126	57-140	
2-Hexanone	125	135	108	65-127	
4-Methyl-2-pentanone (MIBK)	125	132	106	71-125	
Acetone	125	236	189	56-142	*
Benzene	25.0	26.4	106	71-124	
Bromodichloromethane	25.0	26.7	107	80-122	
Bromoform	25.0	26.1	104	61-132	
Bromomethane	25.0	26.2	105	55-144	
Carbon disulfide	25.0	25.2	101	59-134	
Carbon tetrachloride	25.0	29.0	116	72-134	
Chlorobenzene	25.0	25.8	103	80-120	
Dibromochloromethane	25.0	27.0	108	75-125	
Chloroethane	25.0	25.6	102	69-136	
Chloroform	25.0	24.9	99	73-127	
Chloromethane	25.0	22.6	90	68-124	
cis-1,2-Dichloroethene	25.0	25.9	104	74-124	
cis-1,3-Dichloropropene	25.0	27.9	112	74-124	
Cyclohexane	25.0	27.4	109	59-135	
Dichlorodifluoromethane	25.0	27.7	111	59-135	
Ethylbenzene	25.0	26.3	105	77-123	
1,2-Dibromoethane	25.0	26.1	105	77-120	
Isopropylbenzene	25.0	26.7	107	77-122	
Methyl acetate	50.0	52.0	104	74-133	
Methyl tert-butyl ether	25.0	25.8	103	77-120	
Methylcyclohexane	25.0	28.7	115	68-134	
Methylene Chloride	25.0	21.7	87	75-124	
Styrene	25.0	26.8	107	80-120	
Tetrachloroethene	25.0	28.2	113	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N6125.D

Lab ID: LCS 480-394793/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.9	104	80-122	
trans-1,2-Dichloroethene	25.0	26.6	106	73-127	
trans-1,3-Dichloropropene	25.0	26.3	105	80-120	
Trichloroethene	25.0	27.2	109	74-123	
Trichlorofluoromethane	25.0	28.1	112	62-150	
Vinyl chloride	25.0	26.1	104	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: N6119.D

Lab ID: 480-129748-1 MS

Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	ND	2730	109	73-126	
1,1,2,2-Tetrachloroethane	2500	ND	2550	102	76-120	
1,1,2-Trichloroethane	2500	ND	2570	103	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	ND	2870	115	61-148	
1,1-Dichloroethane	2500	73 J	2610	102	77-120	
1,1-Dichloroethene	2500	ND	2720	109	66-127	
1,2,4-Trichlorobenzene	2500	ND	2540	101	79-122	
1,2-Dibromo-3-Chloropropane	2500	ND	2470	99	56-134	
1,2-Dichlorobenzene	2500	ND	2590	104	80-124	
1,2-Dichloroethane	2500	ND	2470	99	75-120	
1,2-Dichloropropane	2500	ND	2650	106	76-120	
1,3-Dichlorobenzene	2500	ND	2610	105	77-120	
1,4-Dichlorobenzene	2500	ND	2540	101	78-124	
2-Butanone (MEK)	12500	ND	14500	116	57-140	
2-Hexanone	12500	ND	13100	105	65-127	
4-Methyl-2-pentanone (MIBK)	12500	ND	13500	108	71-125	
Acetone	12500	ND	17700	142	56-142	
Benzene	2500	48 J	2680	105	71-124	
Bromodichloromethane	2500	ND	2590	104	80-122	
Bromoform	2500	ND	2560	102	61-132	
Bromomethane	2500	ND	2680	107	55-144	
Carbon disulfide	2500	ND	2560	102	59-134	
Carbon tetrachloride	2500	ND	2920	117	72-134	
Chlorobenzene	2500	ND	2640	106	80-120	
Dibromochloromethane	2500	ND	2660	106	75-125	
Chloroethane	2500	240	2900	106	69-136	
Chloroform	2500	ND	2540	102	73-127	
Chloromethane	2500	ND	2400	96	68-124	
cis-1,2-Dichloroethene	2500	3600	6280	109	74-124	
cis-1,3-Dichloropropene	2500	ND	2590	104	74-124	
Cyclohexane	2500	ND	2620	105	59-135	
Dichlorodifluoromethane	2500	ND	2690	108	59-135	
Ethylbenzene	2500	ND	2620	105	77-123	
1,2-Dibromoethane	2500	ND	2700	108	77-120	
Isopropylbenzene	2500	ND	2660	107	77-122	
Methyl acetate	5000	ND	5290	106	74-133	
Methyl tert-butyl ether	2500	ND	2580	103	77-120	
Methylcyclohexane	2500	ND	2740	110	68-134	
Methylene Chloride	2500	ND	2570	103	75-124	
Styrene	2500	ND	2720	109	80-120	
Tetrachloroethene	2500	ND	2780	111	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N6119.D

Lab ID: 480-129748-1 MS Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	2500	ND	2690	108	80-122	
trans-1,2-Dichloroethene	2500	ND	2710	109	73-127	
trans-1,3-Dichloropropene	2500	ND	2540	101	80-120	
Trichloroethene	2500	ND	2650	106	74-123	
Trichlorofluoromethane	2500	ND	2780	111	62-150	
Vinyl chloride	2500	1600	4310	109	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T3700.D

Lab ID: 480-129748-4 MS

Client ID: ML-2S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	250	ND	271	108	73-126	
1,1,2,2-Tetrachloroethane	250	ND	202	81	76-120	
1,1,2-Trichloroethane	250	ND	223	89	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	ND	249	100	61-148	
1,1-Dichloroethane	250	ND	225	90	77-120	
1,1-Dichloroethene	250	ND	243	97	66-127	
1,2,4-Trichlorobenzene	250	ND	241	96	79-122	
1,2-Dibromo-3-Chloropropane	250	ND	231	92	56-134	
1,2-Dichlorobenzene	250	ND	242	97	80-124	
1,2-Dichloroethane	250	ND	244	98	75-120	
1,2-Dichloropropane	250	ND	214	86	76-120	
1,3-Dichlorobenzene	250	ND	246	98	77-120	
1,4-Dichlorobenzene	250	ND	245	98	78-124	
2-Butanone (MEK)	1250	ND	958	77	57-140	
2-Hexanone	1250	ND	869	70	65-127	
4-Methyl-2-pentanone (MIBK)	1250	ND	927	74	71-125	
Acetone	1250	ND	982	79	56-142	
Benzene	250	25	258	93	71-124	
Bromodichloromethane	250	ND	240	96	80-122	
Bromoform	250	ND	243	97	61-132	
Bromomethane	250	ND	270	108	55-144	
Carbon disulfide	250	ND	229	92	59-134	
Carbon tetrachloride	250	ND	276	110	72-134	
Chlorobenzene	250	ND	233	93	80-120	
Dibromochloromethane	250	ND	230	92	75-125	
Chloroethane	250	ND	243	97	69-136	
Chloroform	250	ND	246	99	73-127	
Chloromethane	250	ND	222	89	68-124	
cis-1,2-Dichloroethene	250	560	719	65	74-124	F1
cis-1,3-Dichloropropene	250	ND	230	92	74-124	
Cyclohexane	250	ND	212	85	59-135	
Dichlorodifluoromethane	250	ND	290	116	59-135	
Ethylbenzene	250	13	234	88	77-123	
1,2-Dibromoethane	250	ND	231	92	77-120	
Isopropylbenzene	250	46	268	89	77-122	
Methyl acetate	500	ND	385	77	74-133	
Methyl tert-butyl ether	250	39	270	92	77-120	
Methylcyclohexane	250	2.4 J	239	95	68-134	
Methylene Chloride	250	ND	244	98	75-124	
Styrene	250	ND	225	90	80-120	
Tetrachloroethene	250	ND	276	111	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3700.D
 Lab ID: 480-129748-4 MS Client ID: ML-2S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	250	ND	229	92	80-122	
trans-1,2-Dichloroethene	250	ND	258	103	73-127	
trans-1,3-Dichloropropene	250	ND	212	85	80-120	
Trichloroethene	250	ND	249	100	74-123	
Trichlorofluoromethane	250	ND	299	120	62-150	
Vinyl chloride	250	220	441	90	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: N6120.D

Lab ID: 480-129748-1 MSD

Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	2500	2690	108	1	15	73-126	
1,1,2,2-Tetrachloroethane	2500	2490	99	2	15	76-120	
1,1,2-Trichloroethane	2500	2500	100	3	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2800	112	3	20	61-148	
1,1-Dichloroethane	2500	2630	102	1	20	77-120	
1,1-Dichloroethene	2500	2600	104	4	16	66-127	
1,2,4-Trichlorobenzene	2500	2660	106	5	20	79-122	
1,2-Dibromo-3-Chloropropane	2500	2450	98	1	15	56-134	
1,2-Dichlorobenzene	2500	2640	106	2	20	80-124	
1,2-Dichloroethane	2500	2450	98	1	20	75-120	
1,2-Dichloropropane	2500	2650	106	0	20	76-120	
1,3-Dichlorobenzene	2500	2610	104	0	20	77-120	
1,4-Dichlorobenzene	2500	2490	100	2	20	78-124	
2-Butanone (MEK)	12500	14700	117	1	20	57-140	
2-Hexanone	12500	12600	101	4	15	65-127	
4-Methyl-2-pentanone (MIBK)	12500	13100	105	3	35	71-125	
Acetone	12500	18900	151	7	15	56-142	F1
Benzene	2500	2630	103	2	13	71-124	
Bromodichloromethane	2500	2650	106	2	15	80-122	
Bromoform	2500	2450	98	4	15	61-132	
Bromomethane	2500	2640	106	1	15	55-144	
Carbon disulfide	2500	2480	99	3	15	59-134	
Carbon tetrachloride	2500	2730	109	7	15	72-134	
Chlorobenzene	2500	2540	102	4	25	80-120	
Dibromochloromethane	2500	2660	107	0	15	75-125	
Chloroethane	2500	2840	104	2	15	69-136	
Chloroform	2500	2500	100	2	20	73-127	
Chloromethane	2500	2350	94	2	15	68-124	
cis-1,2-Dichloroethene	2500	6060	100	4	15	74-124	
cis-1,3-Dichloropropene	2500	2610	104	1	15	74-124	
Cyclohexane	2500	2480	99	6	20	59-135	
Dichlorodifluoromethane	2500	2490	100	8	20	59-135	
Ethylbenzene	2500	2490	100	5	15	77-123	
1,2-Dibromoethane	2500	2590	104	4	15	77-120	
Isopropylbenzene	2500	2590	104	3	20	77-122	
Methyl acetate	5000	5310	106	0	20	74-133	
Methyl tert-butyl ether	2500	2590	103	0	37	77-120	
Methylcyclohexane	2500	2610	104	5	20	68-134	
Methylene Chloride	2500	2290	92	12	15	75-124	
Styrene	2500	2610	104	4	20	80-120	
Tetrachloroethene	2500	2660	106	4	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6120.D
 Lab ID: 480-129748-1 MSD Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	2500	2530	101	6	15	80-122	
trans-1,2-Dichloroethene	2500	2660	107	2	20	73-127	
trans-1,3-Dichloropropene	2500	2460	99	3	15	80-120	
Trichloroethene	2500	2640	106	0	16	74-123	
Trichlorofluoromethane	2500	2580	103	7	20	62-150	
Vinyl chloride	2500	4110	101	5	15	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T3701.D

Lab ID: 480-129748-4 MSD

Client ID: ML-2S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	250	266	106	2	15	73-126	
1,1,2,2-Tetrachloroethane	250	195	78	4	15	76-120	
1,1,2-Trichloroethane	250	234	94	5	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	276	110	10	20	61-148	
1,1-Dichloroethane	250	220	88	2	20	77-120	
1,1-Dichloroethene	250	245	98	1	16	66-127	
1,2,4-Trichlorobenzene	250	236	94	2	20	79-122	
1,2-Dibromo-3-Chloropropane	250	225	90	3	15	56-134	
1,2-Dichlorobenzene	250	232	93	4	20	80-124	
1,2-Dichloroethane	250	241	96	1	20	75-120	
1,2-Dichloropropane	250	215	86	1	20	76-120	
1,3-Dichlorobenzene	250	230	92	7	20	77-120	
1,4-Dichlorobenzene	250	233	93	5	20	78-124	
2-Butanone (MEK)	1250	993	79	4	20	57-140	
2-Hexanone	1250	891	71	2	15	65-127	
4-Methyl-2-pentanone (MIBK)	1250	937	75	1	35	71-125	
Acetone	1250	986	79	0	15	56-142	
Benzene	250	259	93	0	13	71-124	
Bromodichloromethane	250	249	100	4	15	80-122	
Bromoform	250	274	110	12	15	61-132	
Bromomethane	250	249	99	8	15	55-144	
Carbon disulfide	250	230	92	0	15	59-134	
Carbon tetrachloride	250	291	116	6	15	72-134	
Chlorobenzene	250	237	95	2	25	80-120	
Dibromochloromethane	250	258	103	11	15	75-125	
Chloroethane	250	244	98	1	15	69-136	
Chloroform	250	249	99	1	20	73-127	
Chloromethane	250	210	84	5	15	68-124	
cis-1,2-Dichloroethene	250	692	54	4	15	74-124	F1
cis-1,3-Dichloropropene	250	239	96	4	15	74-124	
Cyclohexane	250	210	84	1	20	59-135	
Dichlorodifluoromethane	250	281	112	3	20	59-135	
Ethylbenzene	250	244	92	4	15	77-123	
1,2-Dibromoethane	250	246	98	6	15	77-120	
Isopropylbenzene	250	255	84	5	20	77-122	
Methyl acetate	500	412	82	7	20	74-133	
Methyl tert-butyl ether	250	268	91	1	37	77-120	
Methylcyclohexane	250	231	91	3	20	68-134	
Methylene Chloride	250	243	97	0	15	75-124	
Styrene	250	226	90	0	20	80-120	
Tetrachloroethene	250	285	114	3	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3701.D
 Lab ID: 480-129748-4 MSD Client ID: ML-2S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	250	248	99	8	15	80-122	
trans-1,2-Dichloroethene	250	260	104	1	20	73-127	
trans-1,3-Dichloropropene	250	223	89	5	15	80-120	
Trichloroethene	250	252	101	1	16	74-123	
Trichlorofluoromethane	250	291	116	3	20	62-150	
Vinyl chloride	250	431	86	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: T3683.D Lab Sample ID: MB 480-394701/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5975T Date Analyzed: 01/05/2018 19:49
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-394701/5	T3681.D	01/05/2018 18:47
ML-2S	480-129748-4	T3685.D	01/05/2018 20:48
ML-2S MS	480-129748-4 MS	T3700.D	01/06/2018 02:43
ML-2S MSD	480-129748-4 MSD	T3701.D	01/06/2018 03:07

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6100.D Lab Sample ID: MB 480-394763/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 01/07/2018 19:12
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-394763/4	N6098.D	01/07/2018 18:18
LBA-SBW-15	480-129748-1	N6116.D	01/08/2018 02:37
DUPE	480-129748-2	N6117.D	01/08/2018 03:04
LBA-SBW-16	480-129748-3	N6118.D	01/08/2018 03:31
LBA-SBW-15 MS	480-129748-1 MS	N6119.D	01/08/2018 03:58
LBA-SBW-15 MSD	480-129748-1 MSD	N6120.D	01/08/2018 04:25

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6127.D Lab Sample ID: MB 480-394793/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 01/08/2018 11:14
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-394793/5	N6125.D	01/08/2018 10:20
ML-2I	480-129748-5	N6130.D	01/08/2018 12:57
ML-2D	480-129748-6	N6131.D	01/08/2018 13:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N5943.D BFB Injection Date: 12/28/2017
 Instrument ID: HP5973N BFB Injection Time: 14:51
 Analysis Batch No.: 393925

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.7	
75	30.0 - 60.0 % of mass 95	50.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.2) 1
176	95.0 - 101.0 % of mass 174	87.3	(98.7) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-393925/6	N5945.D	12/28/2017	15:45
	IC 480-393925/7	N5946.D	12/28/2017	16:12
	IC 480-393925/8	N5947.D	12/28/2017	16:40
	IC 480-393925/9	N5948.D	12/28/2017	17:07
	IC 480-393925/10	N5949.D	12/28/2017	17:34
	ICIS 480-393925/11	N5950.D	12/28/2017	18:01
	IC 480-393925/12	N5951.D	12/28/2017	18:28
	IC 480-393925/13	N5952.D	12/28/2017	18:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6095.D BFB Injection Date: 01/07/2018
 Instrument ID: HP5973N BFB Injection Time: 17:00
 Analysis Batch No.: 394763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.3	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	93.0	
175	5.0 - 9.0 % of mass 174	7.1	(7.7) 1
176	95.0 - 101.0 % of mass 174	90.0	(96.8) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-394763/2	N6096.D	01/07/2018	17:24
	LCS 480-394763/4	N6098.D	01/07/2018	18:18
	MB 480-394763/6	N6100.D	01/07/2018	19:12
LBA-SBW-15	480-129748-1	N6116.D	01/08/2018	02:37
DUPE	480-129748-2	N6117.D	01/08/2018	03:04
LBA-SBW-16	480-129748-3	N6118.D	01/08/2018	03:31
LBA-SBW-15 MS	480-129748-1 MS	N6119.D	01/08/2018	03:58
LBA-SBW-15 MSD	480-129748-1 MSD	N6120.D	01/08/2018	04:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6122.D BFB Injection Date: 01/08/2018
 Instrument ID: HP5973N BFB Injection Time: 08:59
 Analysis Batch No.: 394793

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.0	
75	30.0 - 60.0 % of mass 95	49.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	101.5	
175	5.0 - 9.0 % of mass 174	8.5	(8.4) 1
176	95.0 - 101.0 % of mass 174	100.6	(99.2) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-394793/3	N6123.D	01/08/2018	09:25
	LCS 480-394793/5	N6125.D	01/08/2018	10:20
	MB 480-394793/7	N6127.D	01/08/2018	11:14
ML-2I	480-129748-5	N6130.D	01/08/2018	12:57
ML-2D	480-129748-6	N6131.D	01/08/2018	13:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: T2457.D BFB Injection Date: 12/01/2017
 Instrument ID: HP5975T BFB Injection Time: 14:21
 Analysis Batch No.: 390101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.9
75	30.0 - 60.0 % of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.2
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	75.2
175	5.0 - 9.0 % of mass 174	6.0 (8.0) 1
176	95.0 - 101.0 % of mass 174	74.2 (98.7) 1
177	5.0 - 9.0 % of mass 176	5.1 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-390101/13	T2459.D	12/01/2017	15:10
	IC 480-390101/14	T2460.D	12/01/2017	15:33
	IC 480-390101/15	T2461.D	12/01/2017	15:57
	IC 480-390101/16	T2462.D	12/01/2017	16:20
	IC 480-390101/17	T2463.D	12/01/2017	16:44
	ICIS 480-390101/18	T2464.D	12/01/2017	17:07
	IC 480-390101/19	T2465.D	12/01/2017	17:31
	IC 480-390101/20	T2466.D	12/01/2017	17:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: T3678.D BFB Injection Date: 01/05/2018
 Instrument ID: HP5975T BFB Injection Time: 17:19
 Analysis Batch No.: 394701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.0	
75	30.0 - 60.0 % of mass 95	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	91.4	
175	5.0 - 9.0 % of mass 174	6.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.2	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-394701/3	T3679.D	01/05/2018	17:45
	LCS 480-394701/5	T3681.D	01/05/2018	18:47
	MB 480-394701/7	T3683.D	01/05/2018	19:49
ML-2S	480-129748-4	T3685.D	01/05/2018	20:48
ML-2S MS	480-129748-4 MS	T3700.D	01/06/2018	02:43
ML-2S MSD	480-129748-4 MSD	T3701.D	01/06/2018	03:07

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: ICIS 480-393925/11 Date Analyzed: 12/28/2017 18:01
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N5950.D Heated Purge: (Y/N) N
 Calibration ID: 32489

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	169856	5.41	662244	8.39	345492	10.78
UPPER LIMIT	339712	5.91	1324488	8.89	690984	11.28
LOWER LIMIT	84928	4.91	331122	7.89	172746	10.28
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-394763/2	190354	5.41	773388	8.39	419230	10.79
CCVIS 480-394793/3	177811	5.41	709733	8.39	376852	10.79

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: CCVIS 480-394763/2 Date Analyzed: 01/07/2018 17:24
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N6096.D Heated Purge: (Y/N) N
 Calibration ID: 32491

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	190354	5.41	773388	8.39	419230	10.79	
UPPER LIMIT	380708	5.91	1546776	8.89	838460	11.29	
LOWER LIMIT	95177	4.91	386694	7.89	209615	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-394763/4	182998	5.41	741868	8.39	401709	10.78	
MB 480-394763/6	173961	5.41	696305	8.39	361439	10.78	
480-129748-1	LBA-SBW-15	167923	5.41	659982	8.39	339993	10.78
480-129748-2	DUPE	165613	5.41	656918	8.39	349427	10.78
480-129748-3	LBA-SBW-16	163827	5.41	683234	8.39	359933	10.78
480-129748-1 MS	LBA-SBW-15 MS	173274	5.41	688853	8.39	373949	10.78
480-129748-1 MSD	LBA-SBW-15 MSD	172869	5.41	691548	8.39	364318	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: CCVIS 480-394793/3 Date Analyzed: 01/08/2018 09:25
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N6123.D Heated Purge: (Y/N) N
 Calibration ID: 32491

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	177811	5.41	709733	8.39	376852	10.79	
UPPER LIMIT	355622	5.91	1419466	8.89	753704	11.29	
LOWER LIMIT	88906	4.91	354867	7.89	188426	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-394793/5	180621	5.41	726069	8.39	387684	10.79	
MB 480-394793/7	177975	5.41	707862	8.39	368540	10.78	
480-129748-5	ML-2I	168364	5.41	686436	8.39	356386	10.79
480-129748-6	ML-2D	167288	5.41	690447	8.39	356659	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: ICIS 480-390101/18 Date Analyzed: 12/01/2017 17:07
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T2464.D Heated Purge: (Y/N) N
 Calibration ID: 32266

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	140731	4.87	522268	7.17	287616	9.04
UPPER LIMIT	281462	5.37	1044536	7.67	575232	9.54
LOWER LIMIT	70366	4.37	261134	6.67	143808	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-394701/3	104129	4.87	421312	7.17	257233	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: CCVIS 480-394701/3 Date Analyzed: 01/05/2018 17:45
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T3679.D Heated Purge: (Y/N) N
 Calibration ID: 32269

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	104129	4.87	421312	7.17	257233	9.04	
UPPER LIMIT	208258	5.37	842624	7.67	514466	9.54	
LOWER LIMIT	52065	4.37	210656	6.67	128617	8.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-394701/5	107650	4.87	433439	7.17	272150	9.04	
MB 480-394701/7	110008	4.87	444281	7.17	267908	9.04	
480-129748-4	ML-2S	106354	4.87	431953	7.17	264390	9.04
480-129748-4 MS	ML-2S MS	111411	4.87	443598	7.17	261229	9.04
480-129748-4 MSD	ML-2S MSD	108009	4.87	421963	7.17	268144	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-129748-1
 Matrix: Water Lab File ID: N6116.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 02:37
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31
75-34-3	1,1-Dichloroethane	73	J	100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND	* F1	1000	300
71-43-2	Benzene	48	J	100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	240		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	3600		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-129748-1
 Matrix: Water Lab File ID: N6116.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 02:37
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	ND		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	1600		100	90
1330-20-7	Xylenes, Total	ND		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-129748-1
 Matrix: Water Lab File ID: N6116.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 02:37
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D
 Lims ID: 480-129748-J-1
 Client ID: LBA-SBW-15
 Sample Type: Client
 Inject. Date: 08-Jan-2018 02:37:30 ALS Bottle#: 22 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-129748-J-1
 Misc. Info.: 480-0068396-027
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:47:49 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: scibiliam

Date: 08-Jan-2018 09:47:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	167923	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	659982	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	96	339993	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	220799	25.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	295480	24.8	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	825445	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.647	9.640	0.007	94	288191	25.8	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.513				ND	
14 Vinyl chloride	62	1.598	1.598	0.000	99	196363	15.8	
15 Bromomethane	94		1.902				ND	
16 Chloroethane	64	2.000	1.999	0.001	67	17753	2.43	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.736				ND	
23 Acetone	43		2.784				ND	
25 Carbon disulfide	76		2.882				ND	
28 Methyl acetate	43		3.082				ND	
30 Methylene Chloride	84		3.174				ND	
32 Methyl tert-butyl ether	73		3.405				ND	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	80	2132	0.2716	
36 1,1-Dichloroethane	63	3.818	3.812	0.006	93	12956	0.7273	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	85	325645	35.7	
44 2-Butanone (MEK)	43		4.384				ND	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97	4.786	4.798	-0.012	1	2120	0.1719	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.938				ND	
55 Benzene	78	5.145	5.145	0.000	88	15152	0.4772	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95		5.753				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.893				ND	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	
73 Toluene	92	6.982	6.982	0.000	94	8713	0.4013	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.523				ND	
82 2-Hexanone	43		7.663				ND	
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91		8.521				ND	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	3005	0.1846	
91 o-Xylene	106		9.069				ND	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105		9.458				ND	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.885				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		0.1846	

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D

Injection Date: 08-Jan-2018 02:37:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: 480-129748-J-1

Lab Sample ID: 480-129748-1

Worklist Smp#: 27

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

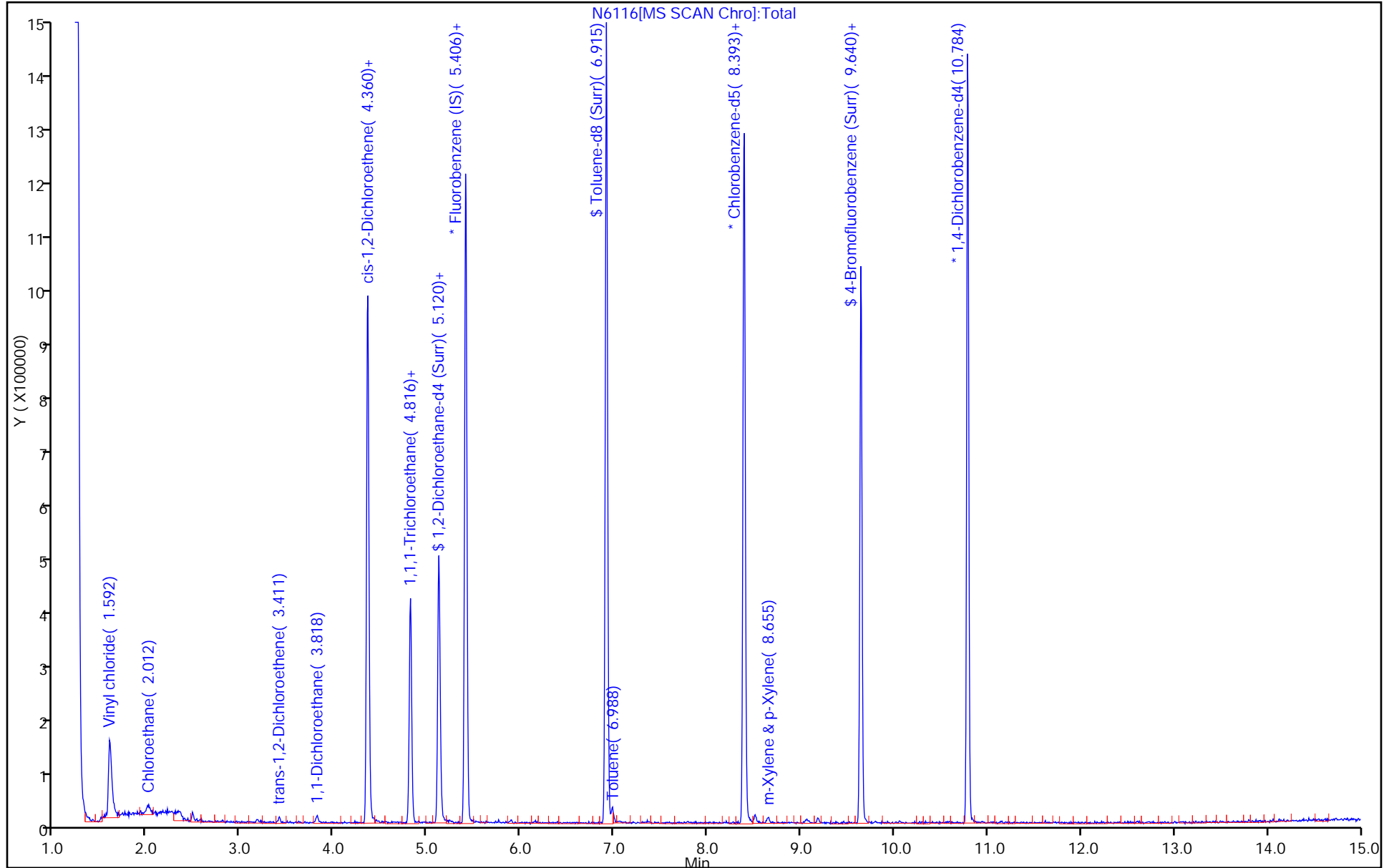
Dil. Factor: 100.0000

ALS Bottle#: 22

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D

Injection Date: 08-Jan-2018 02:37:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-1

Lab Sample ID: 480-129748-1

Client ID: LBA-SBW-15

Operator ID: AS

ALS Bottle#: 22

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

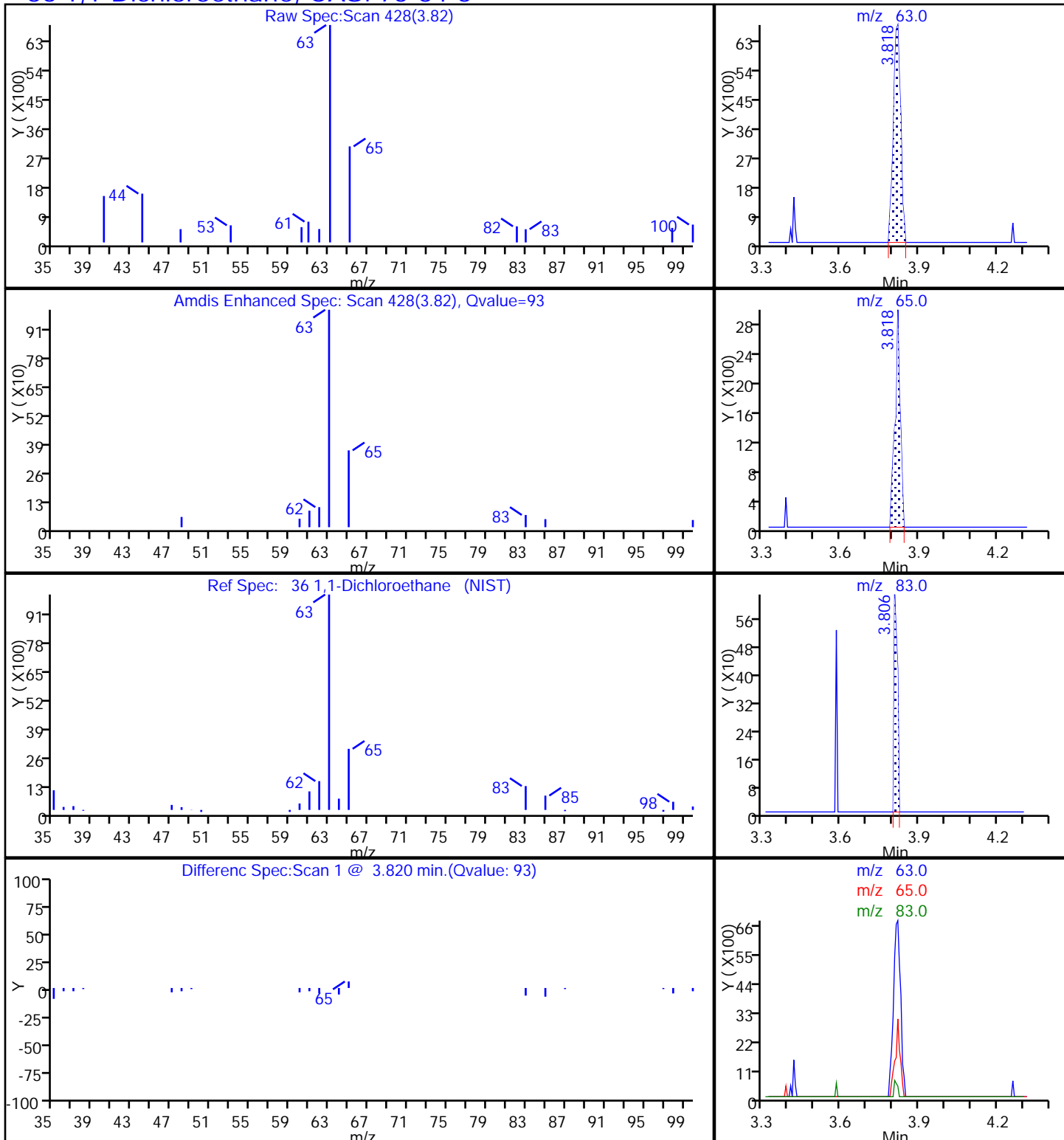
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D

Injection Date: 08-Jan-2018 02:37:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-1

Lab Sample ID: 480-129748-1

Client ID: LBA-SBW-15

Operator ID: AS

ALS Bottle#: 22

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

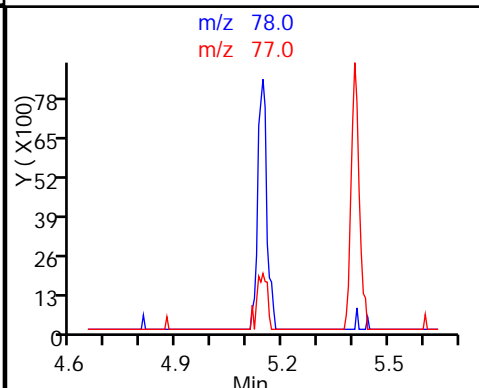
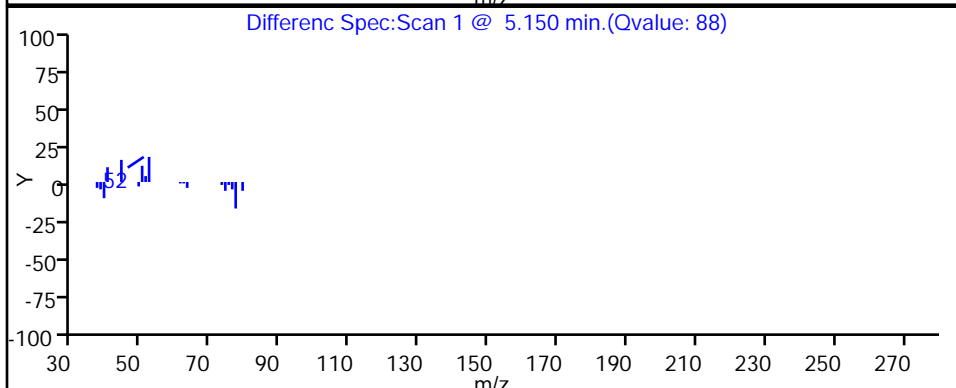
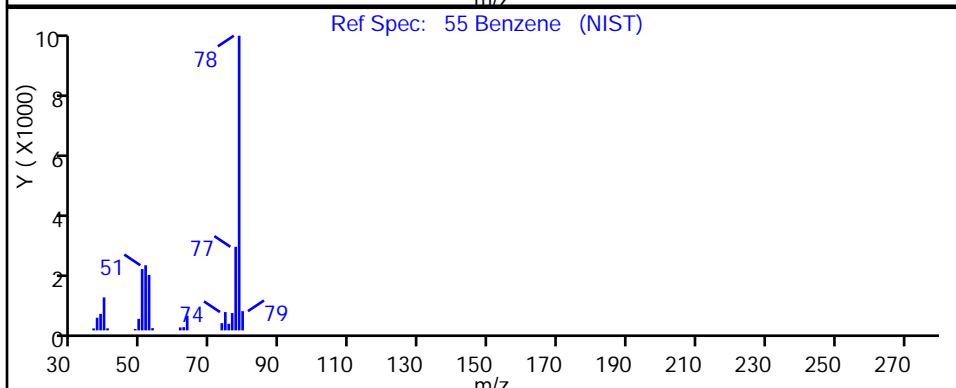
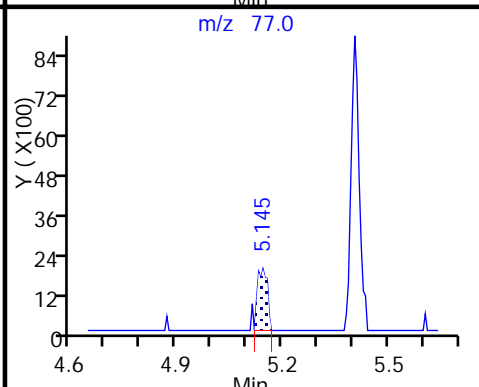
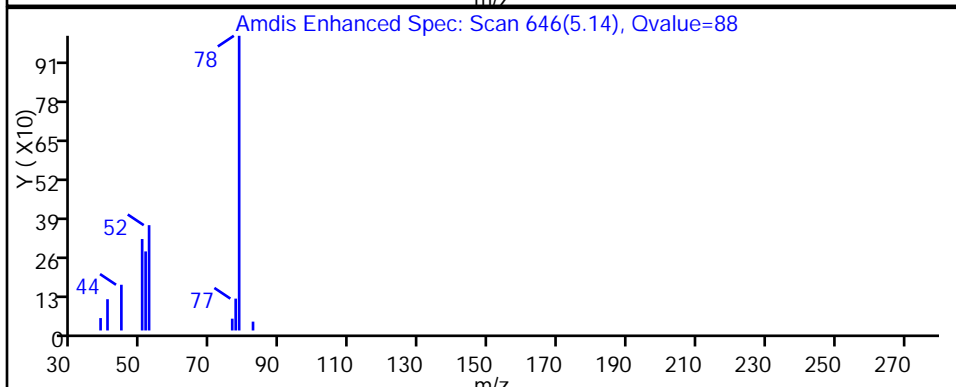
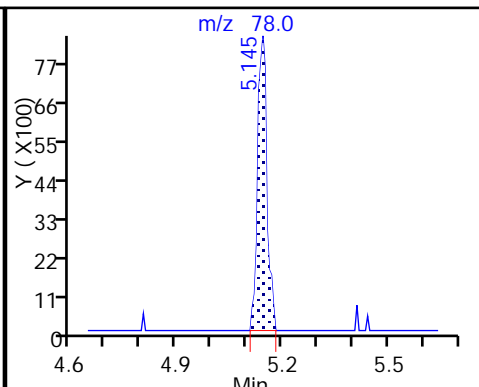
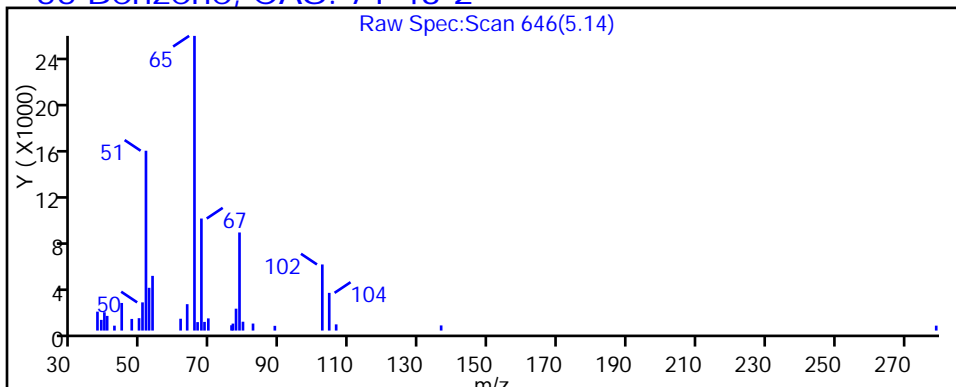
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D

Injection Date: 08-Jan-2018 02:37:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-1

Lab Sample ID: 480-129748-1

Client ID: LBA-SBW-15

Operator ID: AS

ALS Bottle#: 22

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

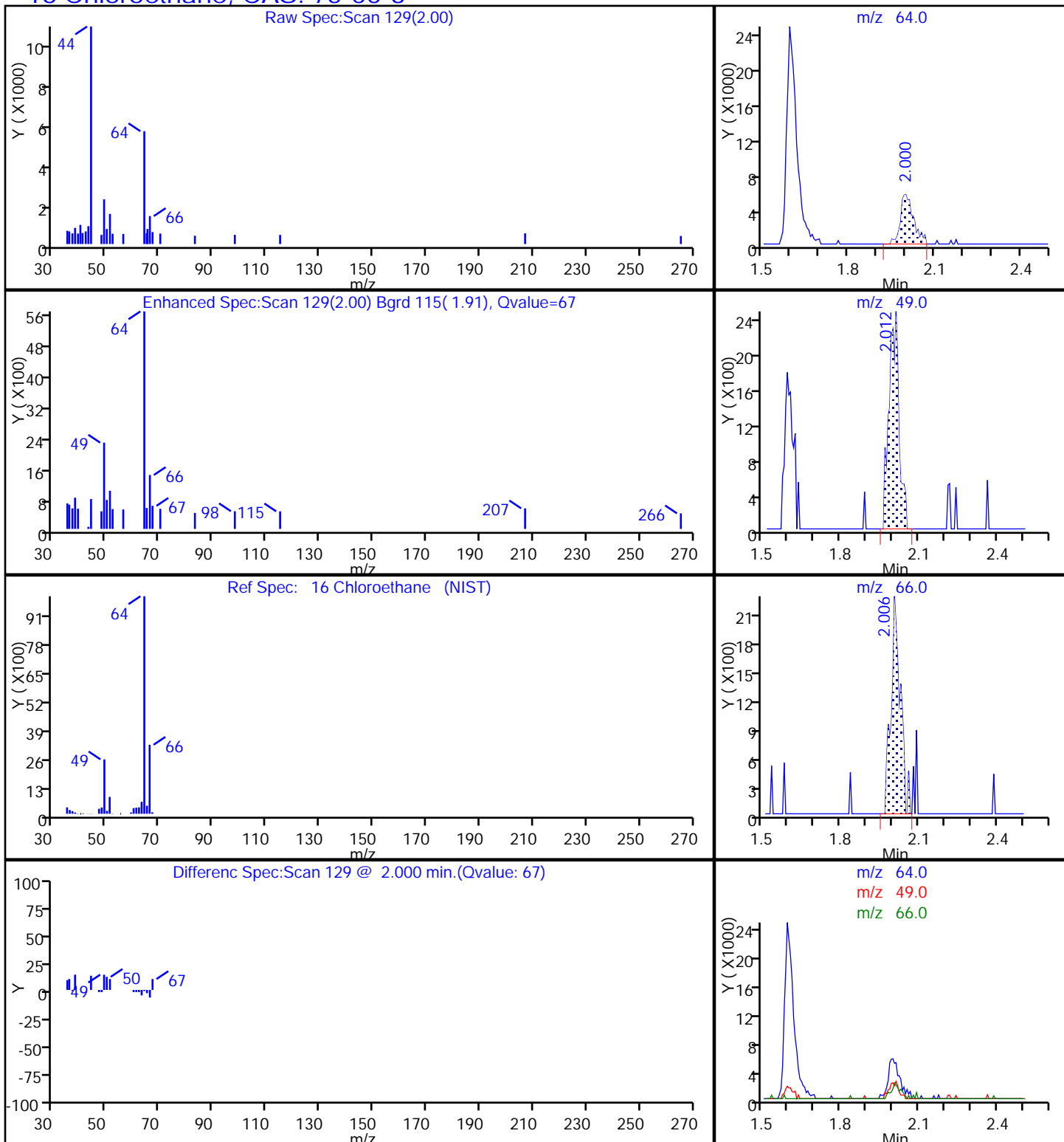
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D

Injection Date: 08-Jan-2018 02:37:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-1

Lab Sample ID: 480-129748-1

Client ID: LBA-SBW-15

Operator ID: AS

ALS Bottle#: 22

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

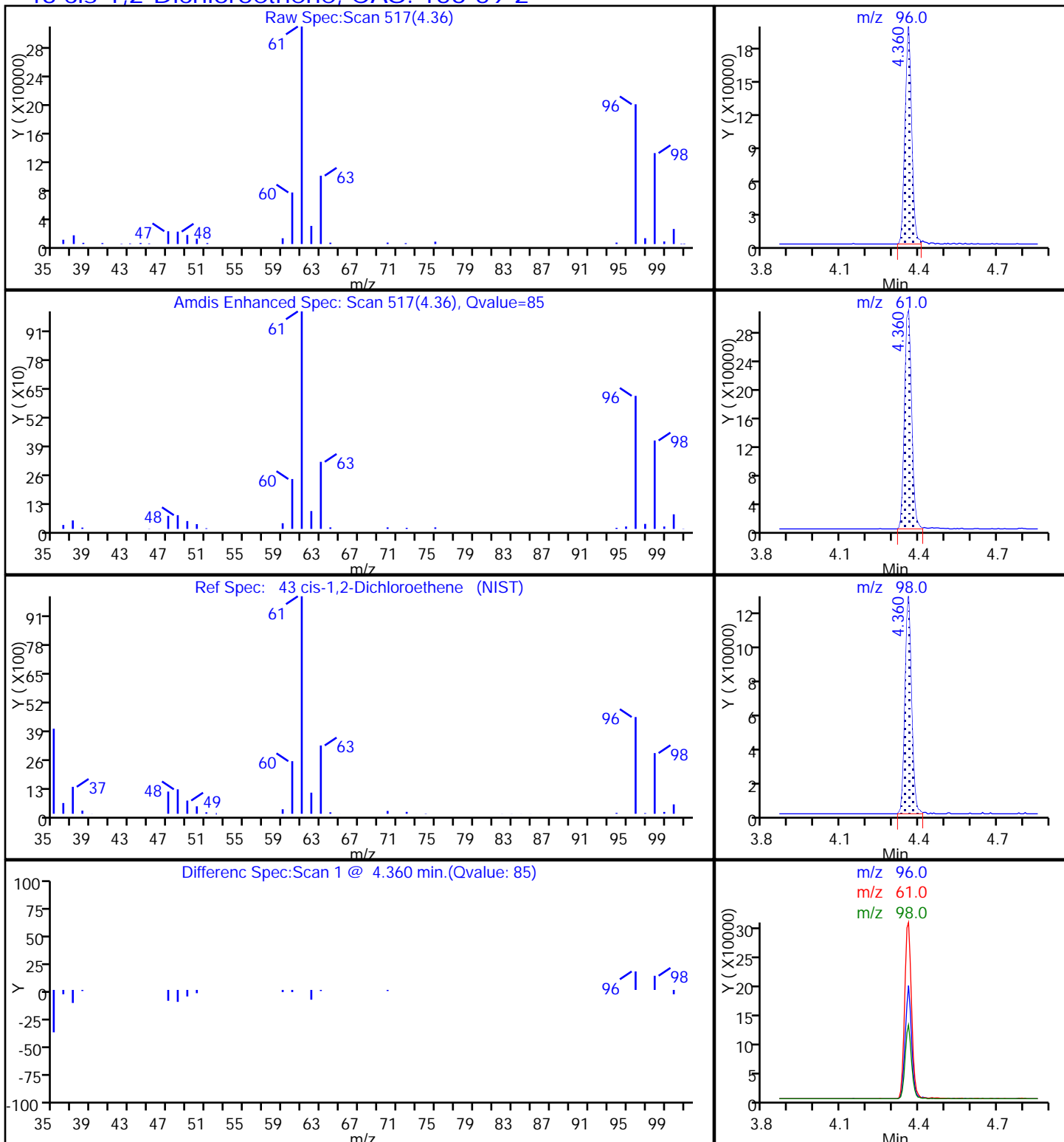
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6116.D

Injection Date: 08-Jan-2018 02:37:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-1

Lab Sample ID: 480-129748-1

Client ID: LBA-SBW-15

Operator ID: AS

ALS Bottle#: 22

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

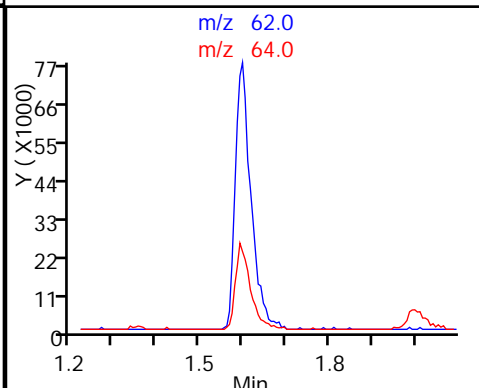
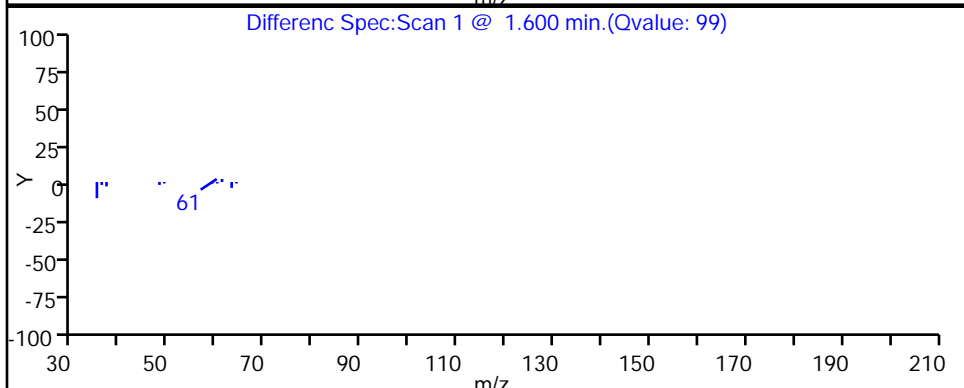
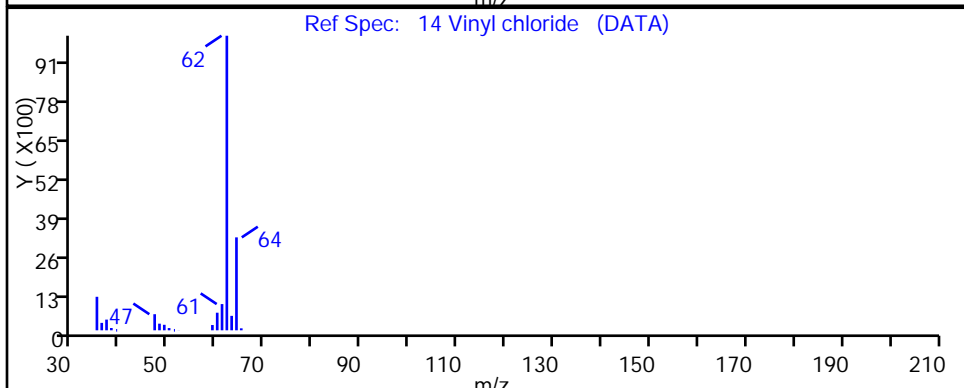
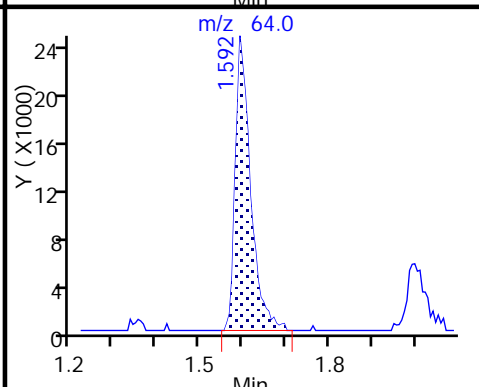
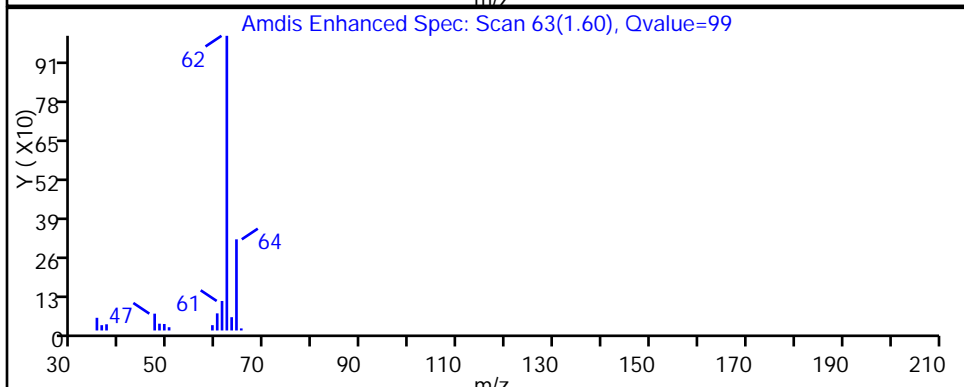
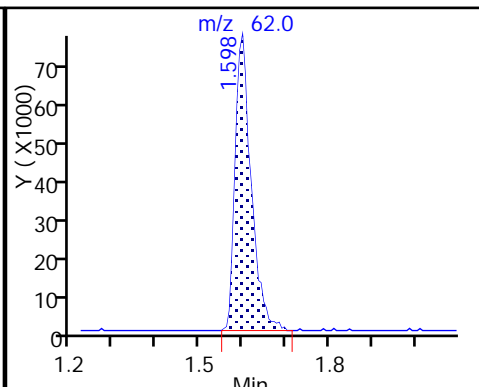
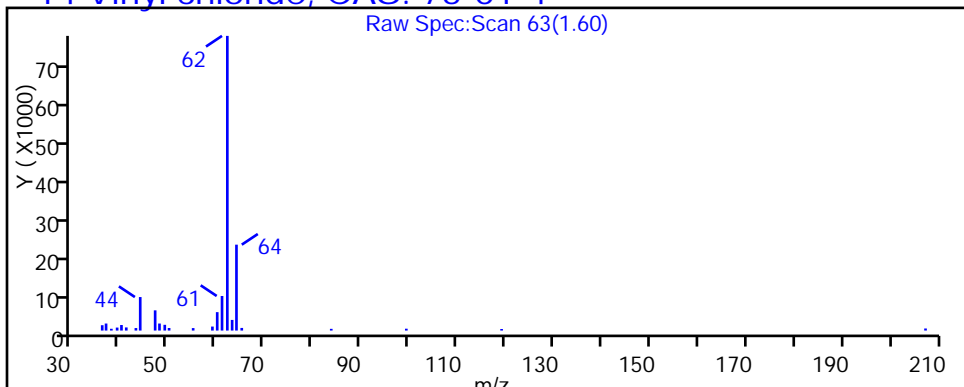
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-129748-2
 Matrix: Water Lab File ID: N6117.D
 Analysis Method: 8260C Date Collected: 01/02/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:04
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31
75-34-3	1,1-Dichloroethane	73	J	100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND	*	1000	300
71-43-2	Benzene	54	J	100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	230		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	3600		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-129748-2
 Matrix: Water Lab File ID: N6117.D
 Analysis Method: 8260C Date Collected: 01/02/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:04
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	ND		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	1600		100	90
1330-20-7	Xylenes, Total	ND		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-129748-2
 Matrix: Water Lab File ID: N6117.D
 Analysis Method: 8260C Date Collected: 01/02/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:04
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D
 Lims ID: 480-129748-B-2
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 08-Jan-2018 03:04:30 ALS Bottle#: 23 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-129748-B-2
 Misc. Info.: 480-0068396-028
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:48:36 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: scibilliam

Date: 08-Jan-2018 09:48:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	165613	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	87	656918	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	96	349427	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	223149	26.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	295452	25.1	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	799051	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.647	9.640	0.007	95	283562	25.5	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.513				ND	
14 Vinyl chloride	62	1.598	1.598	0.000	98	199326	16.3	
15 Bromomethane	94		1.902				ND	
16 Chloroethane	64	2.012	1.999	0.013	94	16635	2.31	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.736				ND	
23 Acetone	43		2.784				ND	
25 Carbon disulfide	76		2.882				ND	
28 Methyl acetate	43		3.082				ND	
30 Methylene Chloride	84		3.174				ND	
32 Methyl tert-butyl ether	73		3.405				ND	
33 trans-1,2-Dichloroethene	96		3.417				ND	
36 1,1-Dichloroethane	63	3.819	3.812	0.006	92	12854	0.7317	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	323587	36.0	
44 2-Butanone (MEK)	43		4.384				ND	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97		4.798				ND	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.938				ND	
55 Benzene	78	5.139	5.145	-0.006	39	16788	0.5361	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95		5.753				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.893				ND	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	
73 Toluene	92	6.982	6.982	0.000	98	8969	0.4150	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.523				ND	
82 2-Hexanone	43		7.663				ND	
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91		8.521				ND	
90 m-Xylene & p-Xylene	106		8.643				ND	
91 o-Xylene	106		9.069				ND	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105		9.458				ND	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.885				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D

Injection Date: 08-Jan-2018 03:04:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: 480-129748-B-2

Lab Sample ID: 480-129748-2

Worklist Smp#: 28

Client ID: DUPE

Purge Vol: 5.000 mL

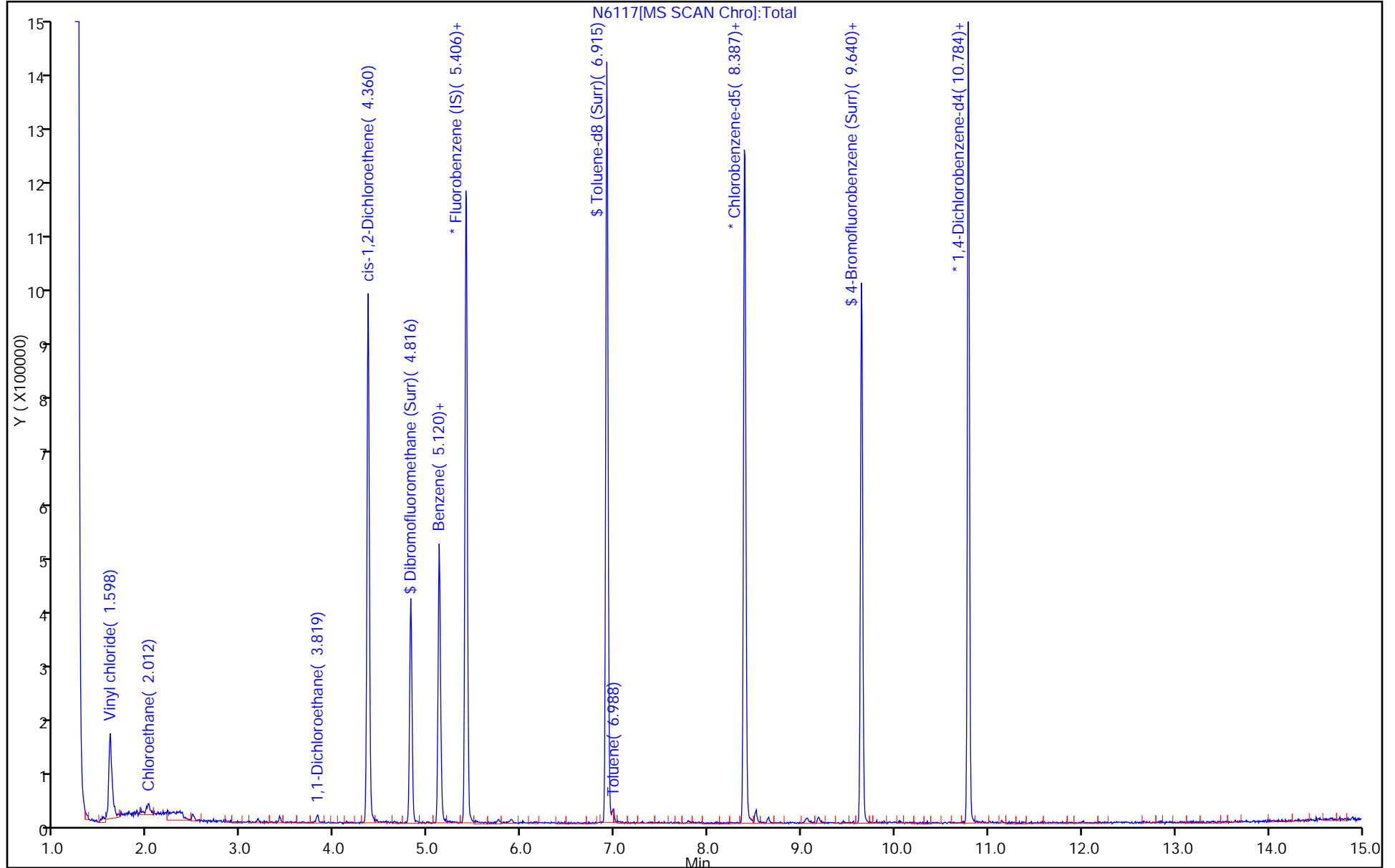
Dil. Factor: 100.0000

ALS Bottle#: 23

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D

Injection Date: 08-Jan-2018 03:04:30

Instrument ID: HP5973N

Lims ID: 480-129748-B-2

Lab Sample ID: 480-129748-2

Client ID: DUPE

Operator ID: AS

ALS Bottle#: 23

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

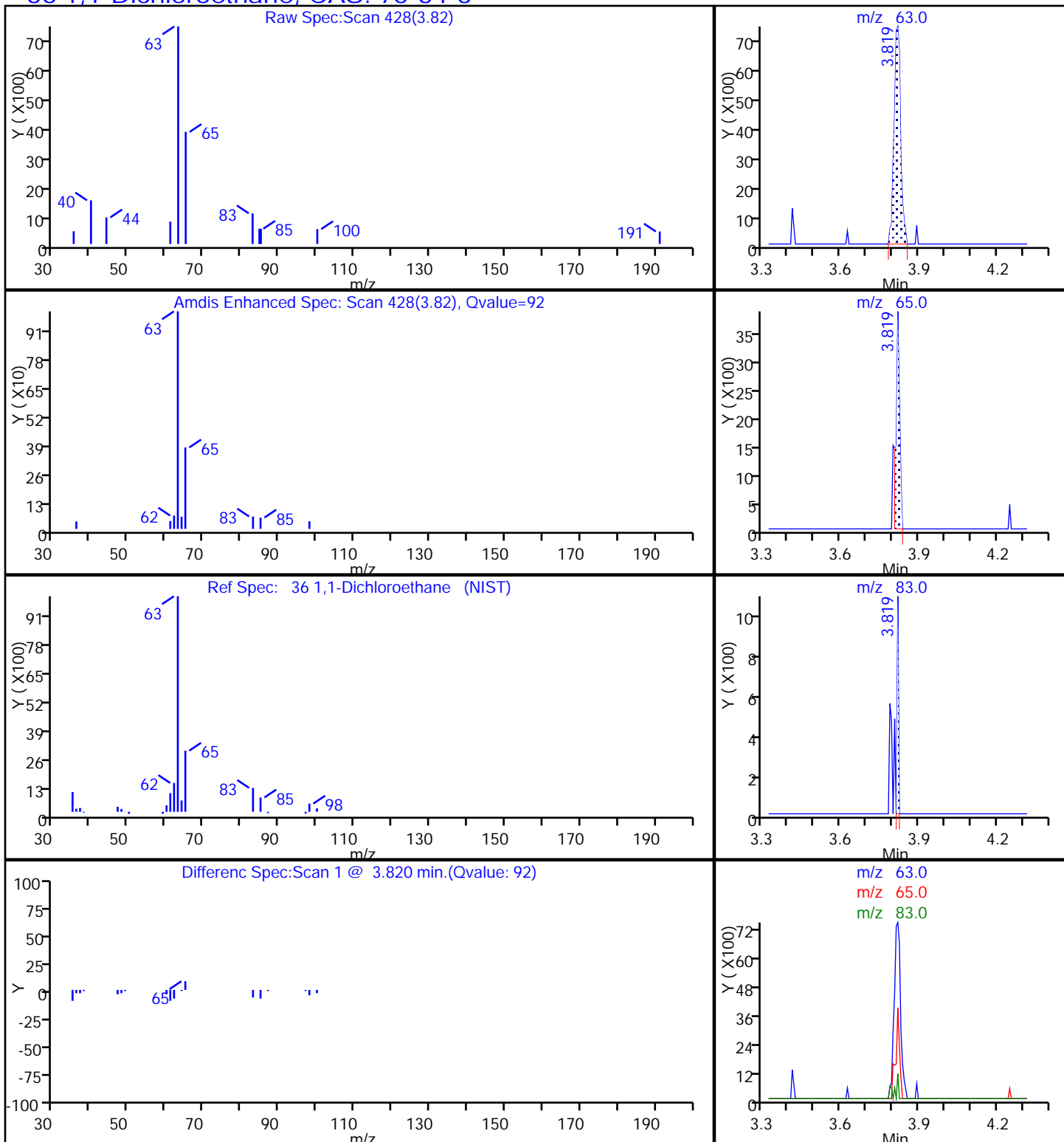
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D

Injection Date: 08-Jan-2018 03:04:30

Instrument ID: HP5973N

Lims ID: 480-129748-B-2

Lab Sample ID: 480-129748-2

Client ID: DUPE

Operator ID: AS

ALS Bottle#: 23

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

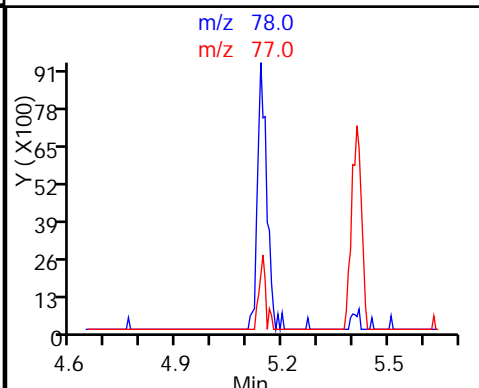
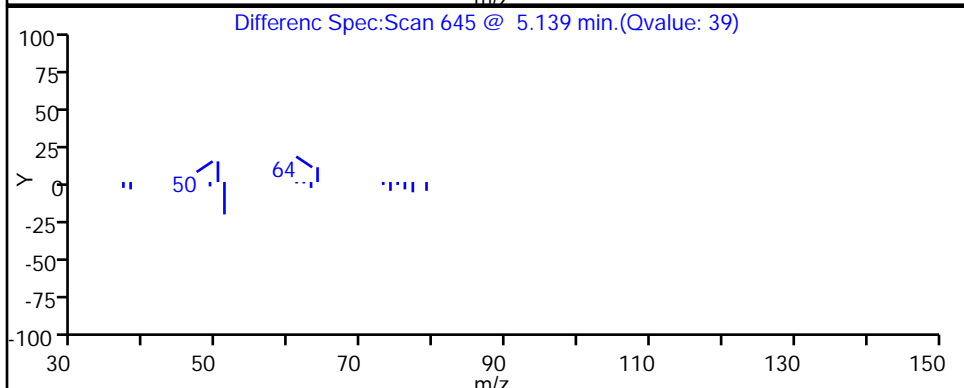
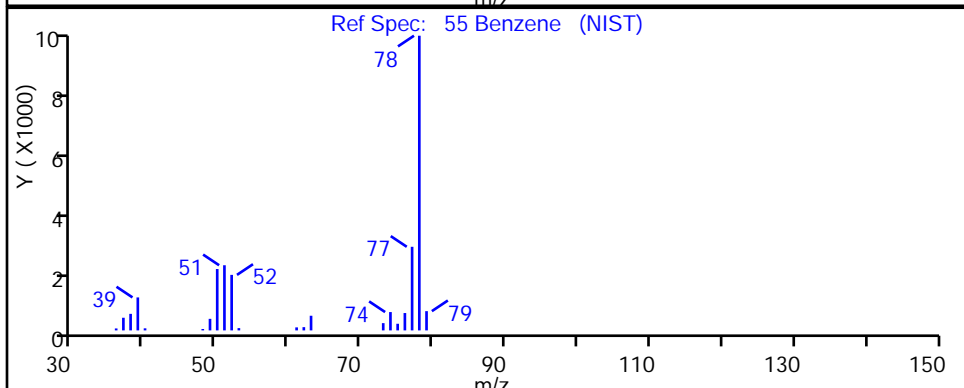
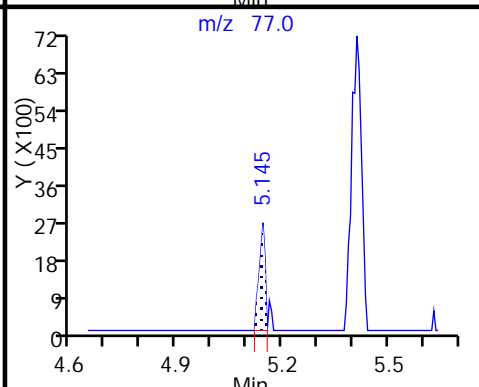
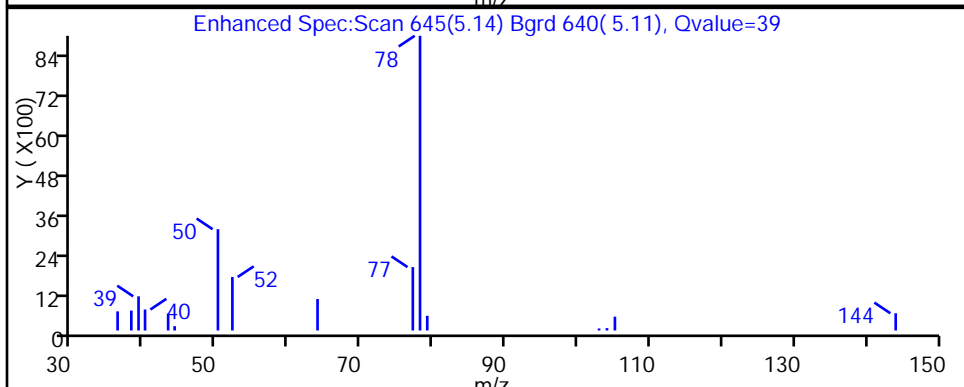
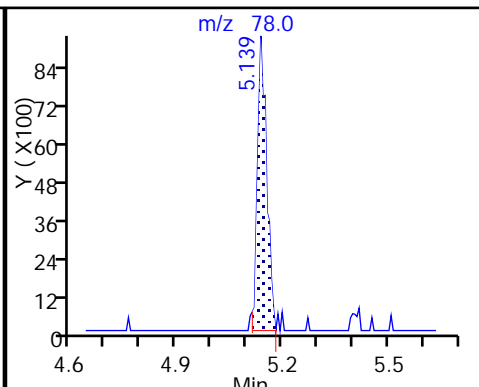
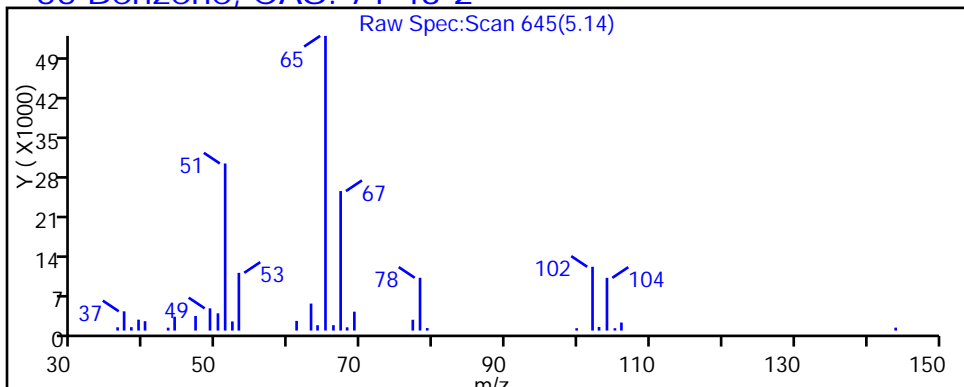
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D

Injection Date: 08-Jan-2018 03:04:30

Instrument ID: HP5973N

Lims ID: 480-129748-B-2

Lab Sample ID: 480-129748-2

Client ID: DUPE

Operator ID: AS

ALS Bottle#: 23

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

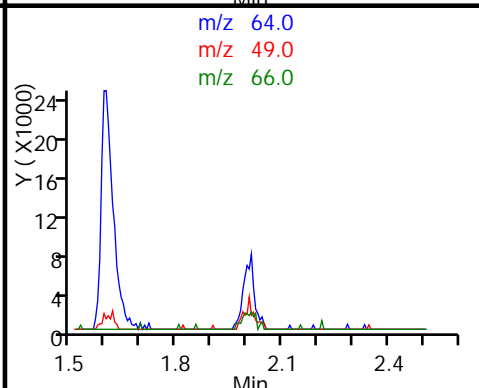
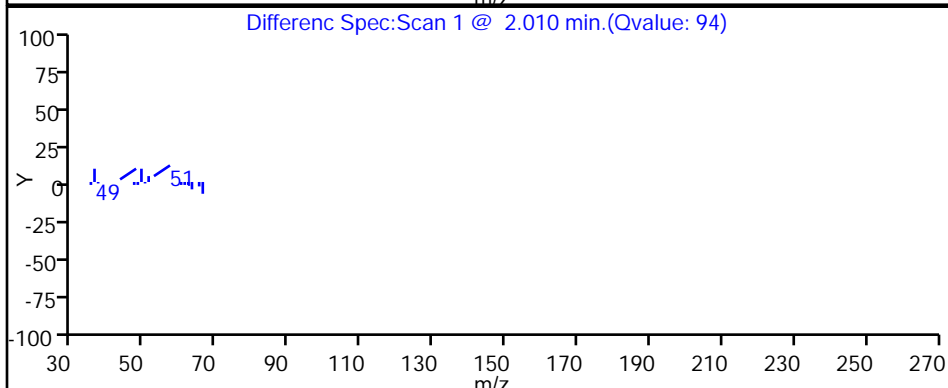
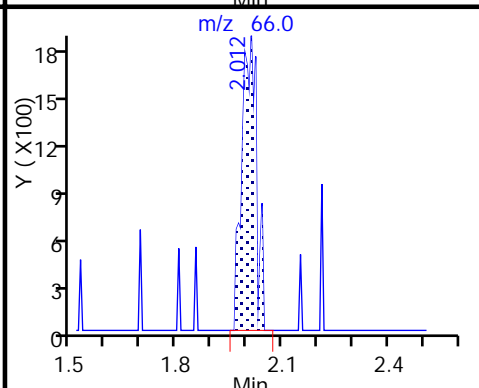
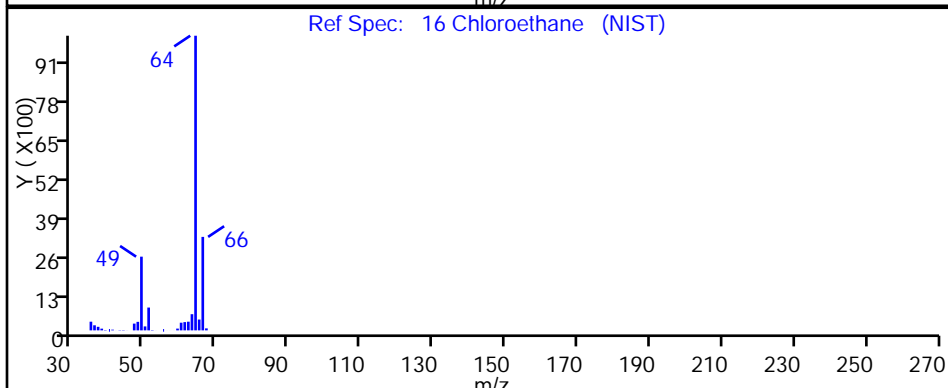
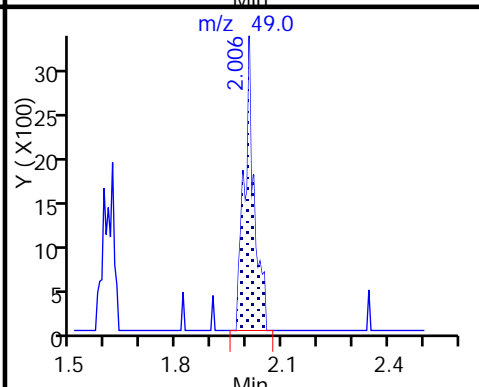
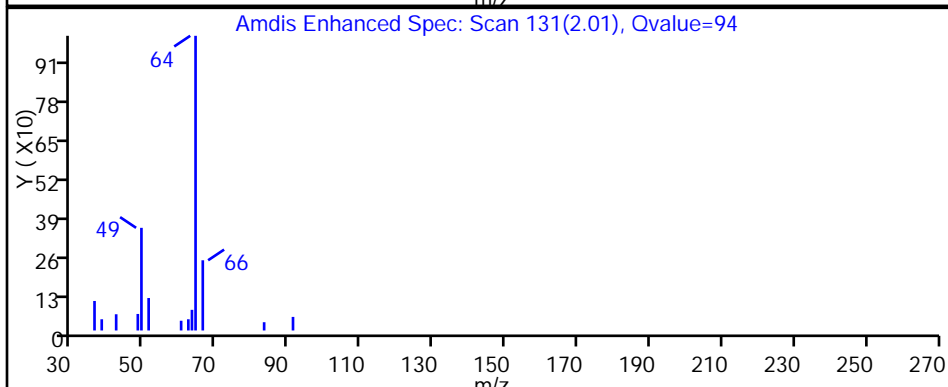
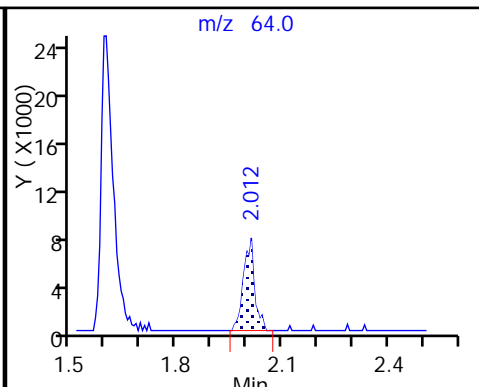
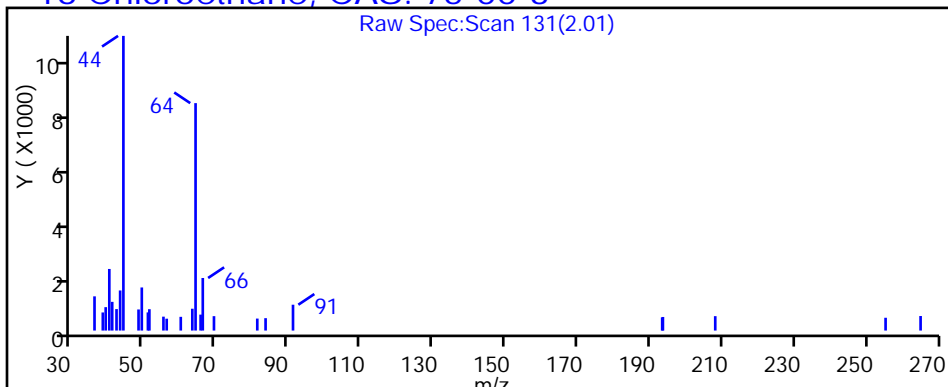
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D

Injection Date: 08-Jan-2018 03:04:30

Instrument ID: HP5973N

Lims ID: 480-129748-B-2

Lab Sample ID: 480-129748-2

Client ID: DUPE

Operator ID: AS

ALS Bottle#: 23

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

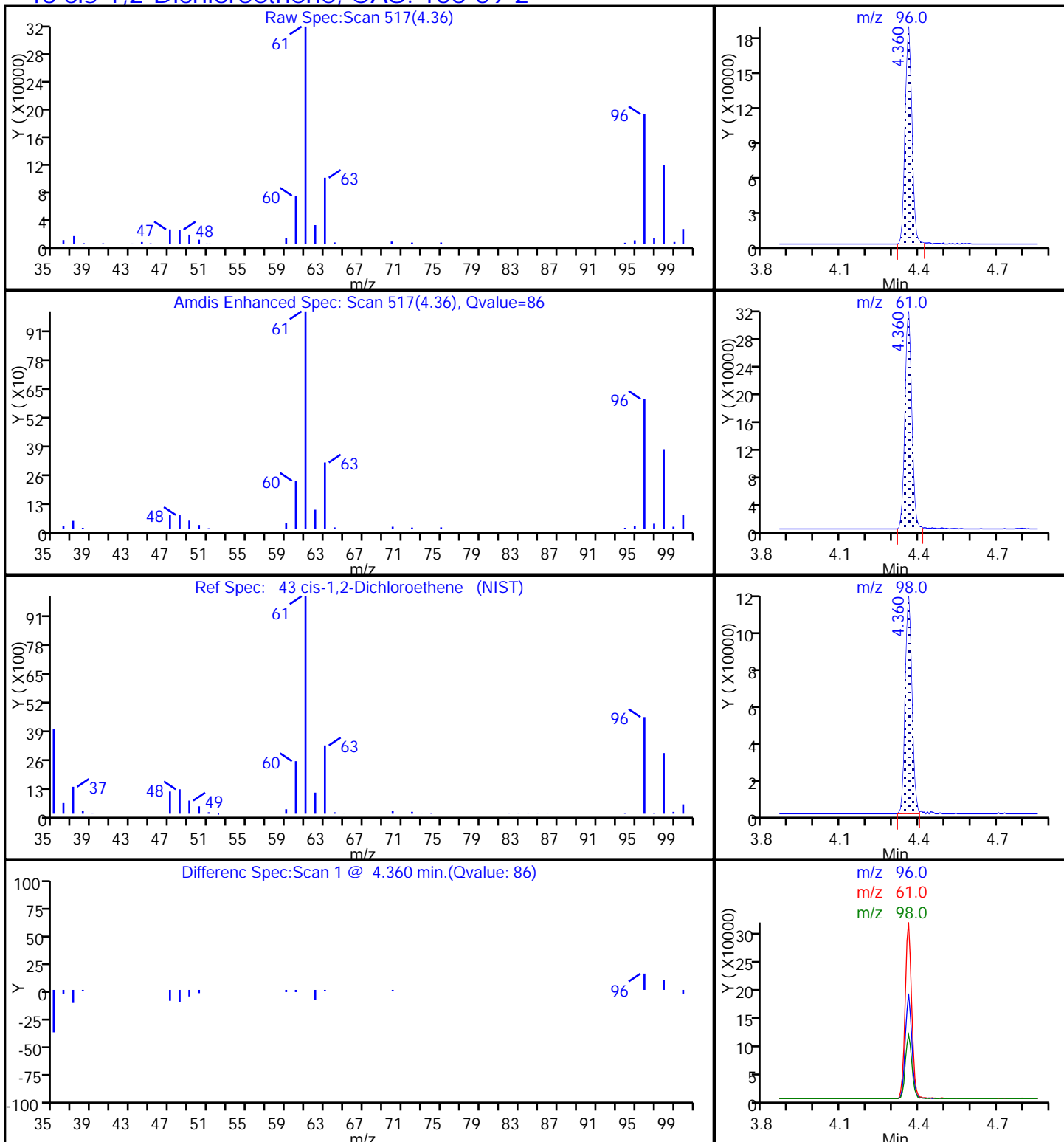
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6117.D

Injection Date: 08-Jan-2018 03:04:30

Instrument ID: HP5973N

Lims ID: 480-129748-B-2

Lab Sample ID: 480-129748-2

Client ID: DUPE

Operator ID: AS

ALS Bottle#: 23

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

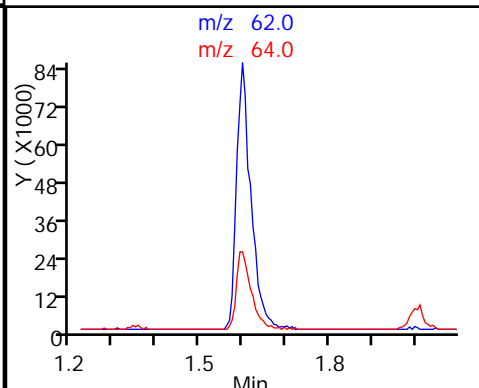
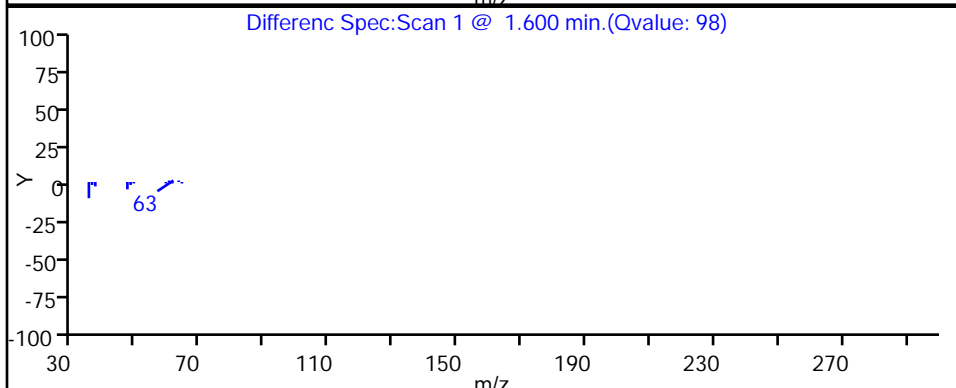
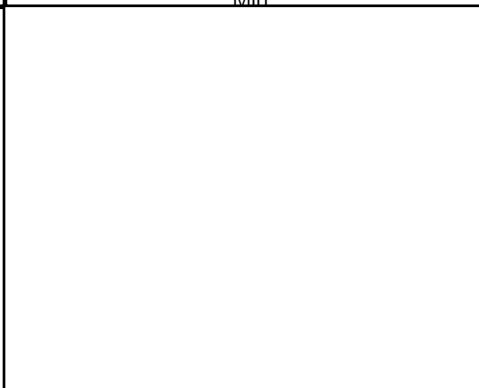
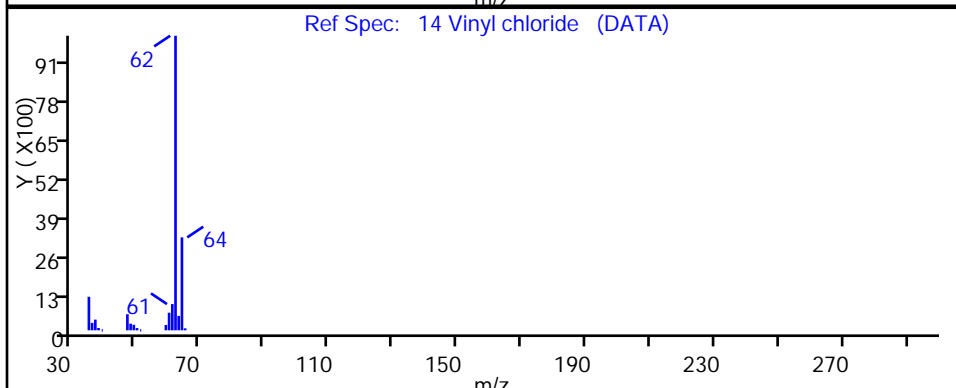
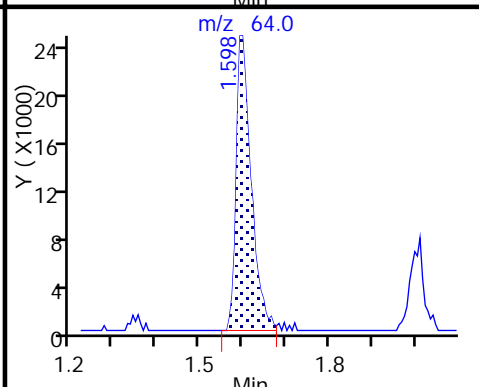
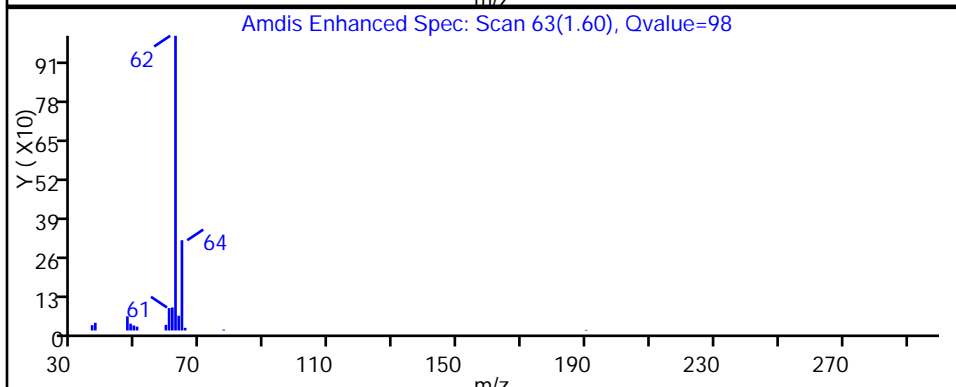
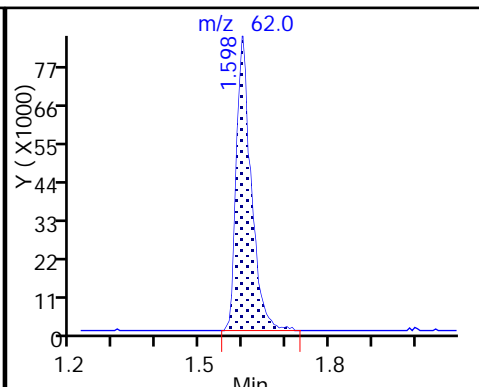
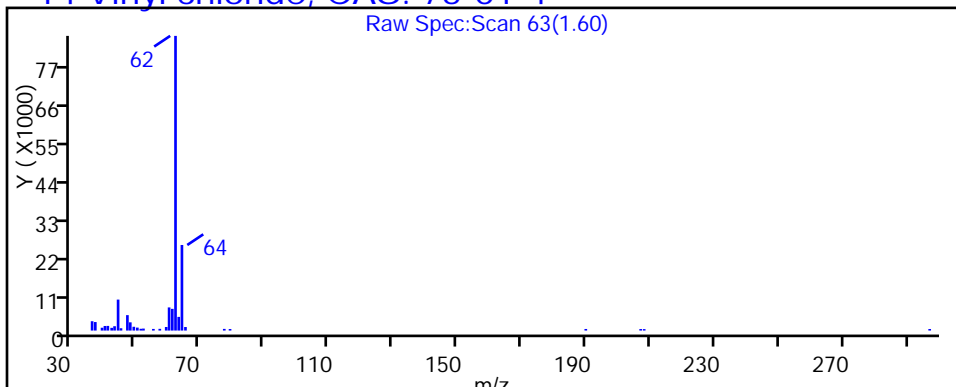
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-129748-3
 Matrix: Water Lab File ID: N6118.D
 Analysis Method: 8260C Date Collected: 01/02/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:31
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20		10	3.1
75-34-3	1,1-Dichloroethane	53		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND	*	100	30
71-43-2	Benzene	15		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	9.4	J	10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	710		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	7.8	J	10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	22		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-129748-3
 Matrix: Water Lab File ID: N6118.D
 Analysis Method: 8260C Date Collected: 01/02/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:31
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	20		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	11		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	5.3	J	10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	440		10	9.0
1330-20-7	Xylenes, Total	260		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-129748-3
 Matrix: Water Lab File ID: N6118.D
 Analysis Method: 8260C Date Collected: 01/02/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:31
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D
 Lims ID: 480-129748-J-3
 Client ID: LBA-SBW-16
 Sample Type: Client
 Inject. Date: 08-Jan-2018 03:31:30 ALS Bottle#: 24 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-129748-J-3
 Misc. Info.: 480-0068396-029
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:50:06 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: scibiliam

Date: 08-Jan-2018 09:50:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	163827	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	683234	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	96	359933	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	216993	25.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	301492	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	823434	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.647	9.640	0.007	94	292756	25.3	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.513				ND	
14 Vinyl chloride	62	1.598	1.598	0.000	99	537232	44.4	
15 Bromomethane	94		1.902				ND	
16 Chloroethane	64	1.993	1.999	-0.006	61	6710	0.9429	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.736	-0.025	37	11999	1.97	
23 Acetone	43	2.790	2.802	0.006	70	9943	2.70	
25 Carbon disulfide	76		2.882				ND	
28 Methyl acetate	43		3.082				ND	
30 Methylene Chloride	84		3.174				ND	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	93	52619	1.98	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	38	3831	0.5002	
36 1,1-Dichloroethane	63	3.819	3.812	0.007	97	91315	5.25	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	91	635579	71.4	
44 2-Butanone (MEK)	43		4.384				ND	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97	4.798	4.798	0.000	96	25533	2.12	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.938				ND	
55 Benzene	78	5.145	5.145	0.000	89	47666	1.54	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95	5.765	5.765	0.012	54	4322	0.5260	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.893				ND	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	
73 Toluene	92	6.982	6.982	0.000	97	25766	1.15	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.523				ND	
82 2-Hexanone	43		7.663				ND	
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91	8.527	8.521	0.006	97	33317	0.7804	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	425894	25.3	
91 o-Xylene	106	9.069	9.069	0.000	96	12754	0.7562	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105	9.458	9.458	0.000	97	92803	2.19	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.885				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		26.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Worklist Smp#: 29

Client ID: LBA-SBW-16

Purge Vol: 5.000 mL

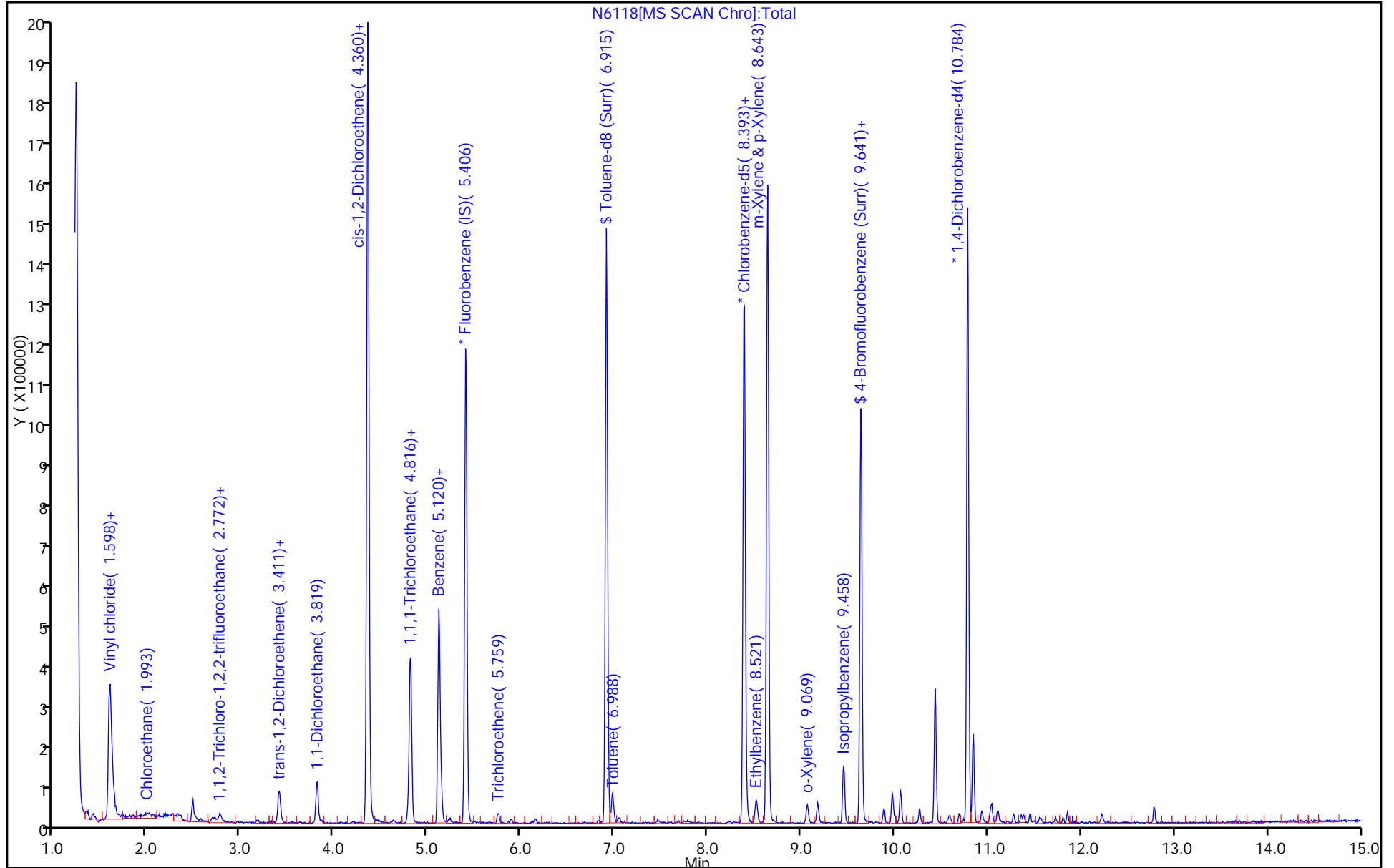
Dil. Factor: 10.0000

ALS Bottle#: 24

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

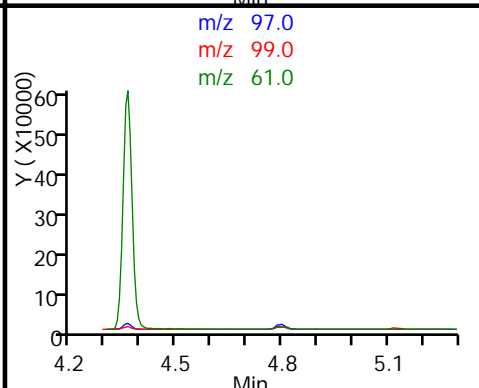
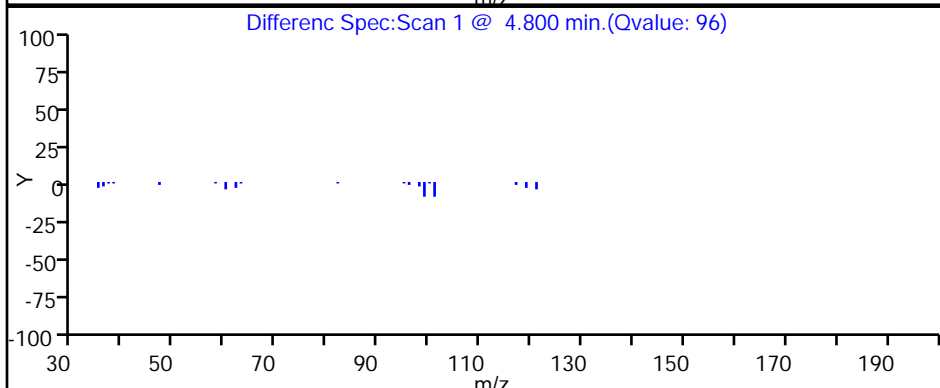
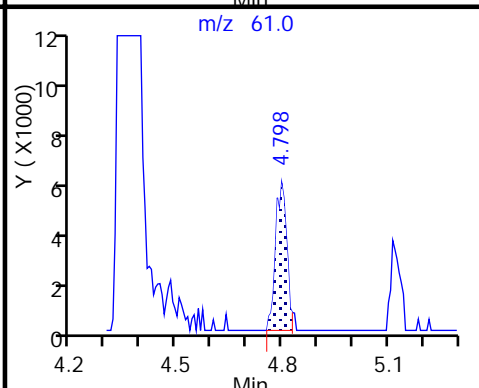
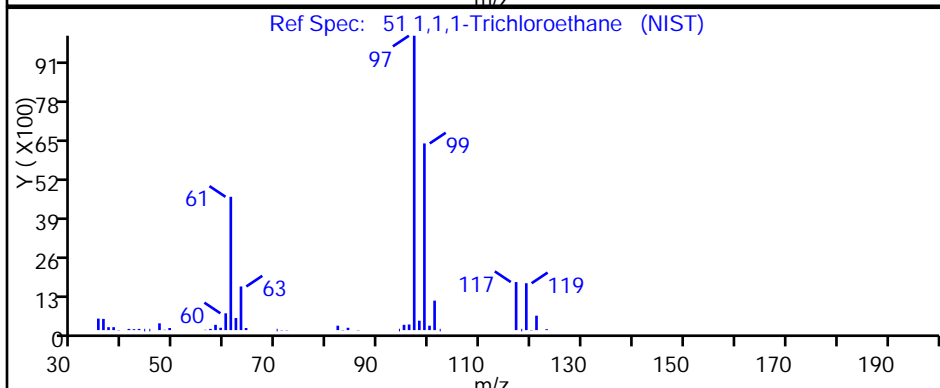
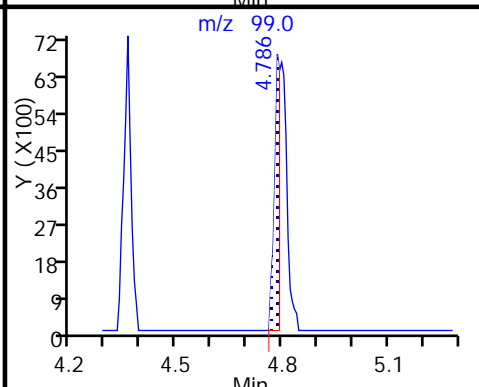
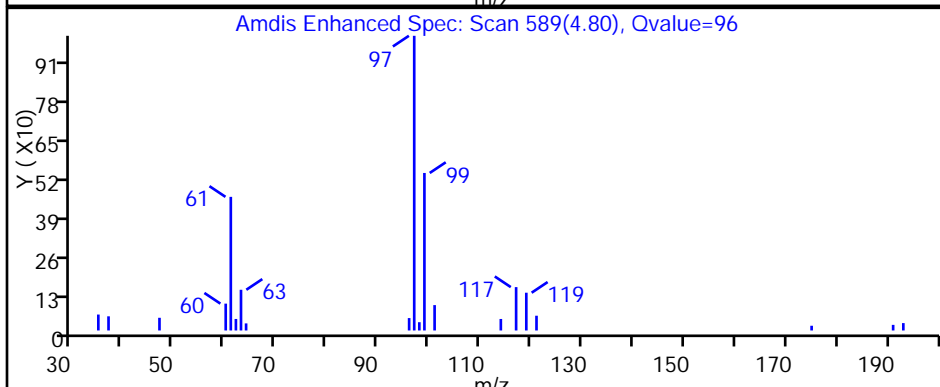
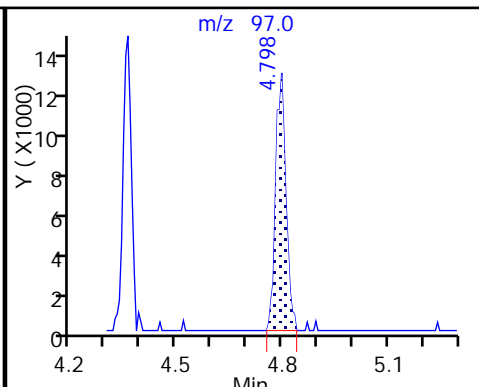
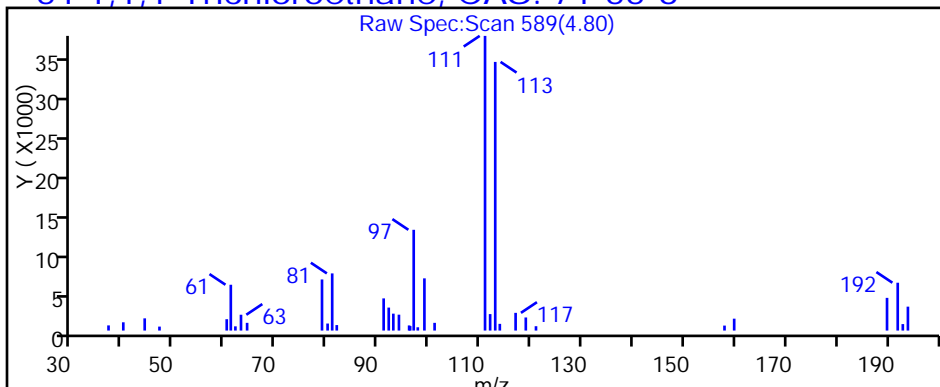
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

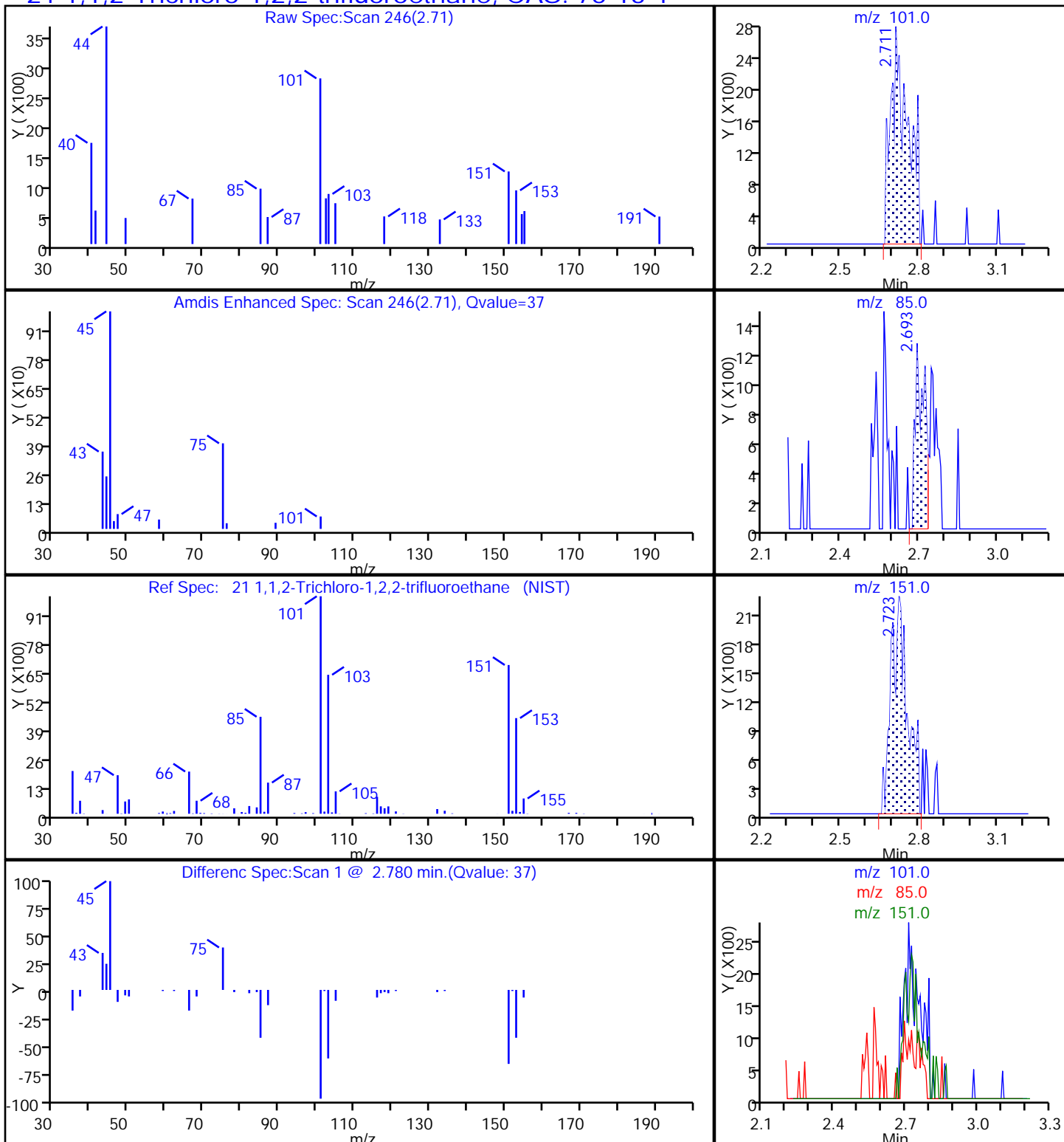
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

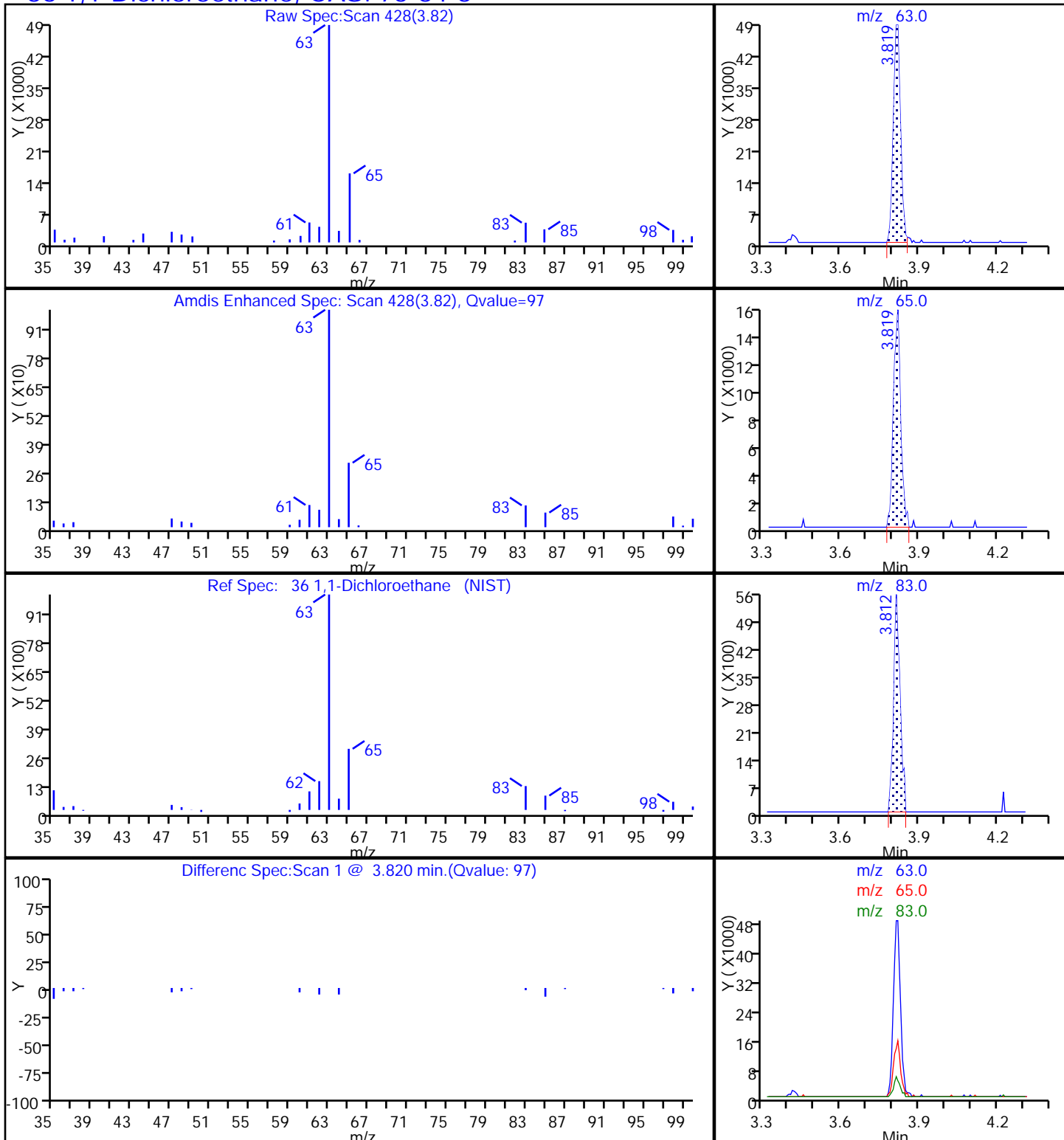
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

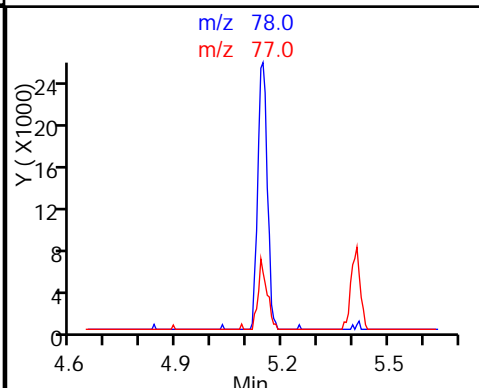
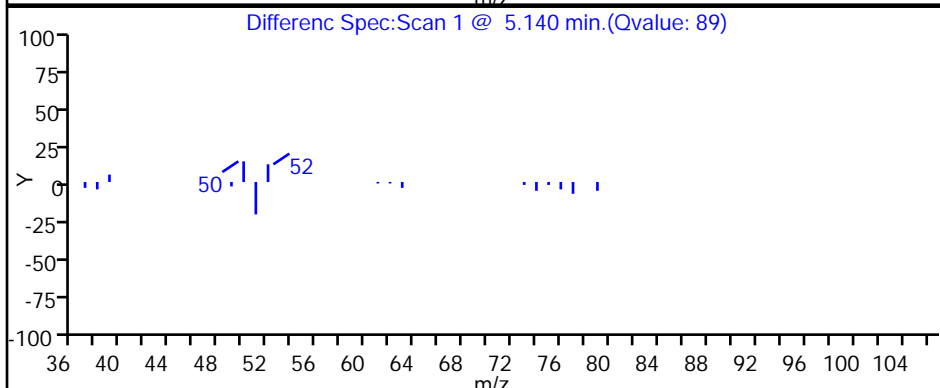
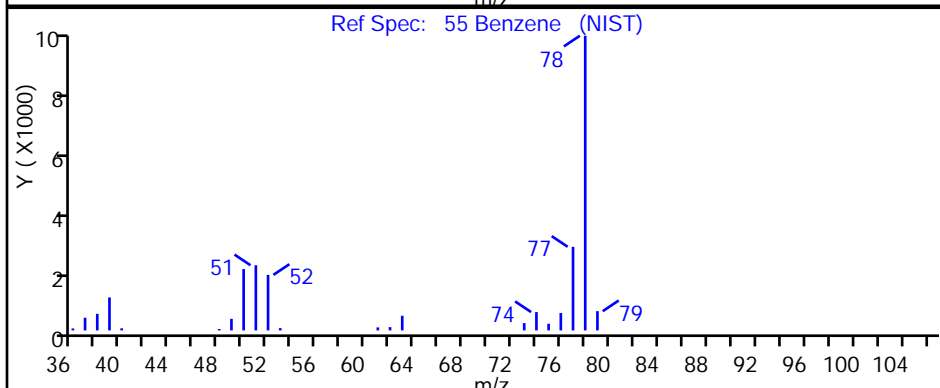
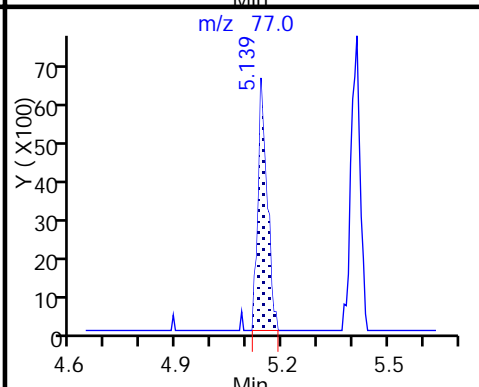
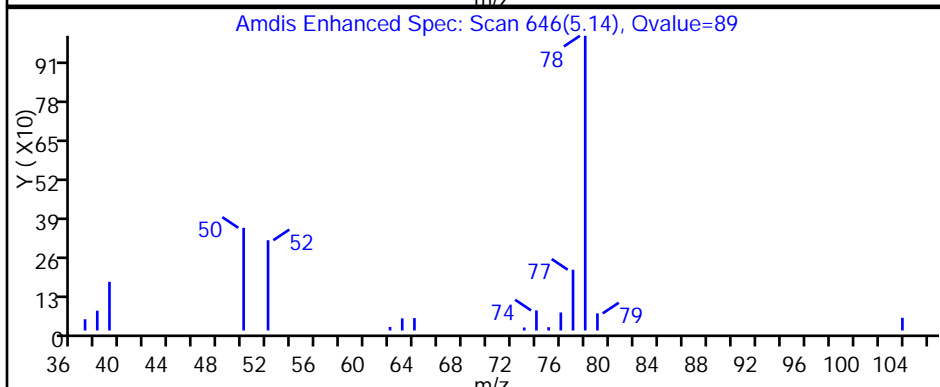
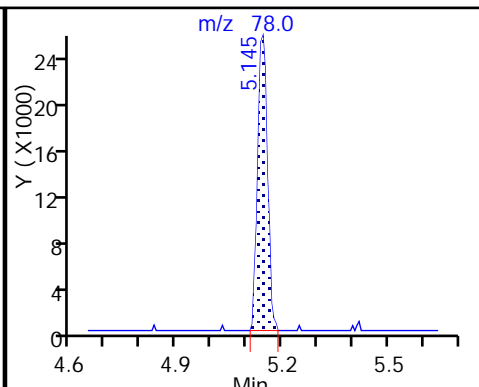
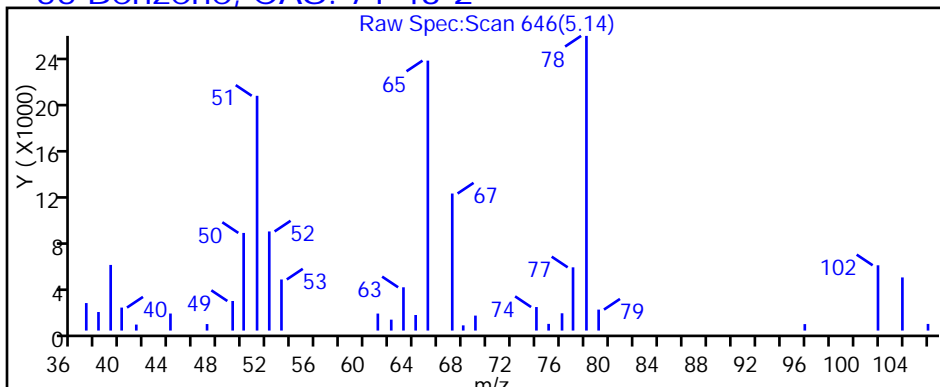
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

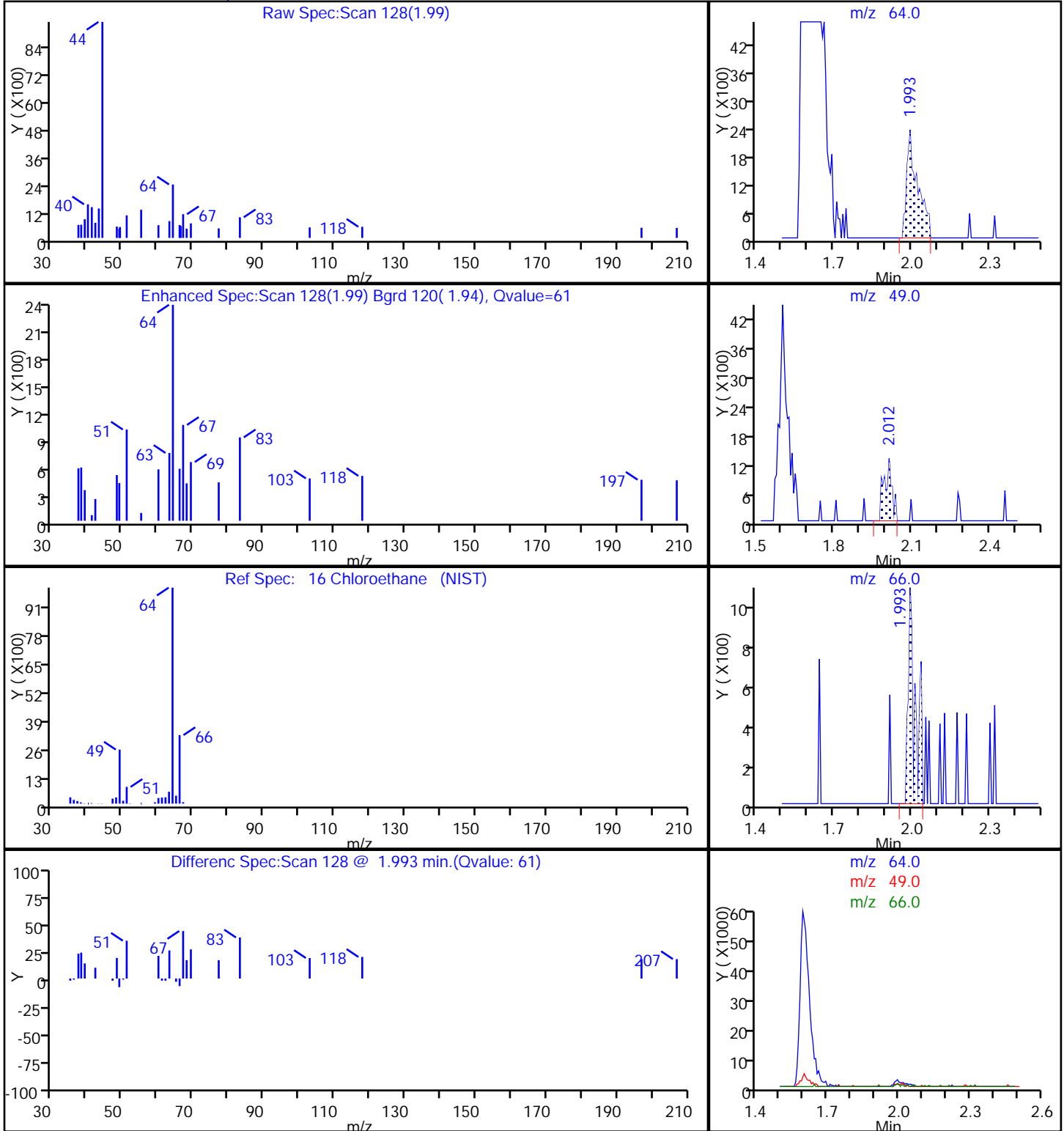
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

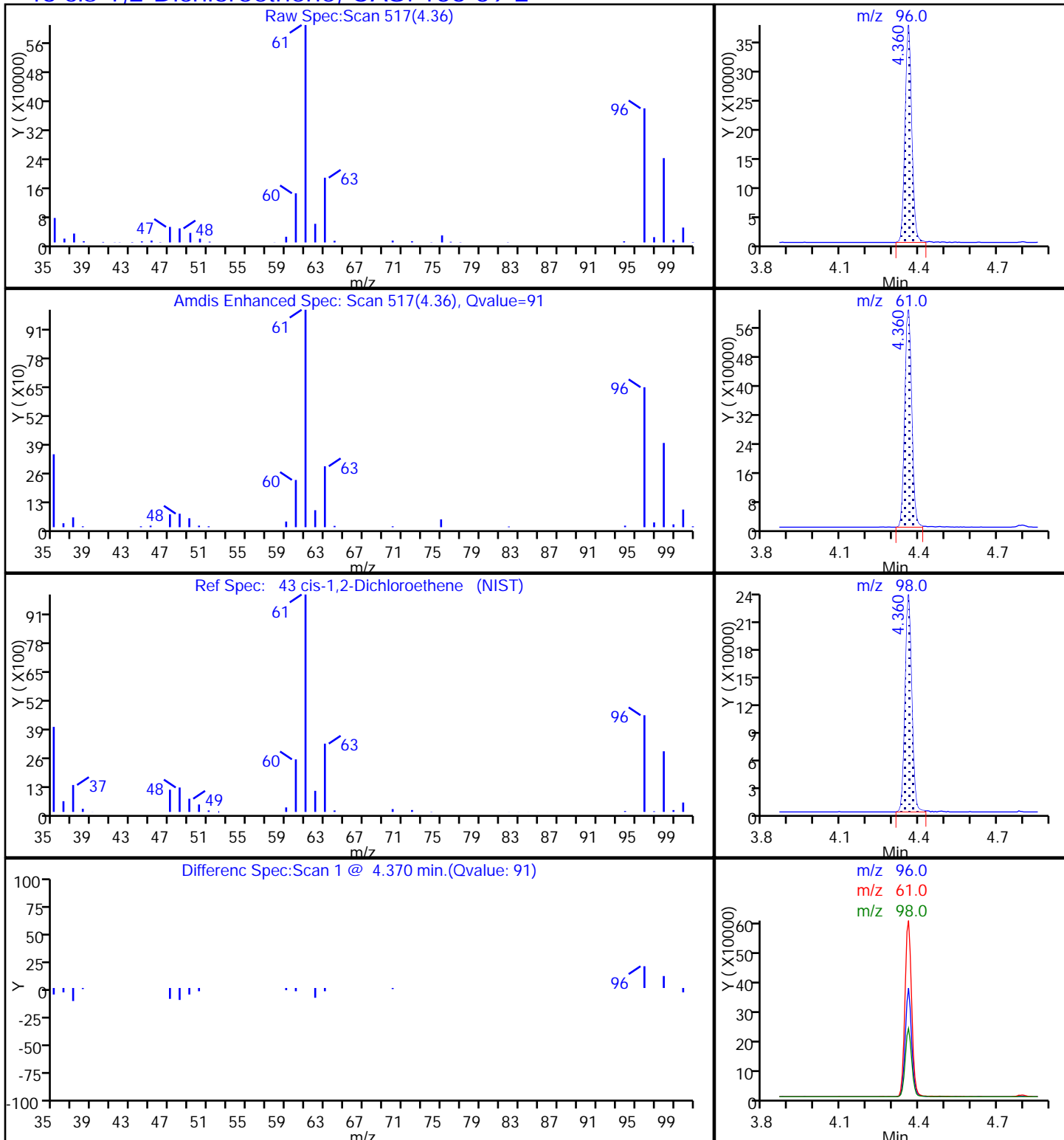
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

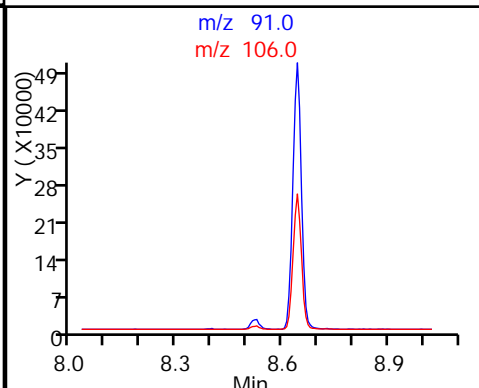
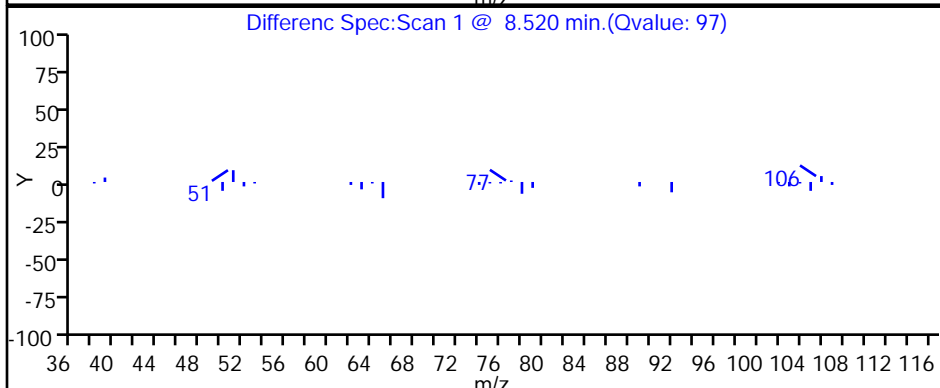
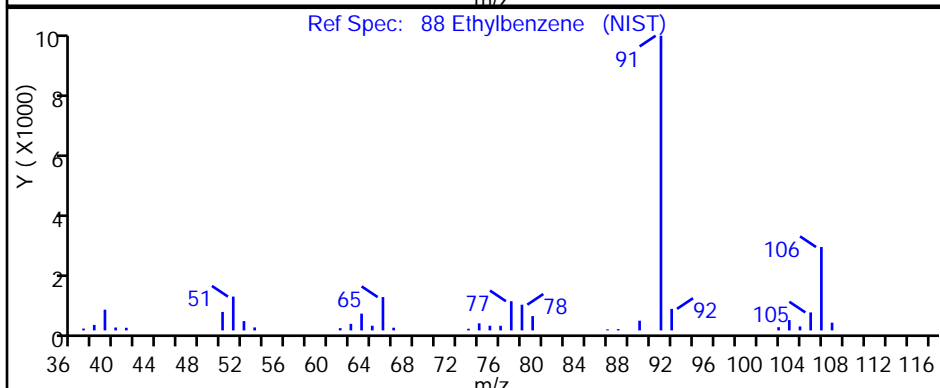
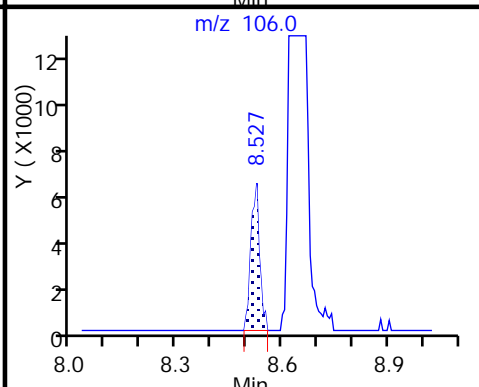
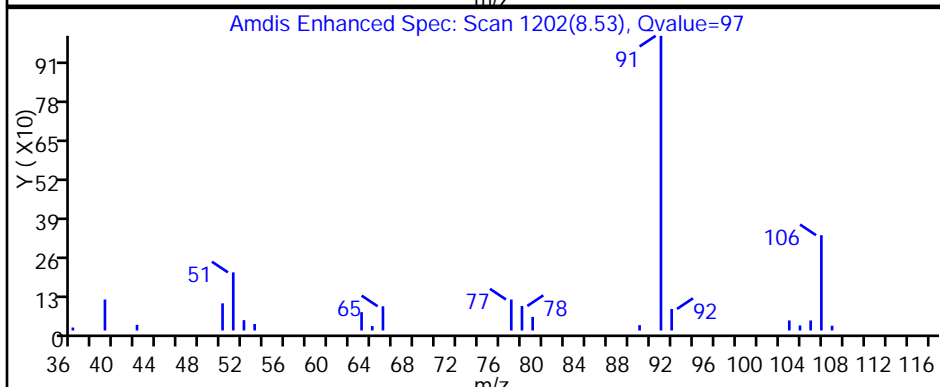
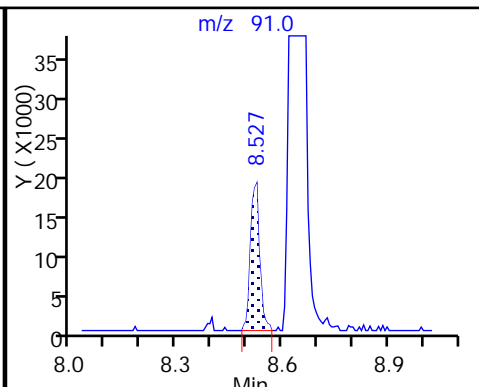
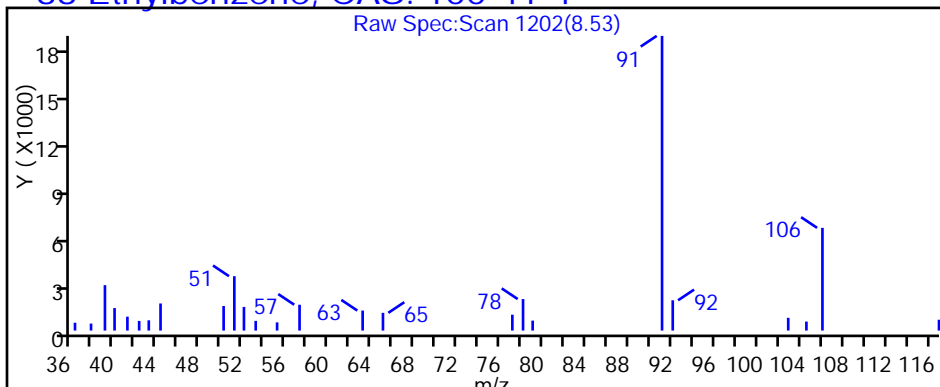
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

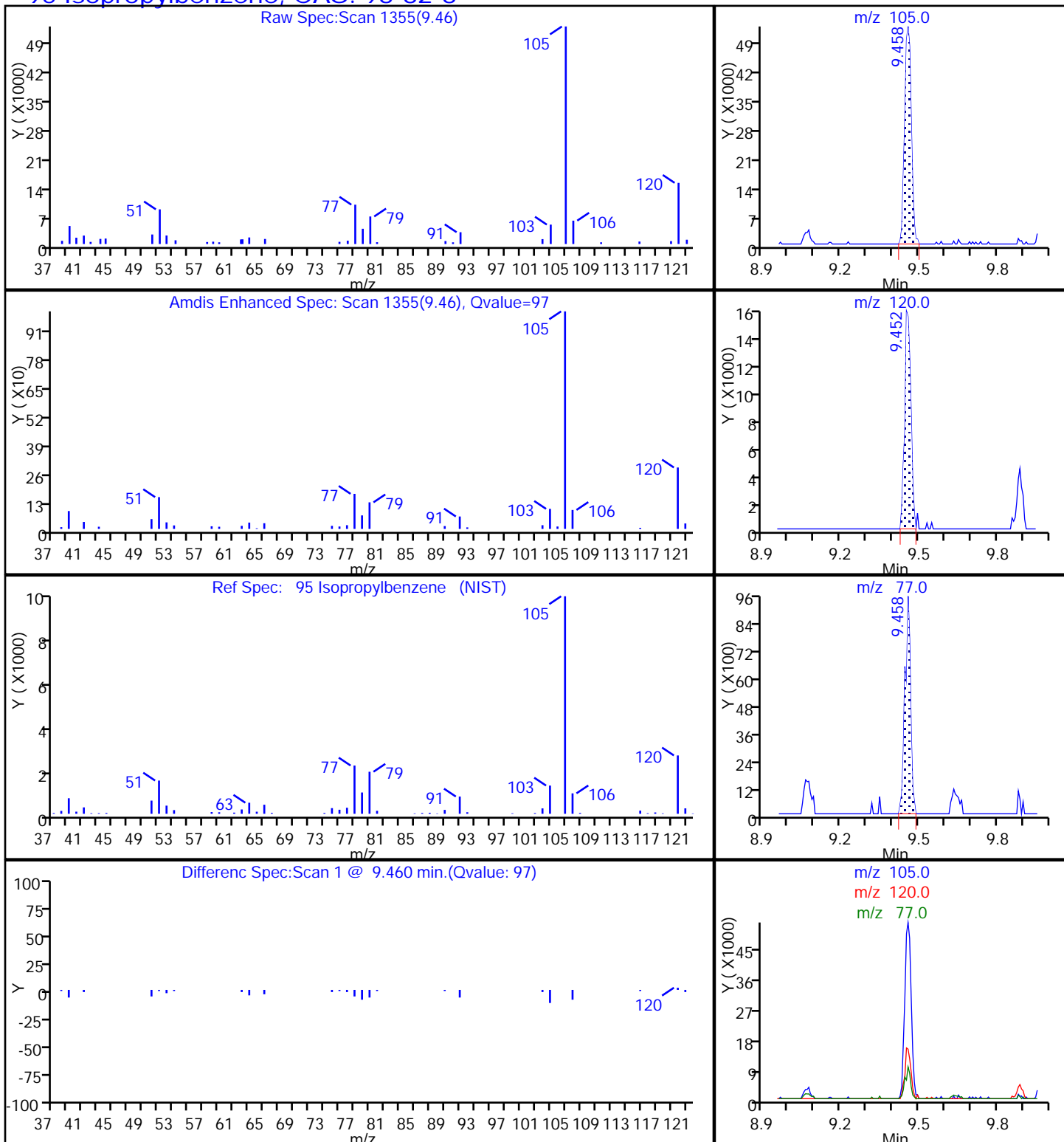
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

95 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

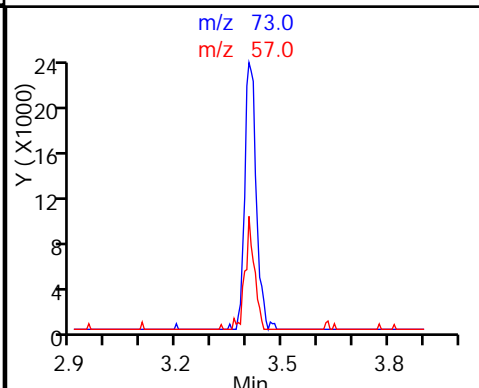
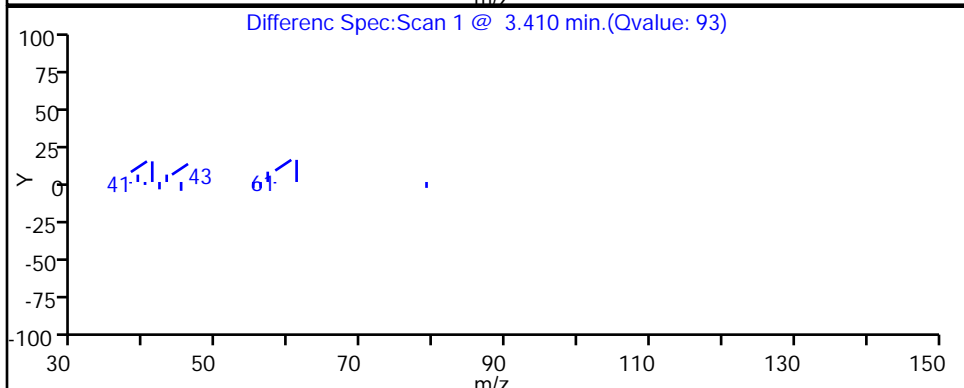
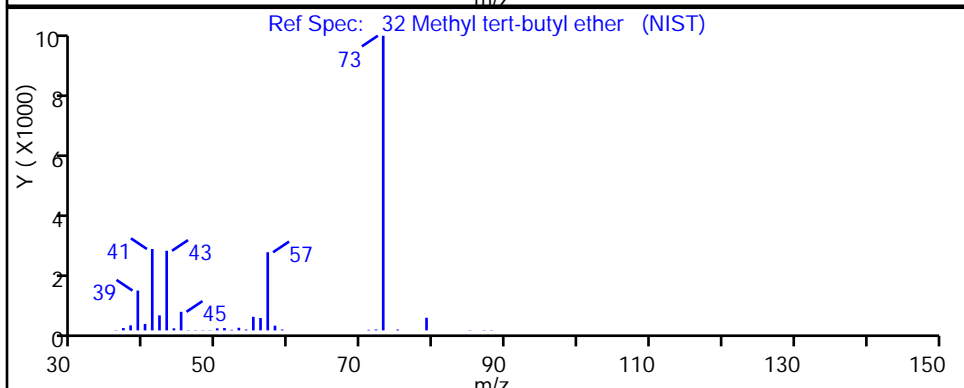
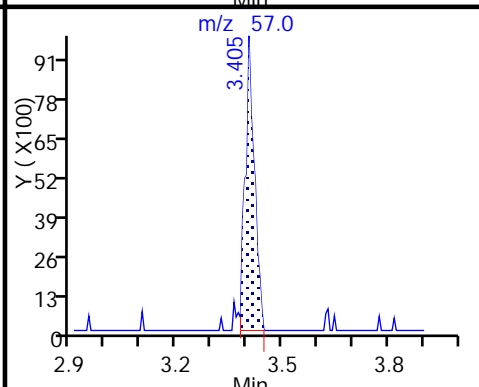
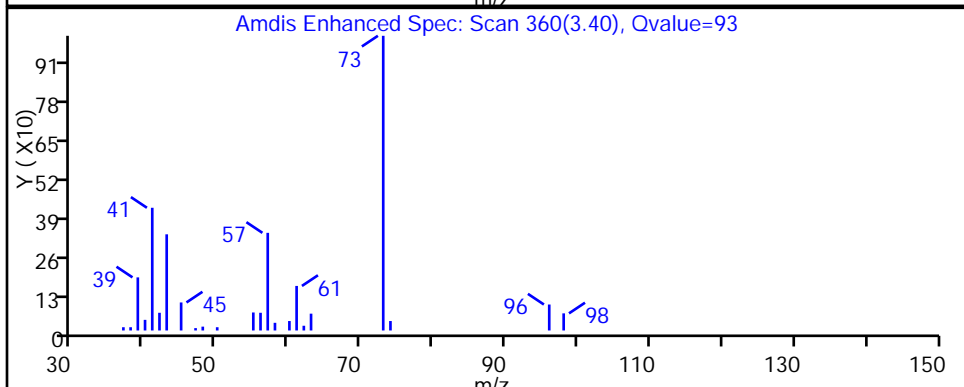
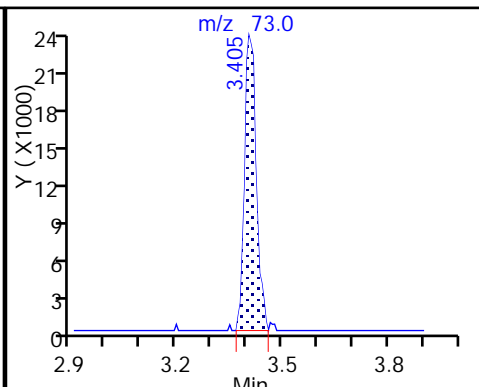
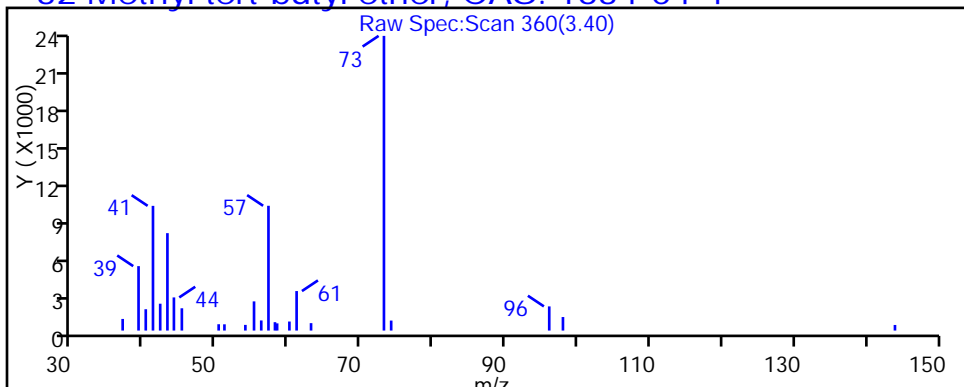
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

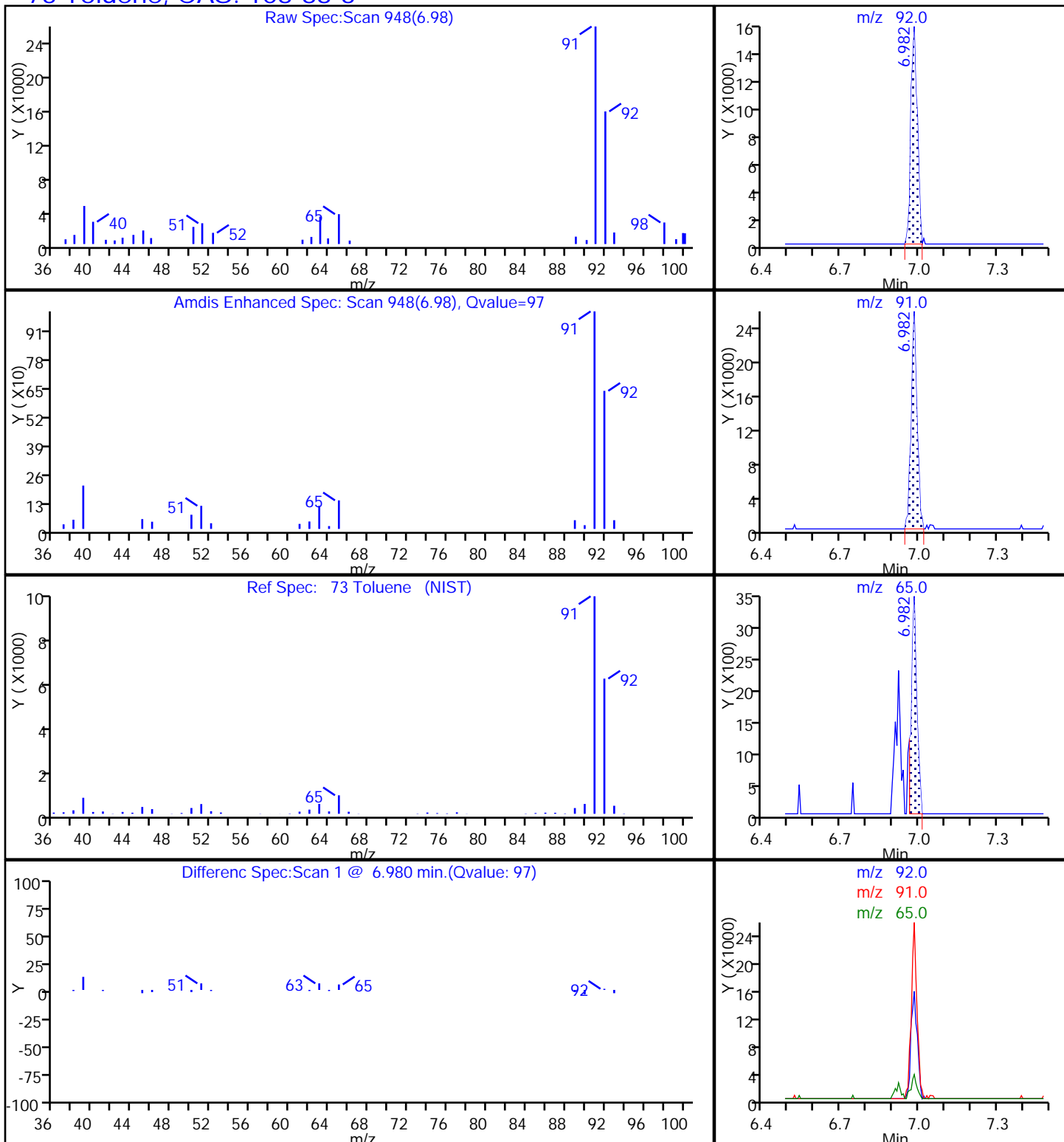
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

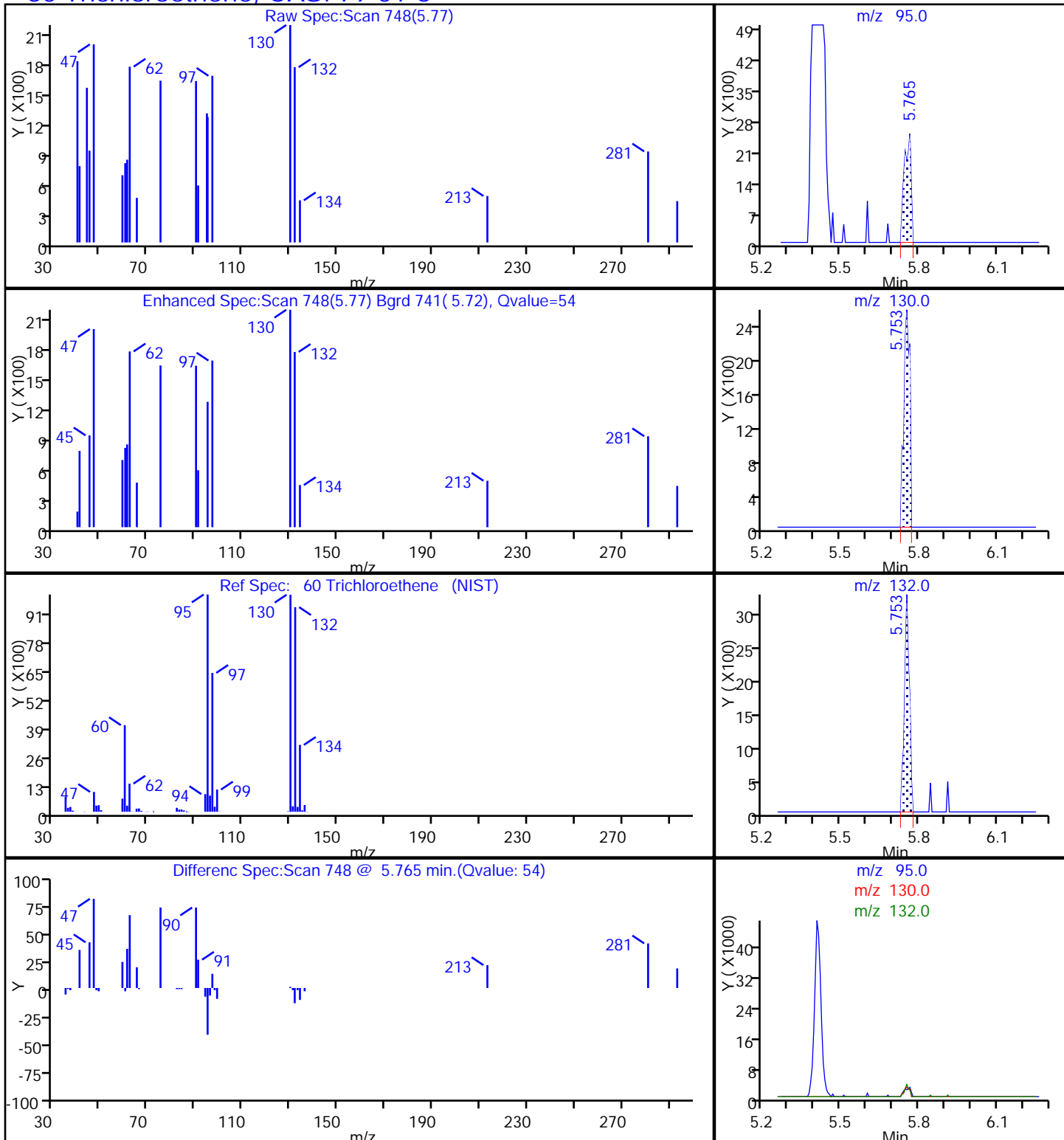
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

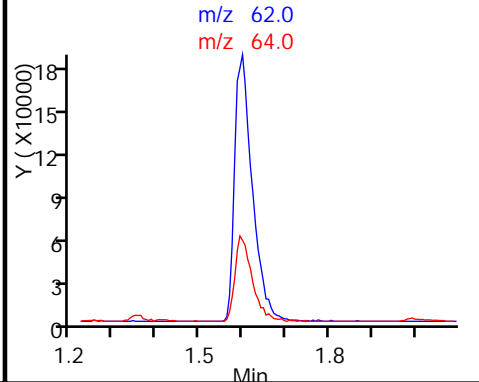
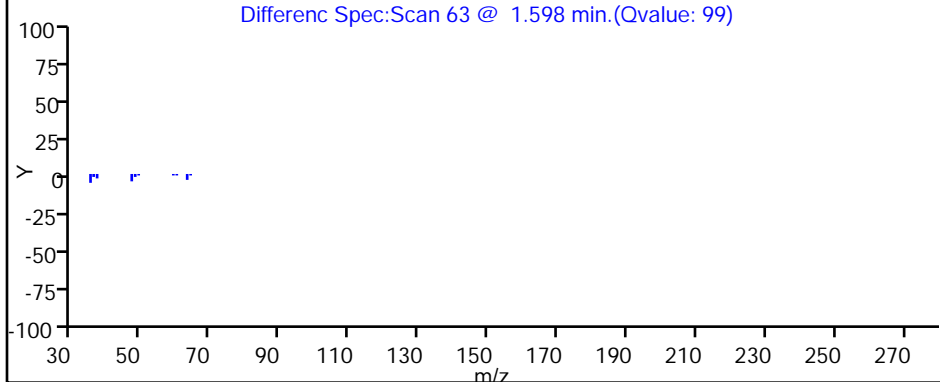
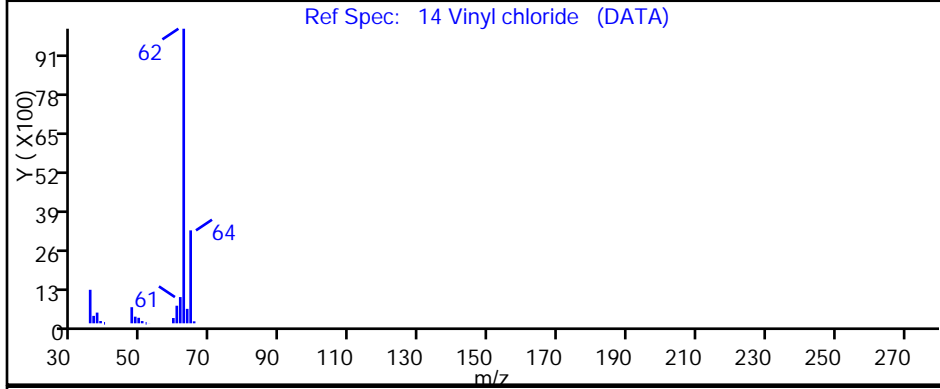
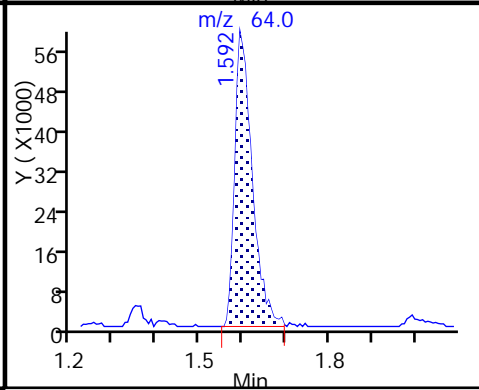
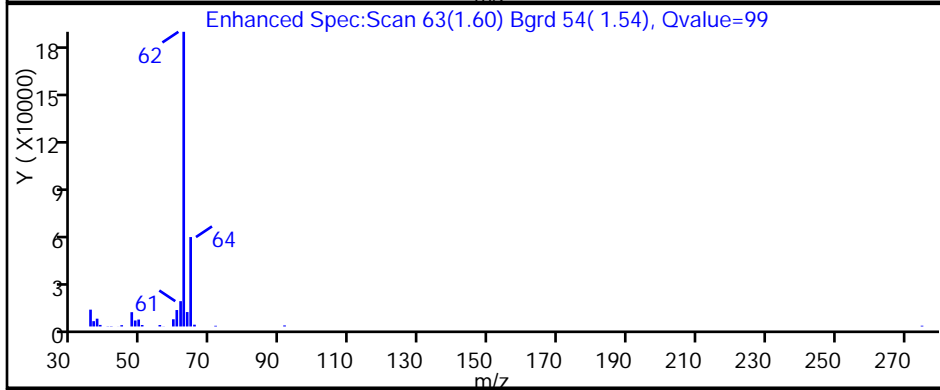
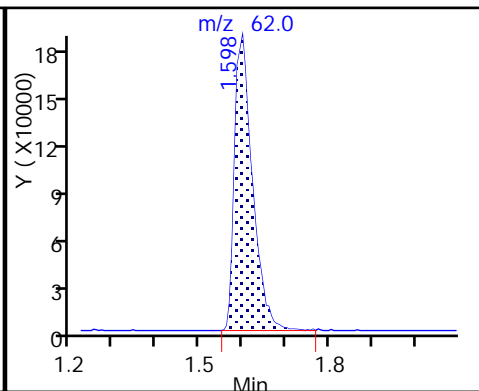
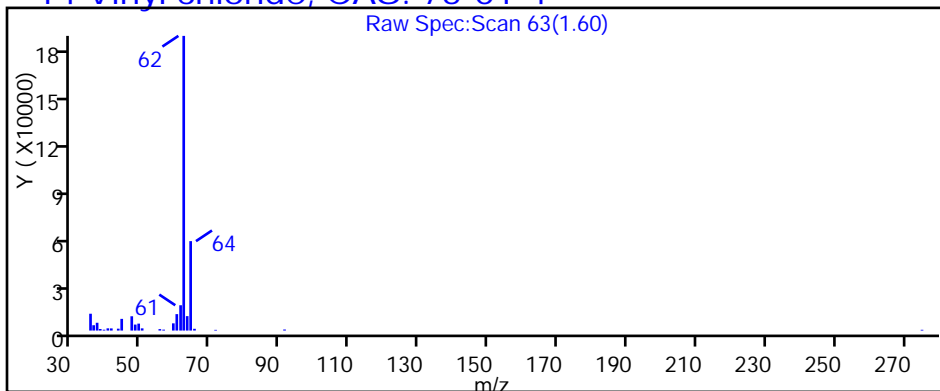
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

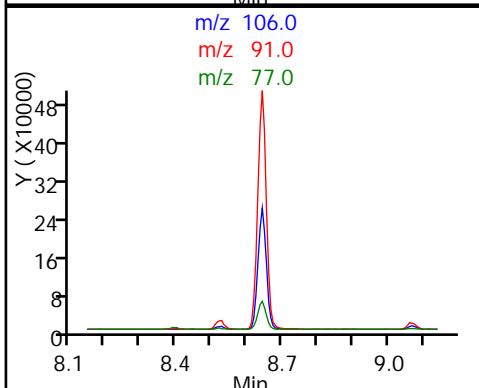
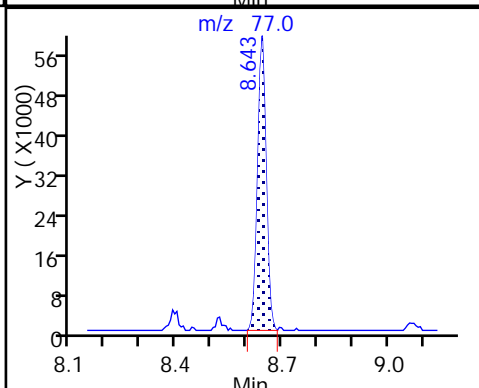
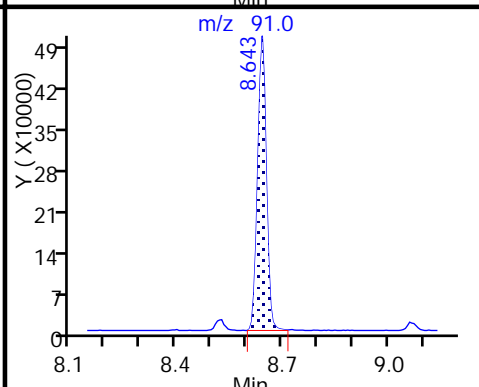
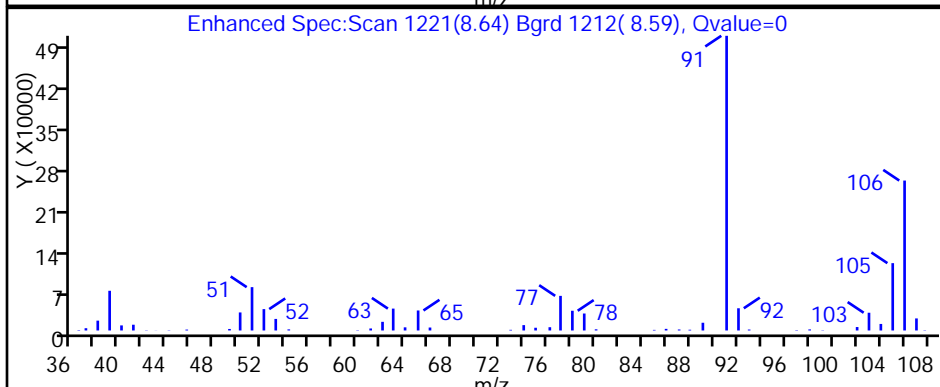
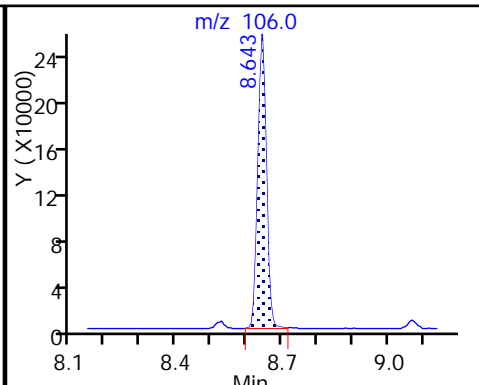
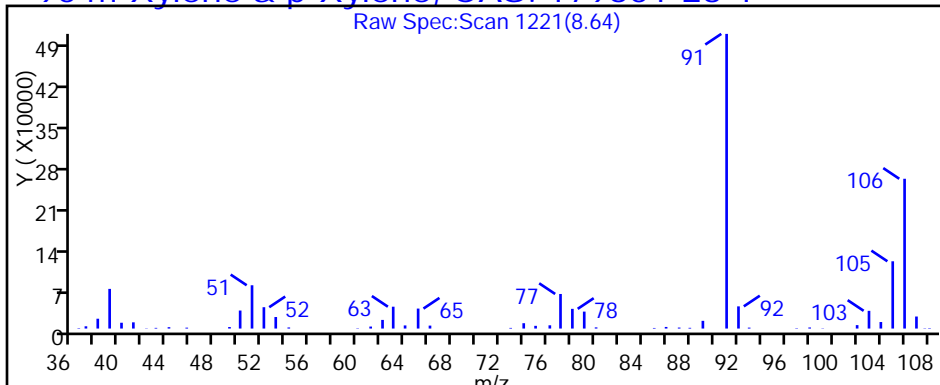
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6118.D

Injection Date: 08-Jan-2018 03:31:30

Instrument ID: HP5973N

Lims ID: 480-129748-J-3

Lab Sample ID: 480-129748-3

Client ID: LBA-SBW-16

Operator ID: AS

ALS Bottle#: 24

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

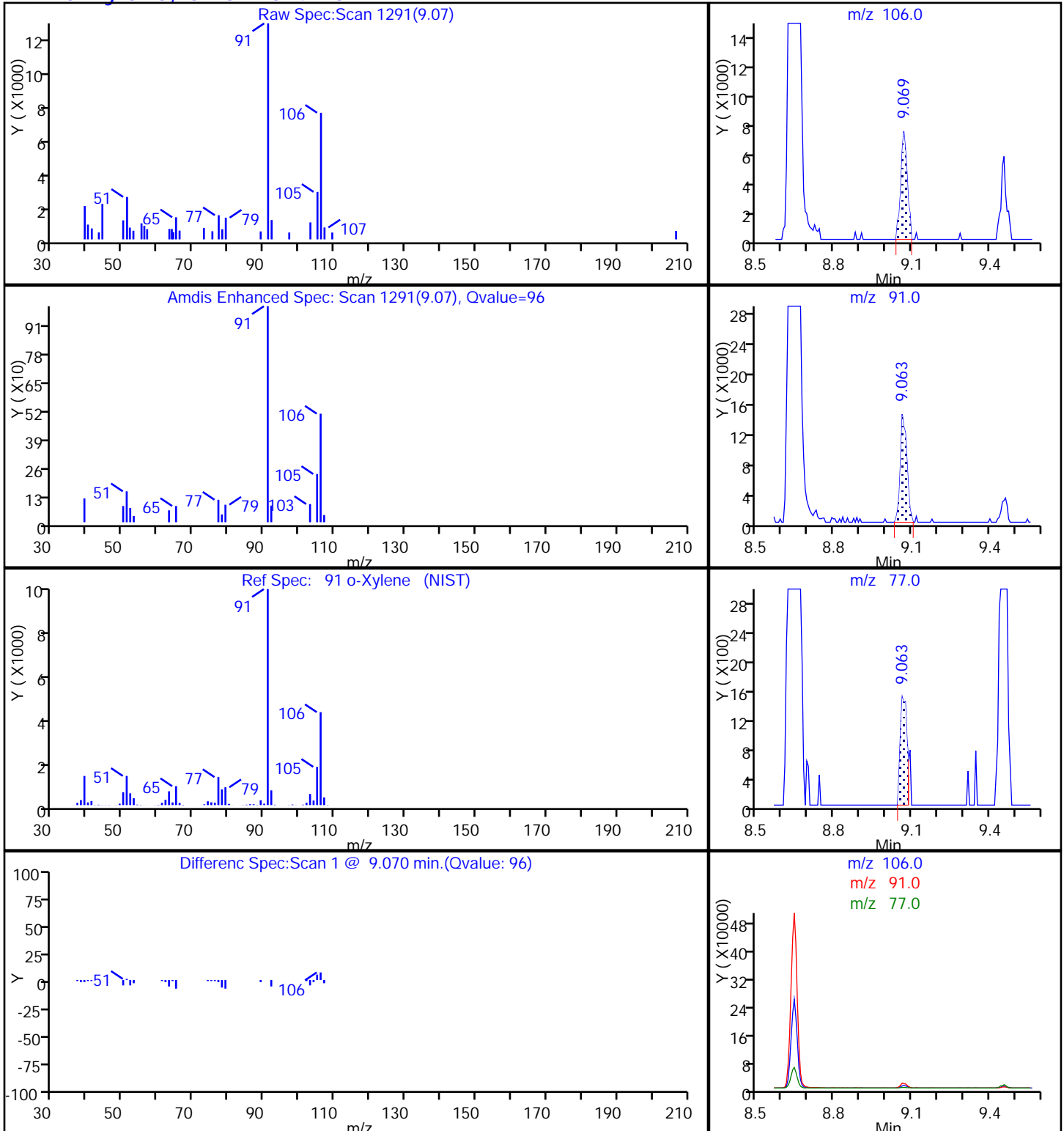
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

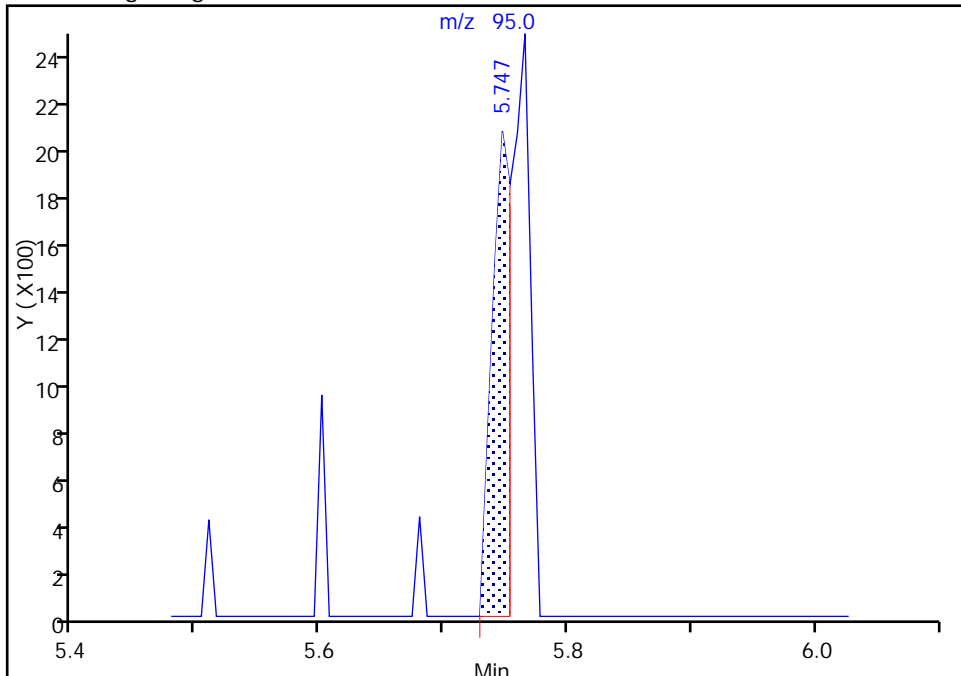
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Injection Date: 08-Jan-2018 03:31:30 Instrument ID: HP5973N
Lims ID: 480-129748-J-3 Lab Sample ID: 480-129748-3
Client ID: LBA-SBW-16
Operator ID: AS ALS Bottle#: 24 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

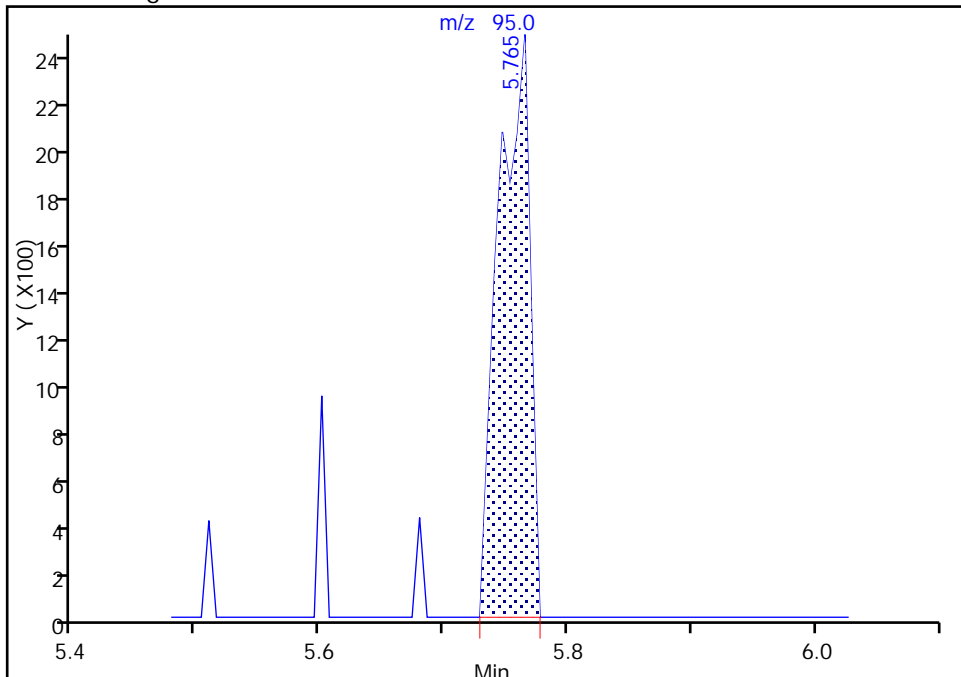
RT: 5.75
Area: 2252
Amount: 0.274095
Amount Units: ug/L

Processing Integration Results



RT: 5.77
Area: 4322
Amount: 0.526039
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 08-Jan-2018 09:49:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-129748-4
 Matrix: Water Lab File ID: T3685.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 20:48
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	25		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	560	F1	10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	13		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	46		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-129748-4
 Matrix: Water Lab File ID: T3685.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 20:48
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	39		10	1.6
108-87-2	Methylcyclohexane	2.4	J	10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	220		10	9.0
1330-20-7	Xylenes, Total	620	F1	20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-129748-4
 Matrix: Water Lab File ID: T3685.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 20:48
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D
 Lims ID: 480-129748-K-4
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 05-Jan-2018 20:48:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-129748-F-4
 Misc. Info.: 480-0068385-011
 Operator ID: kn Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 08:46:21 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler Date: 08-Jan-2018 08:46:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	106354	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	89	431953	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	264390	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	94	146652	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	193869	26.4	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	504809	23.5	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.102	0.001	91	194271	27.2	
11 Dichlorodifluoromethane	85		1.232				ND	
13 Chloromethane	50		1.398				ND	
14 Vinyl chloride	62	1.481	1.481	0.000	97	161856	21.6	
15 Bromomethane	94		1.771				ND	
16 Chloroethane	64		1.843				ND	
17 Trichlorofluoromethane	101		2.051				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.507				ND	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	1	495	0.1077	
23 Acetone	43	2.610	2.610	-0.011	29	1405	0.6914	
25 Carbon disulfide	76		2.683				ND	
28 Methyl acetate	43		2.890				ND	
30 Methylene Chloride	84		2.983				ND	M
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	94	64080	3.92	
32 trans-1,2-Dichloroethene	96		3.180				ND	
36 1,1-Dichloroethane	63		3.543				ND	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	83	333160	55.6	
44 2-Butanone (MEK)	43		4.040				ND	
50 Chloroform	83		4.279				ND	
51 1,1,1-Trichloroethane	97		4.372				ND	
52 Cyclohexane	56		4.372				ND	
53 Carbon tetrachloride	117		4.476				ND	
55 Benzene	78	4.652	4.652	0.000	54	49938	2.54	
57 1,2-Dichloroethane	62		4.714				ND	
60 Trichloroethene	95	5.139	5.139	0.000	42	1306	0.2199	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.242	5.232	0.010	81	2247	0.2441	
63 1,2-Dichloropropane	63		5.325				ND	
67 Dichlorobromomethane	83		5.553				ND	
71 cis-1,3-Dichloropropene	75		5.875				ND	
72 4-Methyl-2-pentanone (MIBK)	43	5.968	5.968	-0.010	1	1464	0.2051	
73 Toluene	92	6.092	6.092	0.000	95	6230	0.4455	
75 trans-1,3-Dichloropropene	75		6.310				ND	
78 1,1,2-Trichloroethane	83		6.455				ND	
79 Tetrachloroethene	166		6.496				ND	
81 2-Hexanone	43		6.610				ND	
82 Chlorodibromomethane	129		6.755				ND	
83 Ethylene Dibromide	107		6.838				ND	
86 Chlorobenzene	112		7.191				ND	
88 Ethylbenzene	91	7.253	7.253	0.000	99	38144	1.32	
90 m-Xylene & p-Xylene	106	7.336	7.336	0.000	0	675363	60.6	
91 o-Xylene	106	7.657	7.667	-0.010	97	12757	1.16	
92 Styrene	104		7.688				ND	
93 Bromoform	173		7.885				ND	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	142446	4.55	
98 1,1,2,2-Tetrachloroethane	83		8.258				ND	
110 1,3-Dichlorobenzene	146		8.984				ND	
113 1,4-Dichlorobenzene	146		9.056				ND	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	0	2108	0.1373	
117 1,2-Dibromo-3-Chloropropan	75		10.041				ND	
119 1,2,4-Trichlorobenzene	180		10.693				ND	
S 126 Xylenes, Total	1				0		61.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

T_8260_IS_00183

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00164

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Operator ID: kn

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Worklist Smp#: 11

Client ID: ML-2S

Purge Vol: 5.000 mL

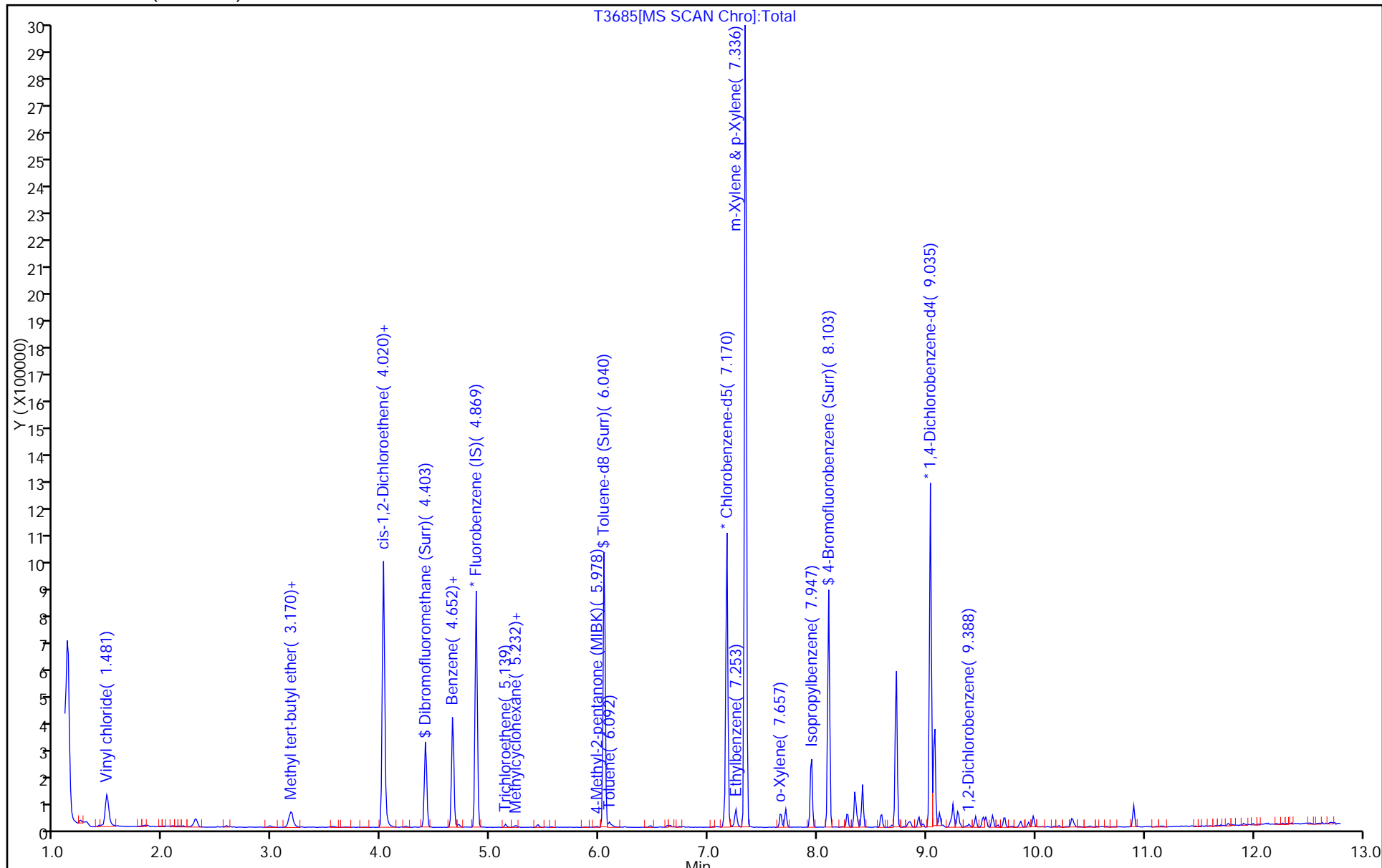
Dil. Factor: 10.0000

ALS Bottle#: 9

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

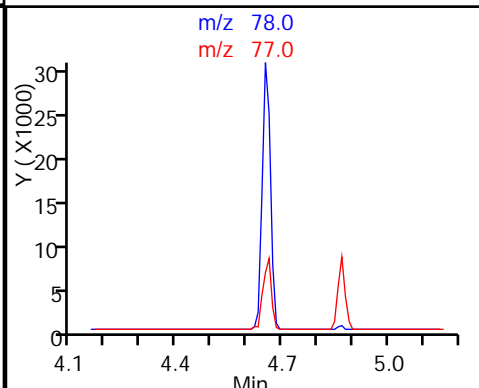
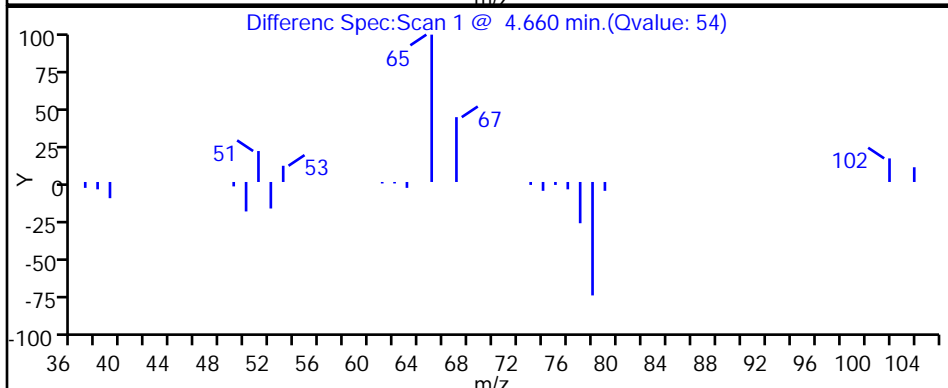
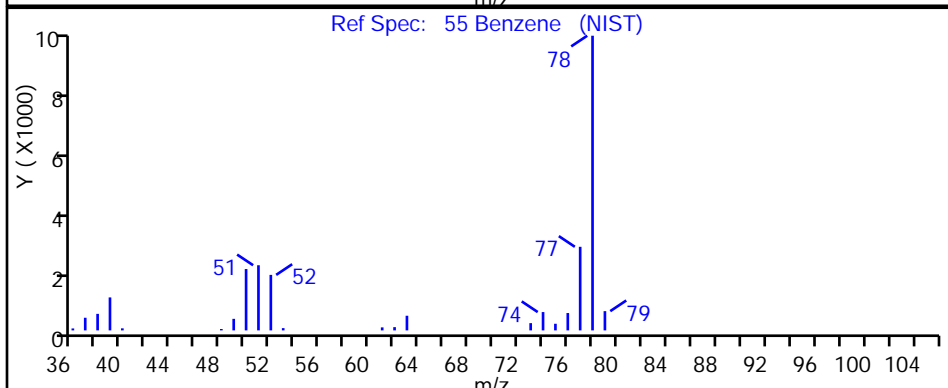
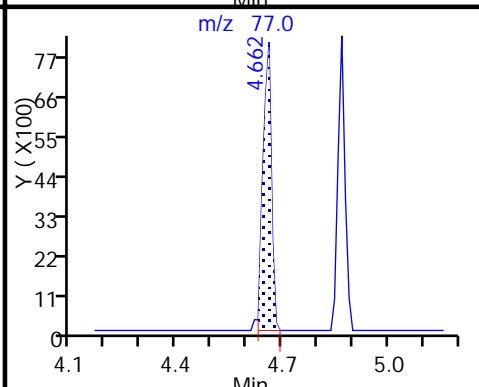
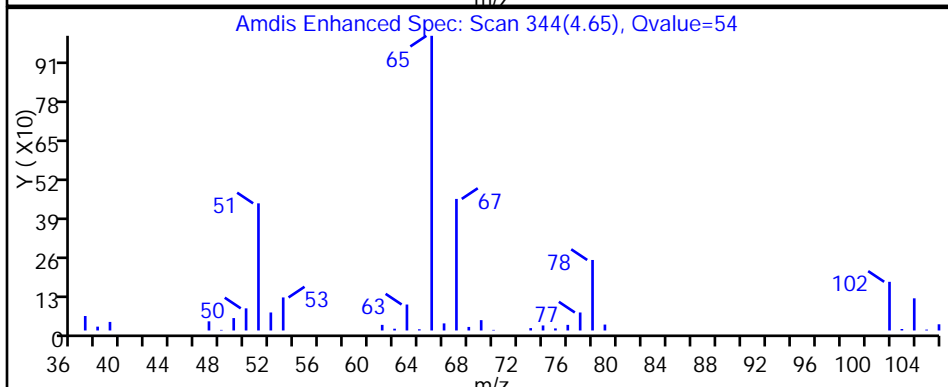
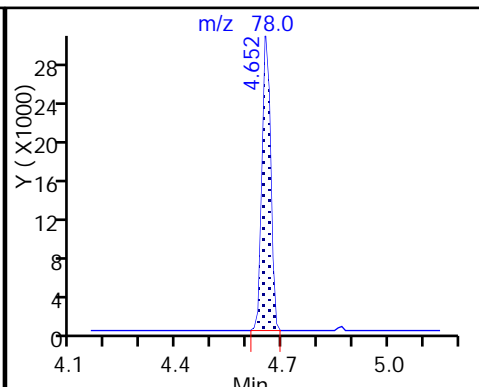
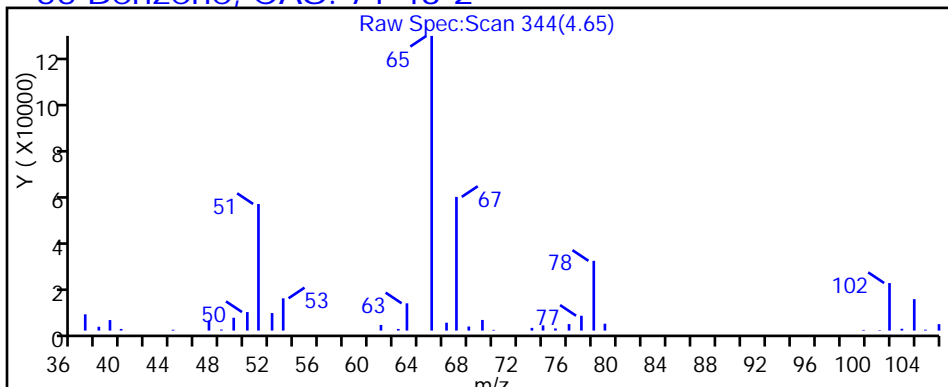
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

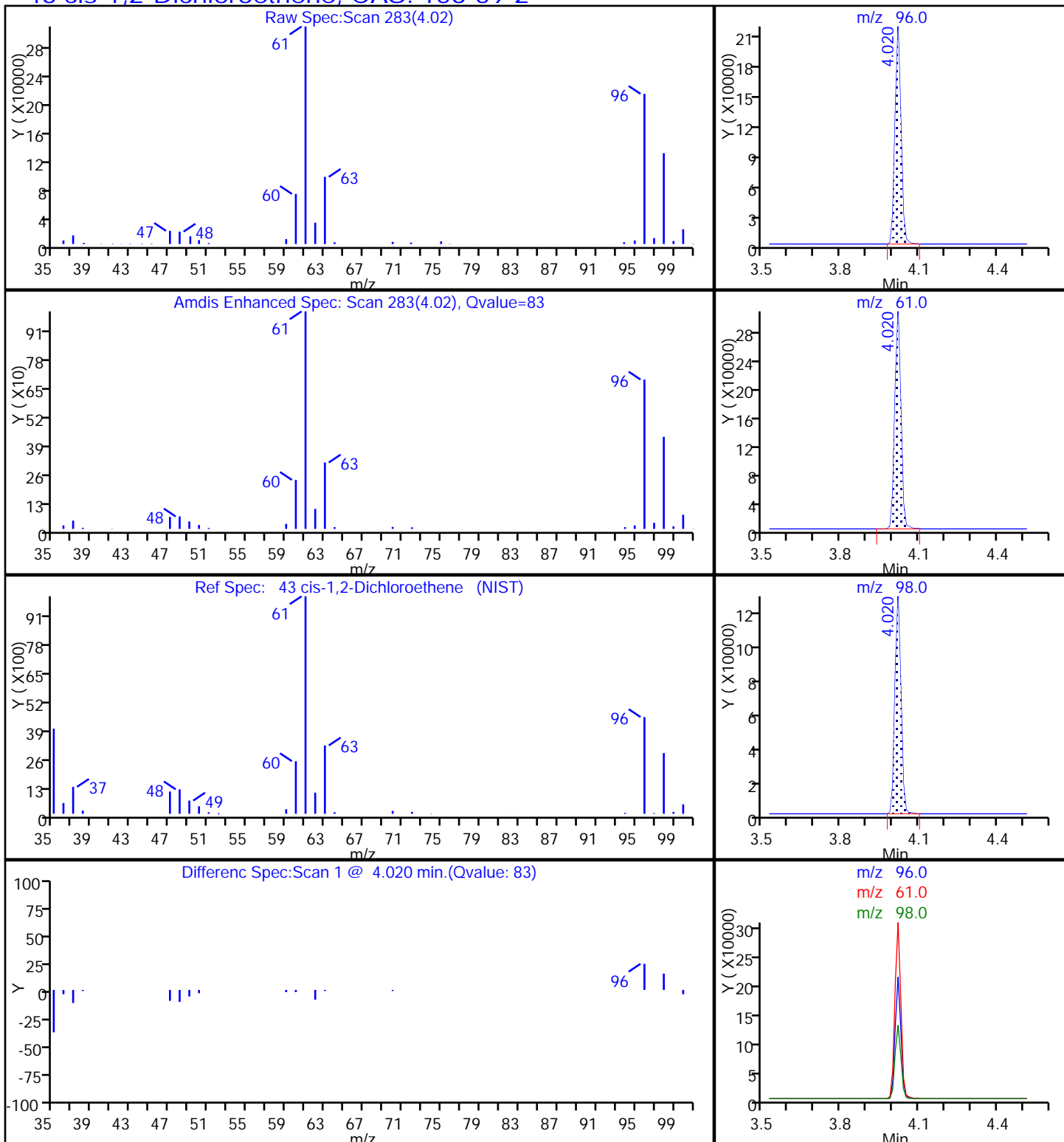
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

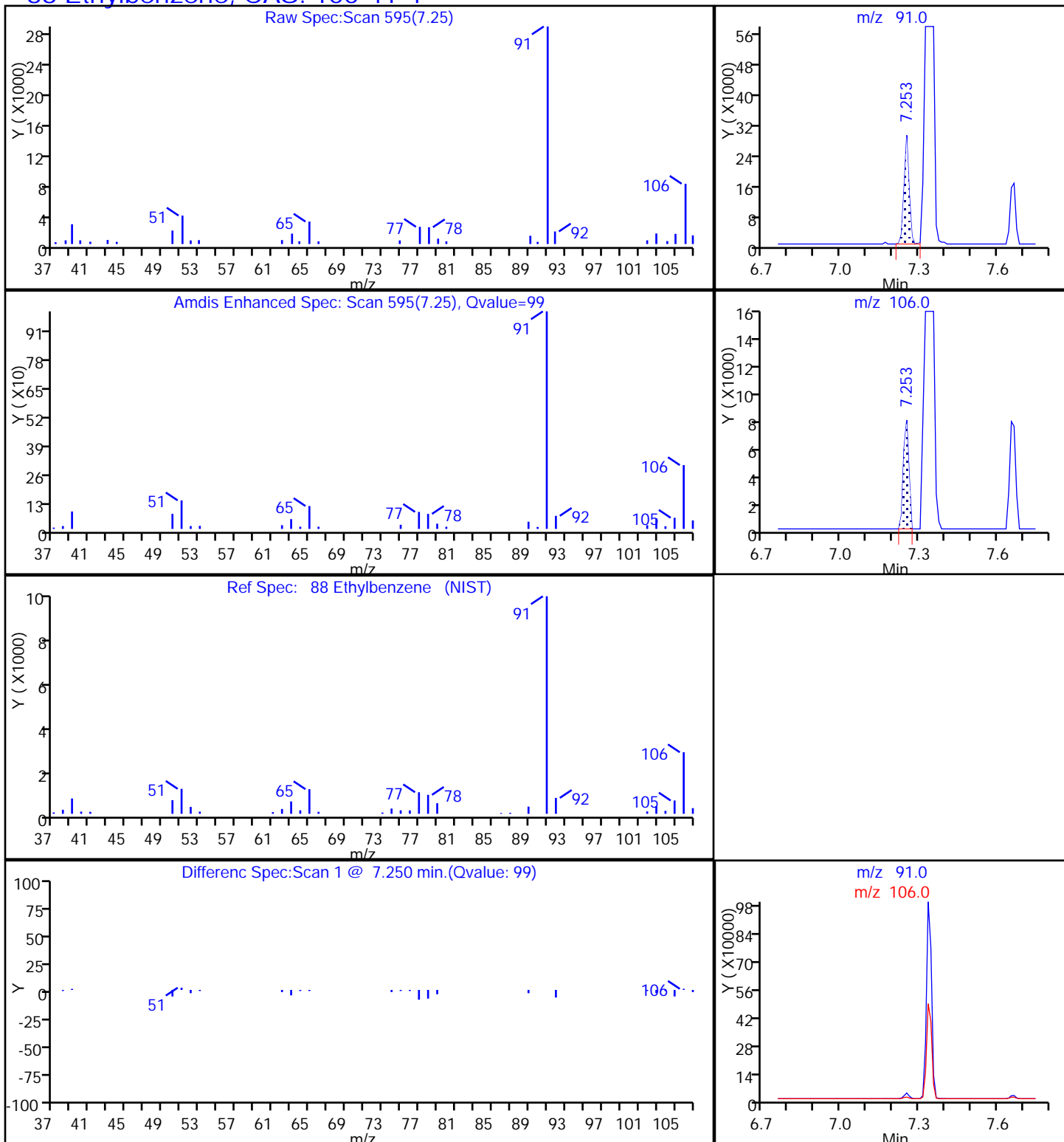
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

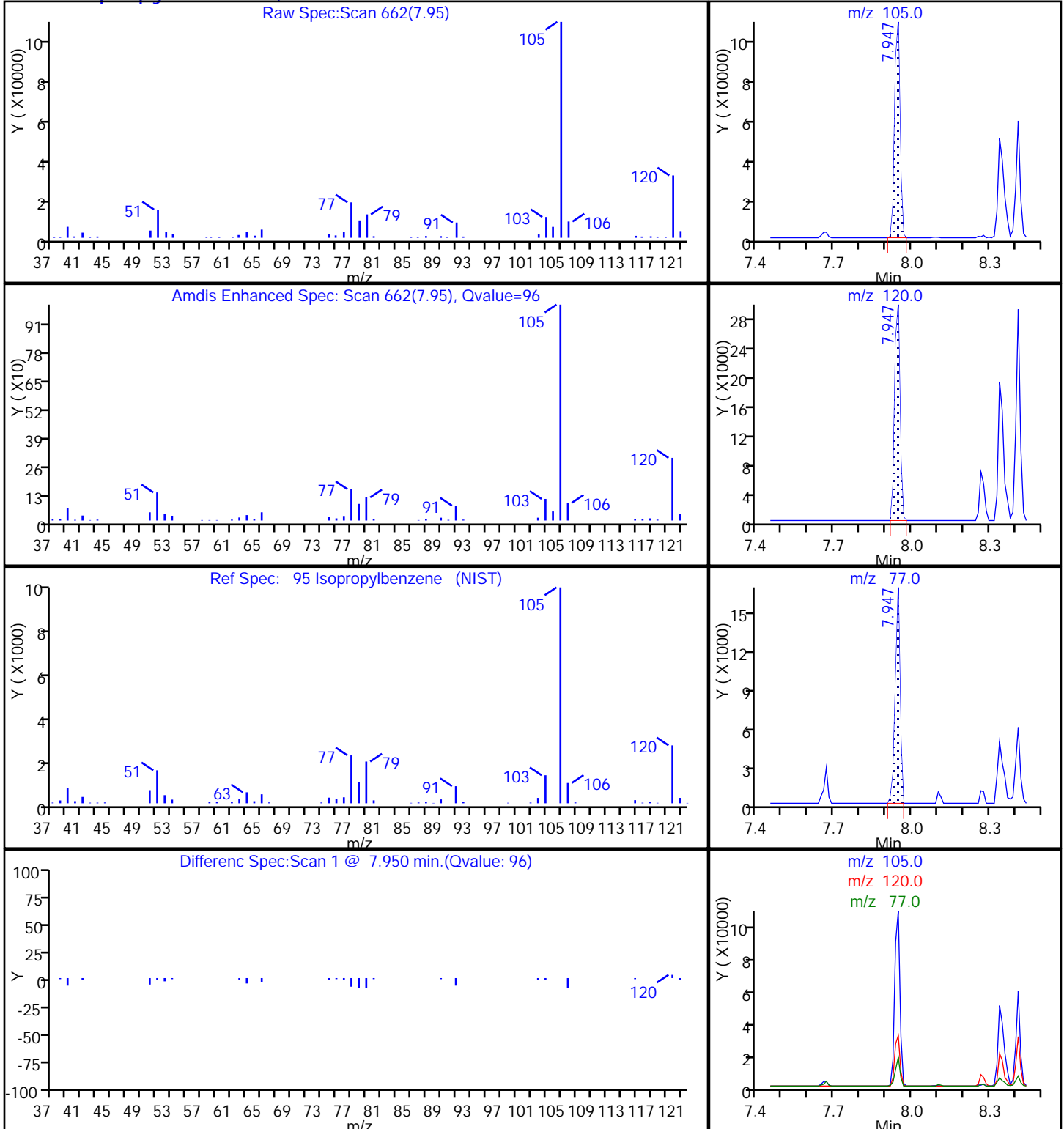
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

95 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

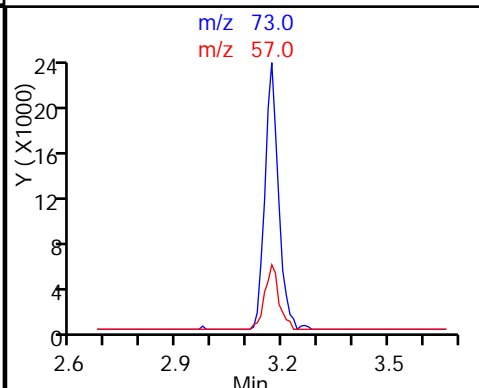
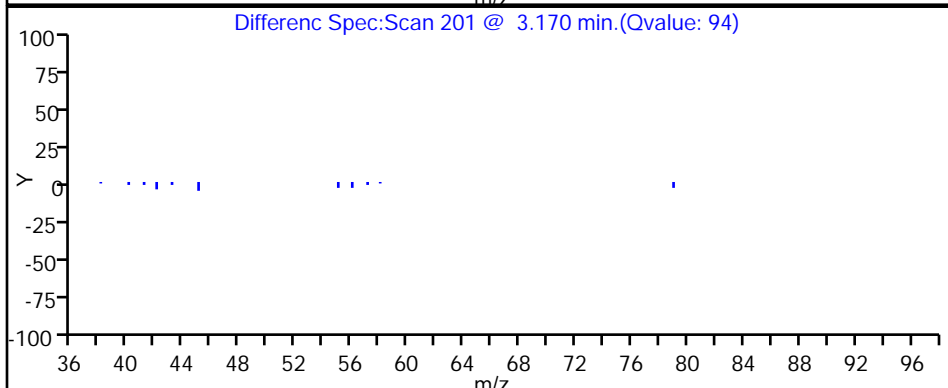
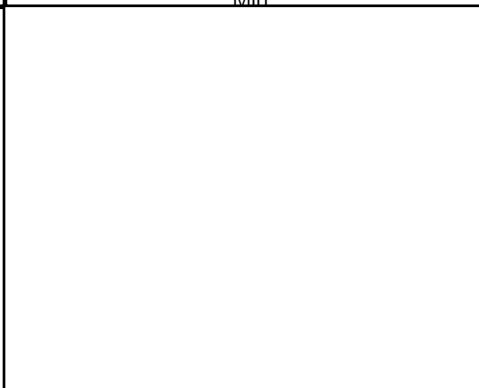
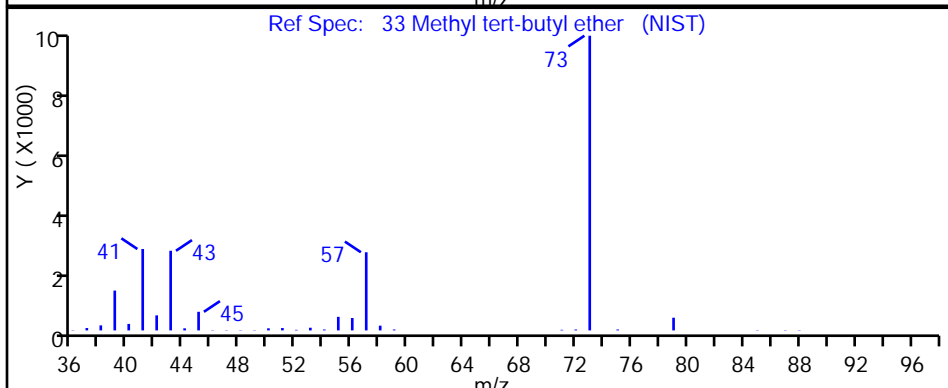
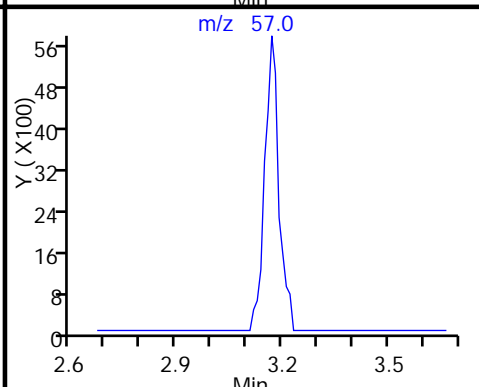
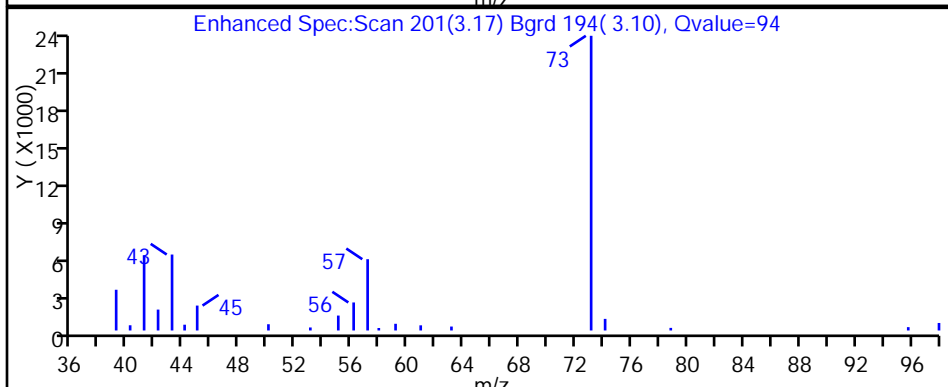
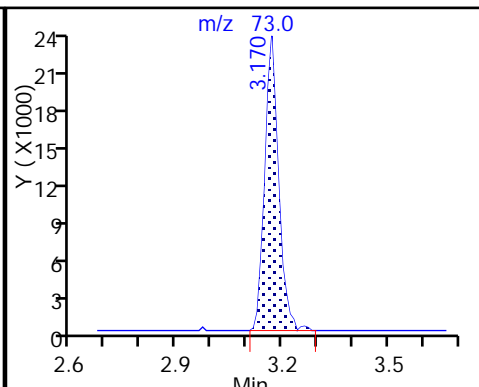
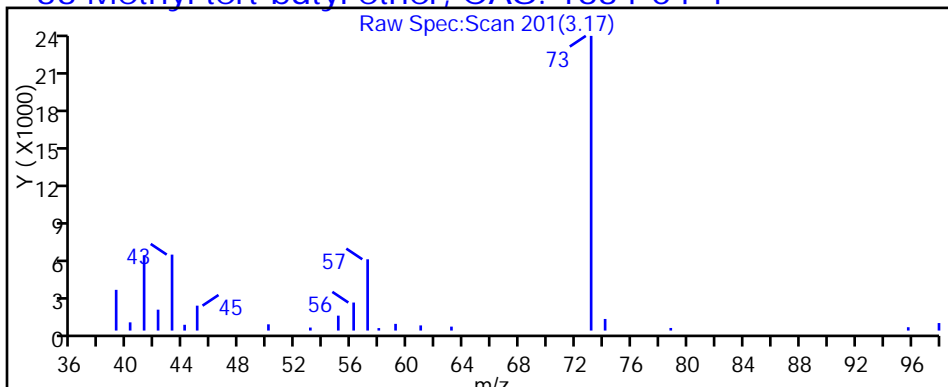
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

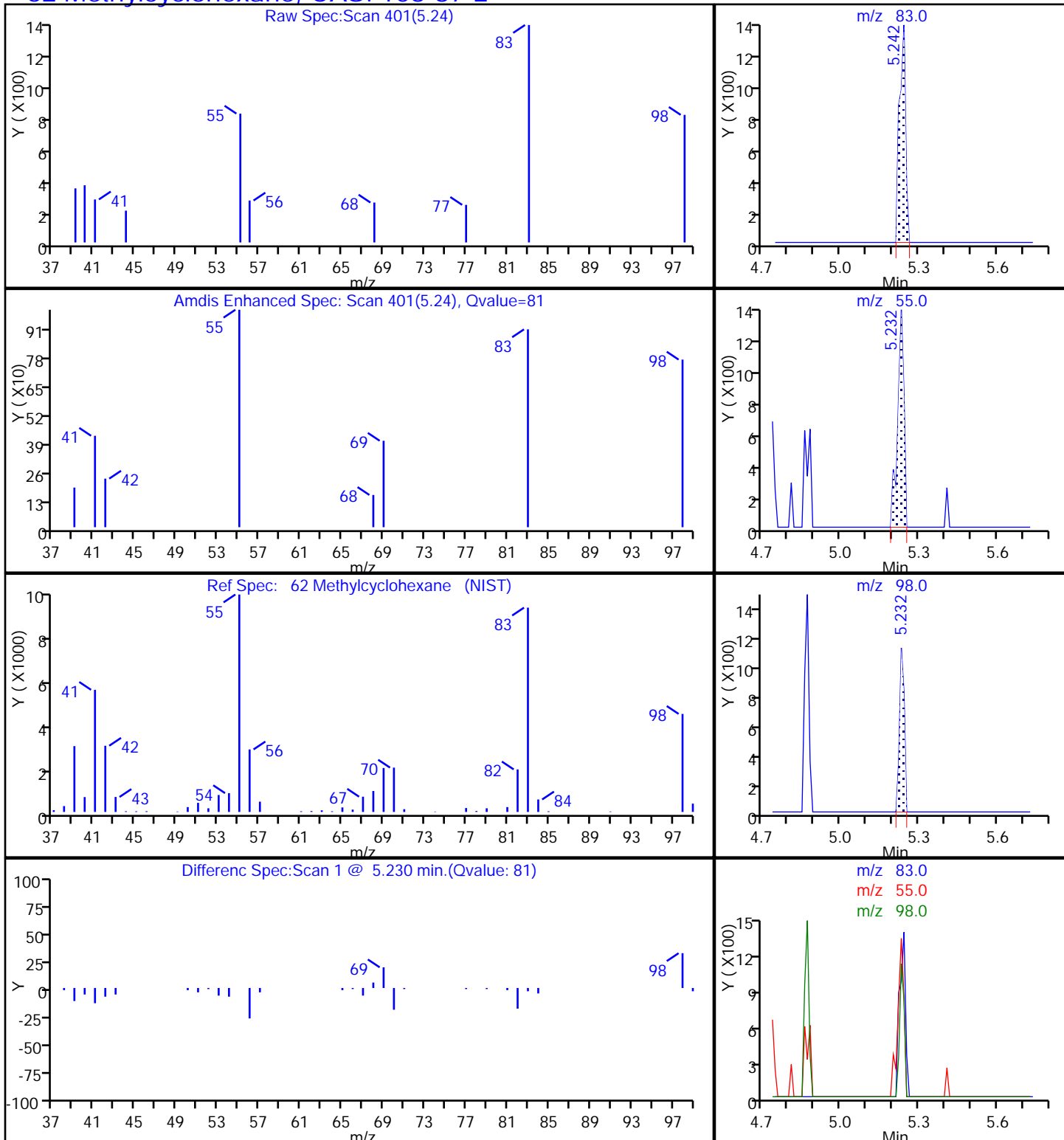
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

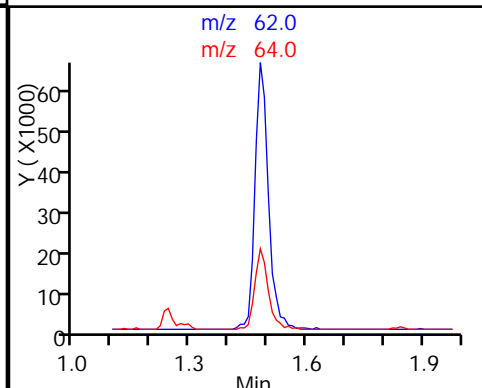
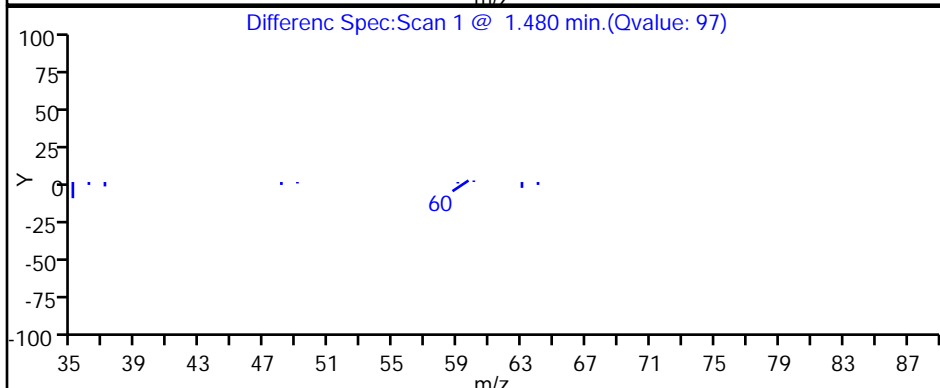
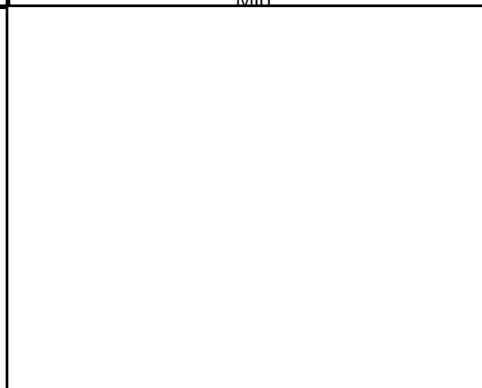
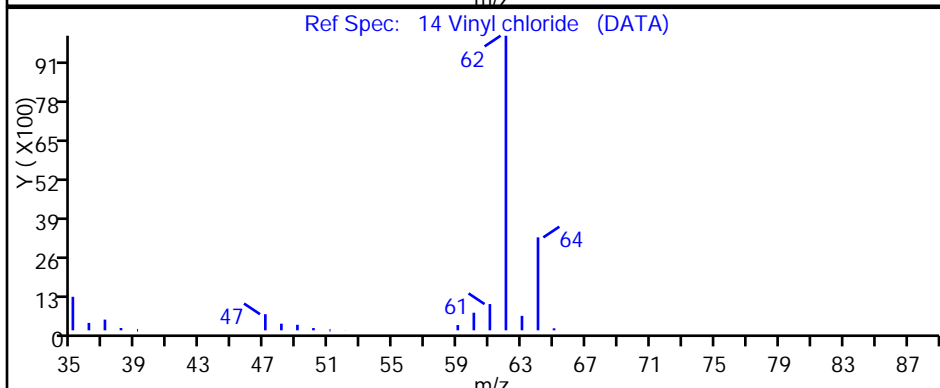
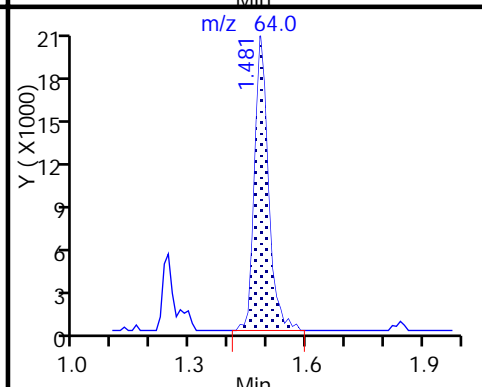
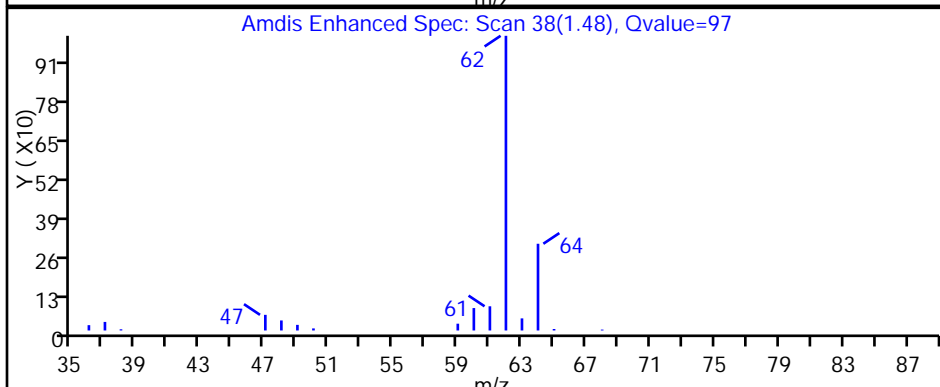
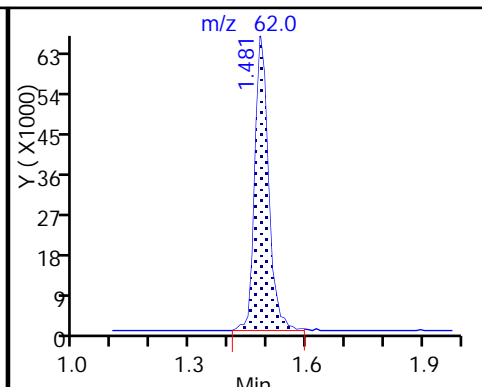
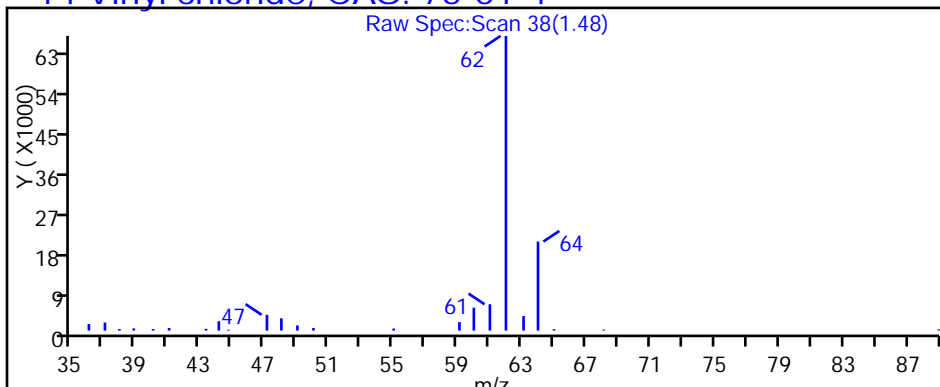
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

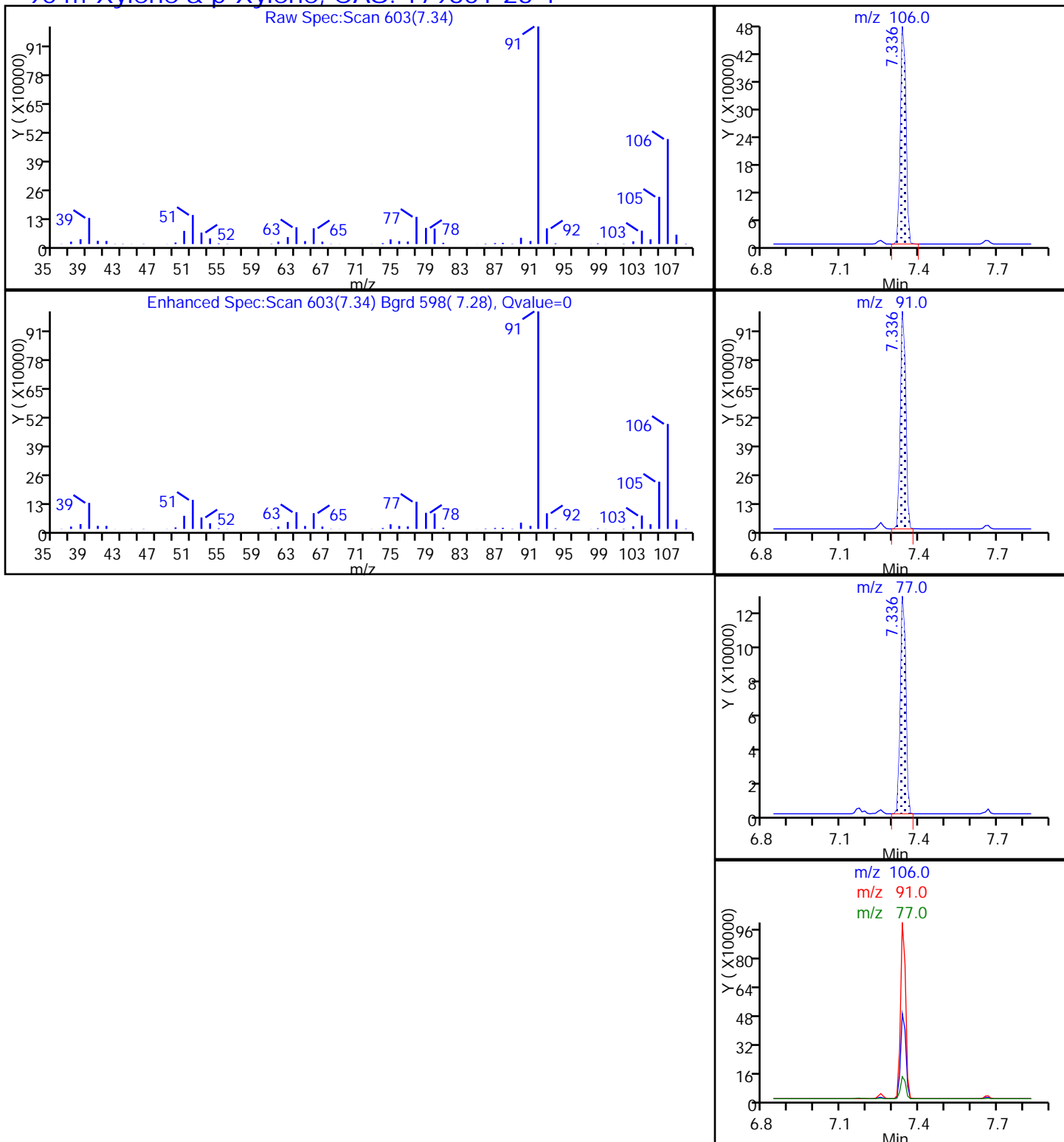
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3685.D

Injection Date: 05-Jan-2018 20:48:30

Instrument ID: HP5975T

Lims ID: 480-129748-K-4

Lab Sample ID: 480-129748-4

Client ID: ML-2S

Operator ID: kn

ALS Bottle#: 9

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

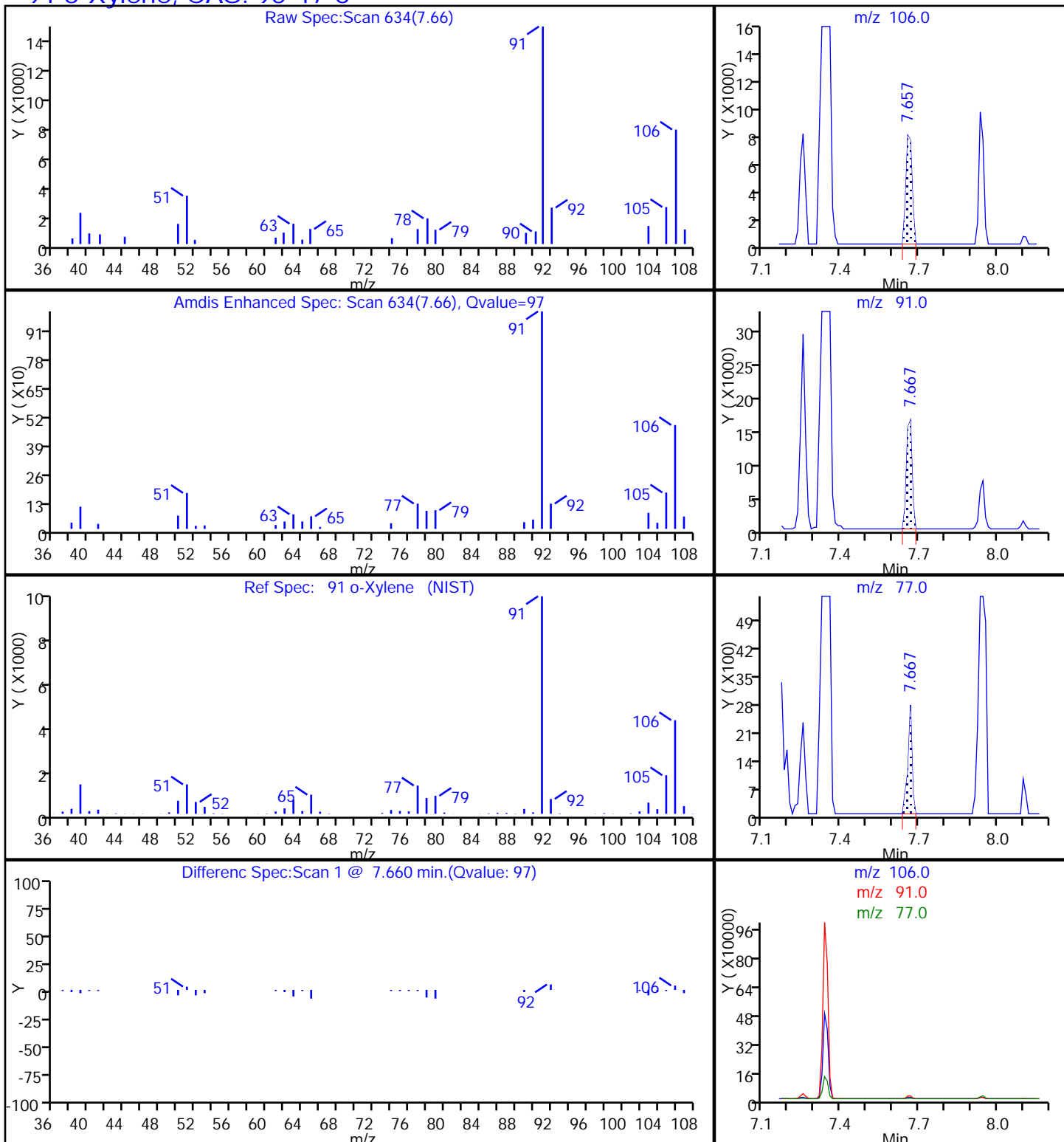
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-129748-5
 Matrix: Water Lab File ID: N6130.D
 Analysis Method: 8260C Date Collected: 01/03/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 12:57
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	140		100	31
75-34-3	1,1-Dichloroethane	2200		100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND	*	1000	300
71-43-2	Benzene	ND		100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	ND		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	6700		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-129748-5
 Matrix: Water Lab File ID: N6130.D
 Analysis Method: 8260C Date Collected: 01/03/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 12:57
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	510		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	2300		100	90
1330-20-7	Xylenes, Total	110	J	200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-129748-5
 Matrix: Water Lab File ID: N6130.D
 Analysis Method: 8260C Date Collected: 01/03/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 12:57
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 590

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.52	590	T J N	93%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D
 Lims ID: 480-129748-I-5
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 08-Jan-2018 12:57:30 ALS Bottle#: 3 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-129748-I-5
 Misc. Info.: 480-0068404-011
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 17:03:34 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: sonkera

Date: 08-Jan-2018 17:03:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	168364	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	686436	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	96	356386	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	92	225553	25.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	302885	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	846144	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.640	0.006	93	295323	25.4	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.507				ND	
14 Vinyl chloride	62	1.604	1.598	0.006	98	291729	23.4	
15 Bromomethane	94		1.902				ND	
16 Chloroethane	64		1.993				ND	M
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.723	-0.012	29	8991	1.44	
23 Acetone	43		2.784				ND	M
25 Carbon disulfide	76		2.882				ND	
28 Methyl acetate	43		3.082				ND	
30 Methylene Chloride	84		3.174				ND	
32 Methyl tert-butyl ether	73		3.405				ND	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	36	1363	0.1732	M
36 1,1-Dichloroethane	63	3.818	3.818	0.000	97	399496	22.4	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	614382	67.2	
44 2-Butanone (MEK)	43		4.384				ND	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	95	8814	0.7129	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.938				ND	
55 Benzene	78	5.145	5.145	0.000	56	10090	0.3169	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95	5.747	5.747	-0.006	10	1718	0.2035	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.893				ND	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	
73 Toluene	92	6.976	6.988	-0.006	96	114695	5.08	
75 trans-1,3-Dichloropropene	75		7.244				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.523				ND	
82 2-Hexanone	43		7.663				ND	
83 Chlorodibromomethane	129		7.828				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91	8.521	8.521	0.000	96	13773	0.3211	
90 m-Xylene & p-Xylene	106	8.649	8.643	0.006	0	18210	1.08	
91 o-Xylene	106	9.069	9.069	0.000	97	9556	0.5640	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105		9.458				ND	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		1.64	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D
 Lims ID: 480-129748-I-5
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 08-Jan-2018 12:57:30 ALS Bottle#: 3 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-129748-I-5
 Misc. Info.: 480-0068404-011
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 17:03:34 Calib Date: 28-Dec-2017 23:52:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015
 First Level Reviewer: sonkera Date: 08-Jan-2018 17:03:34

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.523	487699	5.86	147	93	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 147 Fluorobenzene (IS)	5.412	2079629	25.0

QC Flag Legend

Processing Flags

Reagents:

N_8260_Surr_00311 Amount Added: 1.00 Units: uL Run Reagent
 N 8260 IS_00101 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Operator ID: AM/MS/RF

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Worklist Smp#: 11

Client ID: ML-2I

Purge Vol: 5.000 mL

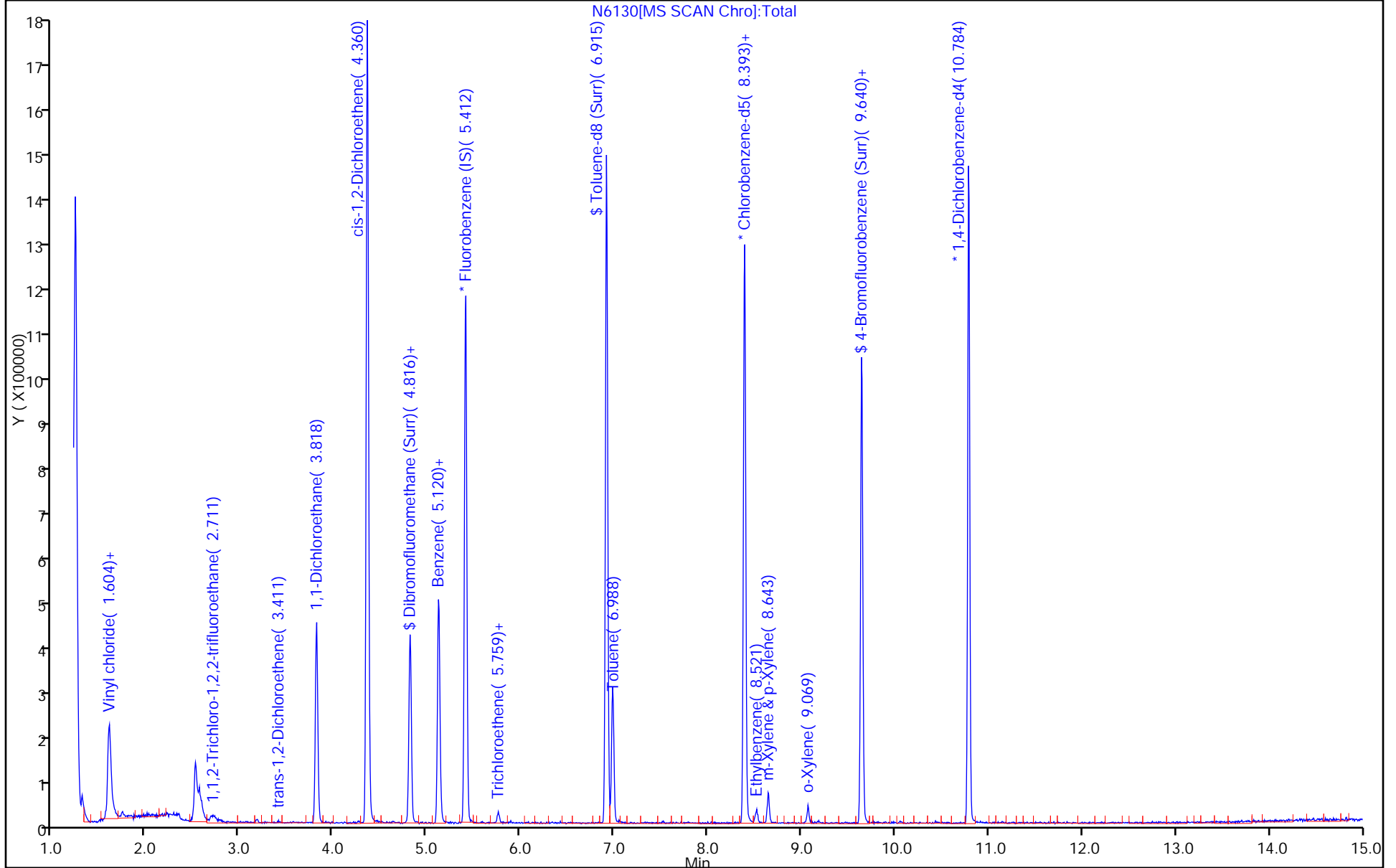
Dil. Factor: 100.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

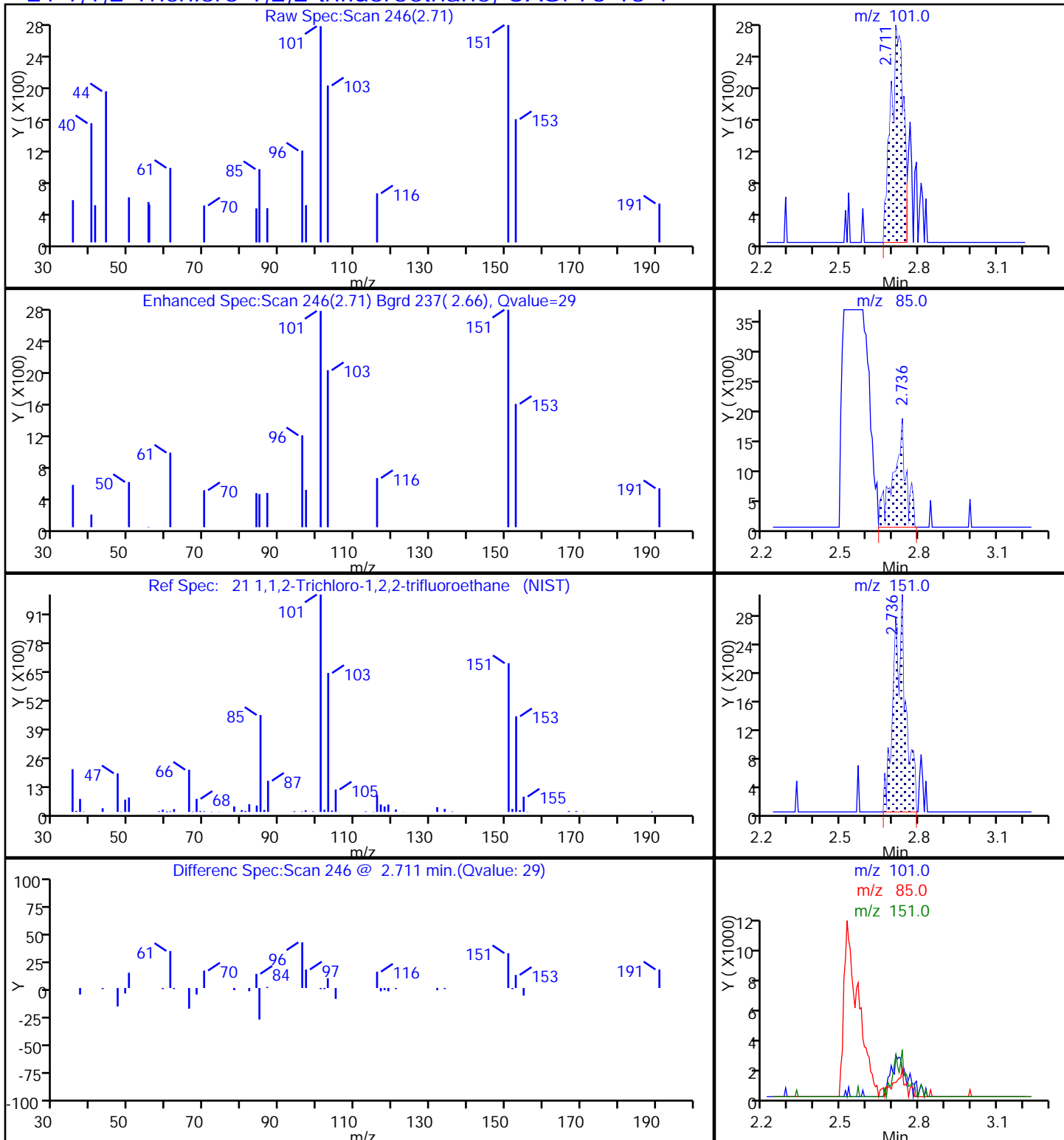
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

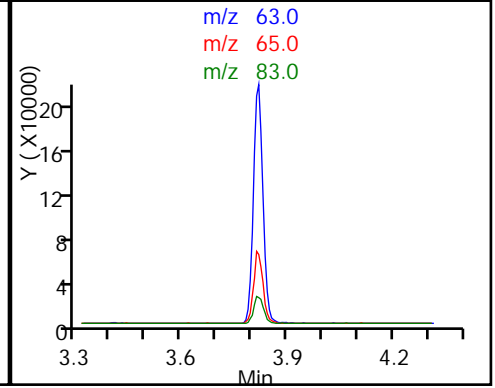
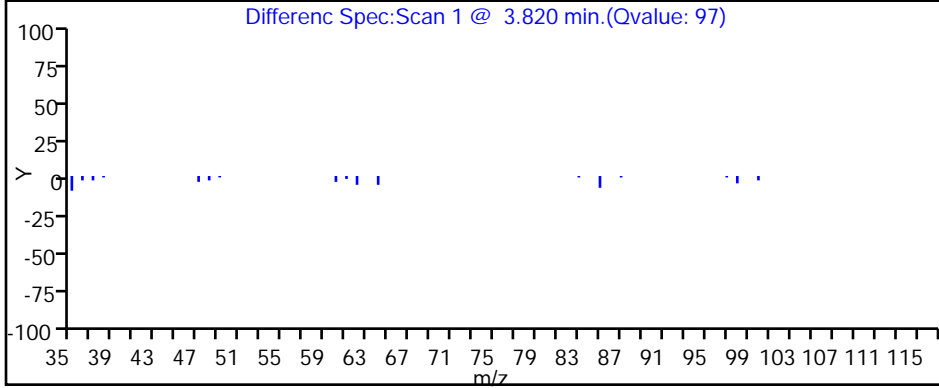
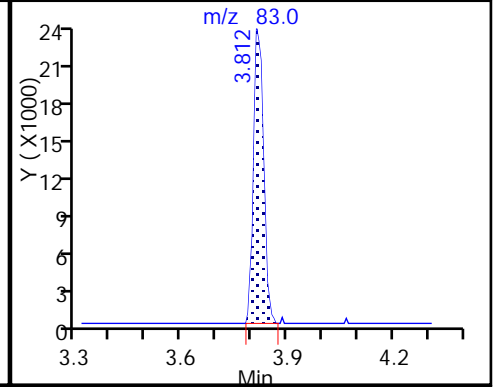
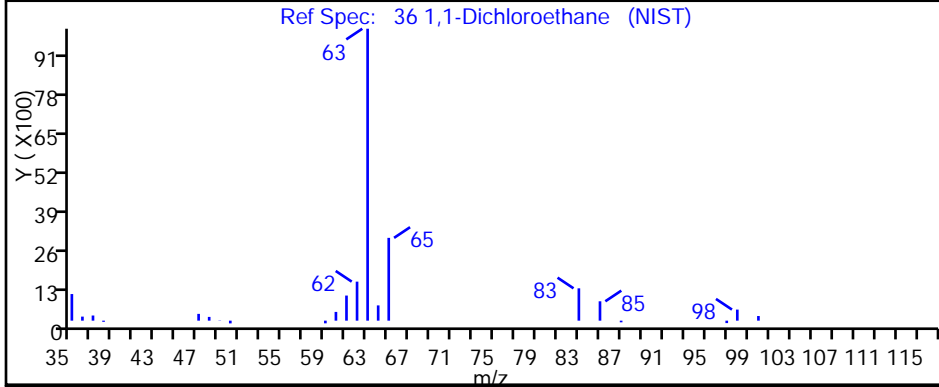
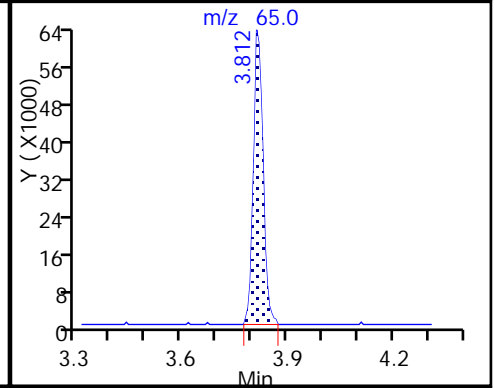
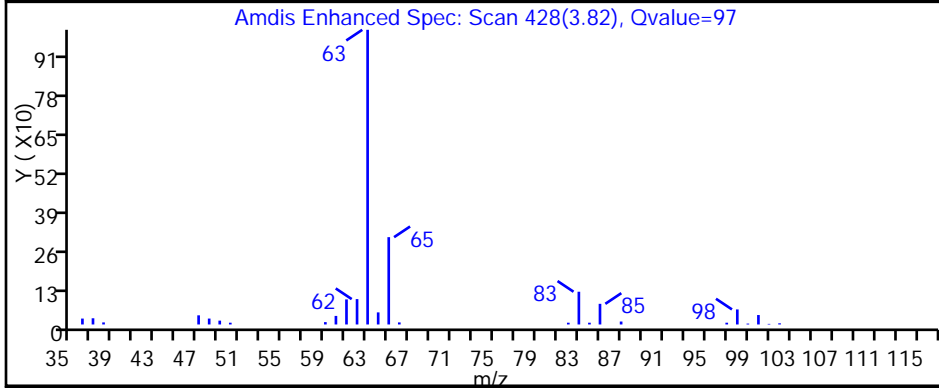
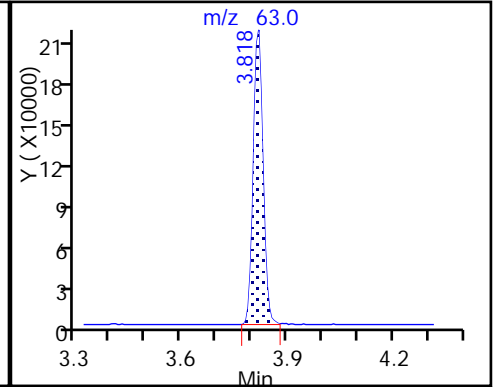
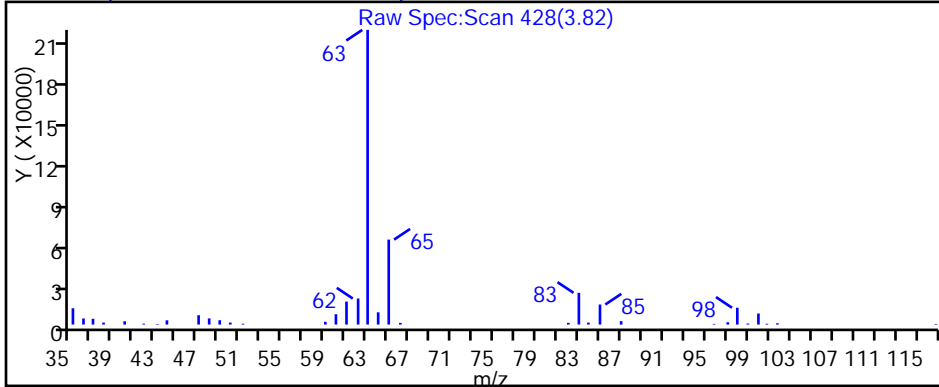
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

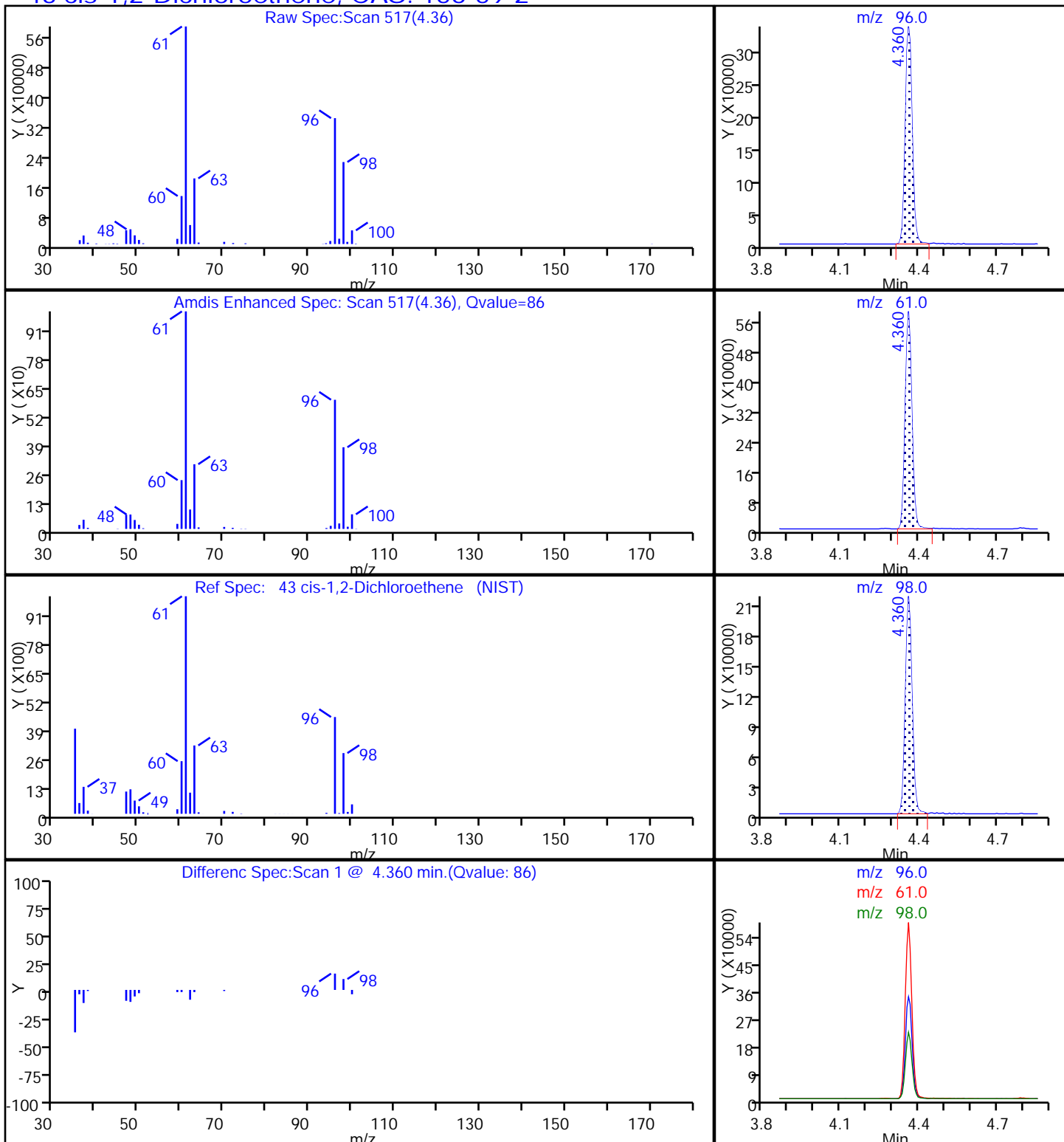
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

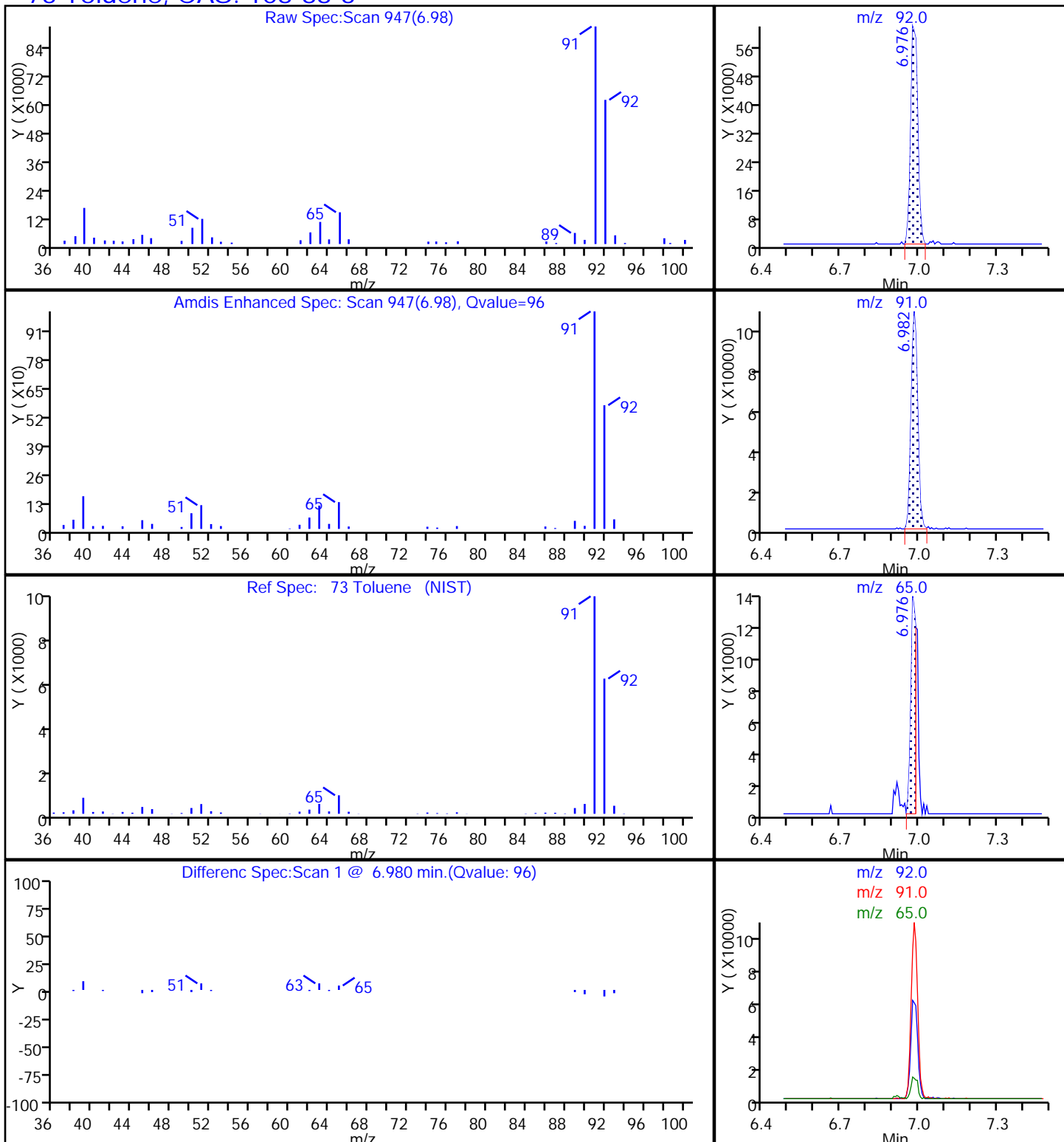
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

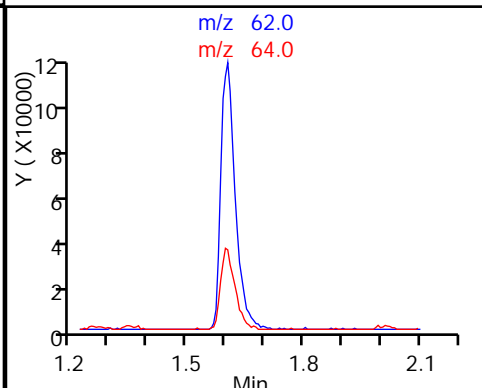
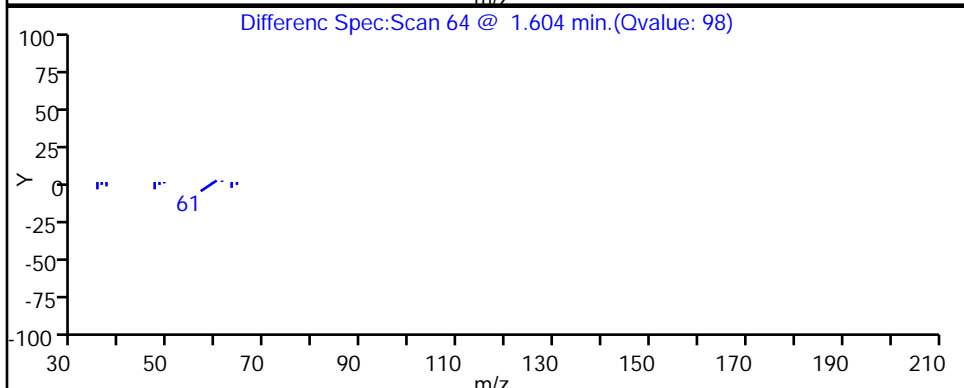
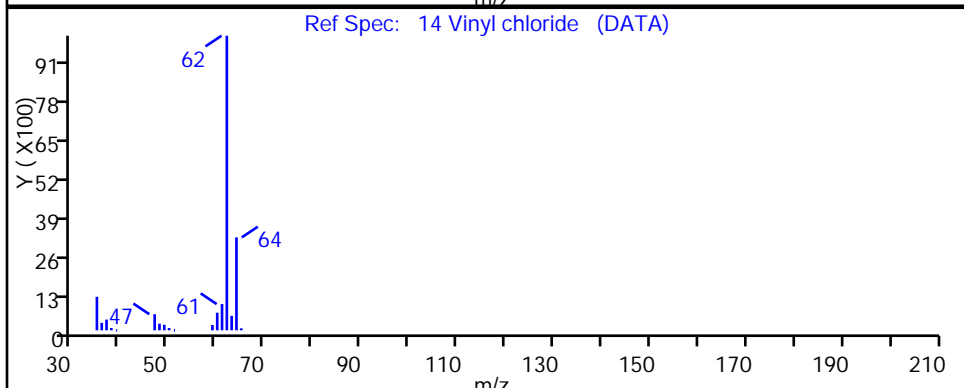
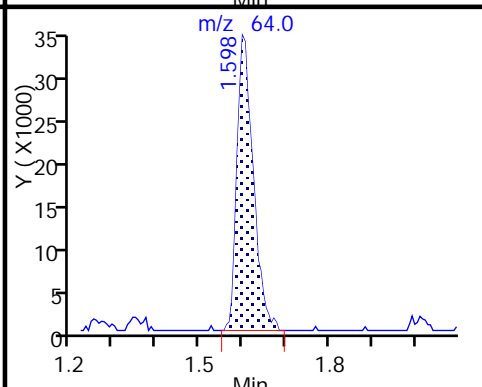
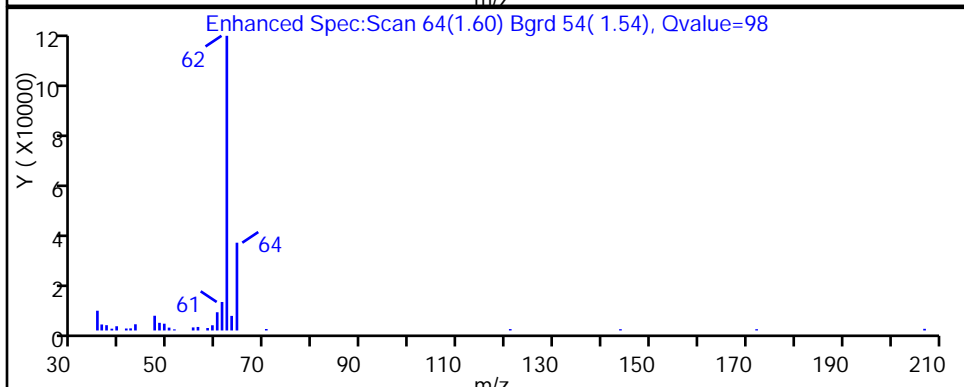
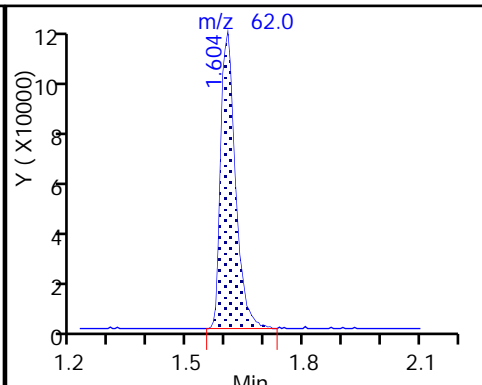
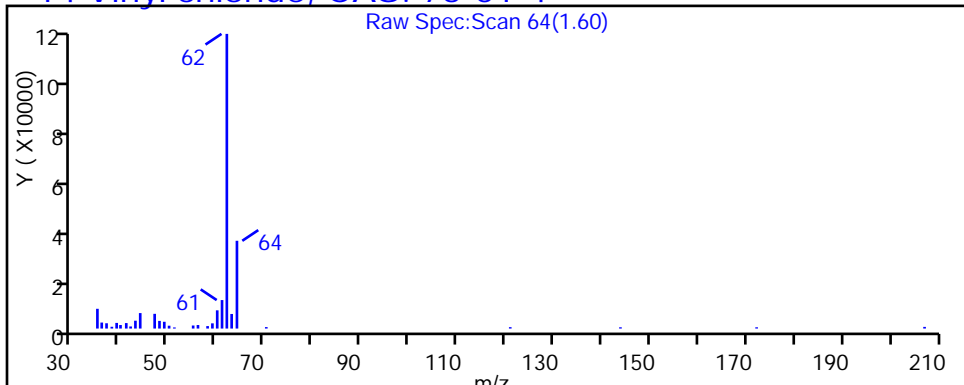
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

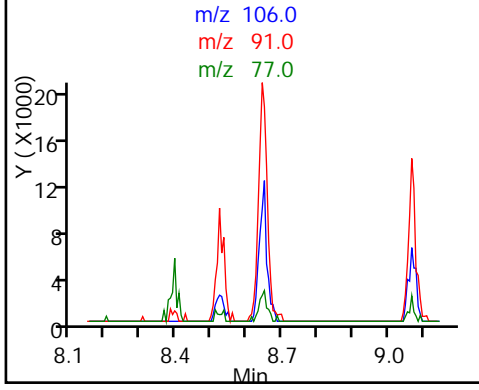
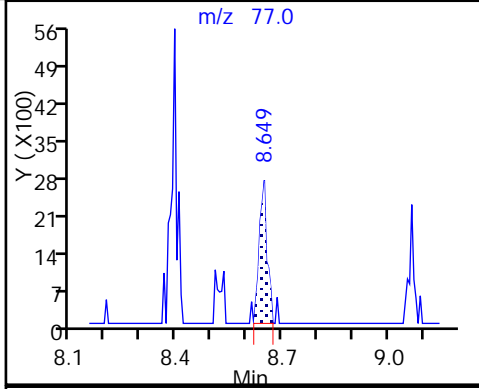
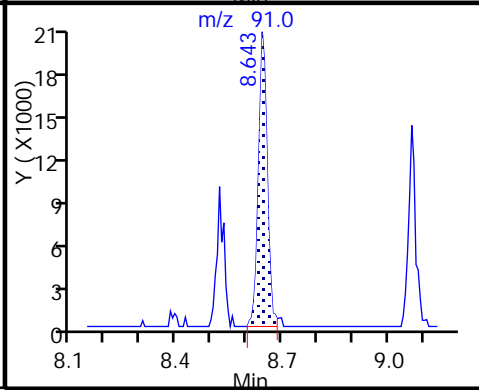
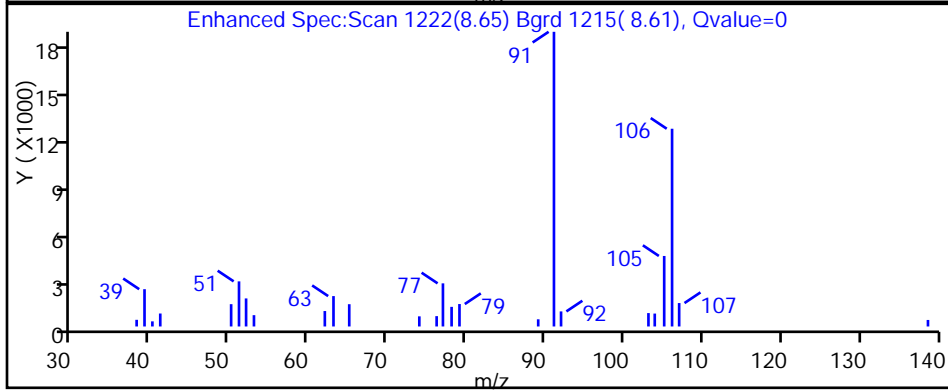
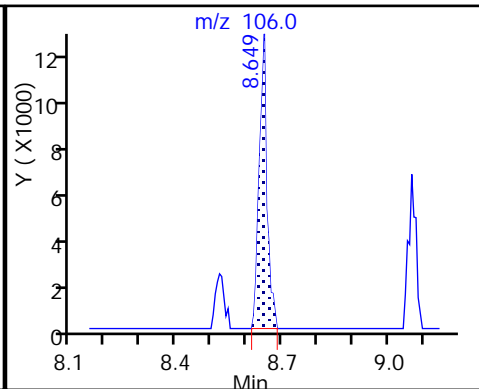
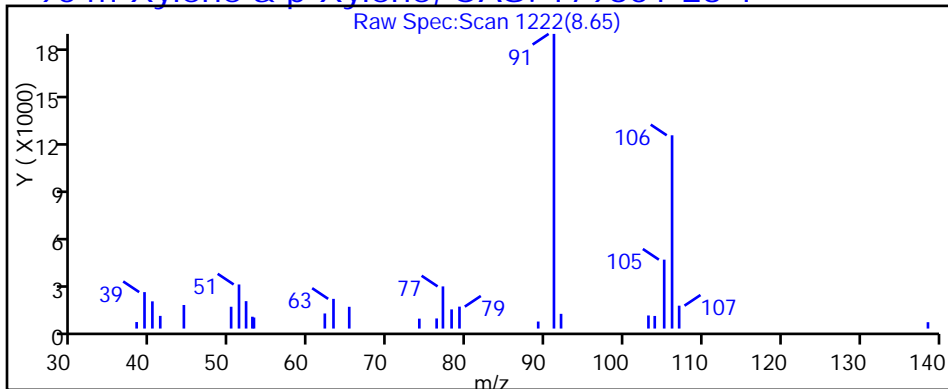
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

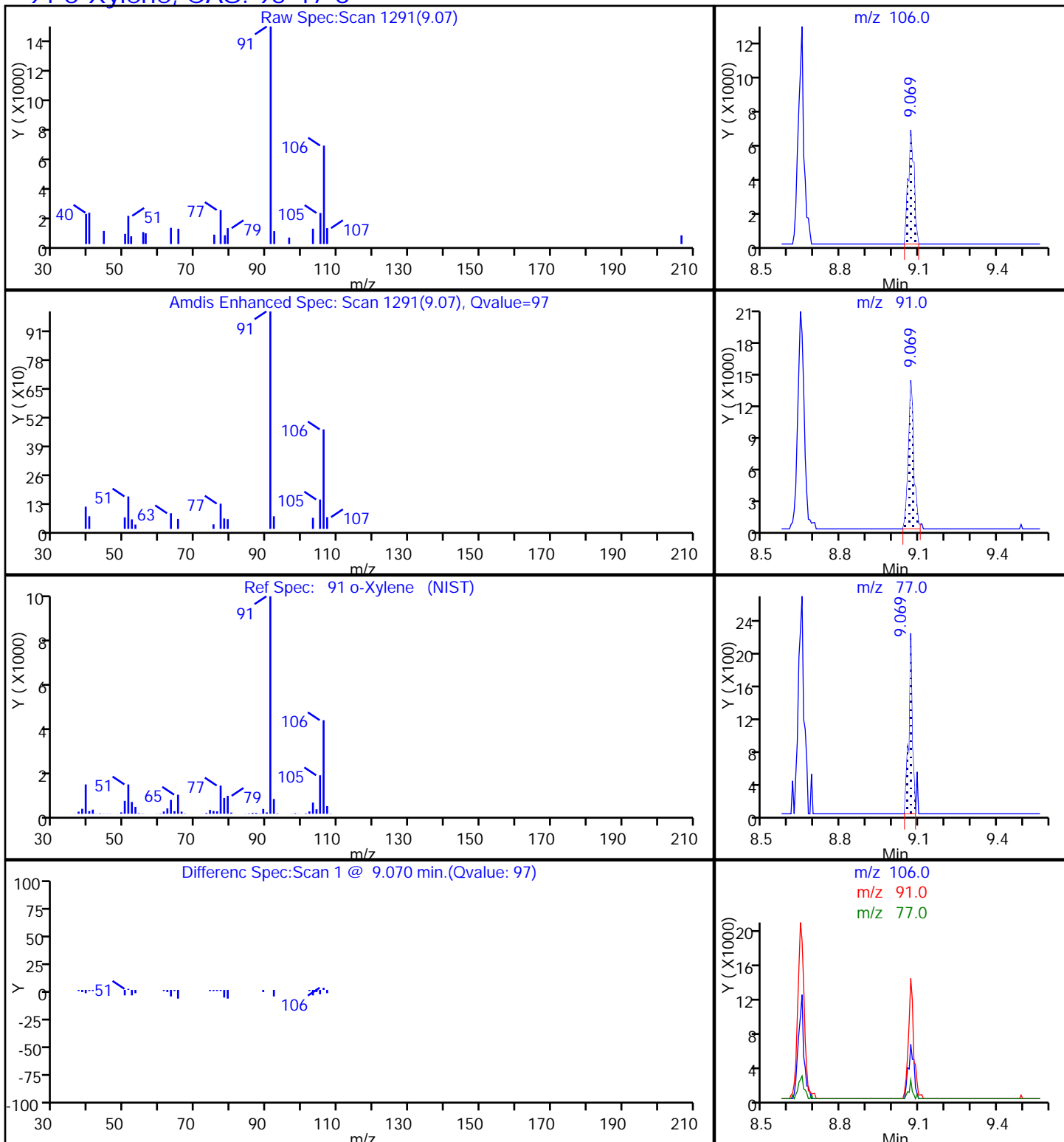
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

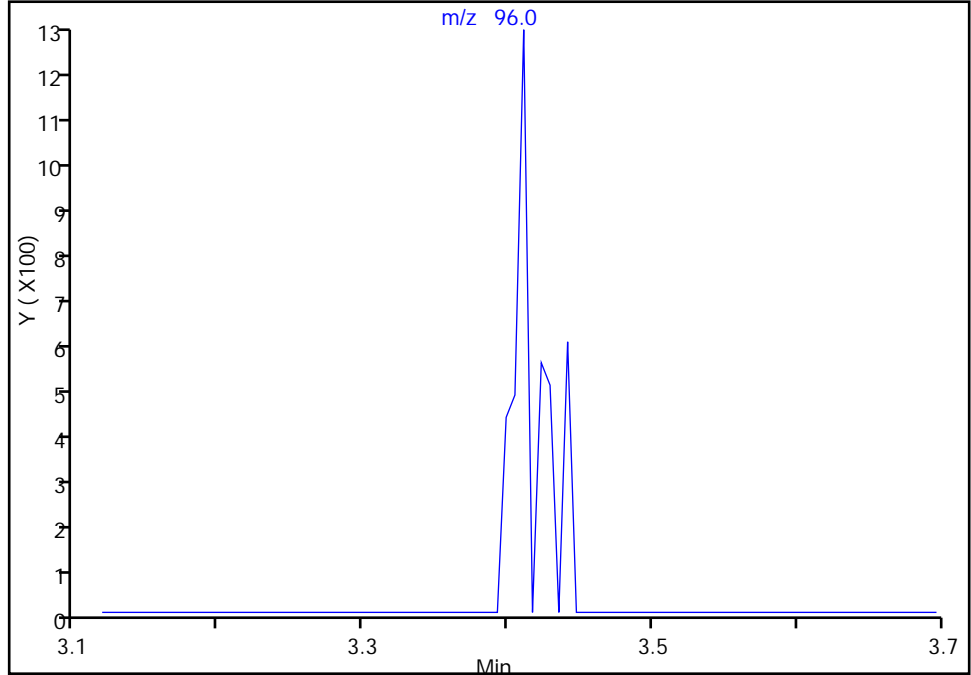
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D
Injection Date: 08-Jan-2018 12:57:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-5 Lab Sample ID: 480-129748-5
Client ID: ML-2I
Operator ID: AM/MS/RF ALS Bottle#: 3 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

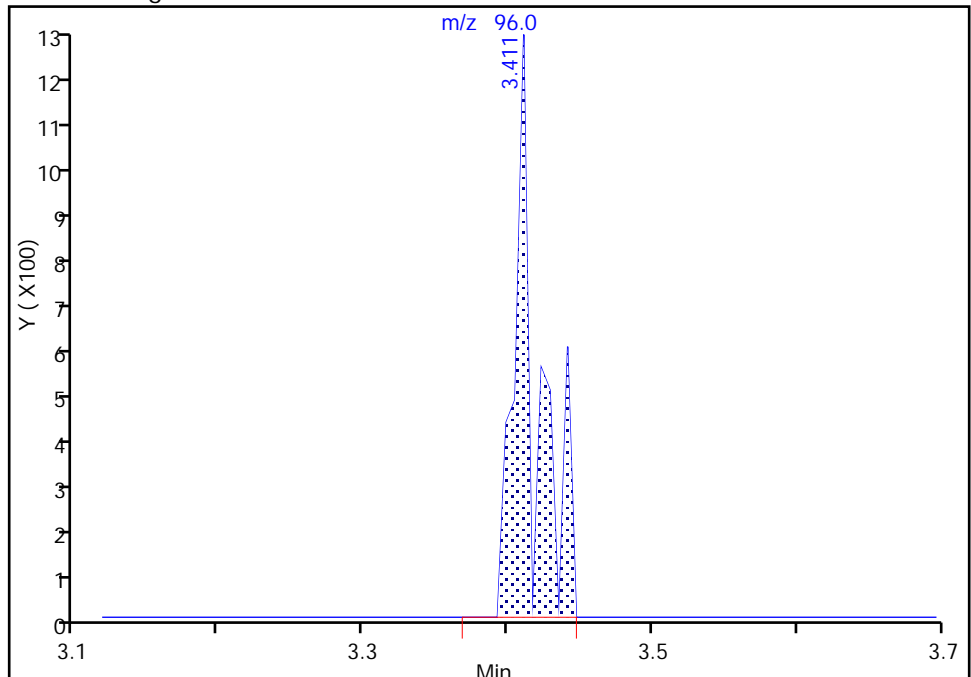
Not Detected
Expected RT: 3.41

Processing Integration Results



Manual Integration Results

RT: 3.41
Area: 1363
Amount: 0.173164
Amount Units: ug/L



Reviewer: sonkera, 08-Jan-2018 17:01:55
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

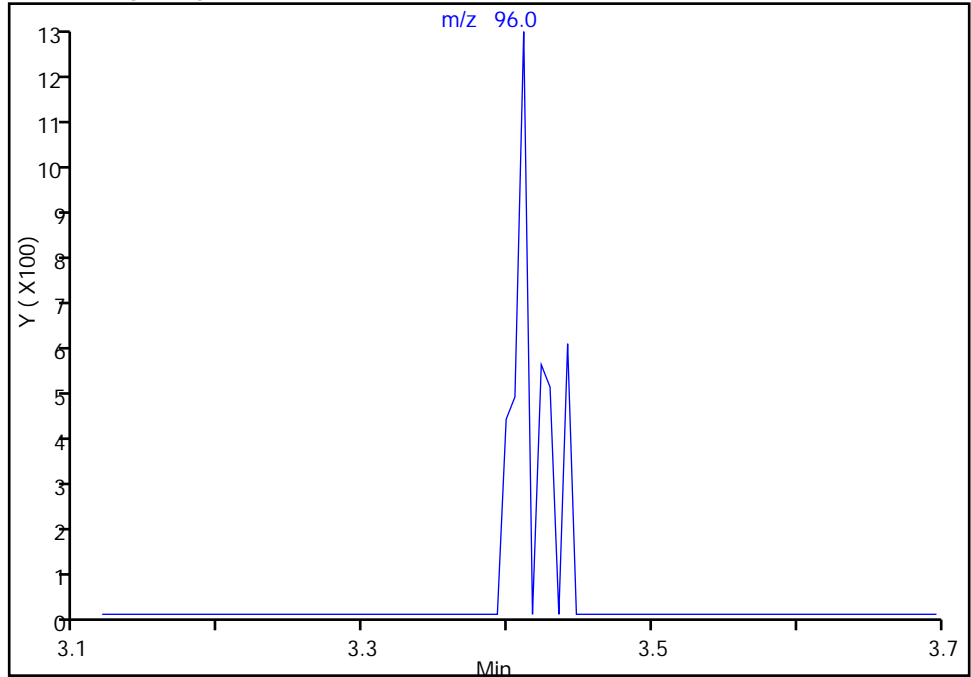
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D
Injection Date: 08-Jan-2018 12:57:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-5 Lab Sample ID: 480-129748-5
Client ID: ML-2I
Operator ID: AM/MS/RF ALS Bottle#: 3 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

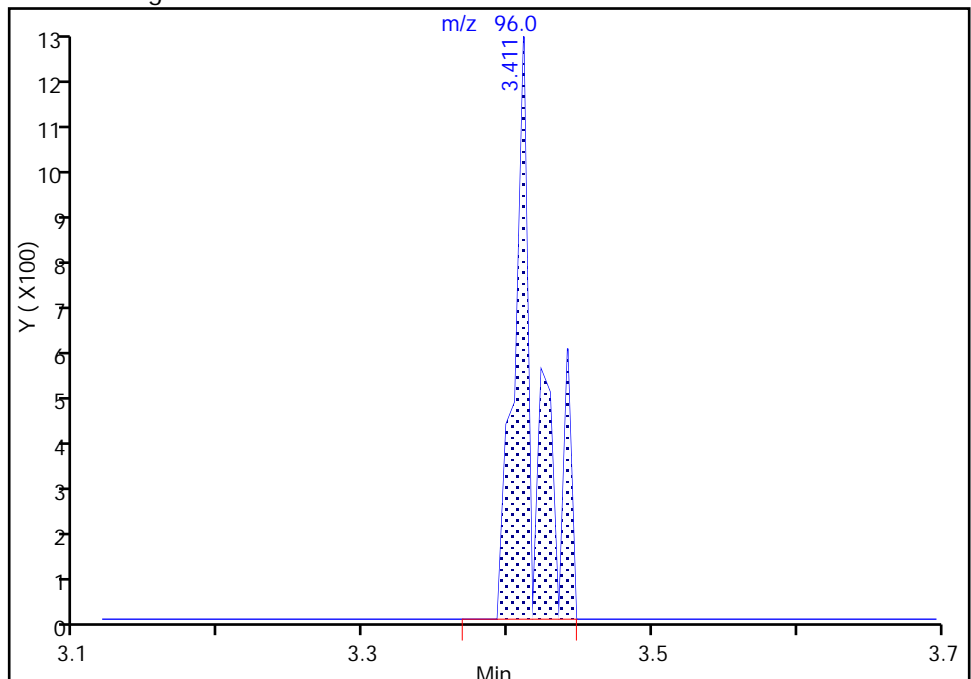
Not Detected
Expected RT: 3.41

Processing Integration Results



Manual Integration Results

RT: 3.41
Area: 1363
Amount: 0.173164
Amount Units: ug/L



Reviewer: sonkera, 08-Jan-2018 17:02:01

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

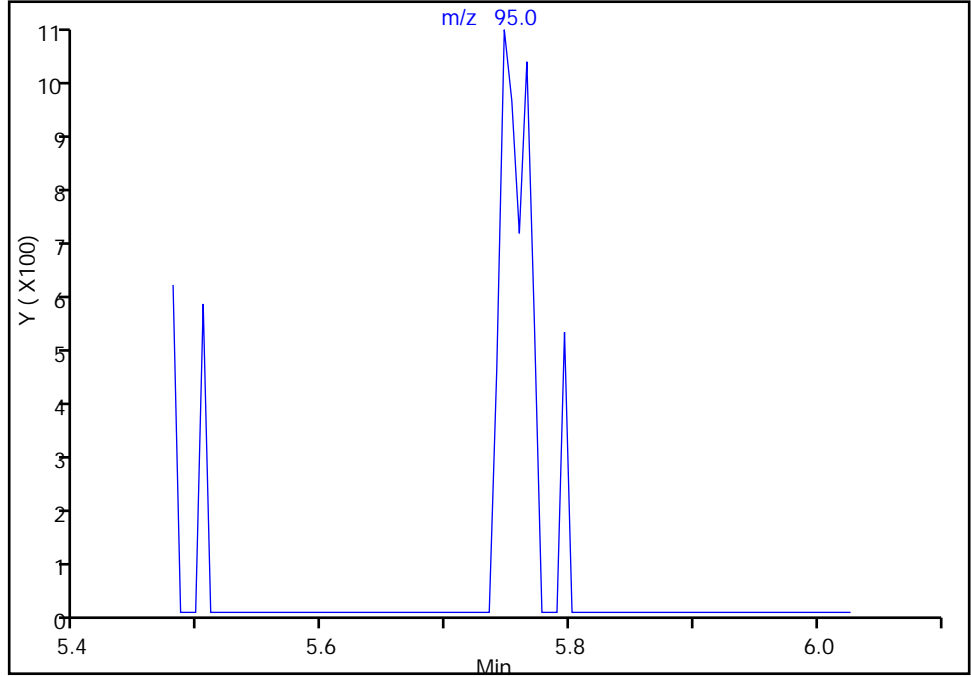
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D
Injection Date: 08-Jan-2018 12:57:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-5 Lab Sample ID: 480-129748-5
Client ID: ML-2I
Operator ID: AM/MS/RF ALS Bottle#: 3 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

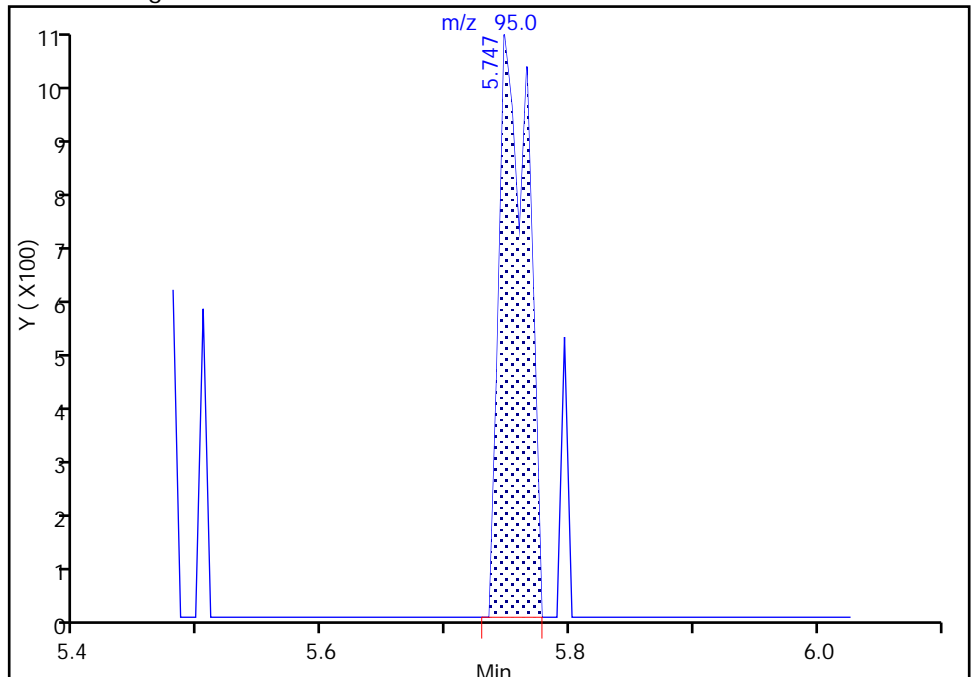
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 1718
Amount: 0.203466
Amount Units: ug/L



Reviewer: sonkera, 08-Jan-2018 17:02:36
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

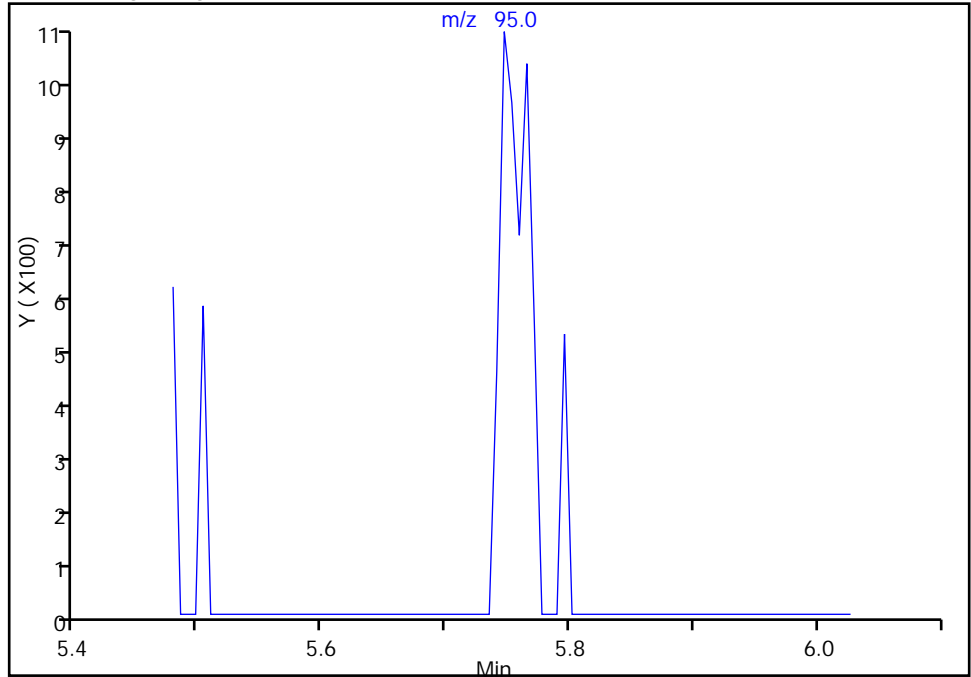
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Injection Date: 08-Jan-2018 12:57:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-5 Lab Sample ID: 480-129748-5
Client ID: ML-2I
Operator ID: AM/MS/RF ALS Bottle#: 3 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

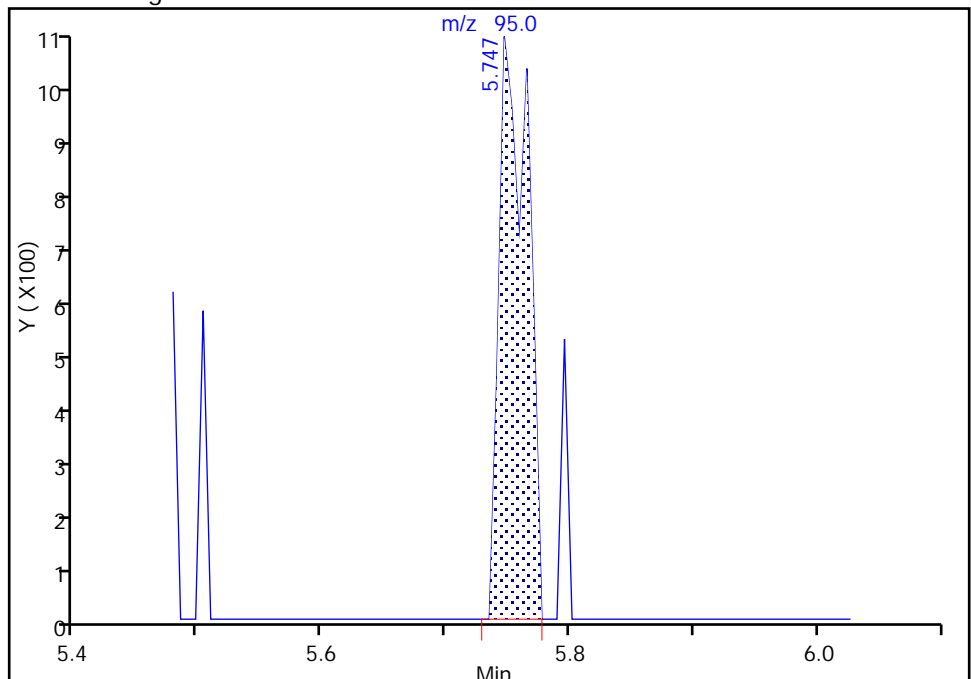
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 1718
Amount: 0.203466
Amount Units: ug/L



Reviewer: sonkera, 08-Jan-2018 17:02:46

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6130.D

Injection Date: 08-Jan-2018 12:57:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-5

Lab Sample ID: 480-129748-5

Client ID: ML-2I

Operator ID: AM/MS/RF

ALS Bottle#: 3 Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 100.0000

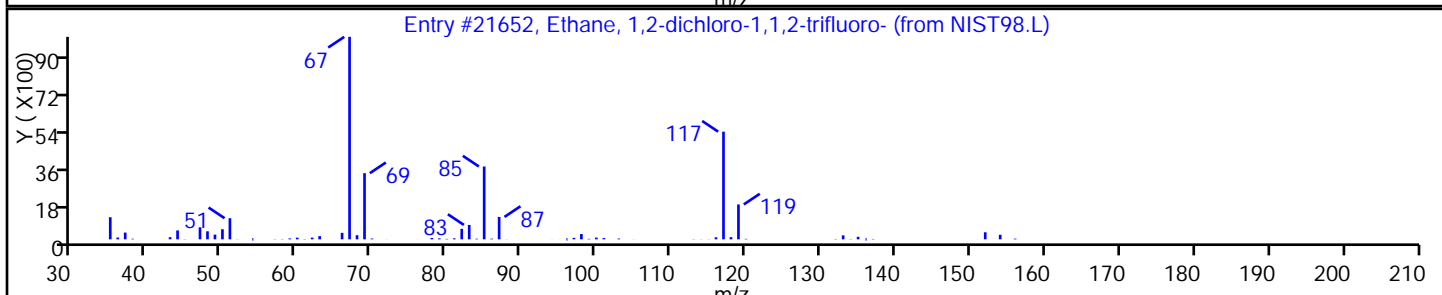
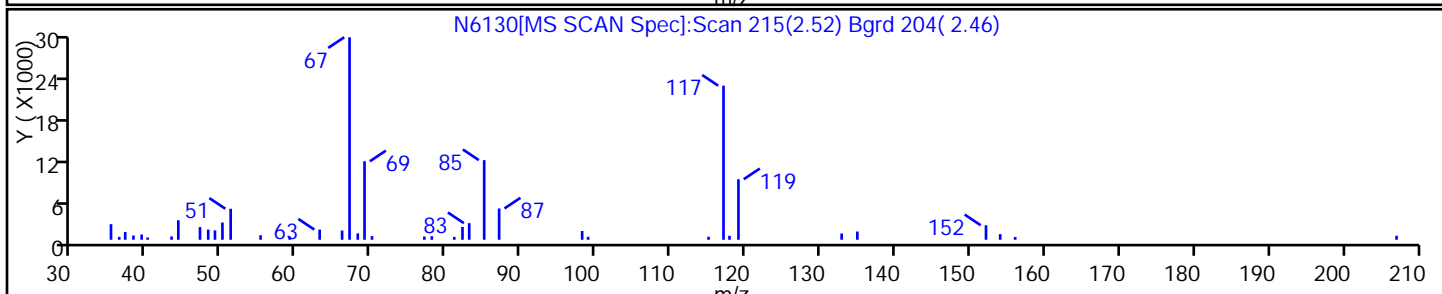
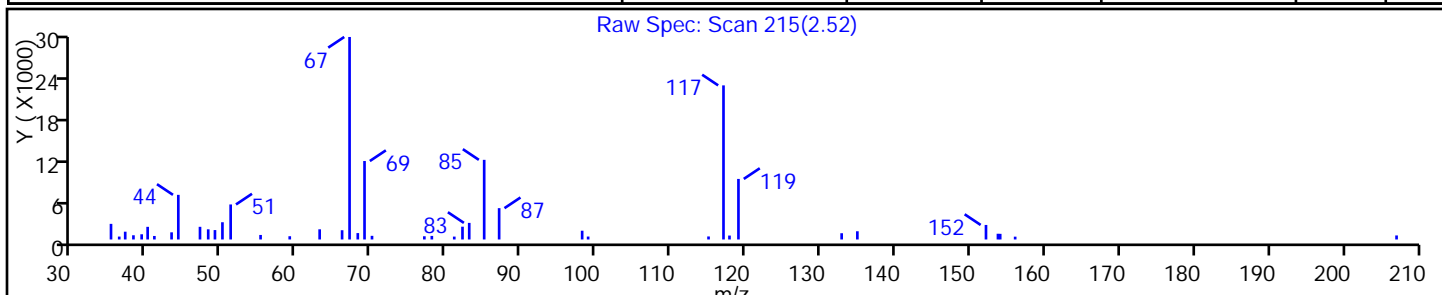
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	93



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-129748-6
 Matrix: Water Lab File ID: N6131.D
 Analysis Method: 8260C Date Collected: 01/03/2018 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	35		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24		2.0	0.62
75-34-3	1,1-Dichloroethane	140		2.0	0.76
75-35-4	1,1-Dichloroethene	2.2		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	2.8	J	20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	10	J *	20	6.0
71-43-2	Benzene	2.3		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	15		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	150		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-129748-6
 Matrix: Water Lab File ID: N6131.D
 Analysis Method: 8260C Date Collected: 01/03/2018 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	0.87	J	2.0	0.32
108-87-2	Methylcyclohexane	0.36	J	2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	2.0		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	4.1		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	16		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	130		2.0	1.8
1330-20-7	Xylenes, Total	1.6	J	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-129748-6
 Matrix: Water Lab File ID: N6131.D
 Analysis Method: 8260C Date Collected: 01/03/2018 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 9.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.52	9.2	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D
 Lims ID: 480-129748-I-6
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 08-Jan-2018 13:24:30 ALS Bottle#: 4 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-129748-I-6
 Misc. Info.: 480-0068404-012
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 17:09:12 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: sonkera Date: 08-Jan-2018 17:09:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	167288	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	690447	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	356659	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	92	226611	26.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	307285	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	839776	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	93	299319	25.6	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.507				ND	
14 Vinyl chloride	62	1.598	1.598	0.000	99	811476	65.6	
15 Bromomethane	94		1.902				ND	
16 Chloroethane	64	2.005	1.993	0.012	95	53765	7.40	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96	2.681	2.699	-0.006	92	7216	1.09	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.723	-0.012	93	75313	12.1	
23 Acetone	43	2.796	2.796	0.012	100	18993	5.04	M
25 Carbon disulfide	76		2.882				ND	
28 Methyl acetate	43		3.082				ND	
30 Methylene Chloride	84		3.174				ND	
32 Methyl tert-butyl ether	73	3.411	3.405	0.006	60	11790	0.4343	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	91	15995	2.05	
36 1,1-Dichloroethane	63	3.812	3.818	-0.006	97	1243632	70.1	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	663369	73.0	
44 2-Butanone (MEK)	43	4.396	4.414	0.012	89	11095	1.38	
50 Chloroform	83	4.670	4.670	0.006	7	997	0.0670	7
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	217794	17.7	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.938				ND	
55 Benzene	78	5.145	5.145	0.000	93	35799	1.13	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95	5.747	5.747	-0.006	93	67815	8.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.881	5.893	-0.012	80	2470	0.1823	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58	6.836	6.836	0.012	21	1461	0.2279	
73 Toluene	92	6.982	6.988	0.000	98	22233	0.9787	
75 trans-1,3-Dichloropropene	75		7.244				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166	7.529	7.523	0.006	88	3106	0.3139	
82 2-Hexanone	43		7.663				ND	
83 Chlorodibromomethane	129		7.828				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91	8.527	8.521	0.006	96	17573	0.4073	
90 m-Xylene & p-Xylene	106	8.649	8.643	0.006	0	13467	0.7910	
91 o-Xylene	106	9.075	9.075	0.006	1	4364	0.2561	M
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105	9.458	9.458	0.000	93	9819	0.2335	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		1.05	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D
 Lims ID: 480-129748-I-6
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 08-Jan-2018 13:24:30 ALS Bottle#: 4 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-129748-I-6
 Misc. Info.: 480-0068404-012
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 17:09:12 Calib Date: 28-Dec-2017 23:52:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015
 First Level Reviewer: sonkera Date: 08-Jan-2018 17:09:12

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.516	384151	4.60	147		Unknown			

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 147 Fluorobenzene (IS)	5.406	2089812	25.0

QC Flag Legend

Processing Flags

Reagents:

N_8260_Surr_00311 Amount Added: 1.00 Units: uL Run Reagent
 N 8260 IS_00101 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Operator ID: AM/MS/RF

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Worklist Smp#: 12

Client ID: ML-2D

Purge Vol: 5.000 mL

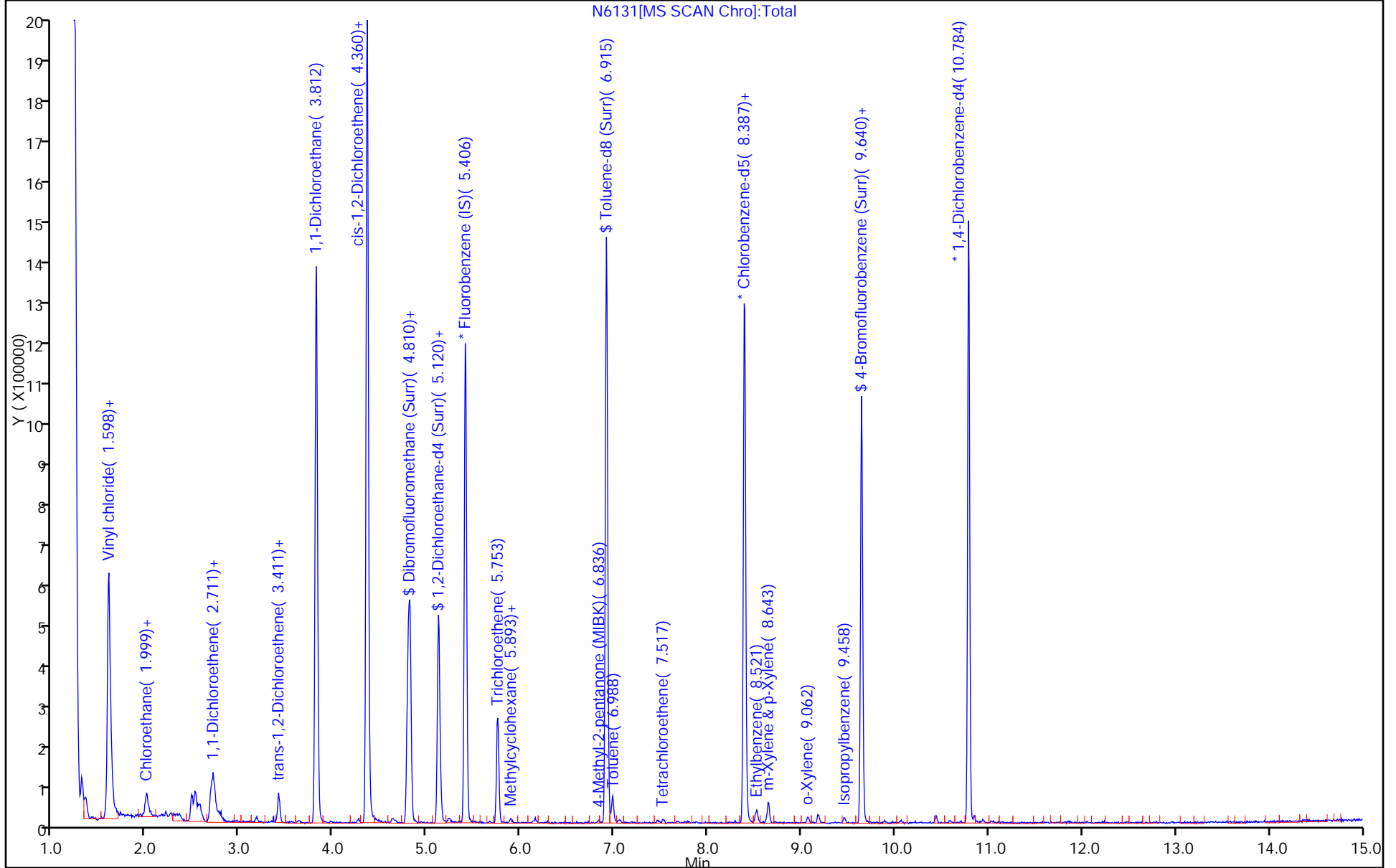
Dil. Factor: 2.0000

ALS Bottle#: 4

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

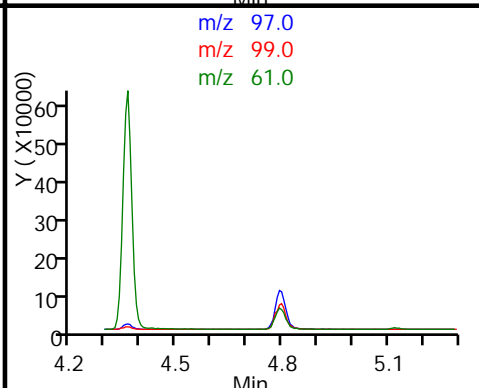
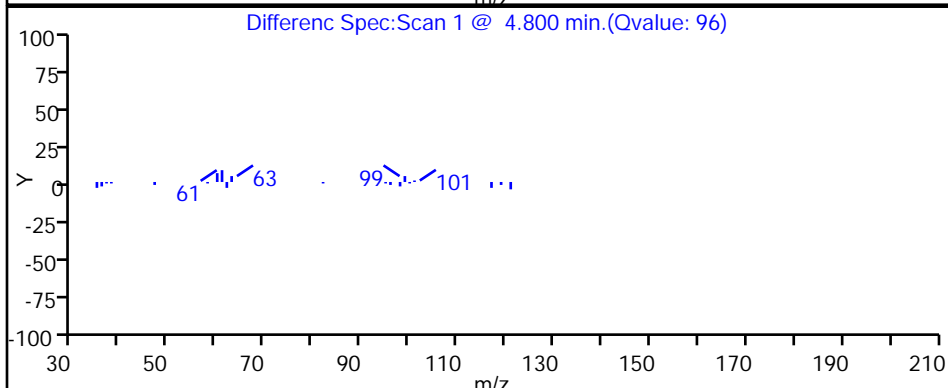
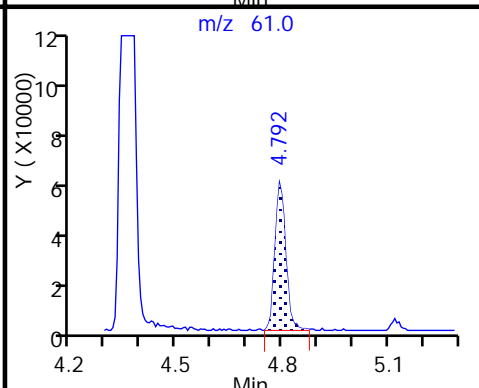
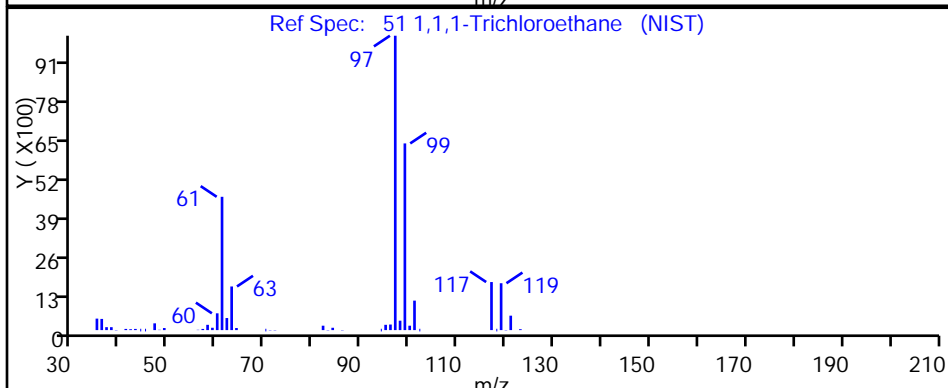
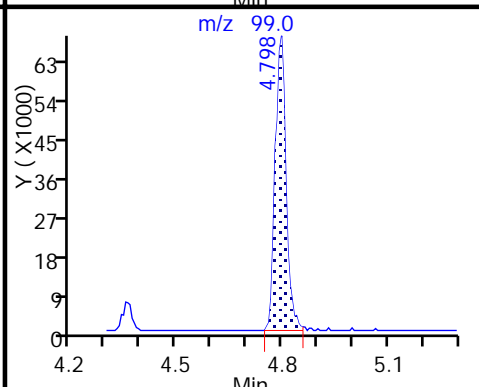
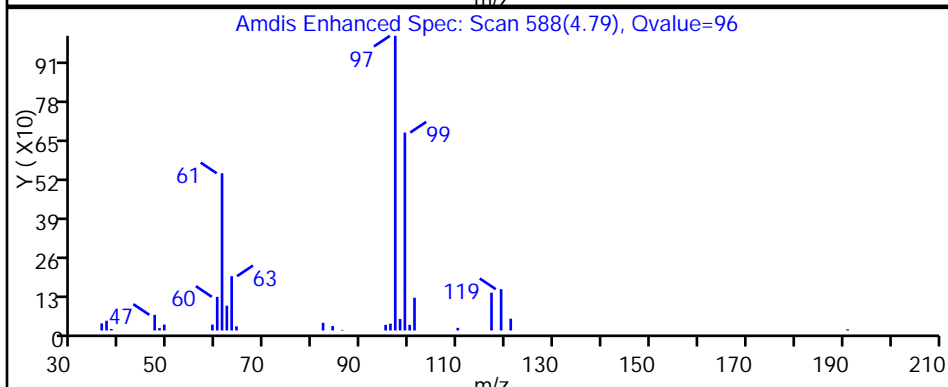
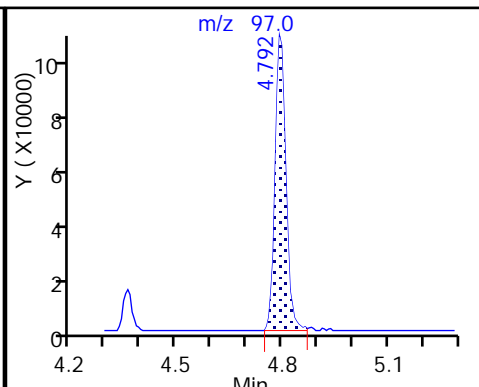
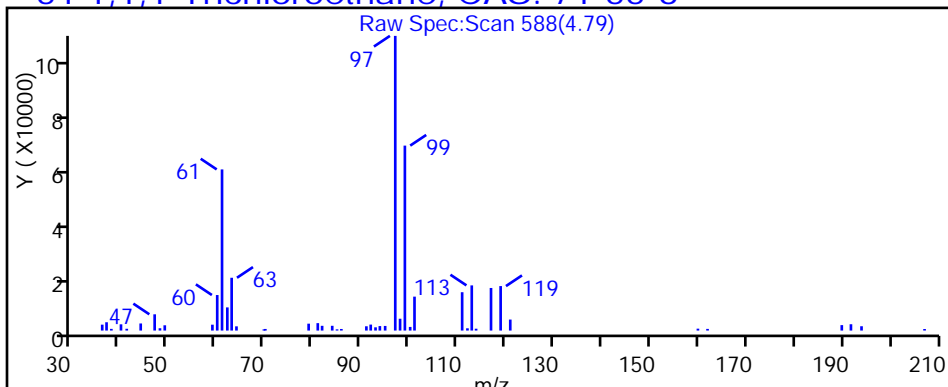
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

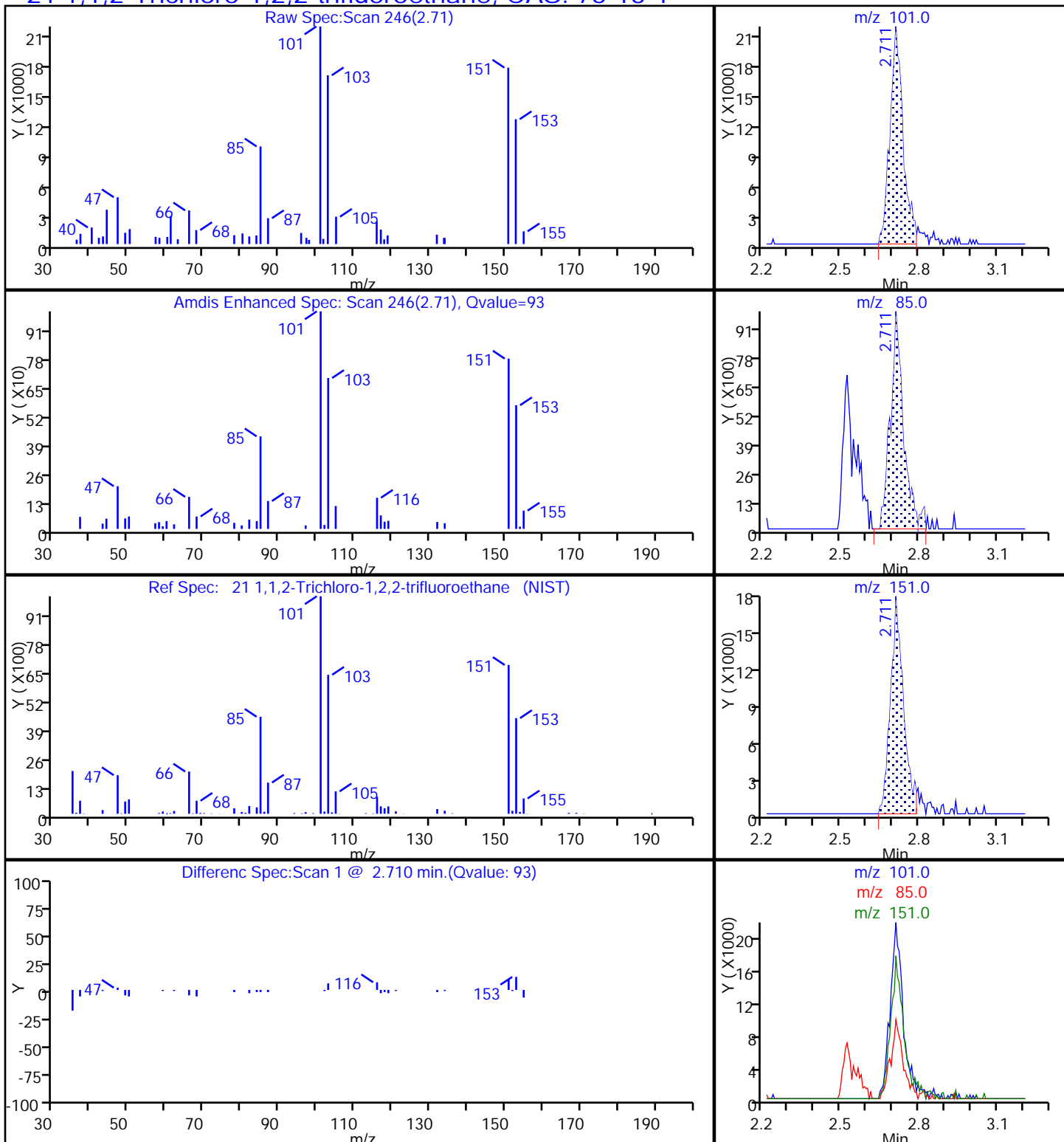
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

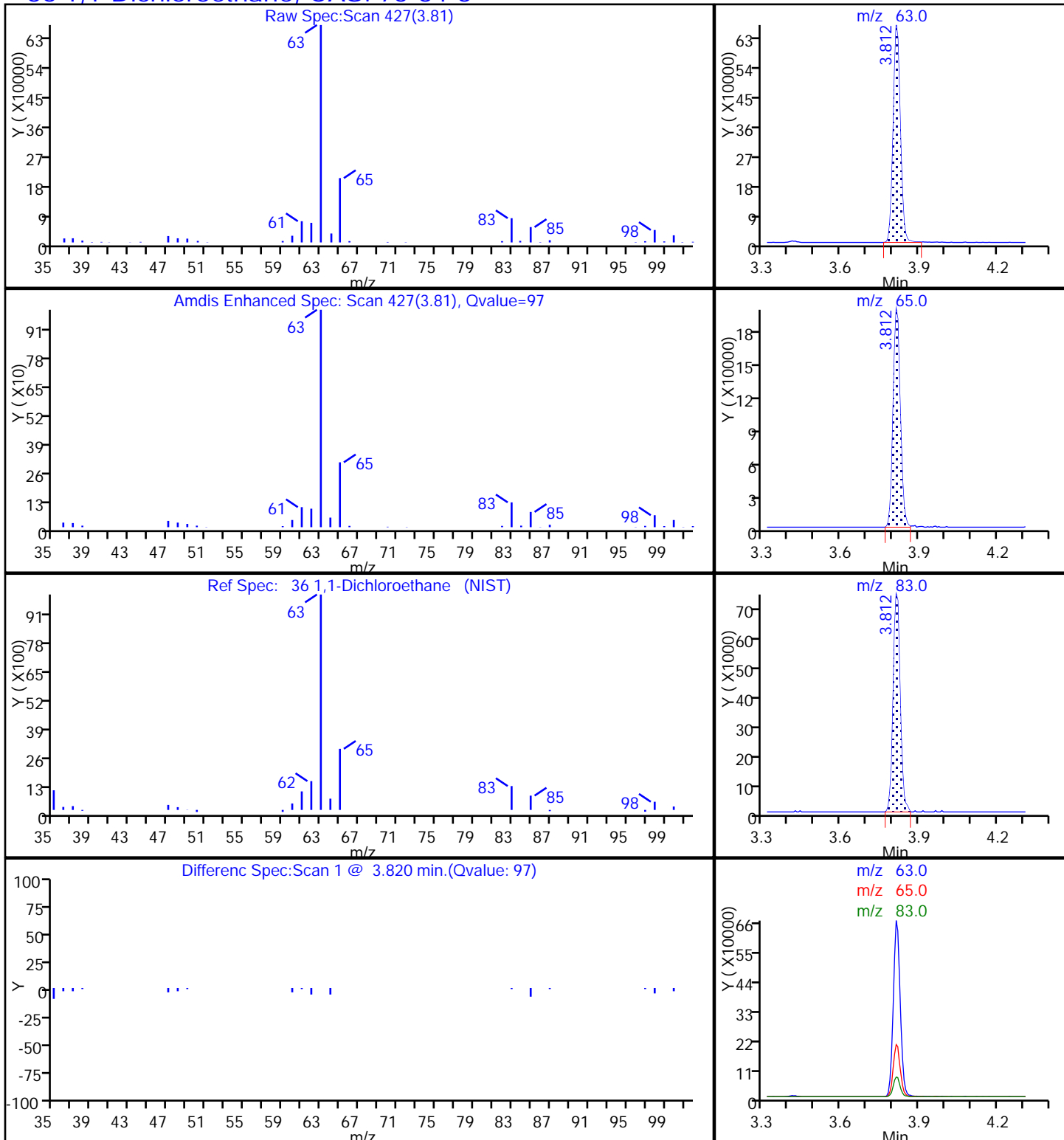
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

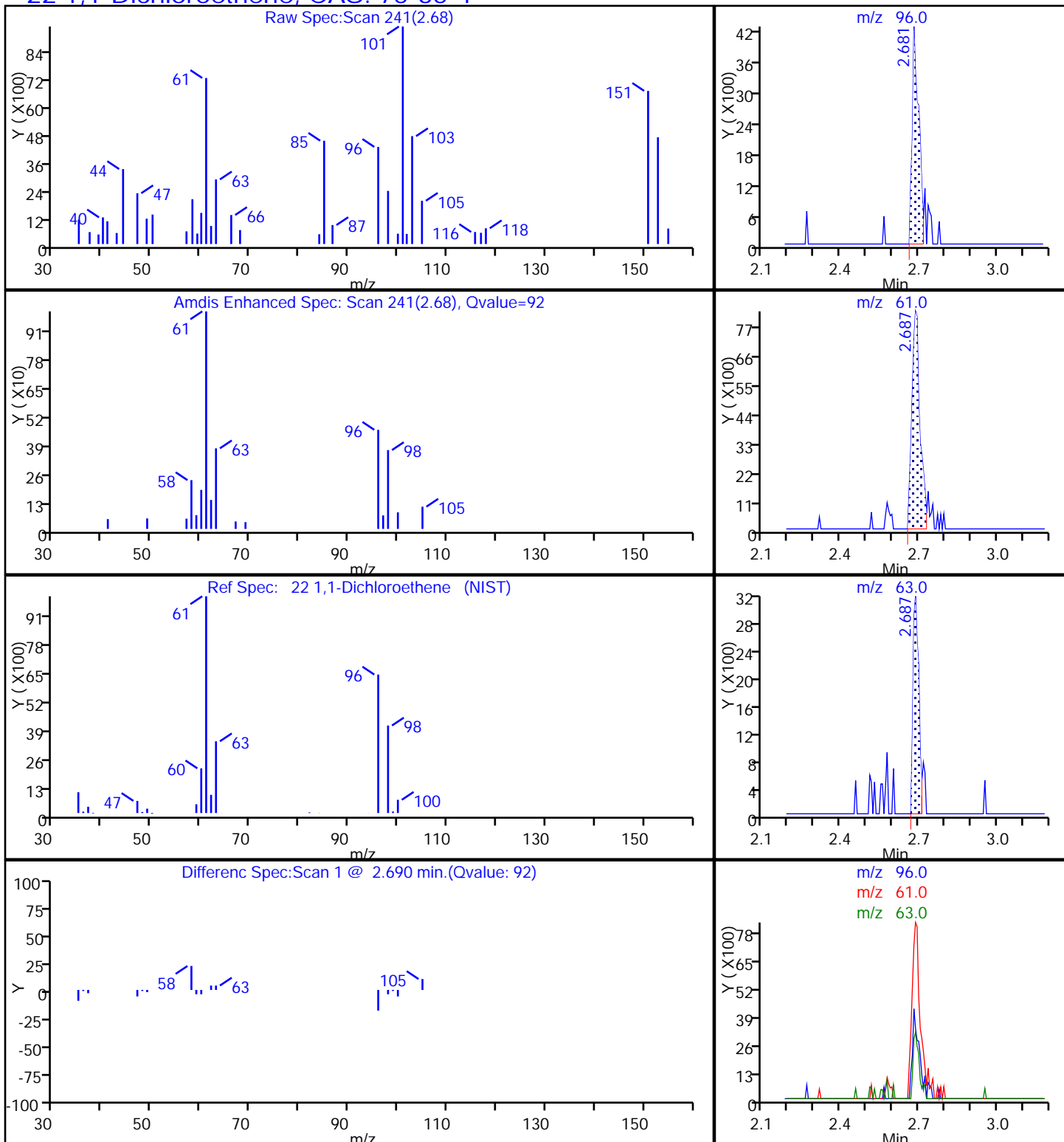
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

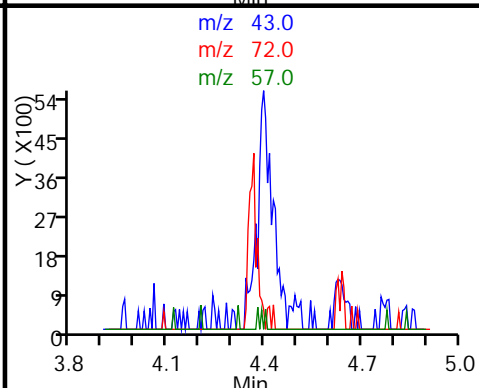
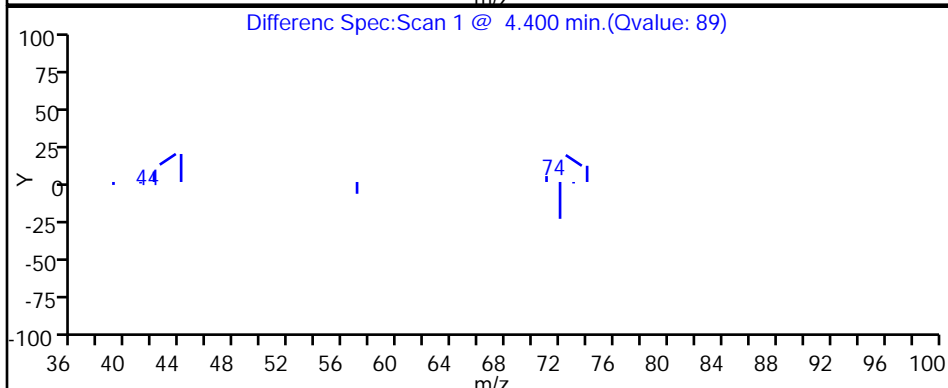
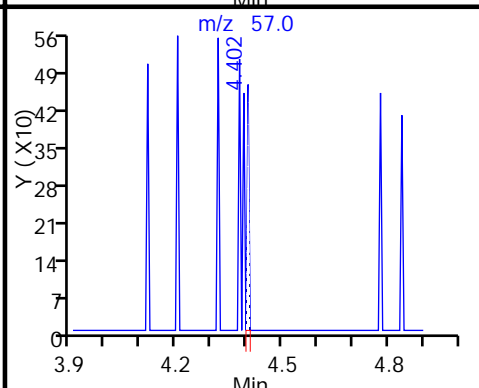
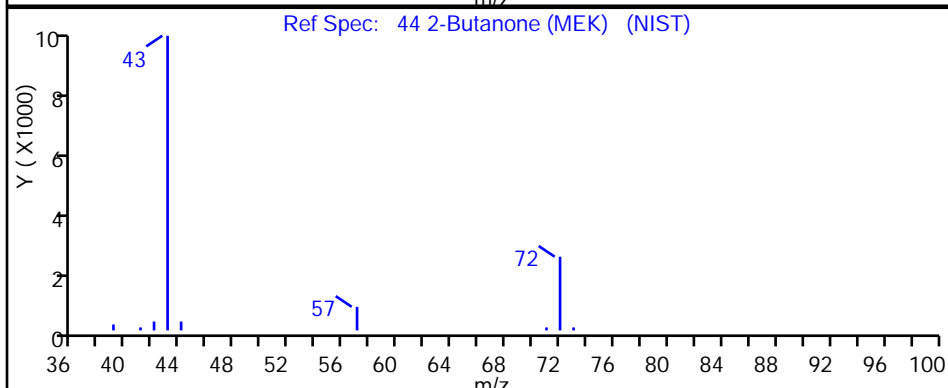
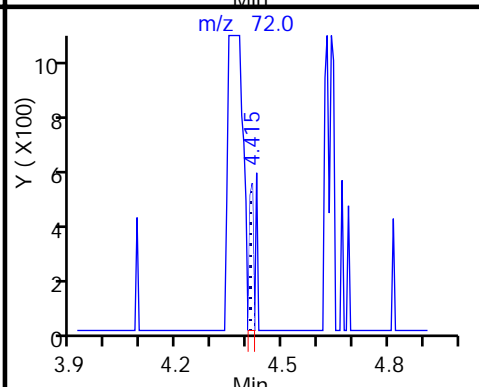
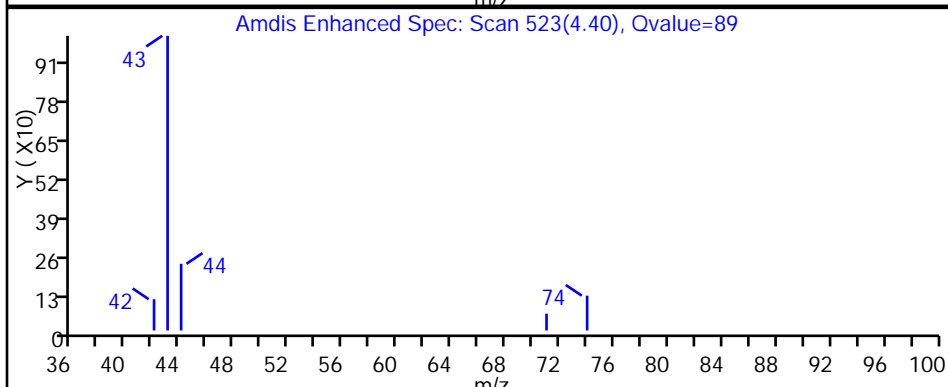
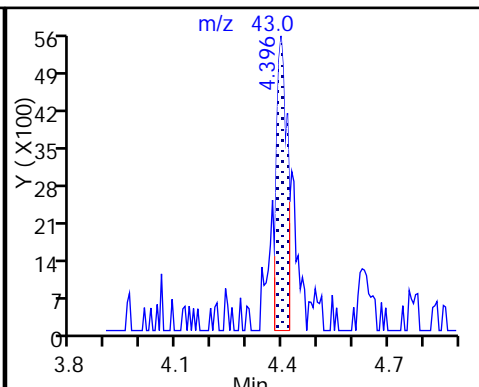
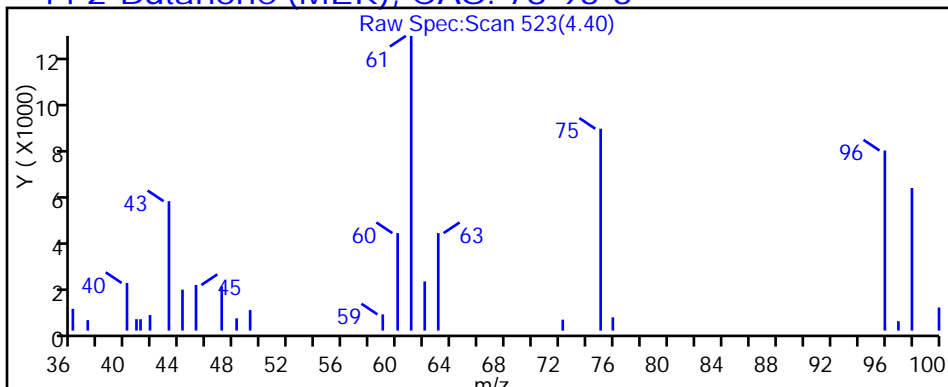
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

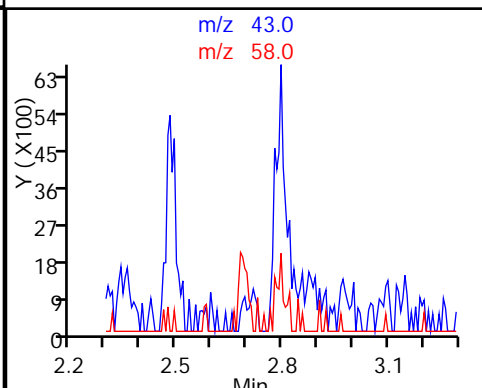
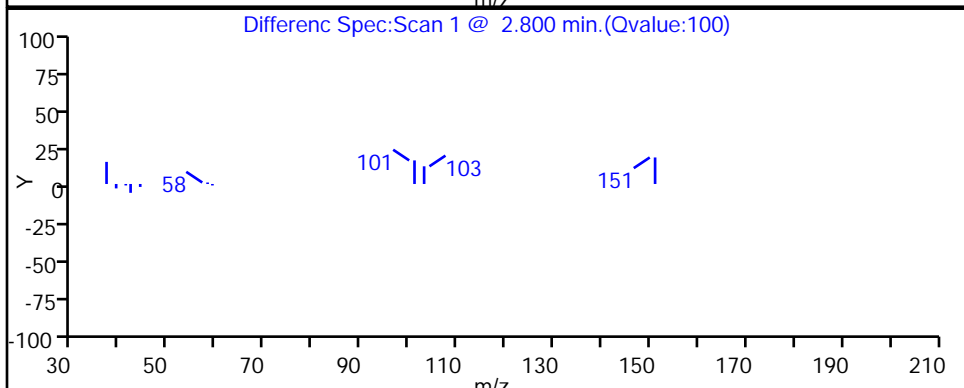
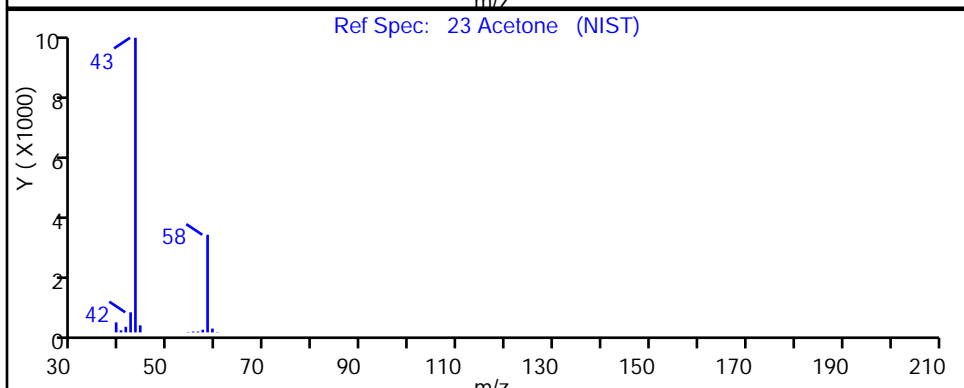
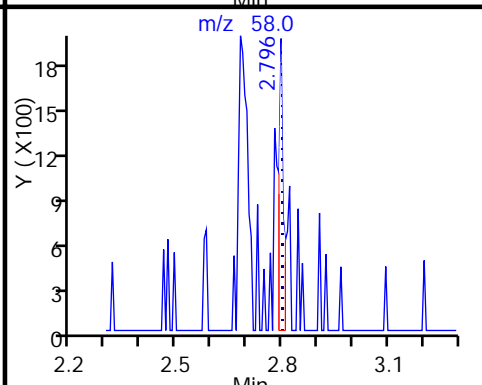
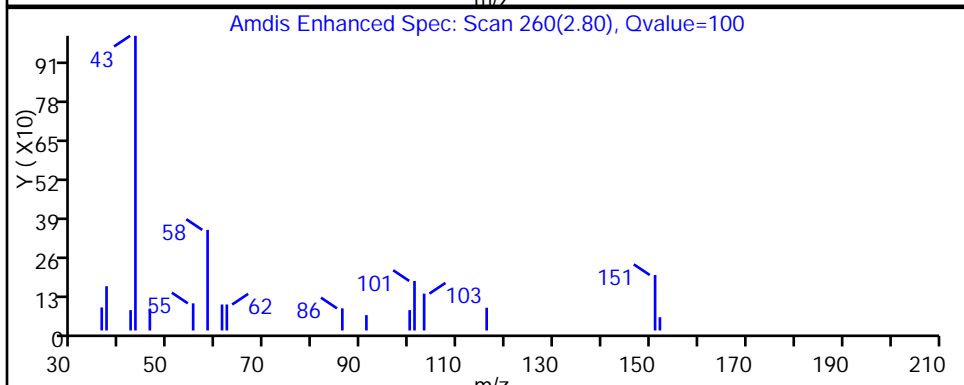
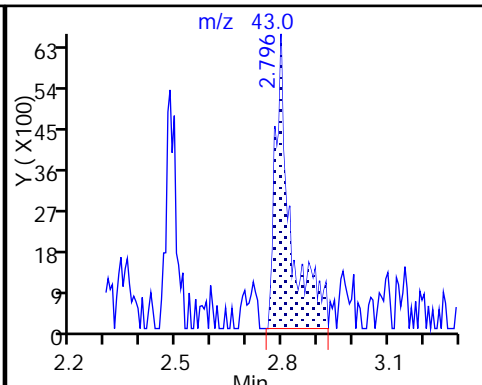
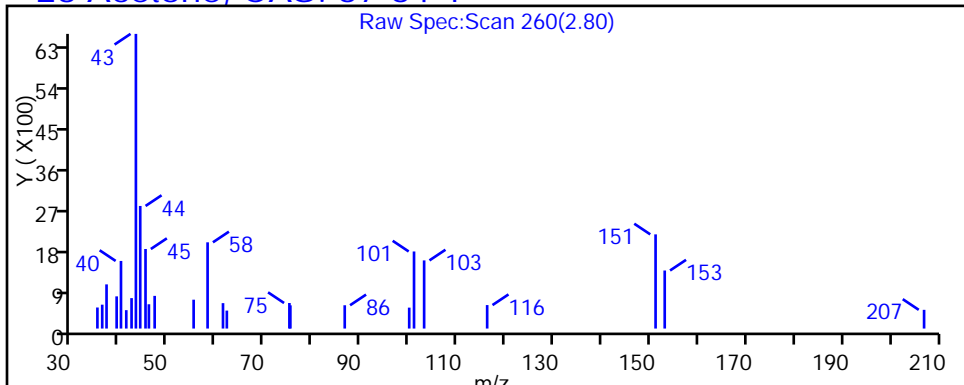
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

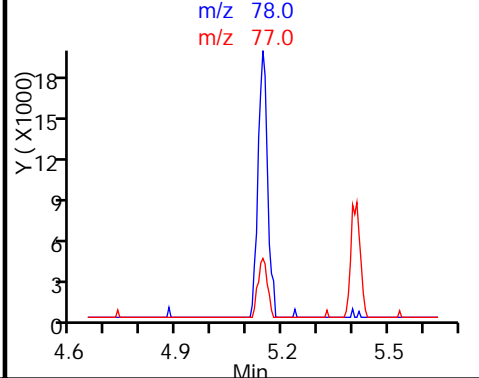
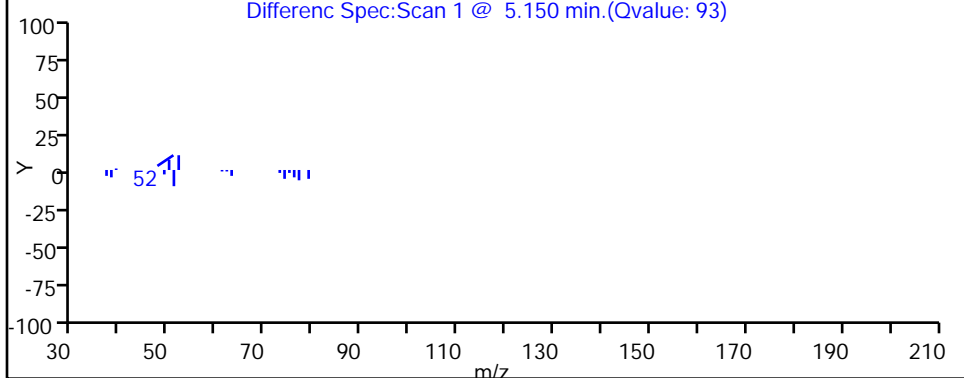
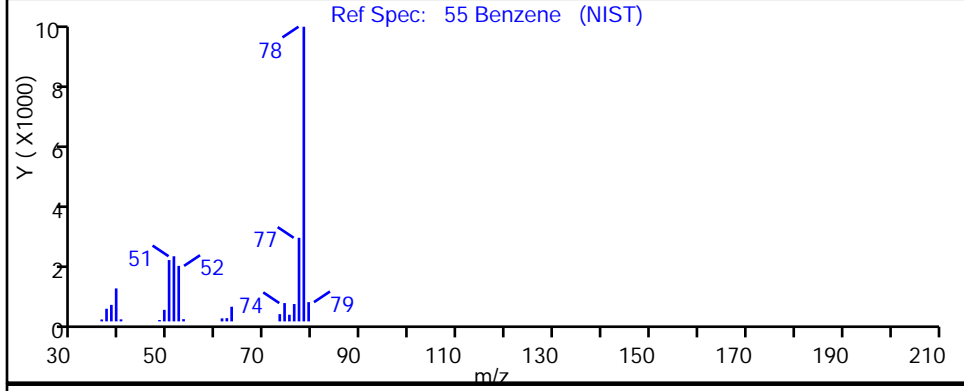
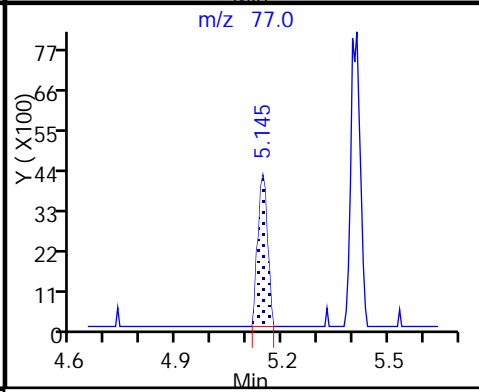
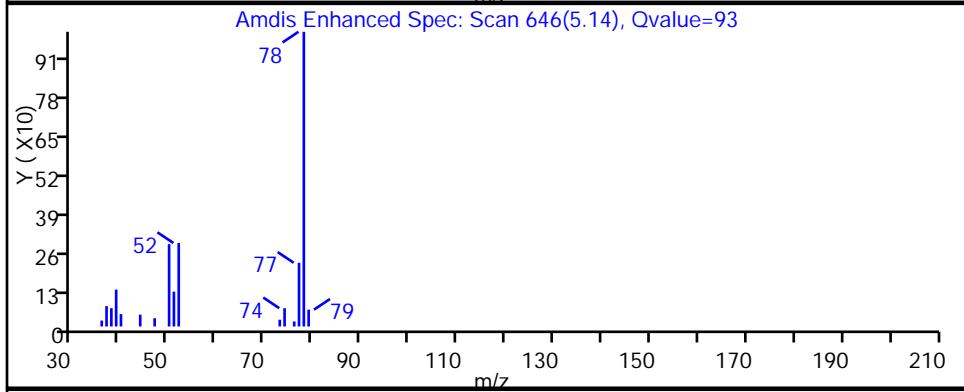
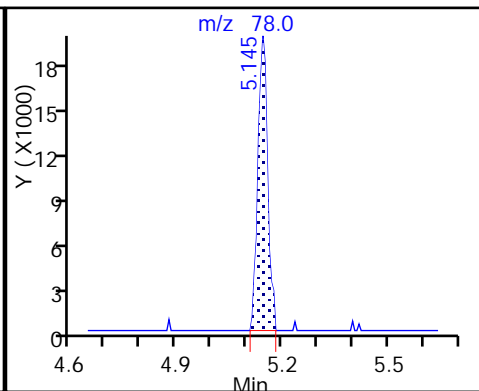
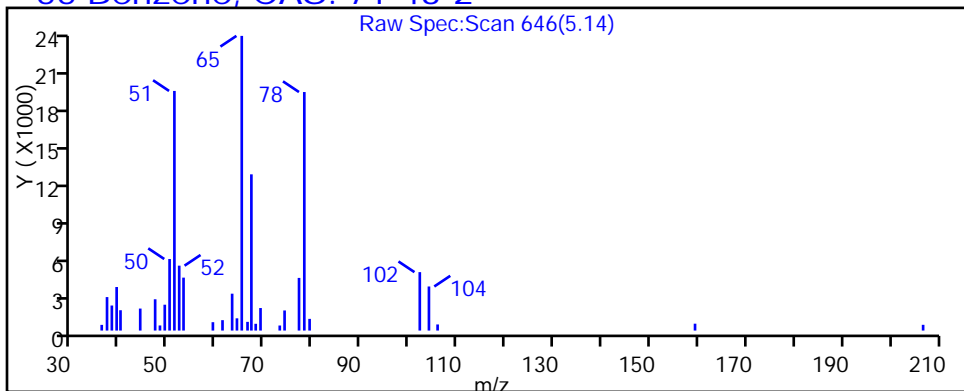
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

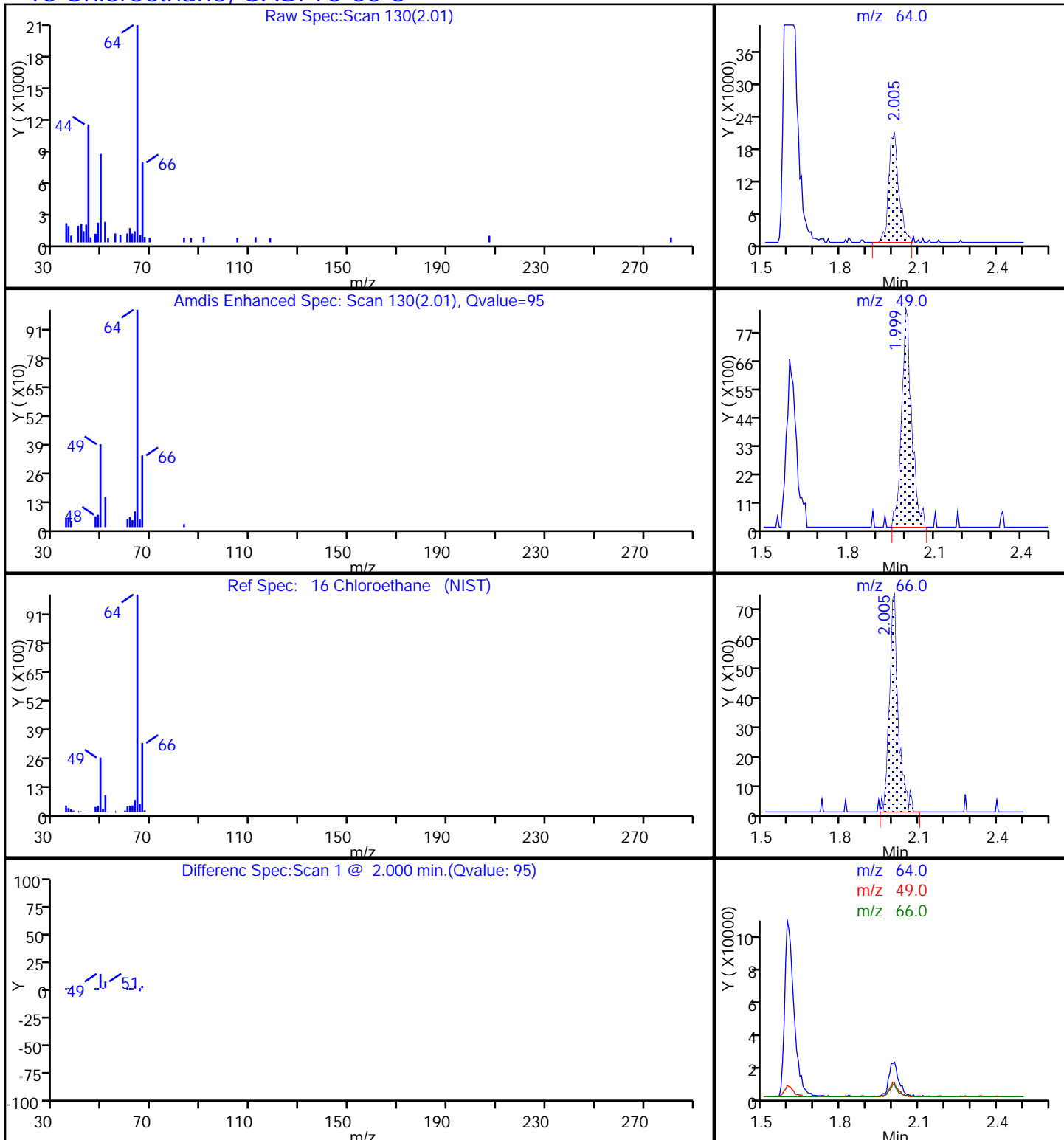
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

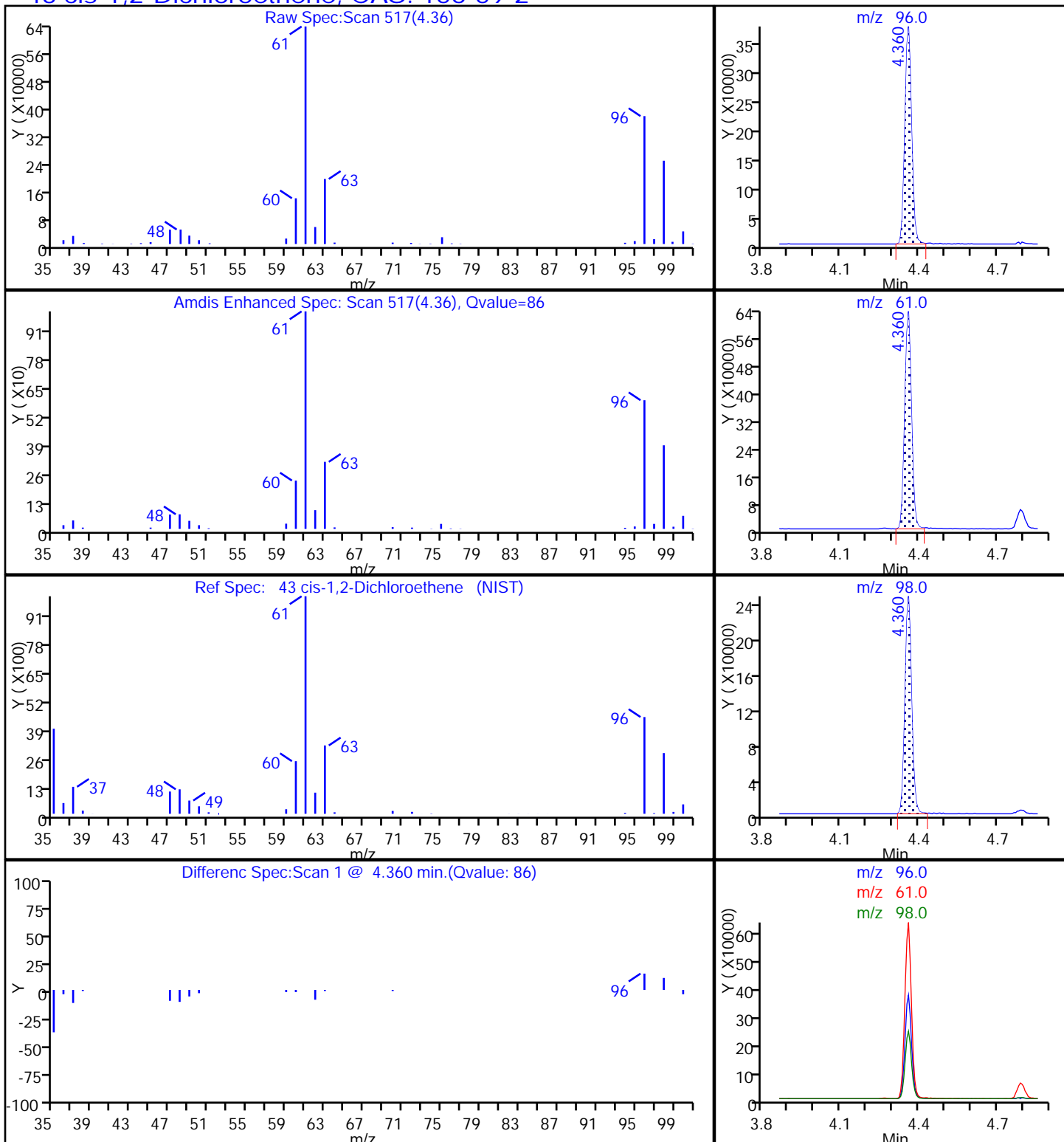
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

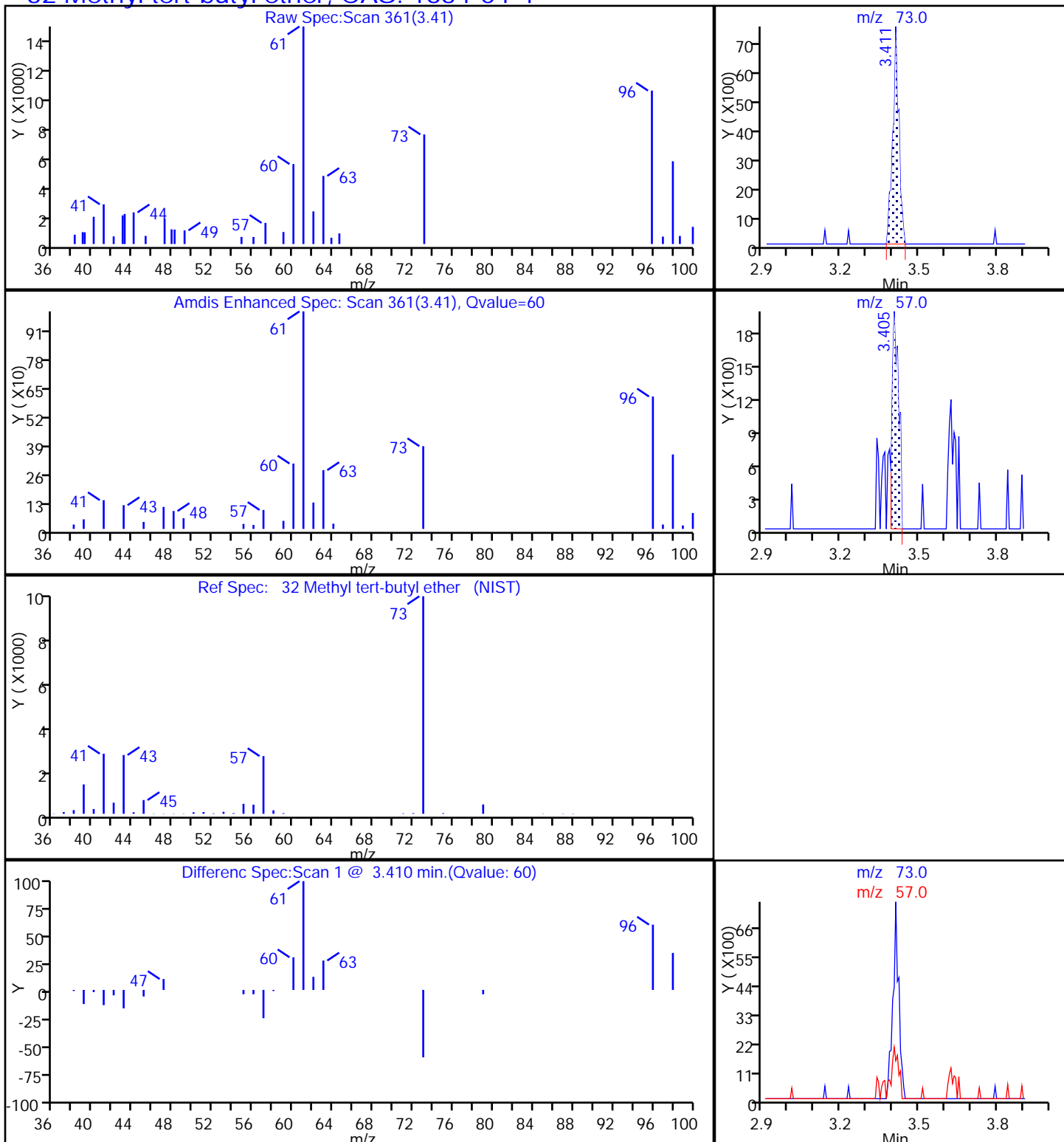
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

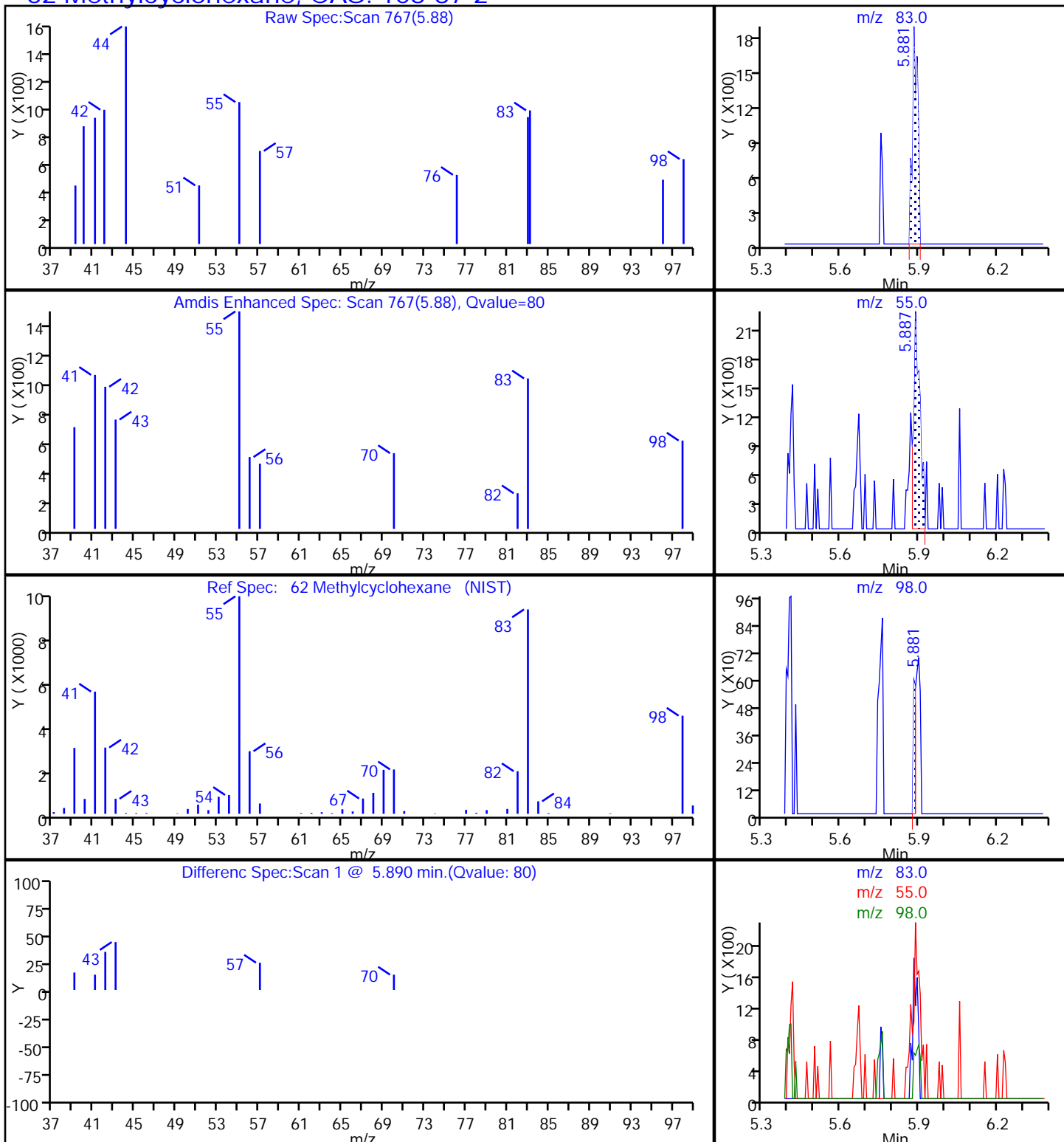
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

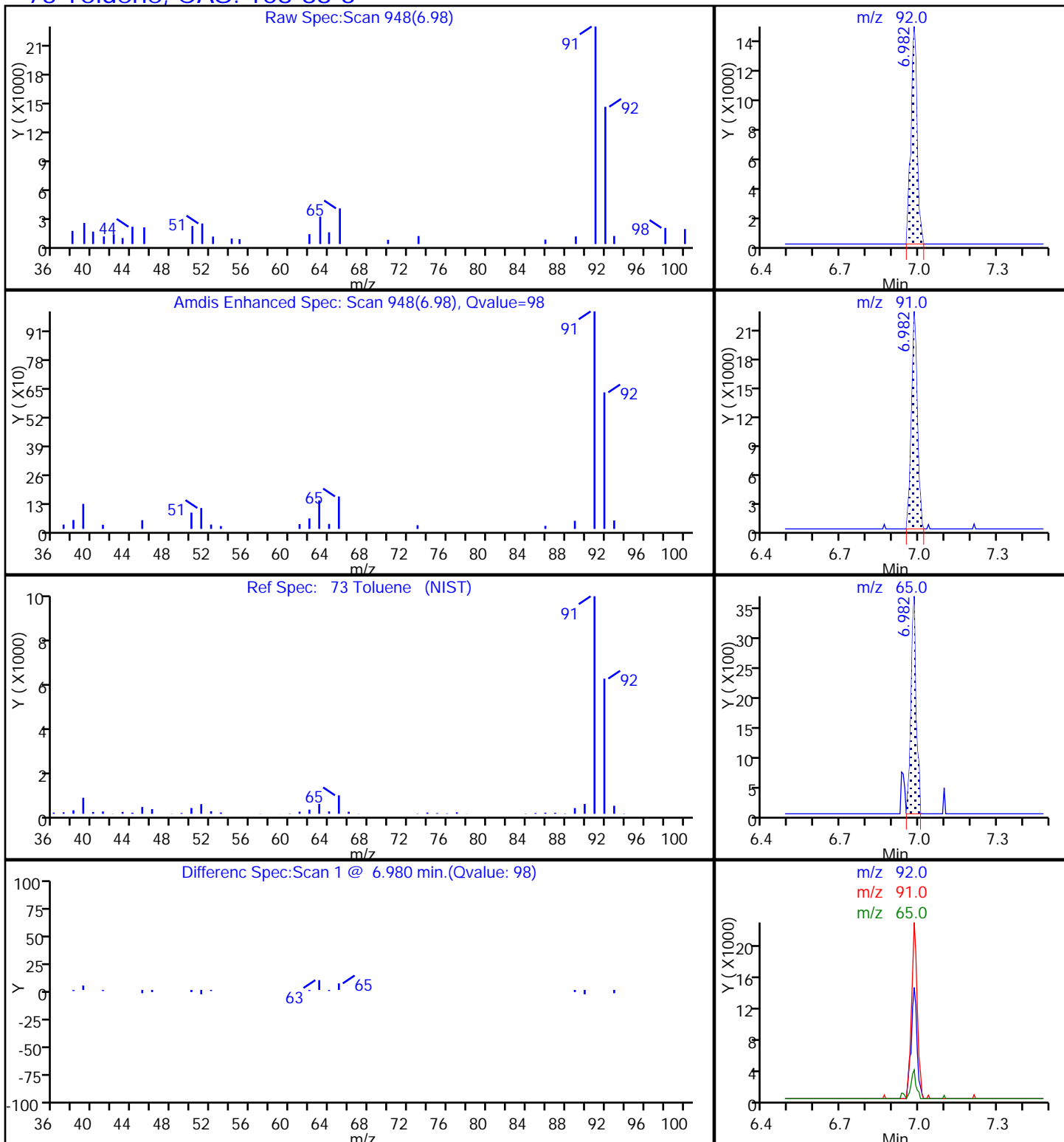
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

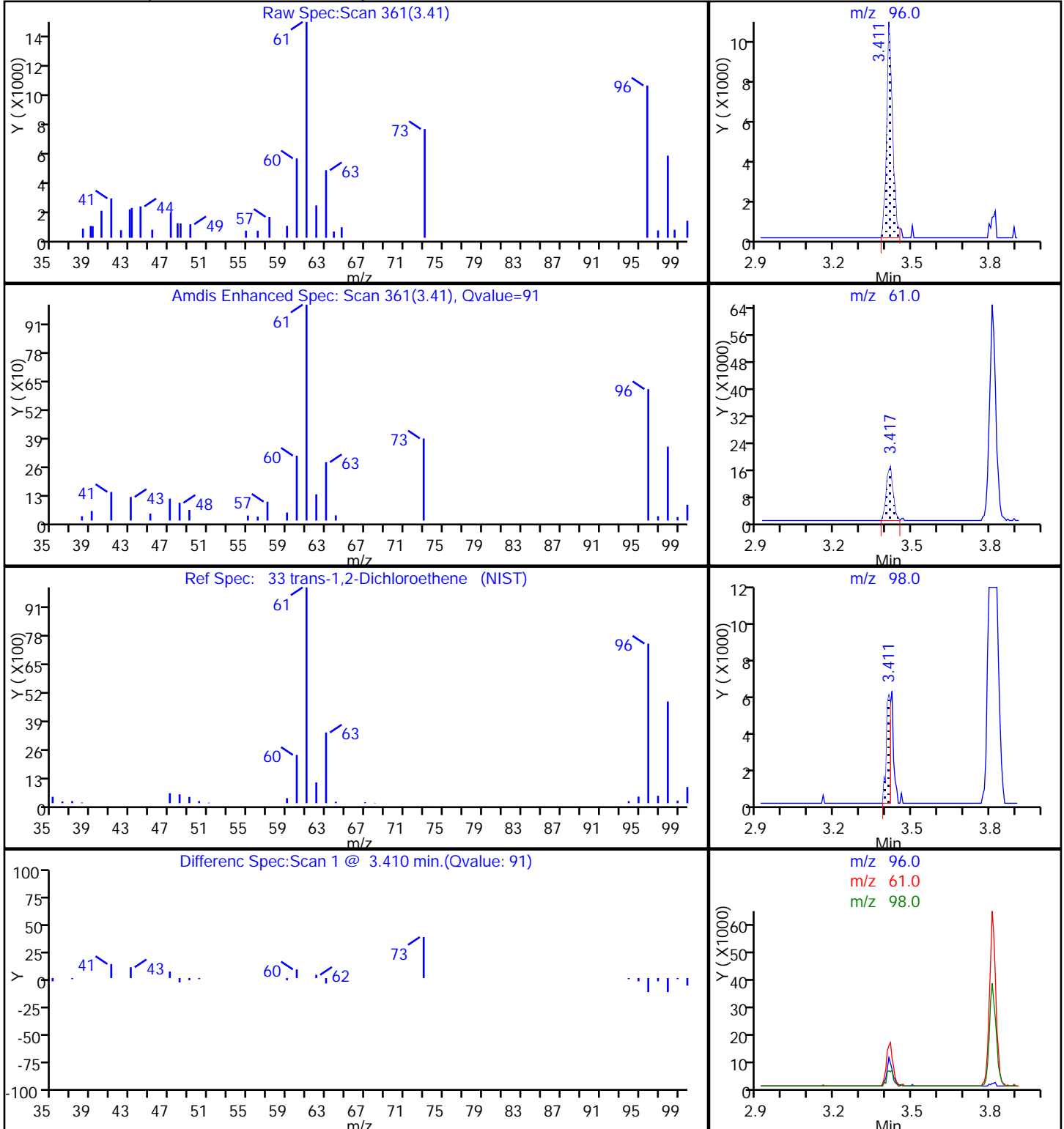
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

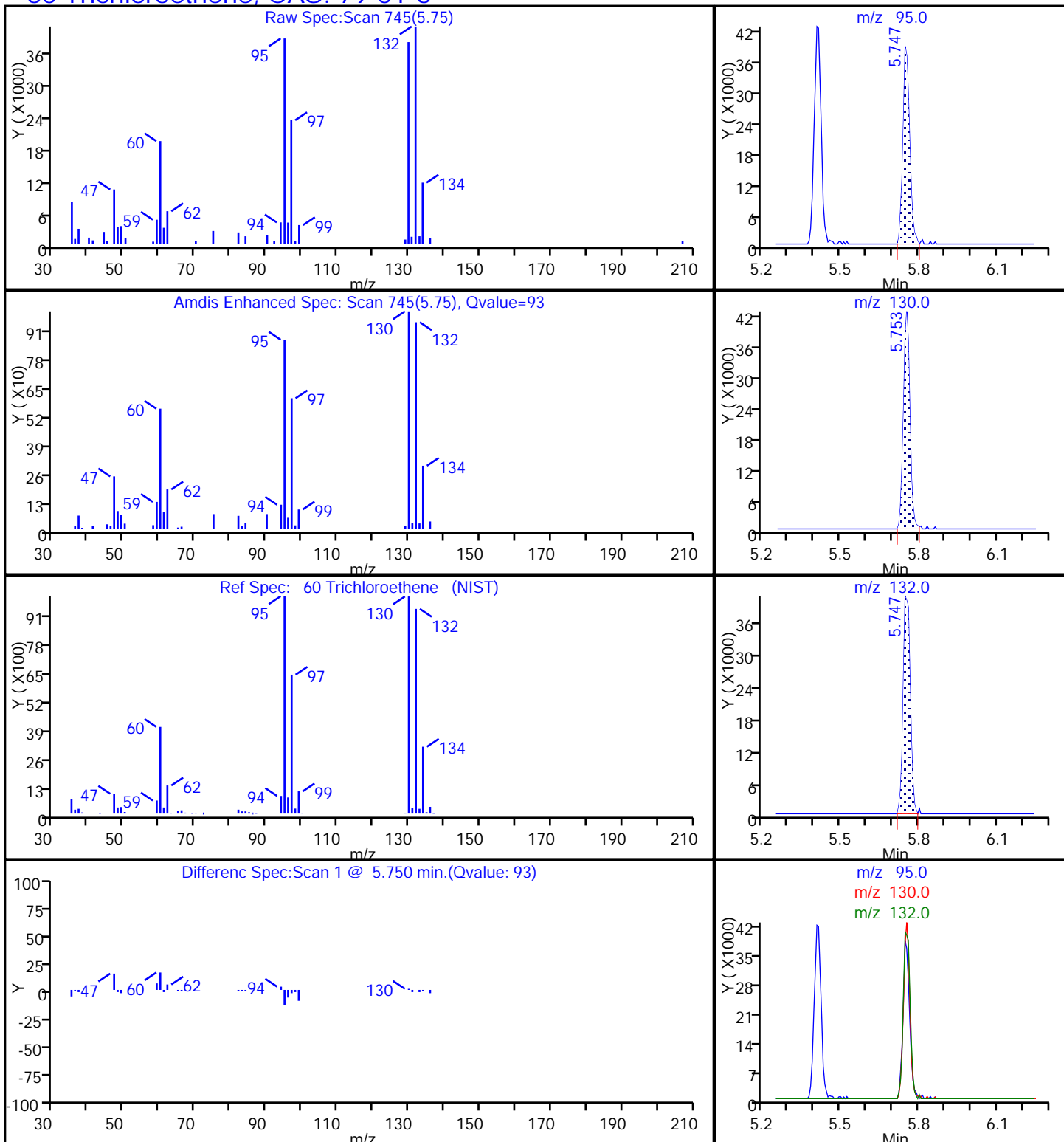
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

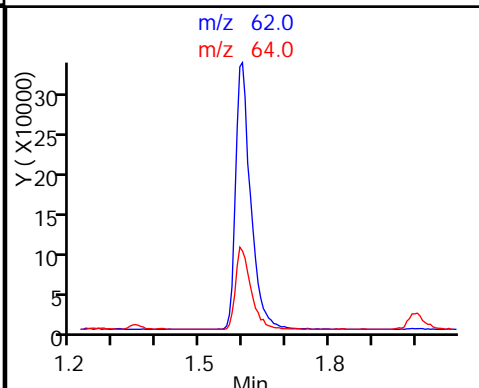
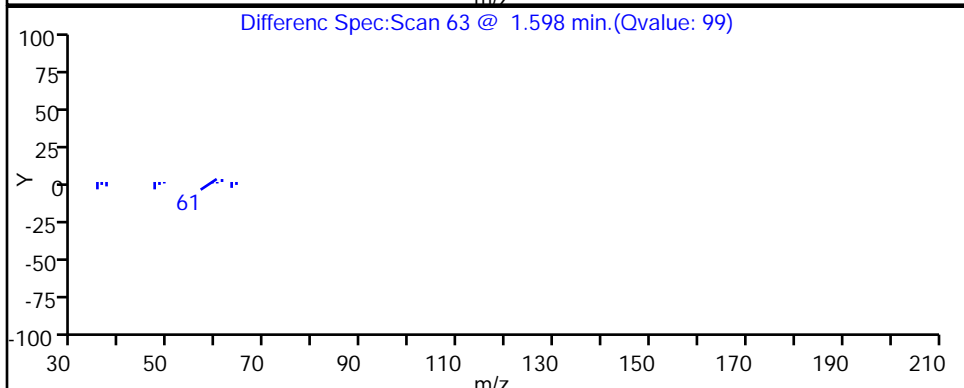
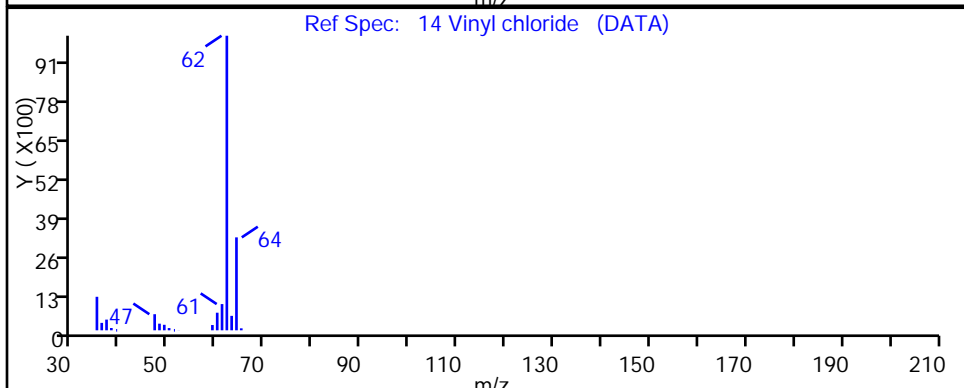
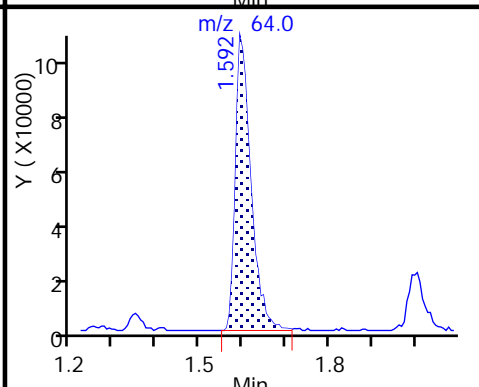
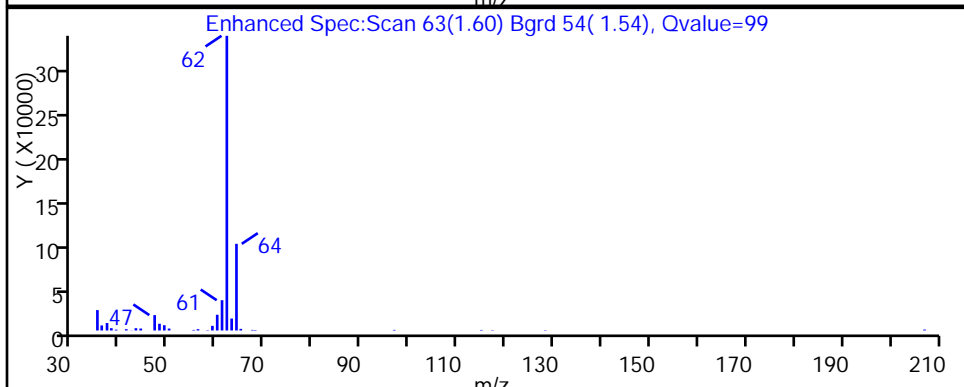
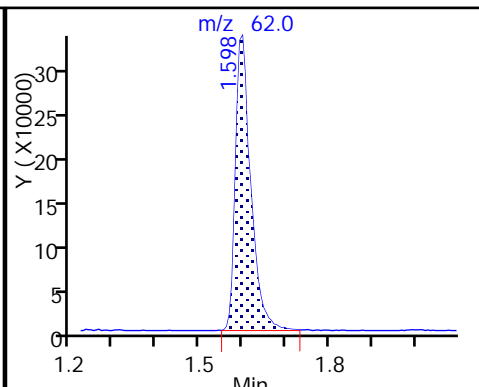
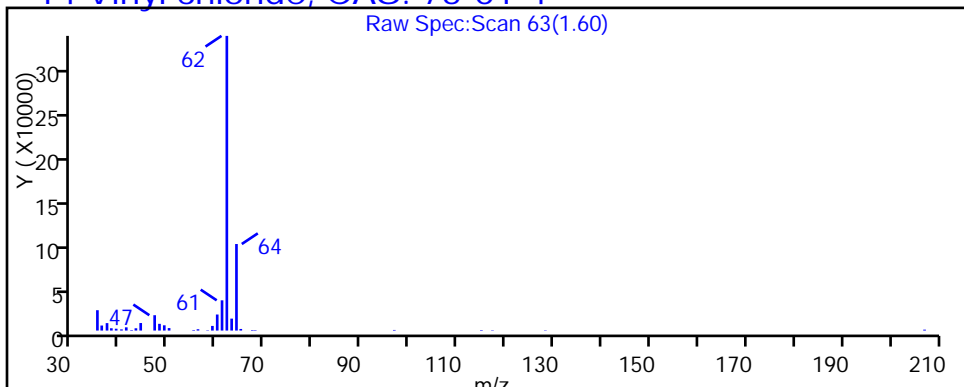
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

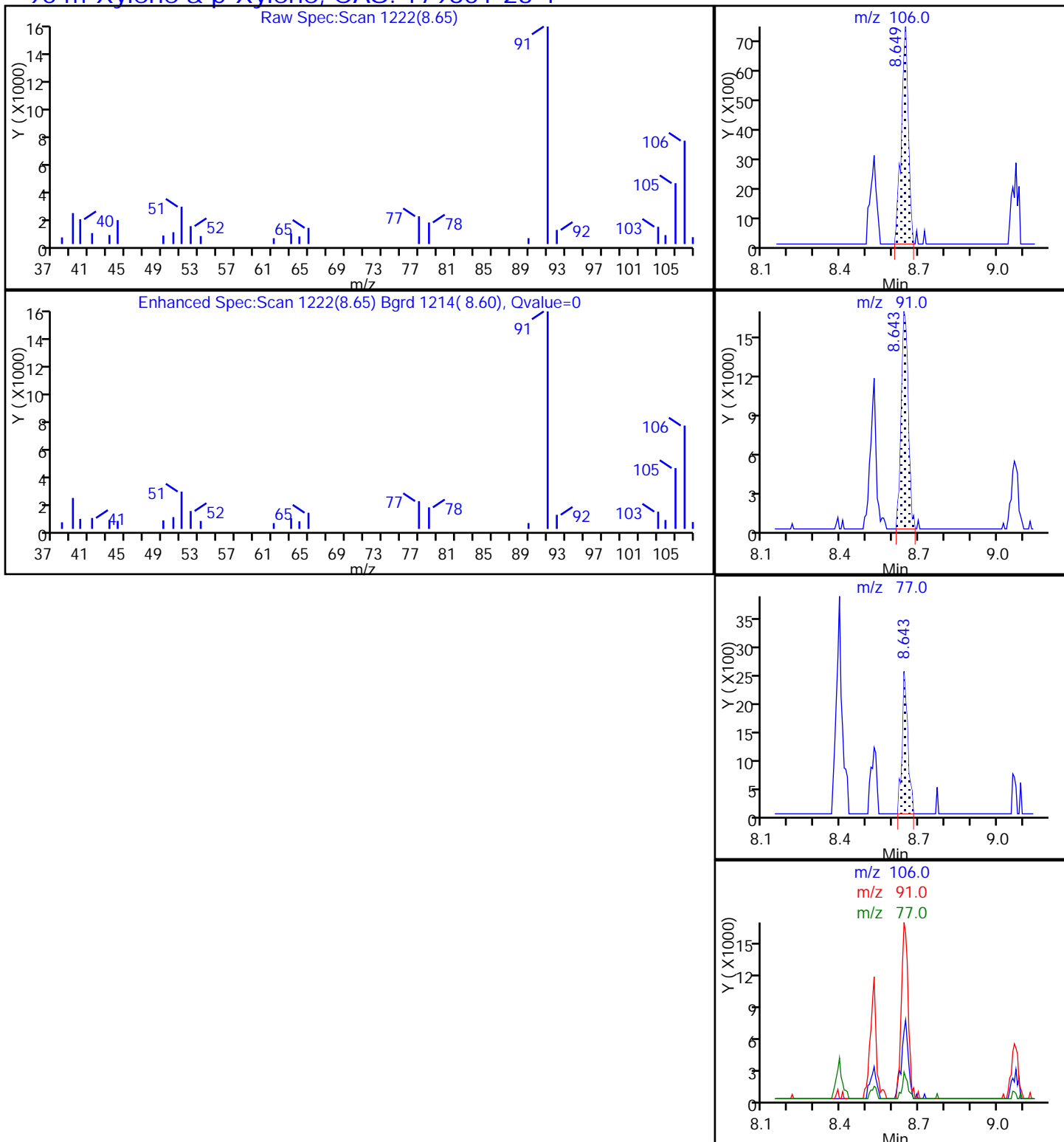
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-1-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

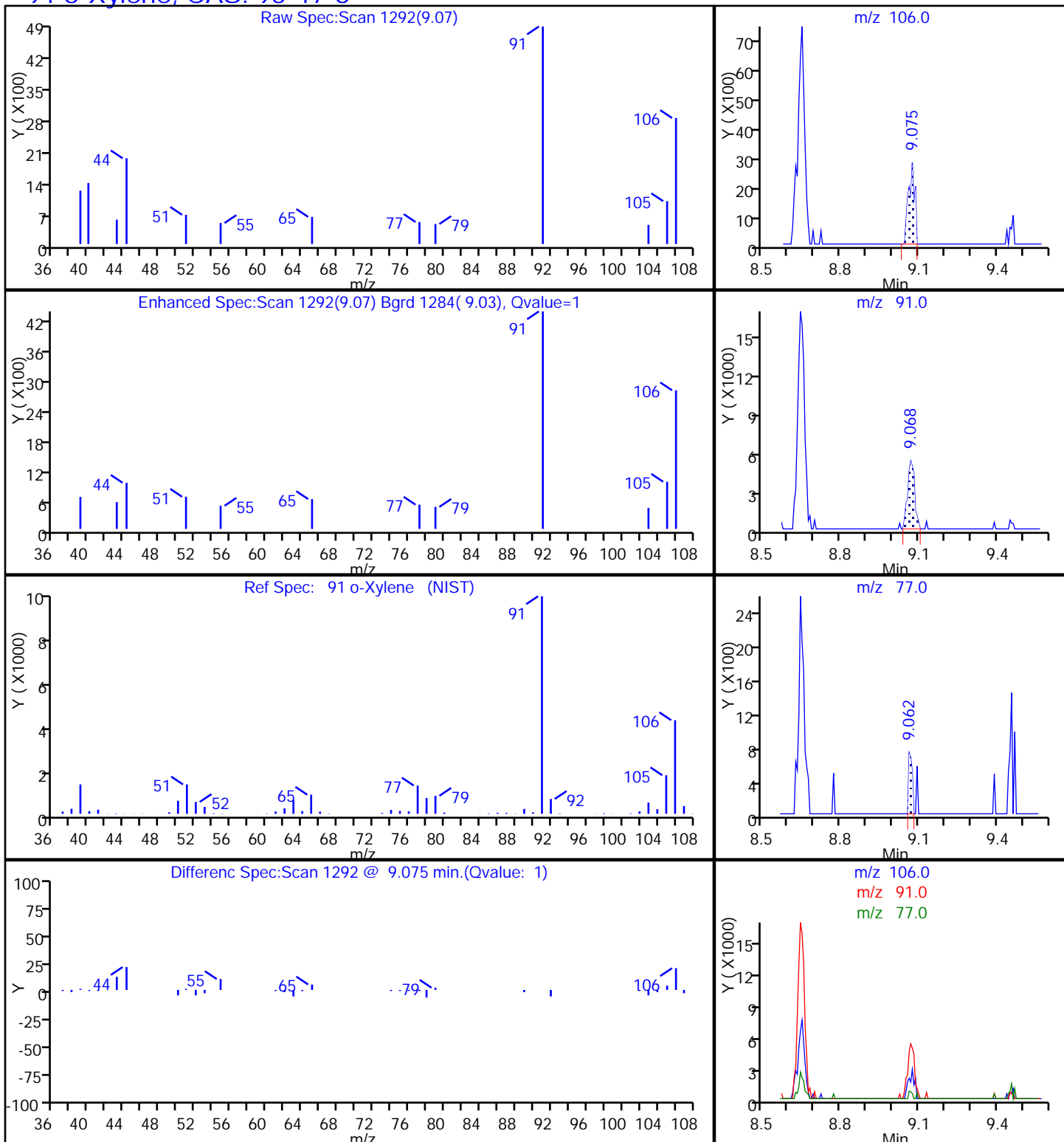
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

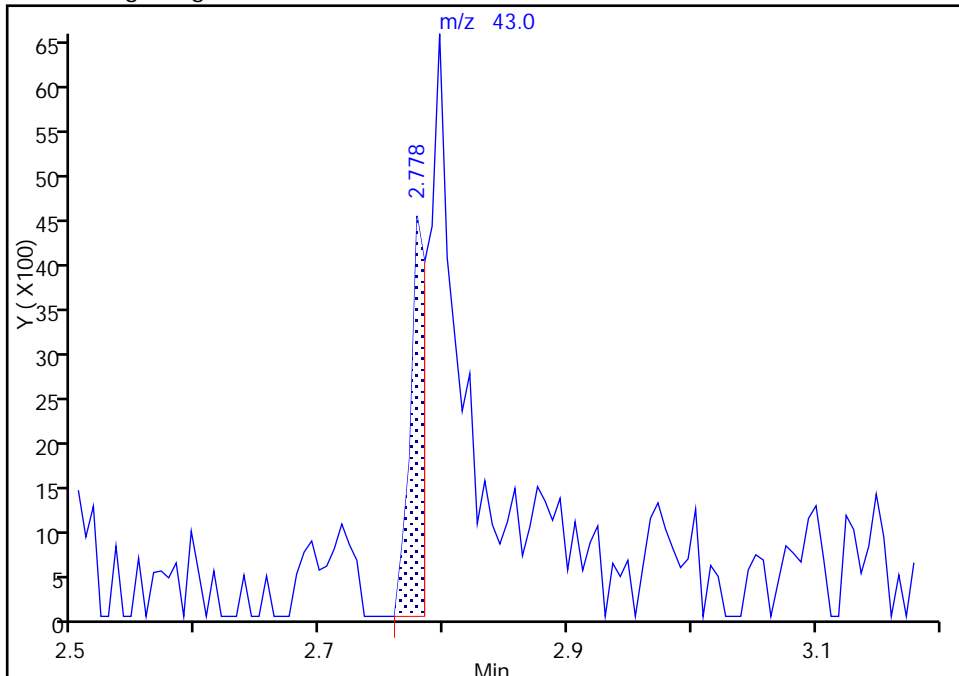
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Injection Date: 08-Jan-2018 13:24:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-6 Lab Sample ID: 480-129748-6
Client ID: ML-2D
Operator ID: AM/MS/RF ALS Bottle#: 4 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

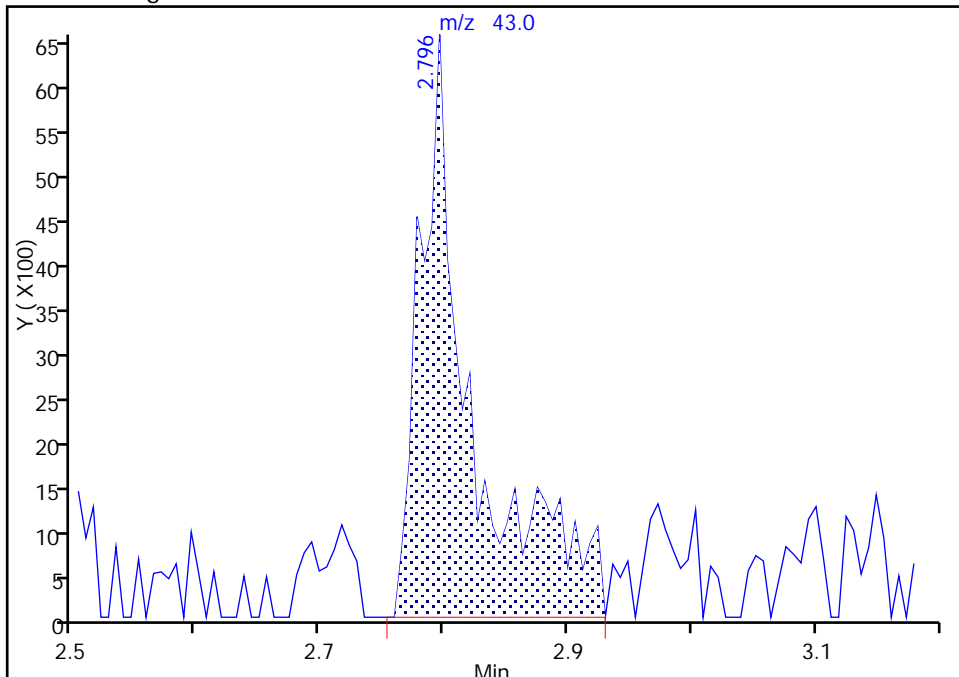
RT: 2.78
Area: 4038
Amount: 1.071995
Amount Units: ug/L

Processing Integration Results



RT: 2.80
Area: 18993
Amount: 5.042201
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 08-Jan-2018 17:05:40
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

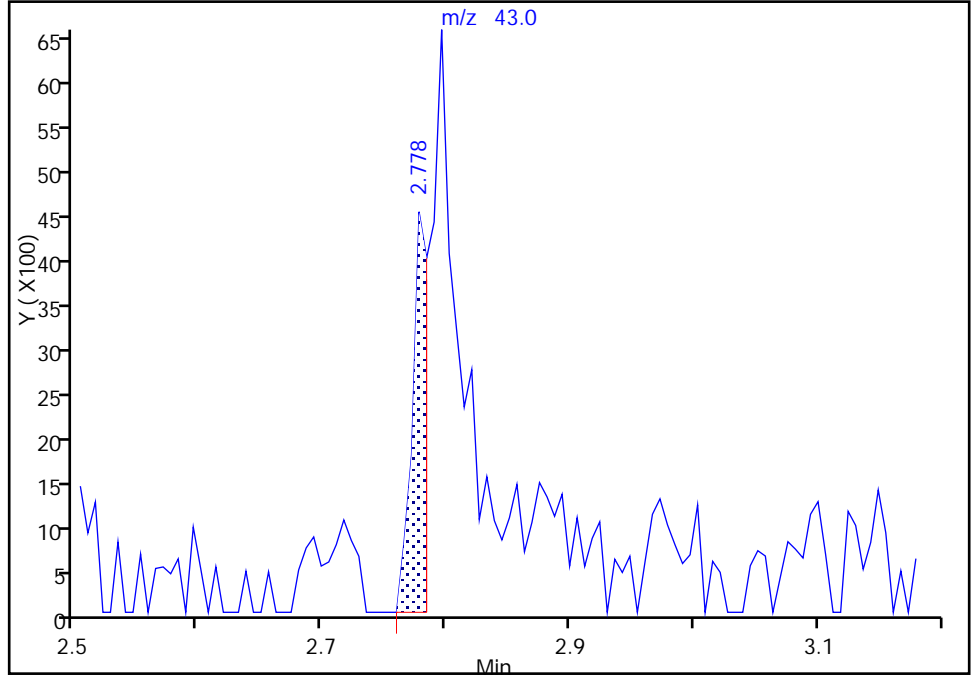
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Injection Date: 08-Jan-2018 13:24:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-6 Lab Sample ID: 480-129748-6
Client ID: ML-2D
Operator ID: AM/MS/RF ALS Bottle#: 4 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

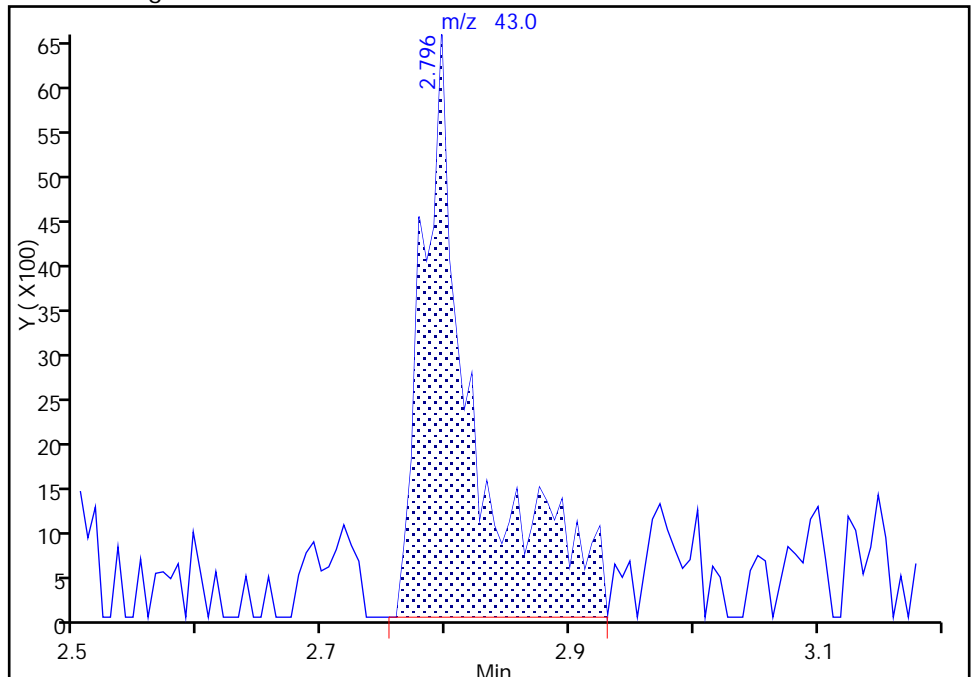
RT: 2.78
Area: 4038
Amount: 1.071995
Amount Units: ug/L

Processing Integration Results



RT: 2.80
Area: 18993
Amount: 5.042201
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 08-Jan-2018 17:05:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

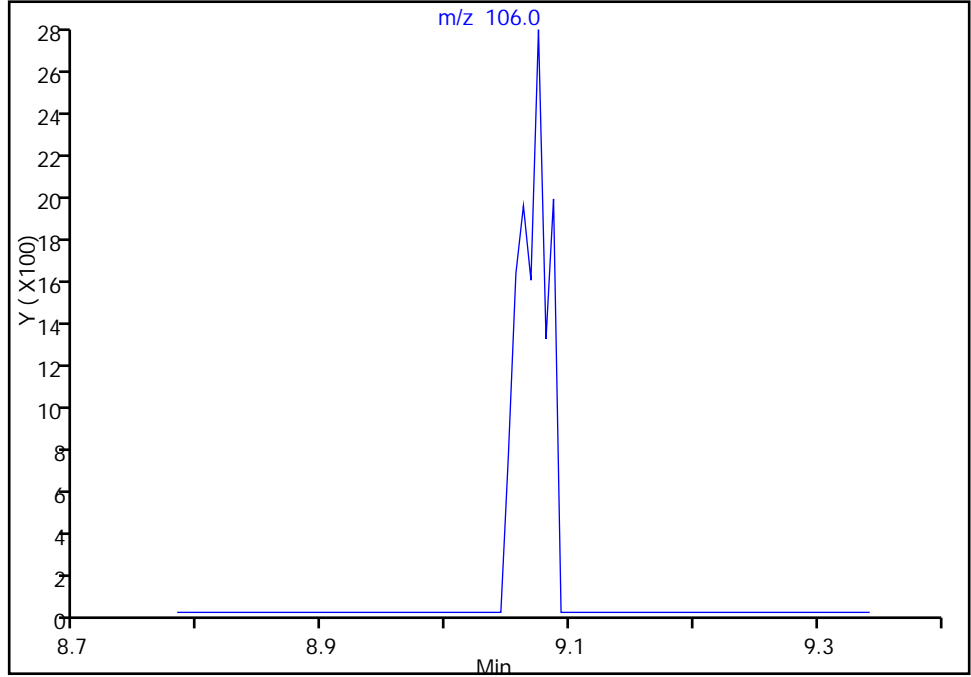
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Injection Date: 08-Jan-2018 13:24:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-6 Lab Sample ID: 480-129748-6
Client ID: ML-2D
Operator ID: AM/MS/RF ALS Bottle#: 4 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

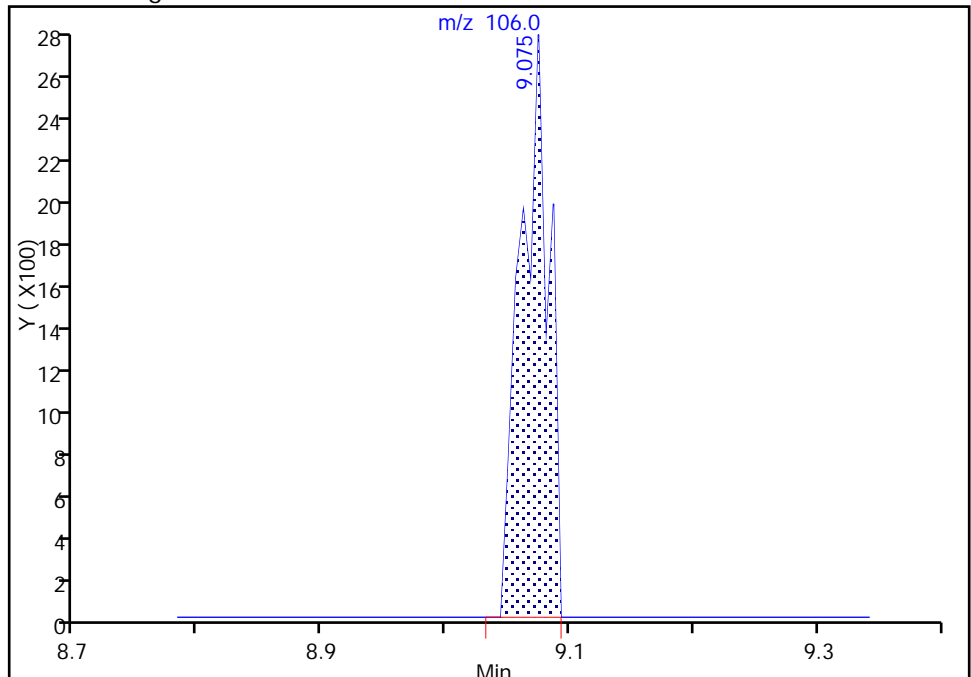
Signal: 1

Not Detected
Expected RT: 9.07

Processing Integration Results



Manual Integration Results



RT: 9.07
Area: 4364
Amount: 0.256054
Amount Units: ug/L

TestAmerica Buffalo

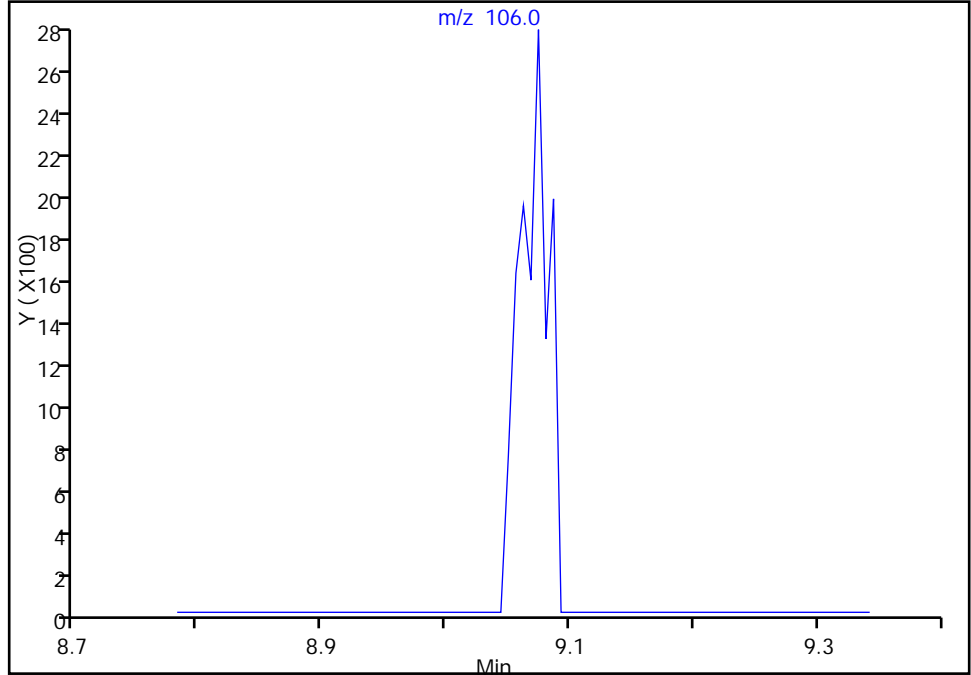
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Injection Date: 08-Jan-2018 13:24:30 Instrument ID: HP5973N
Lims ID: 480-129748-I-6 Lab Sample ID: 480-129748-6
Client ID: ML-2D
Operator ID: AM/MS/RF ALS Bottle#: 4 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

Signal: 1

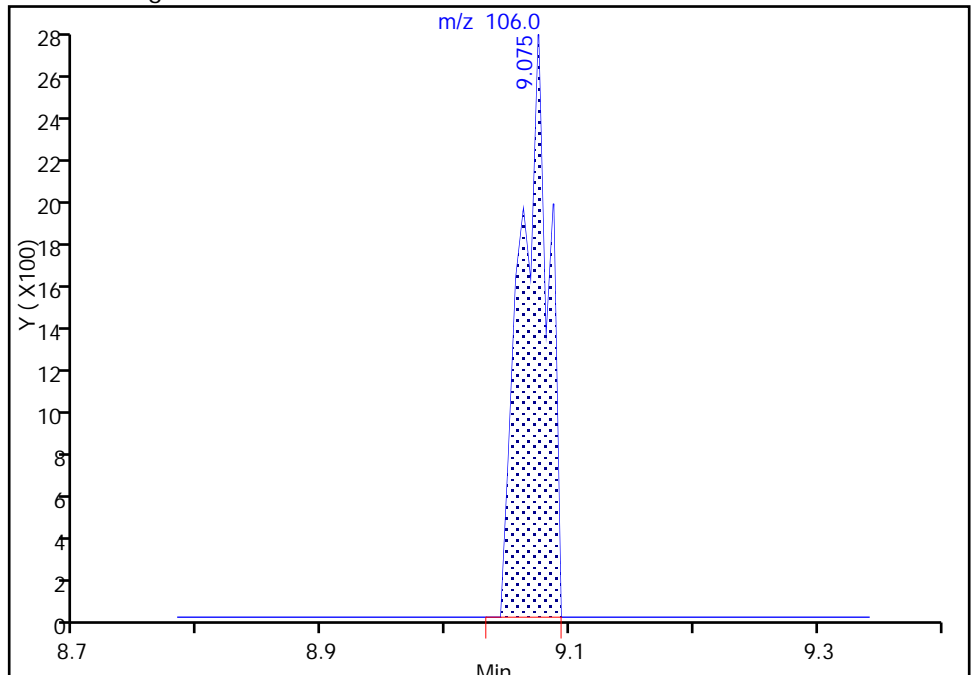
Not Detected
Expected RT: 9.07

Processing Integration Results



Manual Integration Results

RT: 9.07
Area: 4364
Amount: 0.256054
Amount Units: ug/L



Reviewer: sonkera, 08-Jan-2018 17:08:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6131.D

Injection Date: 08-Jan-2018 13:24:30

Instrument ID: HP5973N

Lims ID: 480-129748-I-6

Lab Sample ID: 480-129748-6

Client ID: ML-2D

Operator ID: AM/MS/RF

ALS Bottle#: 4

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

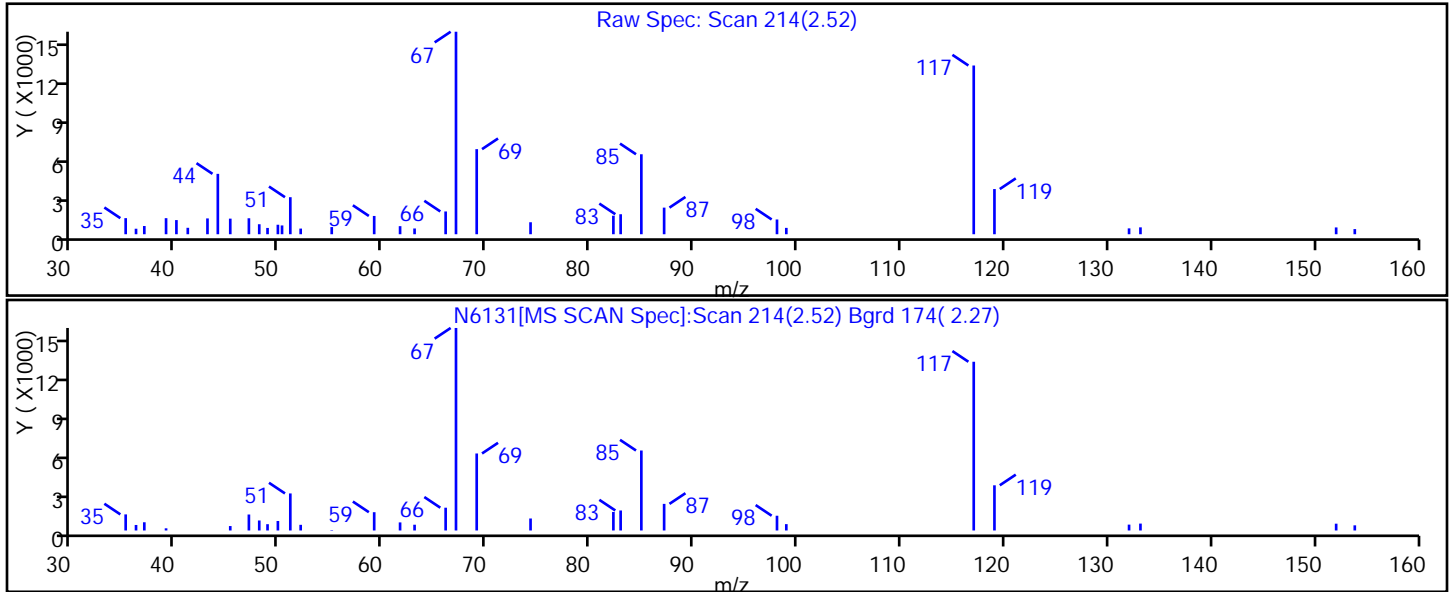
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

No Library Matches Found above the Threshold: 85



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45 Calibration End Date: 12/28/2017 18:55 Calibration ID: 32489

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-393925/6	N5945.D
Level 2	IC 480-393925/7	N5946.D
Level 3	IC 480-393925/8	N5947.D
Level 4	IC 480-393925/9	N5948.D
Level 5	IC 480-393925/10	N5949.D
Level 6	ICIS 480-393925/11	N5950.D
Level 7	IC 480-393925/12	N5951.D
Level 8	IC 480-393925/13	N5952.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	++++ 1.1247	1.1318 1.3198	1.0565 1.2252	1.3299	1.2514	Ave		1.2056		0.1000	8.6		20.0				
Chloromethane	++++ 2.5343	2.9211 2.8368	2.7730 2.7171	2.9639	2.8037	Ave		2.7928		0.1000	5.1		20.0				
Vinyl chloride	++++ 1.6886	1.7415 1.9749	1.7743 1.8627	1.9610	1.9293	Ave		1.8475		0.1000	6.2		20.0				
Butadiene	++++ 1.8464	2.2879 2.1835	2.0233 2.1807	2.2022	2.2597	Ave		2.1405			7.2		20.0				
Bromomethane	0.8730 0.8779	1.0710 0.9916	0.9374 0.9362	1.0109	0.9533	Ave		0.9564		0.1000	7.0		20.0				
Chloroethane	++++ 0.9859	1.1121 1.1267	1.0114 1.0655	1.1720	1.1277	Ave		1.0859		0.1000	6.2		20.0				
Trichlorofluoromethane	++++ 1.7774	1.8302 1.9933	1.6558 1.9006	2.0969	1.9555	Ave		1.8871		0.1000	7.8		20.0				
Dichlorofluoromethane	2.8457 2.0948	3.1139 2.3412	2.4211 2.1817	2.5321	2.3136	Ave		2.4805			13.8		20.0				
Ethyl ether	++++ 1.5411	1.7505 1.7794	1.5677 1.6926	1.6741	1.5695	Ave		1.6536			5.8		20.0				
Acrolein	0.4131 0.3999	0.4750 0.4531	0.4080 0.4421	0.4161	0.4169	Ave		0.4280			6.1		20.0				
1,1-Dichloroethene	0.9158 0.9082	1.0507 1.0933	0.9392 1.0044	1.1049	0.8654	Ave		0.9852		0.1000	9.2		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.9003	0.9509 1.0636	0.7553 1.0291	0.9633	0.8465	Ave		0.9299		0.1000	11.4		20.0				
Acetone	++++ 0.5213	0.6482 0.5950	0.5396 0.5575	0.5425	0.5364	Ave		0.5629		0.1000	7.9		20.0				
Iodomethane	++++ 1.8265	2.0522 2.1914	1.9232 2.0296	1.9880	1.8476	Ave		1.9798			6.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45

Calibration End Date: 12/28/2017 18:55

Calibration ID: 32489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
Carbon disulfide	3.4620 3.1356	3.4402 3.8217	3.1503 3.5219	3.5111	3.0132	Ave		3.3820			0.1000	7.8	20.0				
Allyl chloride	++++ 3.3007	3.5103 3.9042	3.1298 3.5895	3.6850	3.1829	Ave		3.4718				8.1	20.0				
Methyl acetate	2.1194 1.8388	2.1407 2.3311	2.0488 2.0796	1.9125	2.0512	Ave		2.0653			0.1000	7.2	20.0				
Methylene Chloride	3.2932 1.1184	2.3810 1.3466	1.8285 1.2297	1.4485	1.2637	Lin1	1.0585	1.2266			0.1000			0.9960		0.9900	
2-Methyl-2-propanol	++++ 0.1018	0.1403 0.1325	0.1297 0.1317	0.1163	0.1227	Ave		0.1250				10.2	20.0				
Methyl tert-butyl ether	3.9722 3.7698	4.2400 4.4022	3.9552 4.1809	3.9621	3.9757	Ave		4.0573			0.1000	5.0	20.0				
trans-1,2-Dichloroethene	++++ 1.0982	1.1446 1.2982	1.0447 1.1883	1.3171	1.0902	Ave		1.1688			0.1000	9.0	20.0				
Acrylonitrile	1.0178 0.9204	0.9562 1.0708	0.9046 1.0055	0.9593	0.9725	Ave		0.9759				5.5	20.0				
Hexane	++++ 2.3526	2.5399 2.7143	2.1975 2.4898	2.7766	2.1698	Ave		2.4629				9.6	20.0				
1,1-Dichloroethane	2.5952 2.4844	2.8004 2.9187	2.6039 2.6685	2.7530	2.3912	Ave		2.6519			0.2000	6.5	20.0				
Vinyl acetate	5.4006 4.8637	5.2581 5.3728	5.1608 5.5614	5.2515	5.1495	Ave		5.2523				4.0	20.0				
2,2-Dichloropropane	++++ 1.5043	1.8570 1.7666	1.5560 1.6564	1.7440	1.4996	Ave		1.6549				8.5	20.0				
cis-1,2-Dichloroethene	1.2622 1.2859	1.5406 1.4818	1.3157 1.3894	1.3489	1.2397	Ave		1.3580			0.1000	7.9	20.0				
2-Butanone (MEK)	1.1681 1.1168	1.3360 1.2555	1.1589 1.2306	1.2360	1.1443	Ave		1.2058			0.1000	6.0	20.0				
Chlorobromomethane	++++ 0.6490	0.7681 0.7734	0.6576 0.7204	0.7034	0.6780	Ave		0.7071				7.1	20.0				
Tetrahydrofuran	++++ 0.7632	0.9448 0.8447	0.8861 0.8231	0.8342	0.8288	Ave		0.8464				6.7	20.0				
Chloroform	2.5071 1.9720	2.4807 2.3538	1.9936 2.1755	2.2734	2.0348	Ave		2.2239			0.2000	9.6	20.0				
1,1,1-Trichloroethane	++++ 1.7526	1.8626 2.0481	1.7486 1.8983	1.8832	1.6576	Ave		1.8359			0.1000	7.0	20.0				
Cyclohexane	++++ 2.7675	2.6327 3.3224	2.6492 3.0547	3.1903	2.6549	Ave		2.8960			0.1000	10.0	20.0				
Carbon tetrachloride	1.3425 1.5232	1.3882 1.8504	1.5649 1.7019	1.7465	1.4500	Ave		1.5710			0.1000	11.5	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45

Calibration End Date: 12/28/2017 18:55

Calibration ID: 32489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	++++ 1.4975	1.5570 1.7455	1.5109 1.6043	1.6819	1.3870	Ave		1.5692			7.7		20.0				
Isobutyl alcohol	++++ 0.0826	0.0898 0.1014	0.0839 0.1163	0.0897	0.0956	Ave		0.0942			12.4		20.0				
Benzene	4.4537 4.4707	5.0715 5.2138	4.3960 4.8653	4.8784	4.4703	Ave		4.7275		0.5000	6.8		20.0				
1,2-Dichloroethane	++++ 2.0930	2.5810 2.3738	2.5382 2.2349	2.3862	2.2450	Ave		2.3503		0.1000	7.4		20.0				
n-Heptane	2.8047 2.8099	2.7473 3.3375	3.0891 3.1077	3.3059	2.6572	Ave		2.9824			8.8		20.0				
Trichloroethene	++++ 1.1556	1.3180 1.3726	1.2106 1.2716	1.3211	1.1270	Ave		1.2538		0.2000	7.3		20.0				
Methylcyclohexane	++++ 1.9319	1.8868 2.2756	1.9054 2.1432	2.1909	1.8431	Ave		2.0253		0.1000	8.5		20.0				
1,2-Dichloropropane	1.4428 1.3760	1.4785 1.5806	1.3464 1.4722	1.6150	1.4264	Ave		1.4672		0.1000	6.3		20.0				
Dibromomethane	0.8355 0.7649	0.8555 0.8952	0.7757 0.8610	0.8747	0.8018	Ave		0.8330		0.1000	5.7		20.0				
1,4-Dioxane	++++ 0.0025	0.0012 0.0030	0.0025 0.0031	0.0027	0.0025	Lin1	-0.036	0.0030						0.9960		0.9900	
Bromodichloromethane	++++ 1.5581	1.6749 1.8792	1.5551 1.7387	1.7229	1.5759	Ave		1.6721		0.2000	7.2		20.0				
2-Chloroethyl vinyl ether	++++ 1.0192	0.9594 1.1670	0.9741 1.1284	1.0846	1.0302	Ave		1.0518			7.4		20.0				
cis-1,3-Dichloropropene	++++ 1.8030	1.8088 2.1099	1.7874 2.0016	1.9136	1.8014	Ave		1.8894		0.2000	6.6		20.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.2095	0.2114 0.2557	0.2255 0.2495	0.2461	0.2271	Ave		0.2321		0.1000	8.0		20.0				
Toluene	++++ 0.7529	0.8416 0.9143	0.7767 0.8926	0.8437	0.7358	Ave		0.8225		0.4000	8.4		20.0				
trans-1,3-Dichloropropene	0.4649 0.4424	0.4339 0.5412	0.4429 0.5430	0.4798	0.4405	Ave		0.4736		0.1000	9.5		20.0				
Ethyl methacrylate	0.4717 0.4045	0.3508 0.4942	0.4572 0.4910	0.4339	0.4238	Ave		0.4409			11.0		20.0				
1,1,2-Trichloroethane	++++ 0.2197	0.2594 0.2681	0.2426 0.2663	0.2493	0.2281	Ave		0.2476		0.1000	7.5		20.0				
Tetrachloroethene	++++ 0.3322	0.3349 0.4130	0.3341 0.3966	0.3790	0.3184	Ave		0.3583		0.2000	10.4		20.0				
1,3-Dichloropropane	++++ 0.4406	0.4982 0.5406	0.4952 0.5268	0.5027	0.4606	Ave		0.4950			7.1		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45

Calibration End Date: 12/28/2017 18:55

Calibration ID: 32489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.5018 0.4404	0.5013 0.5243	0.5209 0.5039	0.5167	0.4908	Ave	0.5000			0.1000	5.3		20.0				
Dibromochloromethane	++++ 0.3195	0.3085 0.4005	0.3208 0.4080	0.3422	0.3283	Ave	0.3468			0.1000	11.7		20.0				
1,2-Dibromoethane	++++ 0.2872	0.3199 0.3536	0.2980 0.3514	0.3298	0.3048	Ave	0.3207				8.1		20.0				
Chlorobenzene	0.9316 0.8628	0.9789 1.0642	0.9334 1.0263	0.9952	0.8741	Ave	0.9583			0.5000	7.4		20.0				
1,1,1,2-Tetrachloroethane	++++ 0.3132	0.3505 0.3999	0.3338 0.3889	0.3454	0.3366	Ave	0.3526				8.8		20.0				
Ethylbenzene	++++ 1.4299	1.4968 1.7566	1.5543 1.6684	1.6051	1.4237	Ave	1.5621			0.1000	7.9		20.0				
m,p-Xylene	++++ 0.5578	0.6430 0.6714	0.5976 0.6493	0.6481	0.5482	Ave	0.6165			0.1000	7.9		20.0				
o-Xylene	++++ 0.5416	0.6581 0.6796	0.5690 0.6545	0.6424	0.5745	Ave	0.6171			0.3000	8.7		20.0				
Styrene	0.9481 0.9620	0.9213 1.1624	0.9392 1.1317	1.1023	0.9864	Ave	1.0192			0.3000	9.5		20.0				
Bromoform	++++ 0.2158	0.2638 0.2824	0.2227 0.2779	0.2436	0.2370	Ave	0.2490			0.1000	10.5		20.0				
Isopropylbenzene	2.6840 2.7578	2.7796 3.4589	2.7974 3.4252	2.9888	2.6937	Ave	2.9482			0.1000	10.8		20.0				
Bromobenzene	++++ 0.6845	0.7718 0.8633	0.7282 0.8825	0.7796	0.7027	Ave	0.7732				9.9		20.0				
1,1,2,2-Tetrachloroethane	++++ 0.7450	0.8066 0.8930	0.7505 0.9172	0.8193	0.8109	Ave	0.8204			0.3000	7.9		20.0				
1,2,3-Trichloropropane	++++ 0.2462	0.2622 0.2868	0.2201 0.2860	0.2541	0.2616	Ave	0.2596				8.9		20.0				
trans-1,4-Dichloro-2-butene	++++ 0.3571	0.3957 0.4532	0.3512 0.4623	0.3448	0.3749	Ave	0.3913				12.4		20.0				
N-Propylbenzene	++++ 3.1861	3.2164 3.9172	3.2119 3.8536	3.4420	3.1189	Ave	3.4209				9.7		20.0				
2-Chlorotoluene	0.7354 0.6580	0.6545 0.8234	0.7068 0.8082	0.7469	0.6610	Ave	0.7243				9.2		20.0				
1,3,5-Trimethylbenzene	++++ 2.2893	2.2944 2.8384	2.2788 2.7485	2.5423	2.3185	Ave	2.4729				9.6		20.0				
4-Chlorotoluene	++++ 2.2145	2.3592 2.6496	2.3161 2.6255	2.4758	2.3020	Ave	2.4204				6.9		20.0				
tert-Butylbenzene	++++ 0.5121	0.5003 0.6467	0.5754 0.6121	0.5755	0.5209	Ave	0.5633				9.7		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 393925
 SDG No.: _____
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 12/28/2017 15:45 Calibration End Date: 12/28/2017 18:55 Calibration ID: 32489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	++++ 2.4326	2.5512 2.8896	2.3728 2.8149	2.5457	2.3814	Ave		2.5698			8.0		20.0				
sec-Butylbenzene	++++ 2.8851	3.0603 3.5912	2.8984 3.3190	3.1518	2.7840	Ave		3.0986			9.1		20.0				
1,3-Dichlorobenzene	1.3871 1.3611	1.3598 1.6648	1.4159 1.6262	1.5408	1.3639	Ave		1.4649		0.6000	8.6		20.0				
4-Isopropyltoluene	++++ 2.5711	2.6444 3.0874	2.6441 2.8183	2.8010	2.4884	Ave		2.7221			7.3		20.0				
1,4-Dichlorobenzene	1.5467 1.3917	1.4655 1.6398	1.5504 1.6491	1.4945	1.4138	Ave		1.5190		0.5000	6.3		20.0				
n-Butylbenzene	++++ 2.1726	2.1523 2.6747	2.1732 2.4190	2.4630	2.2096	Ave		2.3235			8.6		20.0				
1,2-Dichlorobenzene	1.3519 1.3222	1.4830 1.5911	1.3547 1.5706	1.4262	1.3539	Ave		1.4317		0.4000	7.4		20.0				
1,2-Dibromo-3-Chloropropane	++++ 0.1445	0.1559 0.1765	0.1462 0.1890	0.1572	0.1363	Ave		0.1579		0.0500	11.8		20.0				
1,2,4-Trichlorobenzene	++++ 0.8279	0.9933 0.9967	0.8609 0.9807	0.8442	0.8492	Ave		0.9076		0.2000	8.6		20.0				
Hexachlorobutadiene	++++ 0.3826	0.4123 0.4658	0.4305 0.4057	0.4335	0.3892	Ave		0.4171			6.9		20.0				
Naphthalene	++++ 2.4706	2.3875 3.0200	2.4114 3.2661	2.6060	2.4947	Ave		2.6652			12.8		20.0				
1,2,3-Trichlorobenzene	++++ 0.7188	0.7282 0.8868	0.7978 0.8998	0.7630	0.7433	Ave		0.7911			9.4		20.0				
Dibromofluoromethane (Surr)	1.3384 1.3269	1.3409 1.2615	1.2506 1.2165	1.2958	1.2967	Ave		1.2909			3.5		20.0				
1,2-Dichloroethane-d4 (Surr)	1.8549 1.8400	1.8397 1.7425	1.7228 1.6578	1.7354	1.7949	Ave		1.7735			3.9		20.0				
Toluene-d8 (Surr)	1.2432 1.2525	1.2500 1.2492	1.2470 1.2387	1.2637	1.2548	Ave		1.2499			0.6		20.0				
4-Bromofluorobenzene (Surr)	0.4202 0.4257	0.4215 0.4270	0.4264 0.4181	0.4231	0.4246	Ave		0.4233			0.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45 Calibration End Date: 12/28/2017 18:55 Calibration ID: 32489

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-393925/6	N5945.D
Level 2	IC 480-393925/7	N5946.D
Level 3	IC 480-393925/8	N5947.D
Level 4	IC 480-393925/9	N5948.D
Level 5	IC 480-393925/10	N5949.D
Level 6	ICIS 480-393925/11	N5950.D
Level 7	IC 480-393925/12	N5951.D
Level 8	IC 480-393925/13	N5952.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 191035	7515 471159	14919 898754	45678	86528	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	++++ 430463	19395 1012707	39159 1993226	101800	193853	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 286814	11563 705011	25056 1366409	67353	133397	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	++++ 313614	15191 779490	28572 1599686	75638	156242	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	2934 149125	7111 354003	13238 686765	34721	65915	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 167466	7384 402231	14282 781619	40254	77972	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 301901	12152 711601	23383 1394220	72021	135206	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	9564 355807	20675 835765	34189 1600442	86969	159967	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	++++ 261767	11623 635210	22139 1241668	57499	108523	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	6941 339662	15768 808683	28807 1621572	71456	144121	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	3078 154264	6976 390281	13263 736784	37949	59833	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 152921	6314 379694	10666 754926	33085	58527	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 442710	21519 1062123	38100 2044801	93163	185430	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	++++ 310234	13626 782301	27159 1488838	68281	127750	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	11635 532603	22842 1364311	44487 2583607	120594	208338	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 393925

SDG No.:

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45

Calibration End Date: 12/28/2017 18:55

Calibration ID: 32489

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	++++ 560640	23307 1393768	44197 2633188	126567	220076	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	14246 624677	28427 1664359	57864 3051130	131379	283648	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	11068 189961	15809 480712	25821 902091	49752	87375	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	++++ 172878	9314 472836	18318 965814	39936	84805	++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	13350 640326	28152 1571546	55853 3067054	136087	274891	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 186534	7600 463457	14753 871718	45239	75378	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	34207 1563412	63488 3822697	127749 7376317	329488	672390	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	++++ 399603	16864 968980	31032 1826488	95369	150023	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	8722 421986	18594 1041950	36771 1957575	94558	165334	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	36301 1652271	69824 3836081	145758 8159401	360744	712100	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	++++ 255513	12330 630660	21973 1215126	59902	103685	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	4242 218423	10229 528979	18580 1019221	46332	85719	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	19629 948494	44354 2240956	81825 4513808	212260	395607	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	++++ 110244	5100 276080	9287 528503	24159	46882	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	++++ 259264	12547 603072	25027 1207575	57302	114616	++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	8426 334953	16471 840296	28152 1595916	78084	140695	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	++++ 297688	12367 731134	24693 1392539	64682	114614	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	++++ 470077	17480 1186063	37411 2240864	109577	183567	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4512 258731	9217 660569	22099 1248453	59986	100258	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	++++ 254366	10338 623114	21336 1176853	57768	95902	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	++++ 350781	14899 904547	29607 2132736	77038	165207	++++ 625	25.0 1250	50.0 2500	125	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45

Calibration End Date: 12/28/2017 18:55

Calibration ID: 32489

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	14968 759375	33673 1861250	62078 3569088	167558	309088	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	++++ 355502	17137 847432	35843 1639510	81960	155226	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	9426 477270	18241 1191460	43623 2279778	113547	183723	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	++++ 196287	8751 489994	17096 932791	45374	77927	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	++++ 328150	12528 812373	26907 1572191	75252	127436	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4849 233718	9817 564239	19013 1079942	55471	98627	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2808 129920	5680 319571	10954 631615	30044	55441	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	++++ 33269	611 79134	2510 159179	7009	13070	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	++++ 264659	11121 670863	21960 1275463	59175	108965	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 173112	6370 416596	13756 827783	37252	71230	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	++++ 306246	12010 753226	25241 1468310	65725	124556	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 693823	25916 1681243	57179 3237849	157522	296902	++++ 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	++++ 498602	20632 1202444	39386 2316810	108017	192391	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5926 292969	10636 711793	22460 1409241	61423	115171	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	6012 267905	8599 649989	23184 1274441	55543	110797	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 145503	6360 352578	12304 691080	31911	59627	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 220021	8210 543175	16941 1029394	48527	83241	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 291761	12214 710973	25112 1367271	64359	120433	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	31983 1458346	61446 3447742	132065 6539152	330753	641625	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	++++ 211564	7563 526772	16269 1058887	43809	85827	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 190187	7842 465001	15114 912153	42222	79682	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45

Calibration End Date: 12/28/2017 18:55

Calibration ID: 32489

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	11874 571414	23997 1399589	47333 2663675	127409	228552	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 207431	8593 525920	16929 1009275	44220	87999	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 946973	36693 2310170	78821 4330393	205484	372231	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	++++ 369379	15762 883012	30306 1685221	82975	143336	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	++++ 358698	16132 893780	28855 1698721	82246	150219	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	12084 637098	22585 1528719	47628 2937388	141118	257914	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	++++ 142922	6466 371415	11291 721182	31188	61977	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	18208 952786	37502 2387277	78277 4415171	209028	376196	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	++++ 236488	10413 595871	20376 1137645	54520	98132	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 257402	10883 616317	21000 1182286	57300	113242	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 85060	3538 197946	6159 368709	17771	36531	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 123376	5338 312808	9826 595923	24111	52354	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	++++ 1100782	43395 2703618	89875 4967495	240727	435573	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	4989 227329	8830 568277	19778 1041798	52236	92309	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 790947	30955 1959008	63765 3542976	177800	323792	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	++++ 765103	31829 1828684	64810 3384438	173153	321497	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 176942	6750 446366	16101 788984	40249	72745	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 840461	34420 1994385	66395 3628548	178041	332583	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 996765	41288 2478607	81104 4278376	220430	388813	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	9410 470251	18346 1149012	39619 2096241	107758	190483	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 888311	35677 2130863	73988 3632856	195896	347525	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 393925

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2017 15:45 Calibration End Date: 12/28/2017 18:55 Calibration ID: 32489

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	10493 480829	19772 1131792	43384 2125752	104523	197448	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	++++ 750612	29038 1846038	60809 3118191	172259	308590	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	9171 456808	20008 1098141	37908 2024543	99743	189078	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 49915	2103 121847	4092 243621	10991	19039	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 286018	13401 687906	24091 1264185	59043	118604	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 132181	5562 321492	12046 522988	30317	54361	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	++++ 853586	32212 2084354	67476 4210155	182259	348407	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 248333	9824 612077	22324 1159878	53363	103808	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	224913 225377	222577 225162	220753 223094	222535	224152	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	311697 312535	305382 311020	304110 304040	298030	310265	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	792295 829442	766102 821438	790484 803723	808921	820212	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	267786 281886	258331 280811	270276 271302	270857	277557	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 28-Dec-2017 15:45:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0068271-006
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:33:30 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: cwiklinc

Date: 29-Dec-2017 07:12:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	168041	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	637307	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	339199	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	94	224913	25.0	25.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	311697	25.0	26.1	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	792295	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.641	9.640	0.000	90	267786	25.0	24.8	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	36	2428	0.5000	0.2996	
13 Chloromethane	50	1.501	1.501	0.000	44	8380	0.5000	0.4464	M
14 Vinyl chloride	62	1.598	1.592	0.006	22	4773	0.5000	0.3844	
144 Butadiene	54	1.610	1.622	-0.012	84	4783	0.5000	0.3324	M
15 Bromomethane	94	1.890	1.908	-0.018	37	2934	0.5000	0.4564	M
16 Chloroethane	64	2.006	1.993	0.013	27	3803	0.5000	0.5210	
18 Trichlorofluoromethane	101	2.219	2.188	0.031	19	3975	0.5000	0.3134	M
17 Dichlorofluoromethane	67	2.200	2.200	0.000	27	9564	0.5000	0.5736	
19 Ethyl ether	59	2.480	2.474	0.006	90	6558	0.5000	0.5900	
20 Acrolein	56	2.638	2.626	0.012	69	6941	2.50	2.41	M
22 1,1-Dichloroethene	96	2.681	2.681	0.000	83	3078	0.5000	0.4648	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.711	0.006	1	1242	0.5000	0.1987	
23 Acetone	43	2.778	2.784	-0.006	85	15482	2.50	4.09	M
24 Iodomethane	142	2.833	2.833	0.000	48	7452	0.5000	0.5600	
25 Carbon disulfide	76	2.876	2.875	0.001	94	11635	0.5000	0.5118	
27 3-Chloro-1-propene	41	3.046	3.040	0.006	91	12911	0.5000	0.5533	
28 Methyl acetate	43	3.088	3.082	0.006	90	14246	1.00	1.03	
30 Methylene Chloride	84	3.174	3.174	0.000	89	11068	0.5000	0.4794	
31 2-Methyl-2-propanol	59	3.338	3.332	0.006	66	4896	5.00	5.83	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	89	13350	0.5000	0.4895	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	39	4480	0.5000	0.5703	M
34 Acrylonitrile	53	3.429	3.429	0.000	95	34207	5.00	5.21	M
35 Hexane	57	3.624	3.624	0.000	92	7332	0.5000	0.4429	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	90	8722	0.5000	0.4893	
39 Vinyl acetate	43	3.873	3.867	0.006	96	36301	1.00	1.03	
42 2,2-Dichloropropane	77	4.323	4.329	-0.006	25	4467	0.5000	0.4016	
43 cis-1,2-Dichloroethene	96	4.366	4.360	0.006	1	4242	0.5000	0.4647	M
44 2-Butanone (MEK)	43	4.396	4.384	0.012	95	19629	2.50	2.42	M
47 Chlorobromomethane	128	4.591	4.585	0.006	83	2066	0.5000	0.4347	
49 Tetrahydrofuran	42	4.628	4.615	0.013	86	7264	1.00	1.28	
50 Chloroform	83	4.664	4.664	0.000	95	8426	0.5000	0.5637	
51 1,1,1-Trichloroethane	97	4.798	4.792	0.006	35	5752	0.5000	0.4661	
52 Cyclohexane	56	4.810	4.816	-0.006	32	7699	0.5000	0.3955	M
53 Carbon tetrachloride	117	4.944	4.938	0.006	71	4512	0.5000	0.4273	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	78	4703	0.5000	0.4459	
56 Isobutyl alcohol	43	5.133	5.132	0.001	51	9230	12.5	14.6	M
55 Benzene	78	5.139	5.139	0.000	89	14968	0.5000	0.4710	
57 1,2-Dichloroethane	62	5.193	5.187	0.006	24	8939	0.5000	0.5658	
59 n-Heptane	43	5.352	5.351	0.001	83	9426	0.5000	0.4702	
60 Trichloroethene	95	5.747	5.747	0.000	88	4643	0.5000	0.5509	
62 Methylcyclohexane	83	5.887	5.887	0.000	91	4824	0.5000	0.3544	M
63 1,2-Dichloropropane	63	5.972	5.972	0.000	80	4849	0.5000	0.4917	
64 Dibromomethane	93	6.112	6.106	0.006	94	2808	0.5000	0.5015	M
66 1,4-Dioxane	88		6.124				ND	ND	
67 Dichlorobromomethane	83	6.252	6.258	-0.006	81	5426	0.5000	0.4828	
69 2-Chloroethyl vinyl ether	63	6.538	6.544	-0.006	72	3125	0.5000	0.4420	M
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	76	5844	0.5000	0.4602	
72 4-Methyl-2-pentanone (MIBK)	58	6.830	6.824	0.006	97	13091	2.50	2.21	
73 Toluene	92	6.976	6.976	0.000	93	9810	0.5000	0.4679	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	93	5926	0.5000	0.4909	
77 Ethyl methacrylate	69	7.298	7.304	-0.006	89	6012	0.5000	0.5349	M
78 1,1,2-Trichloroethane	83	7.432	7.426	0.006	84	3429	0.5000	0.5432	
79 Tetrachloroethene	166	7.517	7.517	0.000	84	3935	0.5000	0.4308	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	87	5858	0.5000	0.4643	
82 2-Hexanone	43	7.663	7.657	0.006	96	31983	2.50	2.51	M
83 Chlorodibromomethane	129	7.822	7.821	0.001	7	3645	0.5000	0.4123	
84 Ethylene Dibromide	107	7.937	7.931	0.006	29	3406	0.5000	0.4167	
85 Chlorobenzene	112	8.418	8.418	0.000	87	11874	0.5000	0.4860	
89 1,1,1,2-Tetrachloroethane	131	8.521	8.509	0.012	55	3627	0.5000	0.4035	
88 Ethylbenzene	91	8.515	8.521	-0.006	95	17799	0.5000	0.4470	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	6717	0.5000	0.4274	
91 o-Xylene	106	9.075	9.069	0.006	93	7066	0.5000	0.4492	
92 Styrene	104	9.087	9.093	-0.006	87	12084	0.5000	0.4651	
93 Bromoform	173	9.324	9.318	0.006	4	2827	0.5000	0.4453	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	18208	0.5000	0.4552	
97 Bromobenzene	156	9.793	9.786	0.007	88	4477	0.5000	0.4267	
98 1,1,2,2-Tetrachloroethane	83	9.835	9.829	0.006	47	6356	0.5000	0.5710	
99 1,2,3-Trichloropropane	110	9.866	9.865	0.001	1	1489	0.5000	0.4228	
101 trans-1,4-Dichloro-2-buten	53	9.866	9.878	-0.012	1	1823	0.5000	0.3434	M
100 N-Propylbenzene	91	9.884	9.884	0.000	98	18946	0.5000	0.4082	
102 2-Chlorotoluene	126	9.987	9.981	0.006	95	4989	0.5000	0.5077	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	92	13596	0.5000	0.4052	
105 4-Chlorotoluene	91	10.091	10.091	0.000	94	14027	0.5000	0.4271	
106 tert-Butylbenzene	134	10.377	10.383	-0.006	48	3228	0.5000	0.4224	M
108 1,2,4-Trimethylbenzene	105	10.444	10.437	0.007	95	15538	0.5000	0.4456	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.595	0.001	93	18437	0.5000	0.4385	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	96	9410	0.5000	0.4734	
111 4-Isopropyltoluene	119	10.736	10.735	0.001	96	15141	0.5000	0.4100	
113 1,4-Dichlorobenzene	146	10.809	10.808	0.001	89	10493	0.5000	0.5091	M
115 n-Butylbenzene	91	11.119	11.125	-0.006	95	13904	0.5000	0.4410	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	92	9171	0.5000	0.4721	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	1	857	0.5000	0.3999	M
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	93	5005	0.5000	0.4065	
120 Hexachlorobutadiene	225	12.694	12.700	-0.006	79	1856	0.5000	0.3280	
121 Naphthalene	128	12.786	12.780	0.006	95	14517	0.5000	0.4015	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	85	4245	0.5000	0.3955	
S 123 1,3-Dichloropropene, Total	1				0			0.9510	
S 124 1,2-Dichloroethene, Total	1				0			1.03	
S 125 Total BTEX	1				0			2.26	
S 126 Xylenes, Total	1				0			0.8766	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114	Amount Added: 0.50	Units: uL	
GAS CORP mix_00257	Amount Added: 0.50	Units: uL	
N_8260_Surr_00305	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00094	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D

Injection Date: 28-Dec-2017 15:45:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC 0.5

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

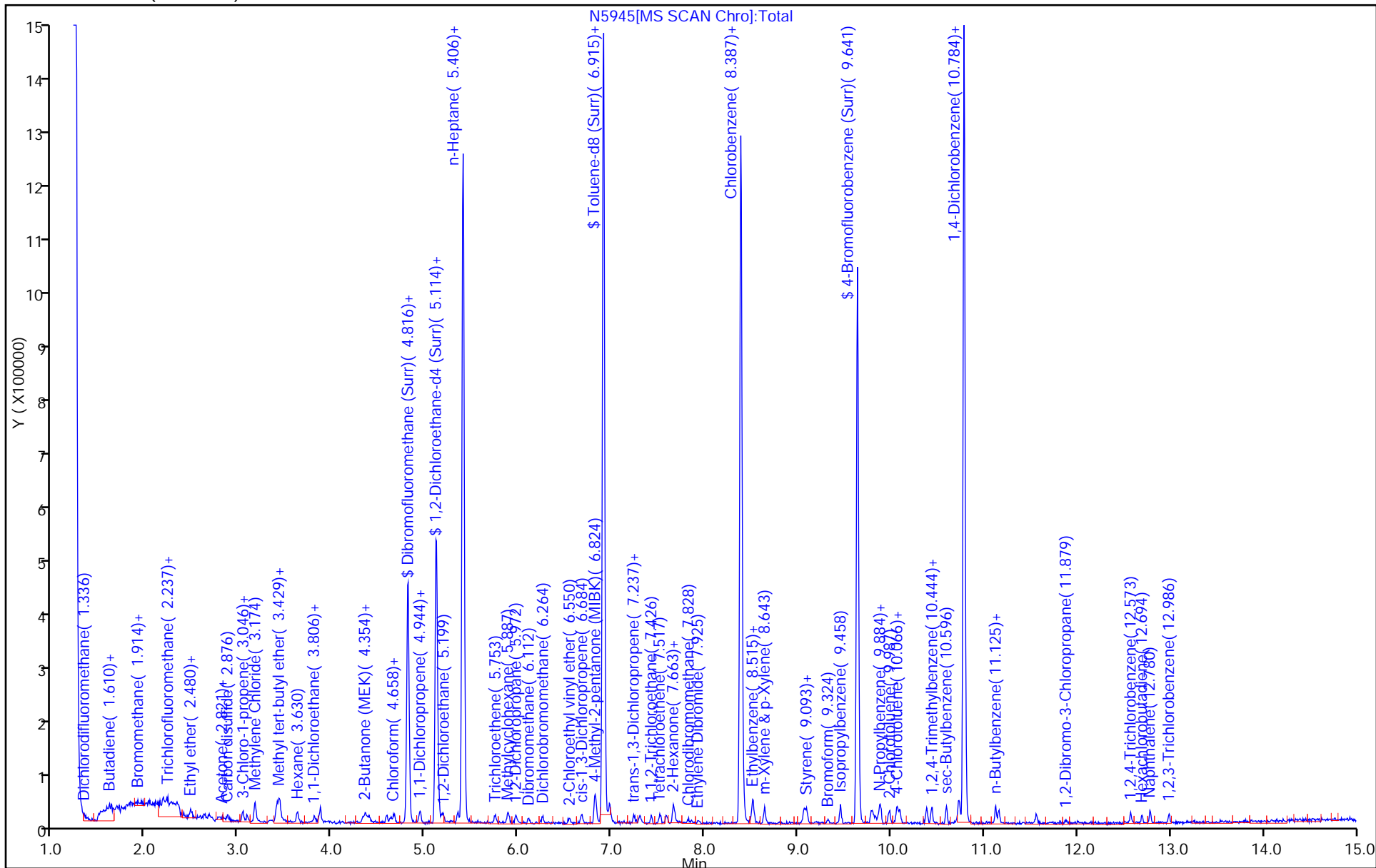
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

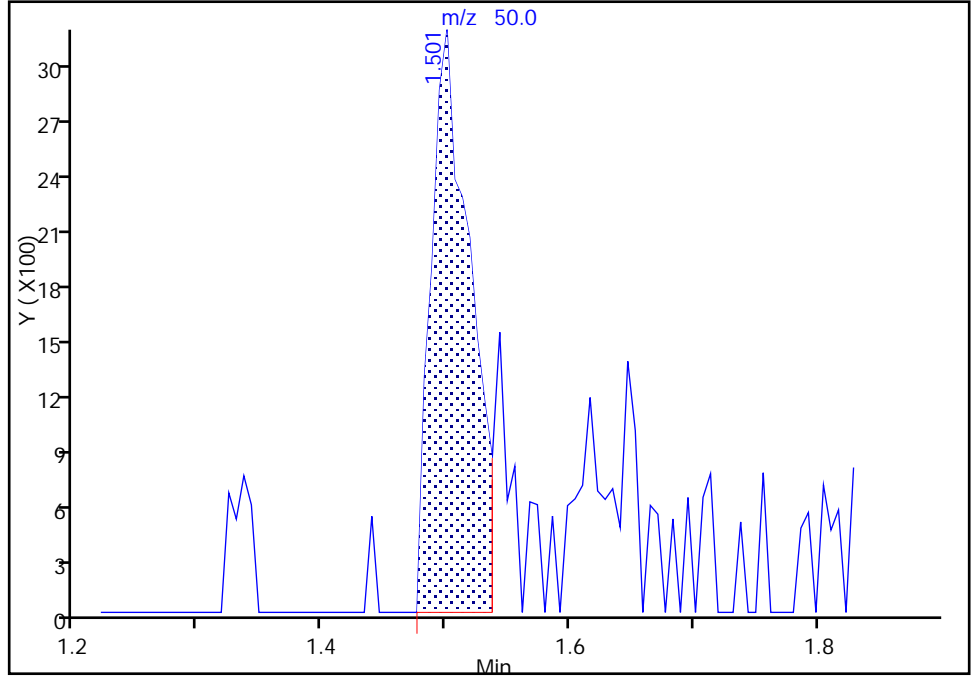
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Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

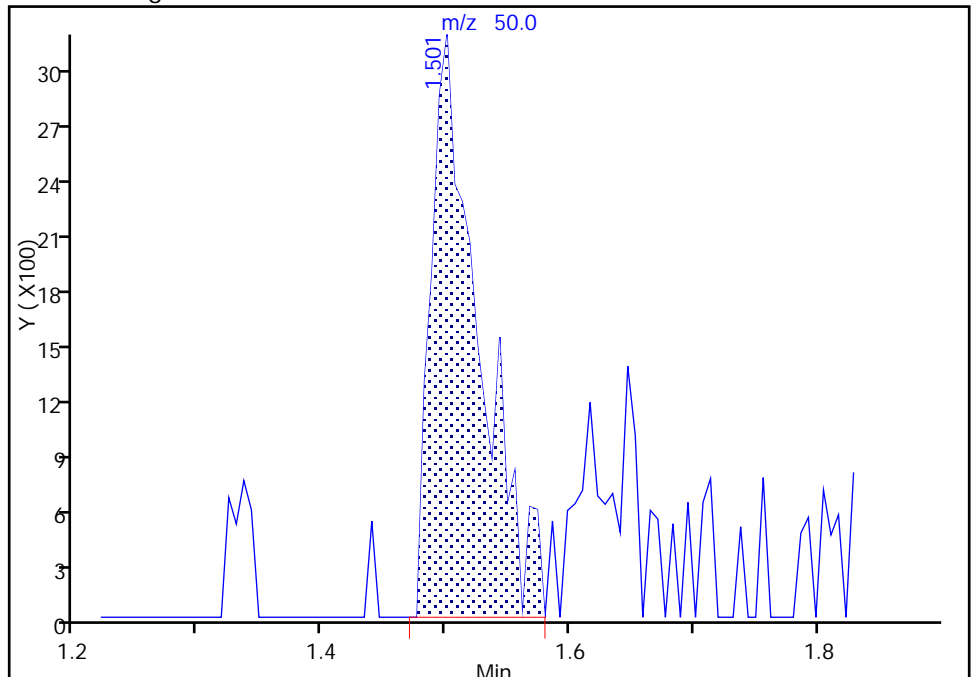
RT: 1.50
Area: 6907
Amount: 0.380496
Amount Units: ug/L

Processing Integration Results



RT: 1.50
Area: 8380
Amount: 0.446399
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:11:43
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

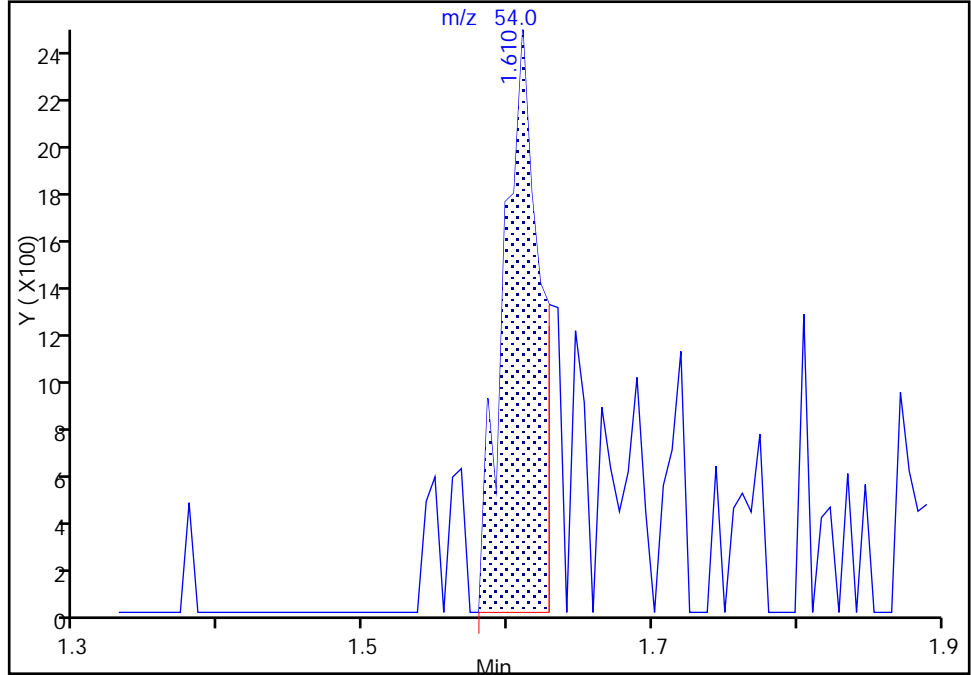
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Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

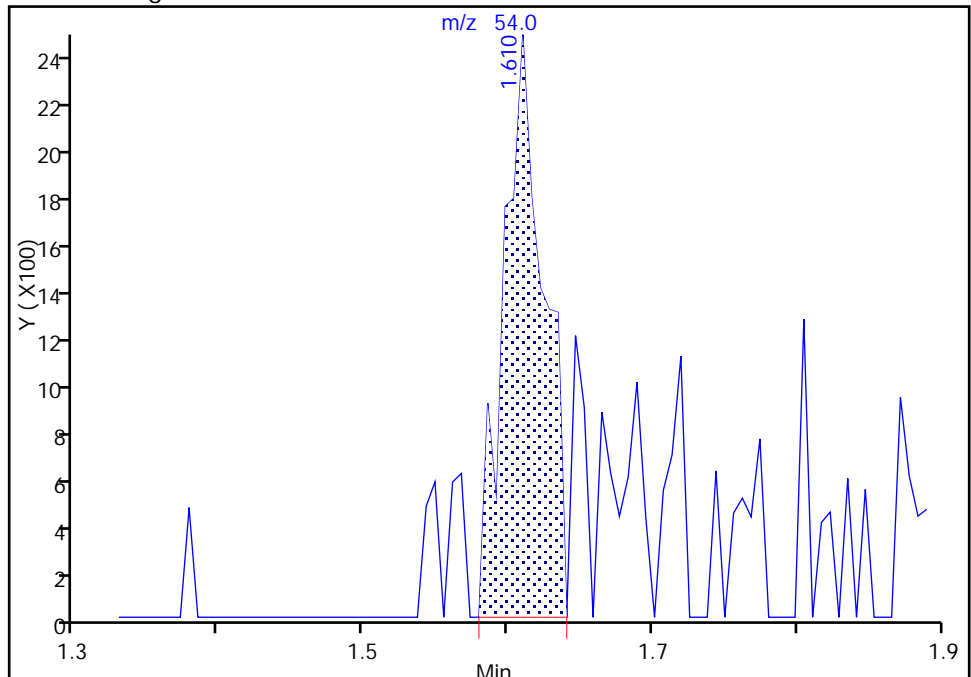
RT: 1.61
Area: 4314
Amount: 0.307913
Amount Units: ug/L

Processing Integration Results



RT: 1.61
Area: 4783
Amount: 0.332435
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:22:44
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

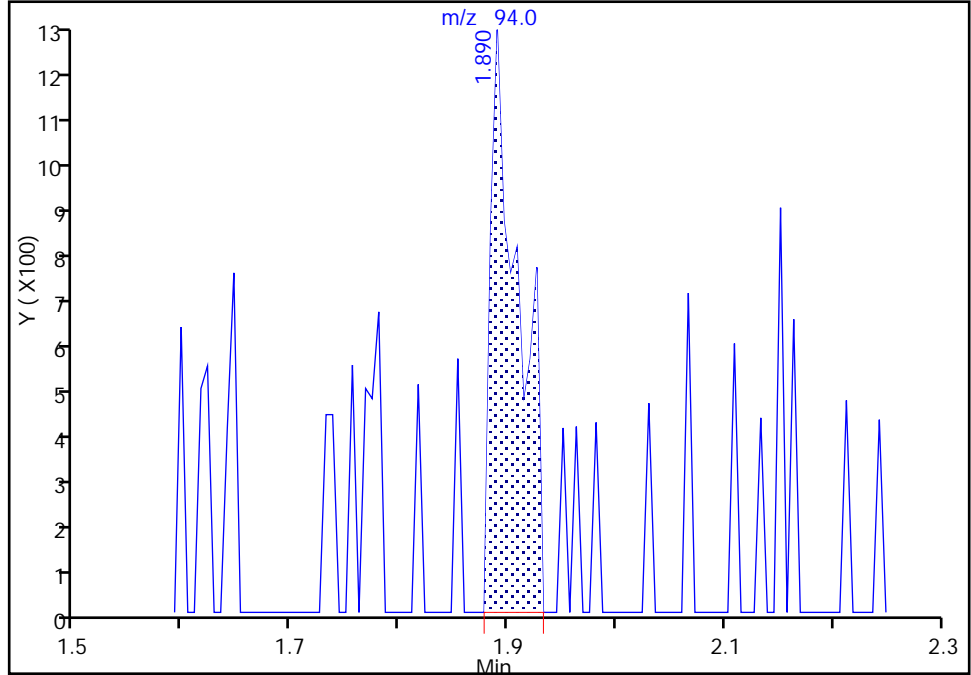
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Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

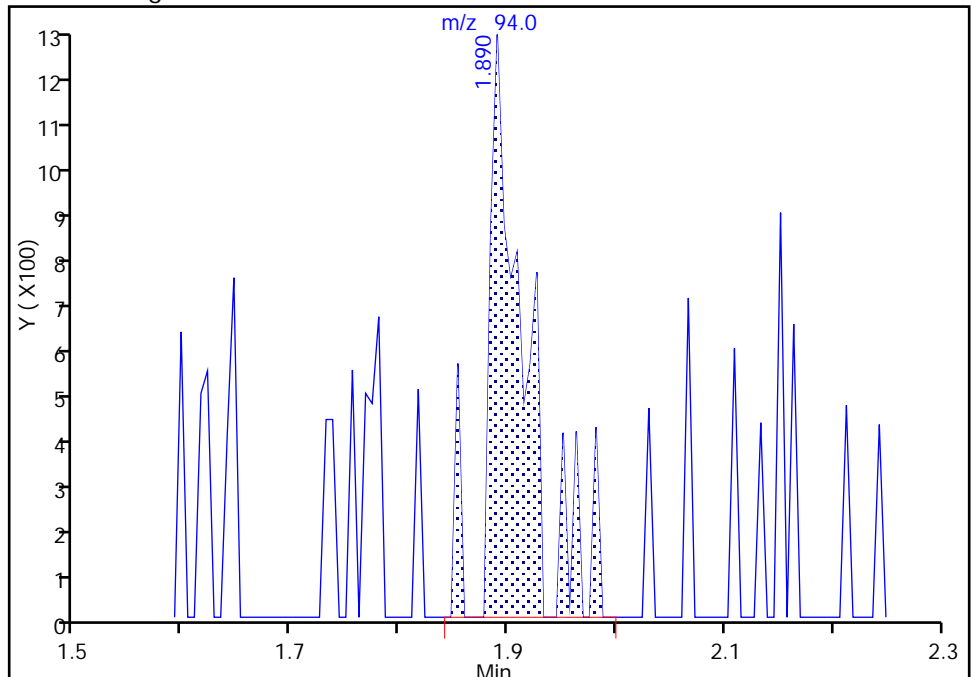
RT: 1.89
Area: 2286
Amount: 0.351214
Amount Units: ug/L

Processing Integration Results



RT: 1.89
Area: 2934
Amount: 0.456388
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:23:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

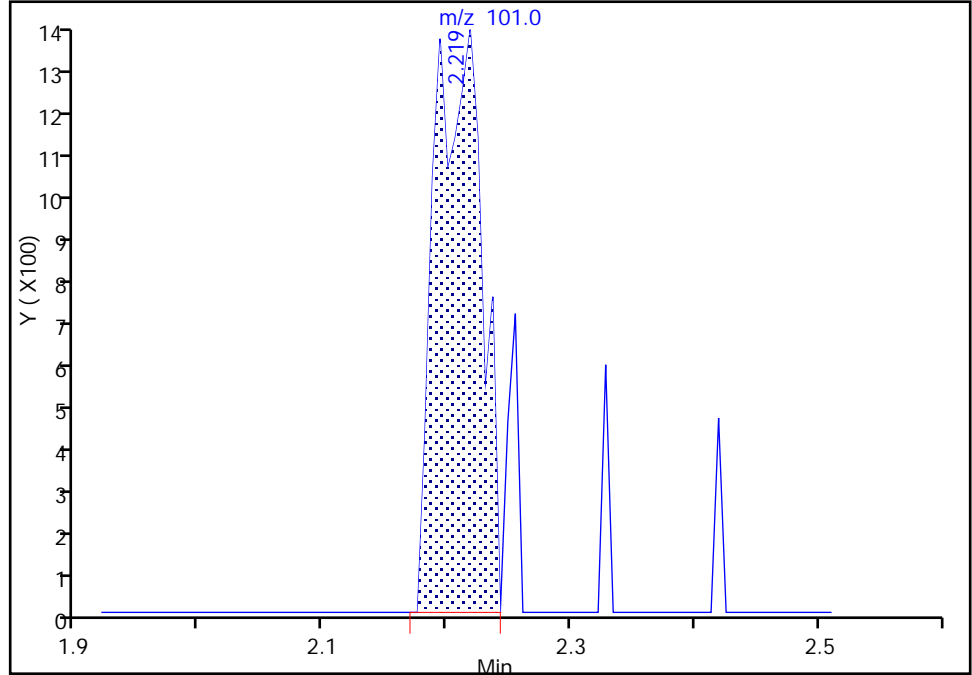
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

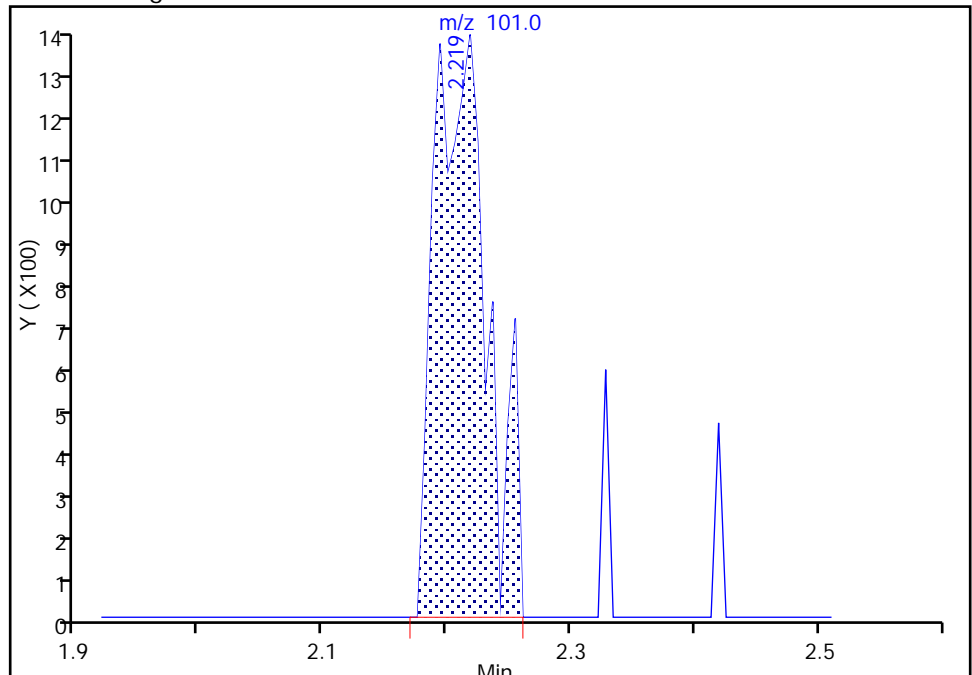
RT: 2.22
Area: 3563
Amount: 0.425713
Amount Units: ug/L

Processing Integration Results



RT: 2.22
Area: 3975
Amount: 0.313377
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:26:56
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

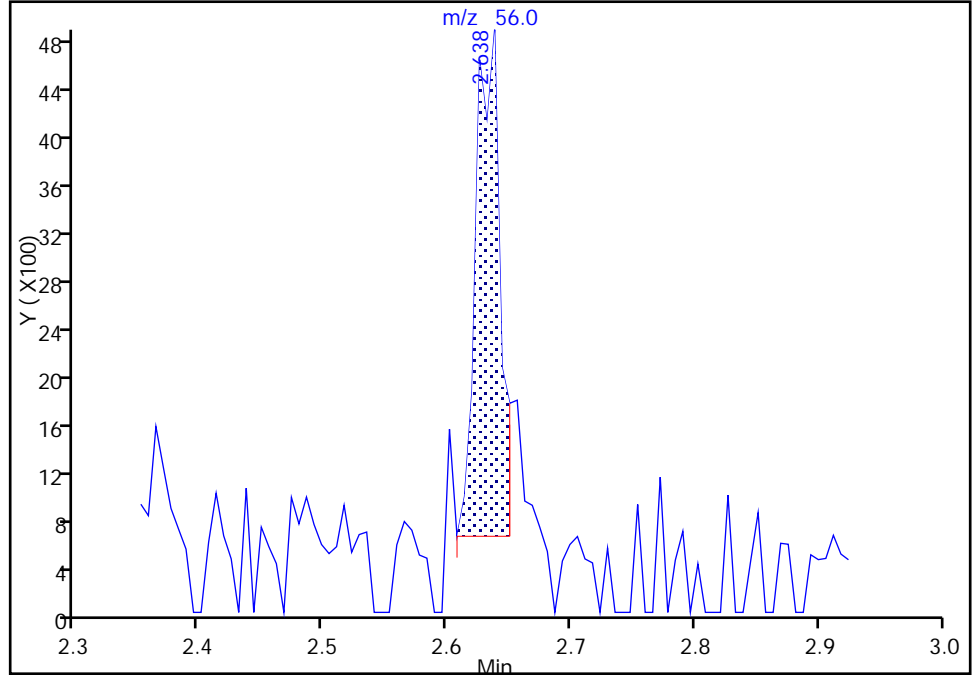
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

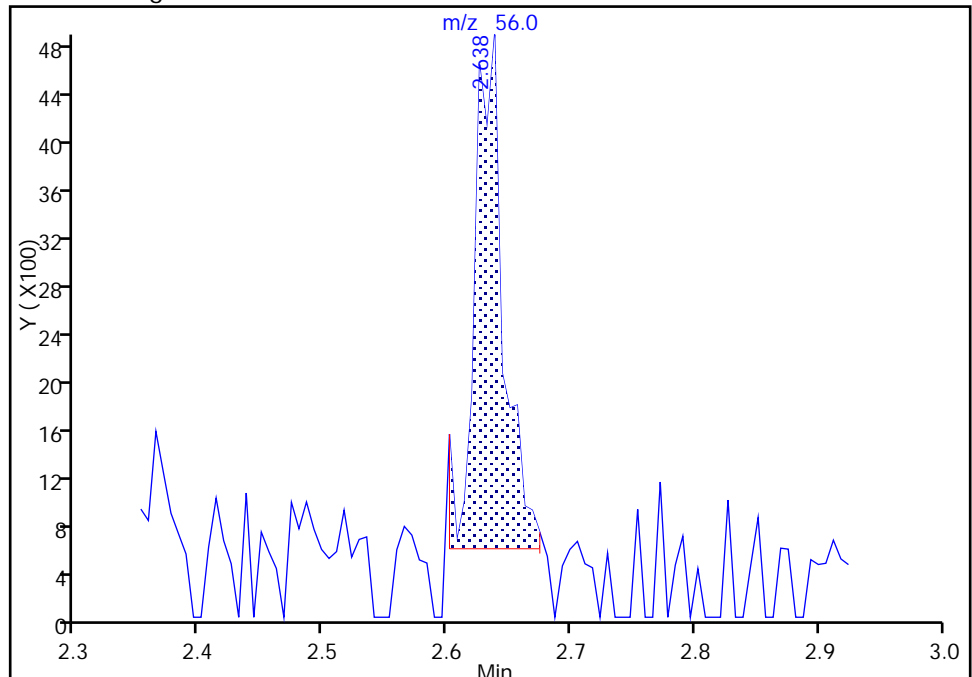
RT: 2.64
Area: 5682
Amount: 1.963420
Amount Units: ug/L

Processing Integration Results



RT: 2.64
Area: 6941
Amount: 2.412651
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:29:27
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

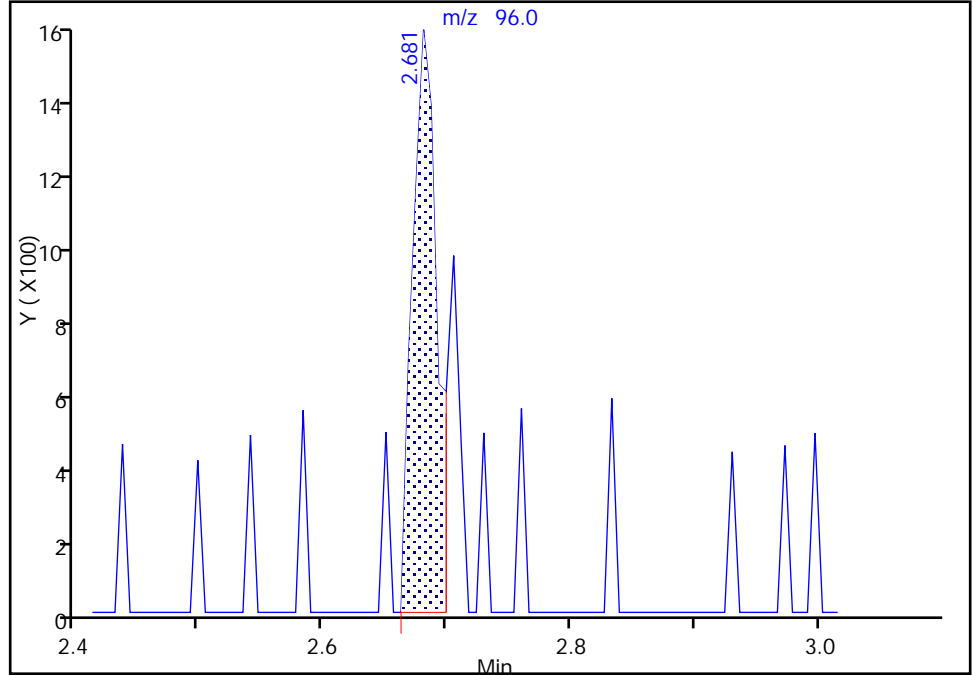
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

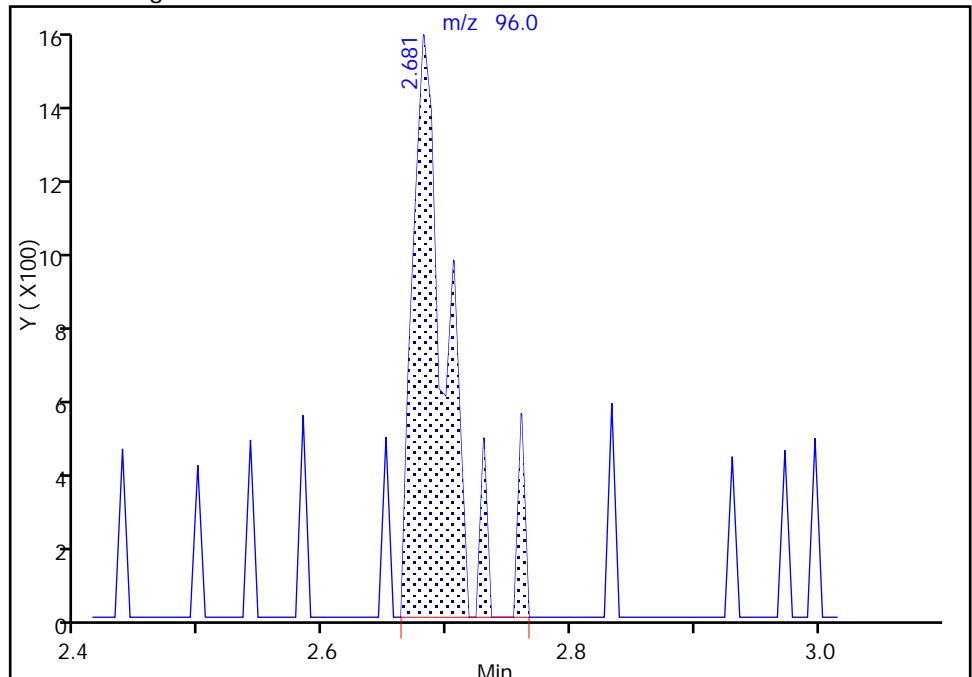
RT: 2.68
Area: 2184
Amount: 0.355774
Amount Units: ug/L

Processing Integration Results



RT: 2.68
Area: 3078
Amount: 0.464793
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:40:15
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

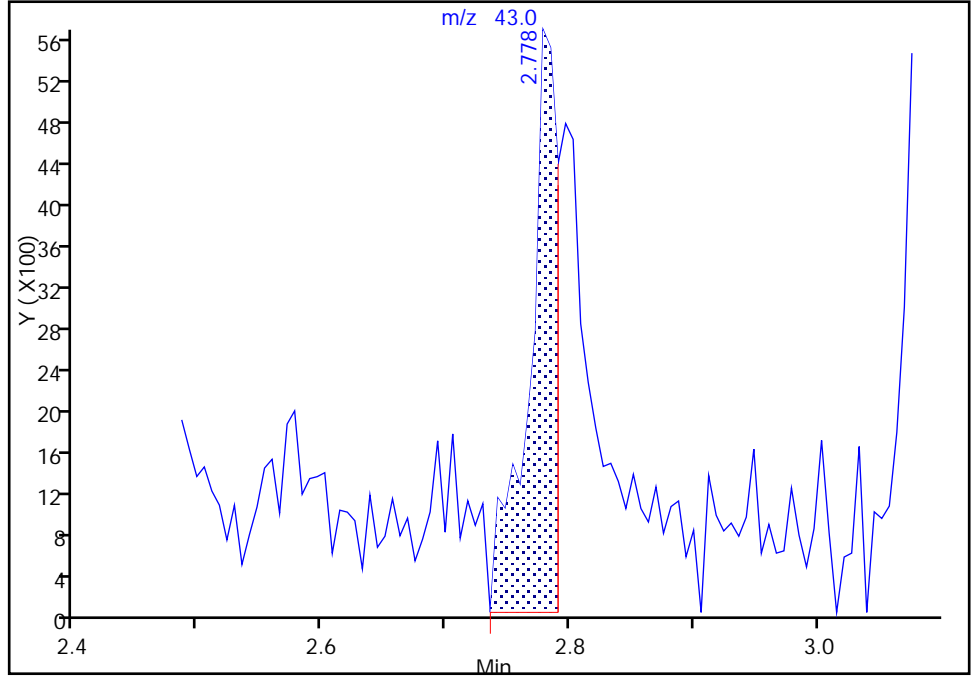
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

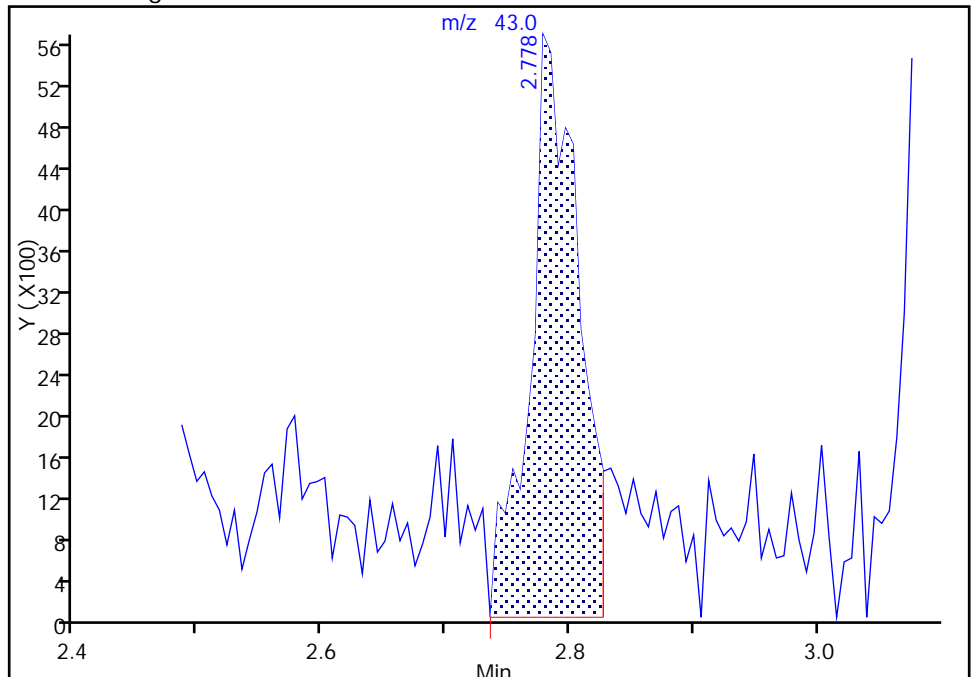
RT: 2.78
Area: 9075
Amount: 2.332170
Amount Units: ug/L

Processing Integration Results



RT: 2.78
Area: 15482
Amount: 4.091694
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:43:16
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

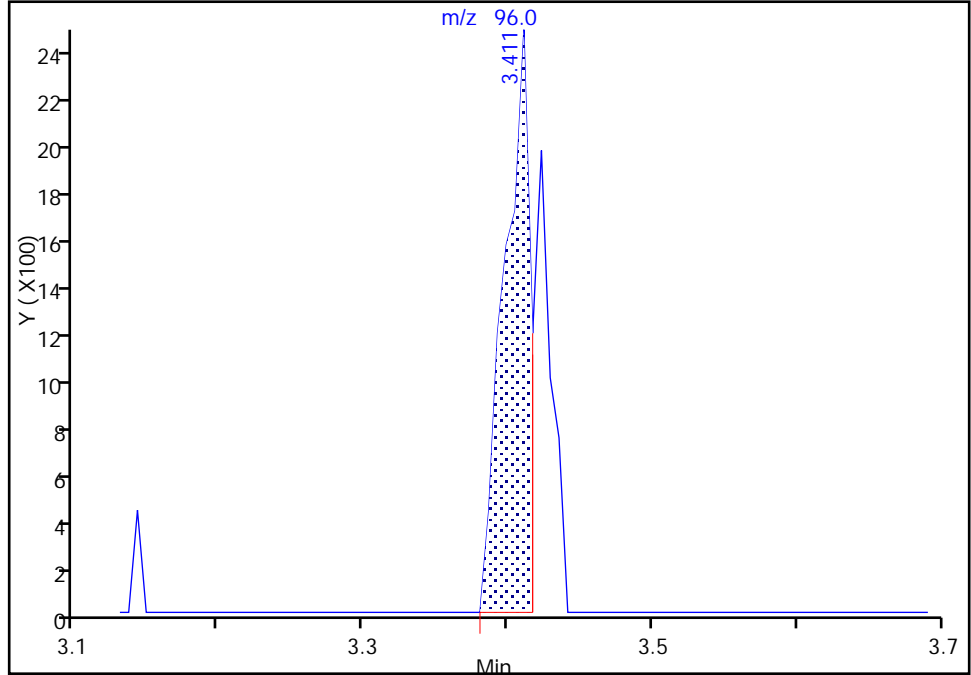
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

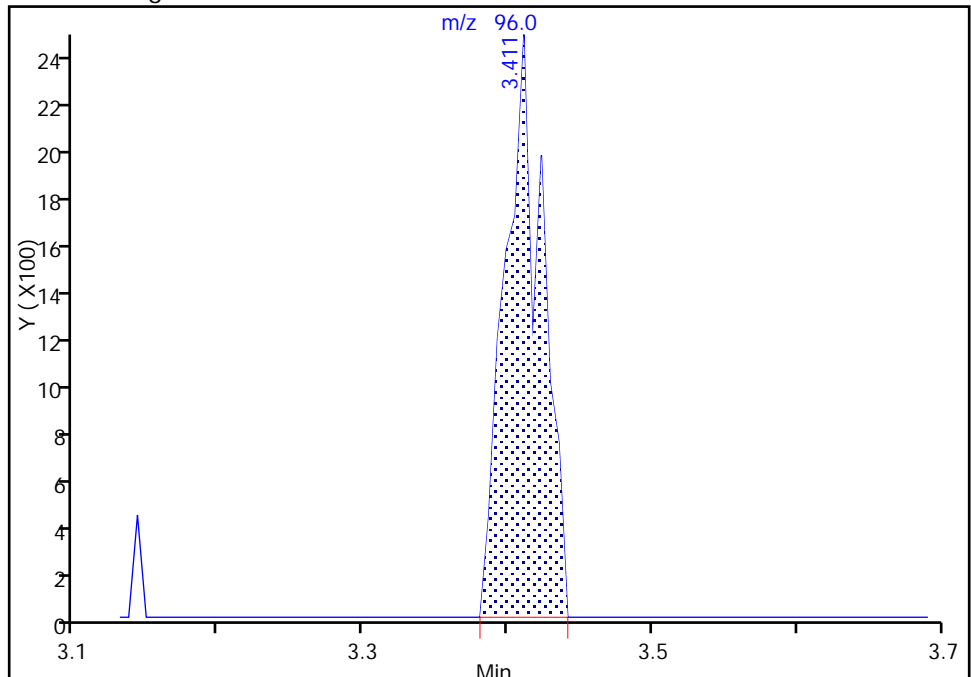
RT: 3.41
Area: 3126
Amount: 0.408331
Amount Units: ug/L

Processing Integration Results



RT: 3.41
Area: 4480
Amount: 0.570261
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:52:53
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

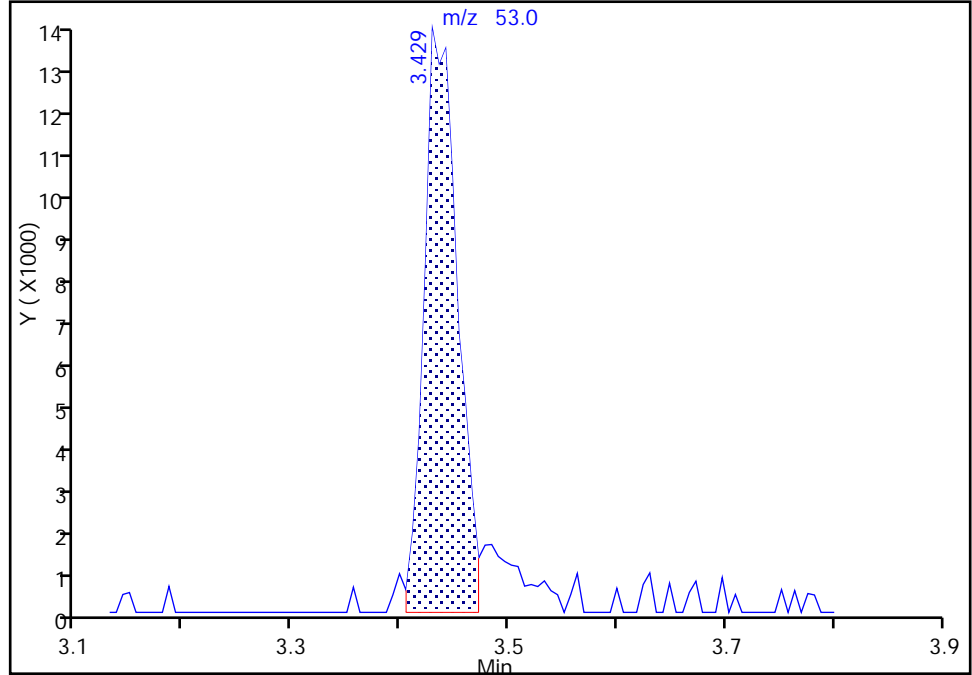
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

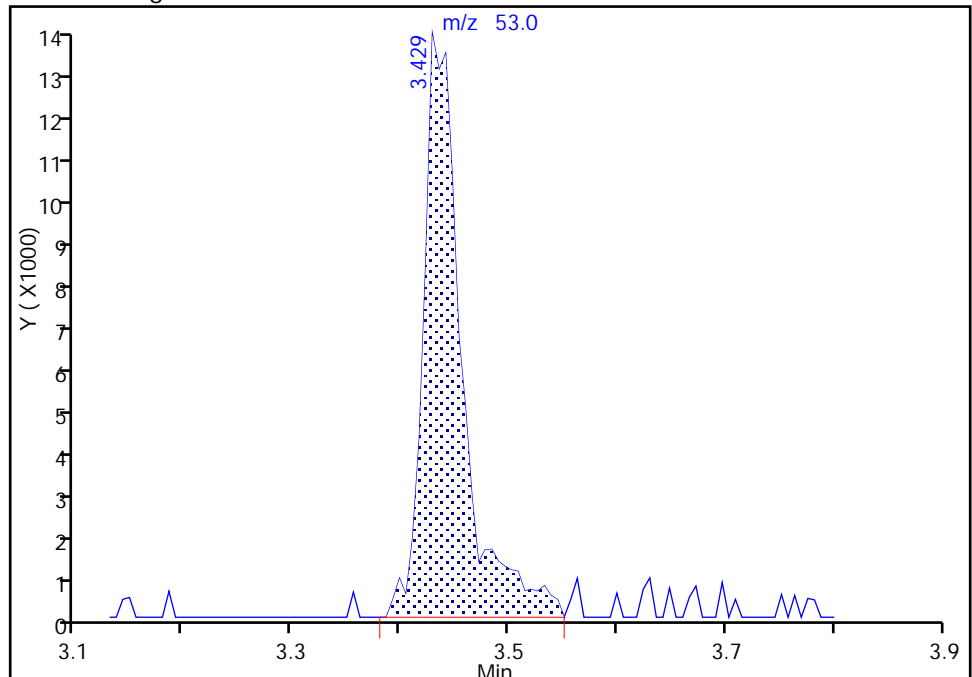
RT: 3.43
Area: 29544
Amount: 4.759826
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 34207
Amount: 5.214769
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:03:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

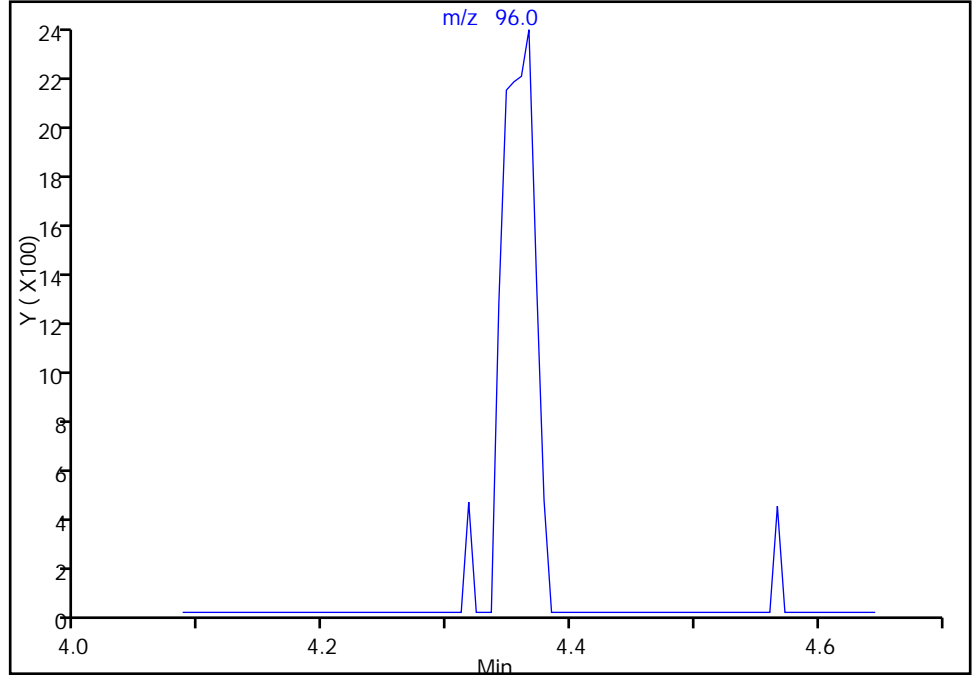
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

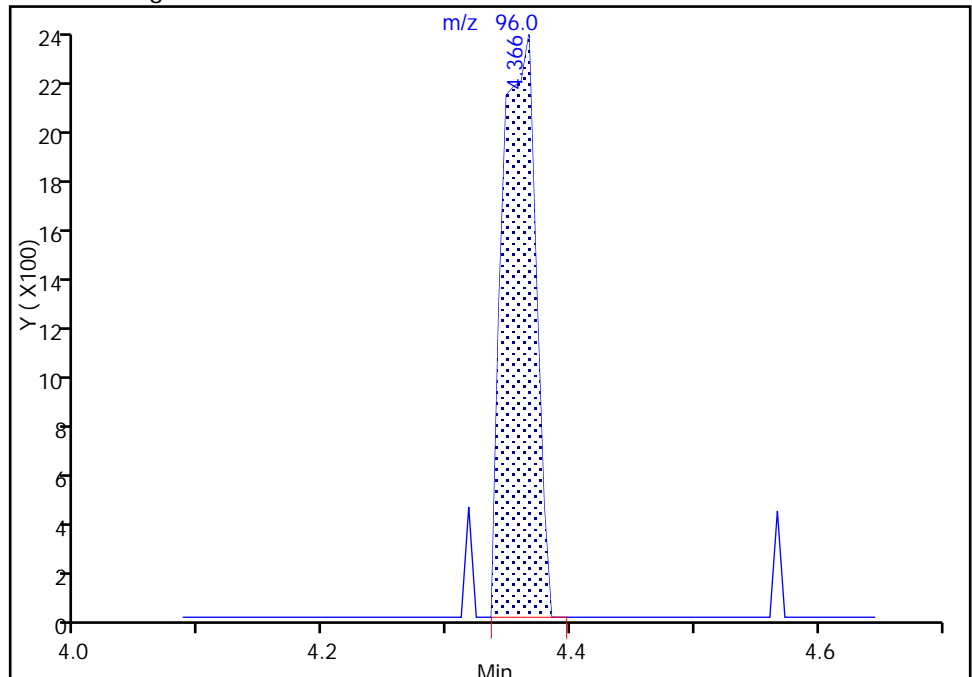
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 4242
Amount: 0.464713
Amount Units: ug/L



Reviewer: sonkera, 02-Jan-2018 23:09:15
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

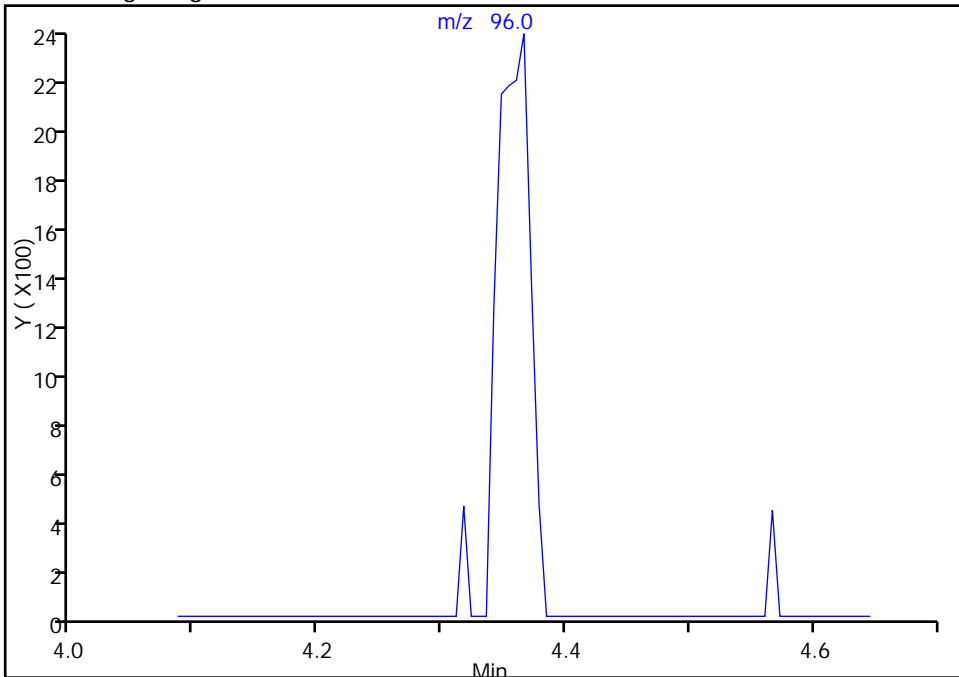
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

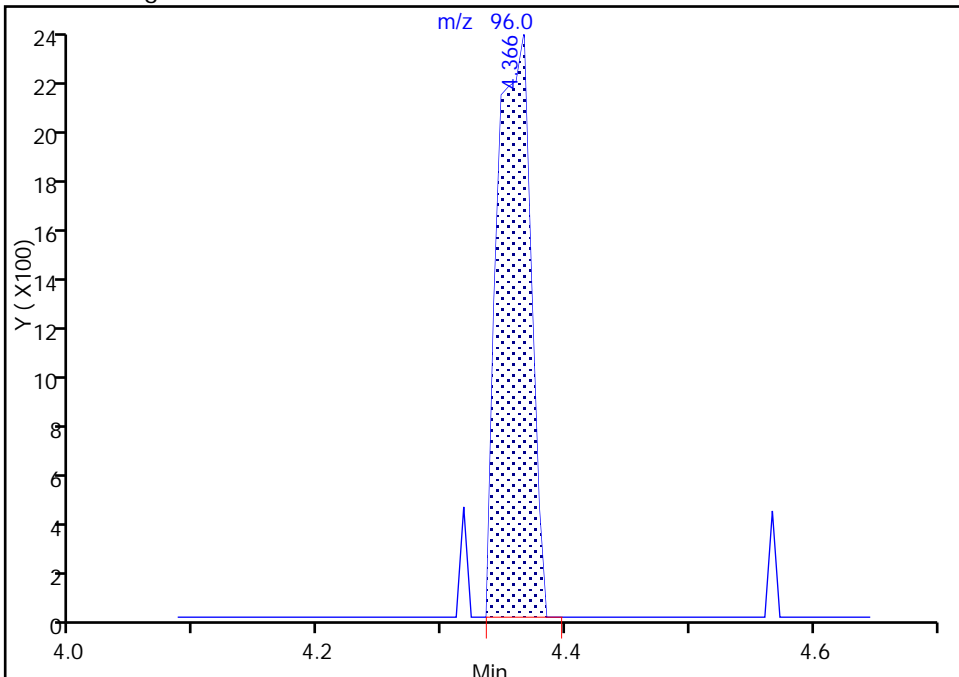
Not Detected
Expected RT: 4.36

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 4242
Amount: 0.464713
Amount Units: ug/L



TestAmerica Buffalo

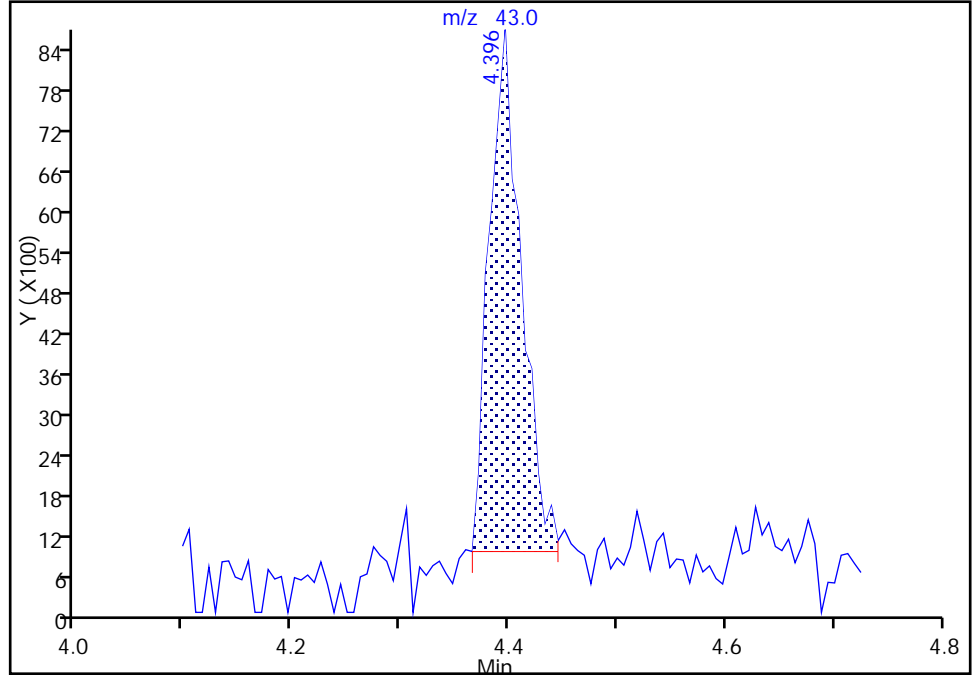
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

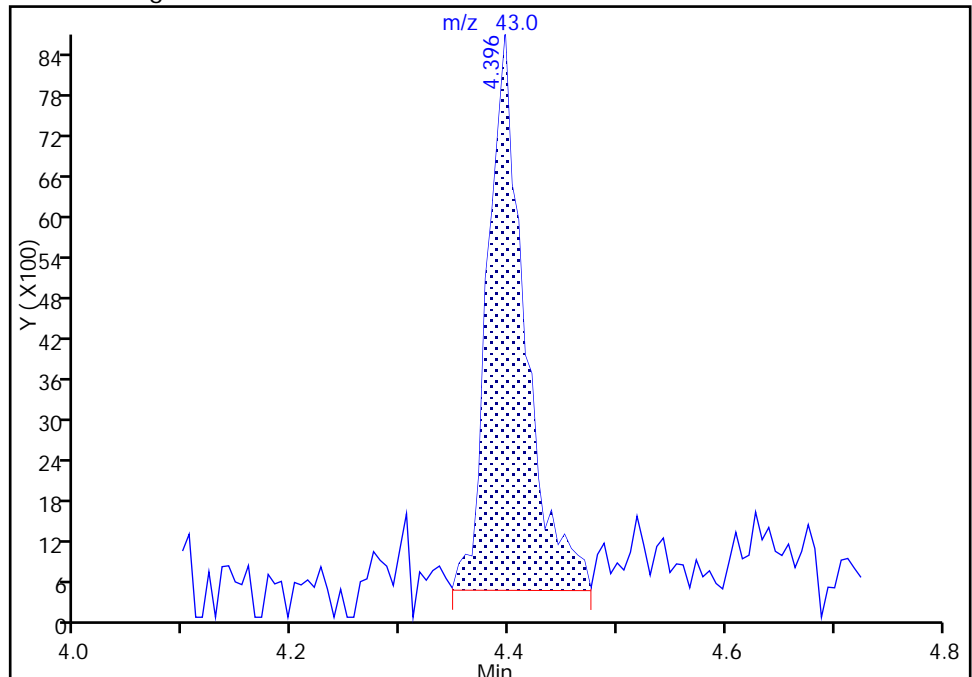
RT: 4.40
Area: 15807
Amount: 2.032886
Amount Units: ug/L

Processing Integration Results



RT: 4.40
Area: 19629
Amount: 2.421895
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:10:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

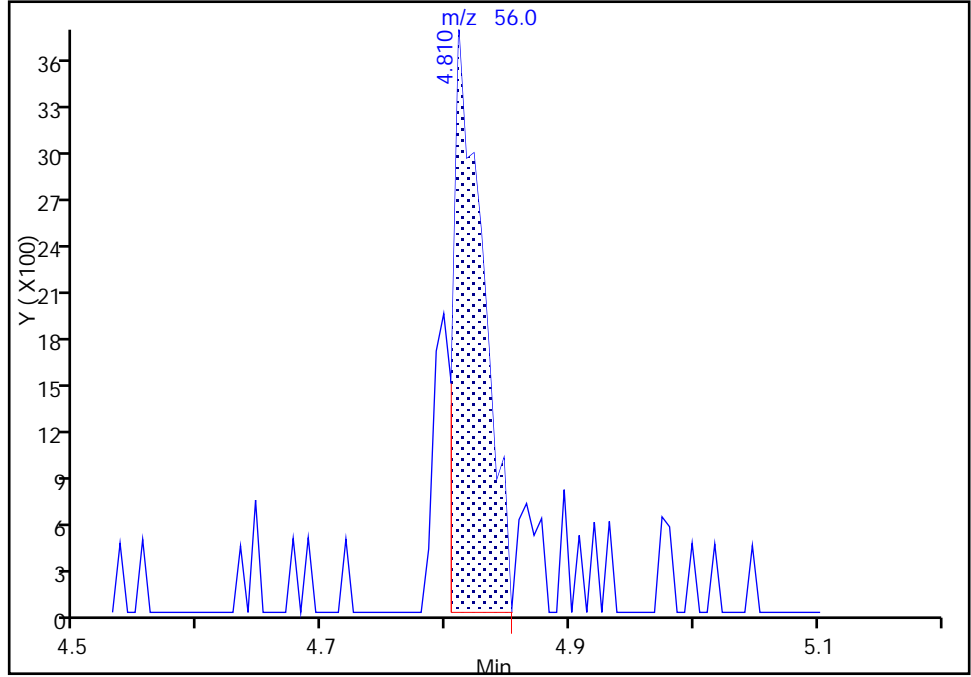
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

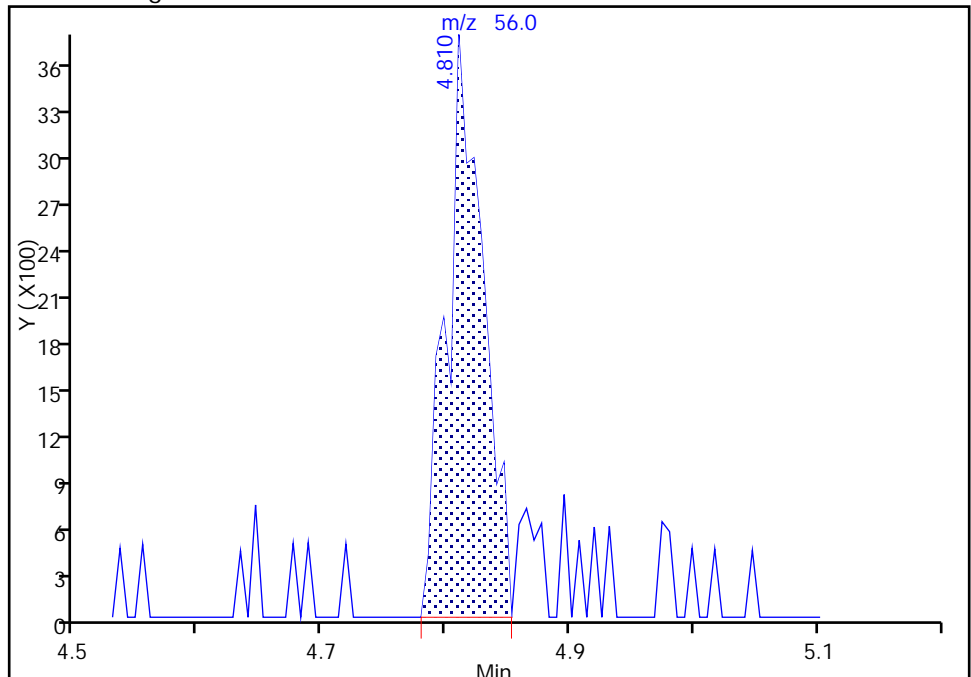
RT: 4.81
Area: 6234
Amount: 0.324919
Amount Units: ug/L

Processing Integration Results



RT: 4.81
Area: 7699
Amount: 0.395519
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:24:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

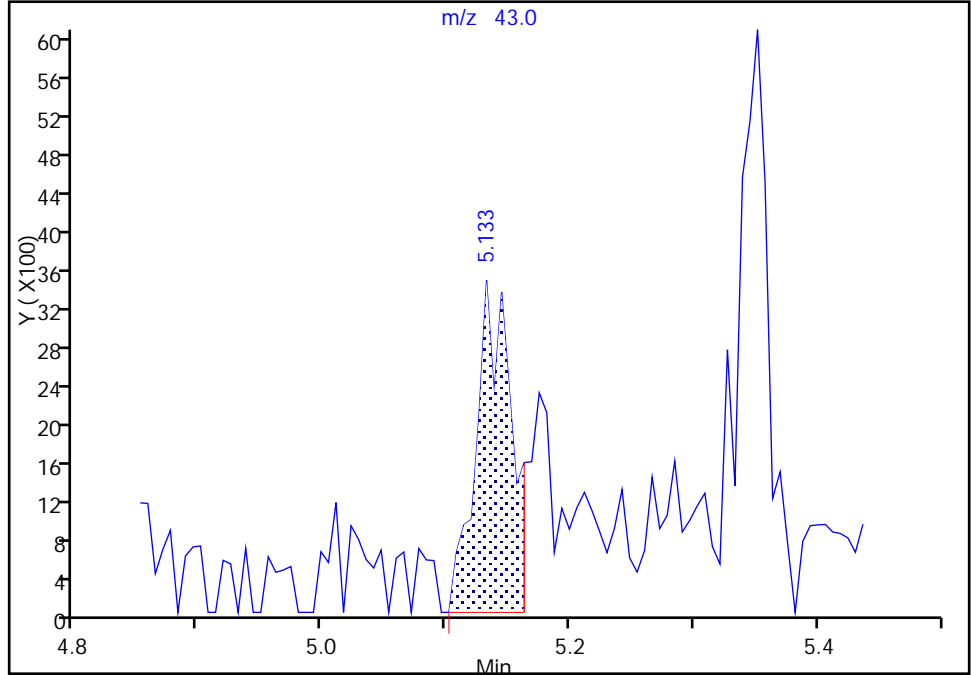
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

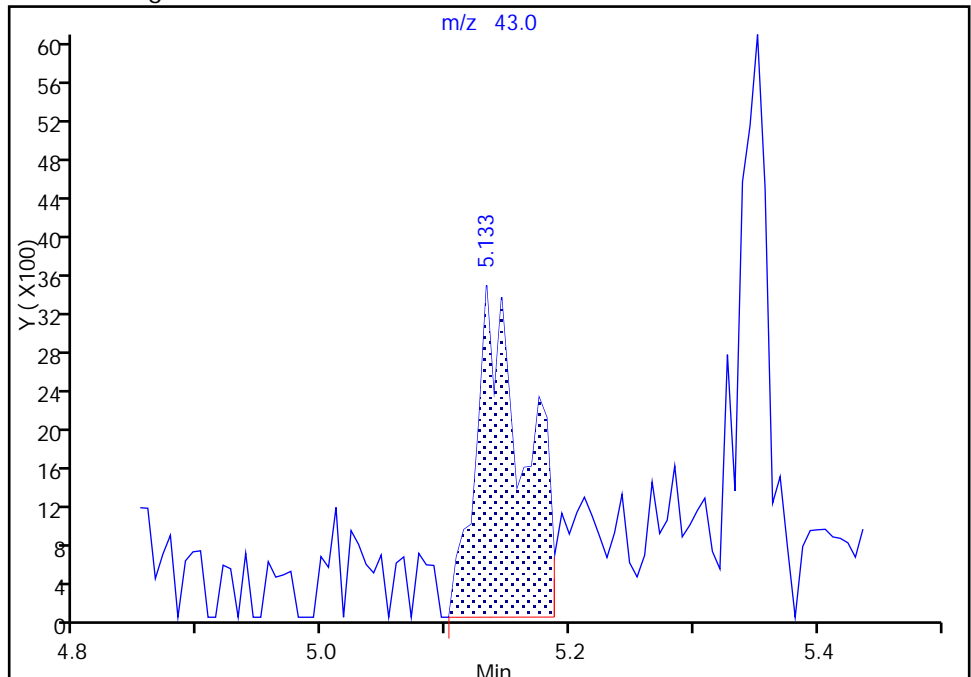
RT: 5.13
Area: 6851
Amount: 11.008388
Amount Units: ug/L

Processing Integration Results



RT: 5.13
Area: 9230
Amount: 14.582448
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:21:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

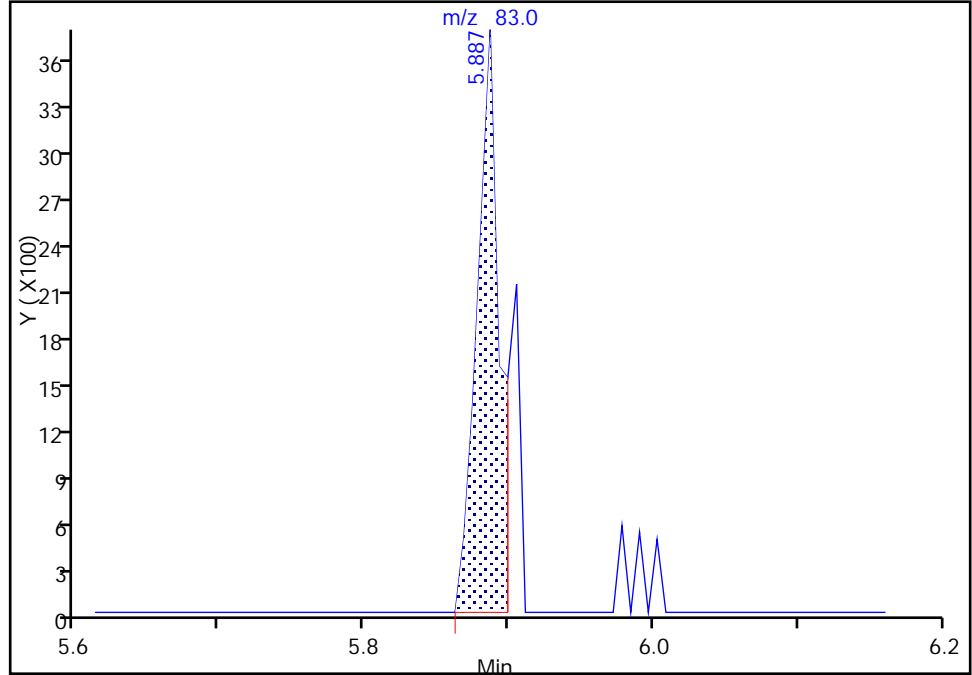
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

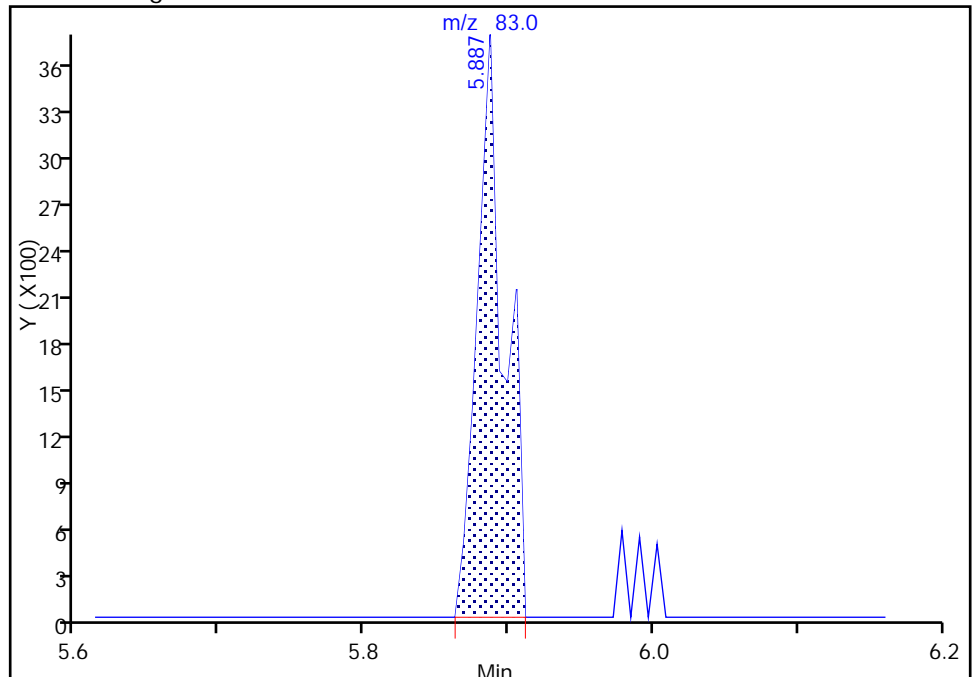
RT: 5.89
Area: 4061
Amount: 0.298313
Amount Units: ug/L

Processing Integration Results



RT: 5.89
Area: 4824
Amount: 0.354361
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:24:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

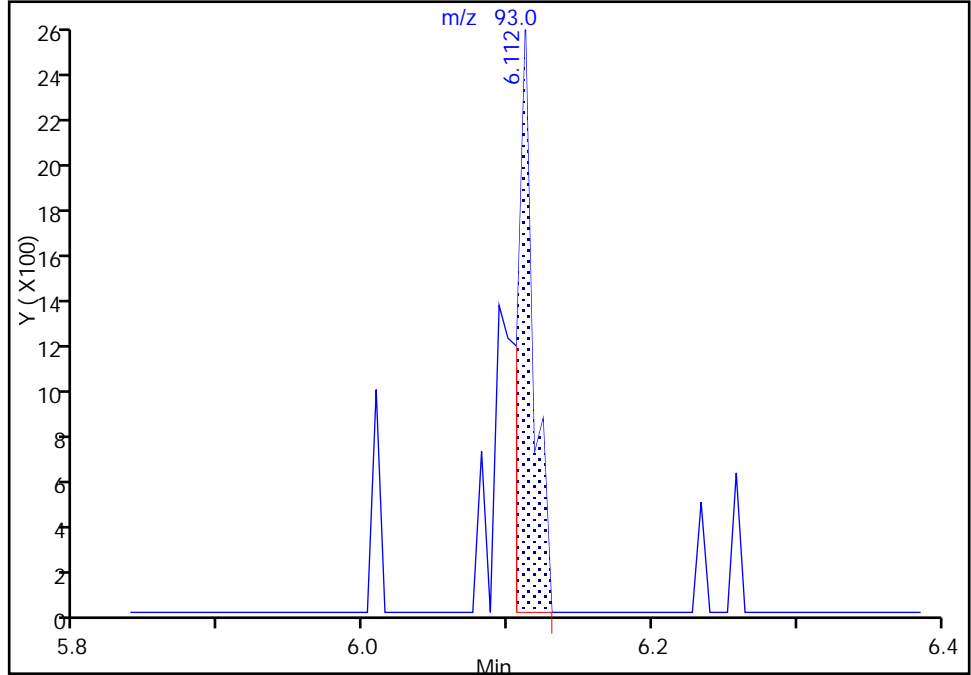
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

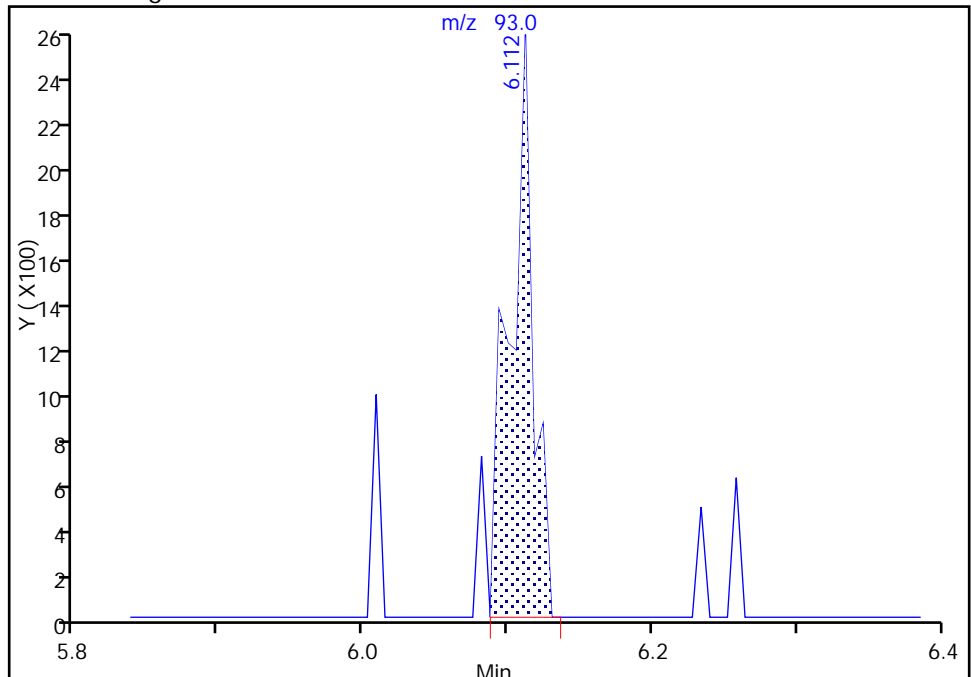
RT: 6.11
Area: 1891
Amount: 0.353829
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 2808
Amount: 0.501484
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:41:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

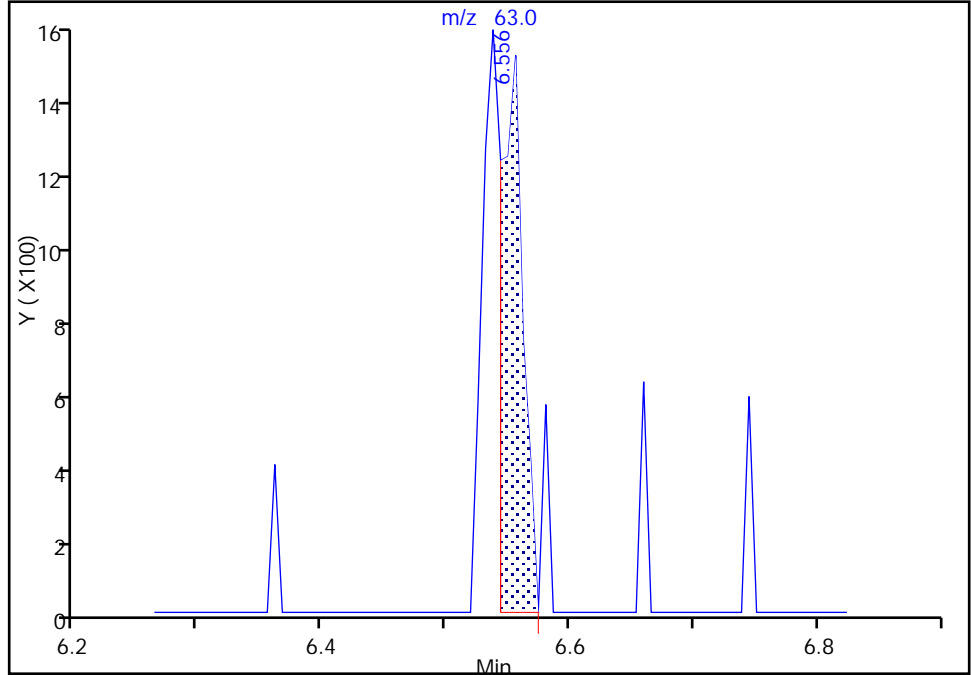
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

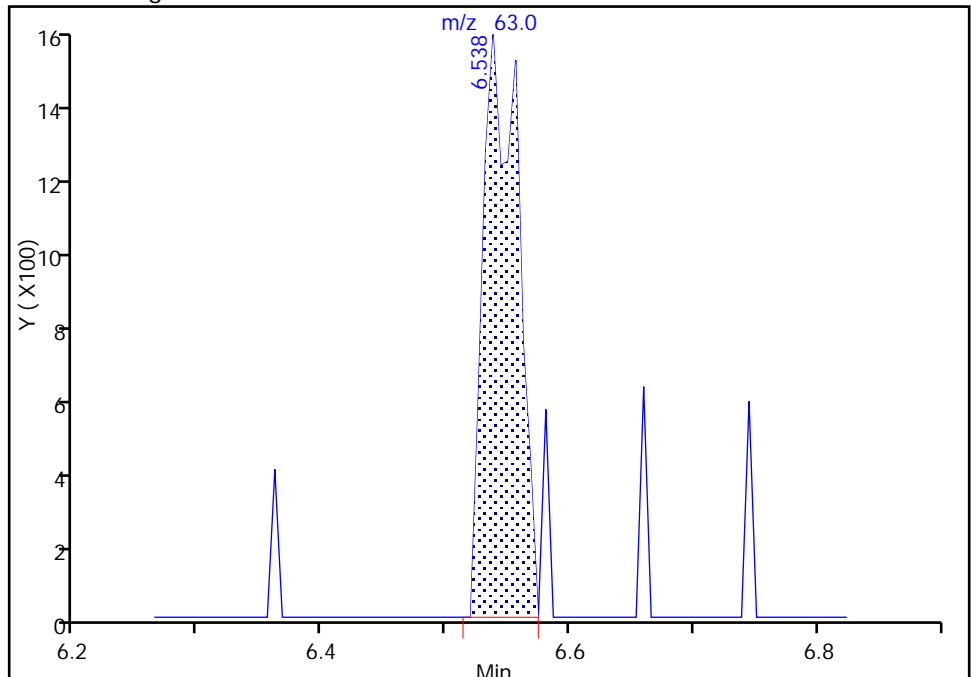
RT: 6.56
Area: 1876
Amount: 0.496891
Amount Units: ug/L

Processing Integration Results



RT: 6.54
Area: 3125
Amount: 0.442006
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:03:01
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

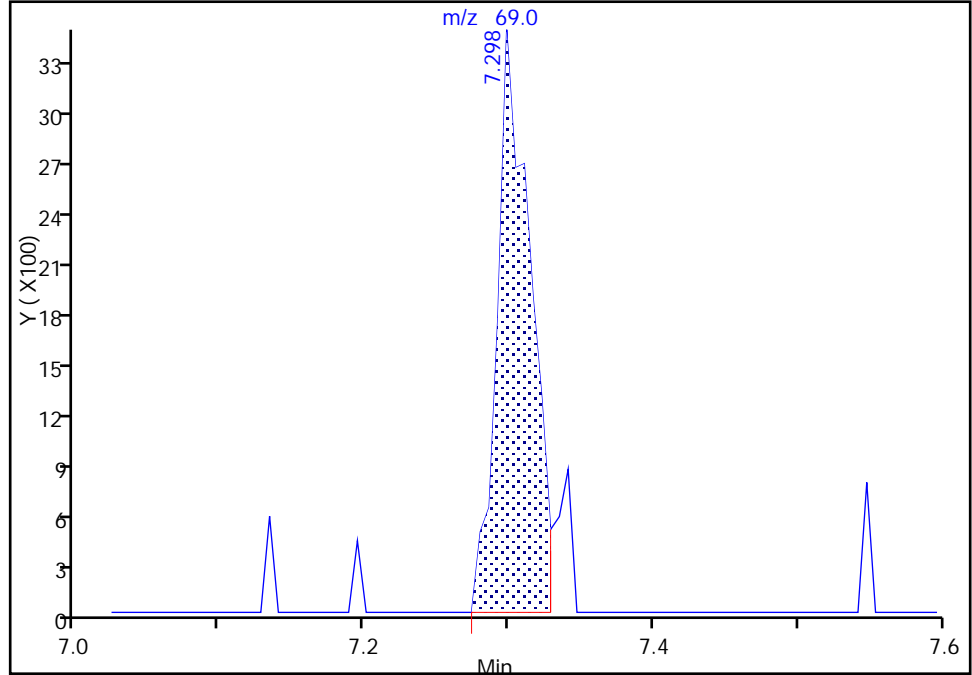
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

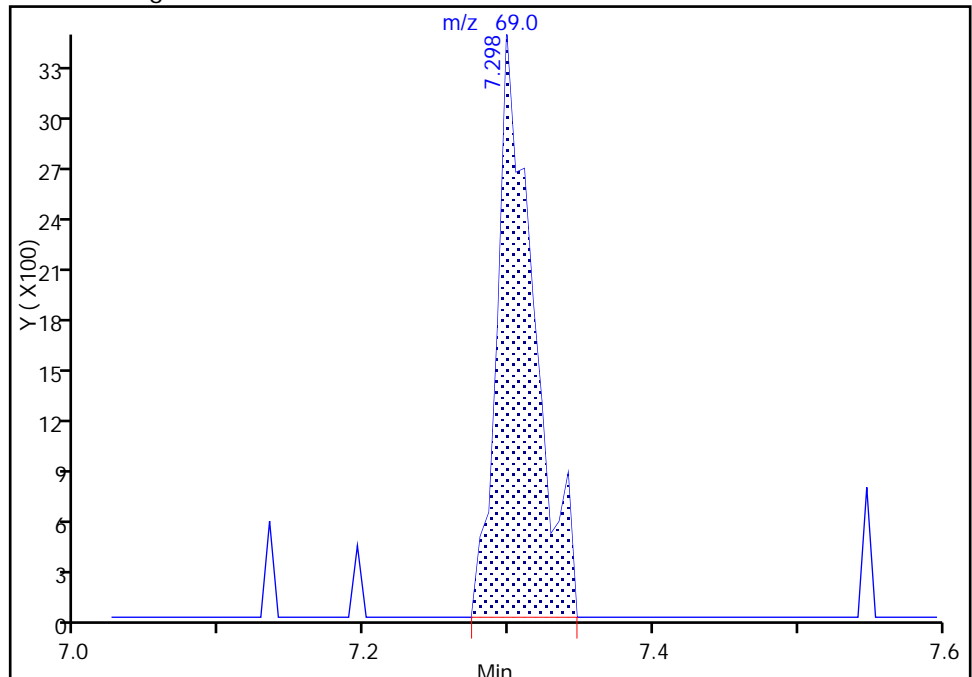
RT: 7.30
Area: 5501
Amount: 0.495083
Amount Units: ug/L

Processing Integration Results



RT: 7.30
Area: 6012
Amount: 0.534922
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:25:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

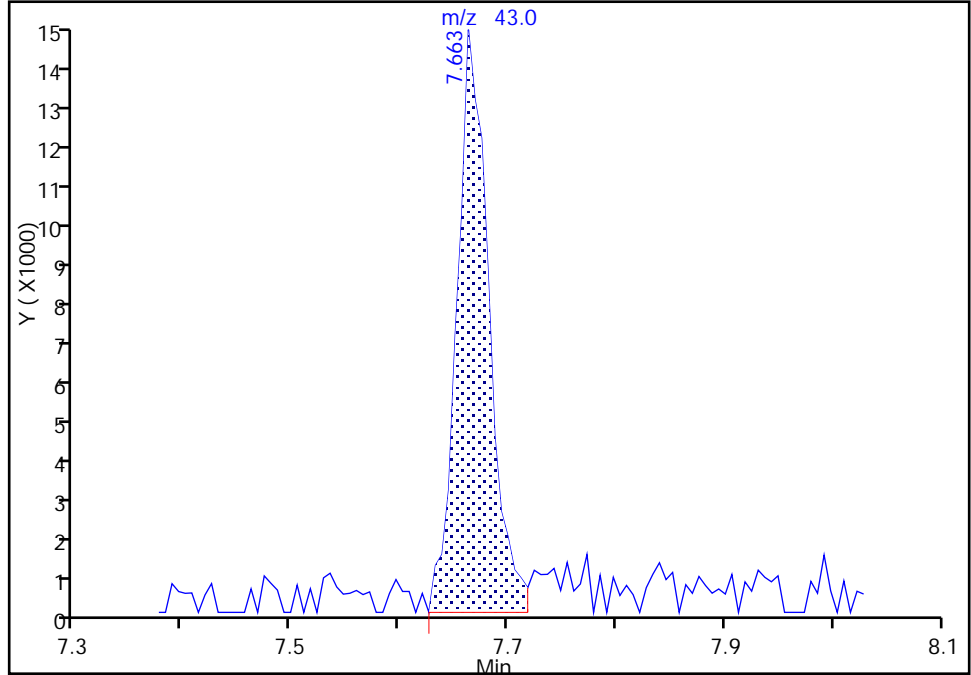
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

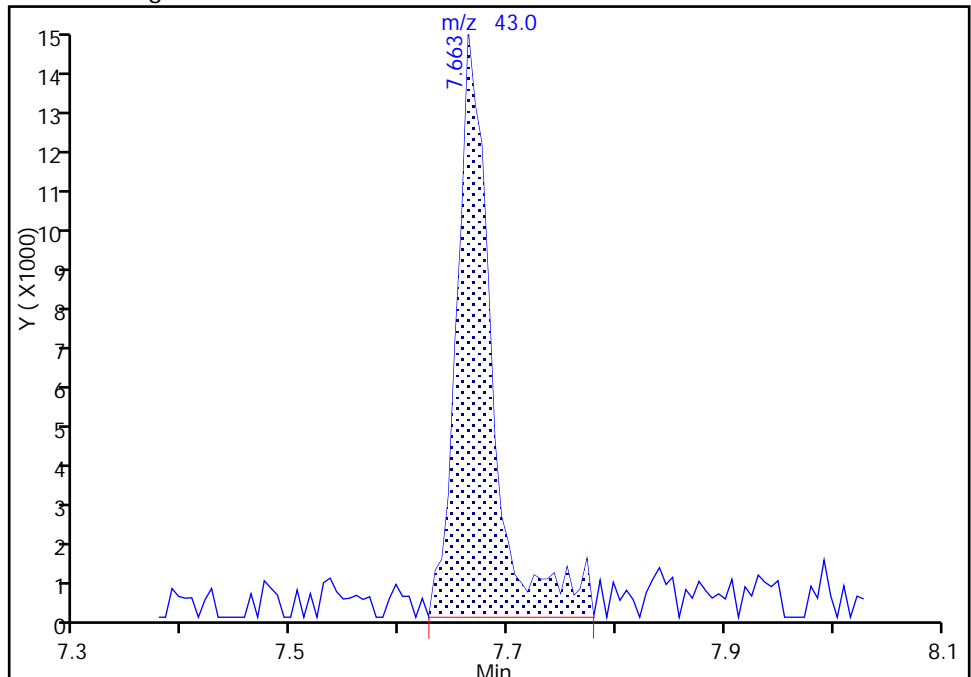
RT: 7.66
Area: 28956
Amount: 2.375903
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 31983
Amount: 2.509143
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:06:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

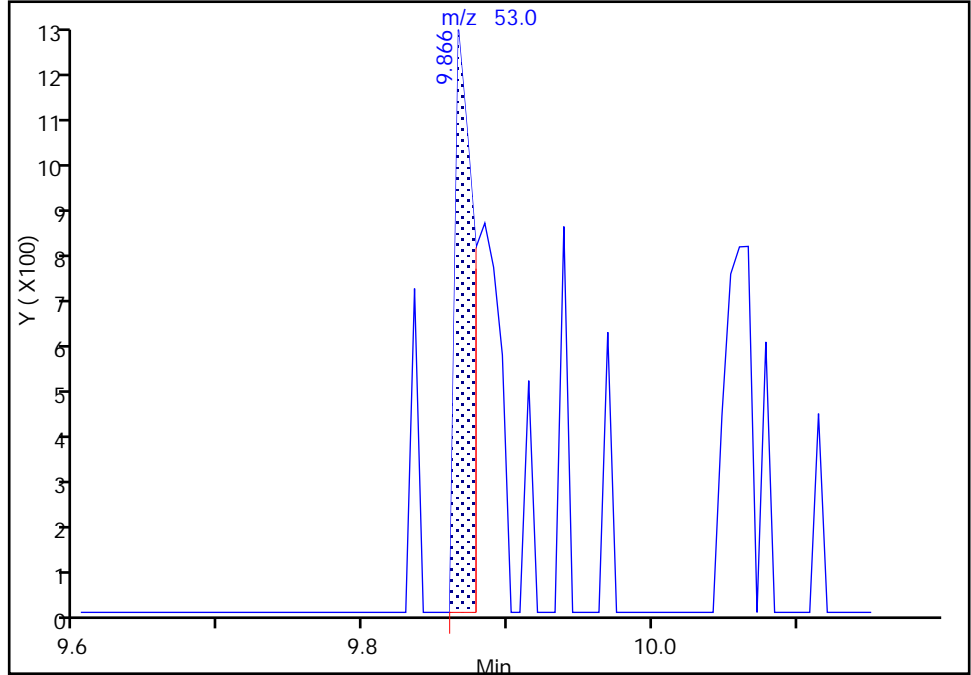
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

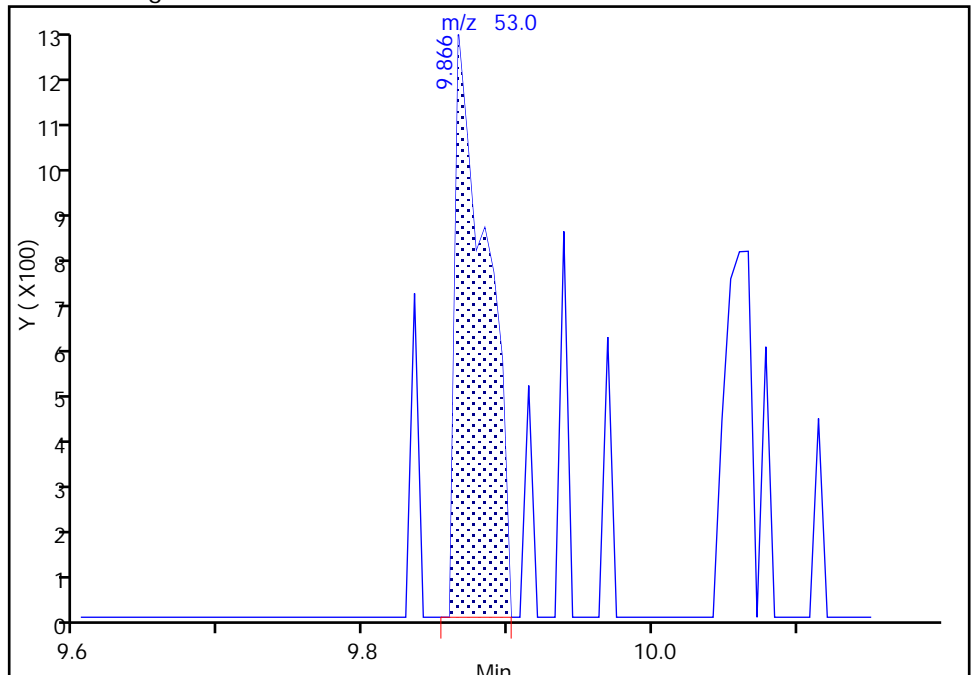
RT: 9.87
Area: 1077
Amount: 0.204279
Amount Units: ug/L

Processing Integration Results



RT: 9.87
Area: 1823
Amount: 0.343376
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:17:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

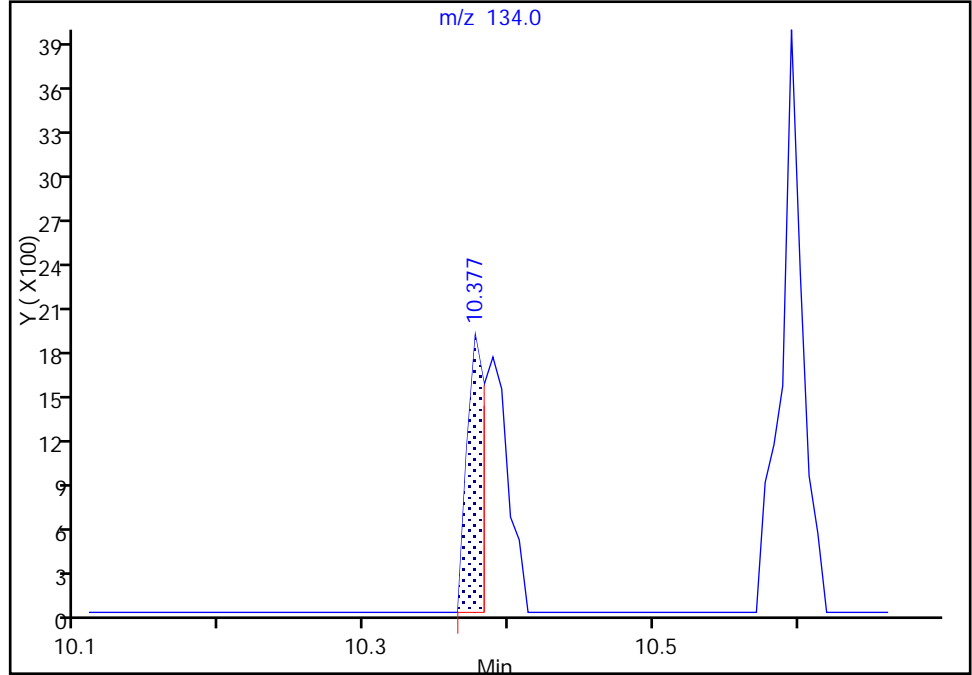
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

106 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

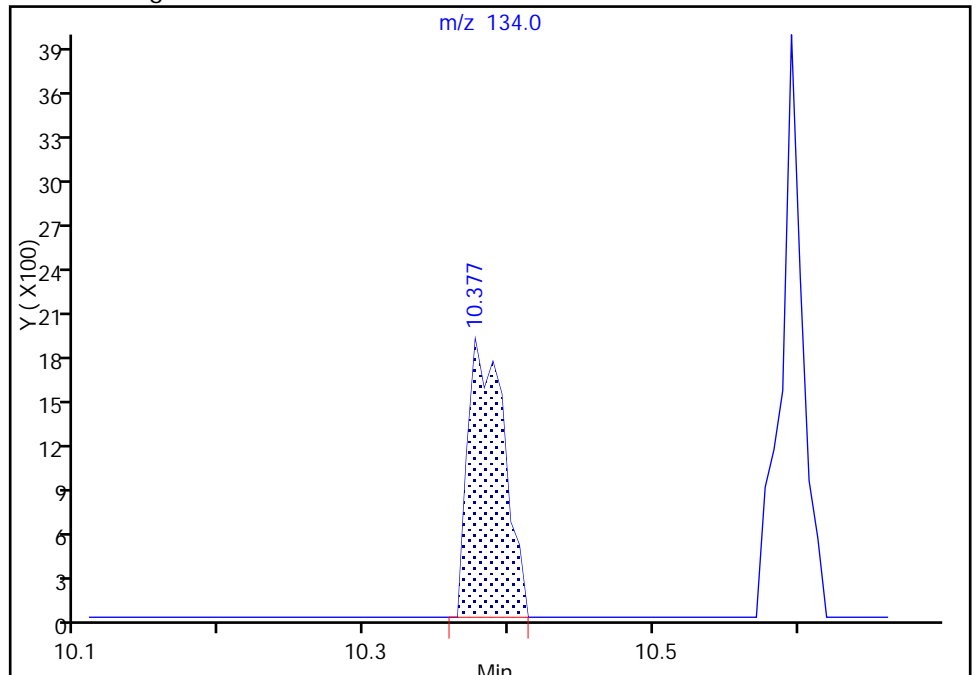
RT: 10.38
Area: 1640
Amount: 0.486902
Amount Units: ug/L

Processing Integration Results



RT: 10.38
Area: 3228
Amount: 0.422363
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:18:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

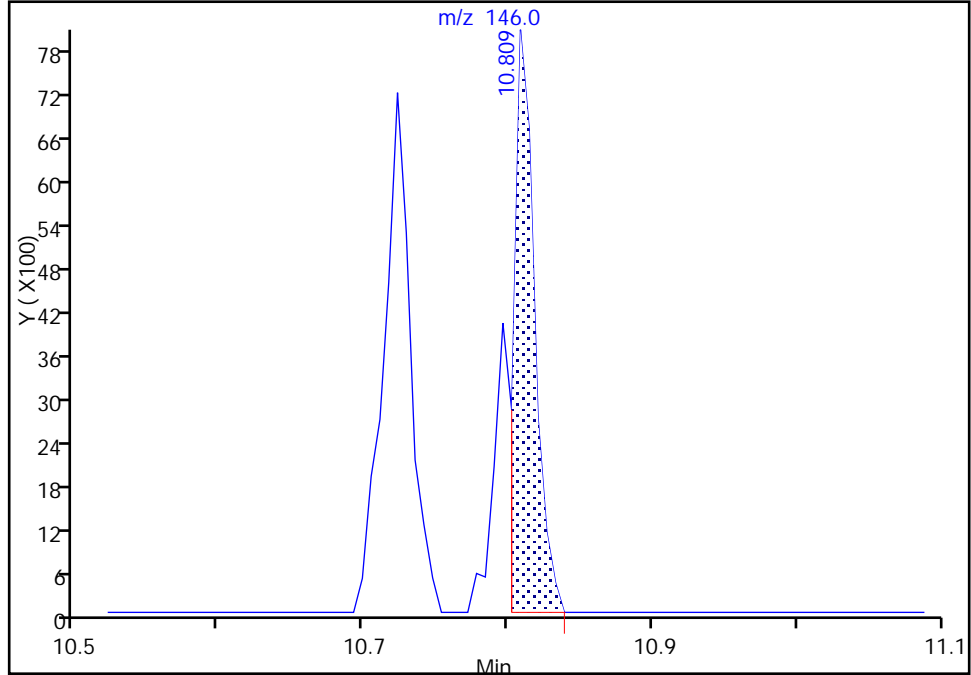
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5945.D
Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

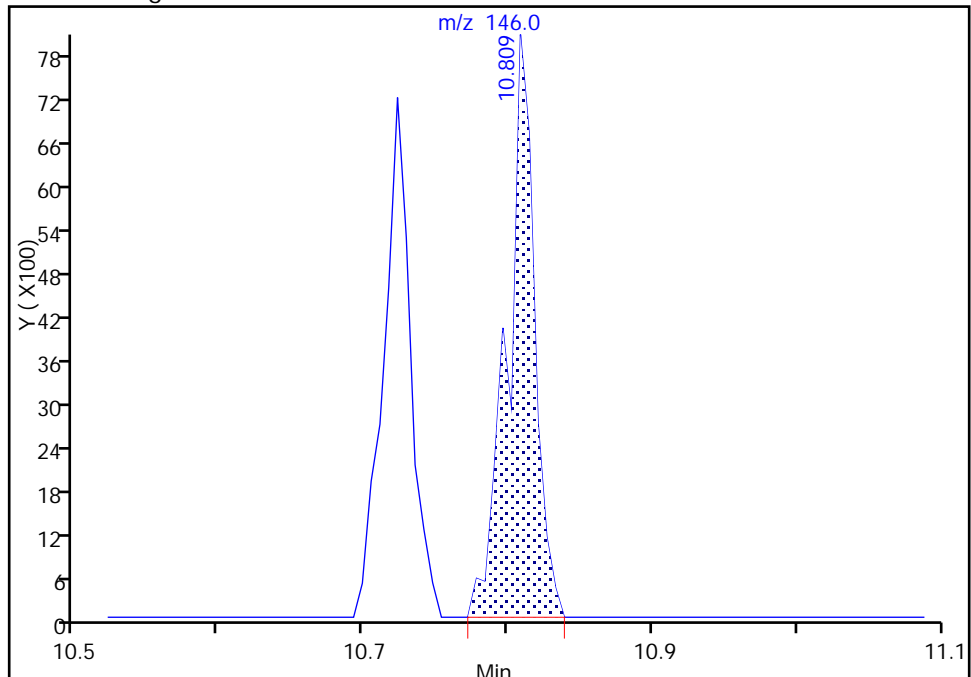
RT: 10.81
Area: 7926
Amount: 0.396948
Amount Units: ug/L

Processing Integration Results



RT: 10.81
Area: 10493
Amount: 0.509144
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:20:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

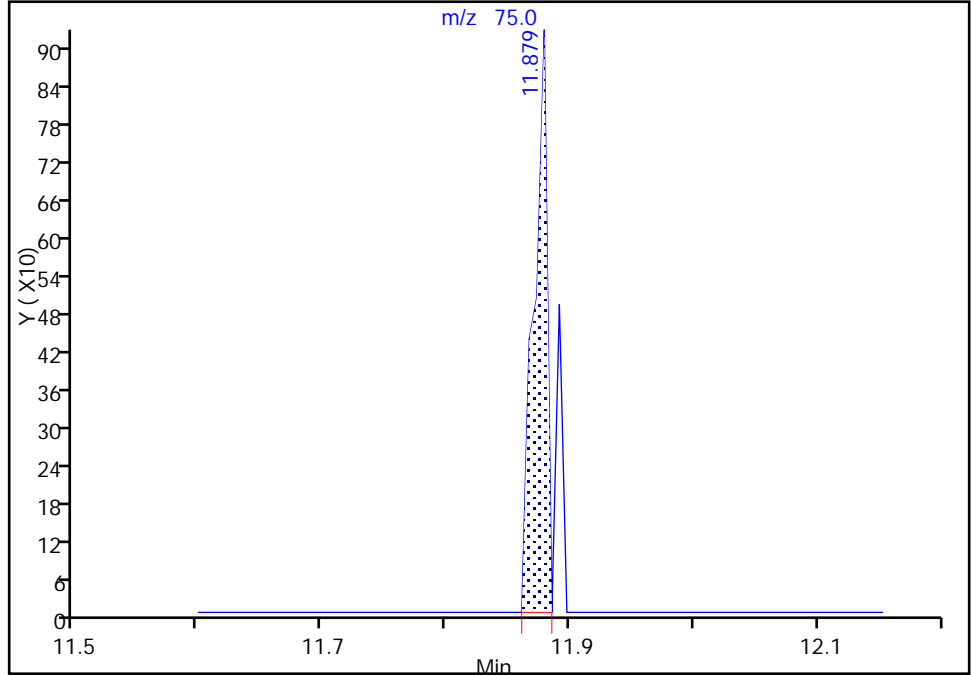
TestAmerica Buffalo

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Injection Date: 28-Dec-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

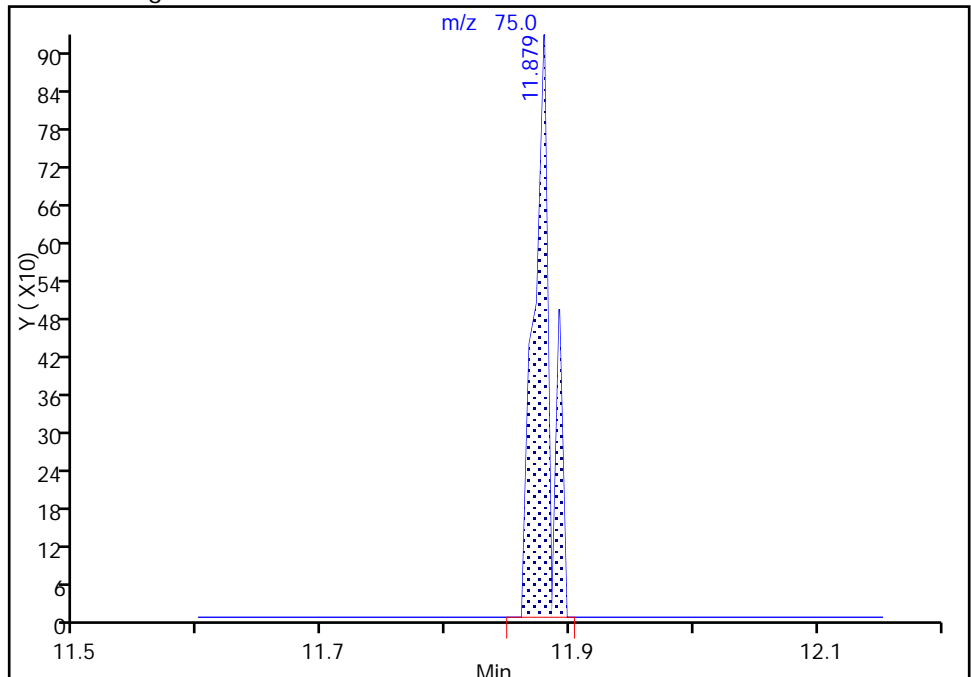
RT: 11.88
Area: 679
Amount: 0.597784
Amount Units: ug/L

Processing Integration Results



RT: 11.88
Area: 857
Amount: 0.399913
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:21:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 28-Dec-2017 16:12:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0068271-007
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:32:40 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: sonkera

Date: 02-Jan-2018 22:05:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	165992	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	90	612870	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	337292	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	222577	25.0	26.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.114	0.006	0	305382	25.0	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	766102	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.641	9.641	0.000	91	258331	25.0	24.9	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	55	7515	1.00	0.9388	M
13 Chloromethane	50	1.501	1.507	-0.006	85	19395	1.00	1.05	
14 Vinyl chloride	62	1.592	1.592	0.000	94	11563	1.00	0.9426	
144 Butadiene	54	1.622	1.622	0.000	87	15191	1.00	1.07	M
15 Bromomethane	94	1.902	1.908	-0.006	49	7111	1.00	1.12	
16 Chloroethane	64	2.000	1.993	0.007	65	7384	1.00	1.02	
17 Dichlorofluoromethane	67	2.206	2.200	0.006	90	20675	1.00	1.26	M
18 Trichlorofluoromethane	101	2.194	2.206	-0.012	80	12152	1.00	0.9699	
19 Ethyl ether	59	2.474	2.480	-0.006	86	11623	1.00	1.06	
20 Acrolein	56	2.632	2.632	0.000	97	15768	5.00	5.55	M
22 1,1-Dichloroethene	96	2.681	2.681	0.000	93	6976	1.00	1.07	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.717	-0.012	44	6314	1.00	1.02	
23 Acetone	43	2.790	2.784	0.006	98	21519	5.00	5.76	
24 Iodomethane	142	2.827	2.833	-0.006	95	13626	1.00	1.04	
25 Carbon disulfide	76	2.882	2.876	0.006	90	22842	1.00	1.02	M
27 3-Chloro-1-propene	41	3.040	3.040	0.000	86	23307	1.00	1.01	
28 Methyl acetate	43	3.082	3.082	0.000	92	28427	2.00	2.07	
30 Methylene Chloride	84	3.168	3.174	-0.006	88	15809	1.00	1.08	M
31 2-Methyl-2-propanol	59	3.338	3.332	0.006	95	9314	10.0	11.2	
32 Methyl tert-butyl ether	73	3.405	3.411	-0.006	96	28152	1.00	1.05	
33 trans-1,2-Dichloroethene	96	3.405	3.411	-0.006	86	7600	1.00	0.9793	
34 Acrylonitrile	53	3.435	3.435	0.000	99	63488	10.0	9.80	
35 Hexane	57	3.630	3.624	0.006	92	16864	1.00	1.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.819	3.812	0.007	42	18594	1.00	1.06	M
39 Vinyl acetate	43	3.867	3.867	0.000	96	69824	2.00	2.00	
42 2,2-Dichloropropane	77	4.336	4.330	0.006	82	12330	1.00	1.12	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	84	10229	1.00	1.13	
44 2-Butanone (MEK)	43	4.390	4.384	0.006	96	44354	5.00	5.54	M
47 Chlorobromomethane	128	4.585	4.585	0.000	91	5100	1.00	1.09	
49 Tetrahydrofuran	42	4.634	4.622	0.012	88	12547	2.00	2.23	
50 Chloroform	83	4.658	4.664	-0.006	95	16471	1.00	1.12	
51 1,1,1-Trichloroethane	97	4.792	4.786	0.006	93	12367	1.00	1.01	
52 Cyclohexane	56	4.822	4.816	0.006	34	17480	1.00	0.9091	M
54 1,1-Dichloropropene	75	4.950	4.944	0.006	79	10338	1.00	0.99	
53 Carbon tetrachloride	117	4.932	4.944	-0.012	80	9217	1.00	0.8836	M
56 Isobutyl alcohol	43	5.139	5.139	0.000	52	14899	25.0	23.8	
55 Benzene	78	5.145	5.145	0.000	93	33673	1.00	1.07	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	51	17137	1.00	1.10	
59 n-Heptane	43	5.346	5.352	-0.006	91	18241	1.00	0.9212	
60 Trichloroethene	95	5.747	5.747	0.000	91	8751	1.00	1.05	
62 Methylcyclohexane	83	5.887	5.887	0.000	91	12528	1.00	0.9316	
63 1,2-Dichloropropane	63	5.978	5.972	0.006	88	9817	1.00	1.01	
64 Dibromomethane	93	6.106	6.100	0.006	84	5680	1.00	1.03	
66 1,4-Dioxane	88	6.118	6.124	-0.006	27	611	20.0	20.5	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	94	11121	1.00	1.00	
69 2-Chloroethyl vinyl ether	63	6.544	6.538	0.006	85	6370	1.00	0.9121	
71 cis-1,3-Dichloropropene	75	6.678	6.684	-0.006	85	12010	1.00	0.9574	
72 4-Methyl-2-pentanone (MIBK)	58	6.830	6.824	0.006	97	25916	5.00	4.55	
73 Toluene	92	6.976	6.982	-0.006	95	20632	1.00	1.02	
75 trans-1,3-Dichloropropene	75	7.238	7.237	0.001	88	10636	1.00	0.9162	
77 Ethyl methacrylate	69	7.311	7.304	0.006	61	8599	1.00	0.7956	M
78 1,1,2-Trichloroethane	83	7.432	7.426	0.006	90	6360	1.00	1.05	M
79 Tetrachloroethene	166	7.517	7.517	0.000	89	8210	1.00	0.9346	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	86	12214	1.00	1.01	
82 2-Hexanone	43	7.663	7.663	0.000	97	61446	5.00	5.01	M
83 Chlorodibromomethane	129	7.822	7.822	0.000	89	7563	1.00	0.8895	
84 Ethylene Dibromide	107	7.937	7.931	0.006	97	7842	1.00	1.00	
85 Chlorobenzene	112	8.424	8.424	0.000	96	23997	1.00	1.02	
89 1,1,1,2-Tetrachloroethane	131	8.509	8.515	-0.006	63	8593	1.00	0.99	M
88 Ethylbenzene	91	8.521	8.521	0.000	97	36693	1.00	0.9582	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	15762	1.00	1.04	
91 o-Xylene	106	9.063	9.069	-0.006	94	16132	1.00	1.07	
92 Styrene	104	9.093	9.093	0.000	90	22585	1.00	0.9039	
93 Bromoform	173	9.324	9.324	0.000	94	6466	1.00	1.06	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	37502	1.00	0.9428	
97 Bromobenzene	156	9.793	9.787	0.007	85	10413	1.00	1.00	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	86	10883	1.00	0.9833	
99 1,2,3-Trichloropropane	110	9.866	9.866	0.000	85	3538	1.00	1.01	
100 N-Propylbenzene	91	9.890	9.884	0.006	98	43395	1.00	0.9402	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.884	-0.006	62	5338	1.00	1.01	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	8830	1.00	0.9036	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	30955	1.00	0.9278	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	31829	1.00	0.9747	M
106 tert-Butylbenzene	134	10.383	10.383	0.000	96	6750	1.00	0.8882	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	34420	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	41288	1.00	0.9876	
110 1,3-Dichlorobenzene	146	10.723	10.717	0.006	93	18346	1.00	0.9282	
111 4-Isopropyltoluene	119	10.736	10.742	-0.006	98	35677	1.00	0.9714	
113 1,4-Dichlorobenzene	146	10.809	10.809	0.000	89	19772	1.00	0.9648	
115 n-Butylbenzene	91	11.125	11.125	0.000	97	29038	1.00	0.9263	
116 1,2-Dichlorobenzene	146	11.155	11.161	-0.006	96	20008	1.00	1.04	
117 1,2-Dibromo-3-Chloropropan	75	11.885	11.879	0.006	66	2103	1.00	0.9869	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	92	13401	1.00	1.09	
120 Hexachlorobutadiene	225	12.694	12.694	0.000	88	5562	1.00	0.9884	
121 Naphthalene	128	12.786	12.780	0.006	97	32212	1.00	0.8958	
122 1,2,3-Trichlorobenzene	180	12.980	12.986	-0.006	93	9824	1.00	0.9204	
S 123 1,3-Dichloropropene, Total	1				0			1.87	
S 124 1,2-Dichloroethene, Total	1				0			2.11	
S 125 Total BTEX	1				0			5.16	
S 126 Xylenes, Total	1				0			2.11	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 1.00

Units: uL

GAS CORP mix_00257

Amount Added: 1.00

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D

Injection Date: 28-Dec-2017 16:12:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

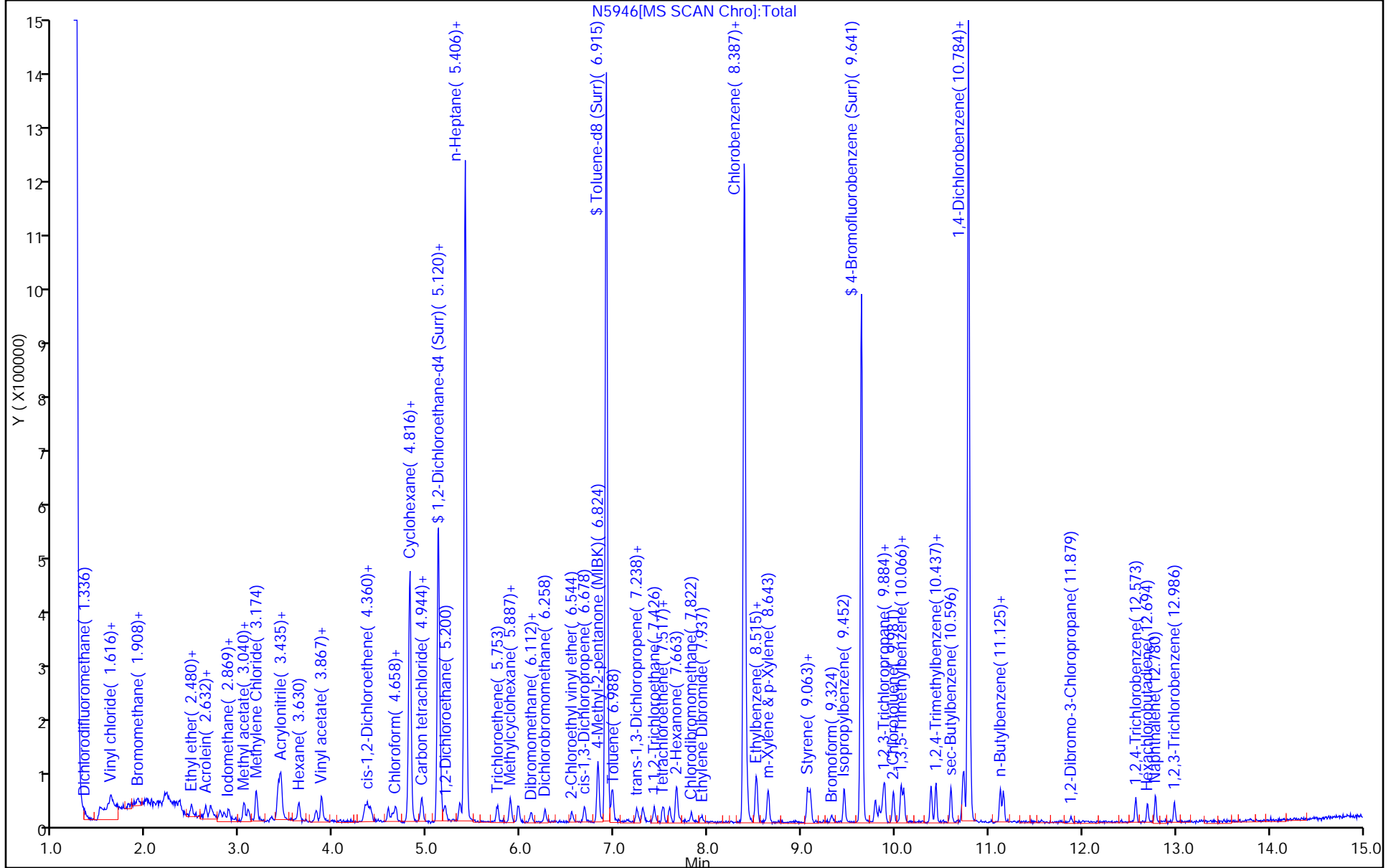
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

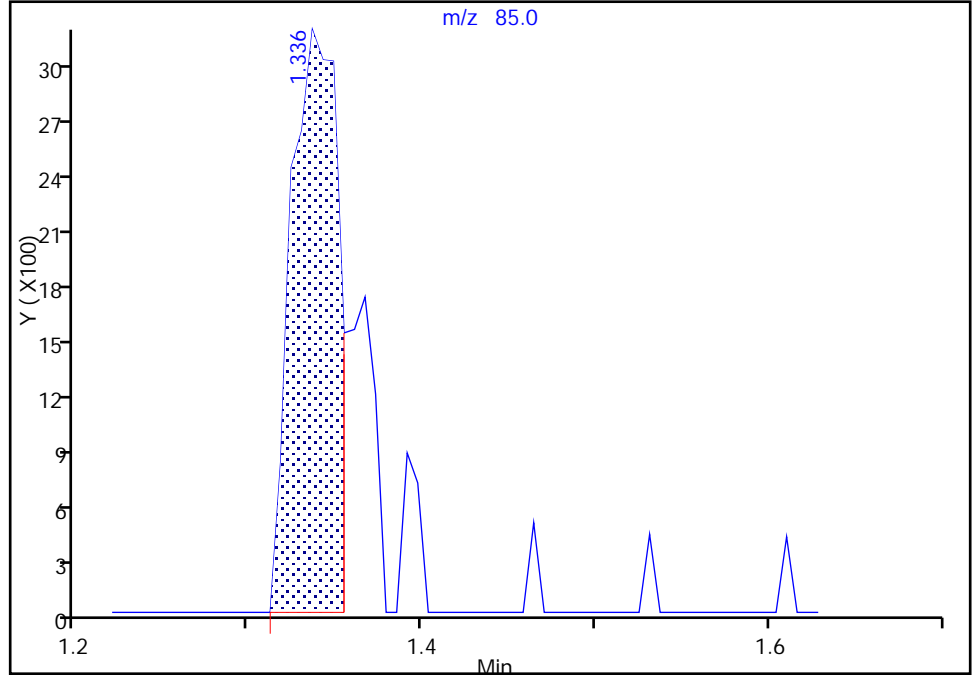
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Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

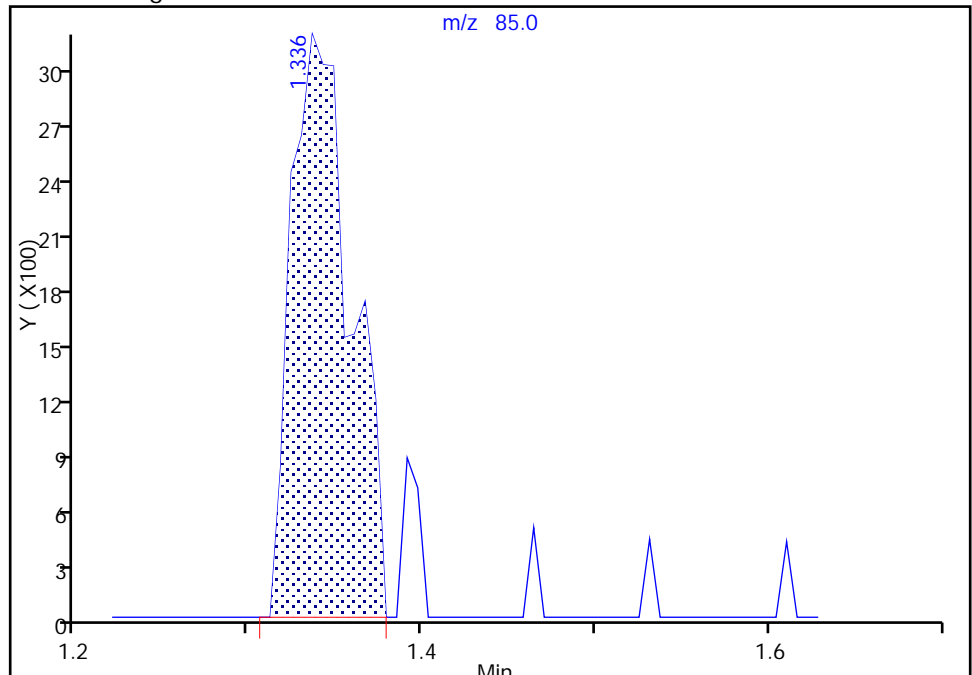
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Area: 5926
Amount: 0.981496
Amount Units: ug/L

Processing Integration Results



RT: 1.34
Area: 7515
Amount: 0.938799
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:05:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

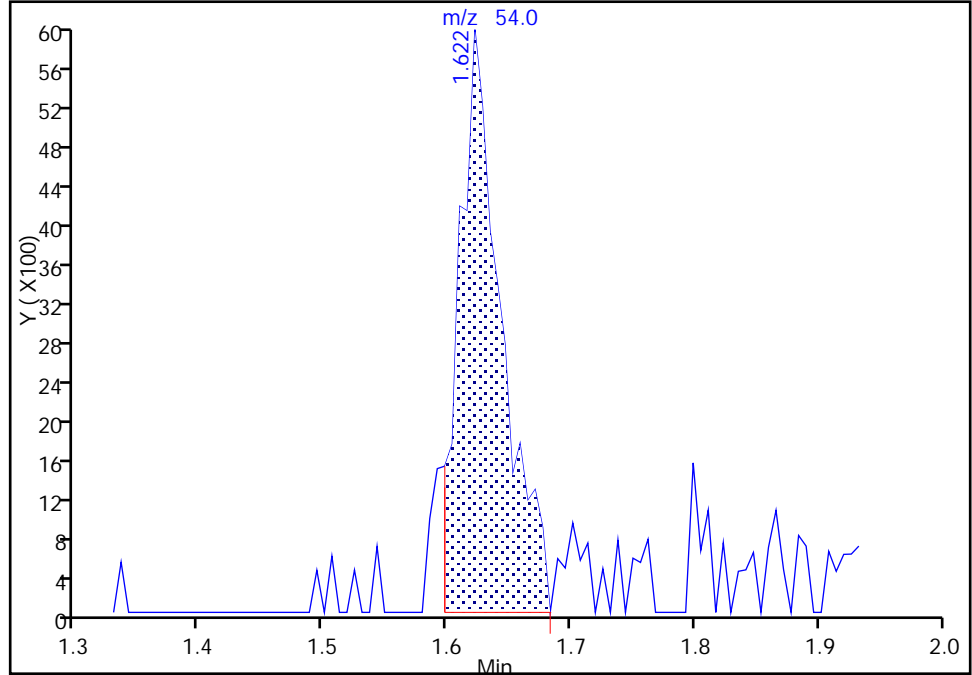
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Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

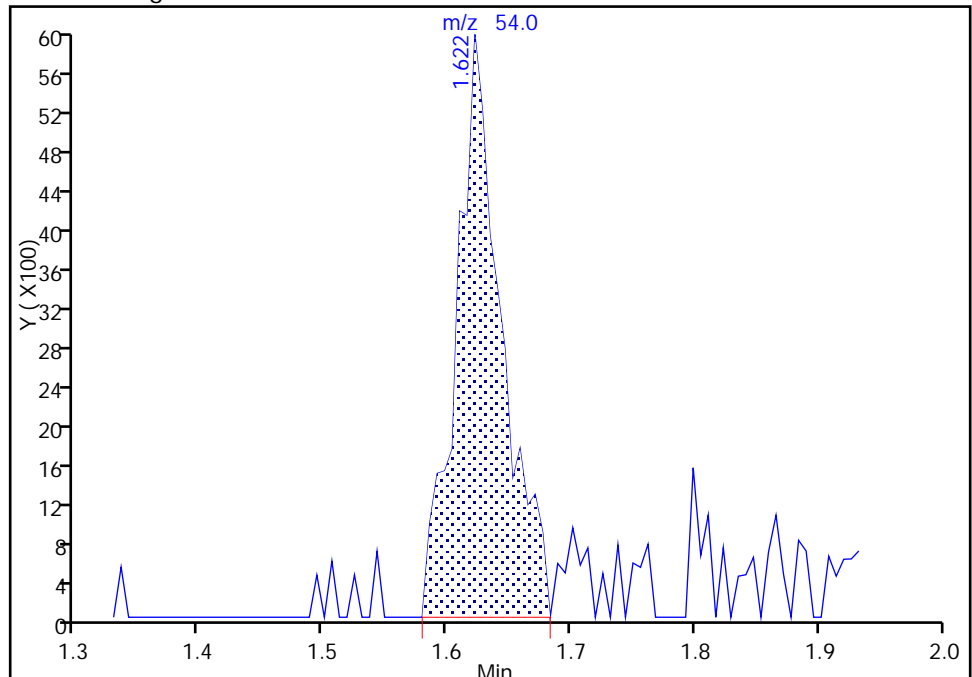
RT: 1.62
Area: 14300
Amount: 1.033265
Amount Units: ug/L

Processing Integration Results



RT: 1.62
Area: 15191
Amount: 1.068859
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:30:50
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

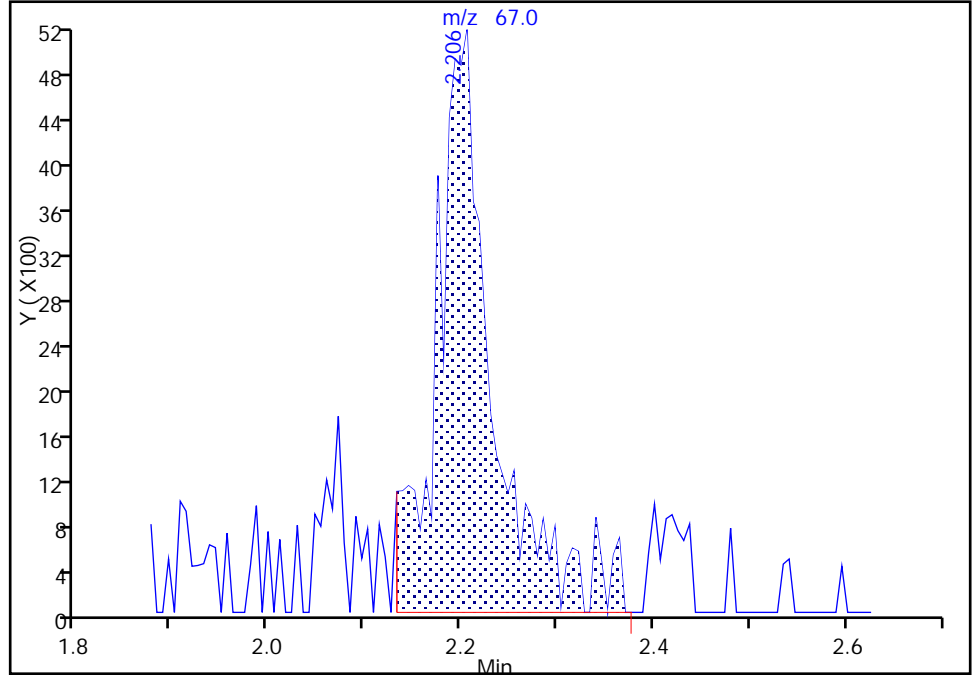
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Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

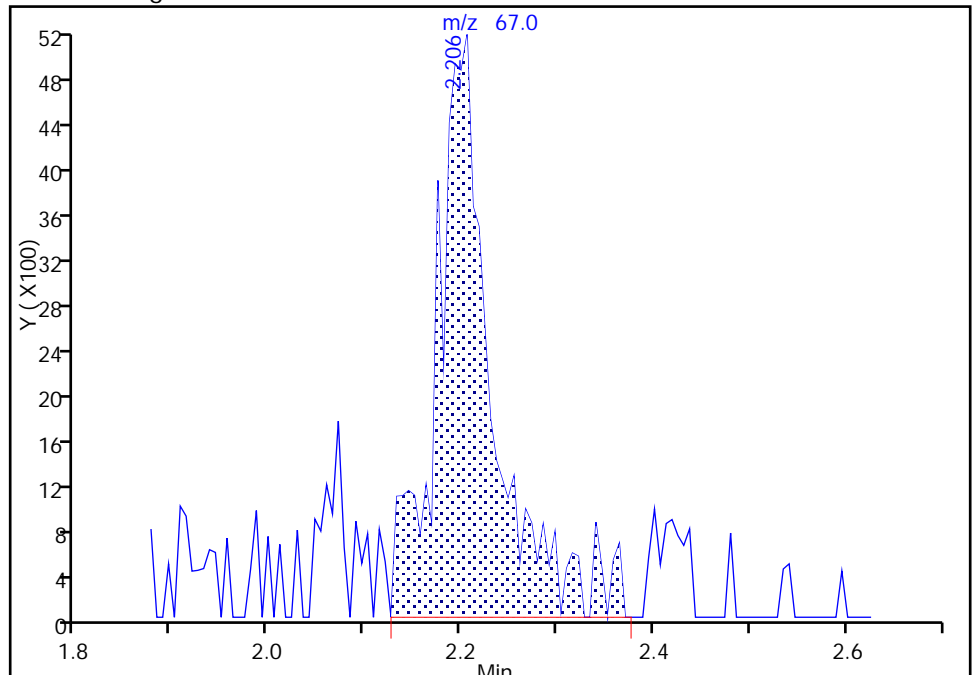
RT: 2.21
Area: 20675
Amount: 1.255340
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 20675
Amount: 1.255340
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 10:34:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

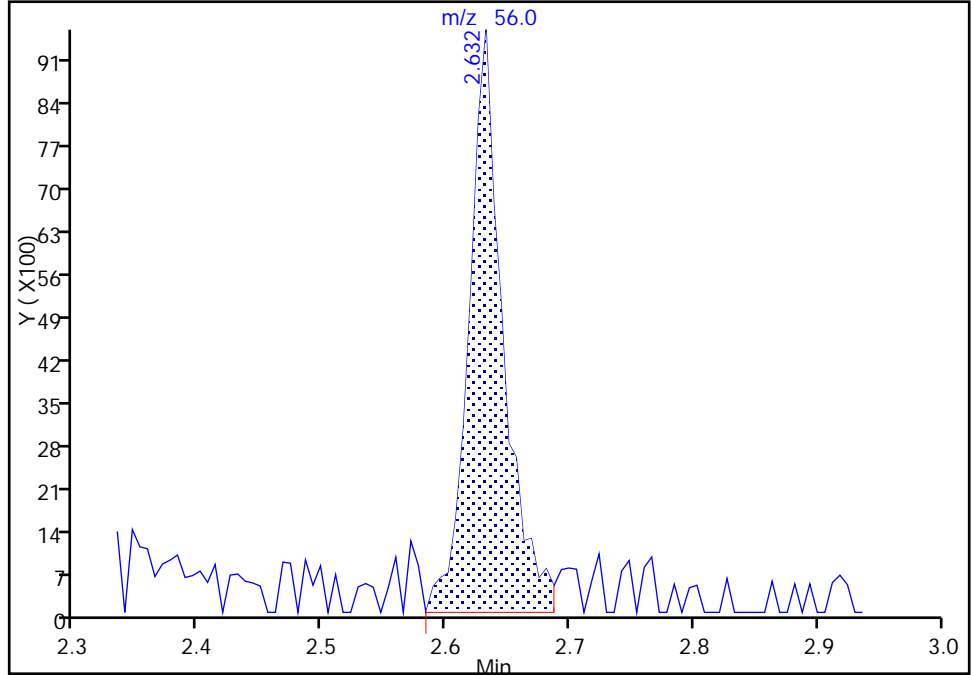
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Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

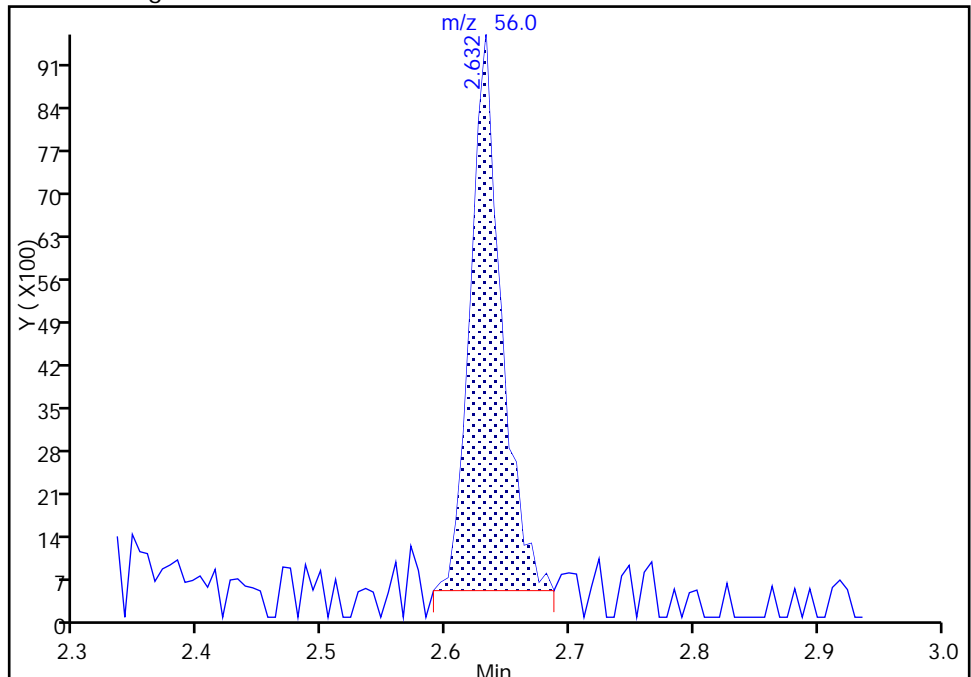
RT: 2.63
Area: 18486
Amount: 6.329032
Amount Units: ug/L

Processing Integration Results



RT: 2.63
Area: 15768
Amount: 5.548521
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:30:51
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

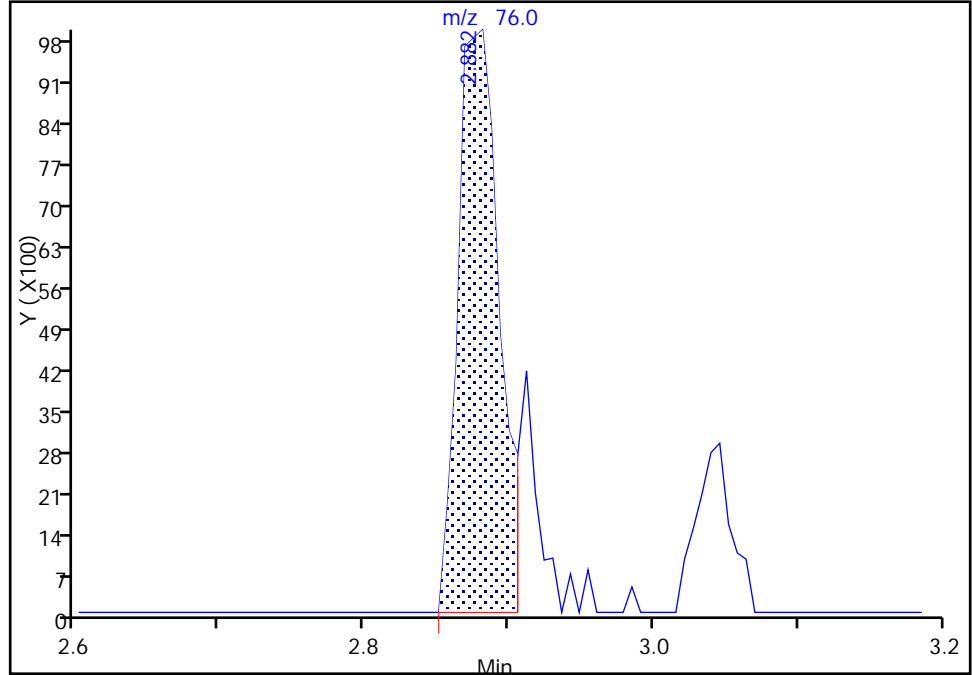
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Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

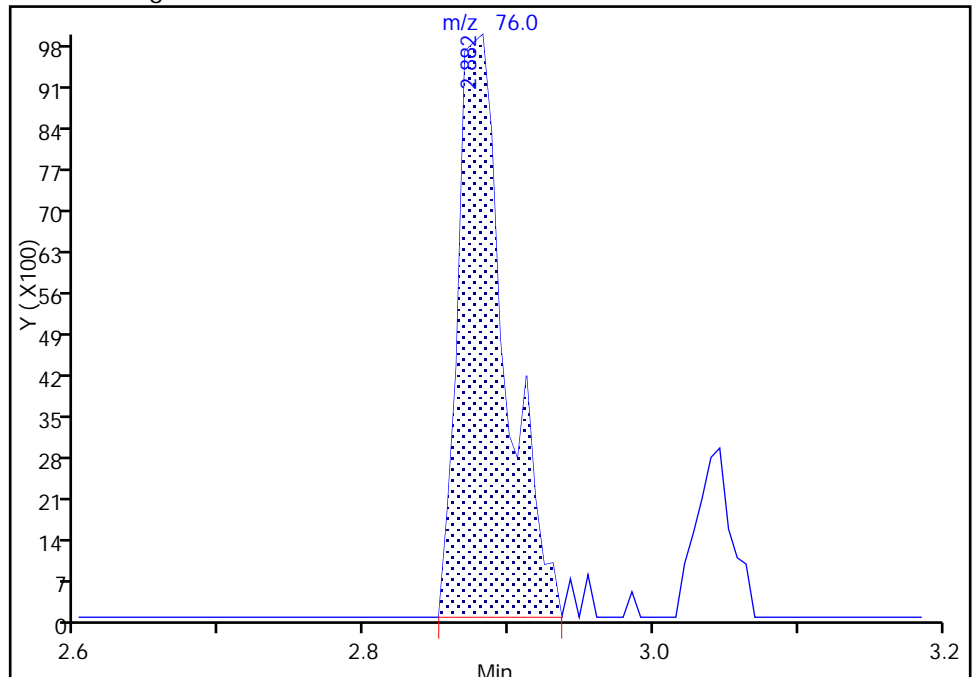
RT: 2.88
Area: 19915
Amount: 0.918647
Amount Units: ug/L

Processing Integration Results



RT: 2.88
Area: 22842
Amount: 1.017218
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:46:45
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

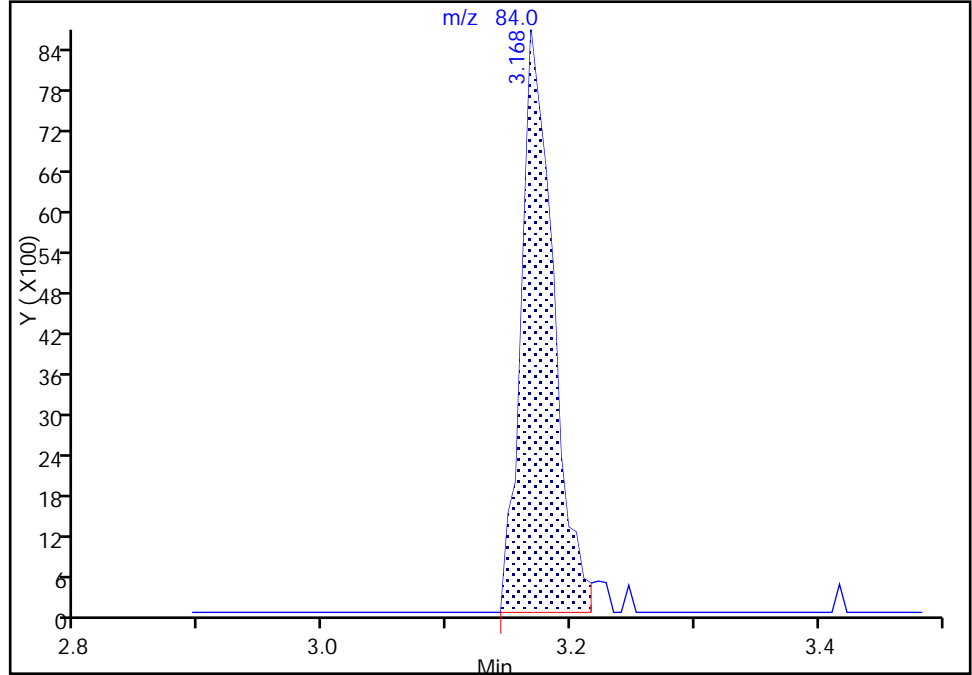
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Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

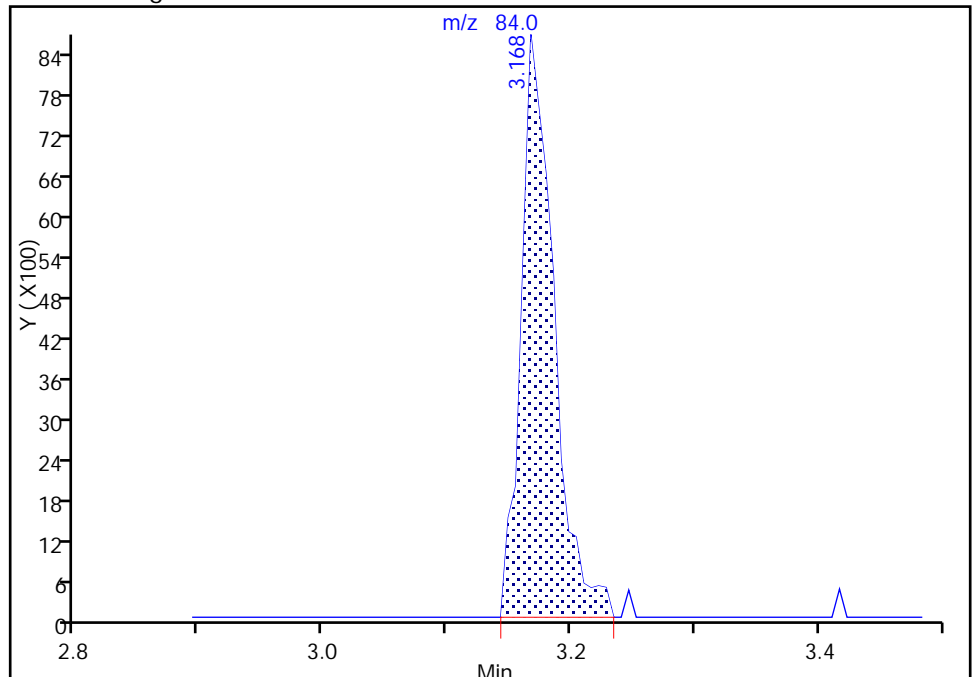
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Area: 15479
Amount: 1.091714
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 15809
Amount: 1.078126
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:31:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

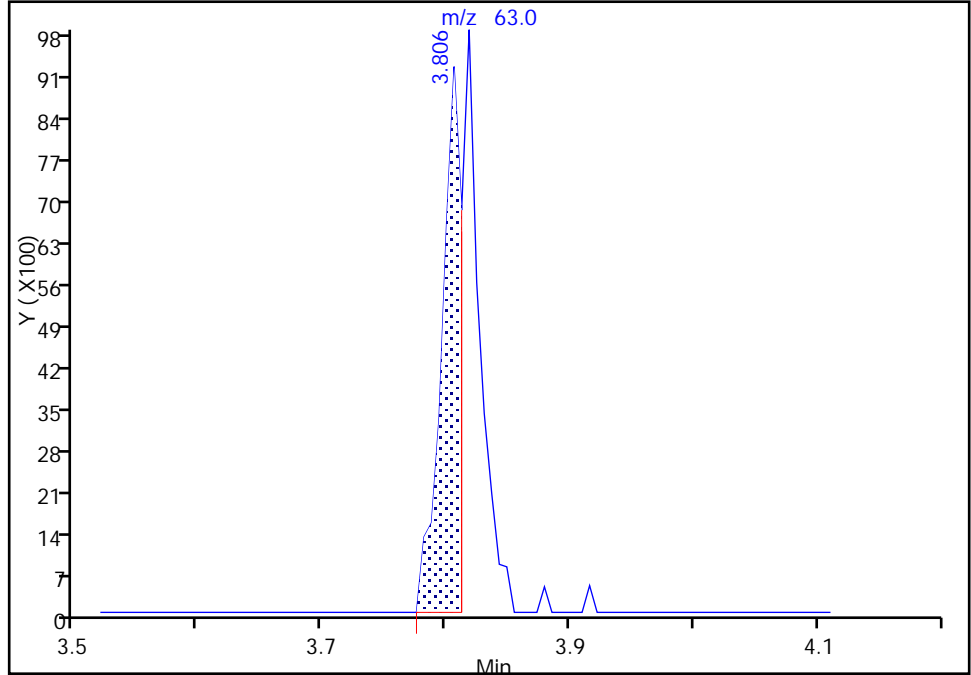
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Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

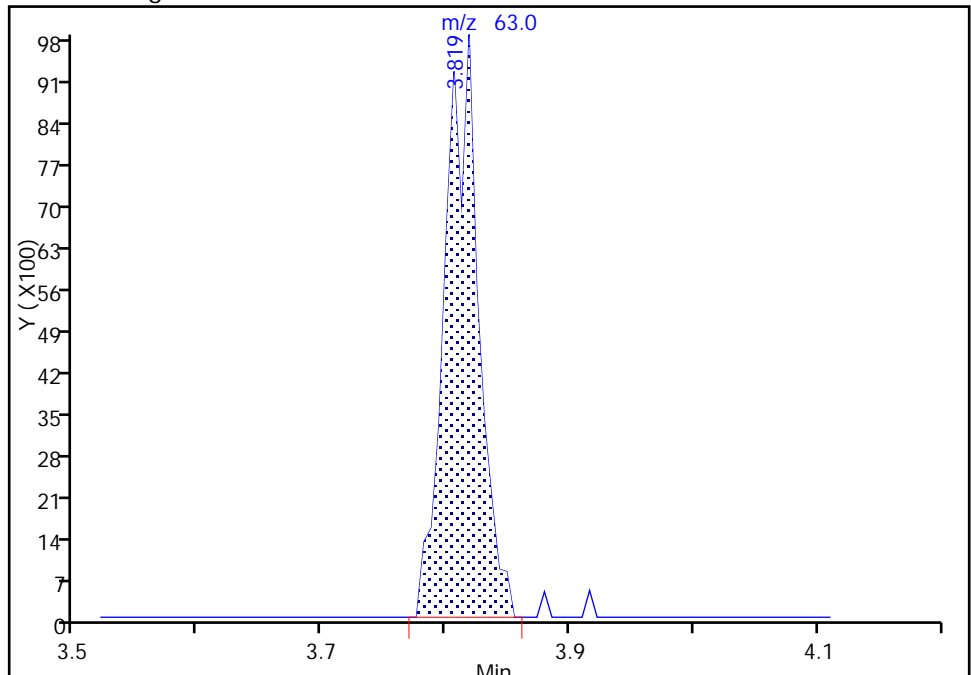
RT: 3.81
Area: 10443
Amount: 0.741083
Amount Units: ug/L

Processing Integration Results



RT: 3.82
Area: 18594
Amount: 1.056002
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:08:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

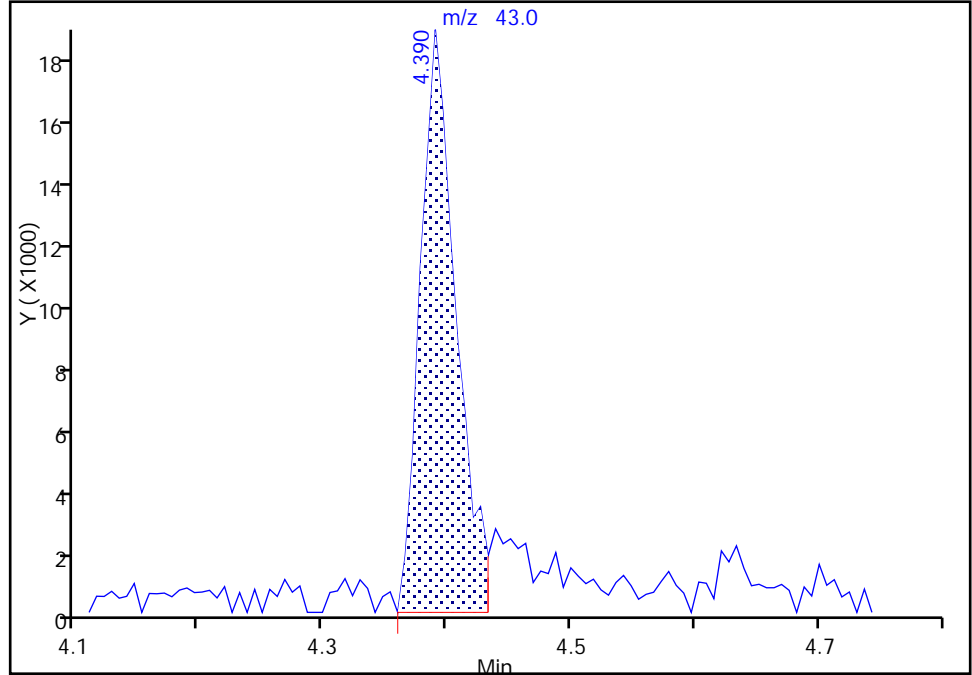
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

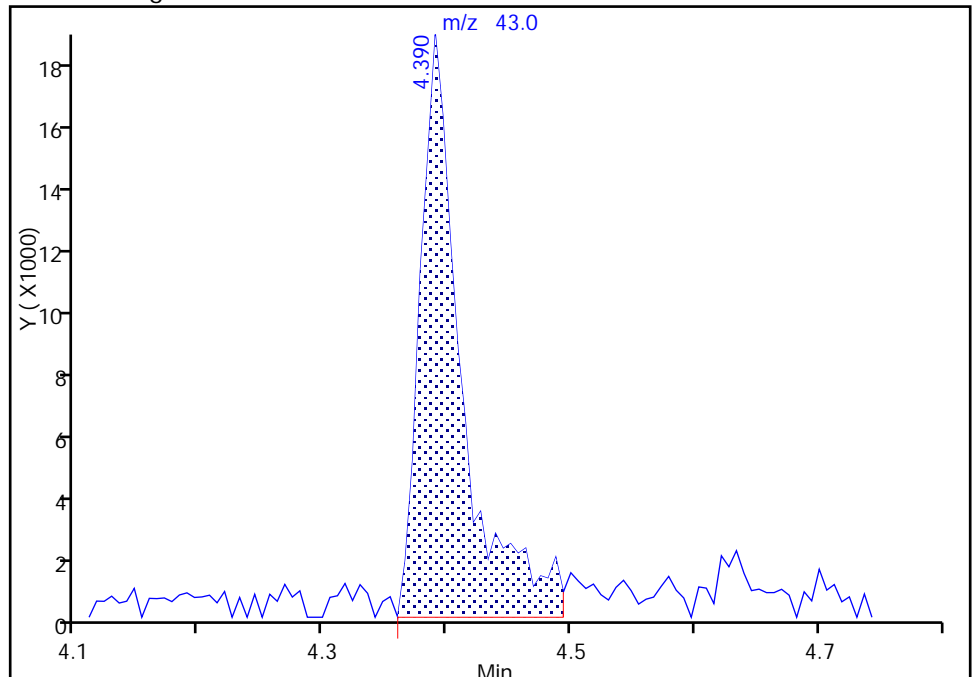
RT: 4.39
Area: 37813
Amount: 4.804945
Amount Units: ug/L

Processing Integration Results



RT: 4.39
Area: 44354
Amount: 5.540105
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:11:03
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo

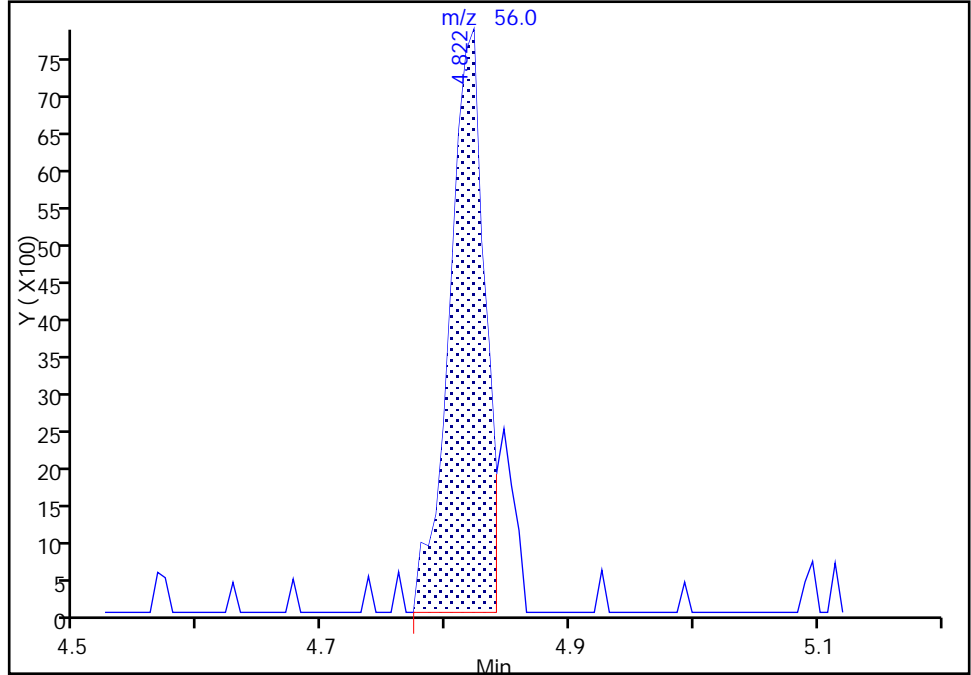
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Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

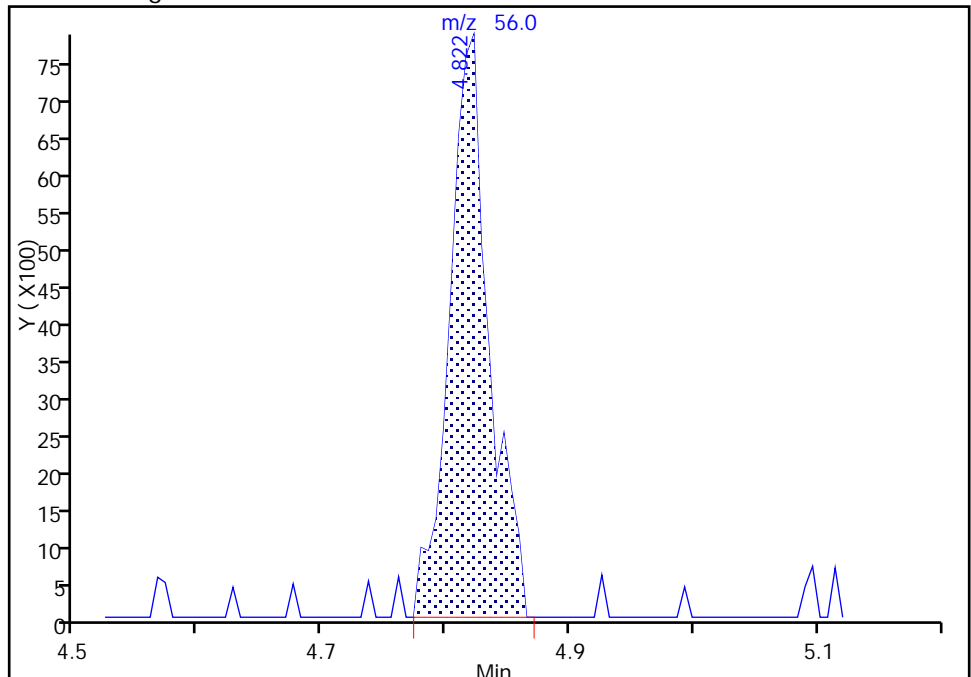
RT: 4.82
Area: 15549
Amount: 0.820425
Amount Units: ug/L

Processing Integration Results



RT: 4.82
Area: 17480
Amount: 0.909080
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:32:30
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

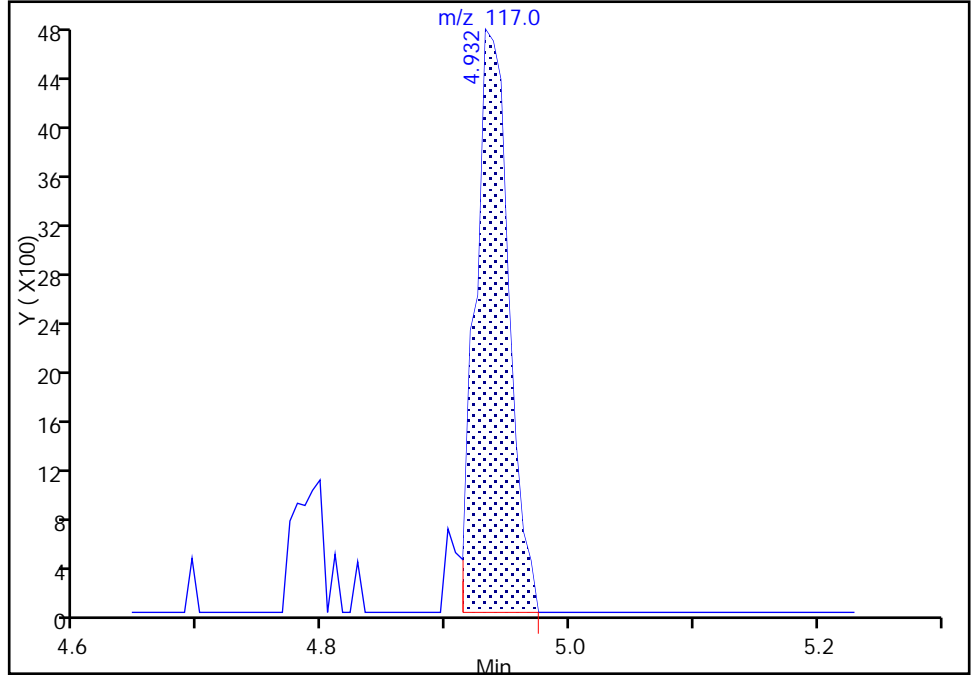
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

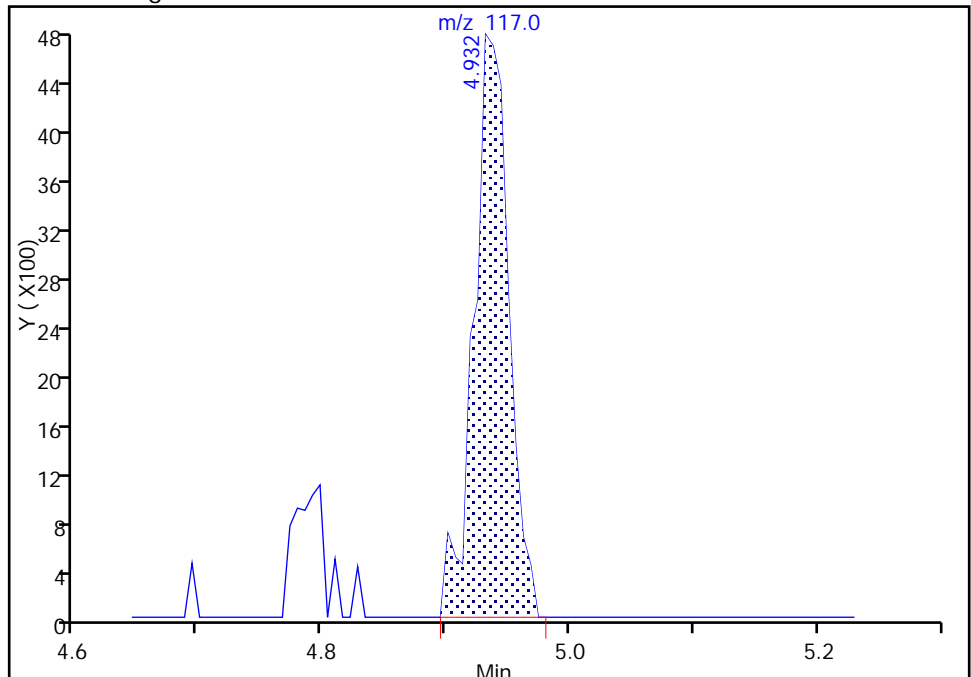
RT: 4.93
Area: 8793
Amount: 0.847305
Amount Units: ug/L

Processing Integration Results



RT: 4.93
Area: 9217
Amount: 0.883649
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:32:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

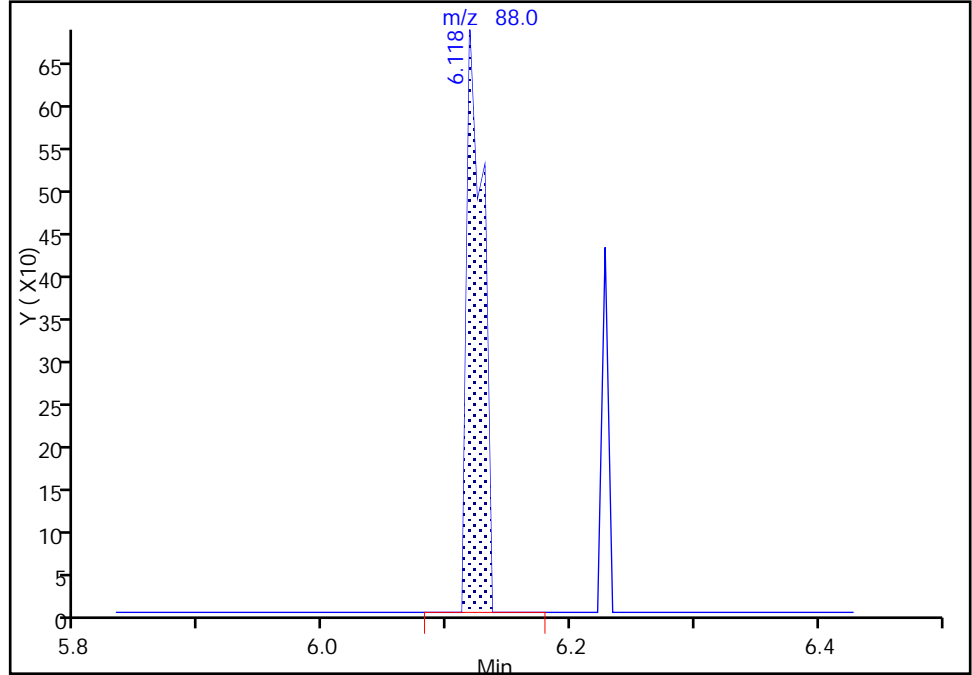
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

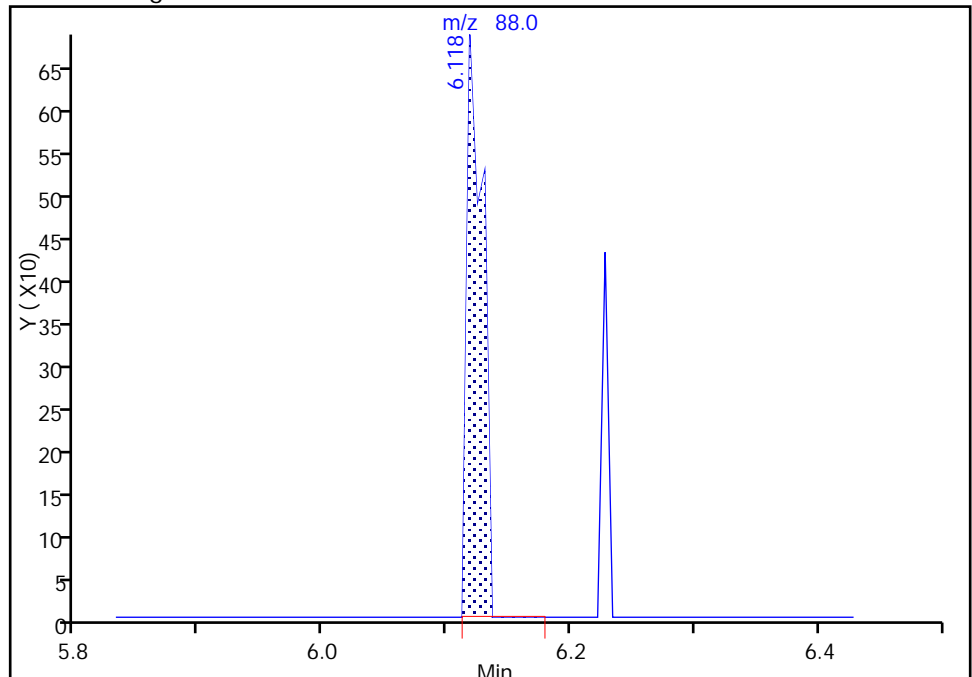
RT: 6.12
Area: 616
Amount: 20.511669
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 611
Amount: 20.483269
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:53:53
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

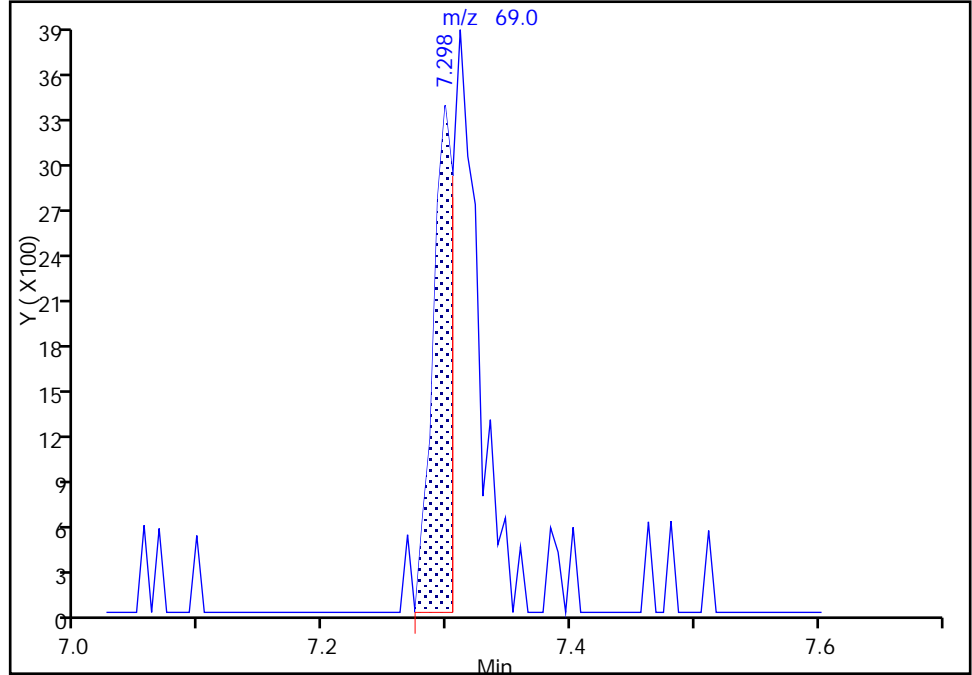
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

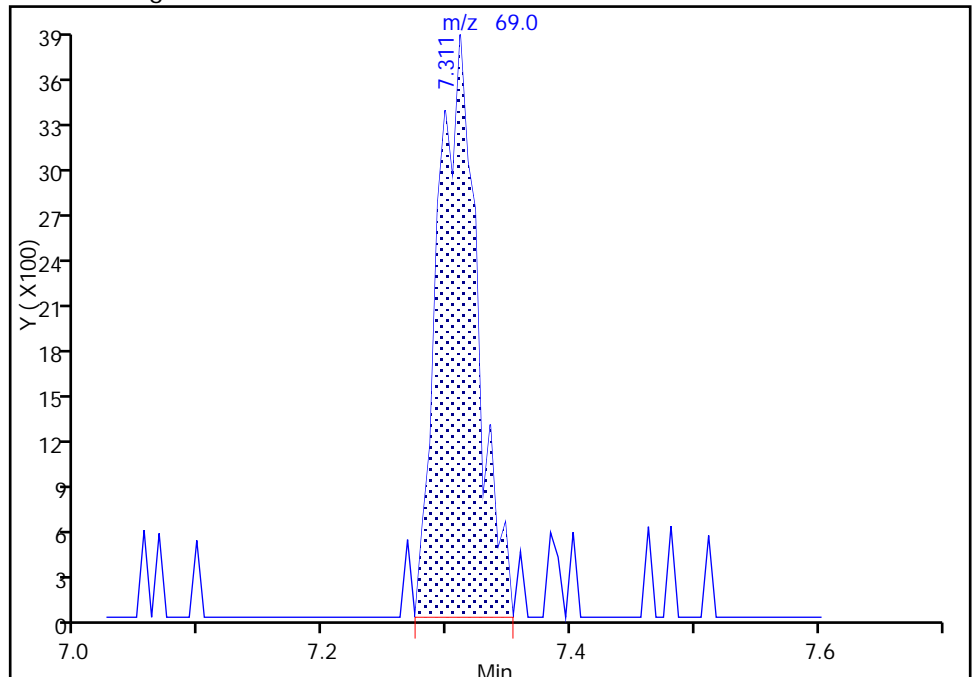
RT: 7.30
Area: 3945
Amount: 0.330504
Amount Units: ug/L

Processing Integration Results



RT: 7.31
Area: 8599
Amount: 0.795609
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:04:48
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

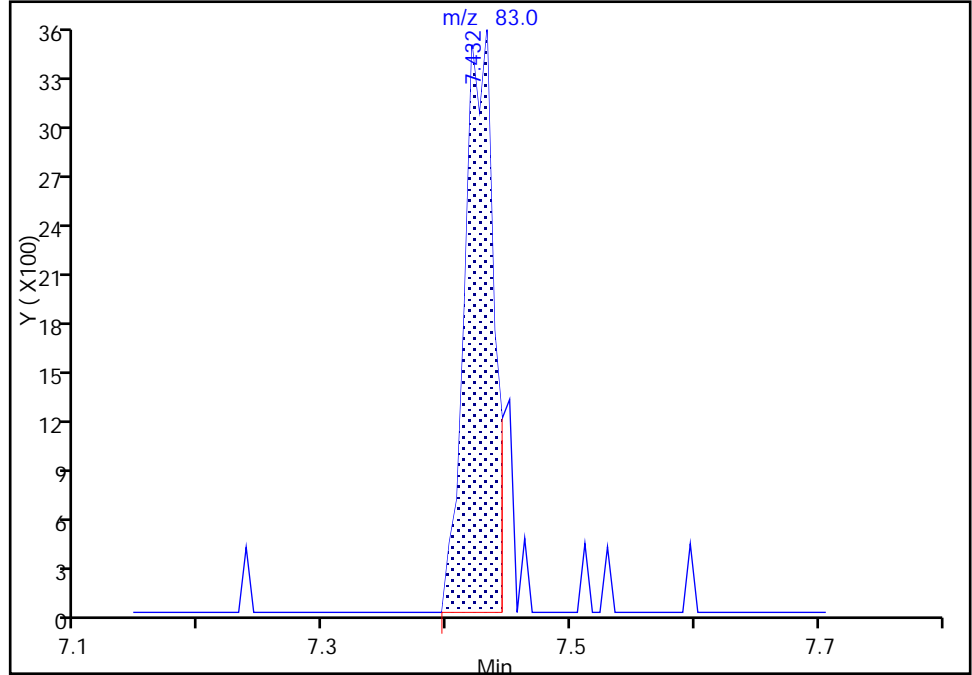
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

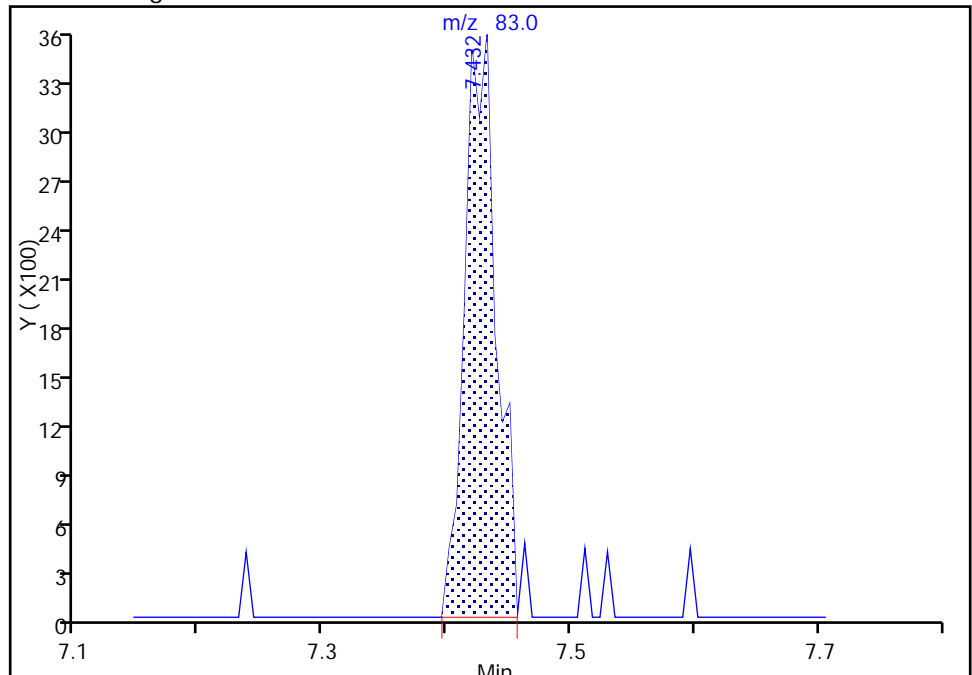
RT: 7.43
Area: 5880
Amount: 0.979647
Amount Units: ug/L

Processing Integration Results



RT: 7.43
Area: 6360
Amount: 1.047650
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:34:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

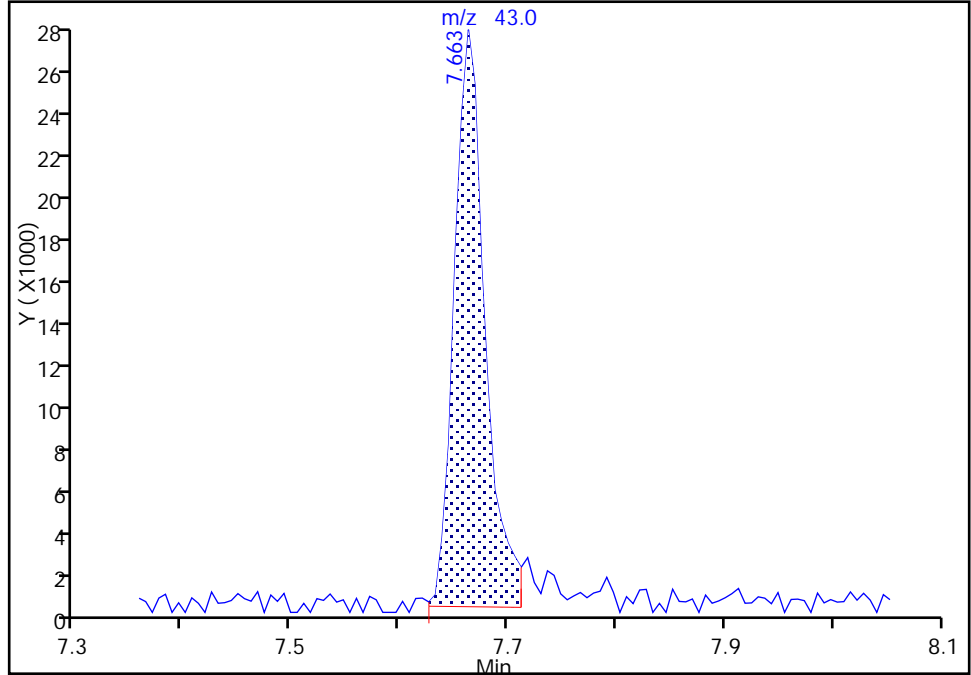
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

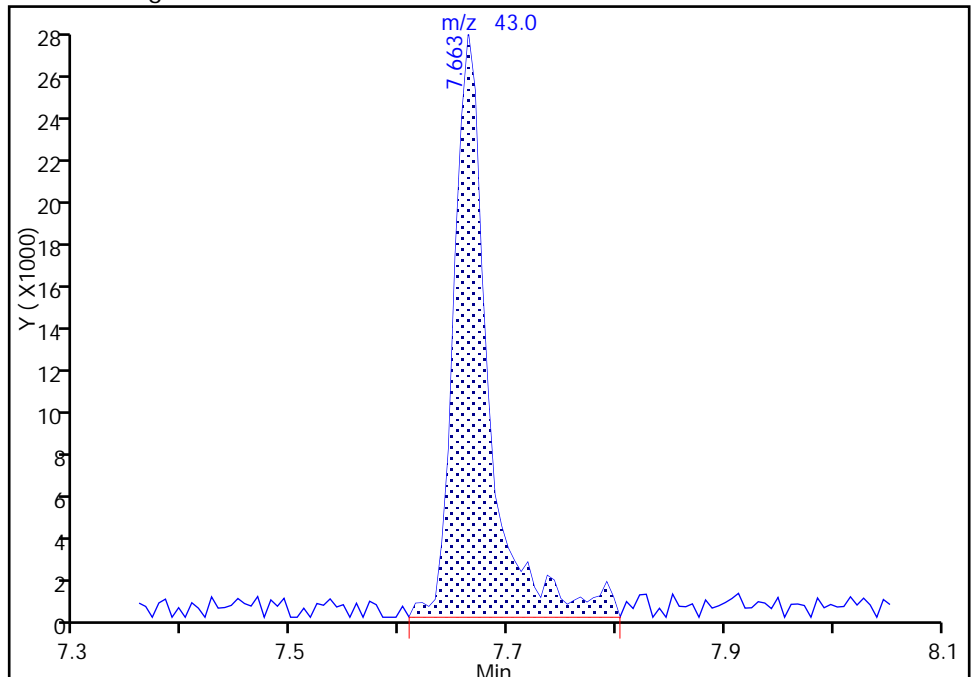
RT: 7.66
Area: 53357
Amount: 4.496781
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 61446
Amount: 5.012796
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:07:12
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

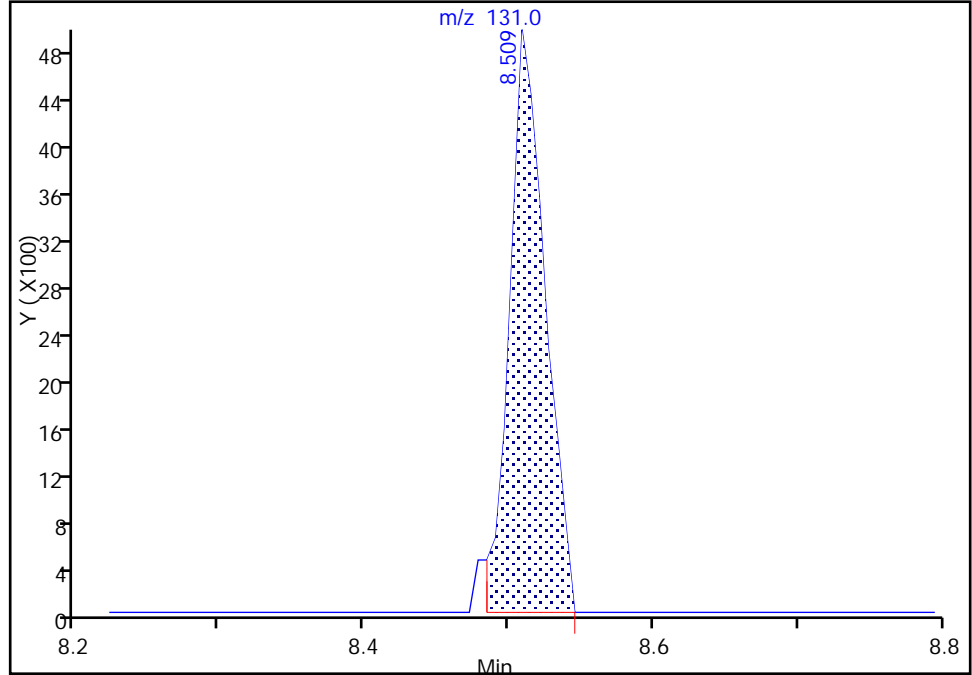
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

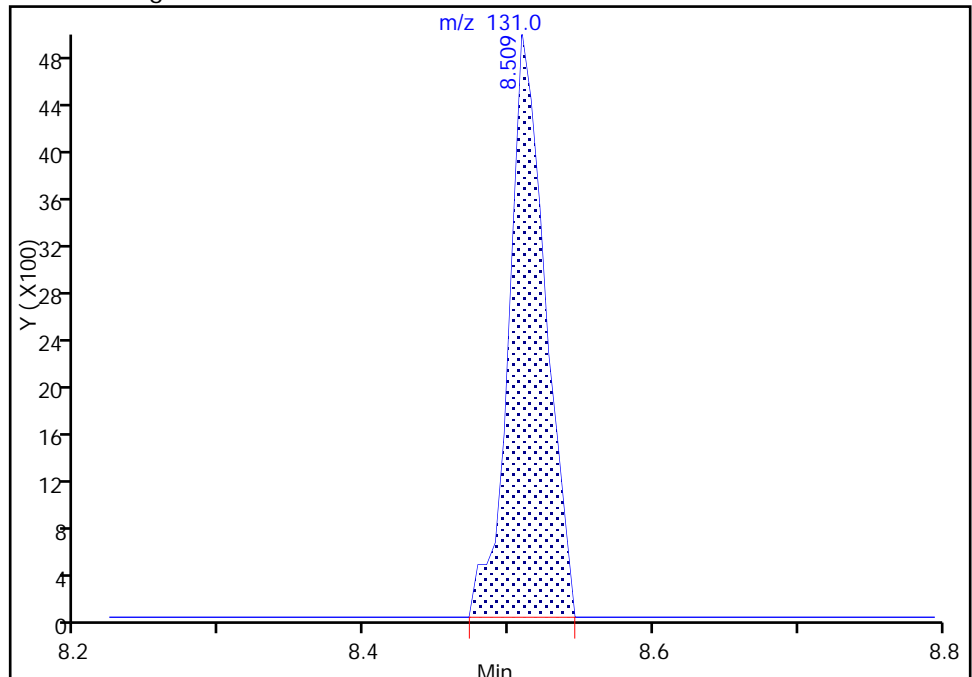
RT: 8.51
Area: 8429
Amount: 0.977742
Amount Units: ug/L

Processing Integration Results



RT: 8.51
Area: 8593
Amount: 0.994064
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:34:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

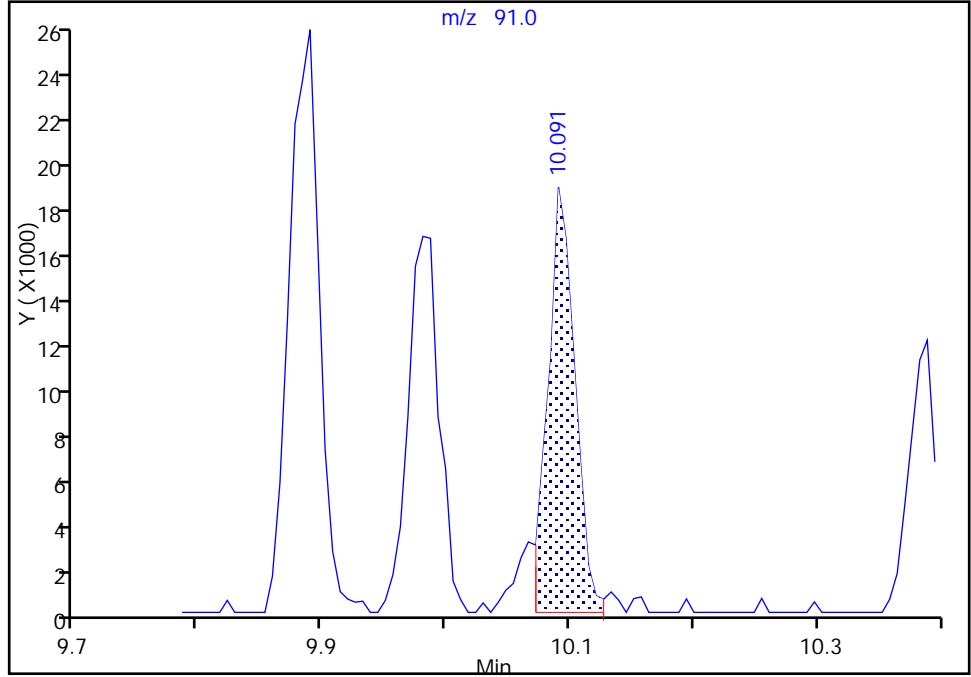
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5946.D
Injection Date: 28-Dec-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

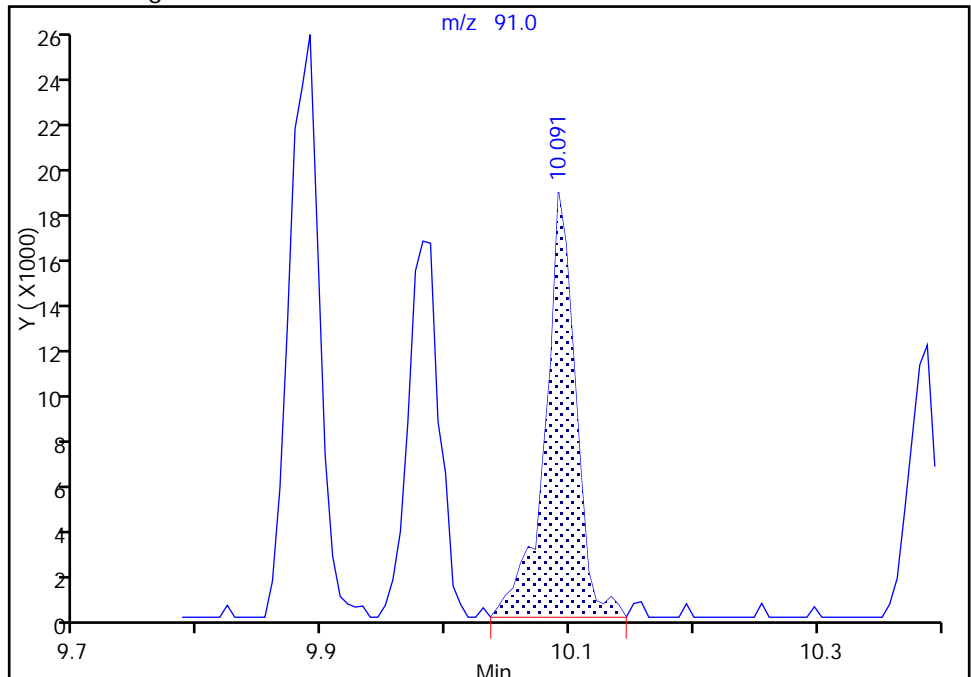
RT: 10.09
Area: 28322
Amount: 0.895643
Amount Units: ug/L

Processing Integration Results



RT: 10.09
Area: 31829
Amount: 0.974699
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:18:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 28-Dec-2017 16:40:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0068271-008
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:32:43 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: sonkera

Date: 02-Jan-2018 22:06:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	176519	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	633891	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	349774	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	220753	25.0	24.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.114	0.006	0	304110	25.0	24.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	790484	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.641	0.000	90	270276	25.0	25.2	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	77	14919	2.00	1.75	M
13 Chloromethane	50	1.507	1.507	0.000	98	39159	2.00	1.99	
14 Vinyl chloride	62	1.598	1.592	0.006	98	25056	2.00	1.92	
144 Butadiene	54	1.616	1.622	-0.006	96	28572	2.00	1.89	M
15 Bromomethane	94	1.914	1.908	0.006	68	13238	2.00	1.96	
16 Chloroethane	64	1.999	1.993	0.006	75	14282	2.00	1.86	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	93	34189	2.00	1.95	
18 Trichlorofluoromethane	101	2.212	2.206	0.006	71	23383	2.00	1.75	
19 Ethyl ether	59	2.480	2.480	0.000	93	22139	2.00	1.90	
20 Acrolein	56	2.638	2.632	0.006	98	28807	10.0	9.53	M
22 1,1-Dichloroethene	96	2.687	2.681	0.006	91	13263	2.00	1.91	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.729	2.717	0.012	39	10666	2.00	1.62	
23 Acetone	43	2.784	2.784	0.000	98	38100	10.0	9.59	
24 Iodomethane	142	2.833	2.833	0.000	99	27159	2.00	1.94	
25 Carbon disulfide	76	2.882	2.876	0.006	97	44487	2.00	1.86	M
27 3-Chloro-1-propene	41	3.046	3.040	0.006	88	44197	2.00	1.80	
28 Methyl acetate	43	3.082	3.082	0.000	98	57864	4.00	3.97	
30 Methylene Chloride	84	3.174	3.174	0.000	90	25821	2.00	2.12	M
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	91	18318	20.0	20.8	M
33 trans-1,2-Dichloroethene	96	3.417	3.411	0.006	69	14753	2.00	1.79	
32 Methyl tert-butyl ether	73	3.405	3.411	-0.006	92	55853	2.00	1.95	
34 Acrylonitrile	53	3.435	3.435	0.000	96	127749	20.0	18.5	M
35 Hexane	57	3.630	3.624	0.006	93	31032	2.00	1.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	95	36771	2.00	1.96	
39 Vinyl acetate	43	3.873	3.867	0.006	97	145758	4.00	3.93	
42 2,2-Dichloropropane	77	4.329	4.330	-0.001	85	21973	2.00	1.88	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	89	18580	2.00	1.94	
44 2-Butanone (MEK)	43	4.390	4.384	0.006	95	81825	10.0	9.61	
47 Chlorobromomethane	128	4.585	4.585	0.000	86	9287	2.00	1.86	
49 Tetrahydrofuran	42	4.628	4.622	0.006	92	25027	4.00	4.19	
50 Chloroform	83	4.670	4.664	0.006	94	28152	2.00	1.79	
51 1,1,1-Trichloroethane	97	4.792	4.786	0.006	95	24693	2.00	1.90	
52 Cyclohexane	56	4.816	4.816	0.000	38	37411	2.00	1.83	
53 Carbon tetrachloride	117	4.944	4.944	0.000	77	22099	2.00	1.99	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	79	21336	2.00	1.93	
56 Isobutyl alcohol	43	5.145	5.139	0.006	42	29607	50.0	44.5	
55 Benzene	78	5.139	5.145	-0.006	85	62078	2.00	1.86	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	68	35843	2.00	2.16	
59 n-Heptane	43	5.352	5.352	0.000	95	43623	2.00	2.07	
60 Trichloroethene	95	5.753	5.747	0.006	92	17096	2.00	1.93	
62 Methylcyclohexane	83	5.893	5.887	0.006	94	26907	2.00	1.88	
63 1,2-Dichloropropane	63	5.978	5.972	0.006	86	19013	2.00	1.84	
64 Dibromomethane	93	6.112	6.100	0.012	91	10954	2.00	1.86	
66 1,4-Dioxane	88	6.130	6.124	0.006	30	2510	40.0	45.2	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	21960	2.00	1.86	M
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	83	13756	2.00	1.85	
71 cis-1,3-Dichloropropene	75	6.678	6.684	-0.006	83	25241	2.00	1.89	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	99	57179	10.0	9.72	
73 Toluene	92	6.976	6.982	-0.006	95	39386	2.00	1.89	
75 trans-1,3-Dichloropropene	75	7.244	7.237	0.007	86	22460	2.00	1.87	M
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	23184	2.00	2.07	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	92	12304	2.00	1.96	
79 Tetrachloroethene	166	7.517	7.517	0.000	92	16941	2.00	1.86	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	89	25112	2.00	2.00	
82 2-Hexanone	43	7.663	7.663	0.000	98	132065	10.0	10.4	M
83 Chlorodibromomethane	129	7.828	7.822	0.006	91	16269	2.00	1.85	
84 Ethylene Dibromide	107	7.931	7.931	0.000	99	15114	2.00	1.86	
85 Chlorobenzene	112	8.418	8.424	-0.006	93	47333	2.00	1.95	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	87	16929	2.00	1.89	
88 Ethylbenzene	91	8.521	8.521	0.000	98	78821	2.00	1.99	
90 m-Xylene & p-Xylene	106	8.649	8.643	0.006	0	30306	2.00	1.94	
91 o-Xylene	106	9.069	9.069	0.000	99	28855	2.00	1.84	
92 Styrene	104	9.093	9.093	0.000	94	47628	2.00	1.84	
93 Bromoform	173	9.318	9.324	-0.006	94	11291	2.00	1.79	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	78277	2.00	1.90	
97 Bromobenzene	156	9.793	9.787	0.007	87	20376	2.00	1.88	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	93	21000	2.00	1.83	M
99 1,2,3-Trichloropropane	110	9.872	9.866	0.006	91	6159	2.00	1.70	M
101 trans-1,4-Dichloro-2-buten	53	9.878	9.884	-0.006	62	9826	2.00	1.79	M
100 N-Propylbenzene	91	9.884	9.884	0.000	99	89875	2.00	1.88	
102 2-Chlorotoluene	126	9.981	9.981	0.000	95	19778	2.00	1.95	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	63765	2.00	1.84	
105 4-Chlorotoluene	91	10.091	10.091	0.000	97	64810	2.00	1.91	
106 tert-Butylbenzene	134	10.389	10.383	0.006	94	16101	2.00	2.04	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	66395	2.00	1.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	81104	2.00	1.87	
110 1,3-Dichlorobenzene	146	10.723	10.717	0.006	95	39619	2.00	1.93	
111 4-Isopropyltoluene	119	10.735	10.742	-0.007	98	73988	2.00	1.94	
113 1,4-Dichlorobenzene	146	10.808	10.809	-0.001	95	43384	2.00	2.04	
115 n-Butylbenzene	91	11.125	11.125	0.000	96	60809	2.00	1.87	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	95	37908	2.00	1.89	
117 1,2-Dibromo-3-Chloropropan	75	11.885	11.879	0.006	74	4092	2.00	1.85	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	93	24091	2.00	1.90	
120 Hexachlorobutadiene	225	12.700	12.694	0.006	91	12046	2.00	2.06	
121 Naphthalene	128	12.786	12.780	0.006	98	67476	2.00	1.81	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	93	22324	2.00	2.02	
S 125 Total BTEX	1				0			9.52	
S 126 Xylenes, Total	1				0			3.78	
S 123 1,3-Dichloropropene, Total	1				0			3.76	
S 124 1,2-Dichloroethene, Total	1				0			3.73	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 2.00

Units: uL

GAS CORP mix_00257

Amount Added: 2.00

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D

Injection Date: 28-Dec-2017 16:40:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC 2

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

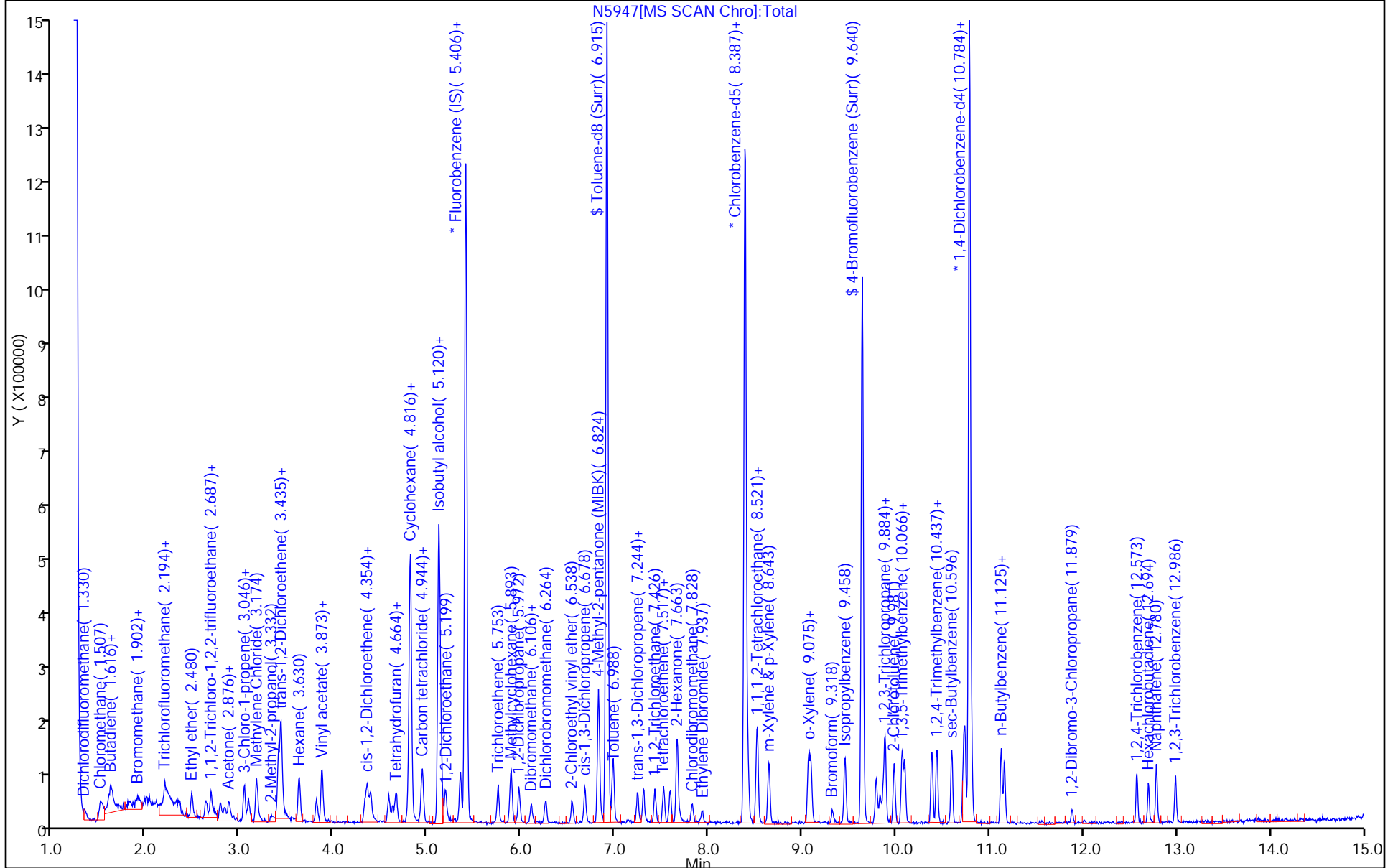
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

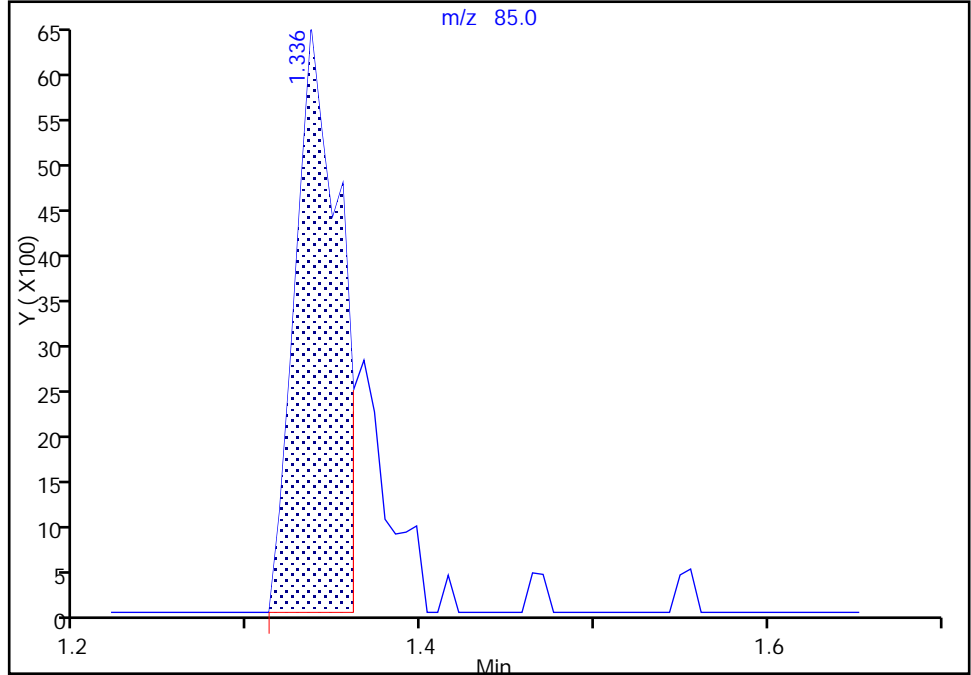
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

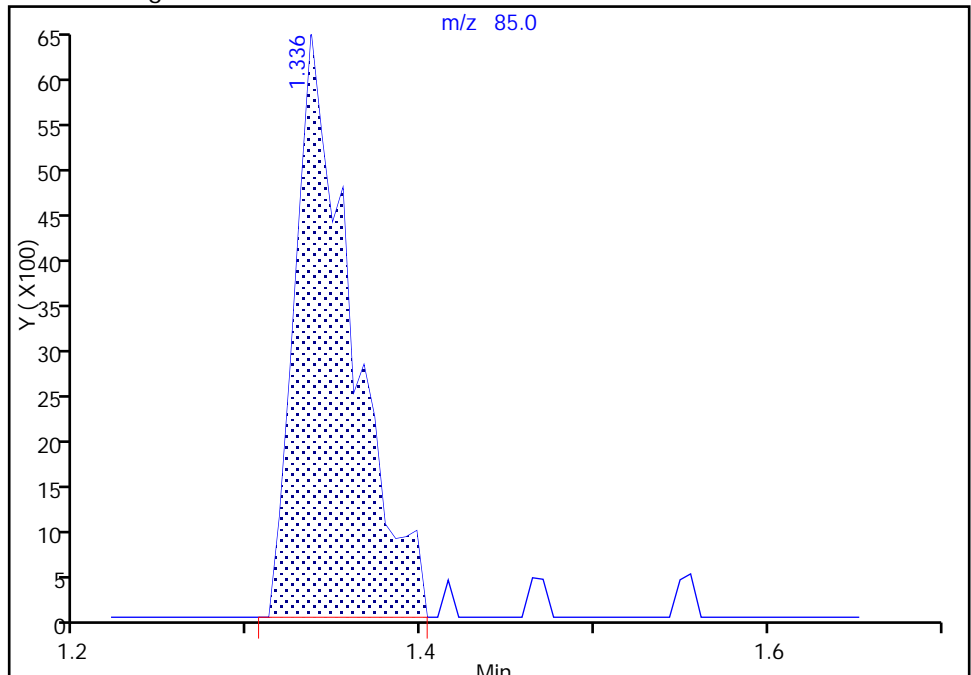
RT: 1.34
Area: 11703
Amount: 1.544603
Amount Units: ug/L

Processing Integration Results



RT: 1.34
Area: 14919
Amount: 1.752585
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:06:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

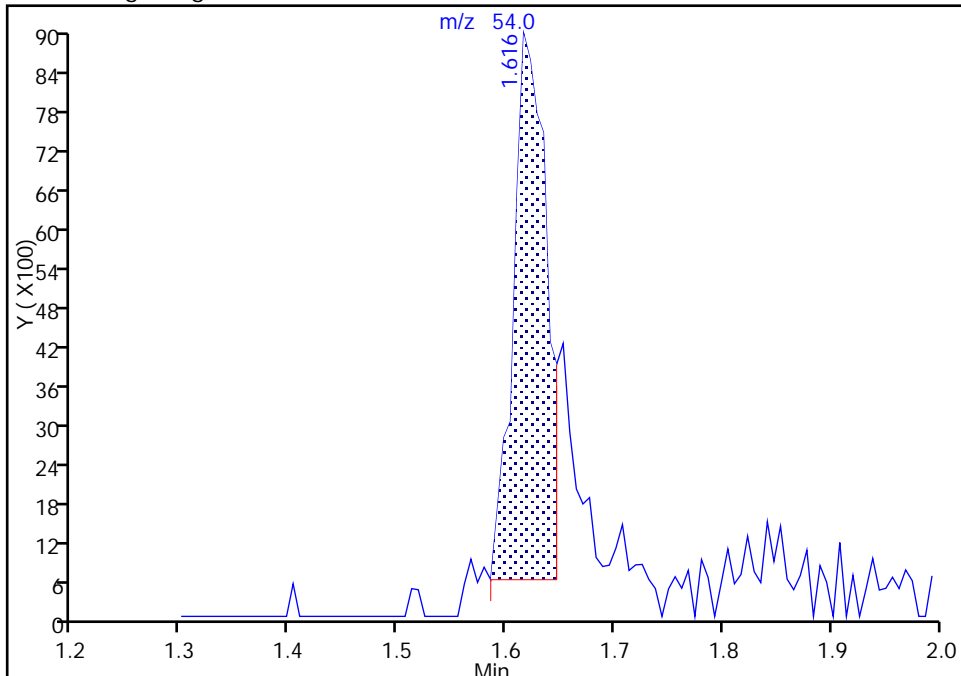
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

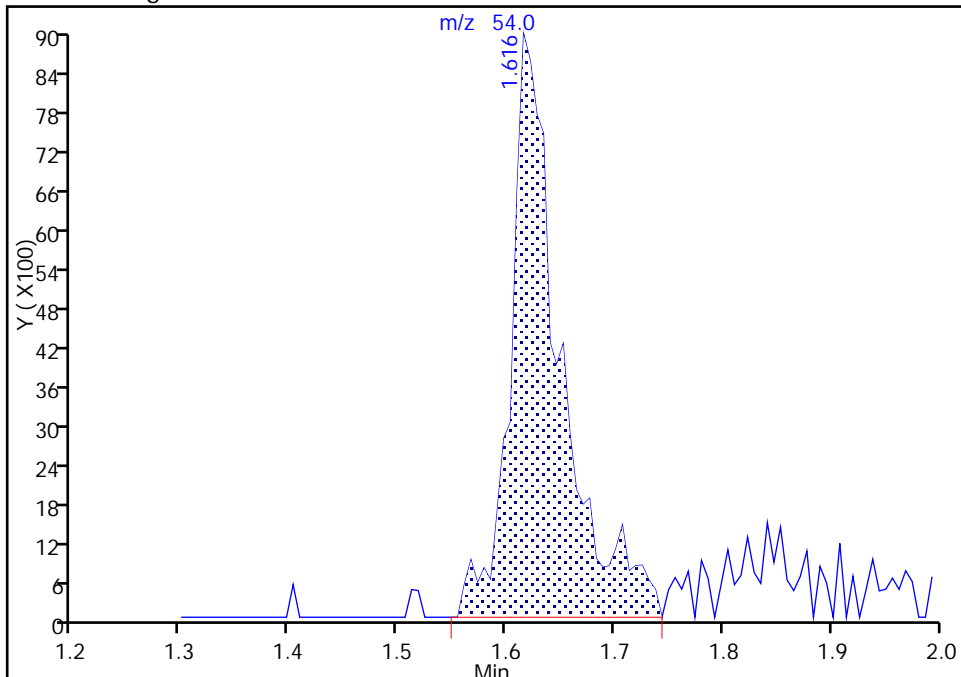
RT: 1.62
Area: 17813
Amount: 1.422426
Amount Units: ug/L

Processing Integration Results



RT: 1.62
Area: 28572
Amount: 1.890473
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:21:21
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

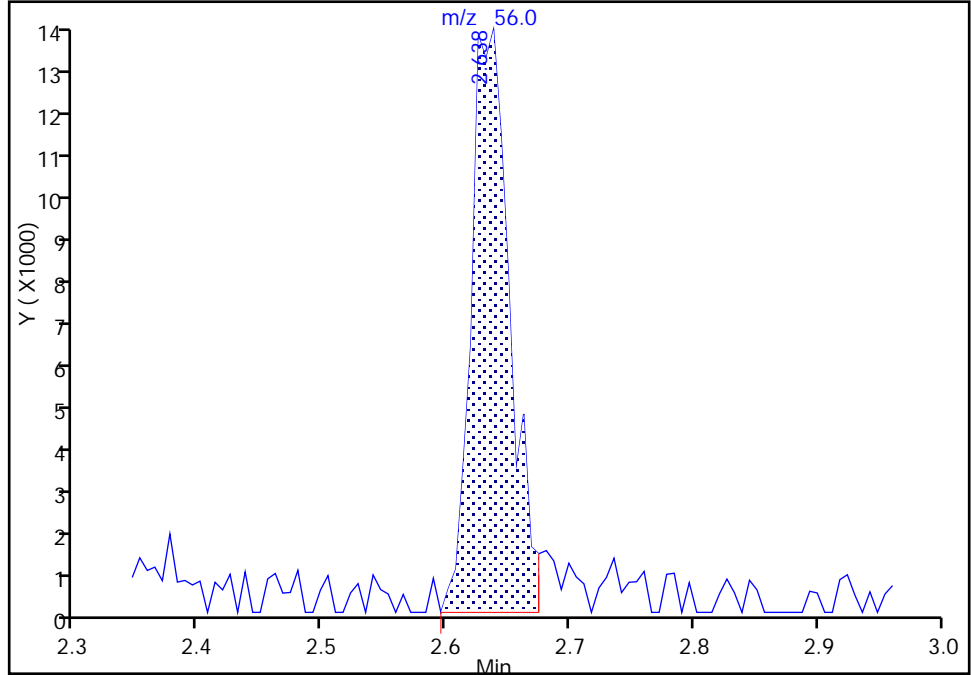
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

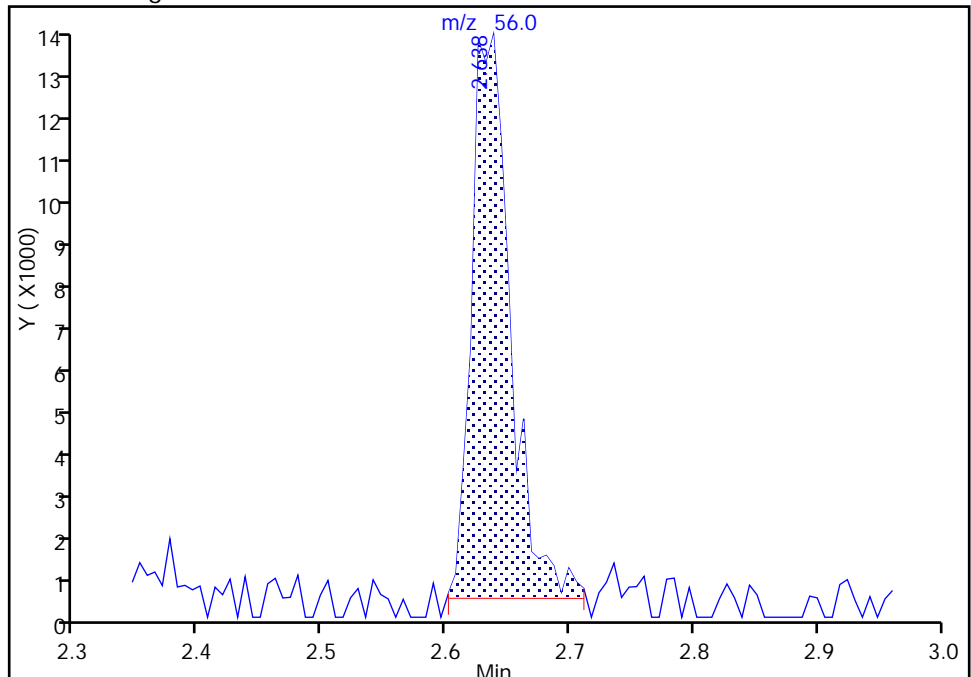
RT: 2.64
Area: 29746
Amount: 9.804860
Amount Units: ug/L

Processing Integration Results



RT: 2.64
Area: 28807
Amount: 9.532226
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:31:46
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

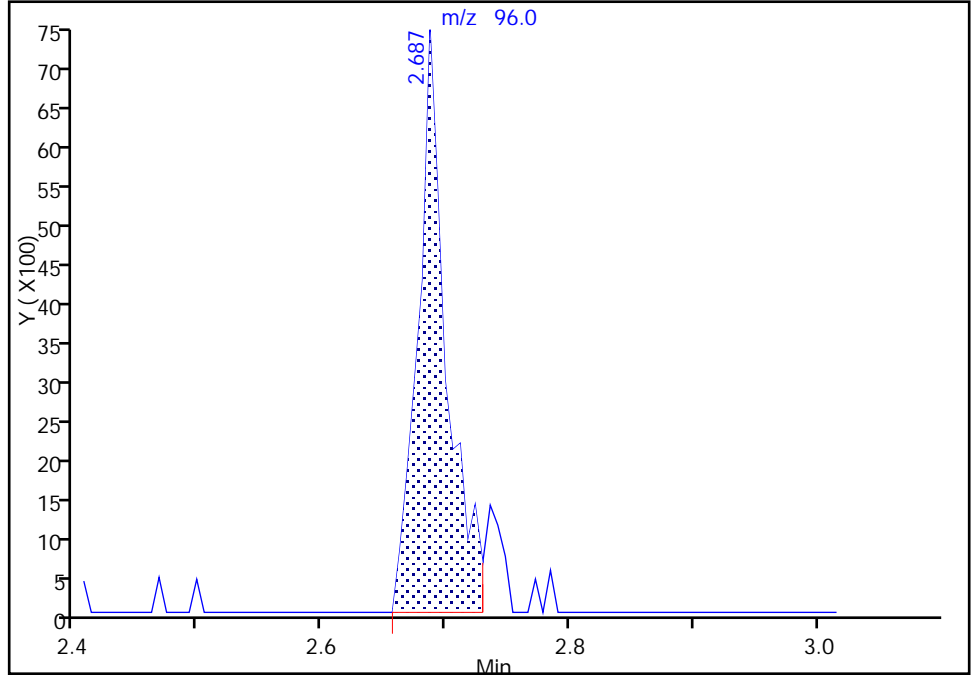
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

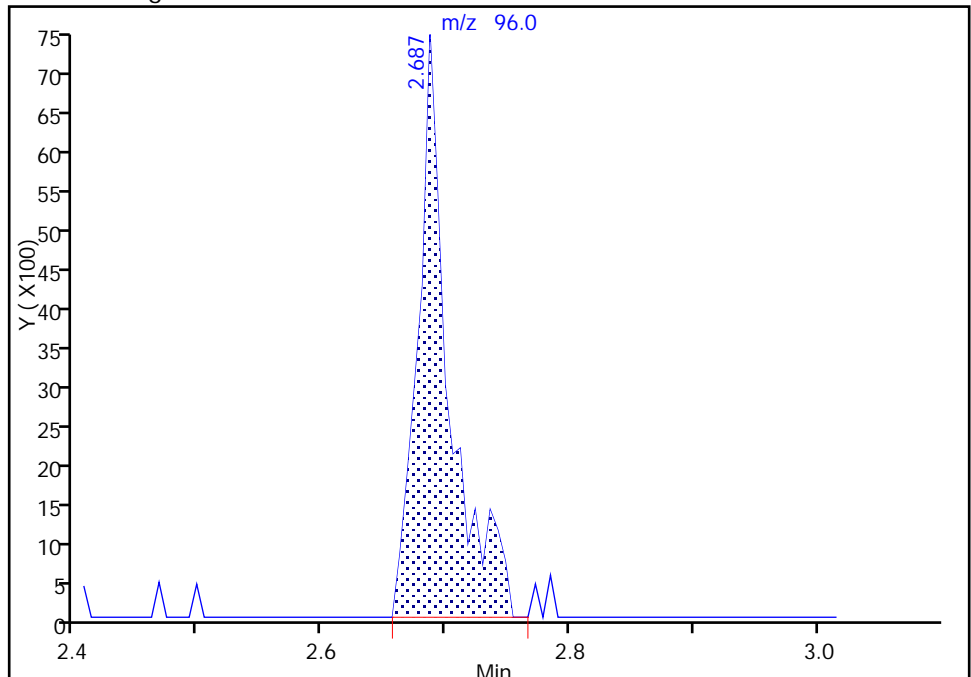
RT: 2.69
Area: 12086
Amount: 1.808413
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 13263
Amount: 1.906587
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:40:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

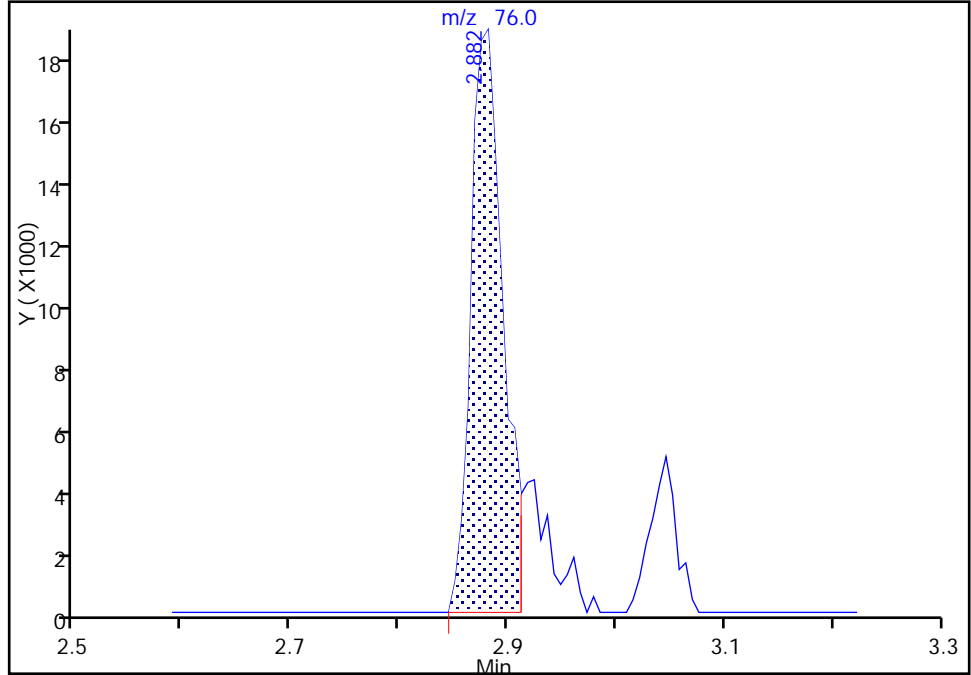
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

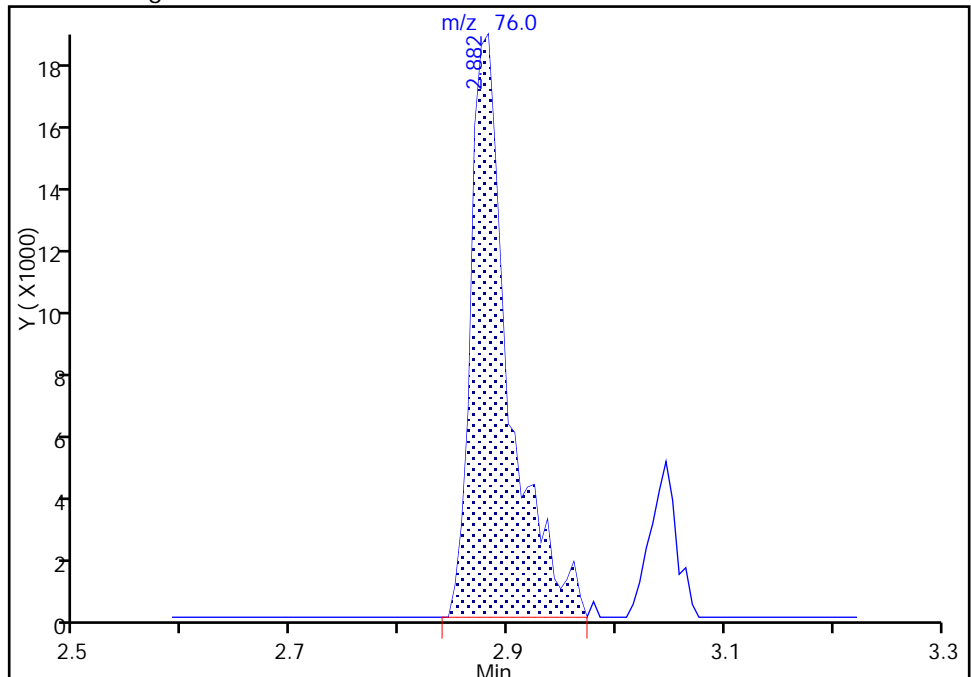
RT: 2.88
Area: 37496
Amount: 1.599487
Amount Units: ug/L

Processing Integration Results



RT: 2.88
Area: 44487
Amount: 1.862982
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:47:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

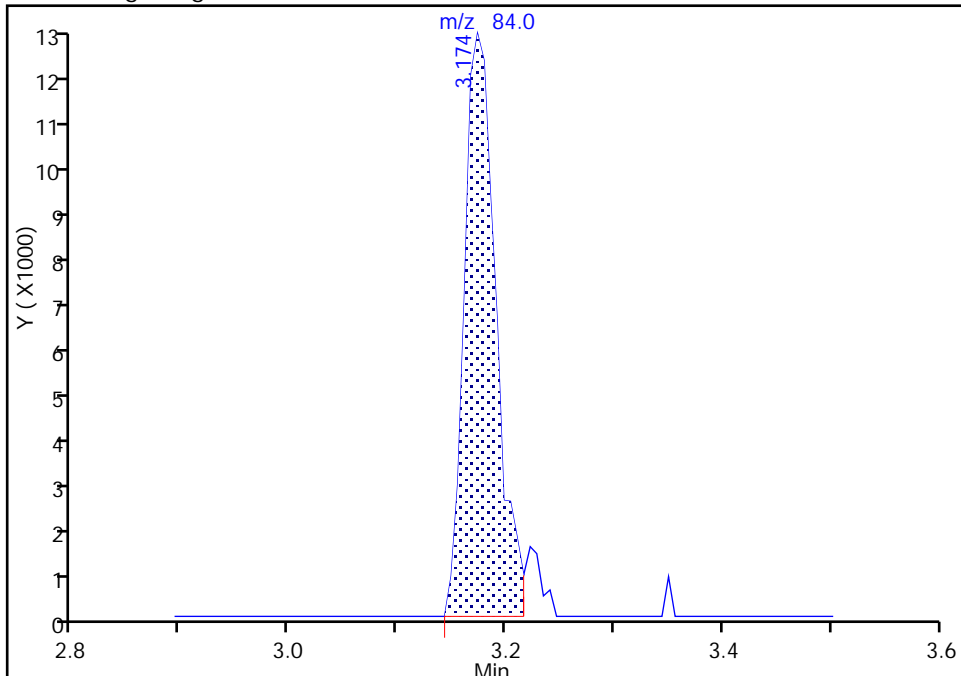
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

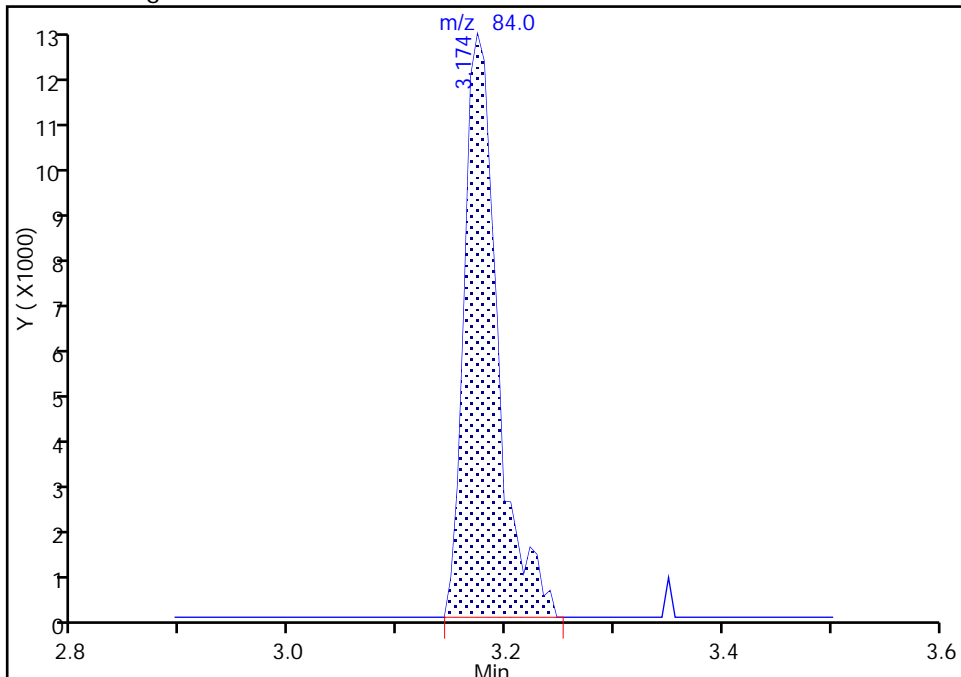
RT: 3.17
Area: 24461
Amount: 2.007720
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 25821
Amount: 2.118352
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:36:01
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

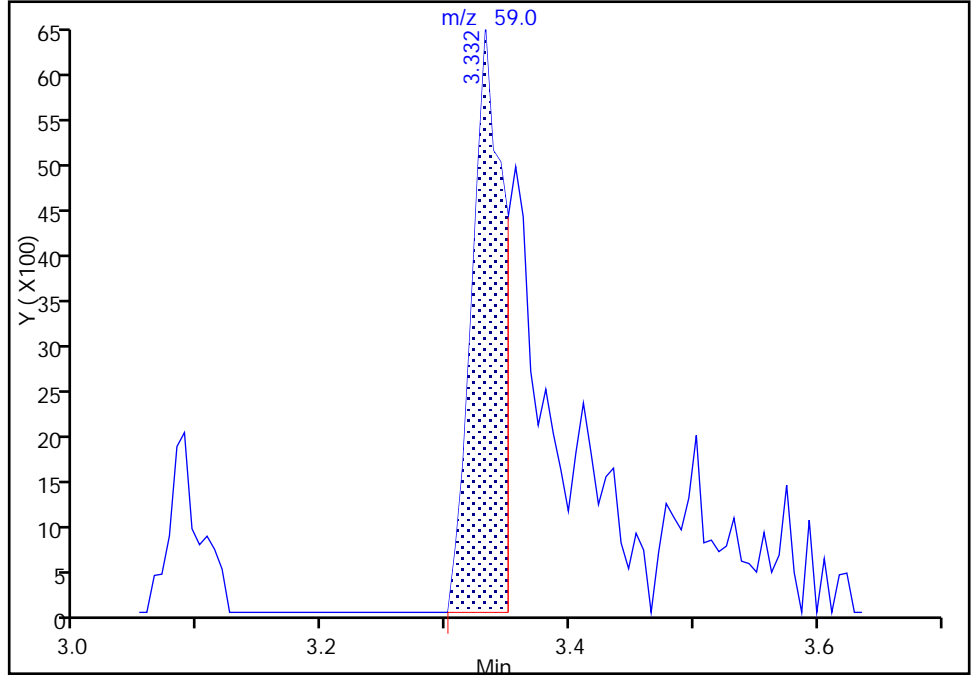
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

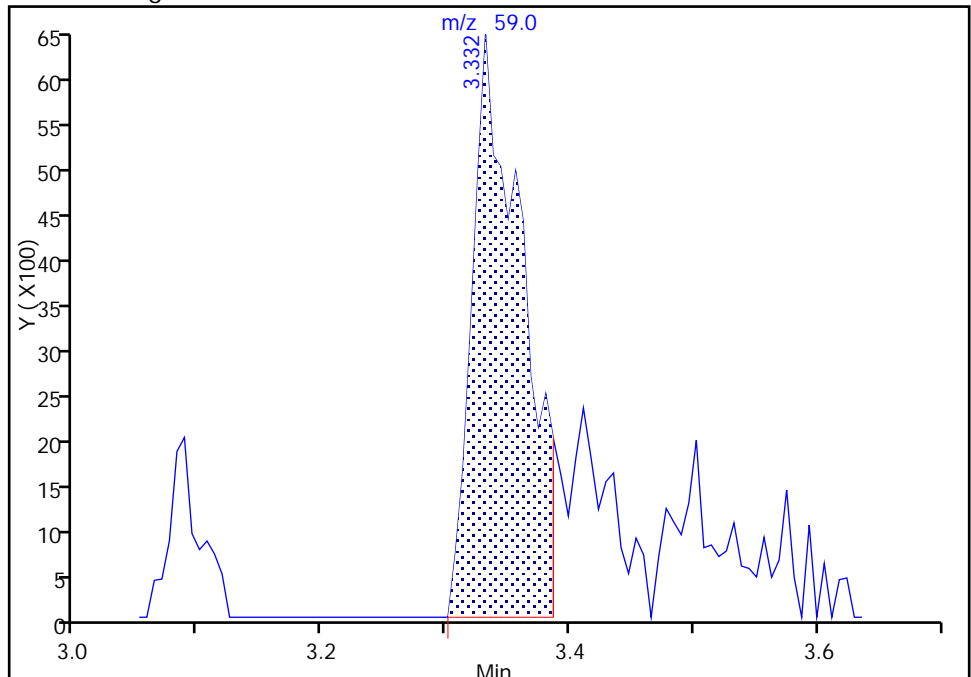
RT: 3.33
Area: 11528
Amount: 13.674946
Amount Units: ug/L

Processing Integration Results



RT: 3.33
Area: 18318
Amount: 20.759265
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:50:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

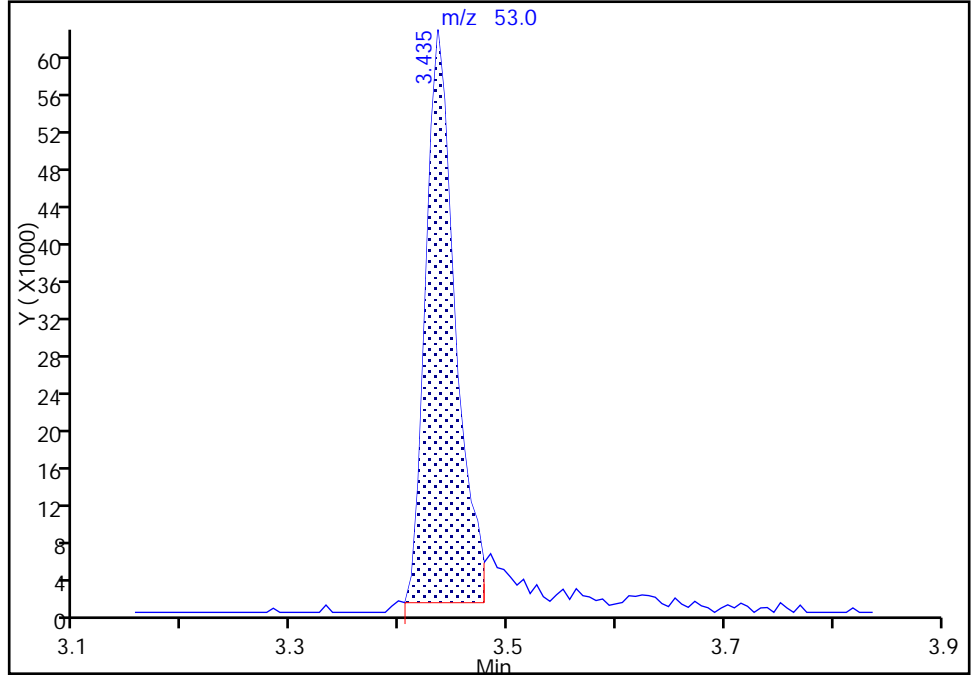
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

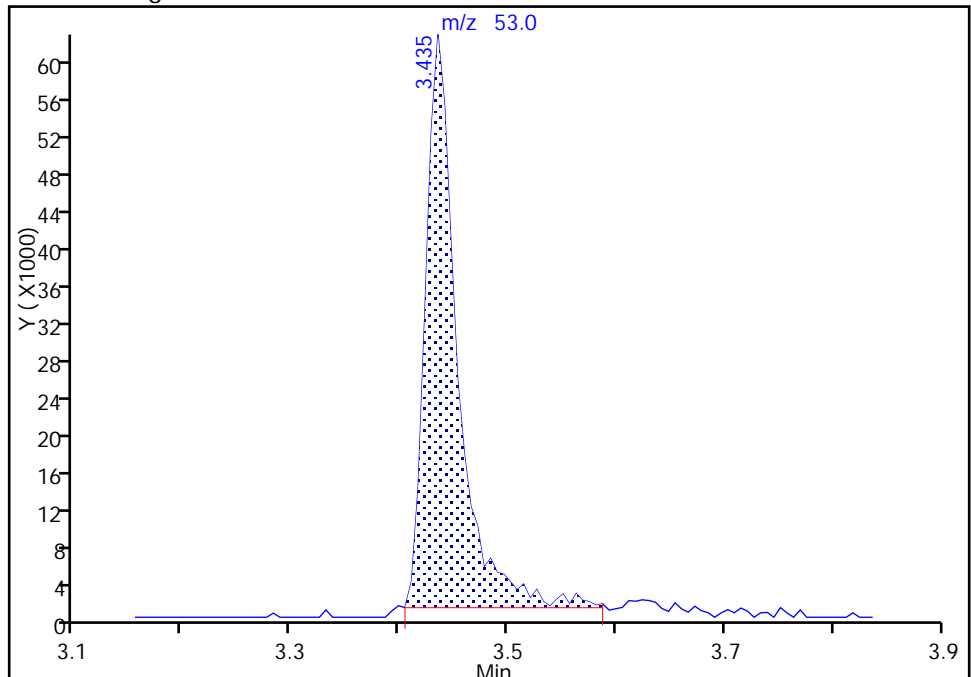
RT: 3.44
Area: 116697
Amount: 17.568078
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 127749
Amount: 18.539645
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:04:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

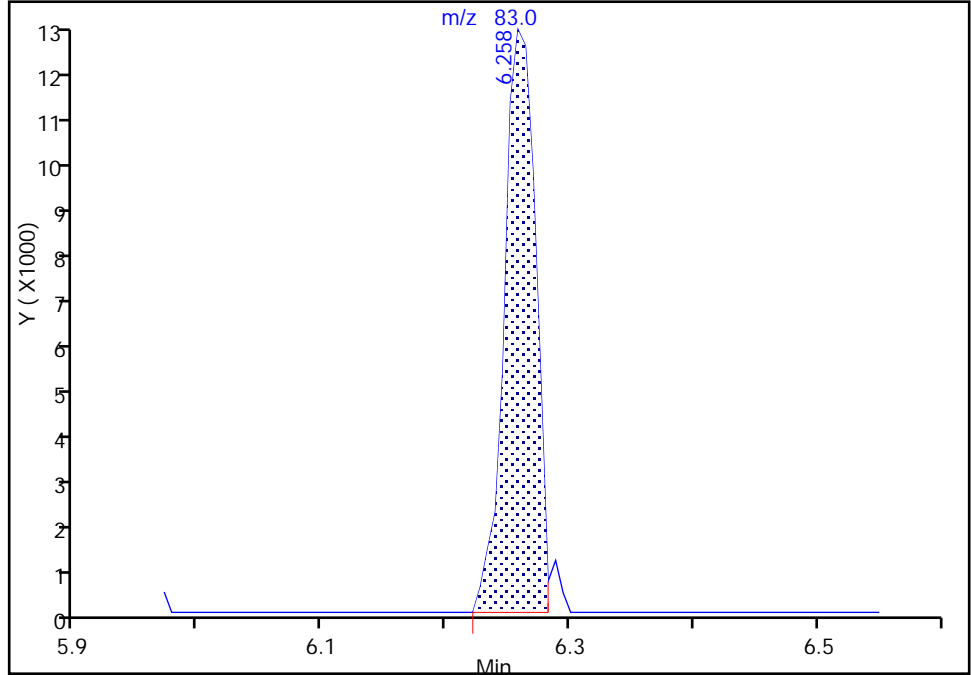
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

67 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

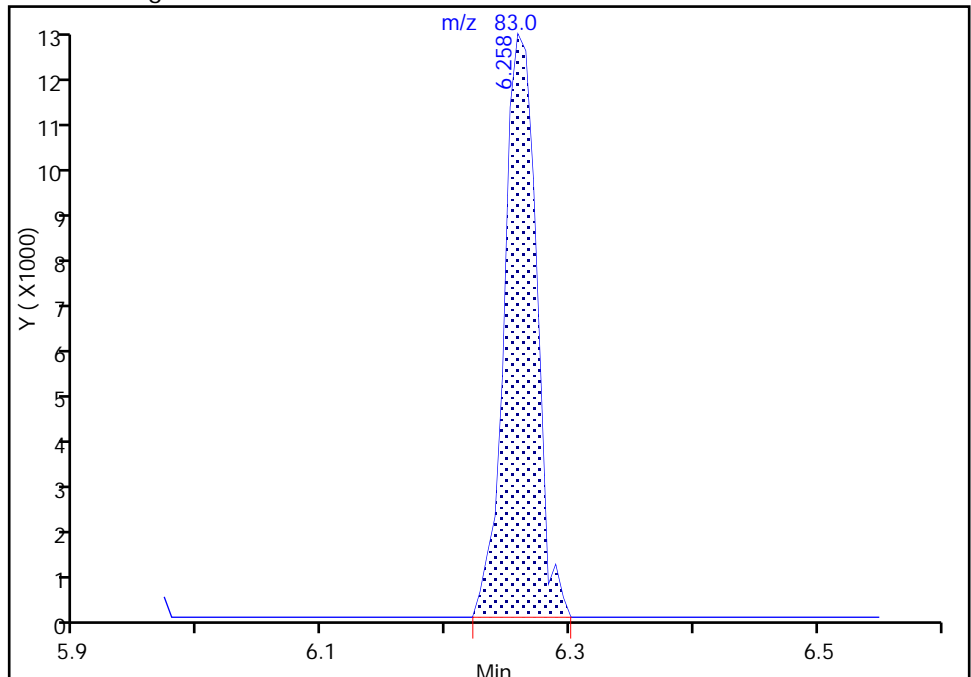
RT: 6.26
Area: 21413
Amount: 1.819690
Amount Units: ug/L

Processing Integration Results



RT: 6.26
Area: 21960
Amount: 1.859998
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:36:52
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

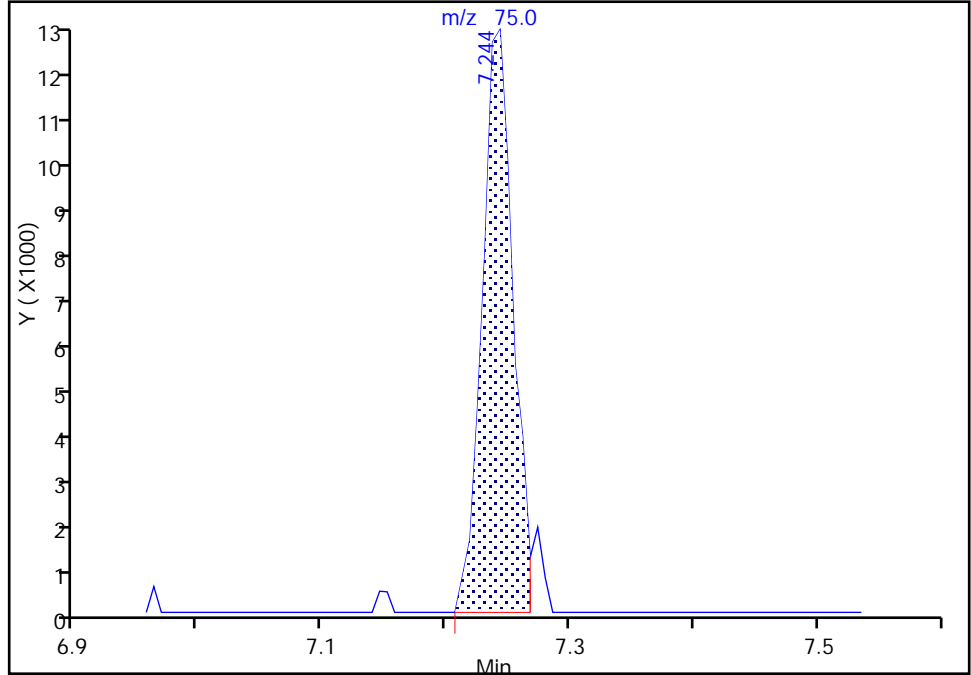
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

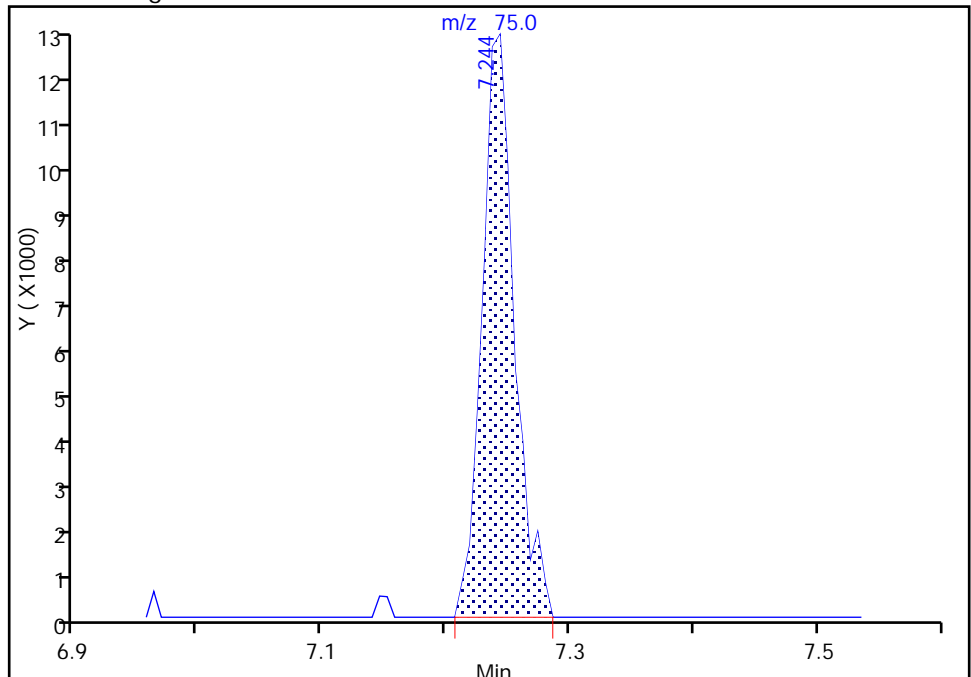
RT: 7.24
Area: 21526
Amount: 1.801454
Amount Units: ug/L

Processing Integration Results



RT: 7.24
Area: 22460
Amount: 1.870480
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:37:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

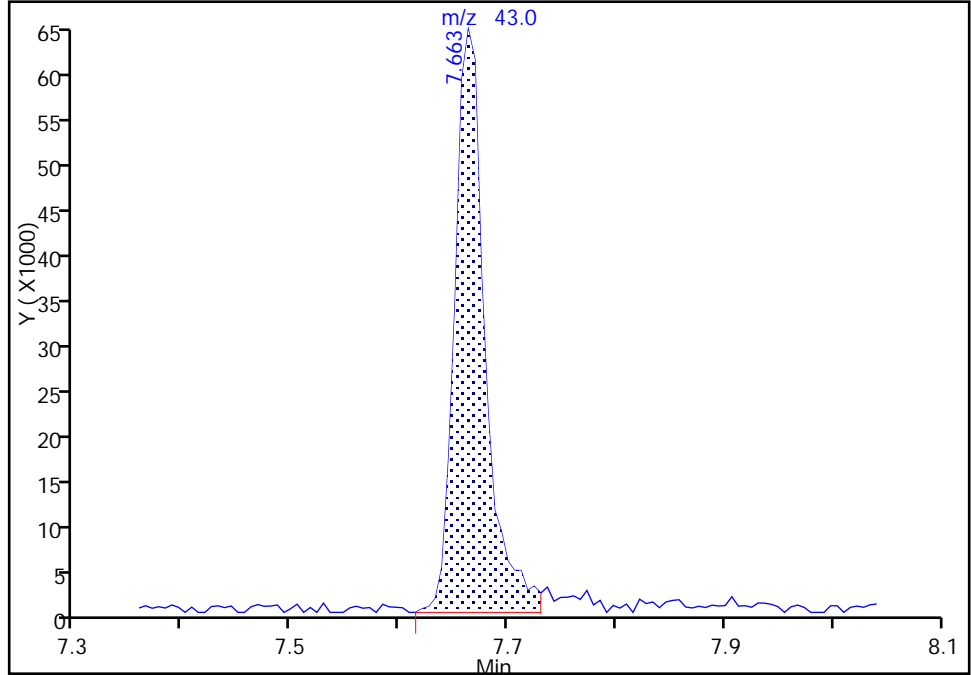
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

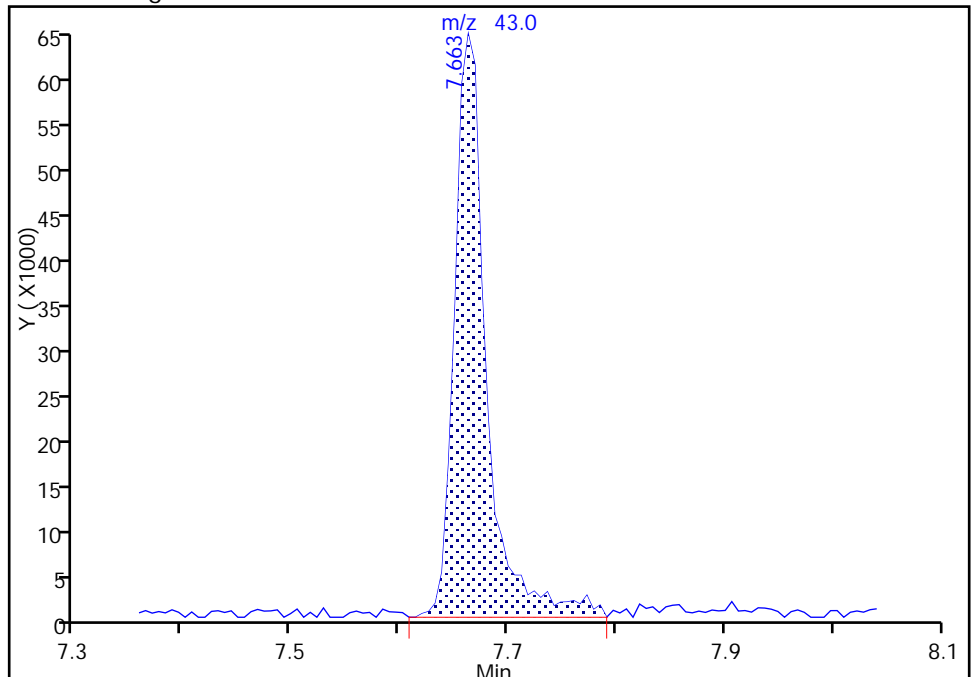
RT: 7.66
Area: 126504
Amount: 10.135125
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 132065
Amount: 10.416648
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:07:26
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

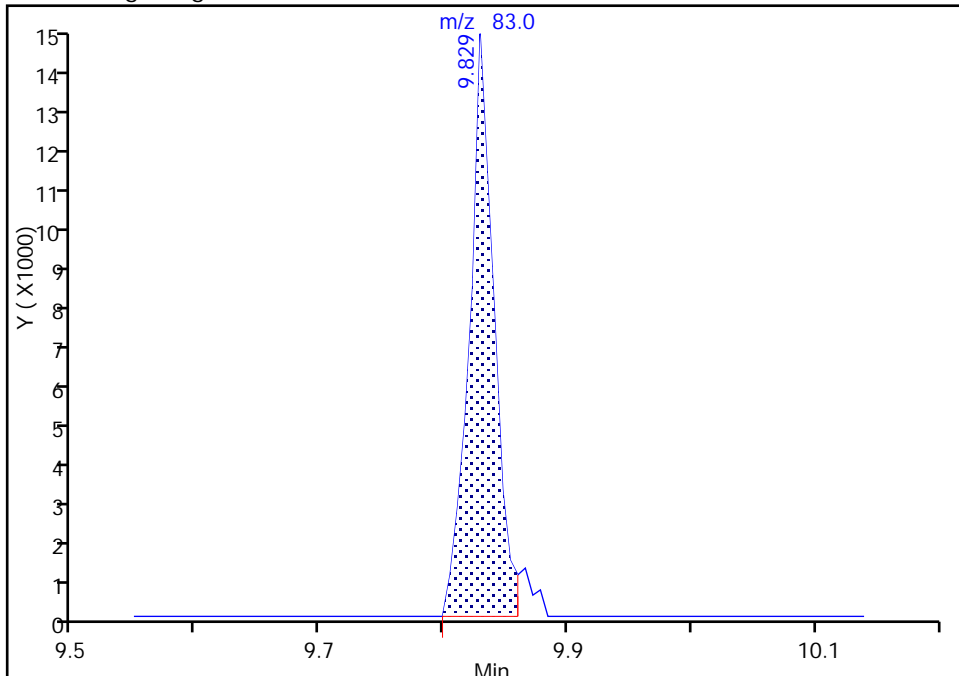
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

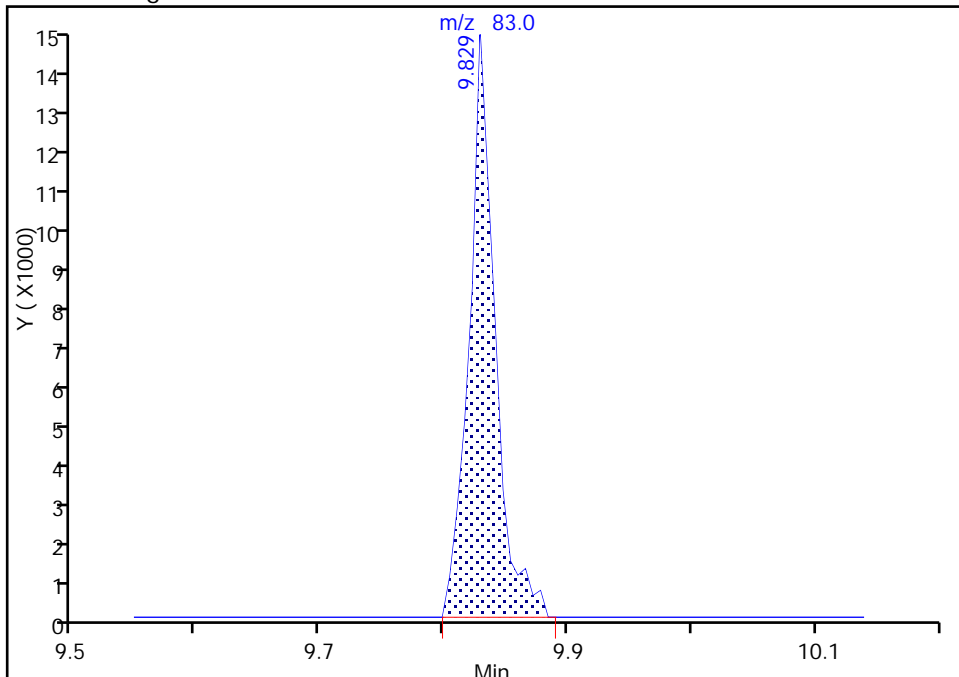
RT: 9.83
Area: 20123
Amount: 1.762874
Amount Units: ug/L

Processing Integration Results



RT: 9.83
Area: 21000
Amount: 1.829663
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:38:53
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

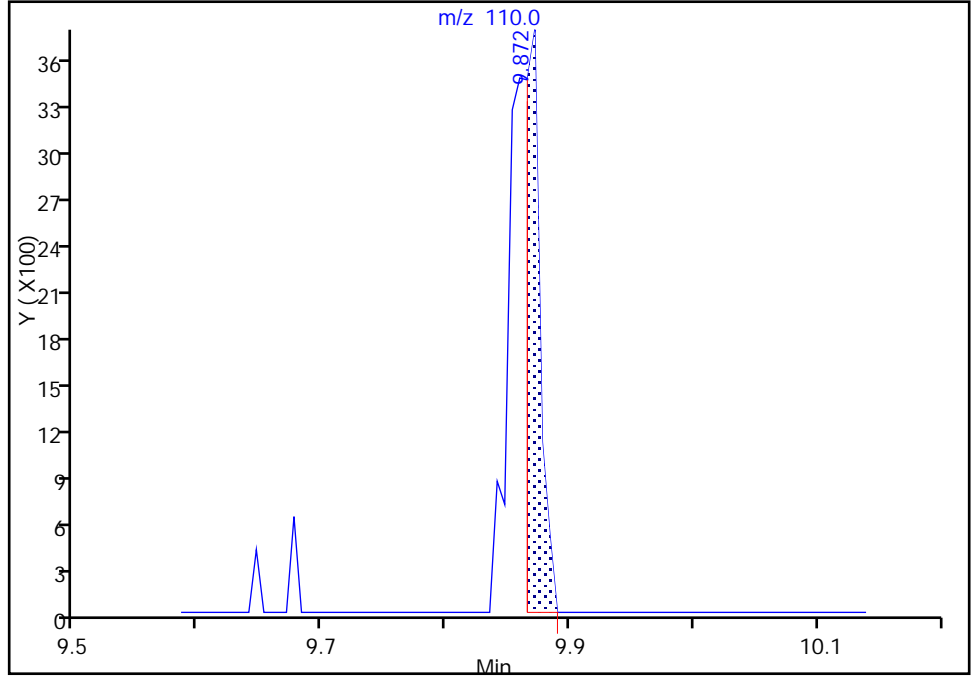
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

99 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

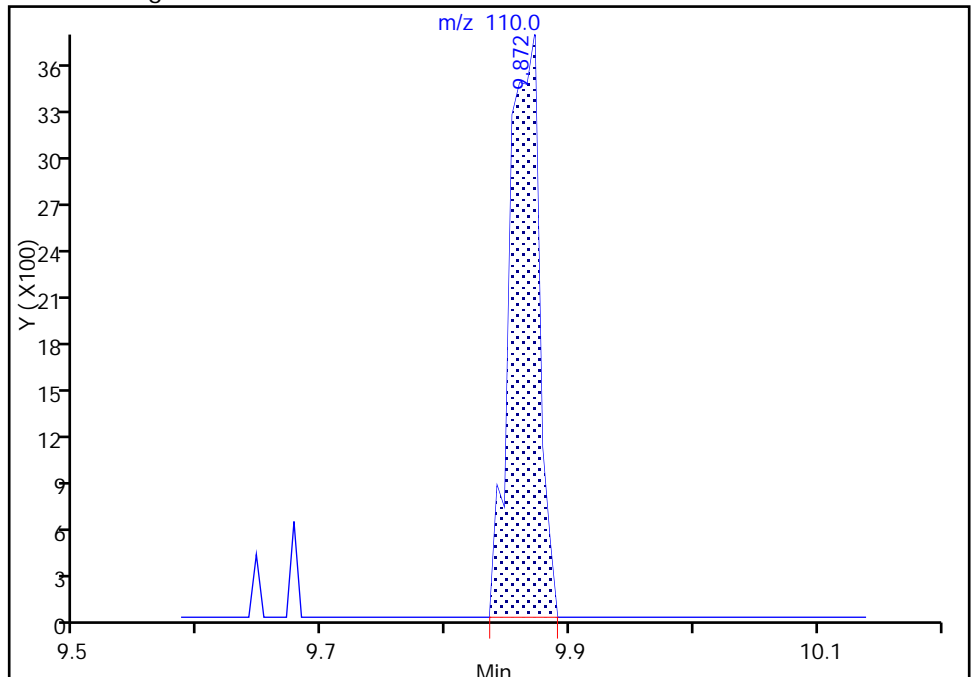
RT: 9.87
Area: 3182
Amount: 0.800820
Amount Units: ug/L

Processing Integration Results



RT: 9.87
Area: 6159
Amount: 1.695876
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:12:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

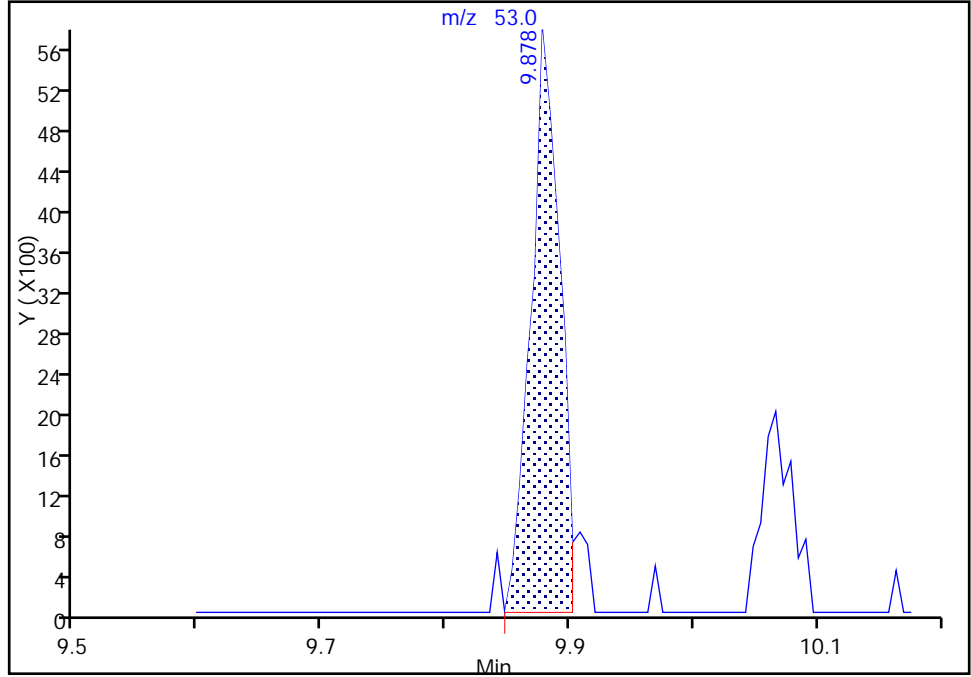
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5947.D
Injection Date: 28-Dec-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

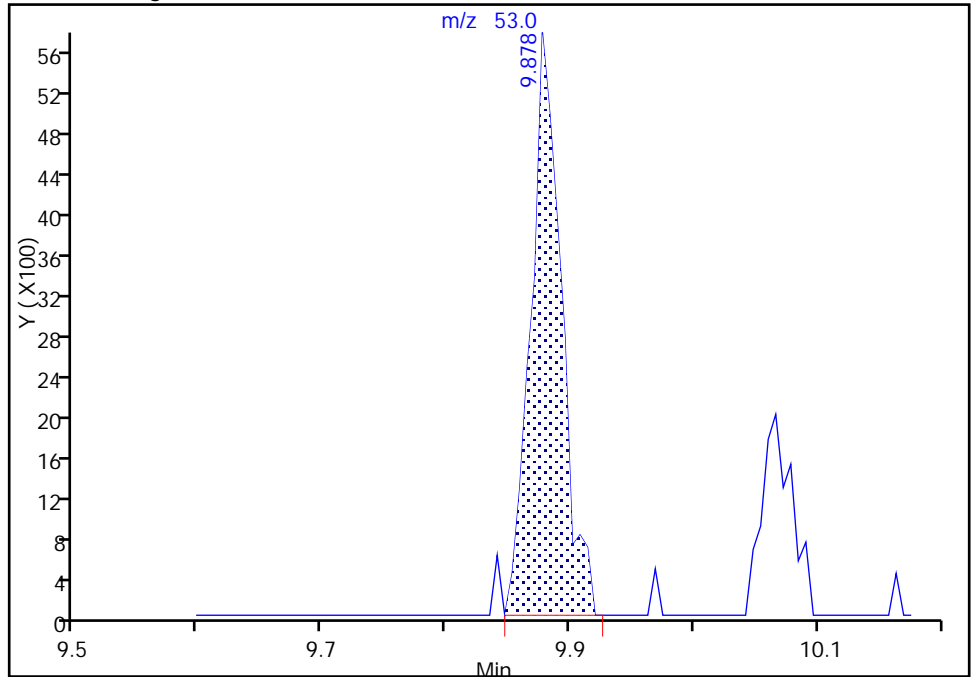
RT: 9.88
Area: 9294
Amount: 1.709533
Amount Units: ug/L

Processing Integration Results



RT: 9.88
Area: 9826
Amount: 1.794844
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:39:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5948.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 28-Dec-2017 17:07:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0068271-009
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:32:47 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: sonkera

Date: 02-Jan-2018 22:14:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	171734	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	640117	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	349687	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	95	222535	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	298030	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	808921	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.641	9.641	0.000	90	270857	25.0	25.0	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	45678	5.00	5.52	
13 Chloromethane	50	1.507	1.507	0.000	99	101800	5.00	5.31	
14 Vinyl chloride	62	1.592	1.592	0.000	97	67353	5.00	5.31	
144 Butadiene	54	1.622	1.622	0.000	98	75638	5.00	5.14	M
15 Bromomethane	94	1.908	1.908	0.000	92	34721	5.00	5.28	
16 Chloroethane	64	1.993	1.993	0.000	95	40254	5.00	5.40	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	94	86969	5.00	5.10	
18 Trichlorofluoromethane	101	2.206	2.206	0.000	96	72021	5.00	5.56	
19 Ethyl ether	59	2.480	2.480	0.000	93	57499	5.00	5.06	
20 Acrolein	56	2.632	2.632	0.000	99	71456	25.0	24.3	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	94	37949	5.00	5.61	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.717	0.000	79	33085	5.00	5.18	
23 Acetone	43	2.784	2.784	0.000	97	93163	25.0	24.1	
24 Iodomethane	142	2.833	2.833	0.000	100	68281	5.00	5.02	
25 Carbon disulfide	76	2.876	2.876	0.000	99	120594	5.00	5.19	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	85	126567	5.00	5.31	
28 Methyl acetate	43	3.082	3.082	0.000	99	131379	10.0	9.26	
30 Methylene Chloride	84	3.174	3.174	0.000	89	49752	5.00	5.04	M
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	96	39936	50.0	46.5	
32 Methyl tert-butyl ether	73	3.411	3.411	0.000	95	136087	5.00	4.88	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	90	45239	5.00	5.63	
34 Acrylonitrile	53	3.435	3.435	0.000	96	329488	50.0	49.1	M
35 Hexane	57	3.624	3.624	0.000	95	95369	5.00	5.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	94558	5.00	5.19	
39 Vinyl acetate	43	3.867	3.867	0.000	97	360744	10.0	10.0	
42 2,2-Dichloropropane	77	4.330	4.330	0.000	84	59902	5.00	5.27	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	89	46332	5.00	4.97	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	212260	25.0	25.6	
47 Chlorobromomethane	128	4.585	4.585	0.000	86	24159	5.00	4.97	
49 Tetrahydrofuran	42	4.622	4.622	0.000	95	57302	10.0	9.86	M
50 Chloroform	83	4.664	4.664	0.000	95	78084	5.00	5.11	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	97	64682	5.00	5.13	
52 Cyclohexane	56	4.816	4.816	0.000	54	109577	5.00	5.51	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	82	57768	5.00	5.36	
53 Carbon tetrachloride	117	4.944	4.944	0.000	79	59986	5.00	5.56	
56 Isobutyl alcohol	43	5.139	5.139	0.000	54	77038	125.0	119.1	
55 Benzene	78	5.145	5.145	0.000	94	167558	5.00	5.16	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	81960	5.00	5.08	
59 n-Heptane	43	5.352	5.352	0.000	95	113547	5.00	5.54	
60 Trichloroethene	95	5.747	5.747	0.000	92	45374	5.00	5.27	
62 Methylcyclohexane	83	5.887	5.887	0.000	93	75252	5.00	5.41	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	90	55471	5.00	5.50	
64 Dibromomethane	93	6.100	6.100	0.000	94	30044	5.00	5.25	M
66 1,4-Dioxane	88	6.124	6.124	0.000	28	7009	100.0	103.6	
67 Dichlorobromomethane	83	6.258	6.258	0.000	94	59175	5.00	5.15	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	86	37252	5.00	5.16	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	83	65725	5.00	5.06	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	157522	25.0	26.5	
73 Toluene	92	6.982	6.982	0.000	97	108017	5.00	5.13	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	89	61423	5.00	5.07	
77 Ethyl methacrylate	69	7.304	7.304	0.000	86	55543	5.00	4.92	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	93	31911	5.00	5.03	
79 Tetrachloroethene	166	7.517	7.517	0.000	95	48527	5.00	5.29	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	89	64359	5.00	5.08	
82 2-Hexanone	43	7.663	7.663	0.000	97	330753	25.0	25.8	M
83 Chlorodibromomethane	129	7.822	7.822	0.000	90	43809	5.00	4.93	
84 Ethylene Dibromide	107	7.931	7.931	0.000	95	42222	5.00	5.14	
85 Chlorobenzene	112	8.424	8.424	0.000	94	127409	5.00	5.19	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	87	44220	5.00	4.90	
88 Ethylbenzene	91	8.521	8.521	0.000	99	205484	5.00	5.14	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	82975	5.00	5.26	
91 o-Xylene	106	9.069	9.069	0.000	96	82246	5.00	5.21	
92 Styrene	104	9.093	9.093	0.000	92	141118	5.00	5.41	
93 Bromoform	173	9.324	9.324	0.000	95	31188	5.00	4.89	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	209028	5.00	5.07	
97 Bromobenzene	156	9.787	9.787	0.000	91	54520	5.00	5.04	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	97	57300	5.00	4.99	
99 1,2,3-Trichloropropane	110	9.866	9.866	0.000	96	17771	5.00	4.89	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	240727	5.00	5.03	
101 trans-1,4-Dichloro-2-buten	53	9.884	9.884	0.000	64	24111	5.00	4.41	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	52236	5.00	5.16	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	177800	5.00	5.14	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	173153	5.00	5.11	
106 tert-Butylbenzene	134	10.383	10.383	0.000	95	40249	5.00	5.11	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	178041	5.00	4.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	95	220430	5.00	5.09	
110 1,3-Dichlorobenzene	146	10.717	10.717	0.000	98	107758	5.00	5.26	
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	195896	5.00	5.14	
113 1,4-Dichlorobenzene	146	10.809	10.809	0.000	96	104523	5.00	4.92	
115 n-Butylbenzene	91	11.125	11.125	0.000	97	172259	5.00	5.30	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	97	99743	5.00	4.98	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	83	10991	5.00	4.98	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	59043	5.00	4.65	
120 Hexachlorobutadiene	225	12.694	12.694	0.000	94	30317	5.00	5.20	
121 Naphthalene	128	12.780	12.780	0.000	97	182259	5.00	4.89	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	53363	5.00	4.82	
S 123 1,3-Dichloropropene, Total	1				0			10.1	
S 124 1,2-Dichloroethene, Total	1				0			10.6	
S 125 Total BTEX	1				0			25.9	
S 126 Xylenes, Total	1				0			10.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 5.00

Units: uL

GAS CORP mix_00257

Amount Added: 5.00

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5948.D

Injection Date: 28-Dec-2017 17:07:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC 3

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

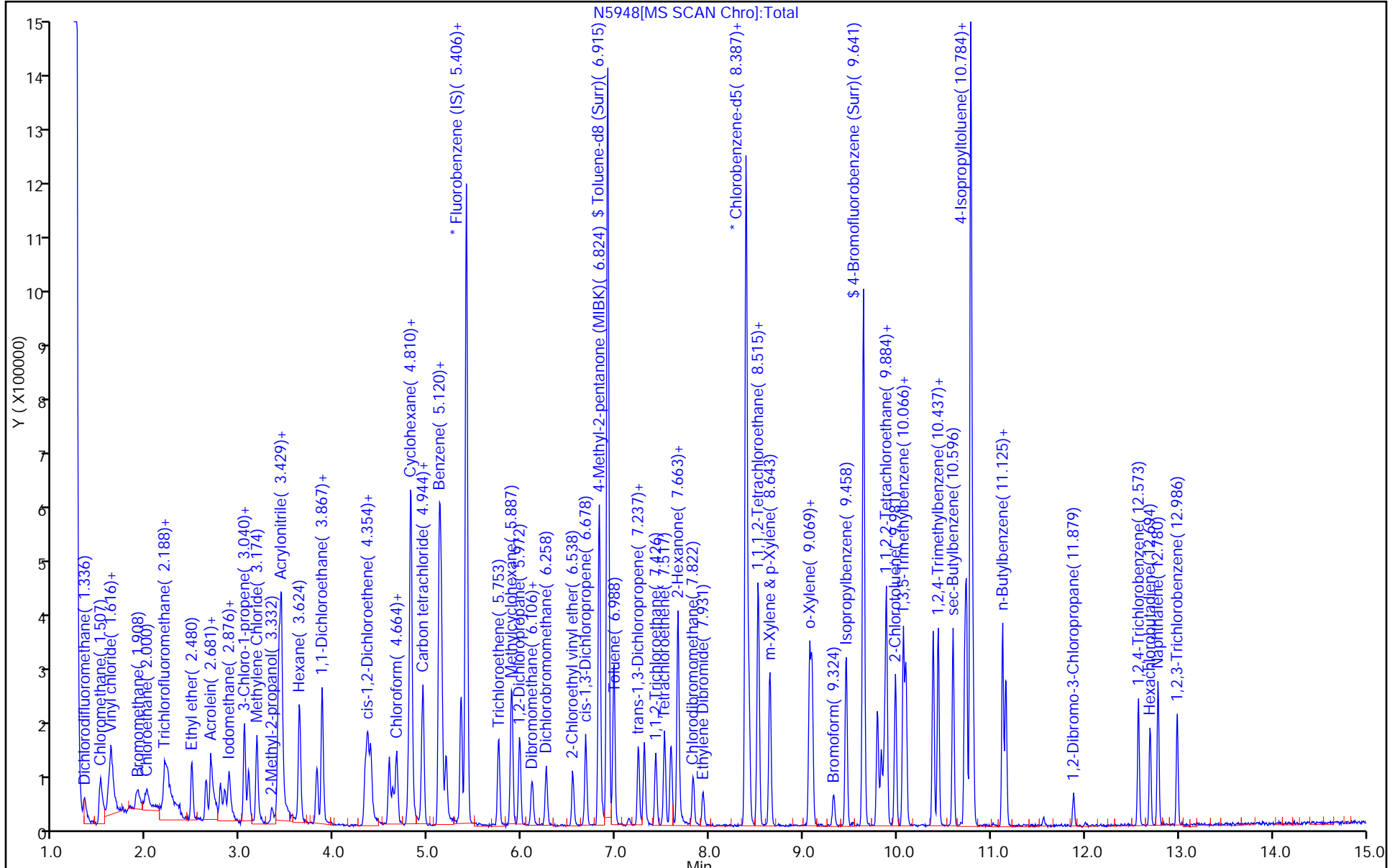
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

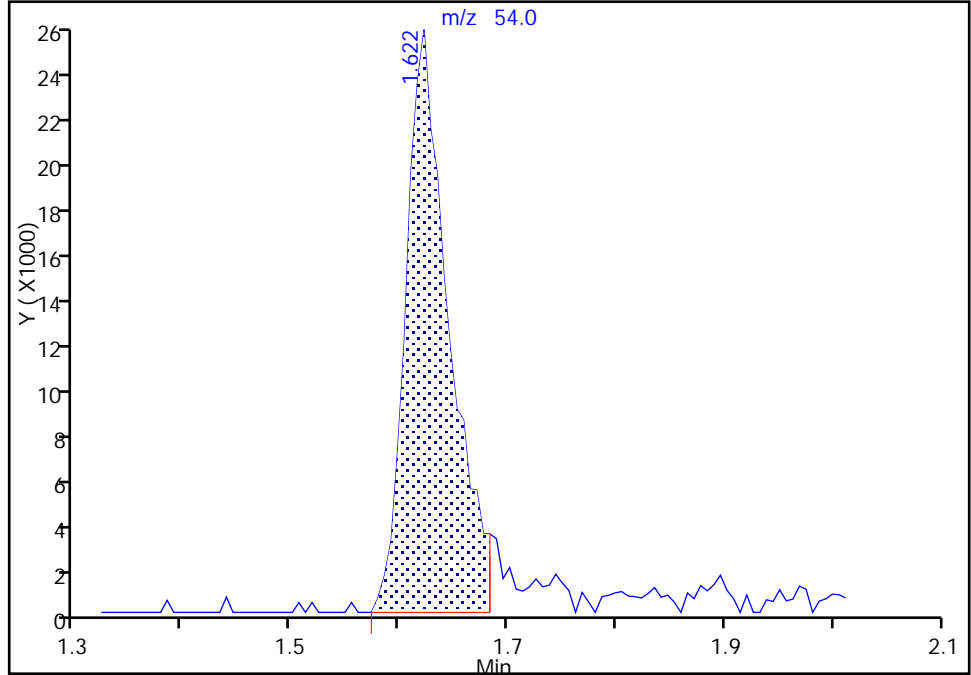
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Injection Date: 28-Dec-2017 17:07:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

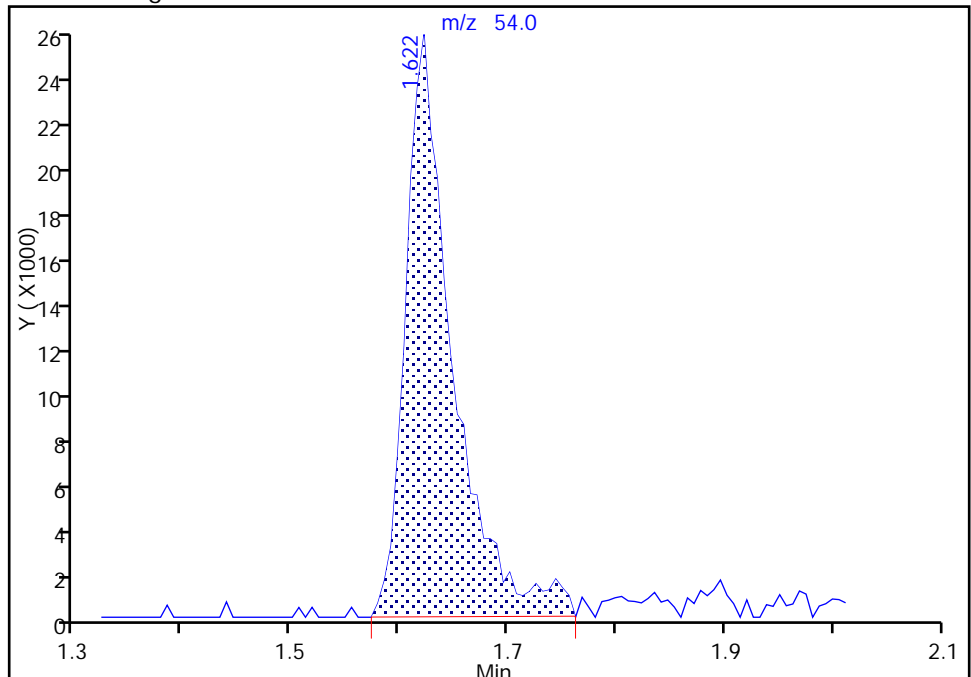
RT: 1.62
Area: 69708
Amount: 4.796019
Amount Units: ug/L

Processing Integration Results



RT: 1.62
Area: 75638
Amount: 5.144049
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:41:37
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

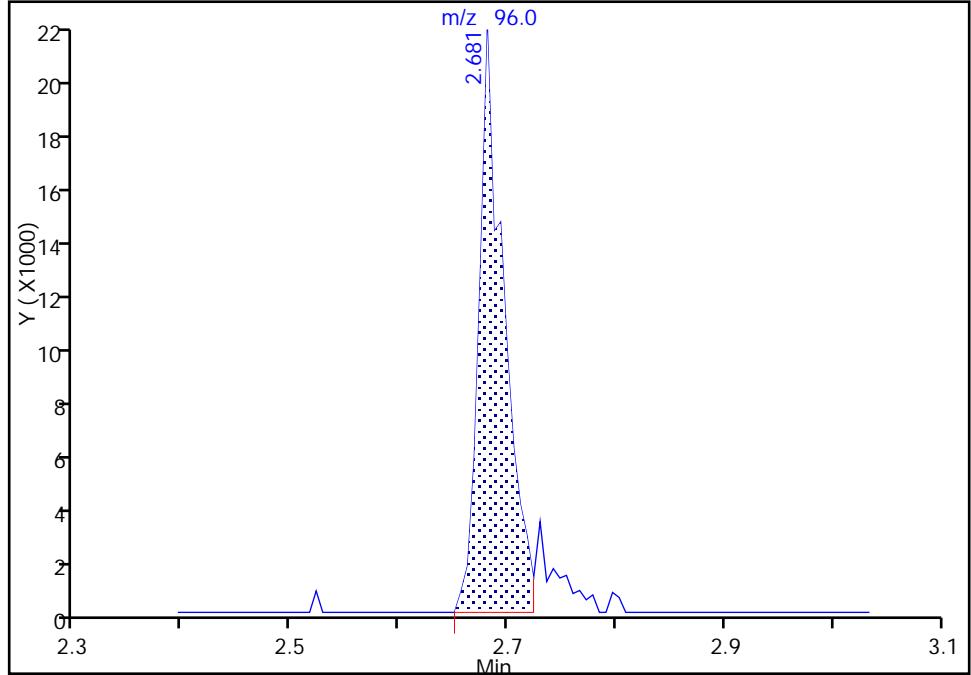
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Injection Date: 28-Dec-2017 17:07:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

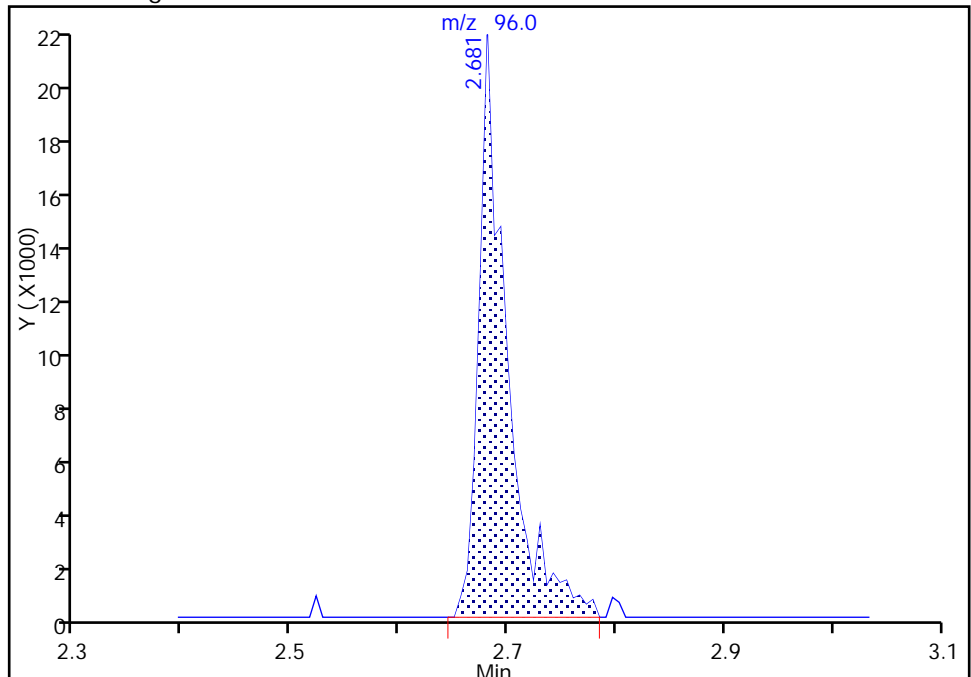
RT: 2.68
Area: 33903
Amount: 5.085432
Amount Units: ug/L

Processing Integration Results



RT: 2.68
Area: 37949
Amount: 5.607255
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:41:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

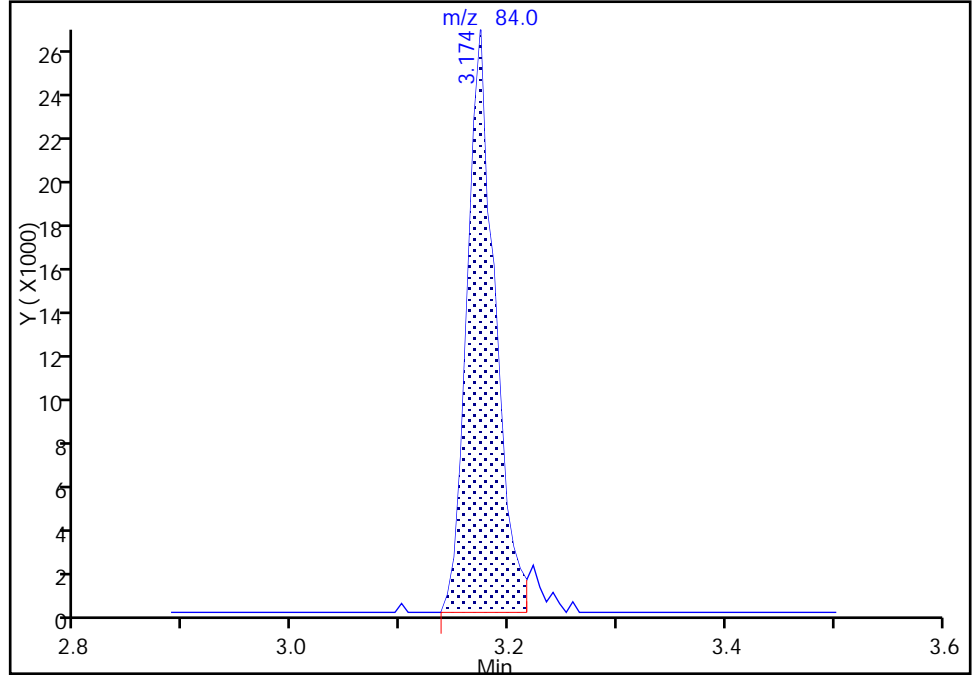
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Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

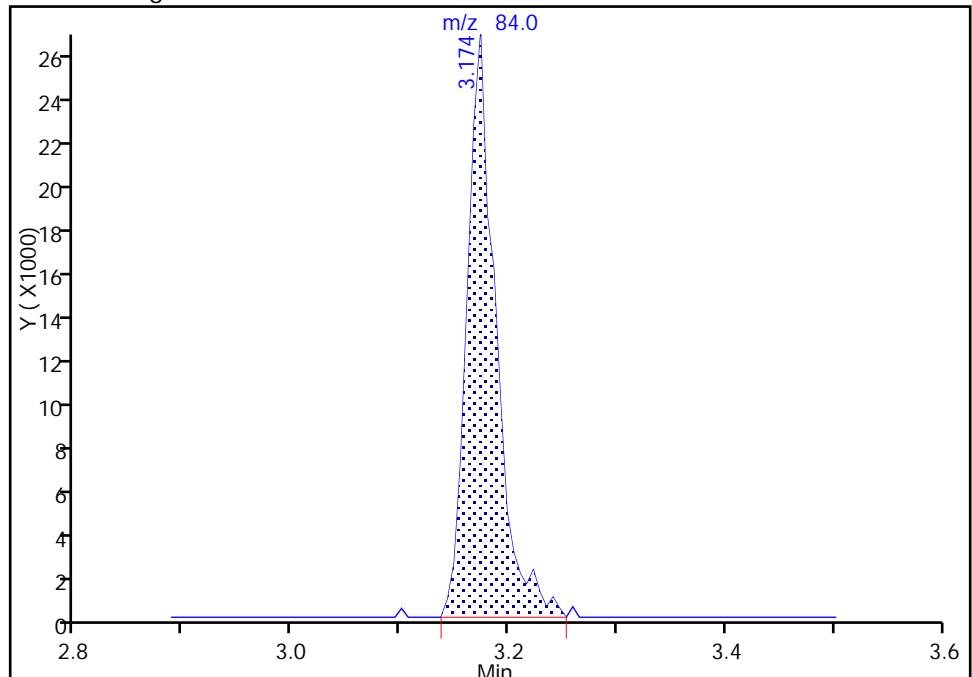
RT: 3.17
Area: 47869
Amount: 4.853504
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 49752
Amount: 5.041477
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:42:43
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

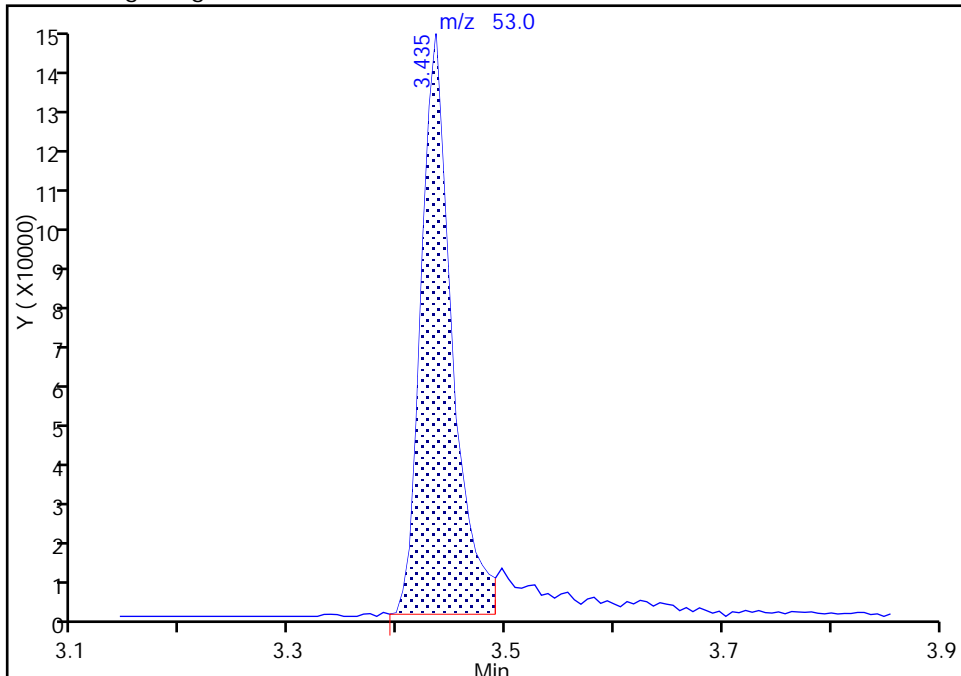
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Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

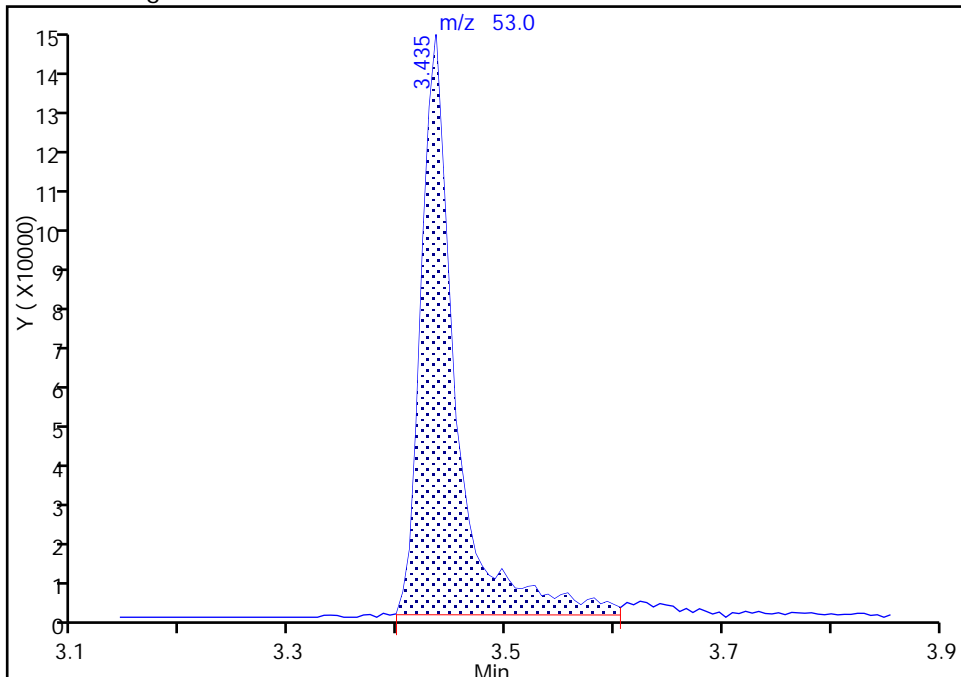
RT: 3.44
Area: 293936
Amount: 45.015250
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 329488
Amount: 49.149452
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:05:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

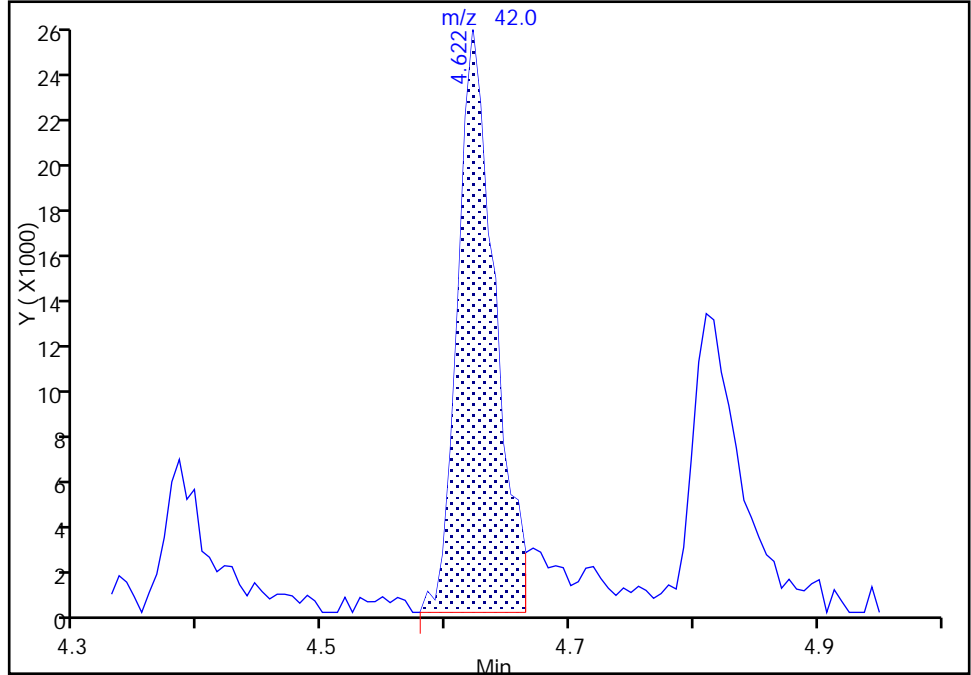
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Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

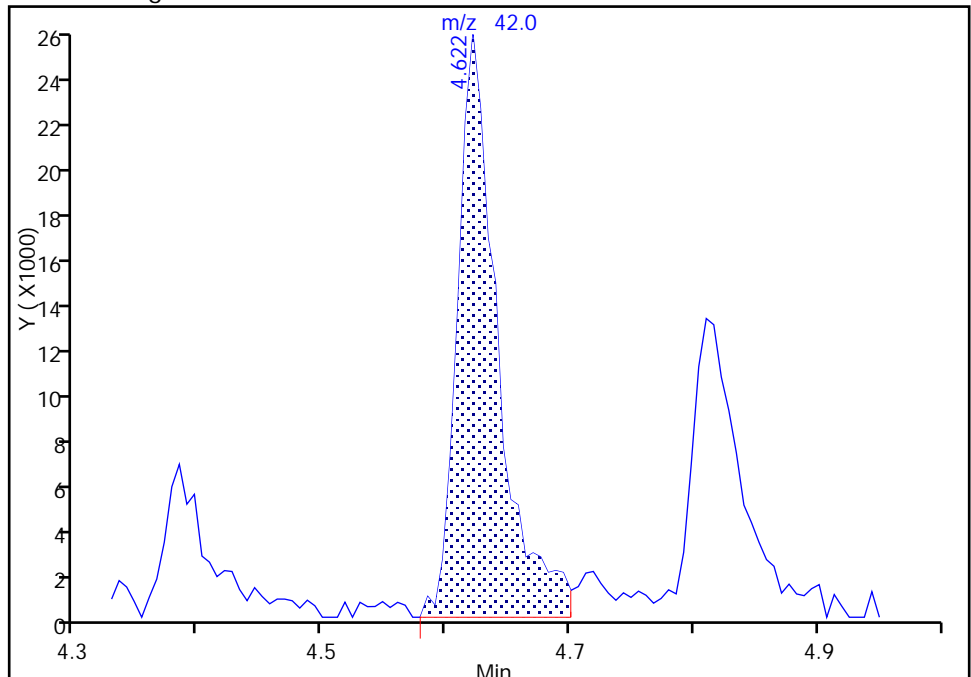
RT: 4.62
Area: 52746
Amount: 8.852161
Amount Units: ug/L

Processing Integration Results



RT: 4.62
Area: 57302
Amount: 9.855303
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:13:52
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

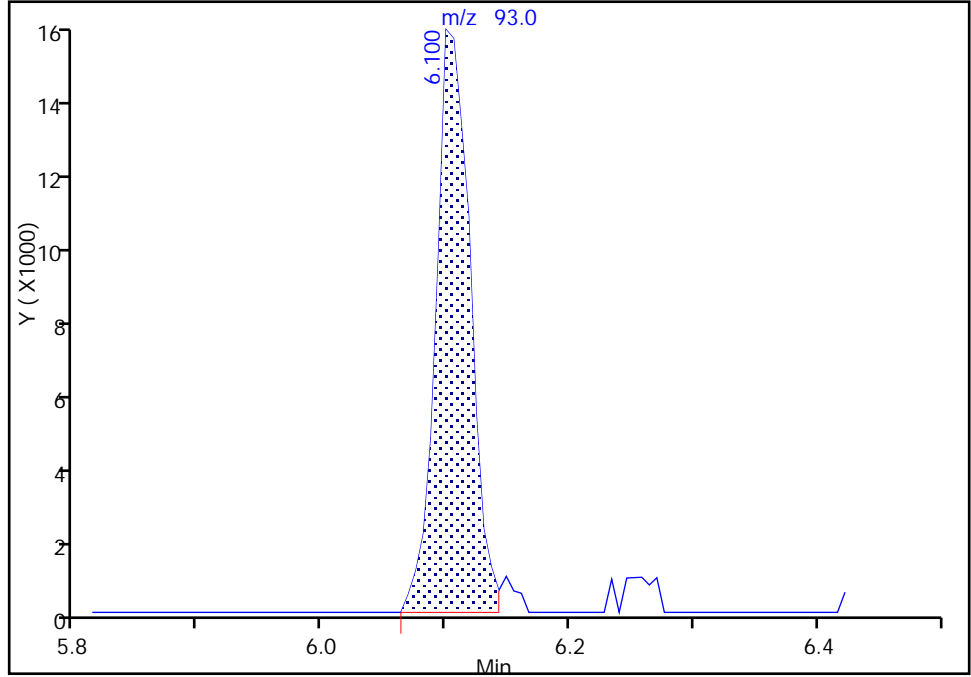
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Injection Date: 28-Dec-2017 17:07:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

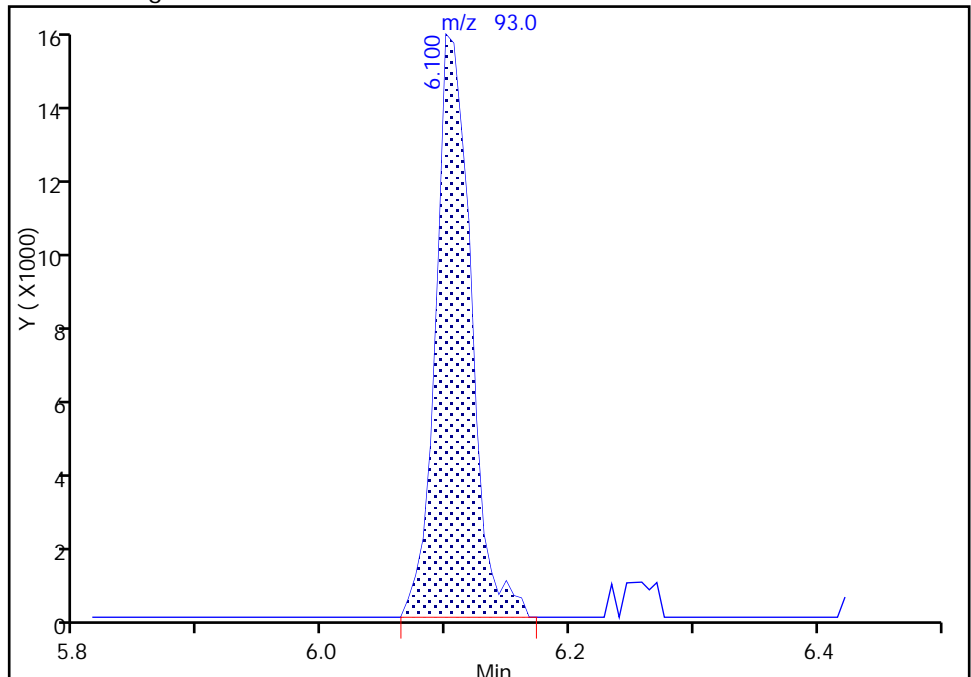
RT: 6.10
Area: 29307
Amount: 5.145066
Amount Units: ug/L

Processing Integration Results



RT: 6.10
Area: 30044
Amount: 5.250212
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:43:50
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

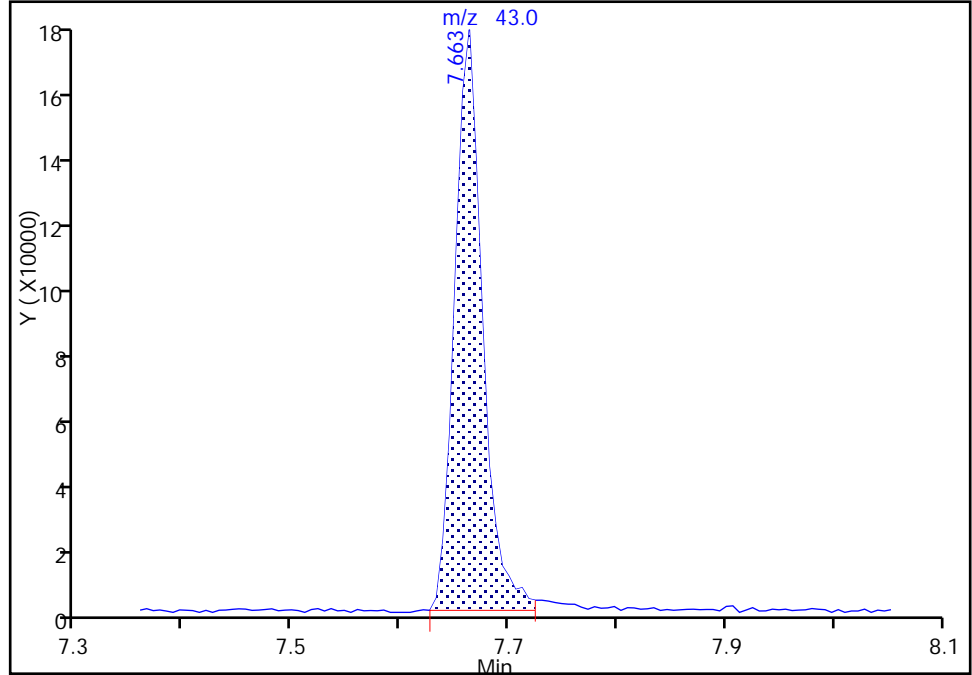
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Injection Date: 28-Dec-2017 17:07:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

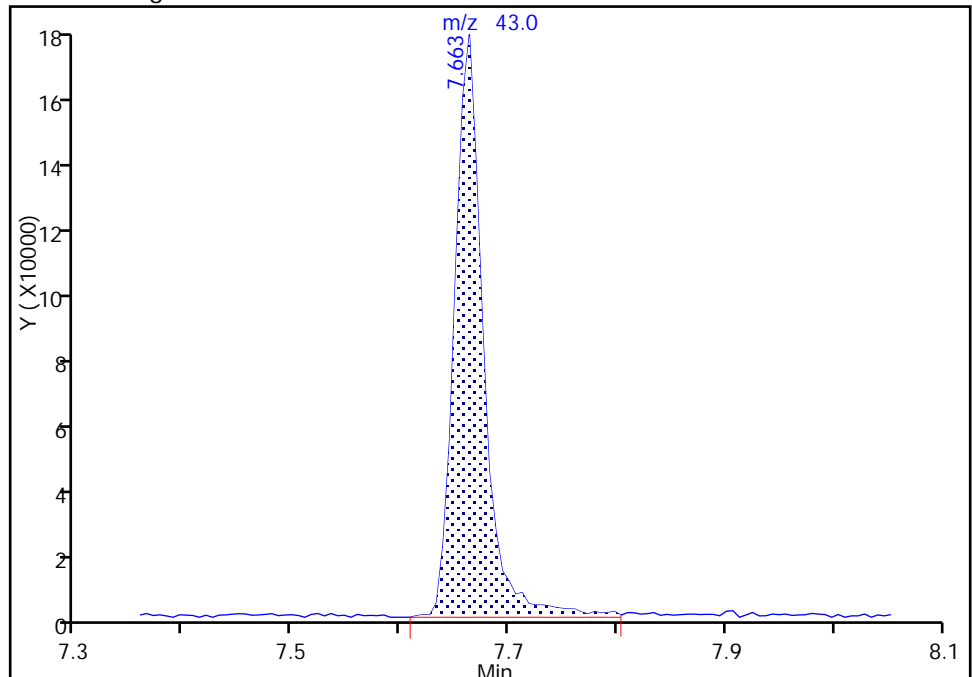
RT: 7.66
Area: 316529
Amount: 24.973628
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 330753
Amount: 25.834452
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:08:01
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5949.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 28-Dec-2017 17:34:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0068271-010
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:32:52 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: sonkera

Date: 02-Jan-2018 22:41:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	172857	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	653645	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	349145	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	224152	25.0	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.114	0.006	0	310265	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	820212	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.641	0.000	91	277557	25.0	25.1	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	97	86528	10.0	10.4	
13 Chloromethane	50	1.507	1.507	0.000	100	193853	10.0	10.0	
14 Vinyl chloride	62	1.592	1.592	0.000	98	133397	10.0	10.4	
144 Butadiene	54	1.628	1.622	0.006	97	156242	10.0	10.6	M
15 Bromomethane	94	1.908	1.908	0.000	91	65915	10.0	9.97	
16 Chloroethane	64	1.999	1.993	0.006	95	77972	10.0	10.4	
17 Dichlorofluoromethane	67	2.206	2.200	0.006	95	159967	10.0	9.33	
18 Trichlorofluoromethane	101	2.188	2.206	-0.018	86	135206	10.0	10.4	
19 Ethyl ether	59	2.480	2.480	0.000	93	108523	10.0	9.49	
20 Acrolein	56	2.632	2.632	0.000	99	144121	50.0	48.7	
22 1,1-Dichloroethene	96	2.687	2.681	0.006	91	59833	10.0	8.78	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.717	0.000	76	58527	10.0	9.10	M
23 Acetone	43	2.784	2.784	0.000	97	185430	50.0	47.6	
24 Iodomethane	142	2.833	2.833	0.000	99	127750	10.0	9.33	
25 Carbon disulfide	76	2.881	2.876	0.005	97	208338	10.0	8.91	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	86	220076	10.0	9.17	
28 Methyl acetate	43	3.082	3.082	0.000	100	283648	20.0	19.9	
30 Methylene Chloride	84	3.173	3.174	-0.001	90	87375	10.0	9.44	M
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	98	84805	100.0	98.1	M
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	92	75378	10.0	9.33	
32 Methyl tert-butyl ether	73	3.399	3.411	-0.012	95	274891	10.0	9.80	
34 Acrylonitrile	53	3.435	3.435	0.000	97	672390	100.0	99.6	M
35 Hexane	57	3.624	3.624	0.000	96	150023	10.0	8.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	165334	10.0	9.02	
39 Vinyl acetate	43	3.867	3.867	0.000	96	712100	20.0	19.6	
42 2,2-Dichloropropane	77	4.335	4.330	0.005	84	103685	10.0	9.06	
43 cis-1,2-Dichloroethene	96	4.354	4.360	-0.006	88	85719	10.0	9.13	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	395607	50.0	47.5	M
47 Chlorobromomethane	128	4.585	4.585	0.000	89	46882	10.0	9.59	
49 Tetrahydrofuran	42	4.621	4.622	-0.001	93	114616	20.0	19.6	
50 Chloroform	83	4.664	4.664	0.000	95	140695	10.0	9.15	
51 1,1,1-Trichloroethane	97	4.792	4.786	0.006	96	114614	10.0	9.03	
52 Cyclohexane	56	4.816	4.816	0.000	72	183567	10.0	9.17	
53 Carbon tetrachloride	117	4.938	4.944	-0.006	93	100258	10.0	9.23	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	84	95902	10.0	8.84	
56 Isobutyl alcohol	43	5.132	5.139	-0.007	64	165207	250.0	253.7	
55 Benzene	78	5.138	5.145	-0.007	94	309088	10.0	9.46	
57 1,2-Dichloroethane	62	5.193	5.187	0.006	96	155226	10.0	9.55	
59 n-Heptane	43	5.351	5.352	-0.001	96	183723	10.0	8.91	
60 Trichloroethene	95	5.747	5.747	0.000	94	77927	10.0	8.99	
62 Methylcyclohexane	83	5.893	5.887	0.006	95	127436	10.0	9.10	
63 1,2-Dichloropropane	63	5.978	5.972	0.006	87	98627	10.0	9.72	
64 Dibromomethane	93	6.106	6.100	0.006	93	55441	10.0	9.63	M
66 1,4-Dioxane	88	6.118	6.124	-0.006	83	13070	200.0	179.2	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	108965	10.0	9.42	
69 2-Chloroethyl vinyl ether	63	6.544	6.538	0.006	87	71230	10.0	9.79	
71 cis-1,3-Dichloropropene	75	6.678	6.684	-0.006	83	124556	10.0	9.53	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	296902	50.0	48.9	
73 Toluene	92	6.982	6.982	0.000	96	192391	10.0	8.95	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	89	115171	10.0	9.30	
77 Ethyl methacrylate	69	7.304	7.304	0.000	88	110797	10.0	9.61	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	59627	10.0	9.21	
79 Tetrachloroethene	166	7.517	7.517	0.000	96	83241	10.0	8.89	
80 1,3-Dichloropropane	76	7.584	7.590	-0.006	88	120433	10.0	9.31	
82 2-Hexanone	43	7.663	7.663	0.000	98	641625	50.0	49.1	M
83 Chlorodibromomethane	129	7.827	7.822	0.005	89	85827	10.0	9.46	
84 Ethylene Dibromide	107	7.925	7.931	-0.006	97	79682	10.0	9.50	
85 Chlorobenzene	112	8.417	8.424	-0.007	94	228552	10.0	9.12	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	90	87999	10.0	9.54	
88 Ethylbenzene	91	8.521	8.521	0.000	98	372231	10.0	9.11	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	143336	10.0	8.89	
91 o-Xylene	106	9.068	9.069	-0.001	97	150219	10.0	9.31	
92 Styrene	104	9.093	9.093	0.000	93	257914	10.0	9.68	
93 Bromoform	173	9.324	9.324	0.000	96	61977	10.0	9.52	
95 Isopropylbenzene	105	9.458	9.458	0.000	97	376196	10.0	9.14	
97 Bromobenzene	156	9.792	9.787	0.006	89	98132	10.0	9.09	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	113242	10.0	9.88	M
99 1,2,3-Trichloropropane	110	9.859	9.866	-0.007	88	36531	10.0	10.1	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.884	-0.006	59	52354	10.0	9.58	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	435573	10.0	9.12	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	92309	10.0	9.13	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	323792	10.0	9.38	
105 4-Chlorotoluene	91	10.090	10.091	-0.001	98	321497	10.0	9.51	
106 tert-Butylbenzene	134	10.389	10.383	0.006	95	72745	10.0	9.25	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	332583	10.0	9.27	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.596	-0.001	95	388813	10.0	8.98	
110 1,3-Dichlorobenzene	146	10.717	10.717	0.000	97	190483	10.0	9.31	
111 4-Isopropyltoluene	119	10.735	10.742	-0.007	97	347525	10.0	9.14	
113 1,4-Dichlorobenzene	146	10.808	10.809	-0.001	94	197448	10.0	9.31	
115 n-Butylbenzene	91	11.125	11.125	0.000	97	308590	10.0	9.51	
116 1,2-Dichlorobenzene	146	11.155	11.161	-0.006	96	189078	10.0	9.46	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	81	19039	10.0	8.63	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	118604	10.0	9.36	
120 Hexachlorobutadiene	225	12.700	12.694	0.006	95	54361	10.0	9.33	
121 Naphthalene	128	12.779	12.780	-0.001	97	348407	10.0	9.36	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	95	103808	10.0	9.40	
S 125 Total BTEX	1				0			45.7	
S 126 Xylenes, Total	1				0			18.2	
S 123 1,3-Dichloropropene, Total	1				0			18.8	
S 124 1,2-Dichloroethene, Total	1				0			18.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 5.00

Units: uL

GAS CORP mix_00257

Amount Added: 5.00

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5949.D

Injection Date: 28-Dec-2017 17:34:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC 4

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

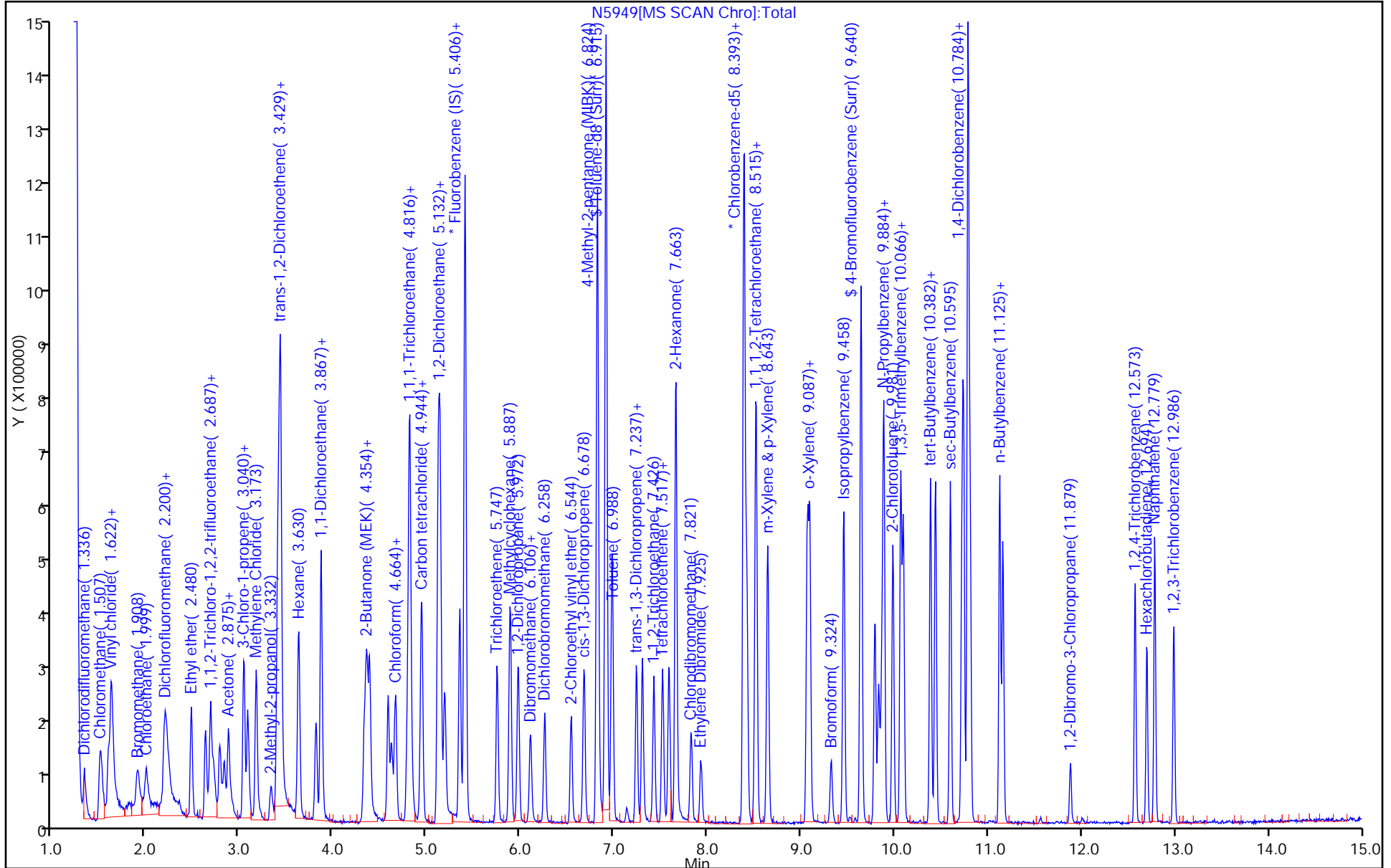
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

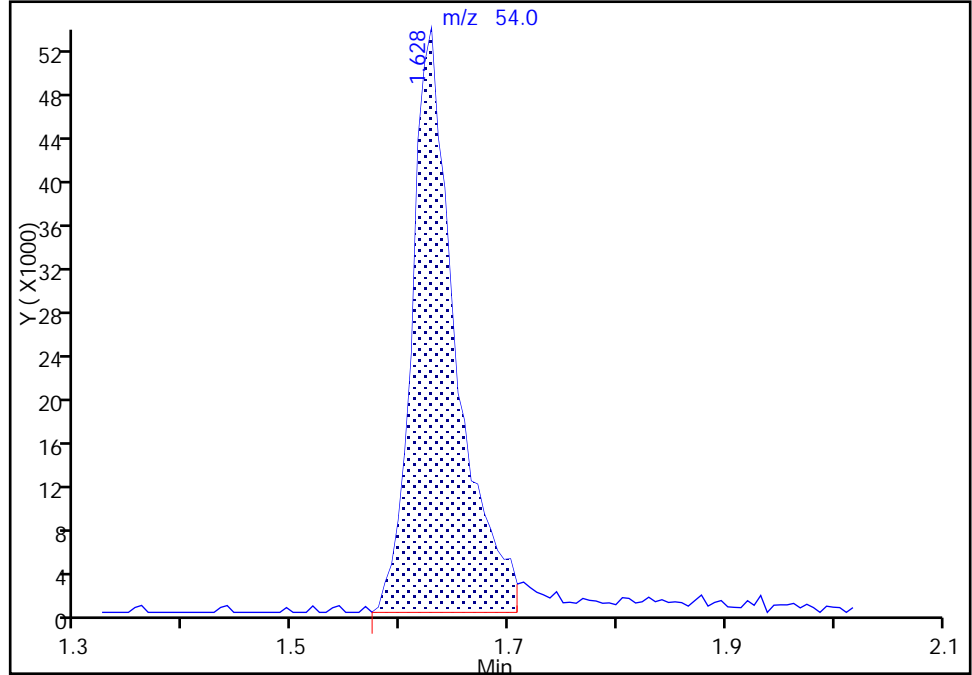
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

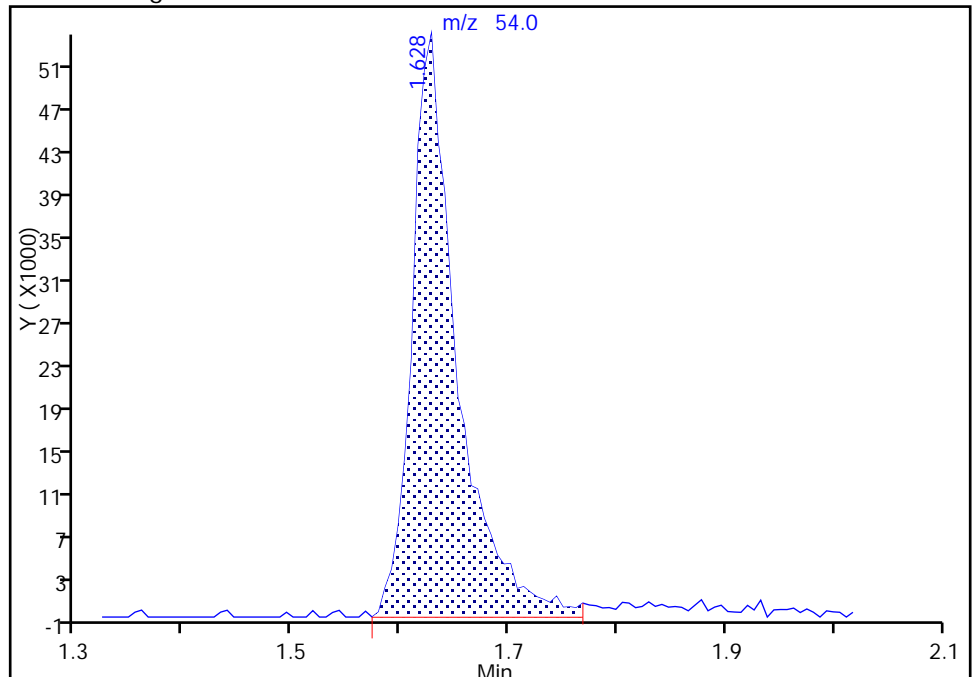
RT: 1.63
Area: 150288
Amount: 10.332950
Amount Units: ug/L

Processing Integration Results



RT: 1.63
Area: 156242
Amount: 10.556796
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:40:53
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

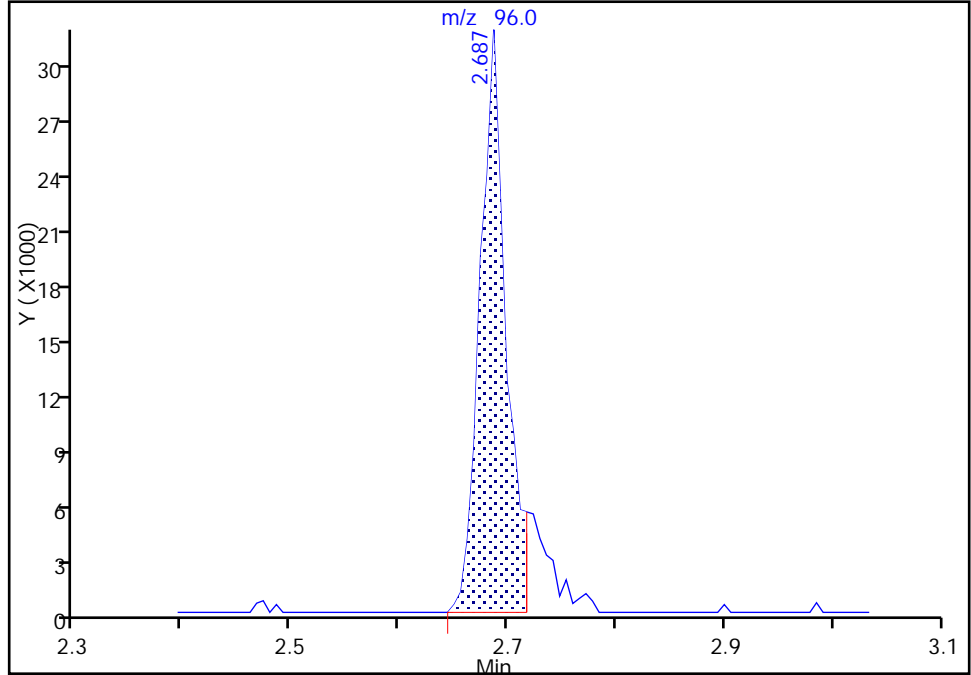
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5949.D
Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

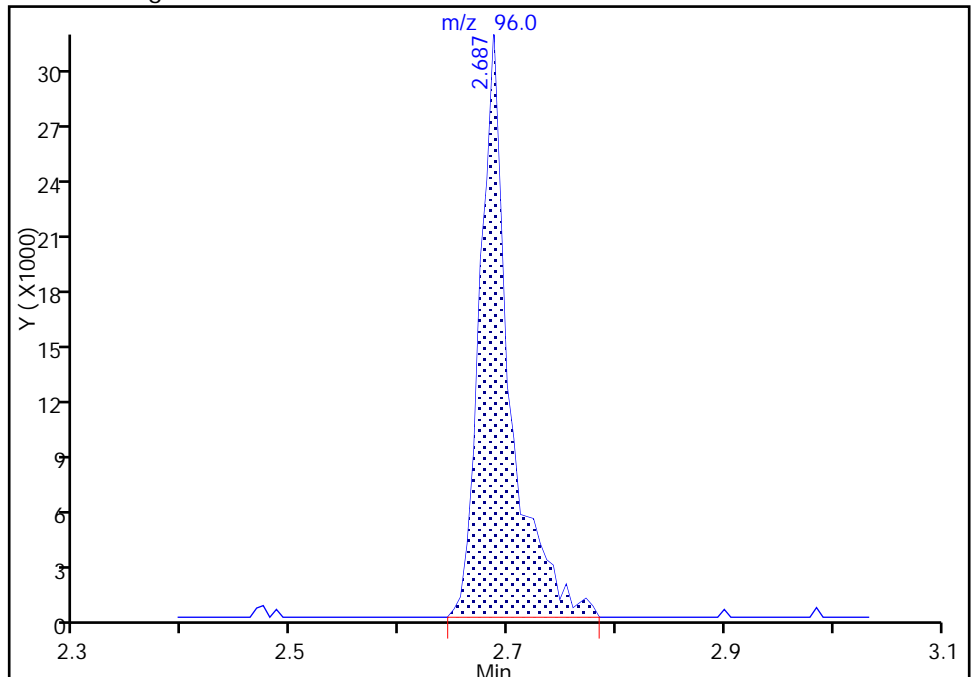
RT: 2.69
Area: 52338
Amount: 7.910109
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 59833
Amount: 8.783347
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:41:21
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

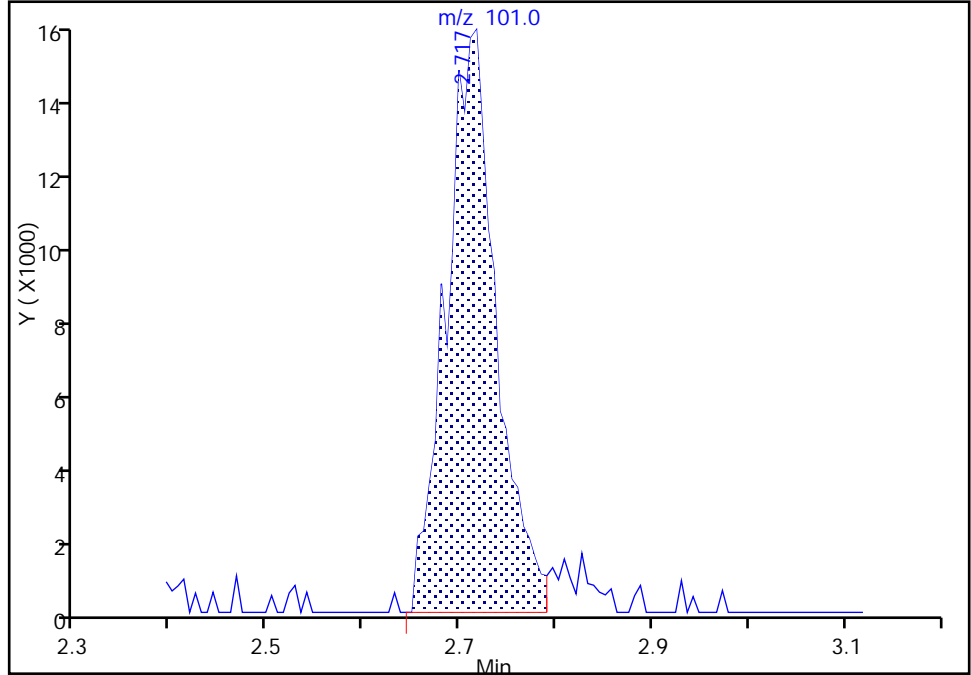
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

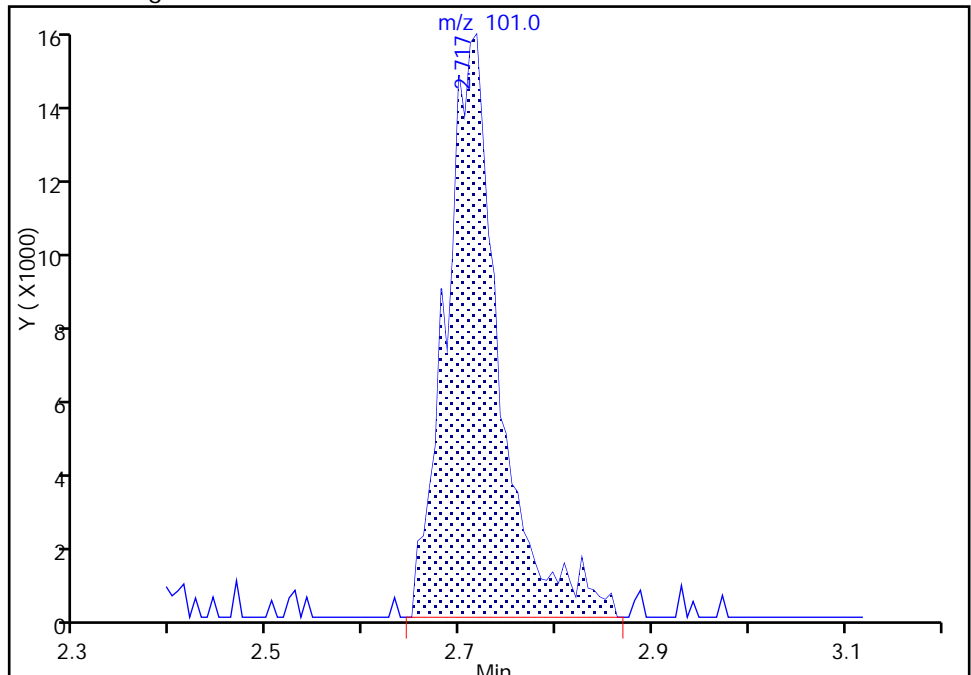
RT: 2.72
Area: 55083
Amount: 8.167588
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 58527
Amount: 9.103207
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:42:25
Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

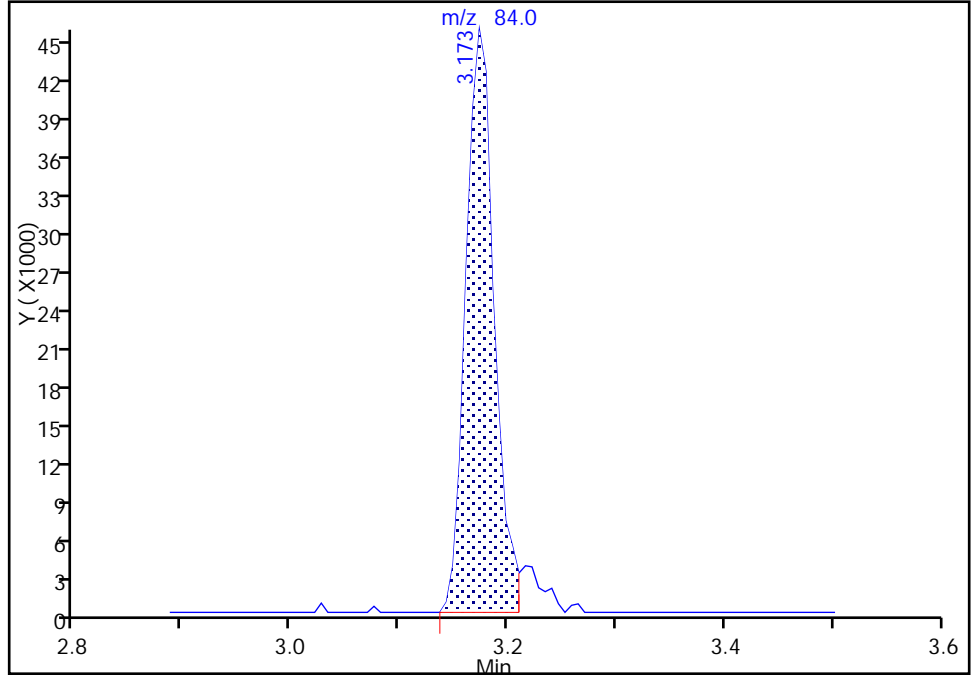
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

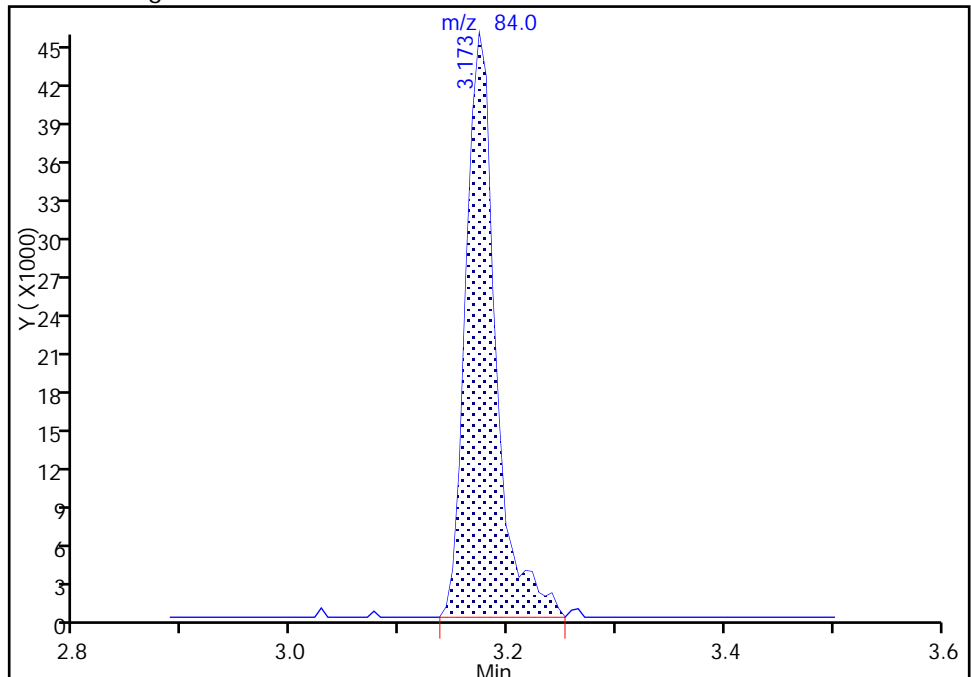
RT: 3.17
Area: 82533
Amount: 8.900431
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 87375
Amount: 9.439092
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:48:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

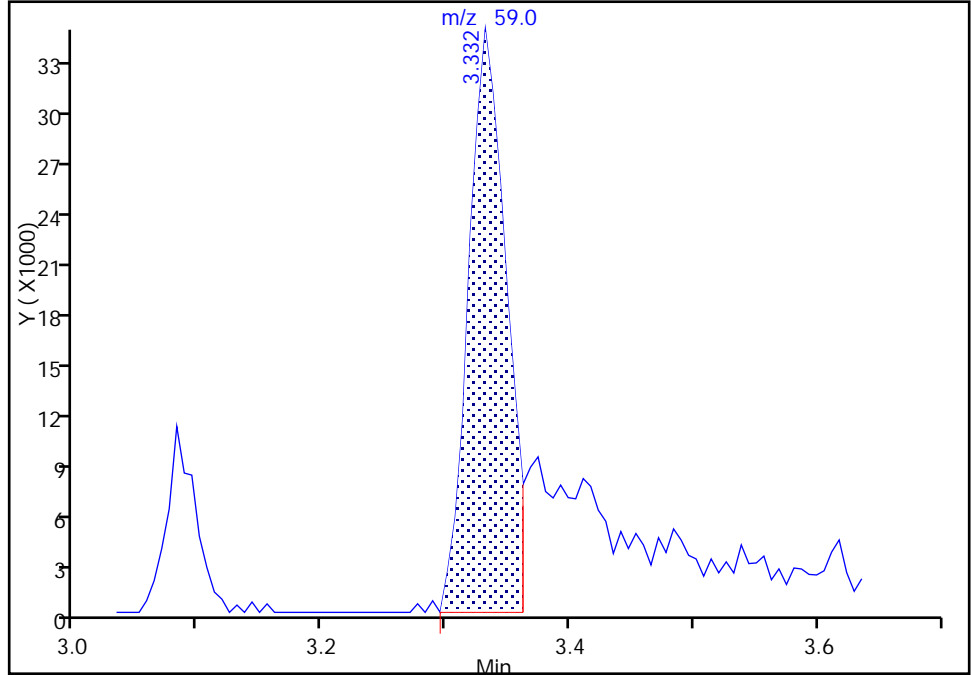
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

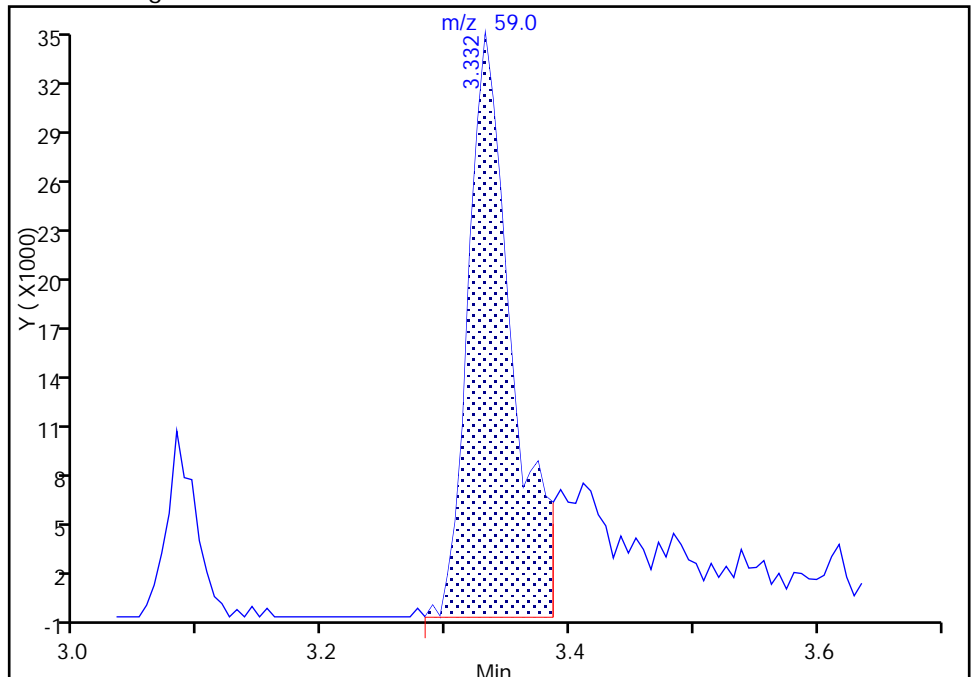
RT: 3.33
Area: 72868
Amount: 84.039351
Amount Units: ug/L

Processing Integration Results



RT: 3.33
Area: 84805
Amount: 98.143121
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:51:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

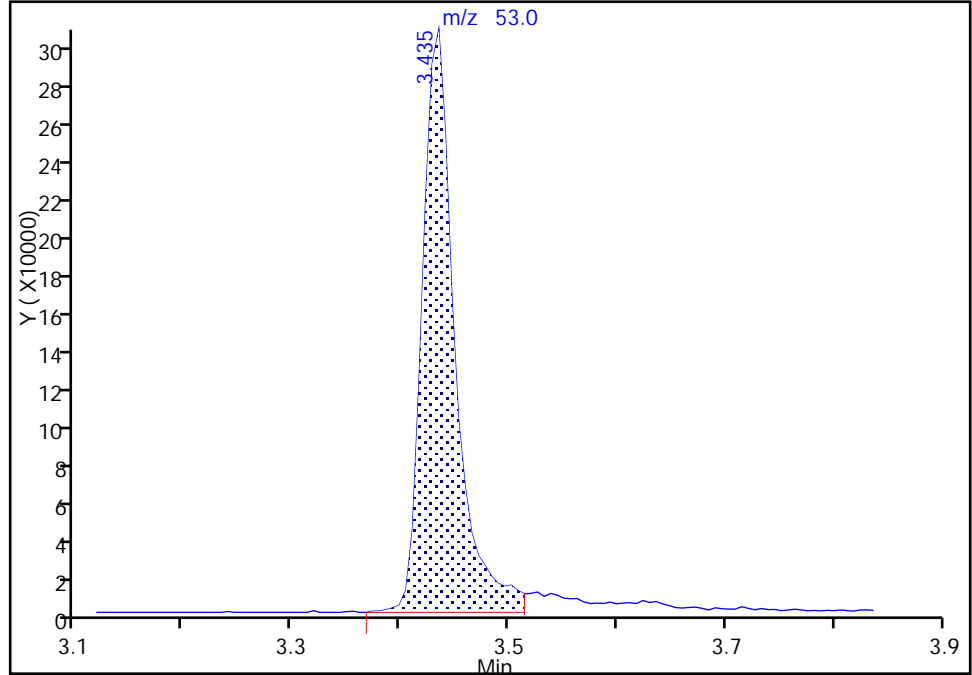
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

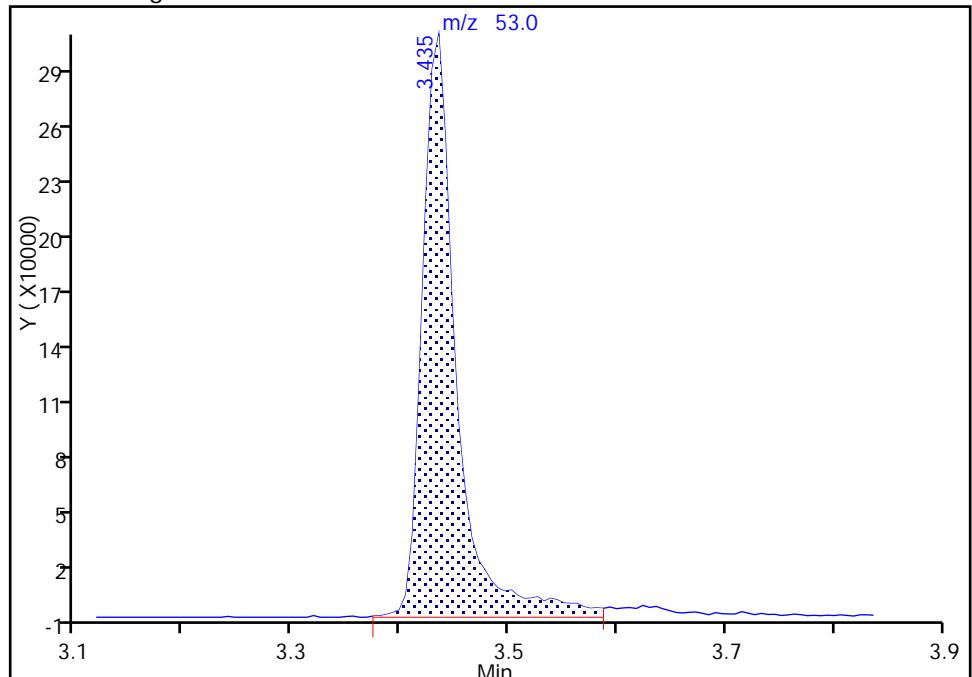
RT: 3.44
Area: 639784
Amount: 96.036866
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 672390
Amount: 99.648241
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:06:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

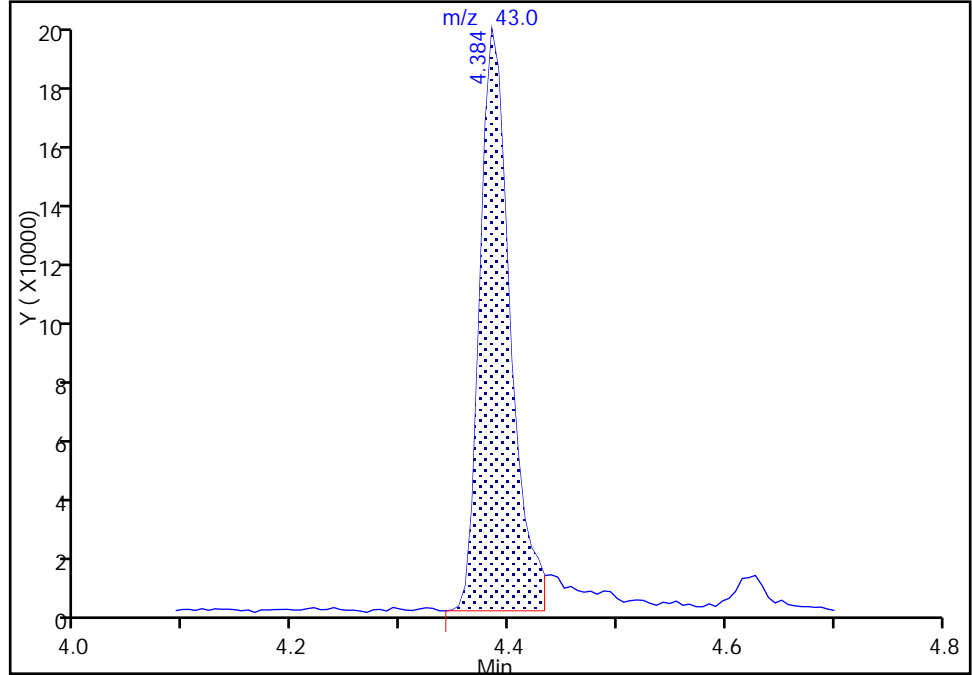
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

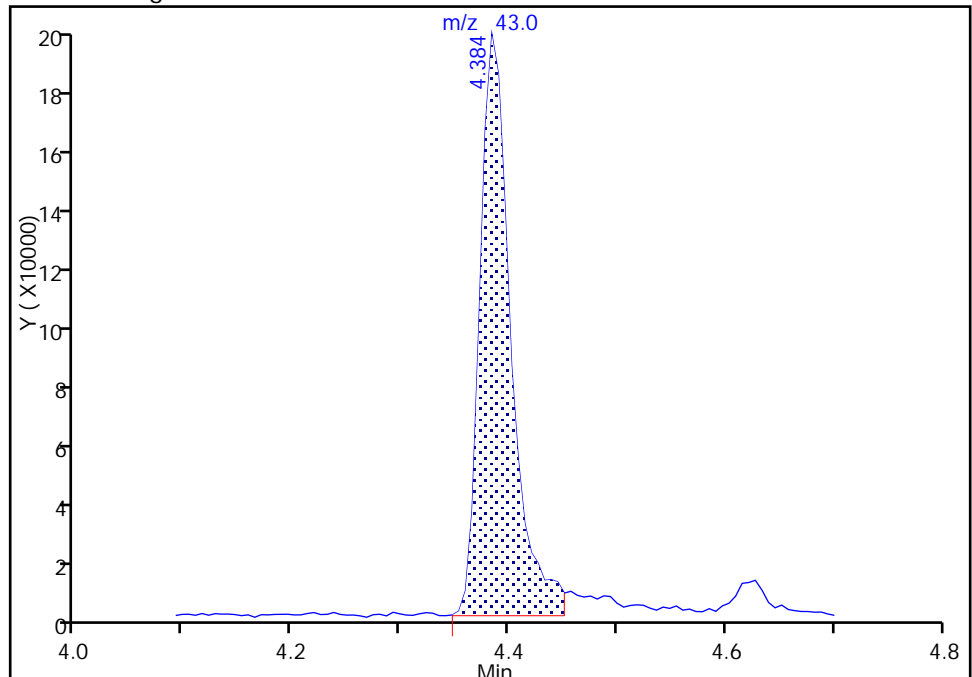
RT: 4.38
Area: 384032
Amount: 45.907431
Amount Units: ug/L

Processing Integration Results



RT: 4.38
Area: 395607
Amount: 47.451432
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:12:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

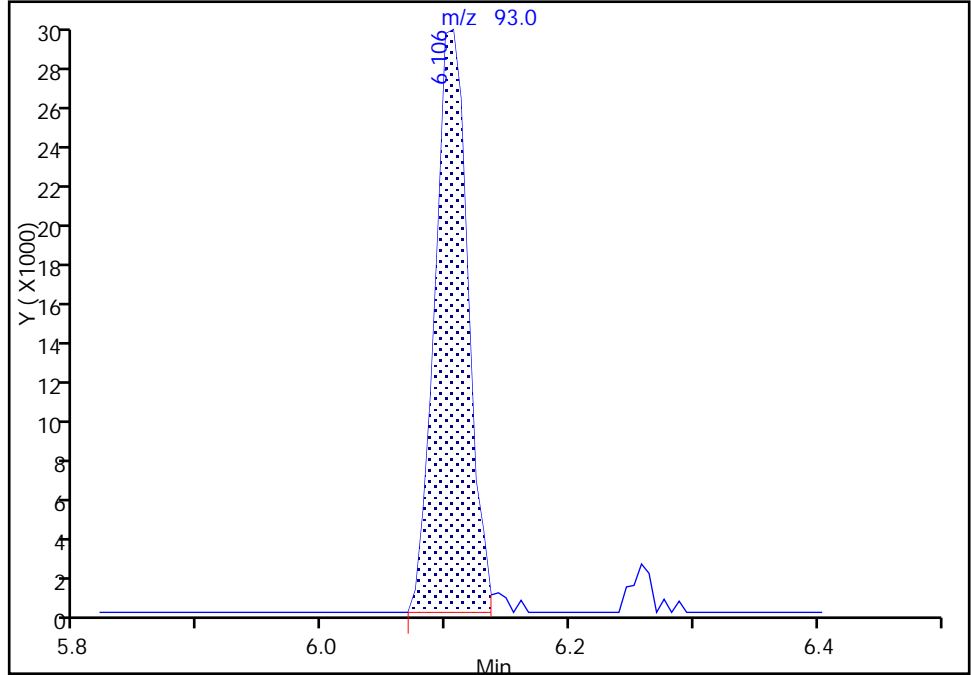
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

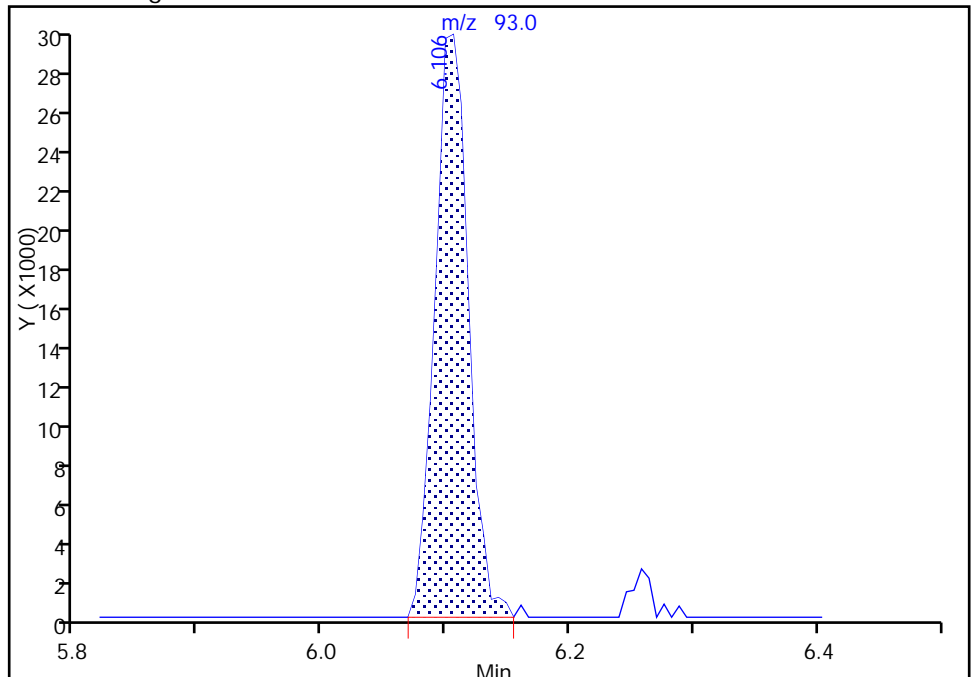
RT: 6.11
Area: 54807
Amount: 9.528454
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 55441
Amount: 9.625416
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:45:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

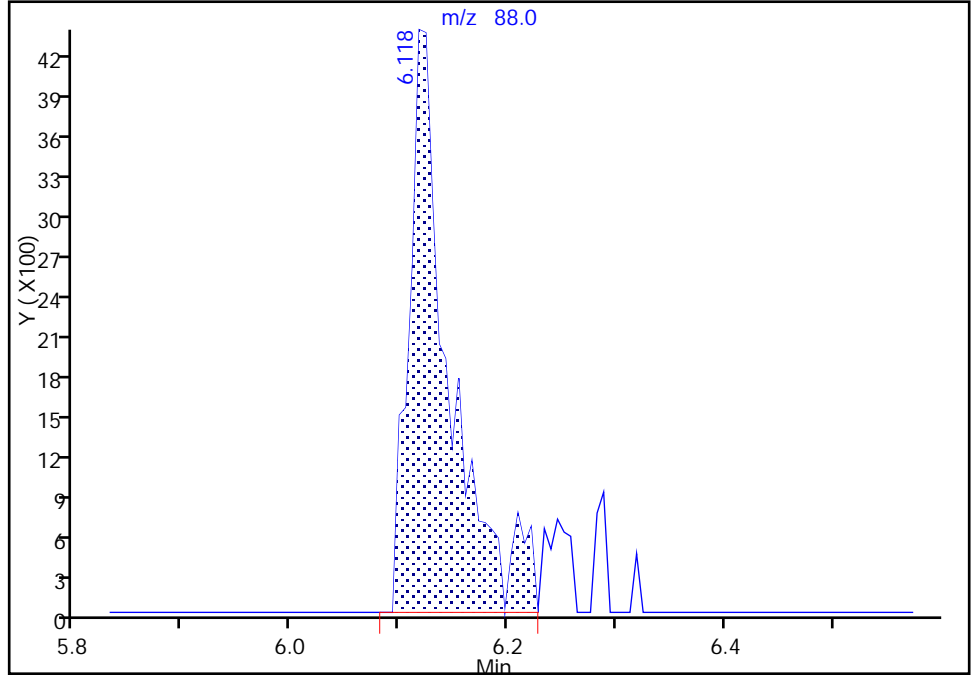
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

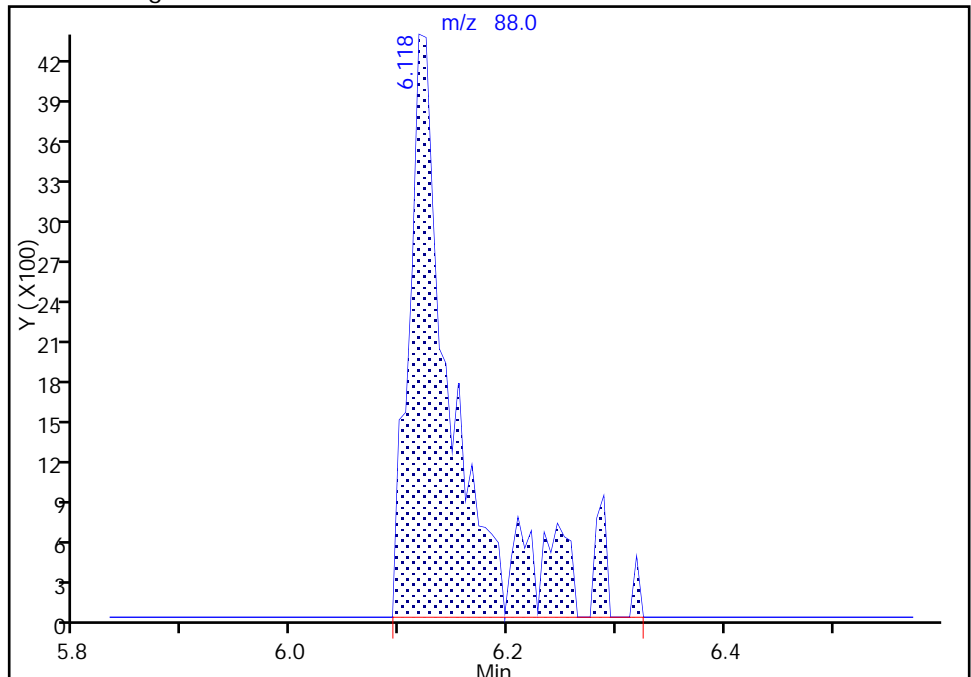
RT: 6.12
Area: 11243
Amount: 179.7999
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 13070
Amount: 179.2222
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:42:49
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

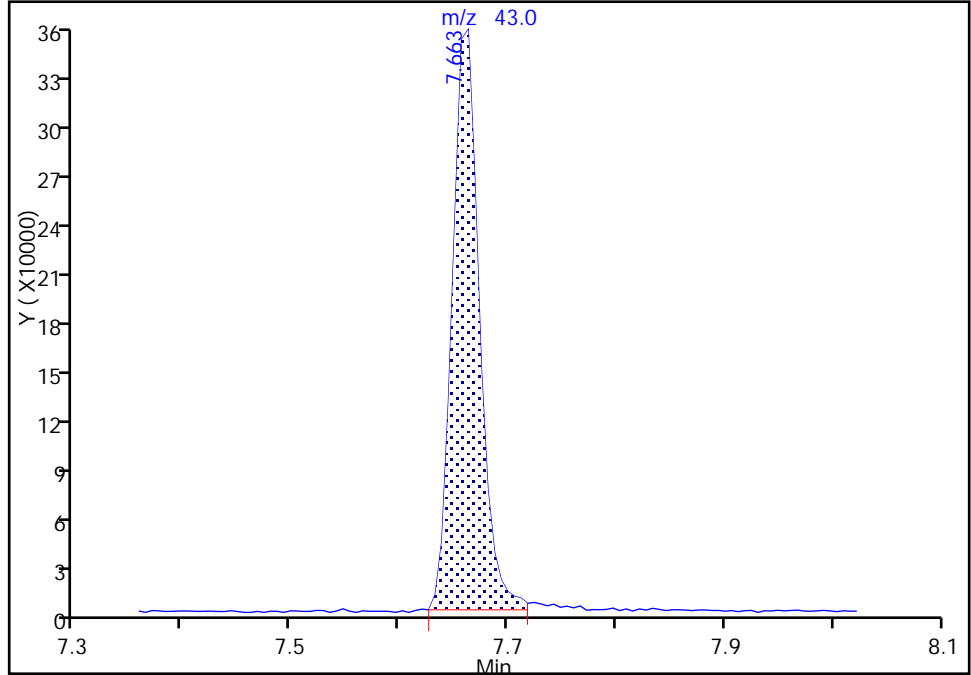
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Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

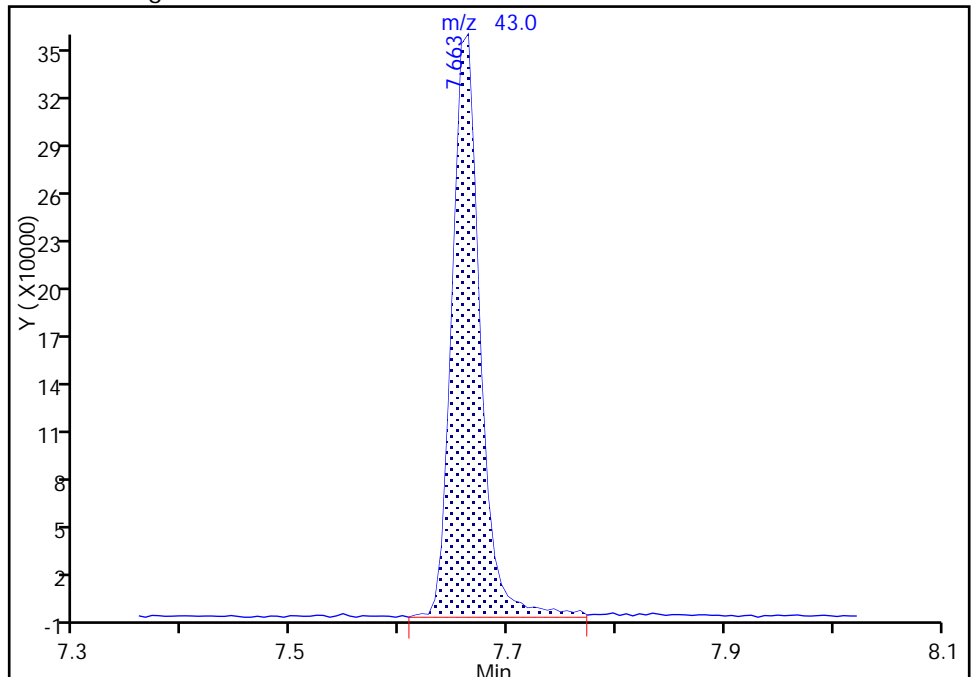
RT: 7.66
Area: 618287
Amount: 47.505680
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 641625
Amount: 49.078824
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 03-Jan-2018 00:08:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

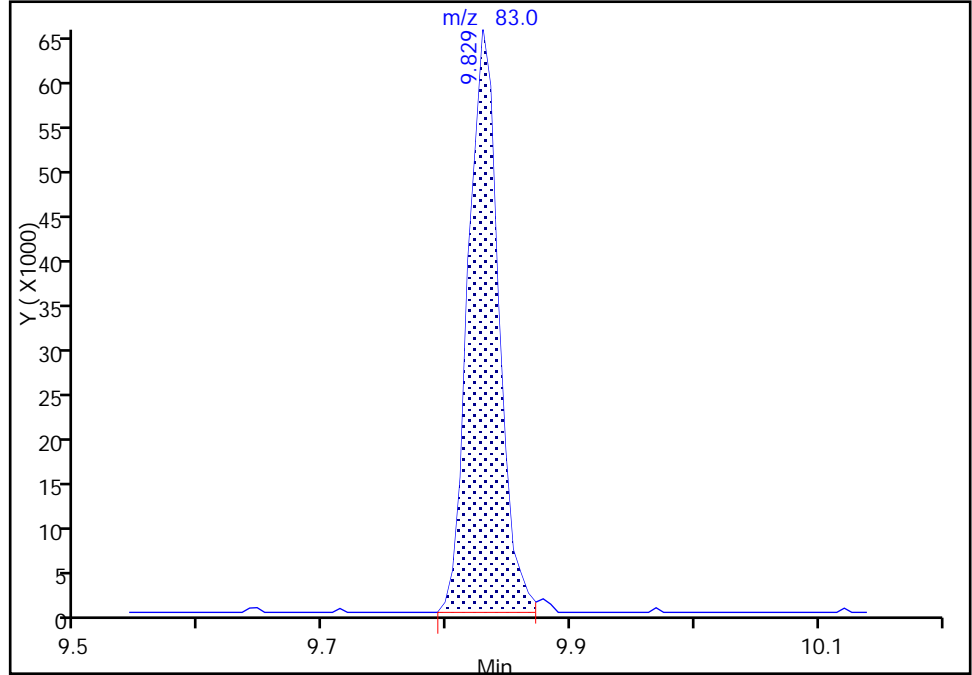
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Injection Date: 28-Dec-2017 17:34:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

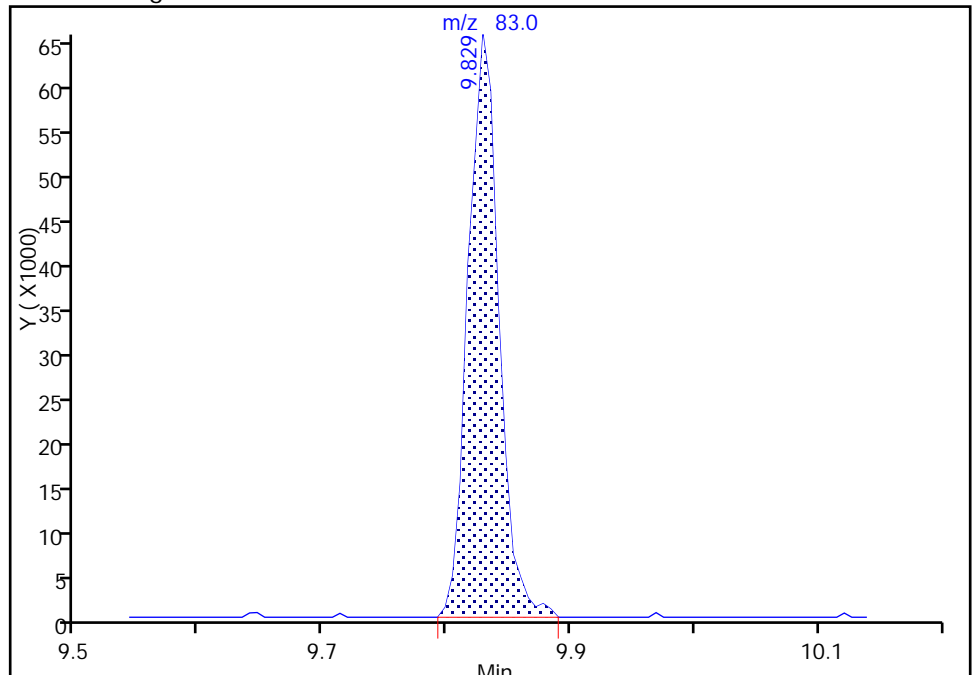
RT: 9.83
Area: 112344
Amount: 9.870735
Amount Units: ug/L

Processing Integration Results



RT: 9.83
Area: 113242
Amount: 9.884190
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:38:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5950.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 28-Dec-2017 18:01:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0068271-011
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:32:55 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: cwiklinc

Date: 29-Dec-2017 07:09:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	169856	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	662244	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	345492	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	225377	25.0	25.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	312535	25.0	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	829442	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	92	281886	25.0	25.1	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	191035	25.0	23.3	
13 Chloromethane	50	1.501	1.501	0.000	99	430463	25.0	22.7	
14 Vinyl chloride	62	1.592	1.592	0.000	98	286814	25.0	22.8	
144 Butadiene	54	1.622	1.622	0.000	97	313614	25.0	21.6	
15 Bromomethane	94	1.908	1.908	0.000	92	149125	25.0	22.9	
16 Chloroethane	64	1.993	1.993	0.000	96	167466	25.0	22.7	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	95	355807	25.0	21.1	
18 Trichlorofluoromethane	101	2.188	2.188	0.000	75	301901	25.0	23.5	
19 Ethyl ether	59	2.474	2.474	0.000	95	261767	25.0	23.3	
20 Acrolein	56	2.626	2.626	0.000	97	339662	125.0	116.8	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	91	154264	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.711	0.000	92	152921	25.0	24.2	
23 Acetone	43	2.784	2.784	0.000	97	442710	125.0	115.8	
24 Iodomethane	142	2.833	2.833	0.000	100	310234	25.0	23.1	
25 Carbon disulfide	76	2.875	2.875	0.000	98	532603	25.0	23.2	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	87	560640	25.0	23.8	
28 Methyl acetate	43	3.082	3.082	0.000	100	624677	50.0	44.5	
30 Methylene Chloride	84	3.174	3.174	0.000	89	189961	25.0	21.9	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	96	172878	250.0	203.6	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	95	640326	25.0	23.2	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	93	186534	25.0	23.5	
34 Acrylonitrile	53	3.429	3.429	0.000	98	1563412	250.0	235.8	
35 Hexane	57	3.624	3.624	0.000	96	399603	25.0	23.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	421986	25.0	23.4	
39 Vinyl acetate	43	3.867	3.867	0.000	96	1652271	50.0	46.3	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	85	255513	25.0	22.7	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	91	218423	25.0	23.7	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	948494	125.0	115.8	M
47 Chlorobromomethane	128	4.585	4.585	0.000	86	110244	25.0	22.9	
49 Tetrahydrofuran	42	4.615	4.615	0.000	93	259264	50.0	45.1	
50 Chloroform	83	4.664	4.664	0.000	95	334953	25.0	22.2	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	97	297688	25.0	23.9	
52 Cyclohexane	56	4.816	4.816	0.000	94	470077	25.0	23.9	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	84	254366	25.0	23.9	
53 Carbon tetrachloride	117	4.938	4.938	0.000	94	258731	25.0	24.2	
56 Isobutyl alcohol	43	5.132	5.132	0.000	95	350781	625.0	548.3	
55 Benzene	78	5.139	5.139	0.000	96	759375	25.0	23.6	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	96	355502	25.0	22.3	
59 n-Heptane	43	5.351	5.351	0.000	95	477270	25.0	23.6	
60 Trichloroethene	95	5.747	5.747	0.000	93	196287	25.0	23.0	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	328150	25.0	23.8	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	88	233718	25.0	23.4	
64 Dibromomethane	93	6.106	6.106	0.000	94	129920	25.0	23.0	
66 1,4-Dioxane	88	6.124	6.124	0.000	90	33269	500.0	431.9	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	264659	25.0	23.3	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	88	173112	25.0	24.2	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	83	306246	25.0	23.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	99	693823	125.0	112.8	
73 Toluene	92	6.976	6.976	0.000	97	498602	25.0	22.9	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	92	292969	25.0	23.4	
77 Ethyl methacrylate	69	7.304	7.304	0.000	89	267905	25.0	22.9	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	145503	25.0	22.2	
79 Tetrachloroethene	166	7.517	7.517	0.000	97	220021	25.0	23.2	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	88	291761	25.0	22.3	
82 2-Hexanone	43	7.657	7.657	0.000	98	1458346	125.0	110.1	
83 Chlorodibromomethane	129	7.821	7.821	0.000	89	211564	25.0	23.0	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	190187	25.0	22.4	
85 Chlorobenzene	112	8.418	8.418	0.000	93	571414	25.0	22.5	
89 1,1,1,2-Tetrachloroethane	131	8.509	8.509	0.000	93	207431	25.0	22.2	
88 Ethylbenzene	91	8.521	8.521	0.000	98	946973	25.0	22.9	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	369379	25.0	22.6	
91 o-Xylene	106	9.069	9.069	0.000	98	358698	25.0	21.9	
92 Styrene	104	9.093	9.093	0.000	94	637098	25.0	23.6	
93 Bromoform	173	9.318	9.318	0.000	95	142922	25.0	21.7	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	952786	25.0	23.4	
97 Bromobenzene	156	9.786	9.786	0.000	89	236488	25.0	22.1	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	95	257402	25.0	22.7	
99 1,2,3-Trichloropropane	110	9.865	9.865	0.000	93	85060	25.0	23.7	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	1100782	25.0	23.3	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	79	123376	25.0	22.8	
102 2-Chlorotoluene	126	9.981	9.981	0.000	95	227329	25.0	22.7	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	790947	25.0	23.1	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	765103	25.0	22.9	
106 tert-Butylbenzene	134	10.383	10.383	0.000	95	176942	25.0	22.7	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	840461	25.0	23.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	996765	25.0	23.3	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	470251	25.0	23.2	
111 4-Isopropyltoluene	119	10.735	10.735	0.000	98	888311	25.0	23.6	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	480829	25.0	22.9	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	750612	25.0	23.4	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	97	456808	25.0	23.1	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	79	49915	25.0	22.9	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	286018	25.0	22.8	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	96	132181	25.0	22.9	
121 Naphthalene	128	12.780	12.780	0.000	97	853586	25.0	23.2	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	248333	25.0	22.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 12.50

Units: uL

GAS CORP mix_00257

Amount Added: 12.50

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5950.D

Injection Date: 28-Dec-2017 18:01:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: ICIS 5

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

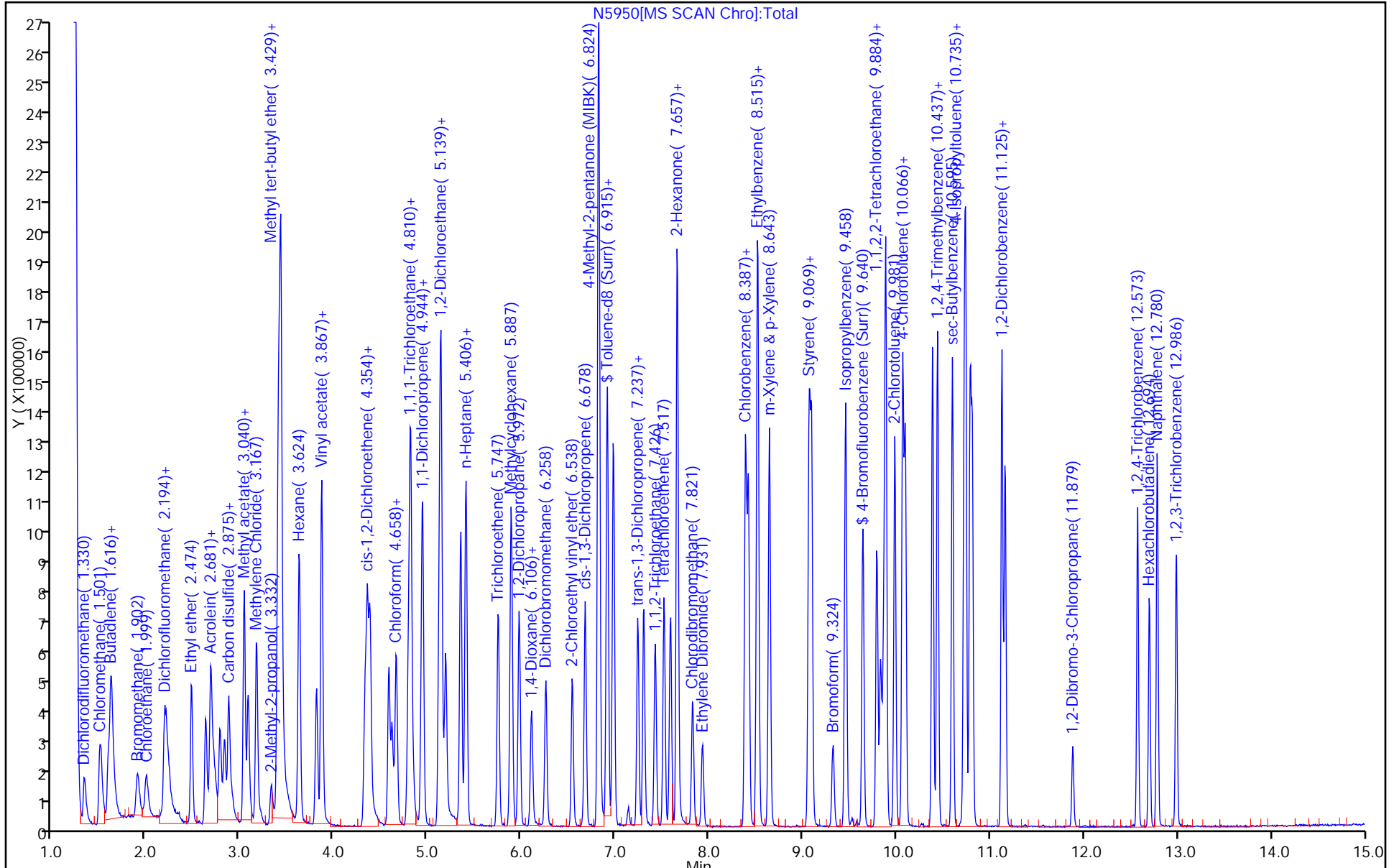
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

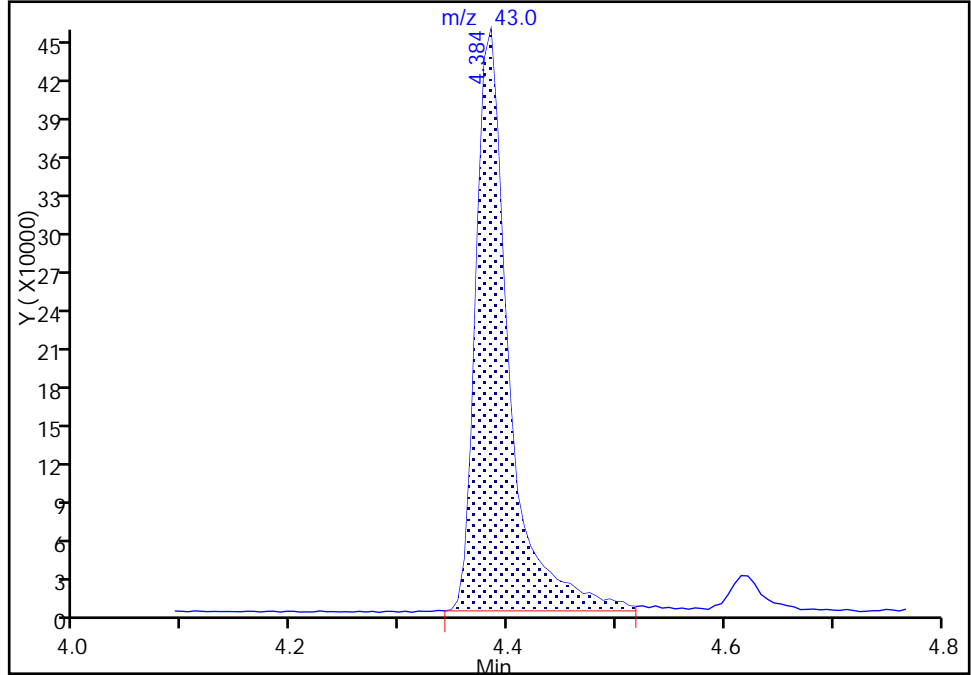
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5950.D
Injection Date: 28-Dec-2017 18:01:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

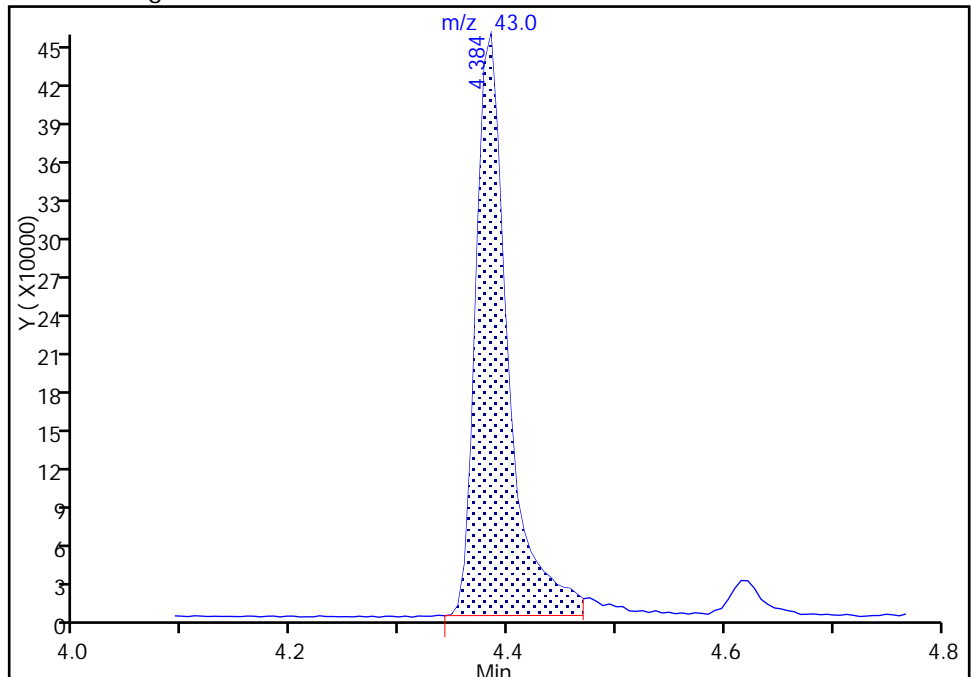
RT: 4.38
Area: 973304
Amount: 118.4477
Amount Units: ug/L

Processing Integration Results



RT: 4.38
Area: 948494
Amount: 115.7780
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 10:40:00
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5951.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 28-Dec-2017 18:28:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0068271-012
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:32:58 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: sonkera

Date: 02-Jan-2018 22:45:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	178494	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	90	657568	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	345093	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	89	225162	25.0	24.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.114	0.006	0	311020	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	821438	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	92	280811	25.0	25.2	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	471159	50.0	54.7	
13 Chloromethane	50	1.507	1.501	0.006	99	1012707	50.0	50.8	
14 Vinyl chloride	62	1.592	1.592	0.000	98	705011	50.0	53.4	
144 Butadiene	54	1.622	1.622	0.000	96	779490	50.0	51.0	
15 Bromomethane	94	1.902	1.908	-0.006	91	354003	50.0	51.8	
16 Chloroethane	64	1.999	1.993	0.006	96	402231	50.0	51.9	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	96	835765	50.0	47.2	
18 Trichlorofluoromethane	101	2.194	2.188	0.006	86	711601	50.0	52.8	
19 Ethyl ether	59	2.480	2.474	0.006	94	635210	50.0	53.8	
20 Acrolein	56	2.626	2.626	0.000	98	808683	250.0	264.6	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	91	390281	50.0	55.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.711	0.000	91	379694	50.0	57.2	
23 Acetone	43	2.778	2.784	-0.006	98	1062123	250.0	264.3	M
24 Iodomethane	142	2.833	2.833	0.000	99	782301	50.0	55.3	
25 Carbon disulfide	76	2.875	2.875	0.000	98	1364311	50.0	56.5	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	86	1393768	50.0	56.2	
28 Methyl acetate	43	3.082	3.082	0.000	100	1664359	100.0	112.9	
30 Methylene Chloride	84	3.173	3.174	-0.001	90	480712	50.0	54.0	
31 2-Methyl-2-propanol	59	3.326	3.332	-0.006	97	472836	500.0	529.9	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	91	463457	50.0	55.5	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	95	1571546	50.0	54.3	
34 Acrylonitrile	53	3.429	3.429	0.000	99	3822697	500.0	548.6	
35 Hexane	57	3.624	3.624	0.000	96	968980	50.0	55.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	1041950	50.0	55.0	
39 Vinyl acetate	43	3.867	3.867	0.000	96	3836081	100.0	102.3	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	84	630660	50.0	53.4	
43 cis-1,2-Dichloroethene	96	4.354	4.360	-0.006	86	528979	50.0	54.6	
44 2-Butanone (MEK)	43	4.378	4.384	-0.006	96	2240956	250.0	260.3	
47 Chlorobromomethane	128	4.585	4.585	0.000	86	276080	50.0	54.7	
49 Tetrahydrofuran	42	4.615	4.615	0.000	93	603072	100.0	99.8	
50 Chloroform	83	4.664	4.664	0.000	98	840296	50.0	52.9	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	97	731134	50.0	55.8	
52 Cyclohexane	56	4.816	4.816	0.000	96	1186063	50.0	57.4	
53 Carbon tetrachloride	117	4.932	4.938	-0.006	97	660569	50.0	58.9	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	84	623114	50.0	55.6	
56 Isobutyl alcohol	43	5.132	5.132	0.000	94	904547	1250.0	1345.4	
55 Benzene	78	5.138	5.139	-0.001	96	1861250	50.0	55.1	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	847432	50.0	50.5	
59 n-Heptane	43	5.351	5.351	0.000	96	1191460	50.0	56.0	
60 Trichloroethene	95	5.747	5.747	0.000	93	489994	50.0	54.7	
62 Methylcyclohexane	83	5.887	5.887	0.000	93	812373	50.0	56.2	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	89	564239	50.0	53.9	
64 Dibromomethane	93	6.106	6.106	0.000	93	319571	50.0	53.7	
66 1,4-Dioxane	88	6.112	6.124	-0.012	38	79134	1000.0	1017.7	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	96	670863	50.0	56.2	
69 2-Chloroethyl vinyl ether	63	6.538	6.544	-0.006	86	416596	50.0	55.5	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	84	753226	50.0	55.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.818	6.824	-0.006	98	1681243	250.0	275.4	
73 Toluene	92	6.982	6.976	0.006	97	1202444	50.0	55.6	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	90	711793	50.0	57.1	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	649989	50.0	56.1	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	352578	50.0	54.1	
79 Tetrachloroethene	166	7.517	7.517	0.000	96	543175	50.0	57.6	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	89	710973	50.0	54.6	
82 2-Hexanone	43	7.657	7.657	0.000	98	3447742	250.0	262.1	
83 Chlorodibromomethane	129	7.821	7.821	0.000	90	526772	50.0	57.7	
84 Ethylene Dibromide	107	7.931	7.931	0.000	99	465001	50.0	55.1	
85 Chlorobenzene	112	8.418	8.418	0.000	93	1399589	50.0	55.5	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.509	0.006	94	525920	50.0	56.7	
88 Ethylbenzene	91	8.521	8.521	0.000	98	2310170	50.0	56.2	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	883012	50.0	54.5	
91 o-Xylene	106	9.068	9.069	-0.001	96	893780	50.0	55.1	
92 Styrene	104	9.093	9.093	0.000	94	1528719	50.0	57.0	
93 Bromoform	173	9.324	9.318	0.006	97	371415	50.0	56.7	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	2387277	50.0	58.7	
97 Bromobenzene	156	9.786	9.786	0.000	88	595871	50.0	55.8	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	95	616317	50.0	54.4	
99 1,2,3-Trichloropropane	110	9.859	9.865	-0.006	92	197946	50.0	55.2	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	83	312808	50.0	57.9	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	2703618	50.0	57.3	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	568277	50.0	56.8	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	1959008	50.0	57.4	
105 4-Chlorotoluene	91	10.091	10.091	-0.001	98	1828684	50.0	54.7	
106 tert-Butylbenzene	134	10.383	10.383	-0.001	96	446366	50.0	57.4	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	1994385	50.0	56.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	2478607	50.0	57.9	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	1149012	50.0	56.8	
111 4-Isopropyltoluene	119	10.735	10.735	0.000	97	2130863	50.0	56.7	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	93	1131792	50.0	54.0	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	1846038	50.0	57.6	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	97	1098141	50.0	55.6	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	81	121847	50.0	55.9	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	687906	50.0	54.9	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	96	321492	50.0	55.8	
121 Naphthalene	128	12.779	12.780	-0.001	97	2084354	50.0	56.7	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	612077	50.0	56.1	
S 125 Total BTEX	1				0			276.5	
S 126 Xylenes, Total	1				0			109.5	
S 123 1,3-Dichloropropene, Total	1				0			113.0	
S 124 1,2-Dichloroethene, Total	1				0			110.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 25.00

Units: uL

GAS CORP mix_00257

Amount Added: 25.00

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5951.D

Injection Date: 28-Dec-2017 18:28:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC 6

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

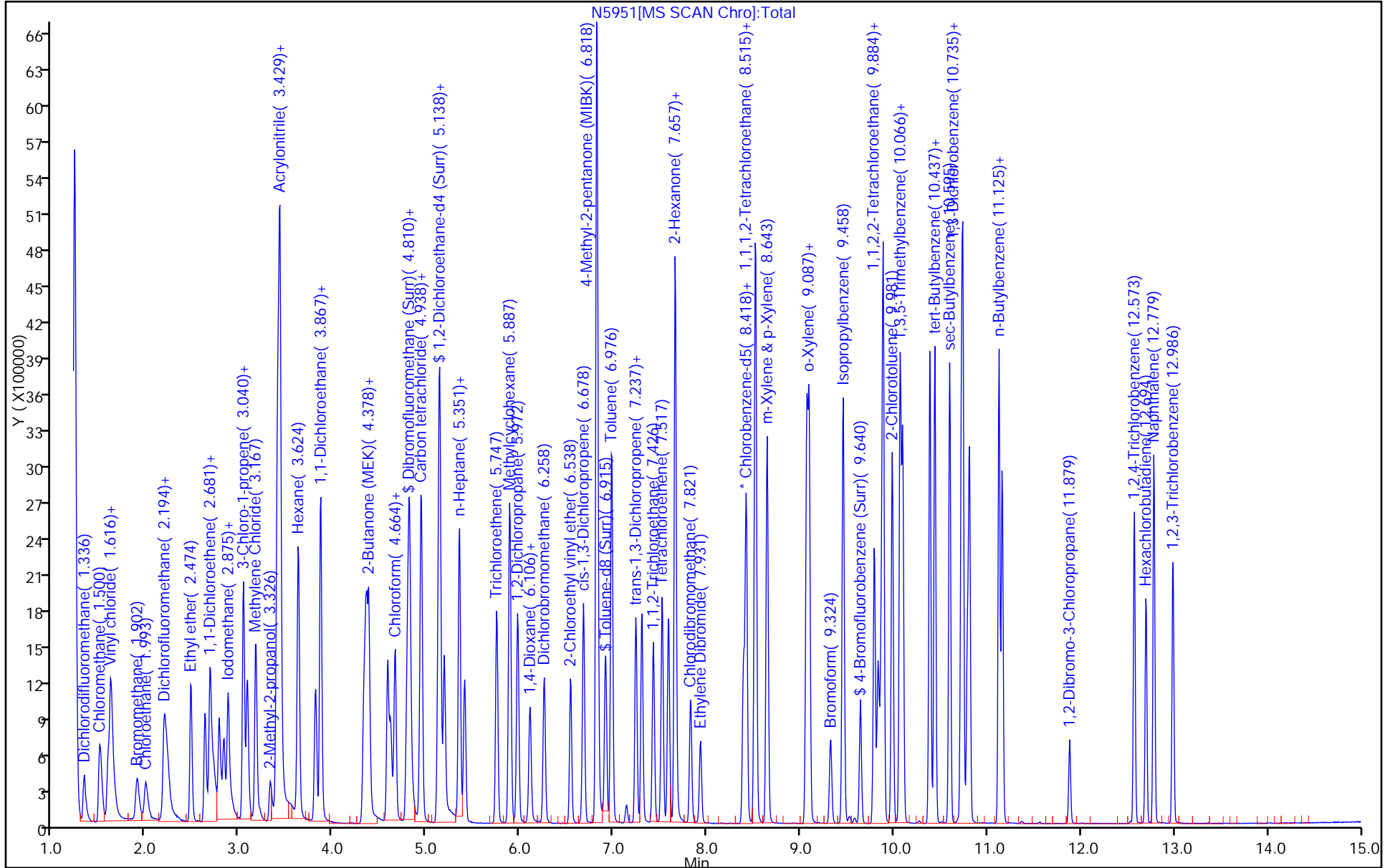
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

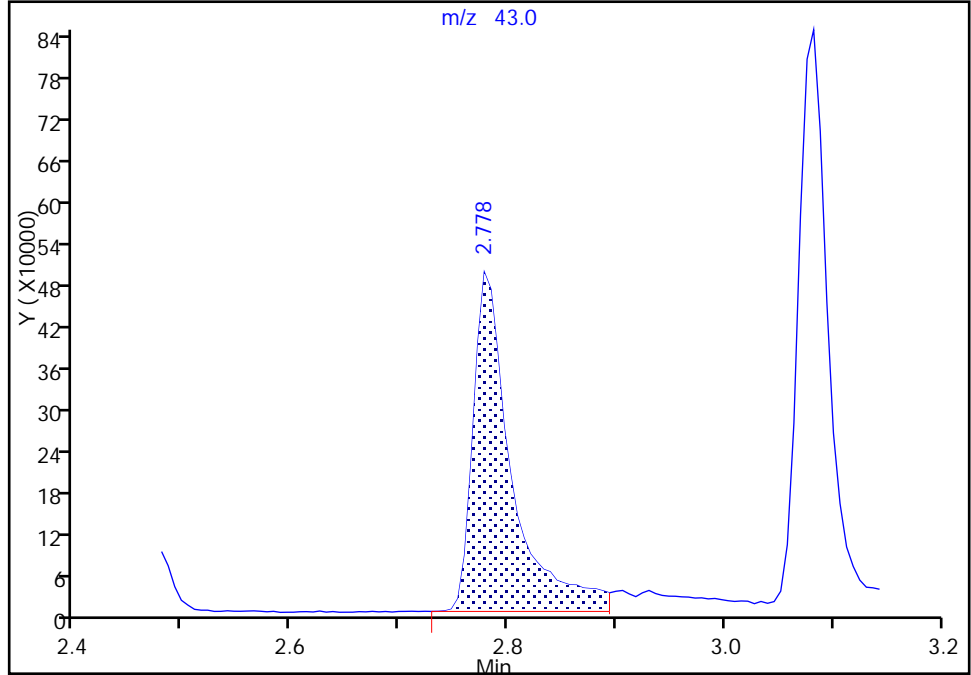
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Injection Date: 28-Dec-2017 18:28:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

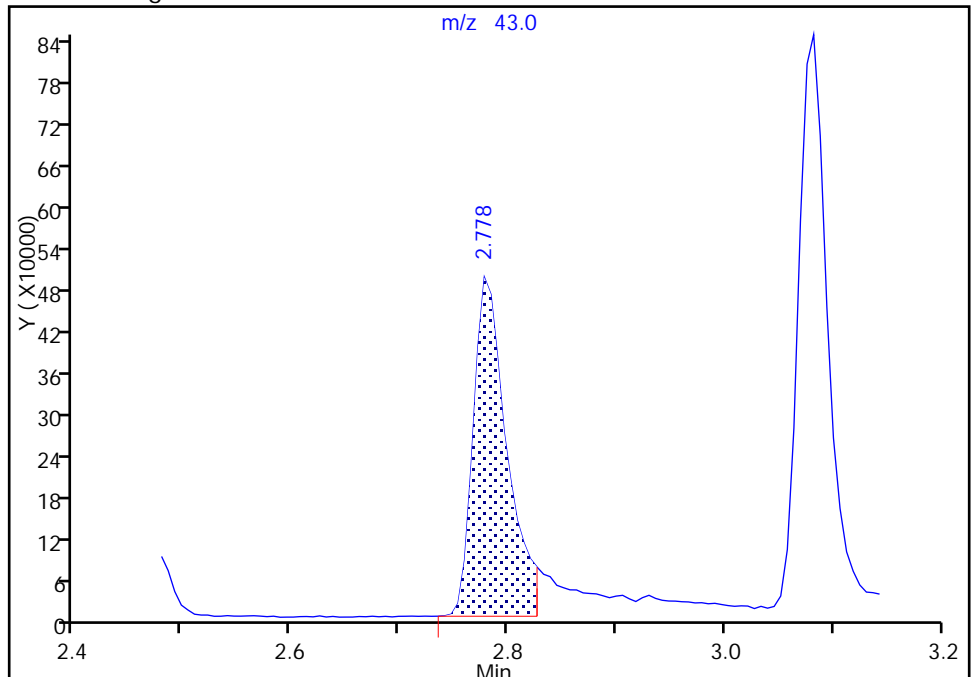
RT: 2.78
Area: 1222151
Amount: 273.1945
Amount Units: ug/L

Processing Integration Results



RT: 2.78
Area: 1062123
Amount: 264.2668
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:45:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

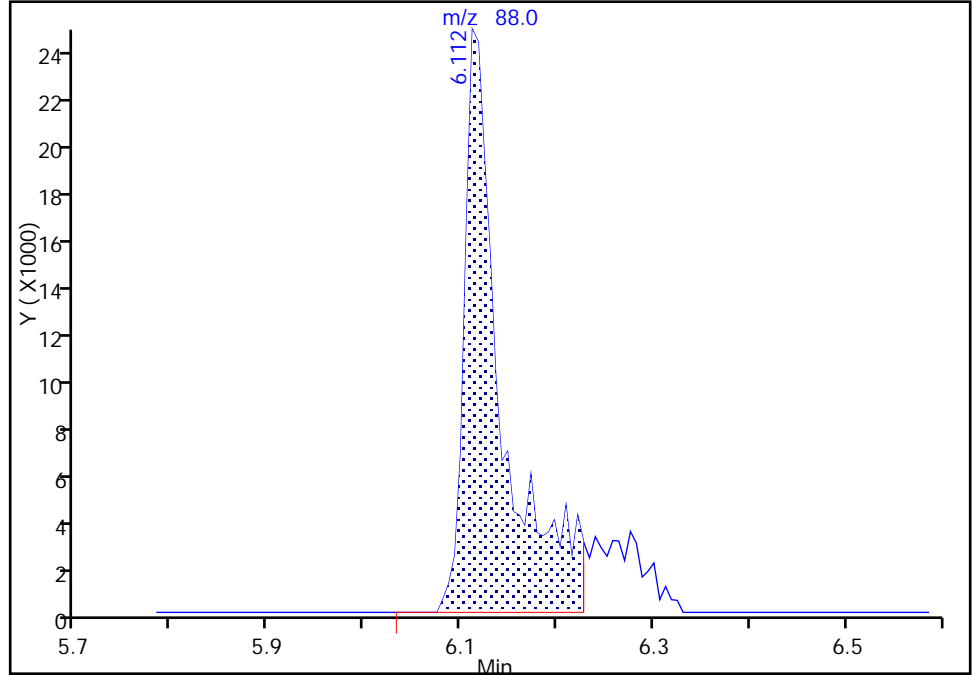
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Injection Date: 28-Dec-2017 18:28:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

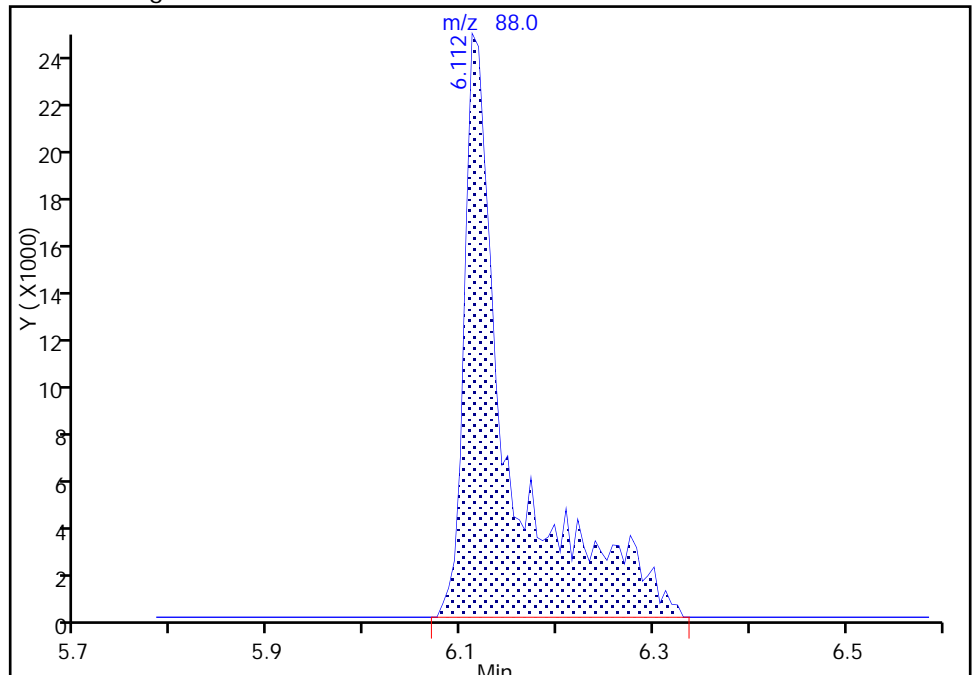
RT: 6.11
Area: 66924
Amount: 899.6762
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 79134
Amount: 1017.6578
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:45:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5952.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 28-Dec-2017 18:55:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0068271-013
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:33:01 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: sonkera

Date: 02-Jan-2018 22:45:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	183395	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	89	648866	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	322261	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	95	223094	25.0	23.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.114	0.006	0	304040	25.0	23.4	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	803723	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	91	271302	25.0	24.7	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	898754	100.0	101.6	
13 Chloromethane	50	1.507	1.501	0.006	100	1993226	100.0	97.3	
14 Vinyl chloride	62	1.592	1.592	0.000	98	1366409	100.0	100.8	
144 Butadiene	54	1.622	1.622	0.000	95	1599686	100.0	101.9	
15 Bromomethane	94	1.902	1.908	-0.006	92	686765	100.0	97.9	
16 Chloroethane	64	1.993	1.993	0.000	96	781619	100.0	98.1	
18 Trichlorofluoromethane	101	2.212	2.188	0.024	94	1394220	100.0	100.7	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	98	1600442	100.0	88.0	
19 Ethyl ether	59	2.480	2.474	0.006	96	1241668	100.0	102.4	
20 Acrolein	56	2.626	2.626	0.000	99	1621572	500.0	516.5	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	91	736784	100.0	101.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.711	-0.006	94	754926	100.0	110.7	
23 Acetone	43	2.778	2.784	-0.006	97	2044801	500.0	495.2	M
24 Iodomethane	142	2.833	2.833	0.000	99	1488838	100.0	102.5	
25 Carbon disulfide	76	2.875	2.875	0.000	98	2583607	100.0	104.1	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	87	2633188	100.0	103.4	
28 Methyl acetate	43	3.082	3.082	0.000	99	3051130	200.0	201.4	
30 Methylene Chloride	84	3.173	3.174	-0.001	90	902091	100.0	99.4	
31 2-Methyl-2-propanol	59	3.326	3.332	-0.006	97	965814	1000.0	1053.5	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	95	3067054	100.0	103.0	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	90	871718	100.0	101.7	
34 Acrylonitrile	53	3.429	3.429	0.000	98	7376317	1000.0	1030.4	M
35 Hexane	57	3.630	3.624	0.006	96	1826488	100.0	101.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	1957575	100.0	100.6	
39 Vinyl acetate	43	3.867	3.867	0.000	96	8159401	200.0	211.8	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	87	1215126	100.0	100.1	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	89	1019221	100.0	102.3	
44 2-Butanone (MEK)	43	4.378	4.384	-0.006	96	4513808	500.0	510.3	M
47 Chlorobromomethane	128	4.585	4.585	0.000	86	528503	100.0	101.9	
49 Tetrahydrofuran	42	4.615	4.615	0.000	92	1207575	200.0	194.5	
50 Chloroform	83	4.664	4.664	0.000	98	1595916	100.0	97.8	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	97	1392539	100.0	103.4	
52 Cyclohexane	56	4.816	4.816	0.000	94	2240864	100.0	105.5	
53 Carbon tetrachloride	117	4.938	4.938	0.000	95	1248453	100.0	108.3	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	87	1176853	100.0	102.2	
56 Isobutyl alcohol	43	5.126	5.132	-0.006	95	2132736	2500.0	3087.4	
55 Benzene	78	5.138	5.139	-0.001	96	3569088	100.0	102.9	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	1639510	100.0	95.1	
59 n-Heptane	43	5.351	5.351	0.000	96	2279778	100.0	104.2	
60 Trichloroethene	95	5.747	5.747	0.000	93	932791	100.0	101.4	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	1572191	100.0	105.8	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	90	1079942	100.0	100.3	
64 Dibromomethane	93	6.106	6.106	0.000	93	631615	100.0	103.4	
66 1,4-Dioxane	88	6.112	6.124	-0.012	88	159179	2000.0	2061.9	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	1275463	100.0	104.0	
69 2-Chloroethyl vinyl ether	63	6.538	6.544	-0.006	86	827783	100.0	107.3	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	84	1468310	100.0	105.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	97	3237849	500.0	537.4	
73 Toluene	92	6.982	6.976	0.006	97	2316810	100.0	108.5	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	92	1409241	100.0	114.7	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	1274441	100.0	111.4	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	691080	100.0	107.5	
79 Tetrachloroethene	166	7.517	7.517	0.000	97	1029394	100.0	110.7	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	89	1367271	100.0	106.4	
82 2-Hexanone	43	7.657	7.657	0.000	98	6539152	500.0	503.9	
83 Chlorodibromomethane	129	7.827	7.821	0.006	90	1058887	100.0	117.6	
84 Ethylene Dibromide	107	7.931	7.931	0.000	99	912153	100.0	109.6	
85 Chlorobenzene	112	8.418	8.418	0.000	93	2663675	100.0	107.1	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.509	0.006	94	1009275	100.0	110.3	
88 Ethylbenzene	91	8.521	8.521	0.000	98	4330393	100.0	106.8	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	1685221	100.0	105.3	
91 o-Xylene	106	9.068	9.069	-0.001	98	1698721	100.0	106.1	
92 Styrene	104	9.093	9.093	0.000	94	2937388	100.0	111.0	
93 Bromoform	173	9.324	9.318	0.006	97	721182	100.0	111.6	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	4415171	100.0	116.2	
97 Bromobenzene	156	9.792	9.786	0.006	88	1137645	100.0	114.1	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	1182286	100.0	111.8	
99 1,2,3-Trichloropropane	110	9.859	9.865	-0.006	93	368709	100.0	110.2	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	84	595923	100.0	118.1	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	4967495	100.0	112.6	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	1041798	100.0	111.6	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	3542976	100.0	111.1	
105 4-Chlorotoluene	91	10.091	10.091	-0.001	98	3384438	100.0	108.5	
106 tert-Butylbenzene	134	10.383	10.383	0.000	95	788984	100.0	108.7	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	3628548	100.0	109.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	4278376	100.0	107.1	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	99	2096241	100.0	111.0	
111 4-Isopropyltoluene	119	10.741	10.735	0.006	98	3632856	100.0	103.5	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	95	2125752	100.0	108.6	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	3118191	100.0	104.1	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	2024543	100.0	109.7	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	83	243621	100.0	119.7	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	1264185	100.0	108.1	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	97	522988	100.0	97.3	
121 Naphthalene	128	12.779	12.780	-0.001	97	4210155	100.0	122.5	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	1159878	100.0	113.7	
S 123 1,3-Dichloropropene, Total	1				0			220.6	
S 124 1,2-Dichloroethene, Total	1				0			204.0	
S 125 Total BTEX	1				0			529.6	
S 126 Xylenes, Total	1				0			211.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00114

Amount Added: 50.00

Units: uL

GAS CORP mix_00257

Amount Added: 50.00

Units: uL

N_8260_Surr_00305

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00094

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5952.D

Injection Date: 28-Dec-2017 18:55:30

Instrument ID: HP5973N

Operator ID: AM/LH/MS

Lims ID: IC 7

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

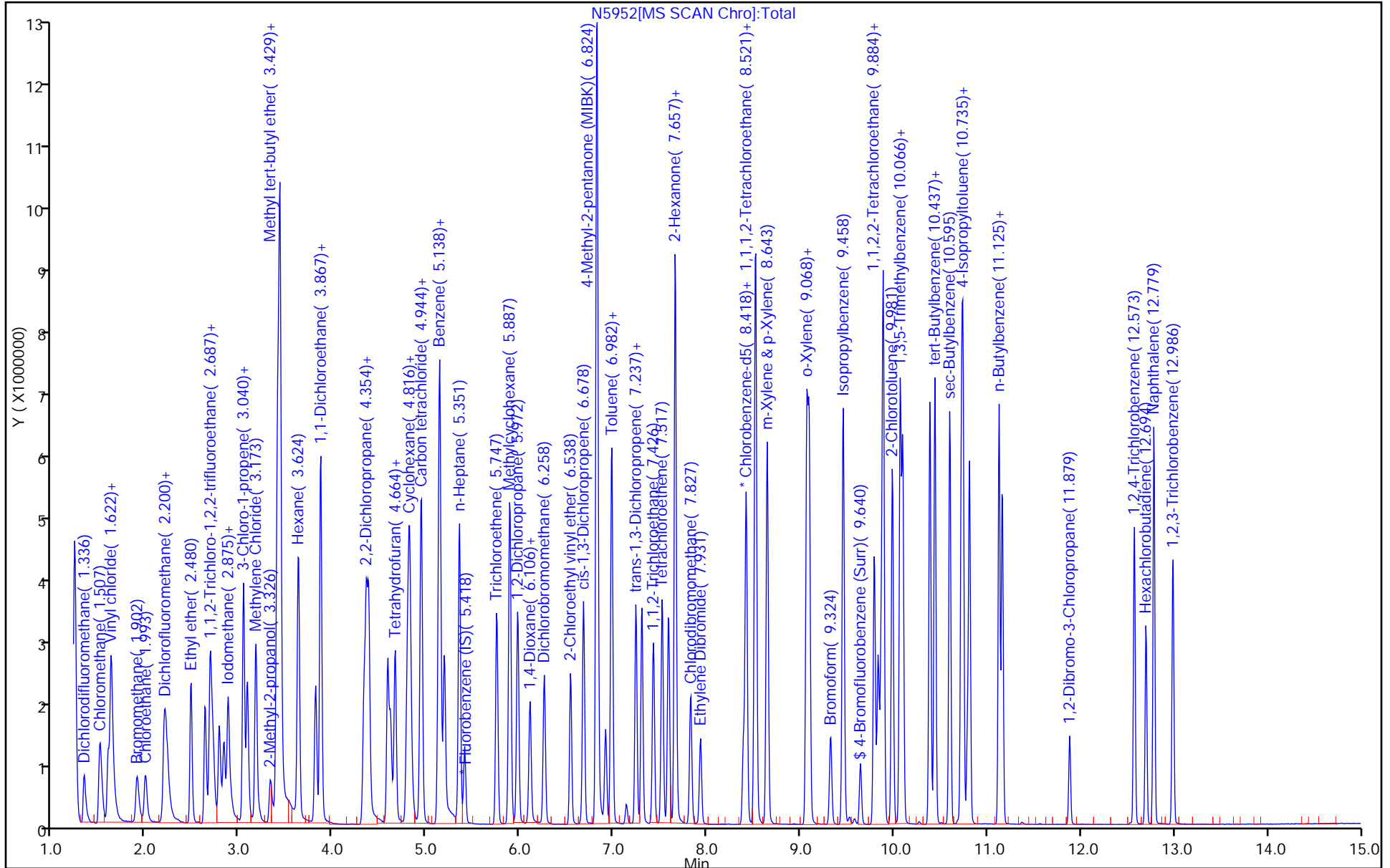
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

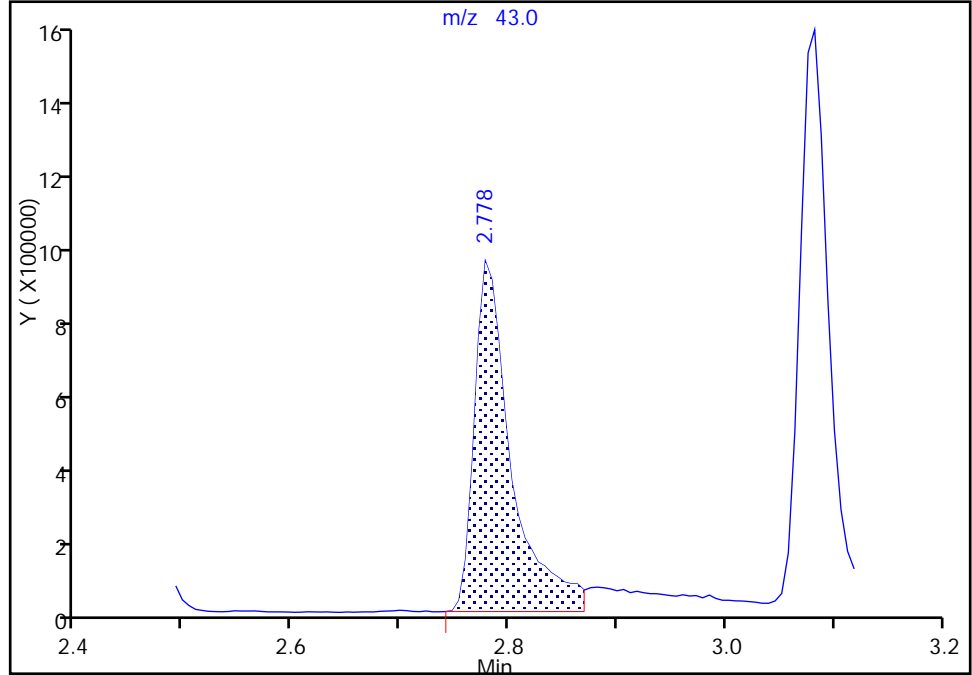
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Injection Date: 28-Dec-2017 18:55:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

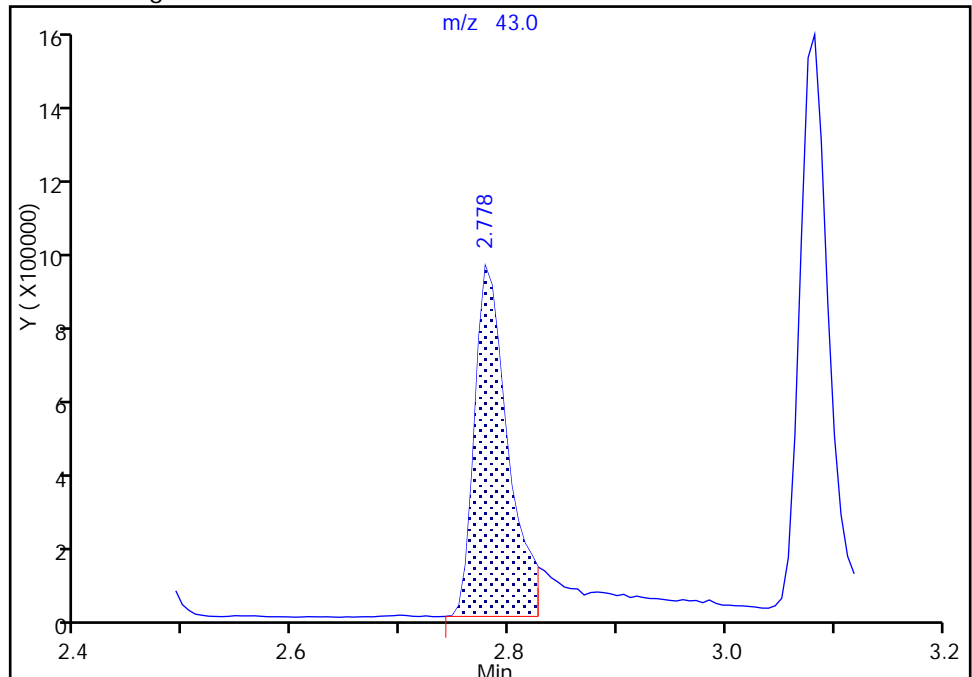
RT: 2.78
Area: 2268991
Amount: 502.6365
Amount Units: ug/L

Processing Integration Results



RT: 2.78
Area: 2044801
Amount: 495.1707
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 22:45:39
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

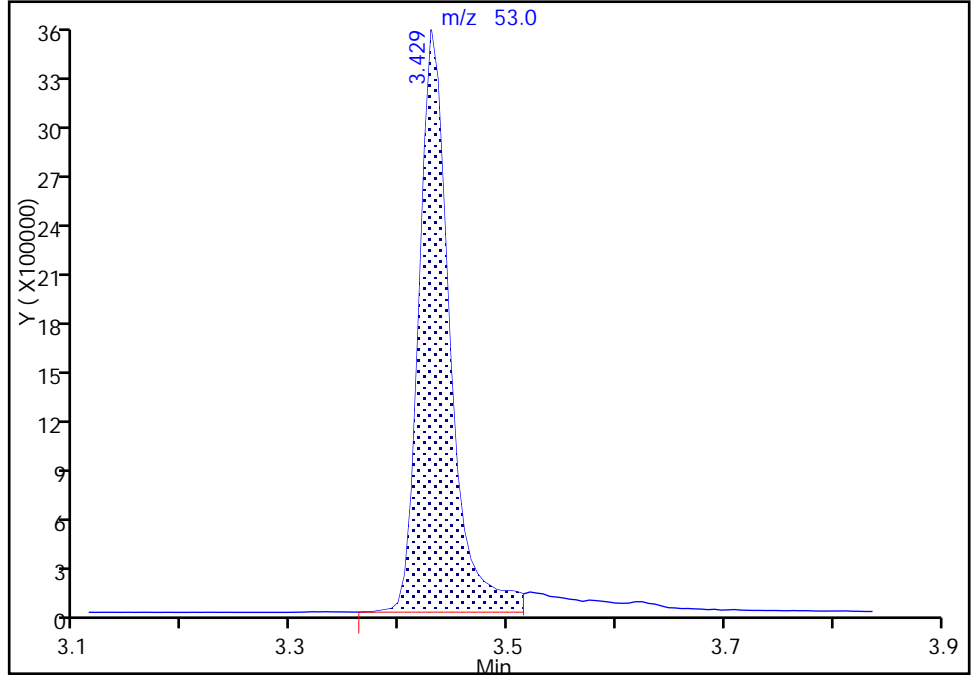
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Injection Date: 28-Dec-2017 18:55:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

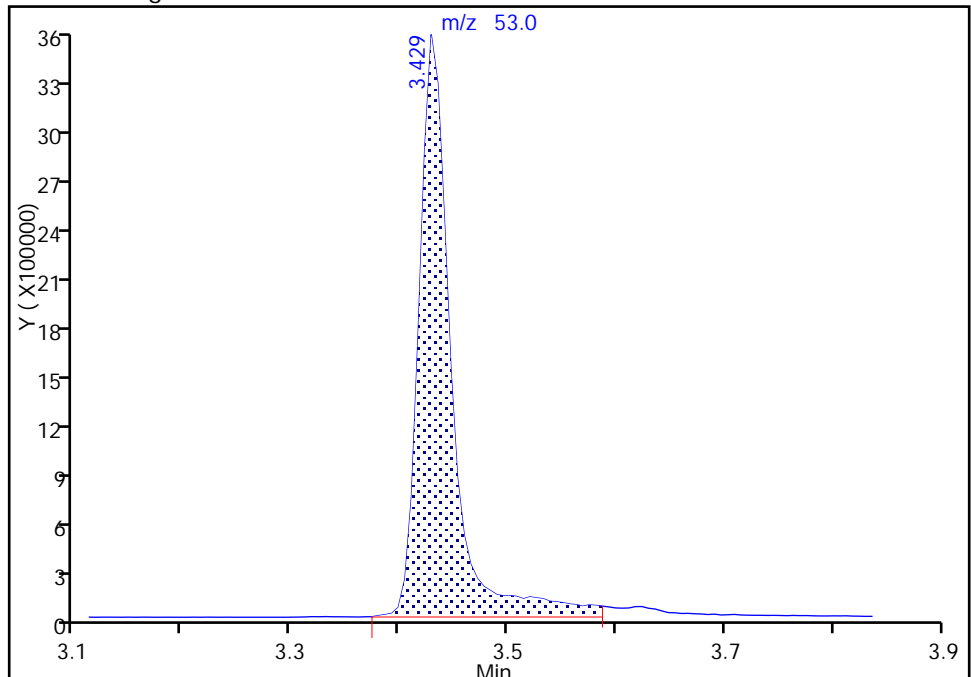
RT: 3.43
Area: 6994204
Amount: 983.5432
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 7376317
Amount: 1030.3563
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 02-Jan-2018 23:07:24
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

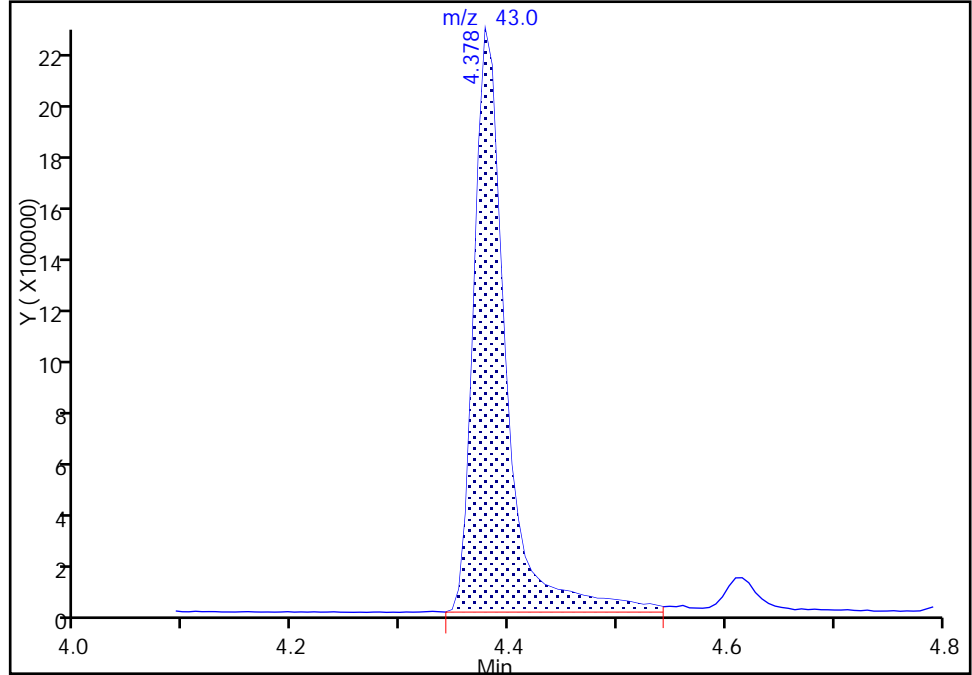
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Injection Date: 28-Dec-2017 18:55:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

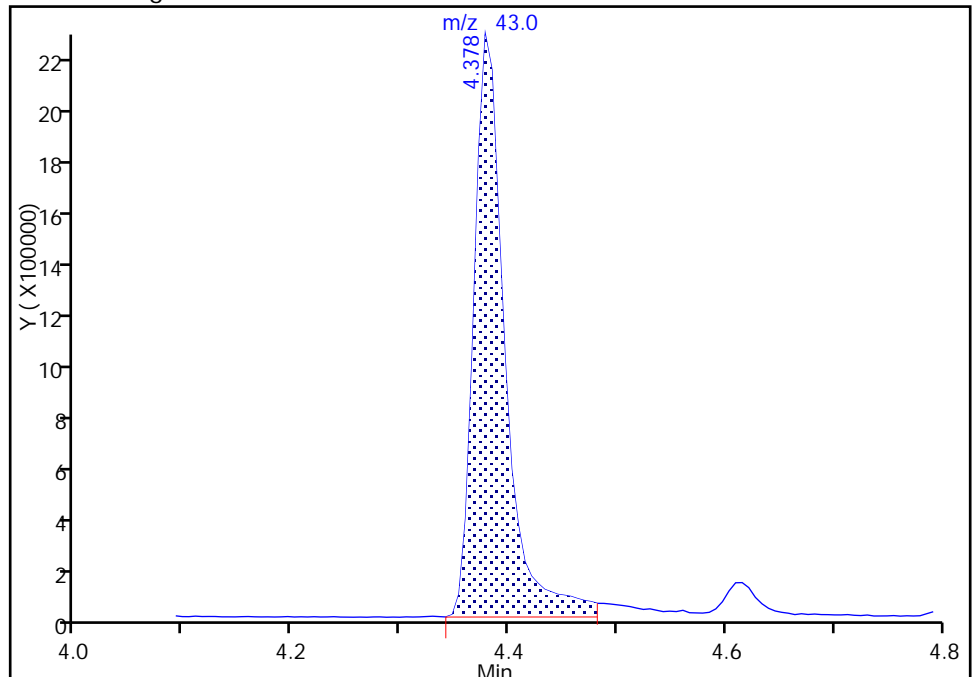
RT: 4.38
Area: 4649408
Amount: 522.0511
Amount Units: ug/L

Processing Integration Results



RT: 4.38
Area: 4513808
Amount: 510.3028
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 10:39:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

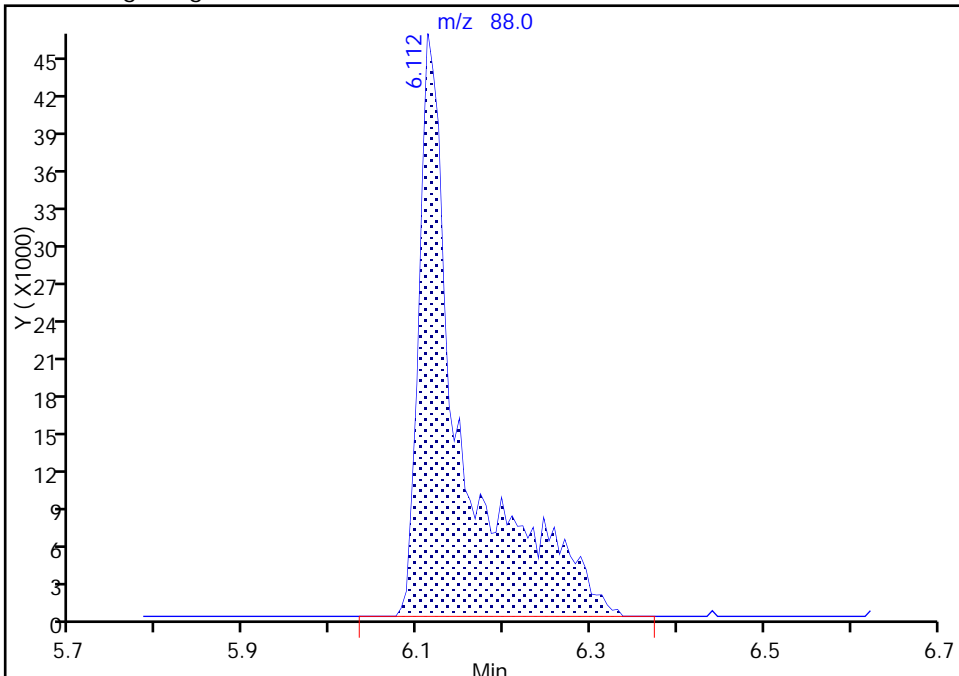
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5952.D
Injection Date: 28-Dec-2017 18:55:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: AM/LH/MS ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

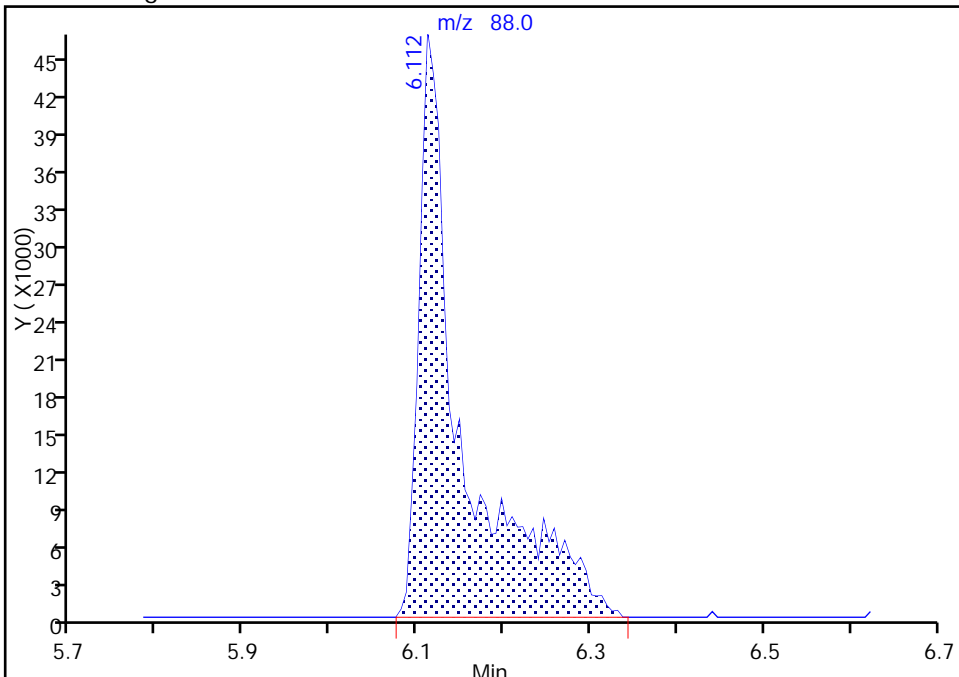
RT: 6.11
Area: 159177
Amount: 2061.8518
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 159179
Amount: 2061.8626
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 03-Jan-2018 08:54:52
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10 Calibration End Date: 12/01/2017 17:54 Calibration ID: 32266

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-390101/13	T2459.D
Level 2	IC 480-390101/14	T2460.D
Level 3	IC 480-390101/15	T2461.D
Level 4	IC 480-390101/16	T2462.D
Level 5	IC 480-390101/17	T2463.D
Level 6	ICIS 480-390101/18	T2464.D
Level 7	IC 480-390101/19	T2465.D
Level 8	IC 480-390101/20	T2466.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	1.7298 1.4851	1.5365 1.8005	1.5615 1.7165	1.6908	1.3888	Ave		1.6137		0.1000	8.8		20.0				
Chloromethane	++++ 2.2163	2.4404 2.3898	2.0805 2.3228	2.4384	2.0633	Ave		2.2788		0.1000	7.1		20.0				
Vinyl chloride	++++ 1.6404	1.8522 1.8858	1.7836 1.7908	1.8190	1.5401	Ave		1.7589		0.1000	7.0		20.0				
Butadiene	++++ 1.7255	2.0205 2.0272	2.0206 1.9151	1.9690	1.7977	Ave		1.9251			6.2		20.0				
Bromomethane	1.1194 0.9157	1.1813 1.0072	1.0111 0.9990	1.1119	0.8741	Ave		1.0275		0.1000	10.2		20.0				
Chloroethane	0.9430 0.8777	0.9336 0.9871	0.8631 0.9137	0.9309	0.8439	Ave		0.9116		0.1000	5.2		20.0				
Trichlorofluoromethane	2.8147 2.2072	2.3359 2.6280	1.9073 2.5025	2.3262	2.2553	Ave		2.3722		0.1000	11.7		20.0				
Dichlorofluoromethane	3.7754 2.2403	3.6479 2.4312	2.4110 2.3436	2.6409	2.1049	Lin1	0.6750	2.3307						0.9980		0.9900	
Ethyl ether	1.0970 1.1340	1.5268 1.2049	1.2145 1.2583	1.3536	1.1862	Ave		1.2469			11.0		20.0				
Acrolein	0.2394 0.1664	0.2726 0.1829	0.1803 0.1763	0.2098	0.1822	Ave		0.2012			18.4		20.0				
1,1-Dichloroethene	1.1198 1.0150	1.2335 1.1338	0.8262 1.1277	1.1162	1.0731	Ave		1.0807		0.1000	11.1		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.0620	1.1418 1.3445	0.7962 1.2822	1.1699	1.0501	Ave		1.1210		0.1000	16.0		20.0				
Acetone	0.5366 0.4618	0.5496 0.4659	0.3985 0.4804	0.4472	0.4813	Ave		0.4777		0.1000	10.1		20.0				
Iodomethane	1.9882 2.1531	2.3430 2.2839	1.7438 2.2942	2.3206	2.1782	Ave		2.1631			9.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10

Calibration End Date: 12/01/2017 17:54

Calibration ID: 32266

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
Carbon disulfide	3.7150 3.4807	3.4631 3.9627	2.7632 3.8167	3.9693	3.5216	Ave		3.5865			0.1000	10.9	20.0				
Allyl chloride	++++ 2.9591	3.7479 3.0596	2.3118 3.0704	3.1777	2.8418	Ave		3.0240				14.1	20.0				
Methyl acetate	1.0769 1.1379	1.2933 1.1416	0.8712 1.1528	1.1281	1.1330	Ave		1.1169			0.1000	10.5	20.0				
Methylene Chloride	2.9946 1.2961	2.2048 1.3168	1.4026 1.3166	1.4547	1.4065	Lin1	0.6792	1.3031			0.1000			0.9990		0.9900	
2-Methyl-2-propanol	0.1035 0.1211	0.1157 0.1240	0.0997 0.1264	0.1326	0.1138	Ave		0.1171				9.6	20.0				
Methyl tert-butyl ether	3.8047 3.8557	4.1105 4.0277	3.1583 3.9327	3.9658	3.8543	Ave		3.8387			0.1000	7.6	20.0				
trans-1,2-Dichloroethene	1.1600 1.2591	1.1211 1.2947	0.9605 1.2859	1.3278	1.2938	Ave		1.2129			0.1000	10.3	20.0				
Acrylonitrile	0.5668 0.5408	0.5956 0.5545	0.4457 0.5544	0.5644	0.5440	Ave		0.5458				8.0	20.0				
Hexane	++++ 2.1173	3.1462 2.5369	2.1489 2.5203	2.6763	2.2145	Ave		2.4801				14.7	20.0				
1,1-Dichloroethane	2.7949 2.5297	2.5759 2.7642	2.1315 2.6439	2.7864	2.5770	Ave		2.6004			0.2000	8.3	20.0				
Vinyl acetate	3.3071 3.5974	3.8850 3.6743	3.1658 3.6494	3.5982	3.5547	Ave		3.5540				6.3	20.0				
2,2-Dichloropropane	2.4752 2.1129	2.4286 2.2951	1.9131 2.2321	2.3063	2.0157	Ave		2.2224				8.8	20.0				
cis-1,2-Dichloroethene	1.2523 1.4849	1.5761 1.4736	1.1228 1.4800	1.4841	1.3862	Ave		1.4075			0.1000	10.6	20.0				
2-Butanone (MEK)	++++ 0.6622	0.8383 0.6899	0.5861 0.6841	0.6662	0.6847	Ave		0.6873			0.1000	11.0	20.0				
Chlorobromomethane	++++ 0.7223	0.7847 0.7896	0.5423 0.7560	0.7161	0.7431	Ave		0.7220				11.6	20.0				
Tetrahydrofuran	0.4284 0.4400	0.6276 0.4508	0.4539 0.4433	0.4760	0.4686	Ave		0.4736				13.5	20.0				
Chloroform	2.7905 2.4847	2.8128 2.5830	2.0516 2.5922	2.7033	2.5344	Ave		2.5691			0.2000	9.3	20.0				
1,1,1-Trichloroethane	1.9429 2.3717	2.3804 2.5387	1.8586 2.5643	2.5930	2.3147	Ave		2.3205			0.1000	12.0	20.0				
Cyclohexane	++++ 2.7938	3.5180 3.3097	2.1455 3.1868	3.1823	2.8505	Ave		2.9981			0.1000	15.1	20.0				
Carbon tetrachloride	1.6530 2.0340	2.2430 2.3459	1.3931 2.3270	2.1493	2.0048	Ave		2.0188			0.1000	16.7	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10

Calibration End Date: 12/01/2017 17:54

Calibration ID: 32266

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.7695 1.6392	1.9126 1.9148	1.2536 1.8673	1.7962	1.7093	Ave		1.7328			12.5		20.0				
Benzene	4.5656 4.5836	4.9452 4.8301	3.7237 4.7888	5.0367	4.4896	Ave		4.6204		0.5000	8.9		20.0				
Isobutyl alcohol	++++ 0.0504	0.0679 0.0542	0.0447 0.0567	0.0536	0.0490	Ave		0.0538			13.7		20.0				
1,2-Dichloroethane	2.5636 2.4066	2.5068 2.4530	3.7237 2.5177	2.5360	2.5223	Ave		2.4564		0.1000	5.5		20.0				
n-Heptane	3.4941 2.6701	2.7060 3.1651	2.6636 3.0149	3.0142	2.7078	Ave		2.9295			10.2		20.0				
Trichloroethene	1.2264 1.3675	1.5524 1.4877	1.1866 1.4470	1.5468	1.3537	Ave		1.3960		0.2000	9.9		20.0				
Methylcyclohexane	2.1461 2.0373	2.2387 2.4914	1.7001 2.3681	2.2090	2.1205	Ave		2.1639		0.1000	10.9		20.0				
1,2-Dichloropropane	1.2656 1.4188	1.4327 1.4800	1.1624 1.4475	1.4925	1.4250	Ave		1.3906		0.1000	8.3		20.0				
Dibromomethane	++++ 0.8122	0.8949 0.8311	0.7816 0.8532	0.8932	0.8272	Ave		0.8419		0.1000	4.9		20.0				
1,4-Dioxane	++++ 0.0015	++++ 0.0018	0.0015 0.0017	0.0015	0.0020	Ave		0.0017			10.6		20.0				
Bromodichloromethane	++++ 1.9602	1.8699 2.0262	1.5780 2.0530	1.9806	1.8765	Ave		1.9063		0.2000	8.4		20.0				
2-Chloroethyl vinyl ether	1.0413 0.9130	0.9406 0.9461	0.7748 0.9429	0.9447	0.9537	Ave		0.9321			7.9		20.0				
cis-1,3-Dichloropropene	2.2125 2.1126	1.6380 2.1883	1.5997 2.1871	2.2427	2.1467	Ave		2.0409		0.2000	12.9		20.0				
4-Methyl-2-pentanone (MIBK)	0.4164 0.4186	0.4449 0.4110	0.3466 0.4246	0.4193	0.4235	Ave		0.4131		0.1000	6.9		20.0				
Toluene	0.8098 0.8036	0.7644 0.8404	0.7252 0.8550	0.8632	0.8140	Ave		0.8094		0.4000	5.7		20.0				
trans-1,3-Dichloropropene	0.4991 0.5380	0.6114 0.5631	0.4877 0.5703	0.5385	0.5521	Ave		0.5450		0.1000	7.2		20.0				
Ethyl methacrylate	0.5027 0.4151	0.4319 0.4119	0.3797 0.4403	0.4150	0.4143	Ave		0.4264			8.3		20.0				
1,1,2-Trichloroethane	++++ 0.2407	0.2310 0.2374	0.2075 0.2470	0.2507	0.2537	Ave		0.2383		0.1000	6.6		20.0				
Tetrachloroethene	++++ 0.3866	0.3910 0.4229	0.3361 0.4302	0.3954	0.3960	Ave		0.3940		0.2000	7.7		20.0				
1,3-Dichloropropane	0.5001 0.5164	0.5540 0.5106	0.4919 0.5265	0.5239	0.5121	Ave		0.5169			3.6		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10

Calibration End Date: 12/01/2017 17:54

Calibration ID: 32266

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.3099 0.2862	0.3124 0.2892	0.2659 0.2957	0.2920	0.2880	Ave		0.2924			0.1000	5.0		20.0			
Dibromochloromethane	0.3884 0.3933	0.4220 0.4116	0.2730 0.4359	0.3969	0.3932	Ave		0.3893			0.1000	12.8		20.0			
1,2-Dibromoethane	0.3137 0.3307	0.3410 0.3226	0.2848 0.3422	0.3228	0.3361	Ave		0.3242				5.8		20.0			
Chlorobenzene	0.9556 0.9825	1.0504 1.0213	0.8828 1.0541	1.0570	1.0374	Ave		1.0052			0.5000	6.1		20.0			
Ethylbenzene	1.7705 1.6559	1.7923 1.6943	1.3999 1.7153	1.6663	1.6842	Ave		1.6723			0.1000	7.2		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.3976	0.4610 0.4175	0.3538 0.4372	0.4136	0.4079	Ave		0.4127				8.1		20.0			
m,p-Xylene	++++ 0.6417	0.7146 0.6560	0.5311 0.6723	0.6627	0.6383	Ave		0.6452			0.1000	8.7		20.0			
o-Xylene	++++ 0.6227	0.6530 0.6257	0.5761 0.6557	0.6832	0.6546	Ave		0.6387			0.3000	5.4		20.0			
Styrene	1.0908 1.1159	1.0761 1.1025	0.9837 1.1170	1.1296	1.0833	Ave		1.0874			0.3000	4.2		20.0			
Bromoform	0.2713 0.2437	0.2311 0.2555	0.2016 0.2775	0.2522	0.2444	Ave		0.2472			0.1000	9.6		20.0			
Isopropylbenzene	++++ 3.0130	3.2405 3.0609	2.2445 3.1261	3.1012	2.9246	Ave		2.9587			0.1000	11.1		20.0			
Bromobenzene	0.7701 0.7837	0.8299 0.7712	0.6704 0.7899	0.8419	0.8329	Ave		0.7862				7.0		20.0			
1,1,2,2-Tetrachloroethane	0.7546 0.6635	0.7249 0.6374	0.4848 0.6449	0.6654	0.6506	Ave		0.6533			0.3000	12.2		20.0			
N-Propylbenzene	3.8559 3.4619	3.3593 3.5029	2.7464 3.5734	3.7103	3.4147	Ave		3.4531				9.5		20.0			
1,2,3-Trichloropropane	0.2094 0.2166	0.2551 0.2274	0.1566 0.2324	0.2741	0.2444	Ave		0.2270				15.5		20.0			
trans-1,4-Dichloro-2-butene	0.3867 0.3055	0.3669 0.3039	0.2146 0.3042	0.3040	0.2794	Ave		0.3082				17.0		20.0			
2-Chlorotoluene	0.6948 0.7355	0.6752 0.7405	0.5819 0.7522	0.7595	0.7210	Ave		0.7076				8.2		20.0			
1,3,5-Trimethylbenzene	2.6031 2.6277	3.0489 2.7394	2.0039 2.7152	2.7113	2.5956	Ave		2.6306				11.1		20.0			
4-Chlorotoluene	2.1727 2.2590	2.4620 2.2489	1.8585 2.3355	2.3429	2.2958	Ave		2.2469				7.9		20.0			
tert-Butylbenzene	++++ 0.5766	0.6786 0.6133	0.4548 0.6273	0.5952	0.5843	Ave		0.5900				11.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 390101
 SDG No.: _____
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 12/01/2017 15:10 Calibration End Date: 12/01/2017 17:54 Calibration ID: 32266

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	2.8188 2.7905	2.9641 2.7653	2.3728 2.7678	2.9232	2.7470	Ave		2.7687			6.4		20.0				
sec-Butylbenzene	2.7429 3.1219	3.2361 3.2715	2.4118 3.3617	3.2220	3.0629	Ave		3.0538			10.5		20.0				
4-Isopropyltoluene	2.5589 3.1009	2.9646 3.2128	2.4822 3.2245	3.2351	3.0445	Ave		2.9779			10.0		20.0				
1,3-Dichlorobenzene	++++ 1.5371	1.5528 1.5008	1.2841 1.5498	1.5671	1.5828	Ave		1.5106		0.6000	6.8		20.0				
1,4-Dichlorobenzene	1.3718 1.5860	1.6057 1.5332	1.2459 1.5799	1.6104	1.6672	Ave		1.5250		0.5000	9.3		20.0				
n-Butylbenzene	2.3389 2.4300	2.8320 2.6013	2.0813 2.6175	2.5784	2.4733	Ave		2.4941			8.9		20.0				
1,2-Dichlorobenzene	1.2998 1.5148	1.5609 1.4585	1.2898 1.4928	1.4917	1.5057	Ave		1.4518		0.4000	7.0		20.0				
1,2-Dibromo-3-Chloropropane	++++ 0.1412	0.1092 0.1373	0.1163 0.1488	0.1313	0.1405	Ave		0.1321		0.0500	10.9		20.0				
1,2,4-Trichlorobenzene	1.1126 1.2508	1.3527 1.2282	0.8861 1.2651	1.1646	1.2343	Ave		1.1868		0.2000	11.8		20.0				
Hexachlorobutadiene	++++ 0.6026	0.6931 0.6316	0.5277 0.6691	0.5470	0.5557	Ave		0.6038			10.6		20.0				
Naphthalene	2.2933 2.5486	2.6169 2.5048	1.9879 2.6122	2.5048	2.4875	Ave		2.4445			8.6		20.0				
1,2,3-Trichlorobenzene	1.2725 1.1386	1.2010 1.1053	0.9349 1.1720	1.2716	1.1567	Ave		1.1566			9.3		20.0				
Dibromofluoromethane (Surr)	1.2410 1.3033	1.2486 1.3451	1.1957 1.3035	1.3214	1.3111	Ave		1.2837			3.9		20.0				
1,2-Dichloroethane-d4 (Surr)	1.6620 1.7425	1.7062 1.8341	1.6195 1.7414	1.7142	1.7848	Ave		1.7256			3.9		20.0				
Toluene-d8 (Surr)	1.2582 1.1949	1.2636 1.2376	1.2197 1.2572	1.2362	1.2626	Ave		1.2413			2.0		20.0				
4-Bromofluorobenzene (Surr)	0.4160 0.4067	0.4132 0.4074	0.3995 0.4303	0.4008	0.4370	Ave		0.4139			3.3		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10 Calibration End Date: 12/01/2017 17:54 Calibration ID: 32266

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-390101/13	T2459.D
Level 2	IC 480-390101/14	T2460.D
Level 3	IC 480-390101/15	T2461.D
Level 4	IC 480-390101/16	T2462.D
Level 5	IC 480-390101/17	T2463.D
Level 6	ICIS 480-390101/18	T2464.D
Level 7	IC 480-390101/19	T2465.D
Level 8	IC 480-390101/20	T2466.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	4010 209004	8885 486351	18375 923742	47054	78140	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	++++ 311902	14112 645531	24483 1250035	67860	116090	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 230856	10711 509382	20989 963741	50621	86652	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	++++ 242832	11684 547564	23778 1030606	54795	101147	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	2595 128872	6831 272047	11898 537628	30943	49179	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	2186 123518	5399 266630	10157 491689	25907	47479	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	6525 310628	13508 709873	22445 1346756	64737	126892	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Lin1	8752 315278	21095 656695	28372 1261198	73496	118429	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2543 159585	8829 325467	14292 677142	37670	66740	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	2775 117093	7882 247026	10609 474294	29198	51265	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	2596 142840	7133 306258	9723 606856	31062	60376	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 149458	6603 363155	9369 689998	32559	59084	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	6220 324946	15892 629282	23448 1292627	62233	135388	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4609 303005	13549 616920	20520 1234644	64580	122554	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	8612 489837	20026 1070372	32516 2053993	110464	198140	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10

Calibration End Date: 12/01/2017 17:54

Calibration ID: 32266

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	++++ 416431	21673 826451	27204 1652372	88434	159891	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	4993 320280	14958 616726	20504 1240790	62787	127494	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	6942 182403	12750 355696	16505 708547	40483	79137	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	2399 170486	6691 334842	11729 680154	36895	64034	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	8820 542614	23770 1087941	37166 2116426	110365	216854	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	2689 177196	6483 349721	11303 692022	36951	72796	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	13139 761138	34445 1497719	52451 2983632	157079	306054	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	++++ 297974	18194 685242	25288 1356321	74481	124595	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	6479 356011	14896 746654	25083 1422840	77543	144992	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	15333 1012542	44932 1984933	74509 3927863	200272	400004	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5738 297352	14044 619934	22513 1201235	64182	113412	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	2903 208976	9114 398050	13213 796490	41302	77990	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	++++ 465941	24237 931707	34486 1840644	92699	192608	++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	++++ 101654	4538 213270	6382 406830	19930	41810	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	1986 123843	7259 243521	10682 477145	26491	52728	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6469 349679	16266 697710	24142 1395027	75232	142594	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	4504 333768	13765 685741	21871 1379999	72162	130235	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	++++ 393177	20344 894006	25247 1715009	88562	160380	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	3832 286240	12971 633661	16394 1252289	59813	112795	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4102 230693	11060 517203	14752 1004874	49987	96170	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	10584 645054	28597 1304679	43819 2577133	140168	252603	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10

Calibration End Date: 12/01/2017 17:54

Calibration ID: 32266

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	++++ 177356	9821 365775	13140 762504	37291	68856	++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5943 338685	14496 662585	25245 1354890	70576	141911	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	8100 375762	15648 854929	31344 1622507	83884	152348	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	2843 192455	8977 401855	13964 778723	43046	76165	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	4975 286715	12946 672963	20006 1274409	61474	119306	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	2934 199664	8285 399778	13679 779007	41534	80174	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	++++ 114305	5175 224495	9198 459134	24856	46541	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 15750	++++ 35650	1265 68336	3222	7979	++++ 500	++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	++++ 275865	10813 547302	18569 1104822	55119	105576	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	2414 128493	5439 255561	9118 507437	26290	53658	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5129 297307	9472 591090	18825 1176990	62414	120780	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	17091 1092994	45939 2092799	72218 4158135	218534	432518	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	6647 419696	15784 855862	30224 1674748	89972	166274	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	4097 280981	12624 573419	20326 1117055	56124	112781	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	4126 216817	8919 419470	15826 862498	43253	84638	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 125732	4770 241800	8647 483813	26131	51835	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 201894	8074 430626	14008 842735	41210	80902	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	4105 269723	11439 520019	20502 1031311	54603	104614	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	12720 747314	32252 1472505	55412 2895943	152153	294125	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3188 205415	8714 419192	11380 853861	41367	80325	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	2575 172711	7042 328535	11871 670357	33641	68658	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10

Calibration End Date: 12/01/2017 17:54

Calibration ID: 32266

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	7844 513114	21689 1040121	36795 2064779	110172	211920	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	14532 864821	37010 1725480	58346 3359778	173679	344043	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 207665	9520 425126	14747 856344	43108	83324	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	++++ 335126	14755 668044	22136 1316940	69075	130382	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	++++ 325203	13483 637203	24012 1284344	71206	133715	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	8953 582808	22221 1122760	40997 2187976	117738	221295	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2227 127295	4773 260162	8402 543512	26289	49923	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	++++ 866576	38558 1769240	54262 3470133	183681	342068	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	3784 225416	9875 445751	16207 876852	49864	97415	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	3708 190839	8625 368424	11721 715857	39410	76101	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	18947 995703	39972 2024753	66397 3966619	219756	399393	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1029 62307	3035 131449	3786 258024	16235	28583	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1900 87877	4366 175682	5188 337715	18007	32675	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	3414 211548	8034 428022	14068 834953	44986	84332	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	12791 755769	36278 1583419	48446 3013916	160585	303590	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	10676 649716	29295 1299921	44931 2592492	138768	268525	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 165841	8075 354529	10995 696295	35254	68345	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	13851 802580	35270 1598414	57366 3072369	173138	321301	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	13478 897896	38506 1890979	58307 3731655	190833	358241	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	12574 891867	35275 1857061	60009 3579306	191609	356094	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 442104	18477 867476	31044 1720298	92819	185131	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2 Analy Batch No.: 390101

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/01/2017 15:10 Calibration End Date: 12/01/2017 17:54 Calibration ID: 32266

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,4-Dichlorobenzene	DCBd 4	Ave	6741 456156	19106 886205	30121 1753729	95382	195004	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	11493 698916	33698 1503618	50318 2905554	152713	289289	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	6387 435683	18573 843052	31182 1657077	88351	176112	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 40605	1299 79362	2811 165215	7776	16436	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5467 359762	16096 709918	21422 1404288	68978	144367	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 173329	8247 365095	12757 742728	32396	64998	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	11269 733008	31138 1447842	48060 2899611	148355	290942	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	6253 327490	14290 638873	22602 1300942	75313	135294	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	179807 183409	180509 181663	175876 175377	183863	184411	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	240796 245222	246660 247711	238225 234289	238522	251045	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	645453 624064	652294 630165	635438 615653	644255	644809	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	213409 212402	213305 207443	208134 210703	208881	223184	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Dec-2017 15:10:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.4
 Misc. Info.: 480-0067685-013
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:08 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 04-Dec-2017 08:18:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	144887	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	513004	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	307113	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	92	179807	25.0	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	240796	25.0	24.1	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	96	645453	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	87	213409	25.0	25.1	
11 Dichlorodifluoromethane	85	1.222	1.232	-0.010	52	4010	0.4000	0.4288	M
13 Chloromethane	50	1.387	1.398	-0.011	56	7165	0.4000	0.5425	M
151 Butadiene	54	1.481	1.481	0.000	39	5952	0.4000	0.5335	M
14 Vinyl chloride	62	1.470	1.481	-0.011	52	5436	0.4000	0.5333	M
15 Bromomethane	94	1.771	1.781	-0.010	57	2595	0.4000	0.4358	M
16 Chloroethane	64	1.823	1.833	-0.010	45	2186	0.4000	0.4138	M
17 Trichlorofluoromethane	101	2.051	2.051	0.000	28	6525	0.4000	0.4746	
18 Dichlorofluoromethane	67	2.051	2.071	-0.020	25	8752	0.4000	0.3583	M
19 Ethyl ether	59	2.289	2.299	-0.010	42	2543	0.4000	0.3519	M
21 Acrolein	56	2.476	2.476	0.000	49	2775	2.00	2.38	M
22 1,1-Dichloroethene	96	2.507	2.507	0.000	51	2596	0.4000	0.4145	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.527	-0.010	1	727	0.4000	0.1119	M
23 Acetone	43	2.621	2.621	0.000	71	6220	2.00	2.25	
24 Iodomethane	142	2.662	2.662	0.000	71	4609	0.4000	0.3677	
25 Carbon disulfide	76	2.683	2.693	-0.010	89	8612	0.4000	0.4143	
27 3-Chloro-1-propene	41	2.838	2.849	-0.011	91	10010	0.4000	0.5712	
28 Methyl acetate	43	2.890	2.890	0.000	63	4993	0.8000	0.7714	
30 Methylene Chloride	84	2.983	2.983	0.000	86	6942	0.4000	0.3980	M
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	34	2399	4.00	3.54	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	85	8820	0.4000	0.3965	
32 trans-1,2-Dichloroethene	96	3.191	3.180	0.011	83	2689	0.4000	0.3826	
34 Acrylonitrile	53	3.242	3.242	0.000	98	13139	4.00	4.15	M
35 Hexane	57	3.346	3.346	0.000	85	12332	0.4000	0.8580	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	94	6479	0.4000	0.4299	
39 Vinyl acetate	43	3.584	3.584	0.000	75	15333	0.8000	0.7444	M
42 2,2-Dichloropropane	77	3.999	3.999	0.000	58	5738	0.4000	0.4455	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	1	2903	0.4000	0.3559	M
44 2-Butanone (MEK)	43	4.051	4.051	0.000	85	10443	2.00	2.62	
47 Chlorobromomethane	128	4.217	4.217	0.000	71	1186	0.4000	0.2834	
48 Tetrahydrofuran	42	4.237	4.227	0.010	49	1986	0.8000	0.7236	M
50 Chloroform	83	4.279	4.279	0.000	1	6469	0.4000	0.4345	M
52 Cyclohexane	56	4.382	4.372	0.010	31	9233	0.4000	0.5314	M
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	20	4504	0.4000	0.3349	
53 Carbon tetrachloride	117	4.486	4.486	0.000	83	3832	0.4000	0.3275	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	84	4102	0.4000	0.4085	
55 Benzene	78	4.662	4.652	0.010	42	10584	0.4000	0.3953	
56 Isobutyl alcohol	43	4.673	4.673	0.000	29	5550	10.0	17.8	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	1	5943	0.4000	0.4175	
59 n-Heptane	43	4.776	4.787	-0.010	85	8100	0.4000	0.4771	M
60 Trichloroethene	95	5.139	5.139	0.000	81	2843	0.4000	0.3514	
62 Methylcyclohexane	83	5.222	5.232	-0.010	79	4975	0.4000	0.3967	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	41	2934	0.4000	0.3641	
66 1,4-Dioxane	88		5.439				ND	ND	
65 Dibromomethane	93	5.439	5.439	0.000	68	1662	0.4000	0.3406	
67 Dichlorobromomethane	83	5.553	5.553	0.000	93	5515	0.4000	0.4992	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	4	2414	0.4000	0.4469	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	91	5129	0.4000	0.4336	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	99	17091	2.00	2.02	
73 Toluene	92	6.092	6.092	0.000	91	6647	0.4000	0.4002	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	1	4097	0.4000	0.3663	M
77 Ethyl methacrylate	69	6.331	6.331	0.000	75	4126	0.4000	0.4716	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	82	3055	0.4000	0.6247	
79 Tetrachloroethene	166	6.496	6.496	0.000	84	3979	0.4000	0.4921	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	1	4105	0.4000	0.3870	M
81 2-Hexanone	43	6.621	6.621	0.000	94	12720	2.00	2.12	
82 Chlorodibromomethane	129	6.756	6.755	0.001	39	3188	0.4000	0.3991	
83 Ethylene Dibromide	107	6.838	6.838	0.000	46	2575	0.4000	0.3870	
86 Chlorobenzene	112	7.191	7.191	0.000	90	7844	0.4000	0.3803	
88 Ethylbenzene	91	7.253	7.253	0.000	97	14532	0.4000	0.4235	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	1	2765	0.4000	0.3265	M
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	6183	0.4000	0.4670	
91 o-Xylene	106	7.657	7.667	-0.010	70	6586	0.4000	0.5025	
92 Styrene	104	7.688	7.688	0.000	88	8953	0.4000	0.4012	
93 Bromoform	173	7.885	7.885	0.000	37	2227	0.4000	0.4391	
95 Isopropylbenzene	105	7.947	7.947	0.000	94	12016	0.4000	0.3306	
97 Bromobenzene	156	8.227	8.227	0.000	78	3784	0.4000	0.3918	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	1	3708	0.4000	0.4621	
99 N-Propylbenzene	91	8.279	8.279	0.000	97	18947	0.4000	0.4467	
101 trans-1,4-Dichloro-2-buten	53	8.289	8.289	0.000	36	1900	0.4000	0.5019	
100 1,2,3-Trichloropropane	110	8.279	8.289	-0.010	46	1029	0.4000	0.3690	
105 2-Chlorotoluene	126	8.372	8.362	0.010	92	3414	0.4000	0.3928	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	92	12791	0.4000	0.3958	
102 4-Chlorotoluene	91	8.455	8.455	0.000	94	10676	0.4000	0.3868	
106 tert-Butylbenzene	134	8.673	8.673	0.000	62	2030	0.4000	0.2801	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	93	13851	0.4000	0.4072	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	94	13478	0.4000	0.3593	
111 4-Isopropyltoluene	119	8.963	8.973	-0.010	93	12574	0.4000	0.3437	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	93	8742	0.4000	0.4711	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	85	6741	0.4000	0.3598	
115 n-Butylbenzene	91	9.305	9.305	0.000	95	11493	0.4000	0.3751	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	90	6387	0.4000	0.3581	
117 1,2-Dibromo-3-Chloropropan	75		10.041				ND	ND	M
119 1,2,4-Trichlorobenzene	180	10.683	10.693	-0.010	89	5467	0.4000	0.3750	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	88	3938	0.4000	0.5309	
121 Naphthalene	128	10.901	10.901	0.000	97	11269	0.4000	0.3753	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	55	6253	0.4000	0.4401	
S 126 Xylenes, Total	1				0			0.9695	
S 123 1,3-Dichloropropene, Total	1				0			0.8000	
S 124 1,2-Dichloroethene, Total	1				0			0.7384	
S 125 Total BTEX	1				0			2.19	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00116	Amount Added: 0.40	Units: uL	
GAS CORP mix_00253	Amount Added: 0.40	Units: uL	
T_8260_IS_00180	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D

Injection Date: 01-Dec-2017 15:10:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 0.4

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

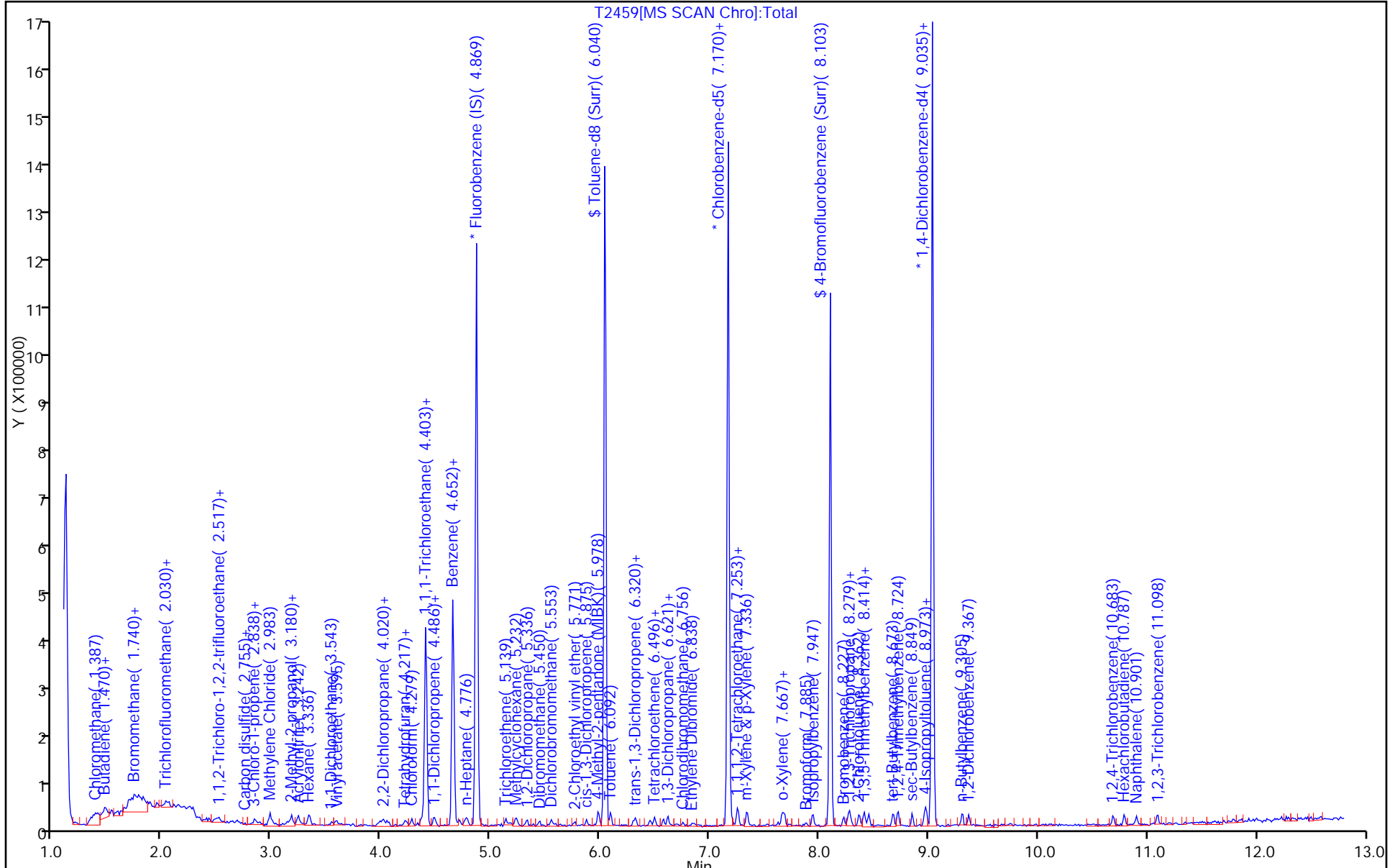
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

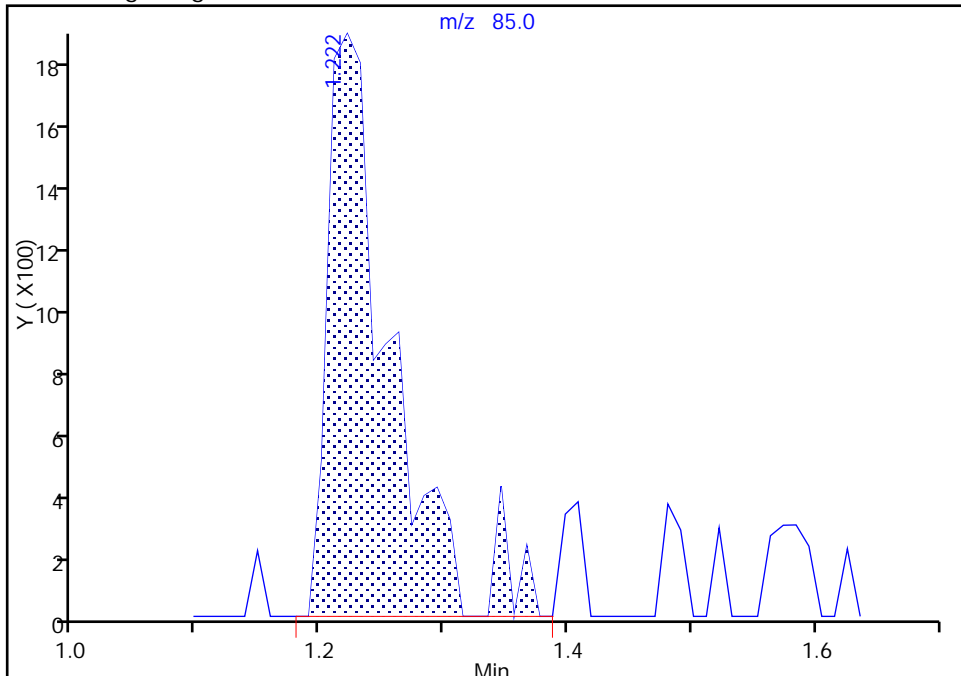
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

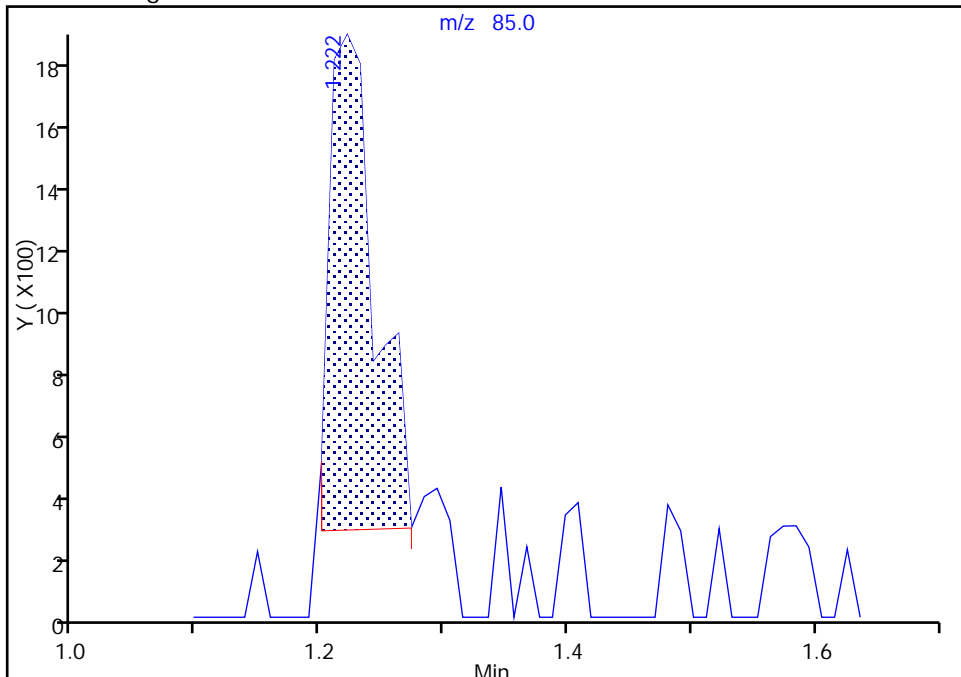
RT: 1.22
Area: 6456
Amount: 0.619576
Amount Units: ug/L

Processing Integration Results



RT: 1.22
Area: 4010
Amount: 0.428780
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 09:56:51
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

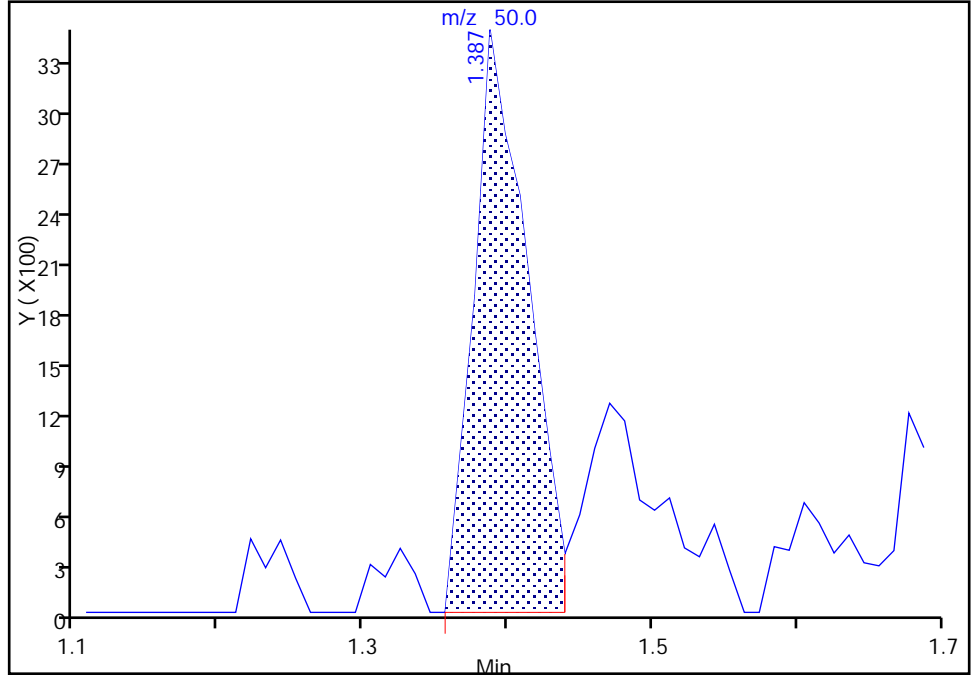
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

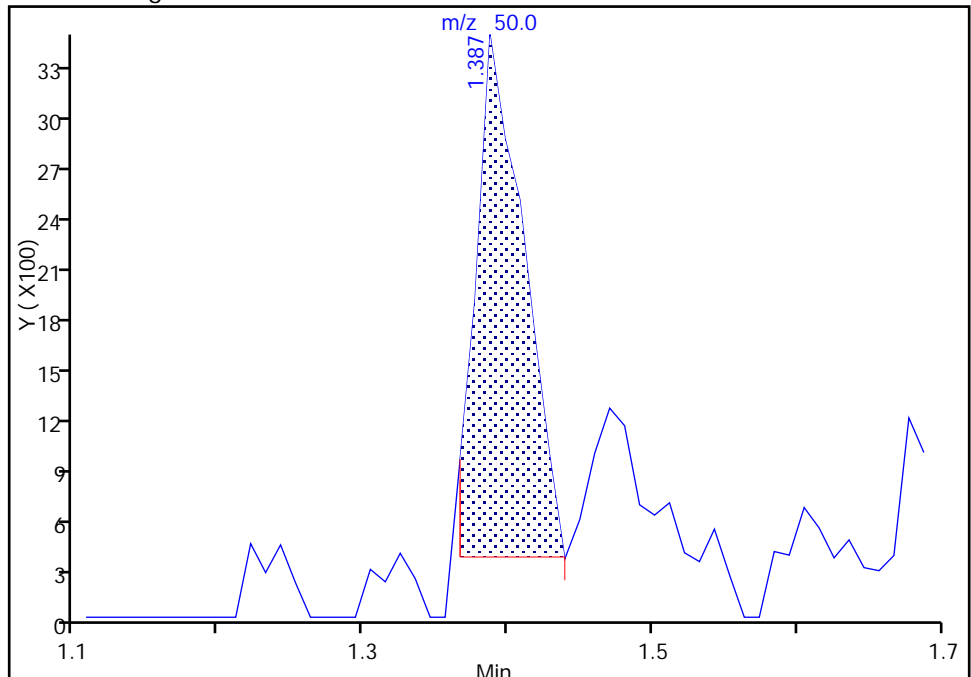
RT: 1.39
Area: 8917
Amount: 0.659584
Amount Units: ug/L

Processing Integration Results



RT: 1.39
Area: 7165
Amount: 0.542526
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 09:57:14
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

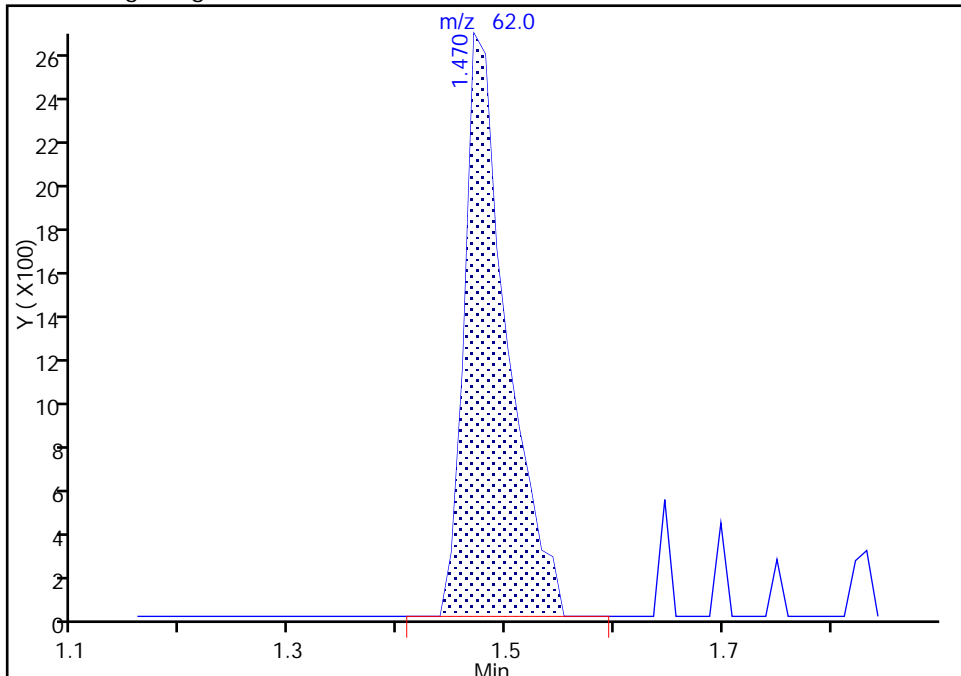
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

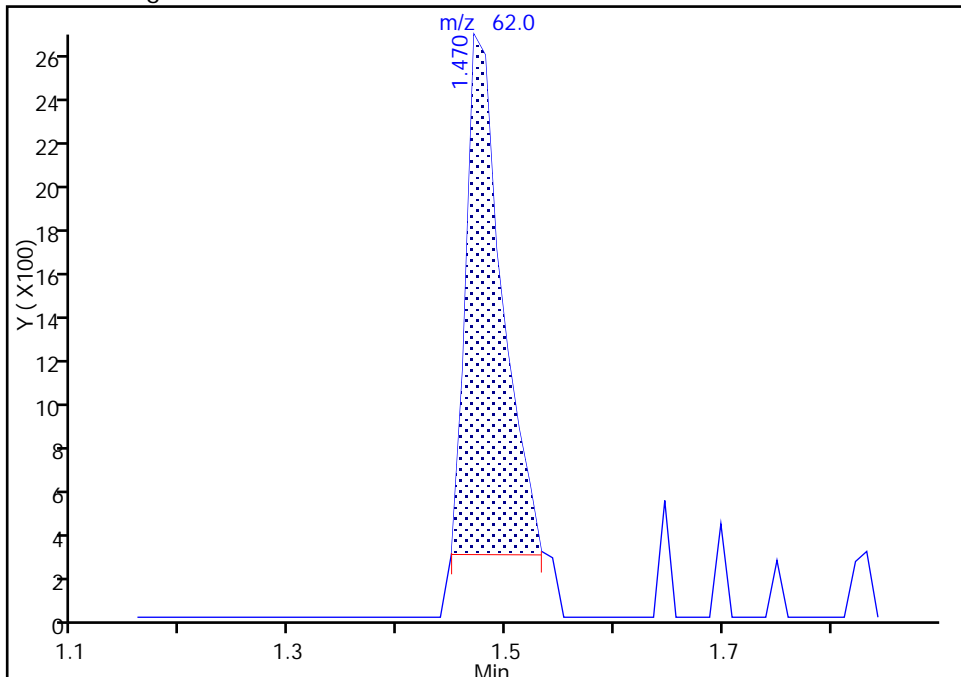
RT: 1.47
Area: 7200
Amount: 0.699979
Amount Units: ug/L

Processing Integration Results



RT: 1.47
Area: 5436
Amount: 0.533287
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 09:58:10
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

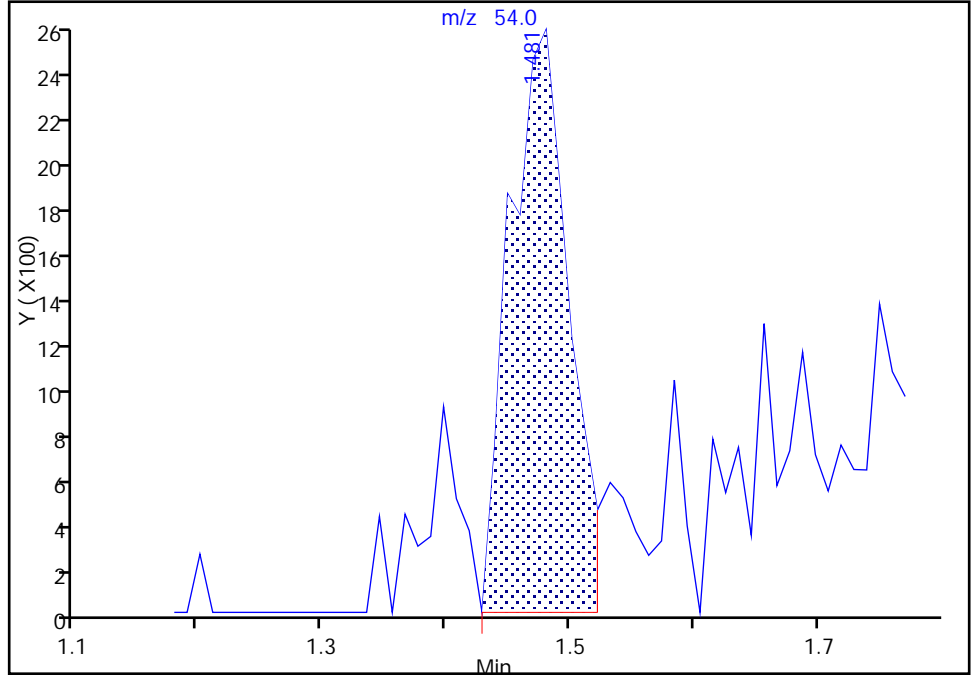
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

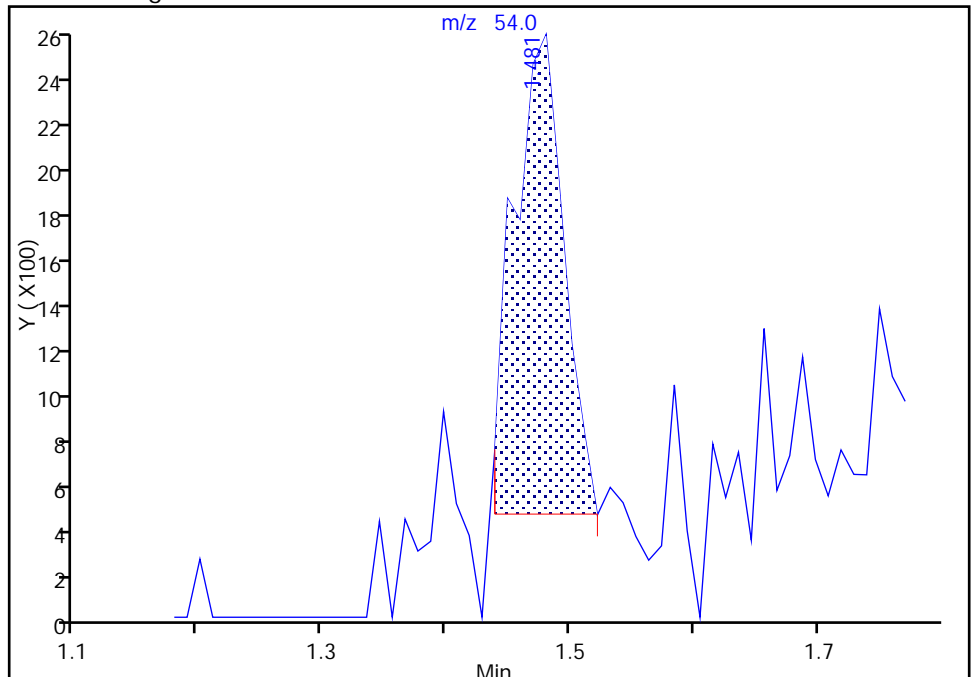
RT: 1.48
Area: 8482
Amount: 0.734607
Amount Units: ug/L

Processing Integration Results



RT: 1.48
Area: 5952
Amount: 0.533489
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

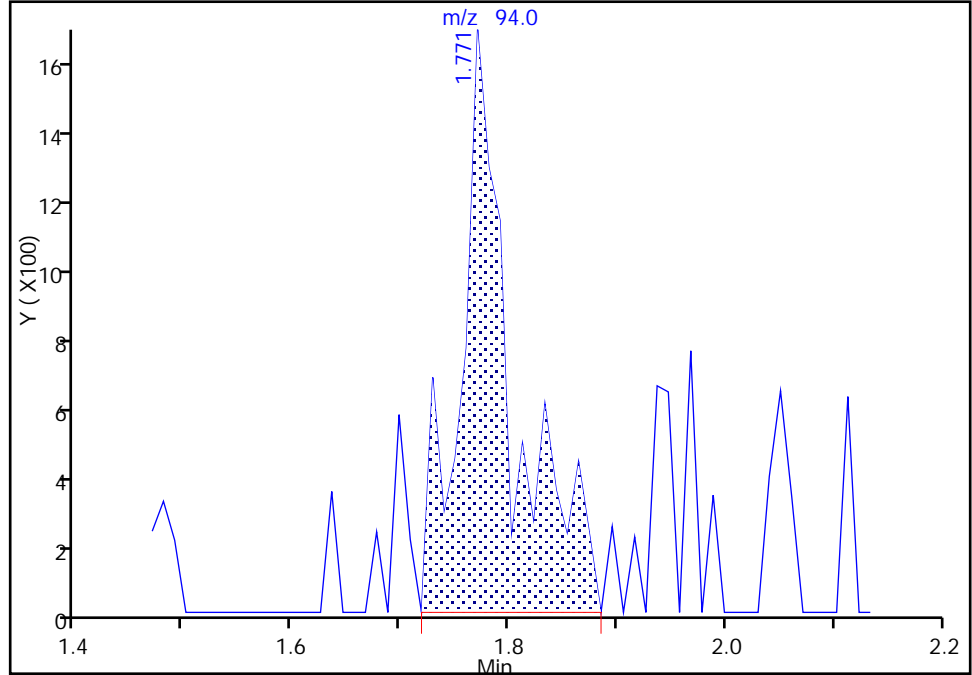
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Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

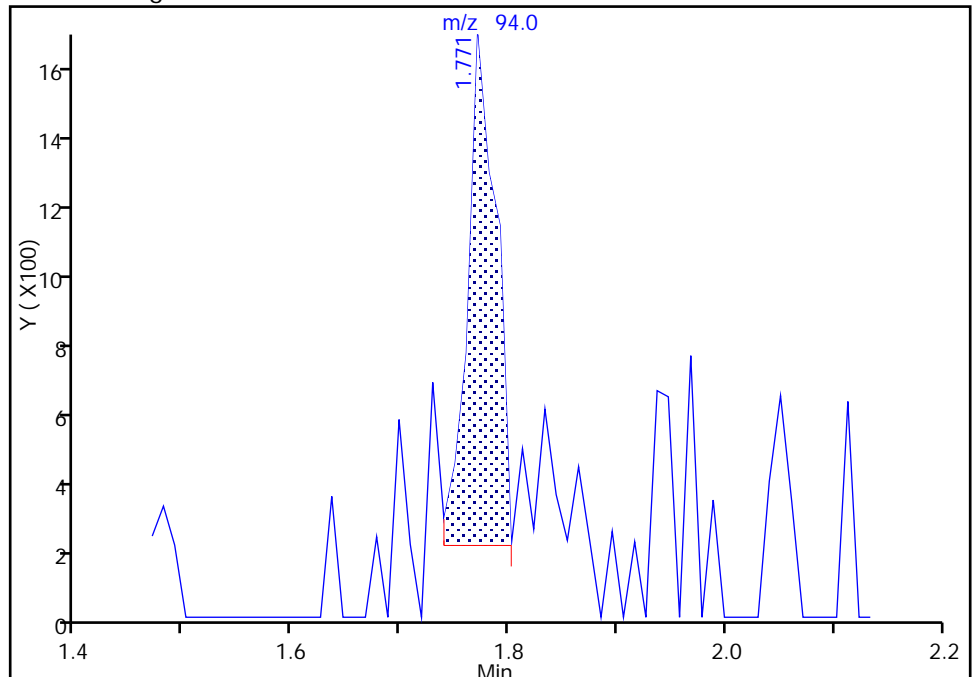
RT: 1.77
Area: 5402
Amount: 0.632981
Amount Units: ug/L

Processing Integration Results



RT: 1.77
Area: 2595
Amount: 0.435799
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 09:59:19
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

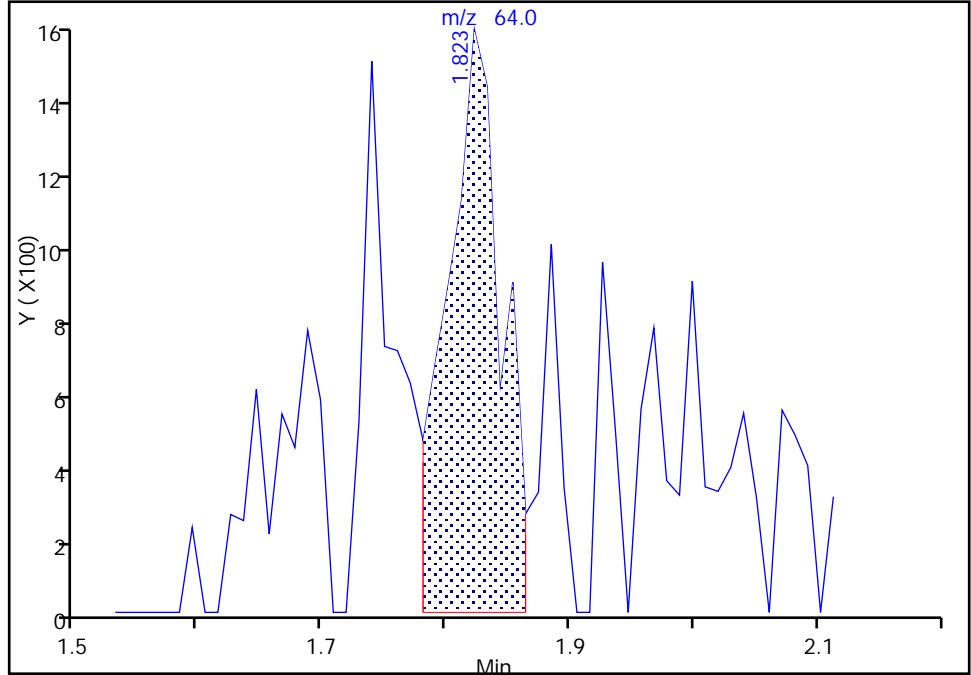
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

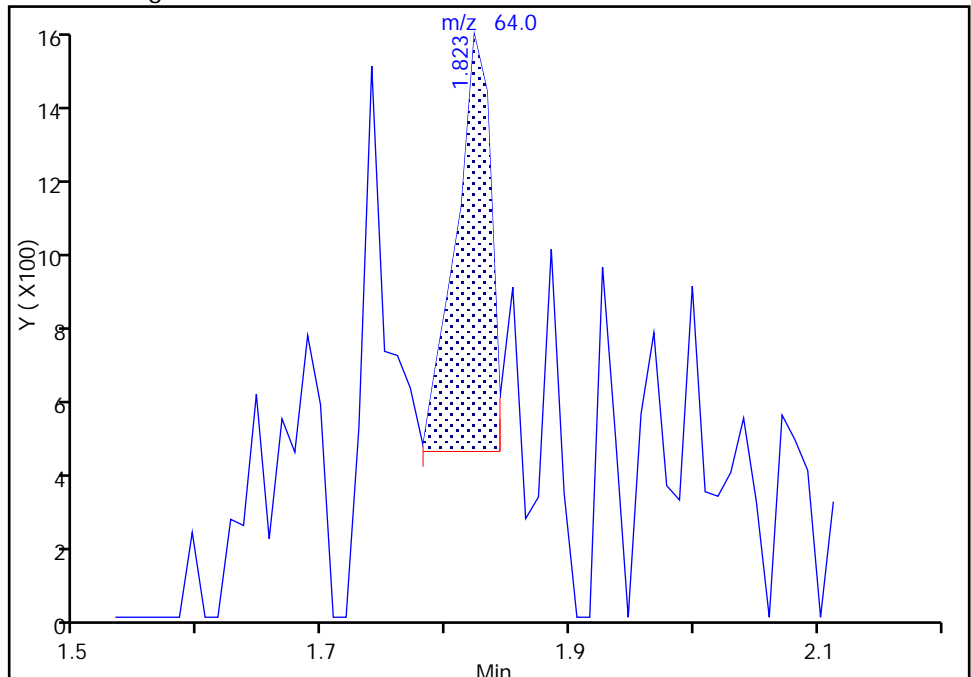
RT: 1.82
Area: 4791
Amount: 0.759332
Amount Units: ug/L

Processing Integration Results



RT: 1.82
Area: 2186
Amount: 0.413758
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:00:06
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

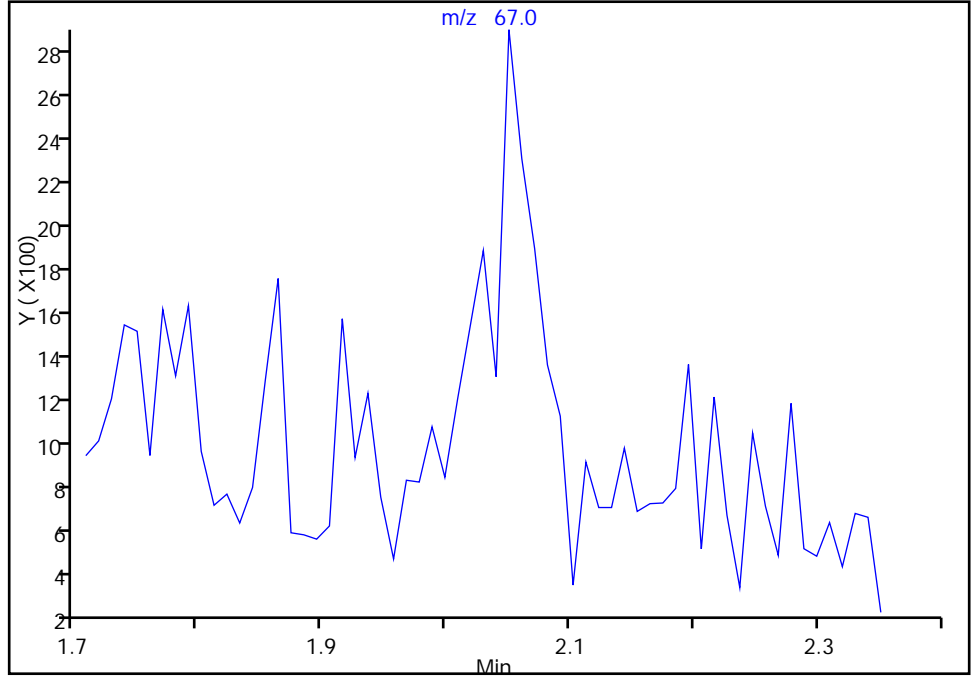
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Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

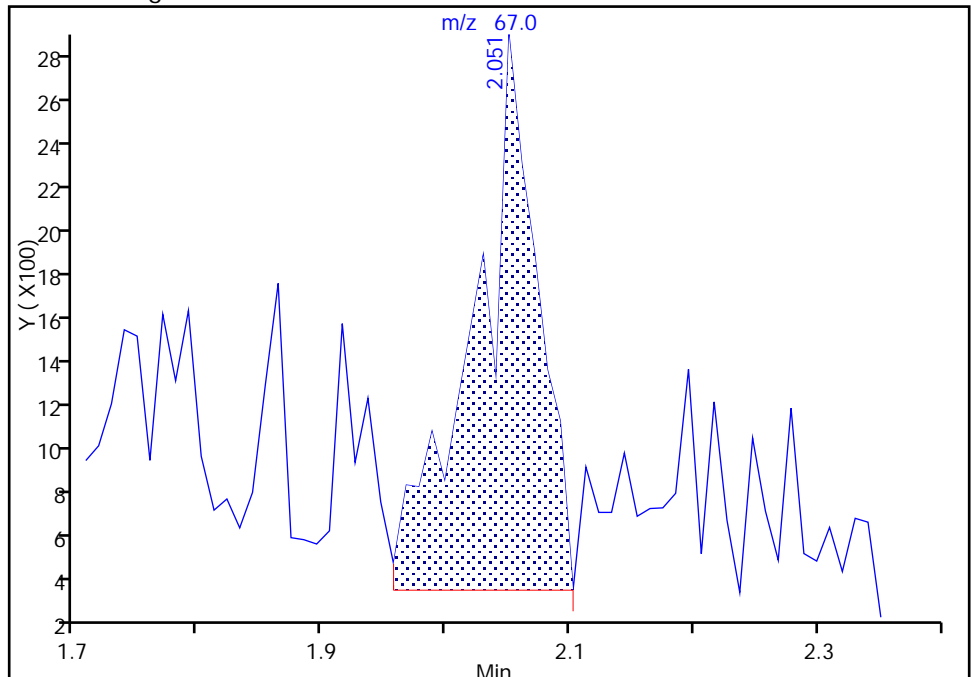
Not Detected
Expected RT: 2.07

Processing Integration Results



Manual Integration Results

RT: 2.05
Area: 8752
Amount: 0.358337
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:12:02
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

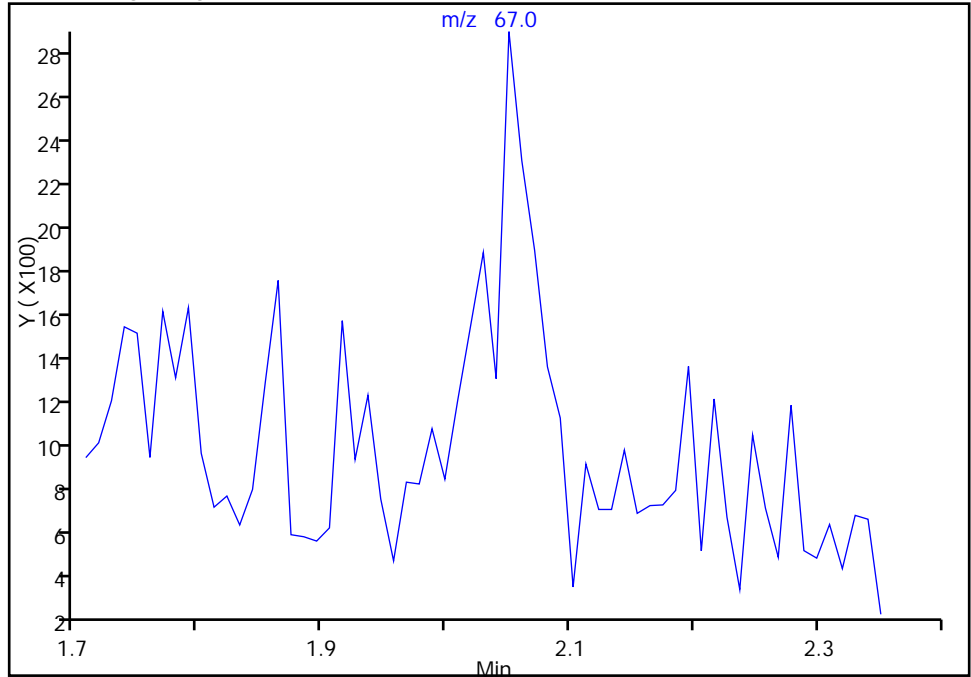
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

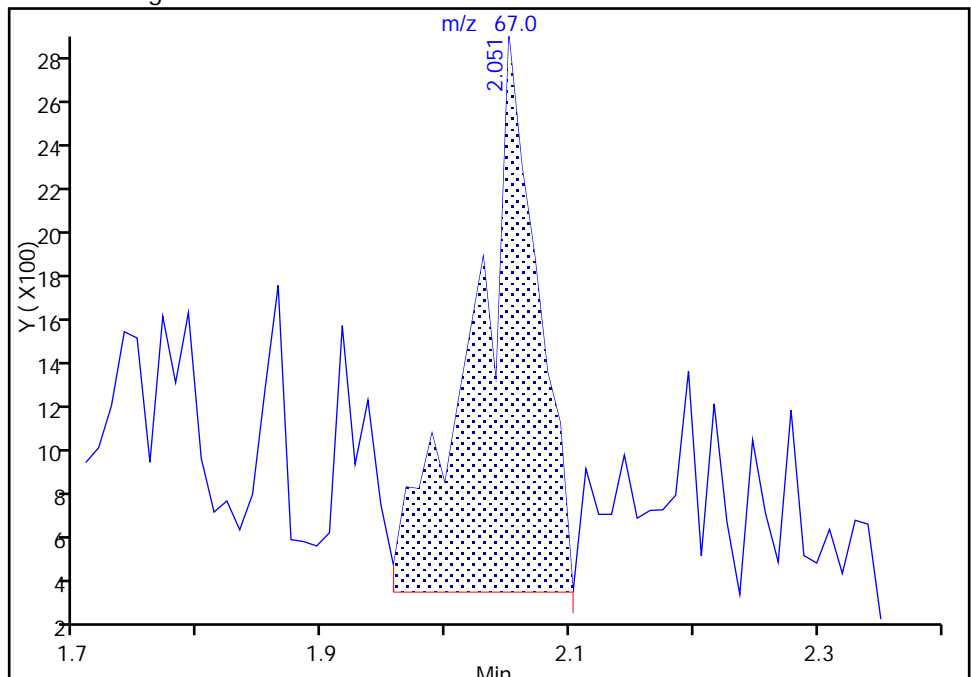
Not Detected
Expected RT: 2.07

Processing Integration Results



Manual Integration Results

RT: 2.05
Area: 8752
Amount: 0.358337
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:12:35

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo

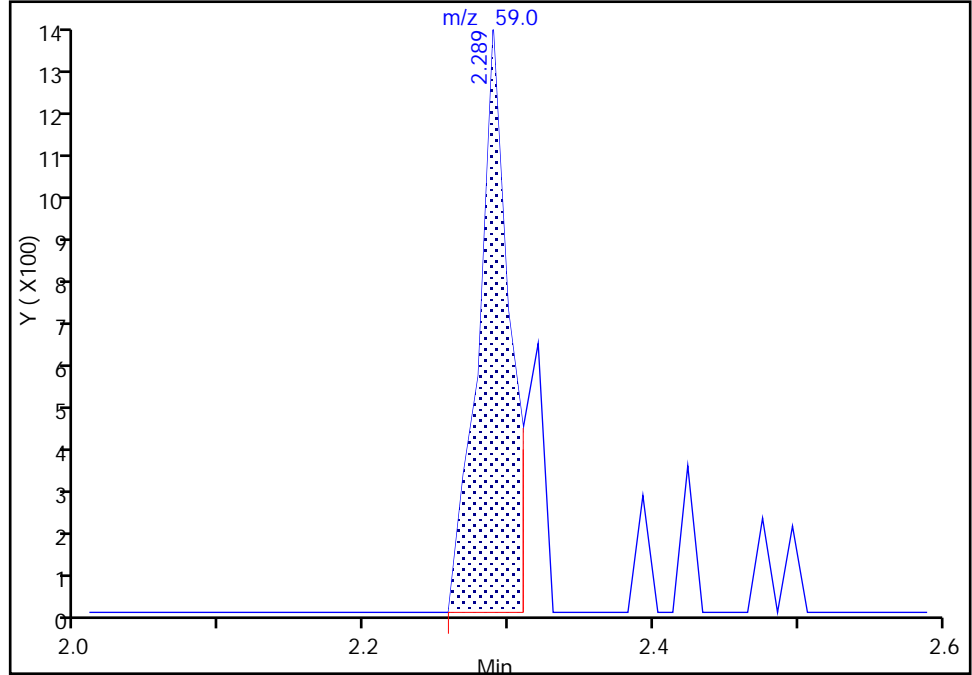
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Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

19 Ethyl ether, CAS: 60-29-7

Signal: 1

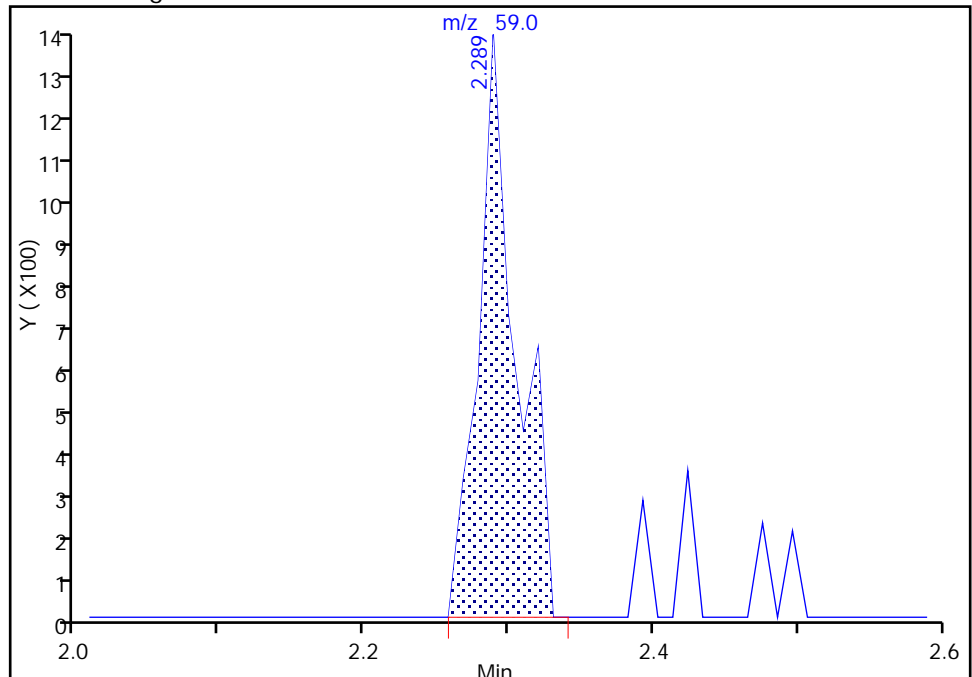
RT: 2.29
Area: 2144
Amount: 0.303887
Amount Units: ug/L

Processing Integration Results



RT: 2.29
Area: 2543
Amount: 0.351904
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:12:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

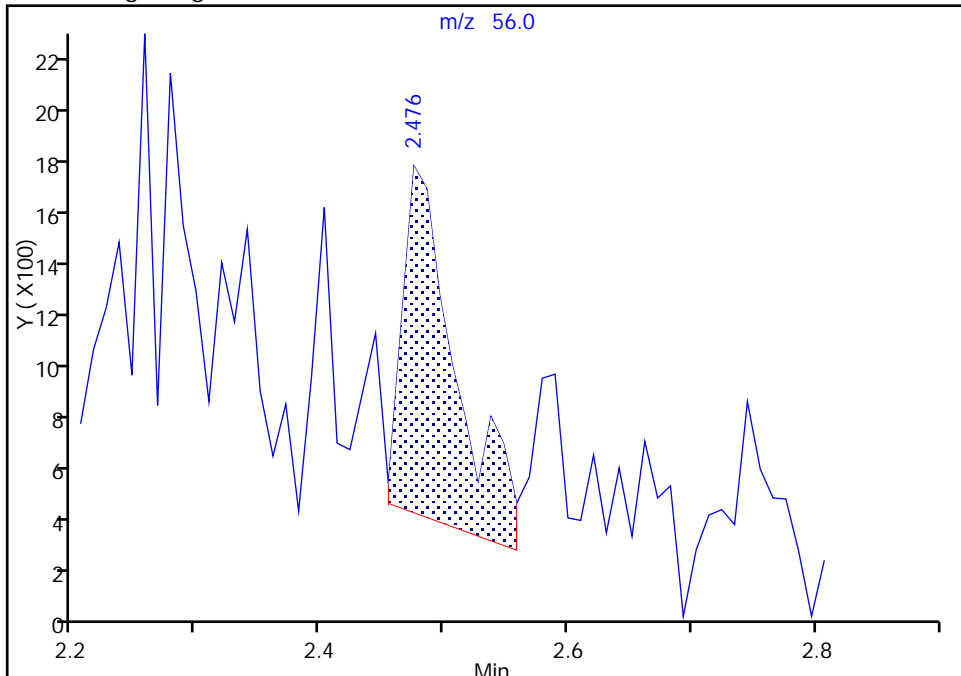
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Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 Acrolein, CAS: 107-02-8

Signal: 1

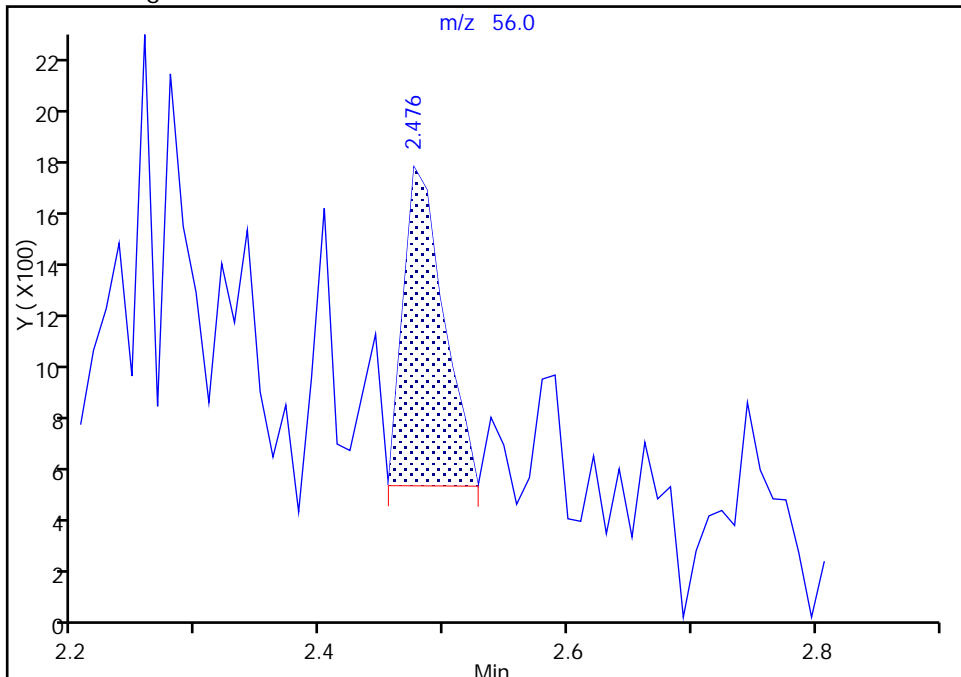
RT: 2.48
Area: 4099
Amount: 1.967871
Amount Units: ug/L

Processing Integration Results



RT: 2.48
Area: 2775
Amount: 2.379286
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:13:02
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

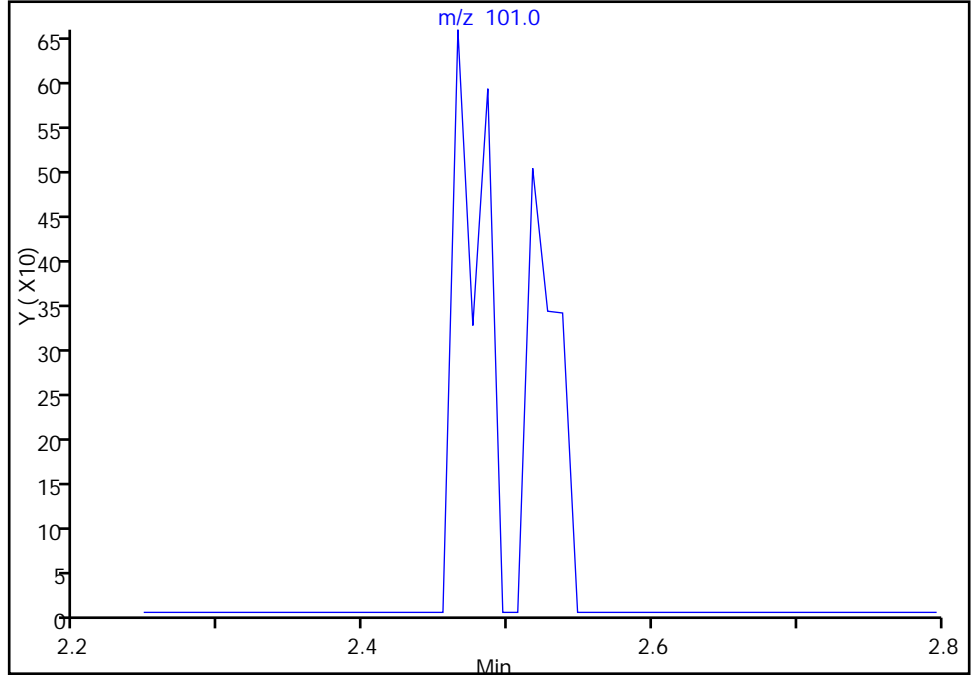
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

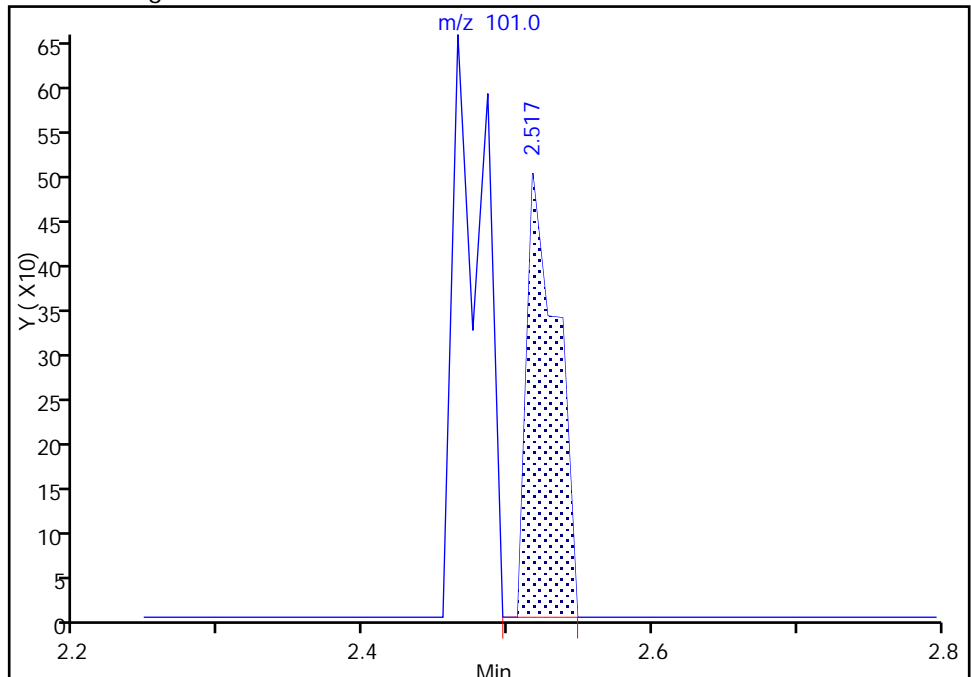
Not Detected
Expected RT: 2.53

Processing Integration Results



RT: 2.52
Area: 727
Amount: 0.111907
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:13:18
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

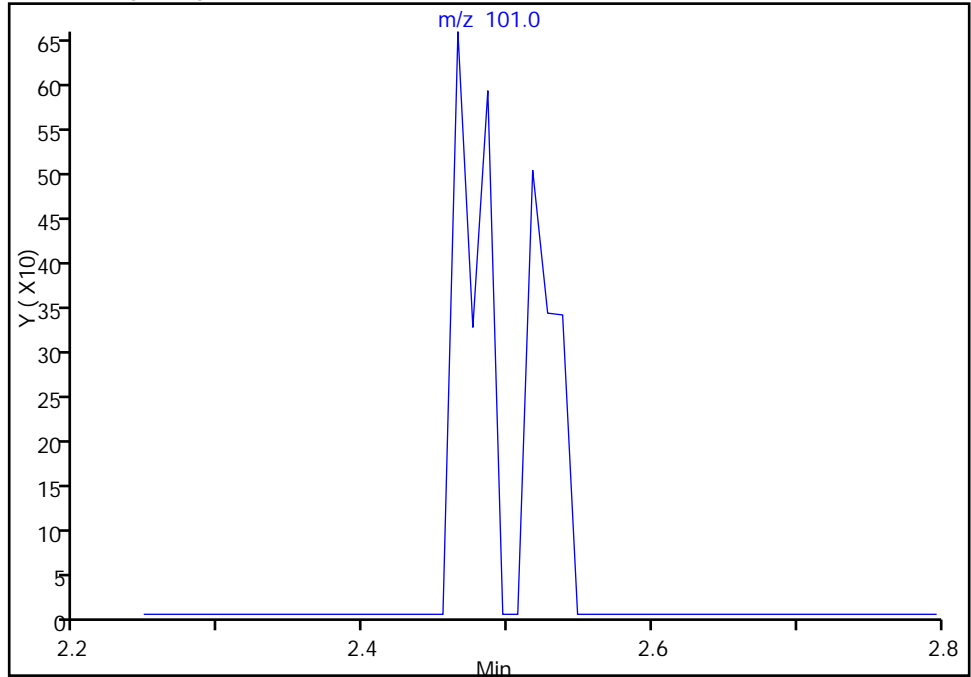
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

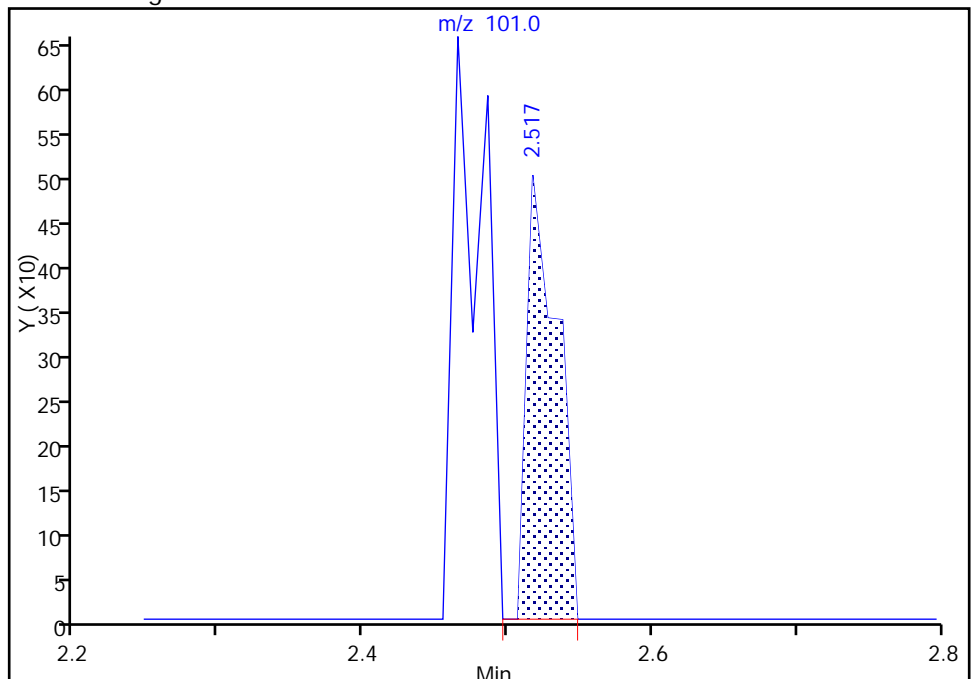
Not Detected
Expected RT: 2.53

Processing Integration Results



RT: 2.52
Area: 727
Amount: 0.111907
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:13:22

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

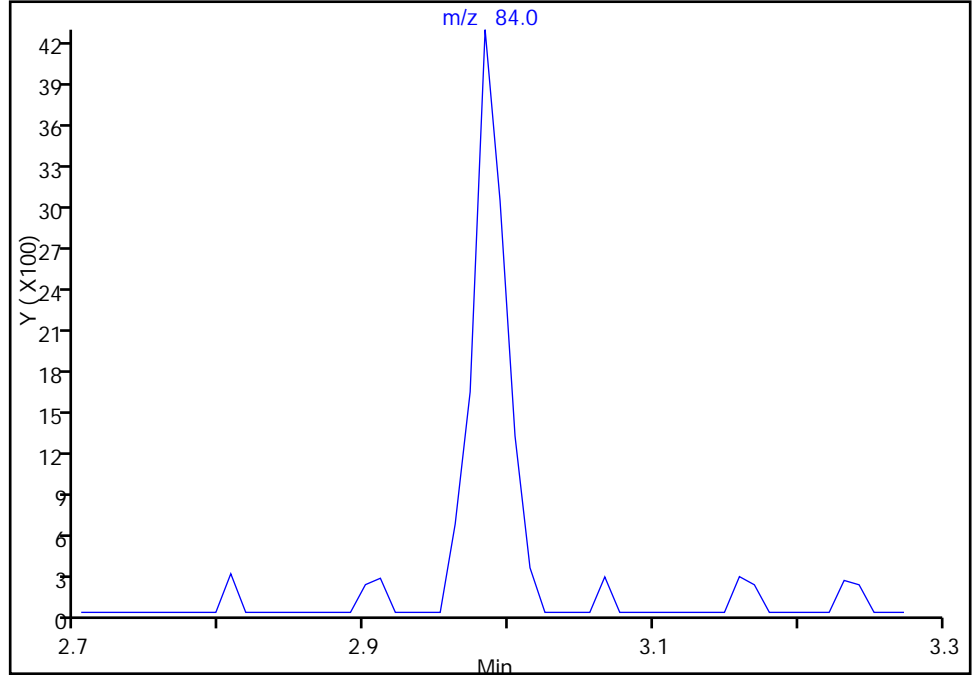
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

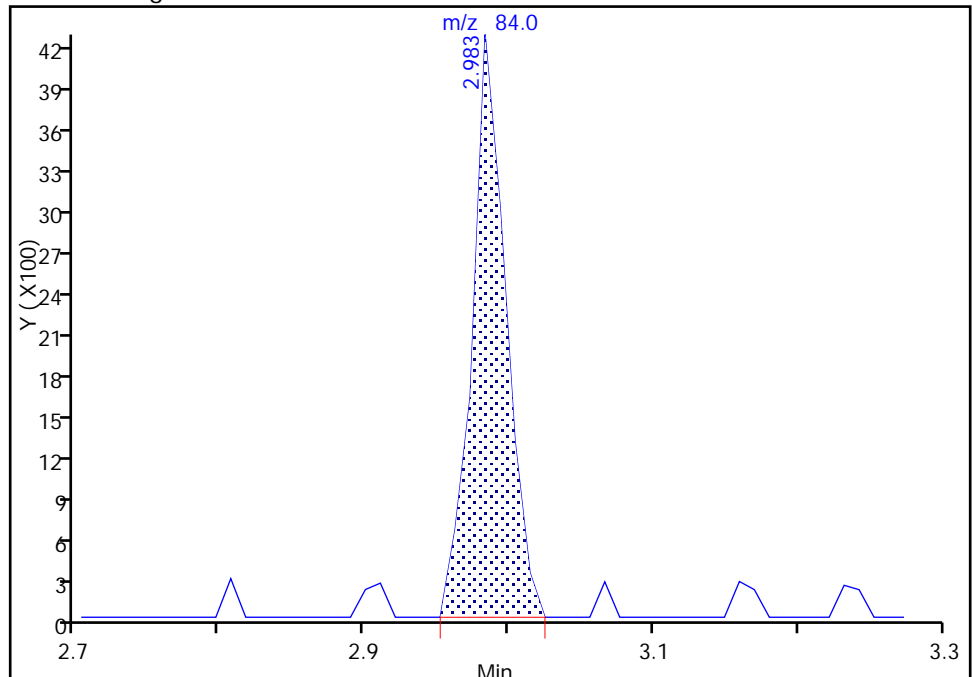
Not Detected
Expected RT: 2.98

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 6942
Amount: 0.398023
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:14:31
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

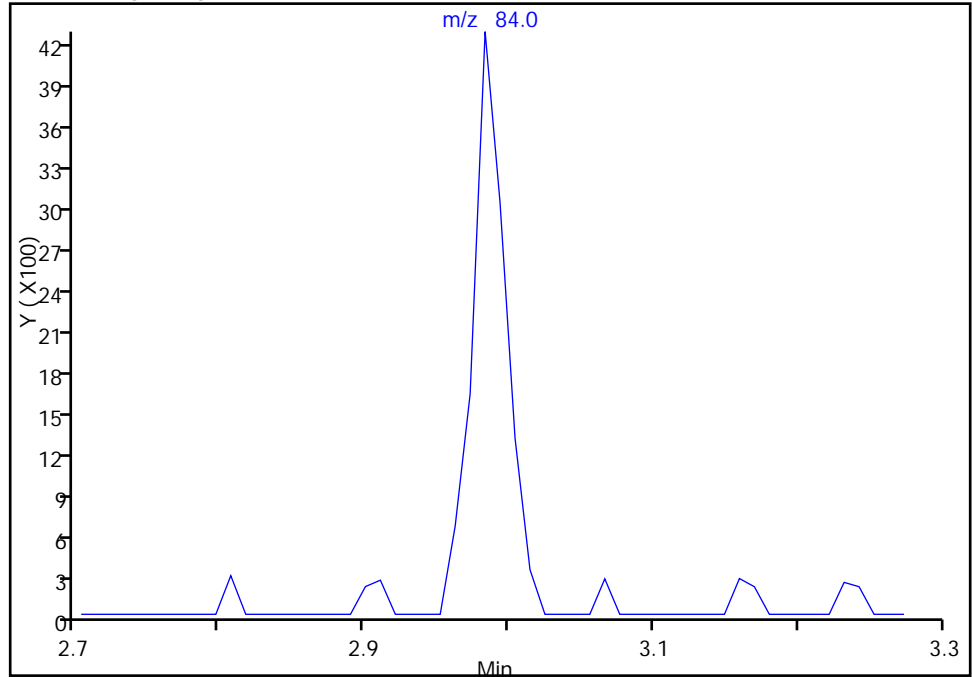
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

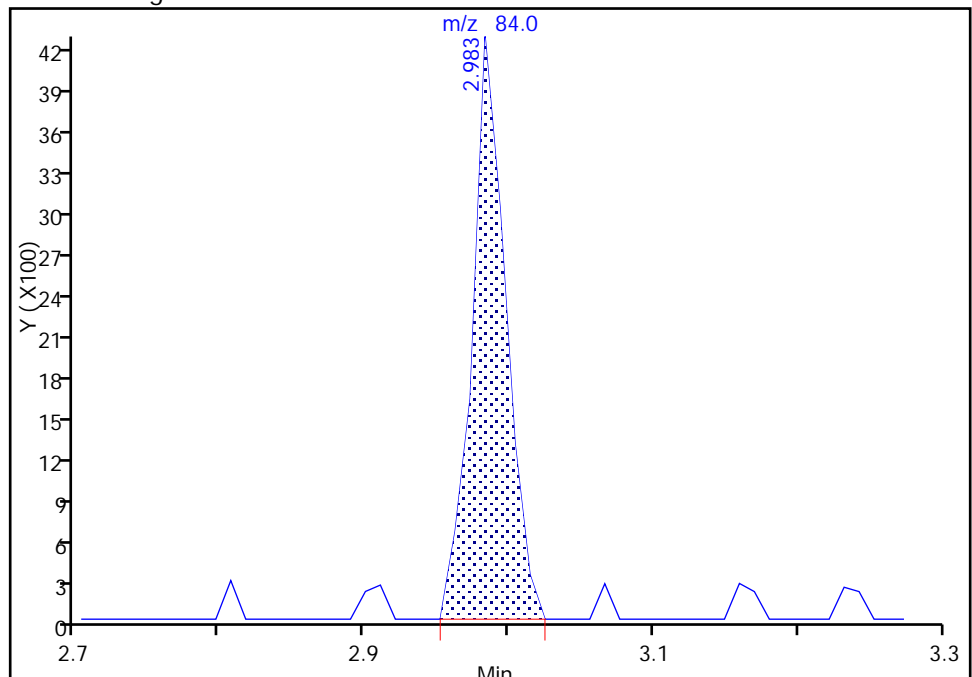
Not Detected
Expected RT: 2.98

Processing Integration Results



Manual Integration Results

RT: 2.98
Area: 6942
Amount: 0.398023
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:14:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

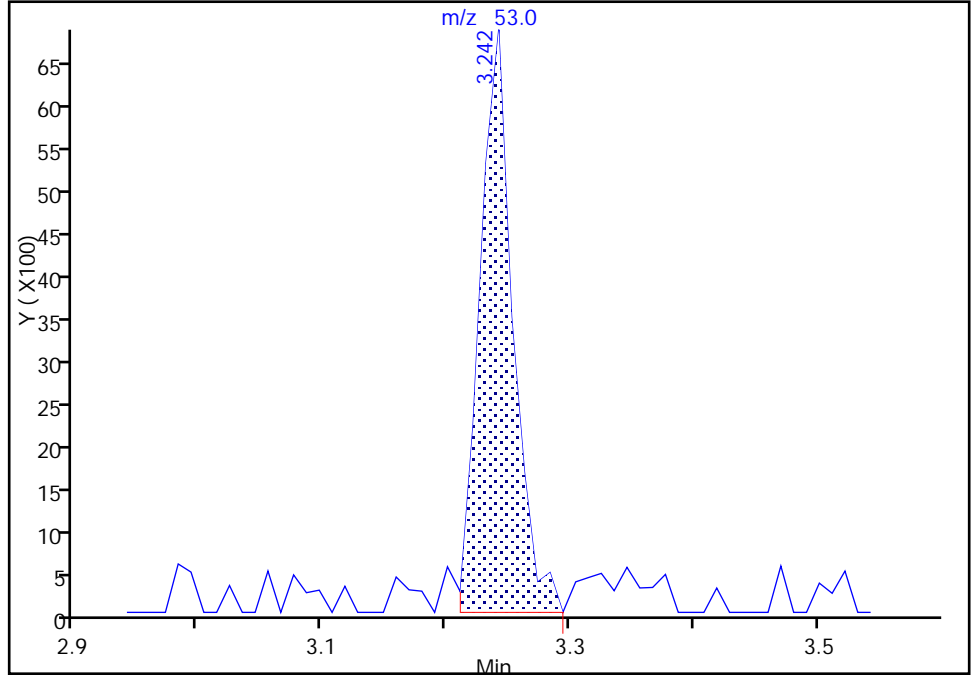
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

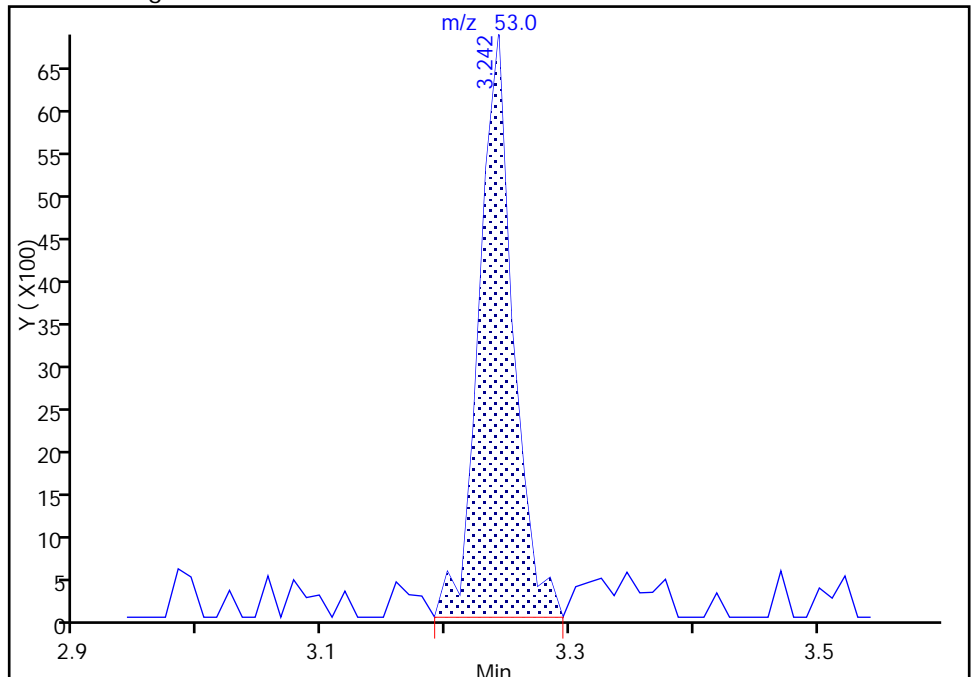
RT: 3.24
Area: 12803
Amount: 4.061102
Amount Units: ug/L

Processing Integration Results



RT: 3.24
Area: 13139
Amount: 4.153846
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:15:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

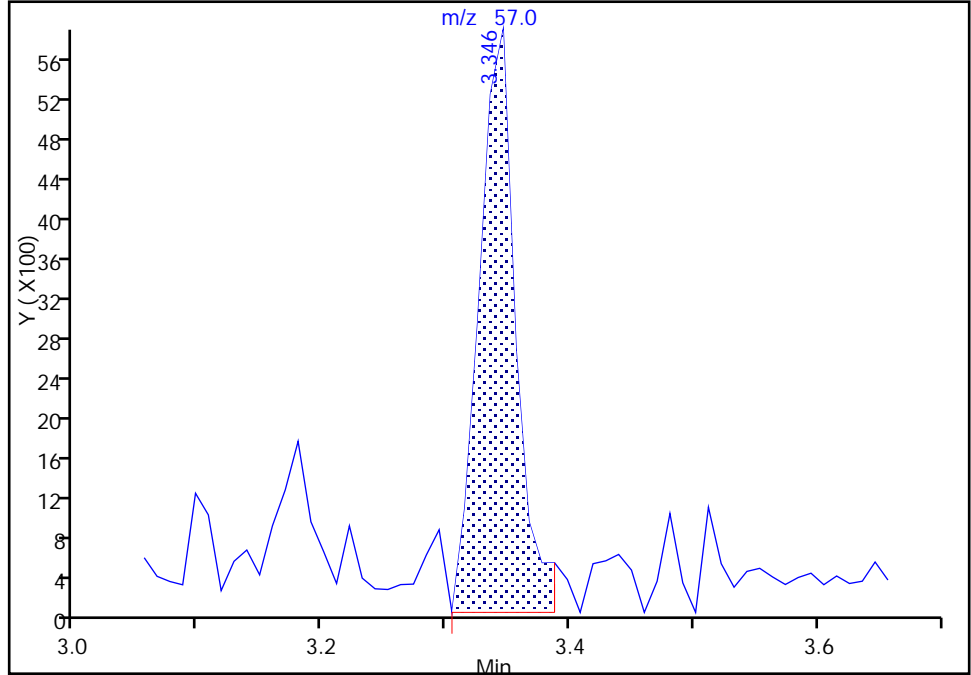
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

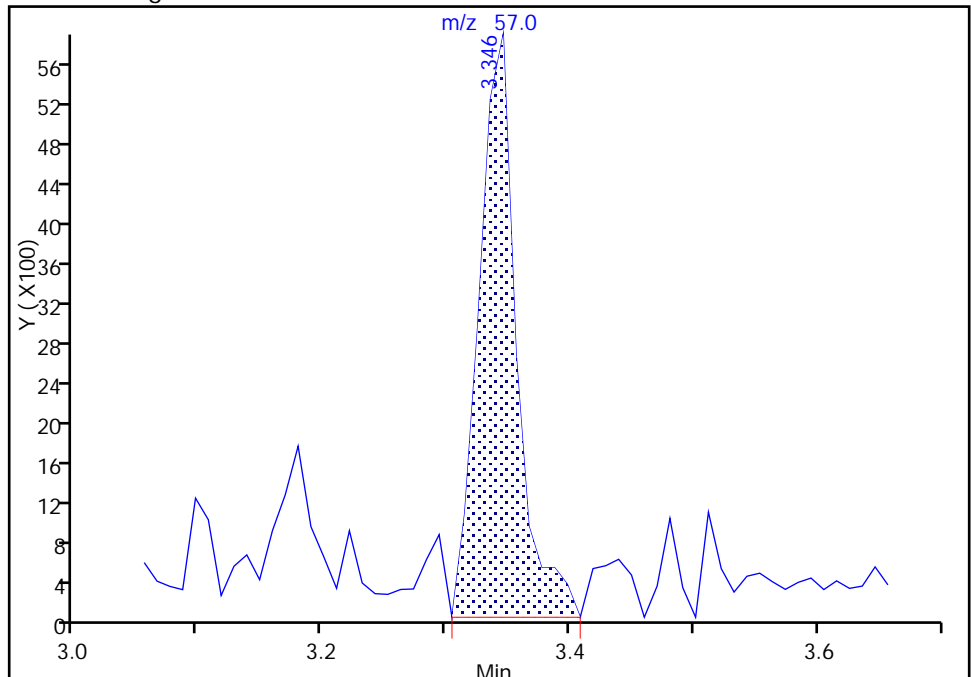
RT: 3.35
Area: 12126
Amount: 0.726704
Amount Units: ug/L

Processing Integration Results



RT: 3.35
Area: 12332
Amount: 0.857985
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:15:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

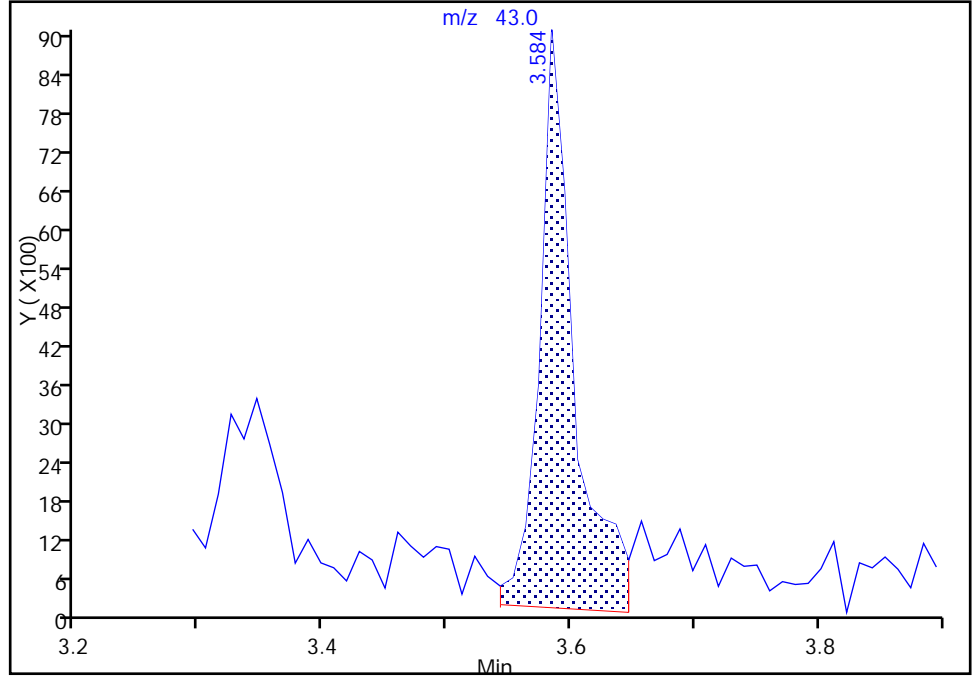
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

39 Vinyl acetate, CAS: 108-05-4

Signal: 1

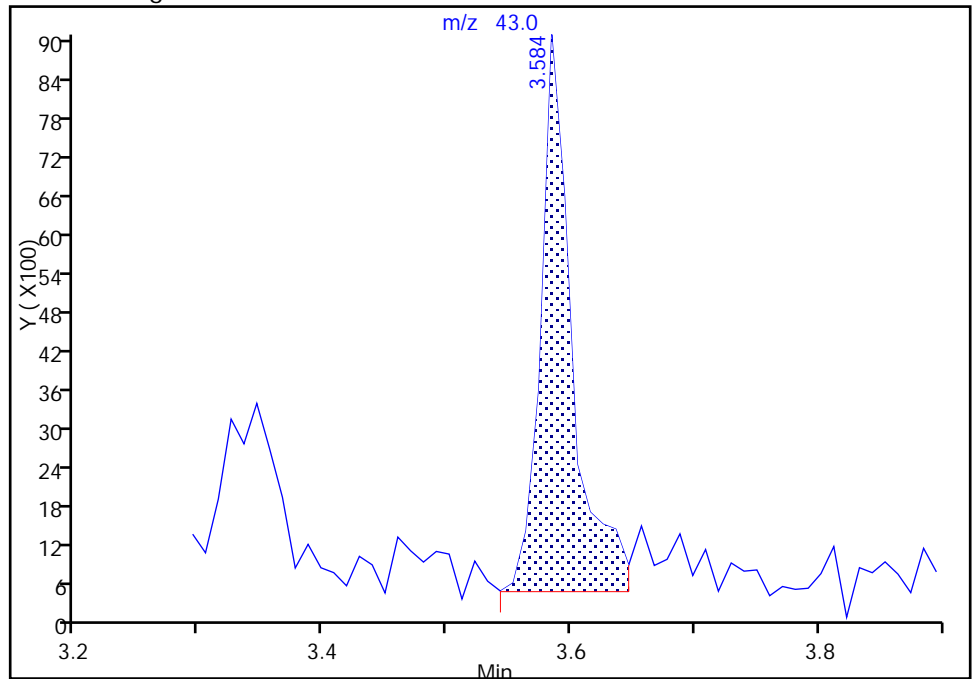
RT: 3.58
Area: 17638
Amount: 0.841618
Amount Units: ug/L

Processing Integration Results



RT: 3.58
Area: 15333
Amount: 0.744426
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:16:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

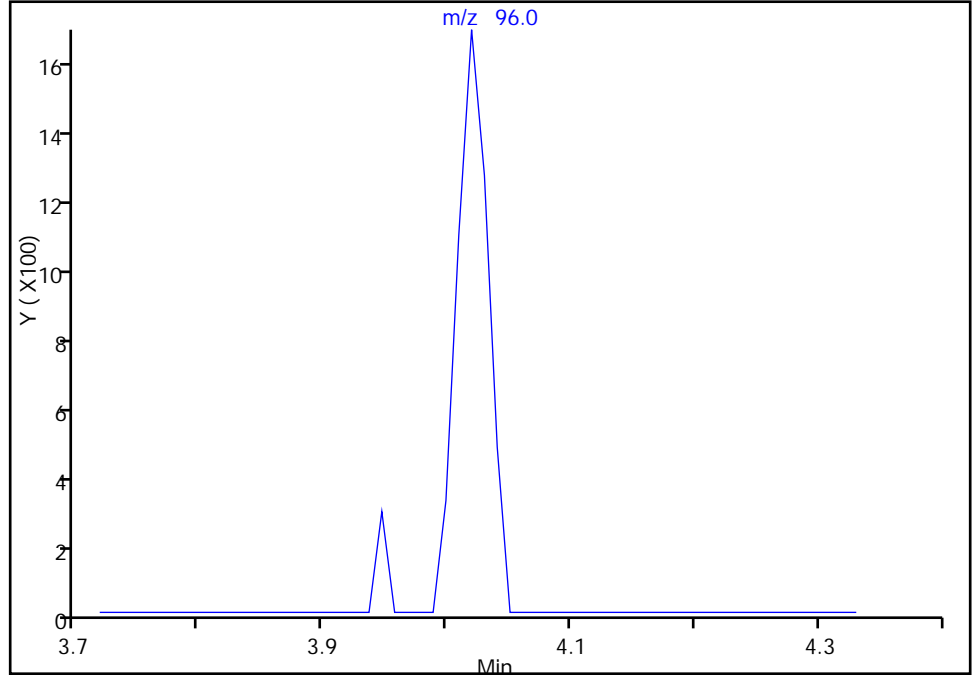
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

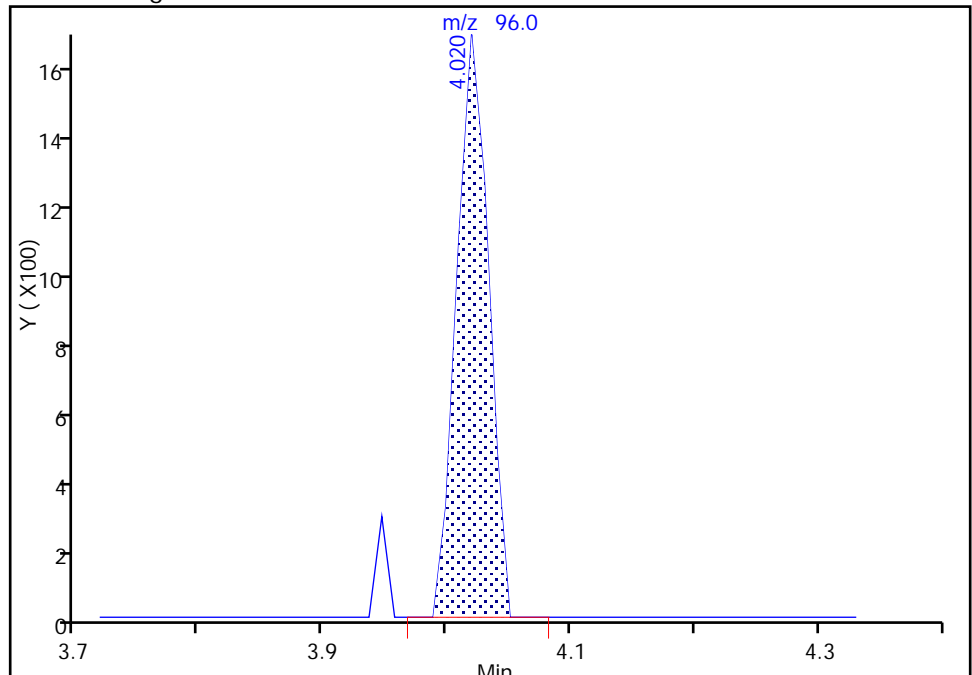
Not Detected
Expected RT: 4.02

Processing Integration Results



Manual Integration Results

RT: 4.02
Area: 2903
Amount: 0.355884
Amount Units: ug/L



TestAmerica Buffalo

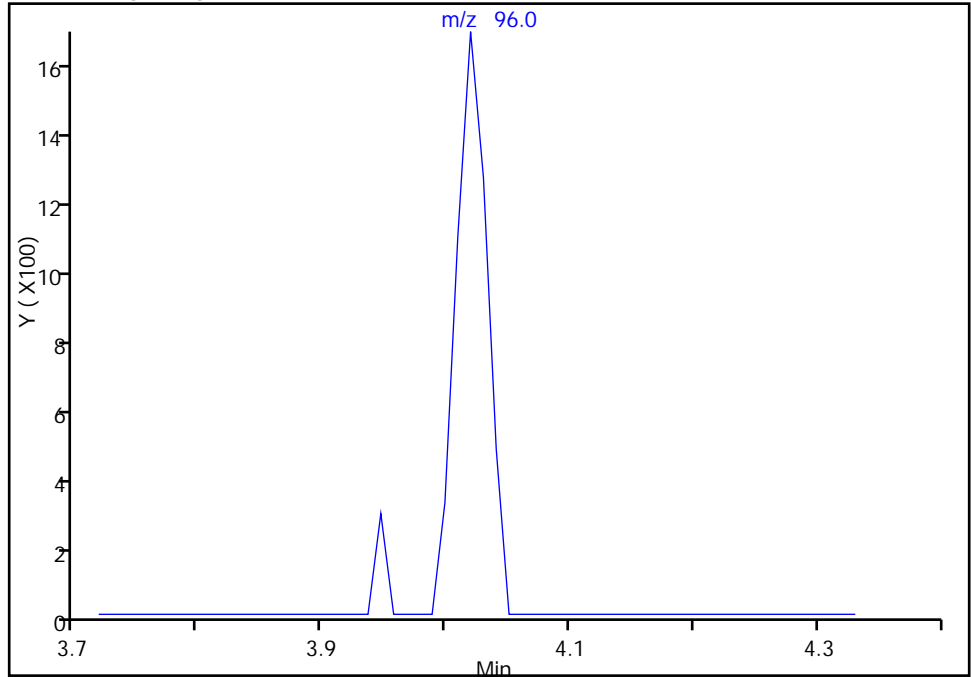
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

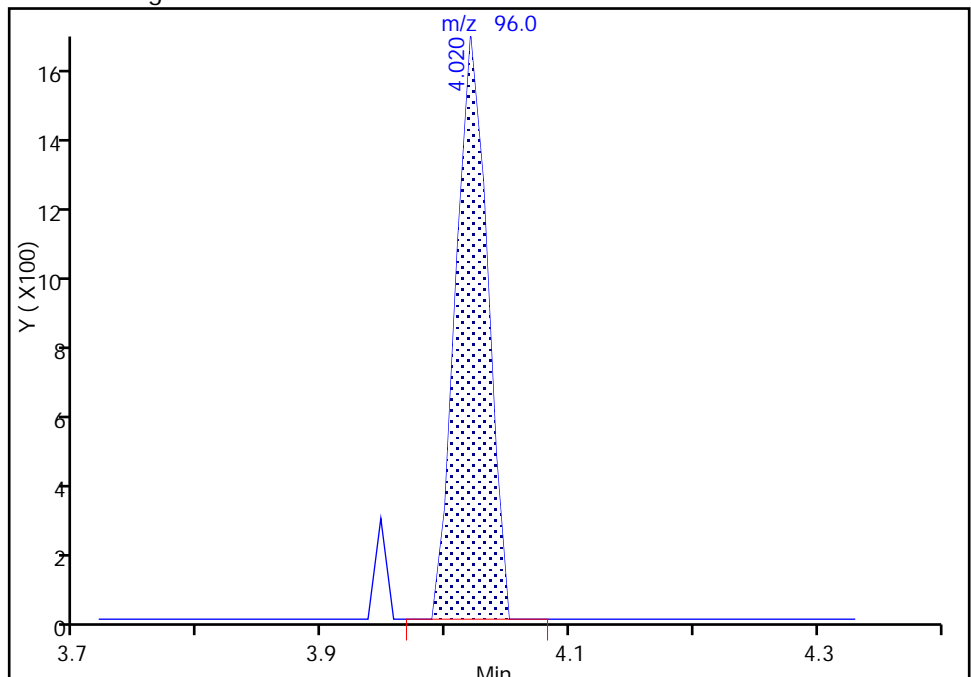
Not Detected
Expected RT: 4.02

Processing Integration Results



Manual Integration Results

RT: 4.02
Area: 2903
Amount: 0.355884
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:16:25

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

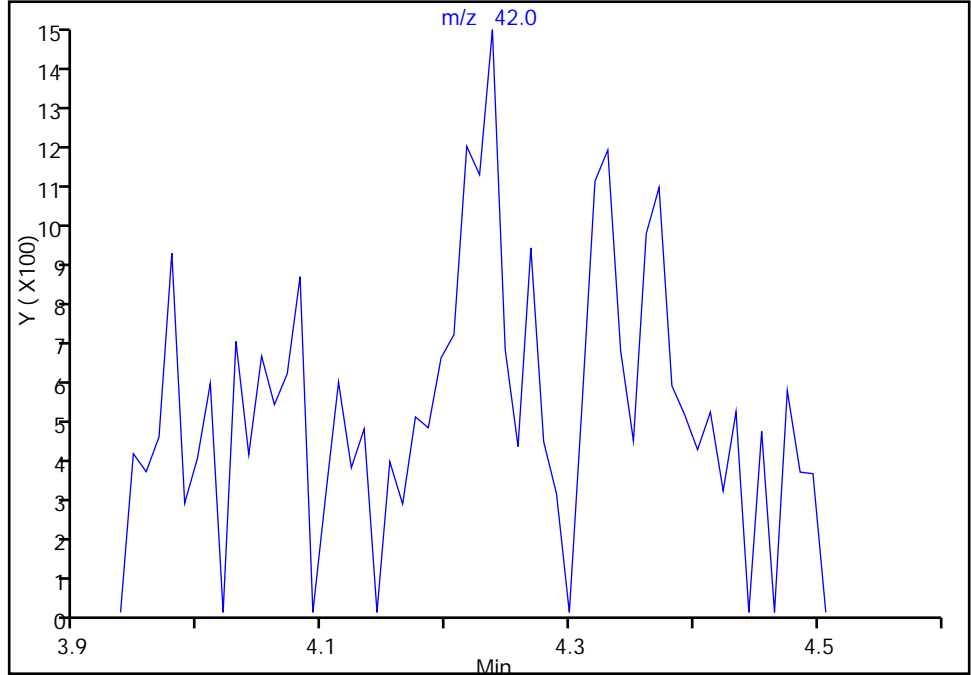
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

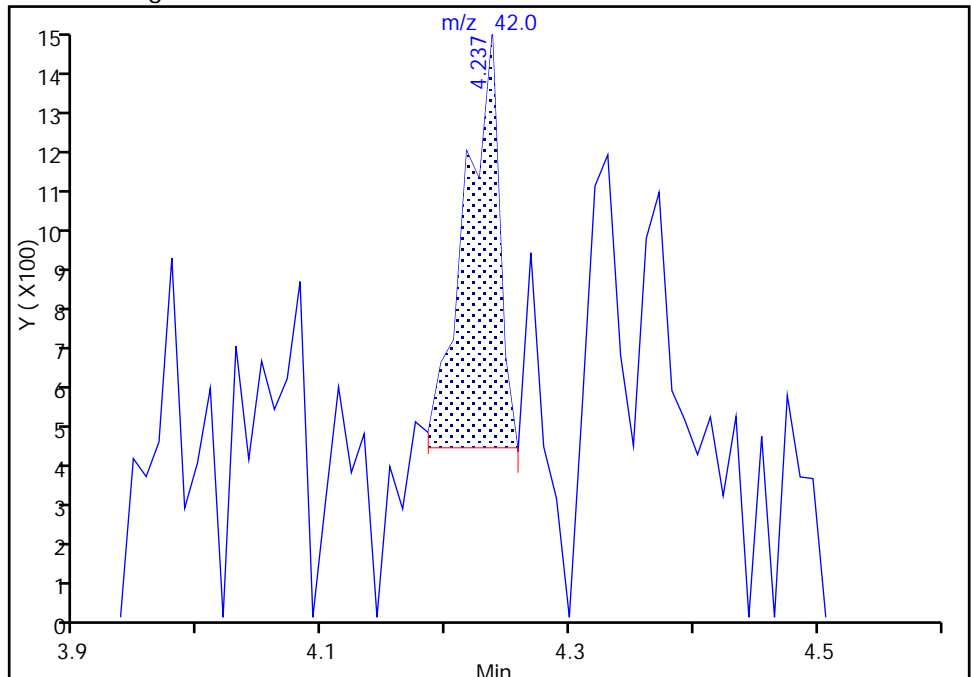
Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 1986
Amount: 0.723626
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:17:16
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

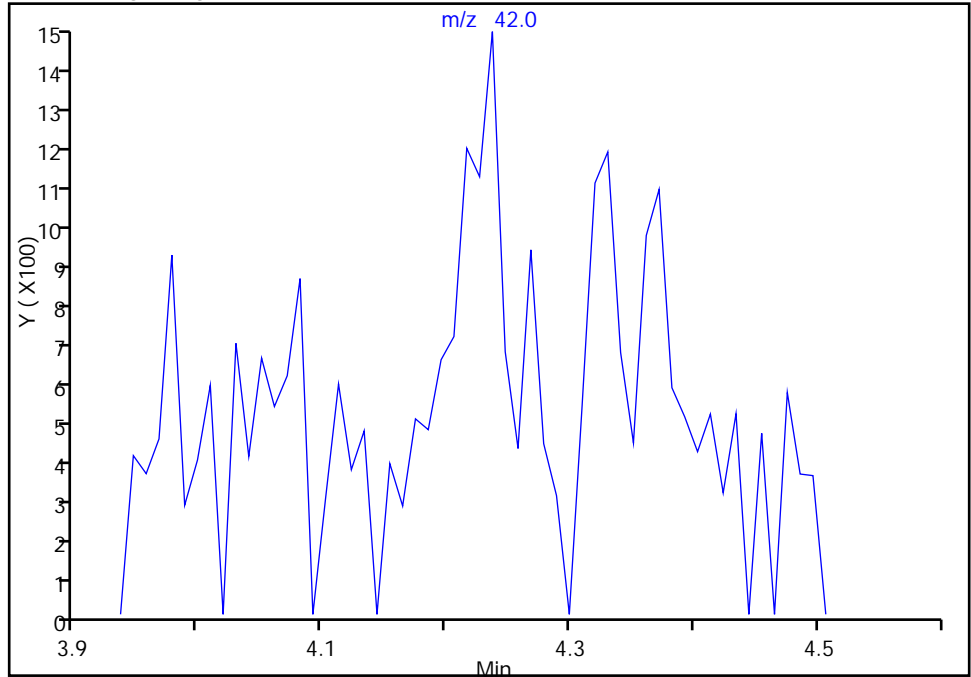
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

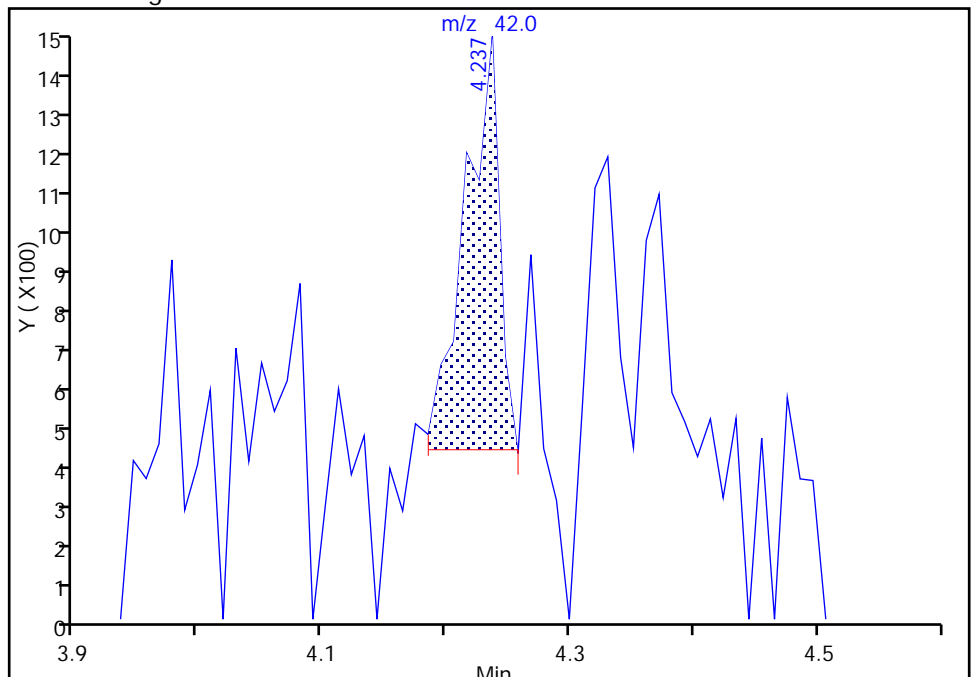
Not Detected
Expected RT: 4.23

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 1986
Amount: 0.723626
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 09:11:22

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

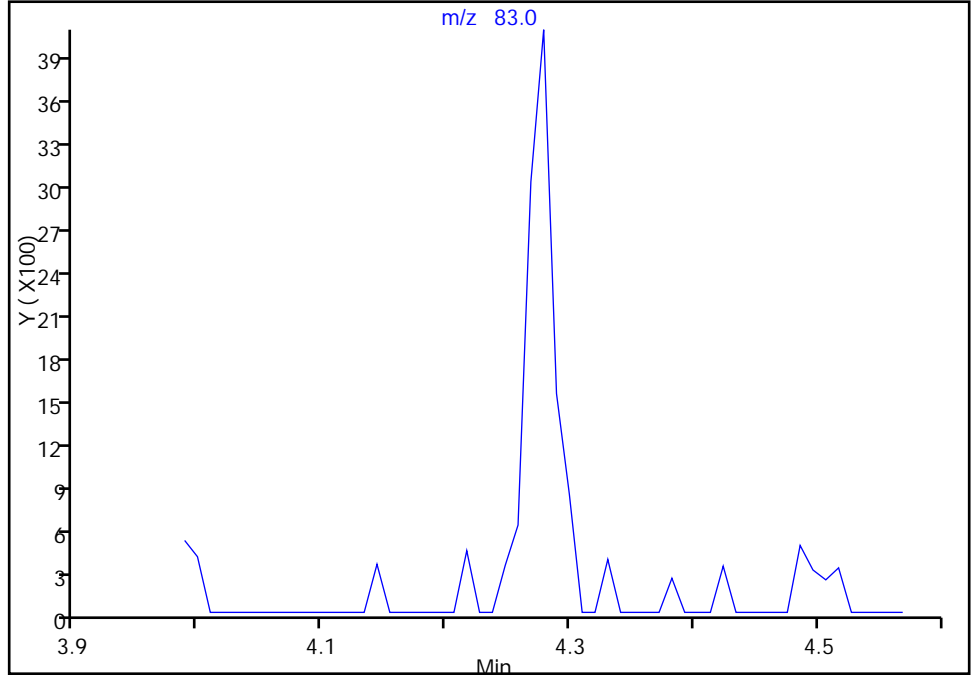
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

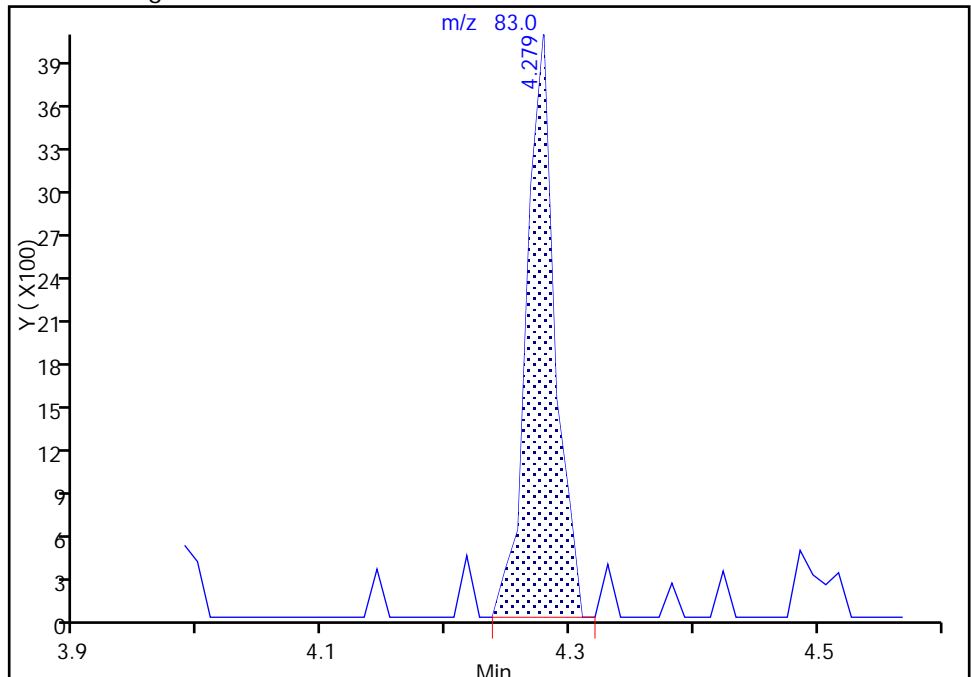
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 6469
Amount: 0.434480
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:17:40
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

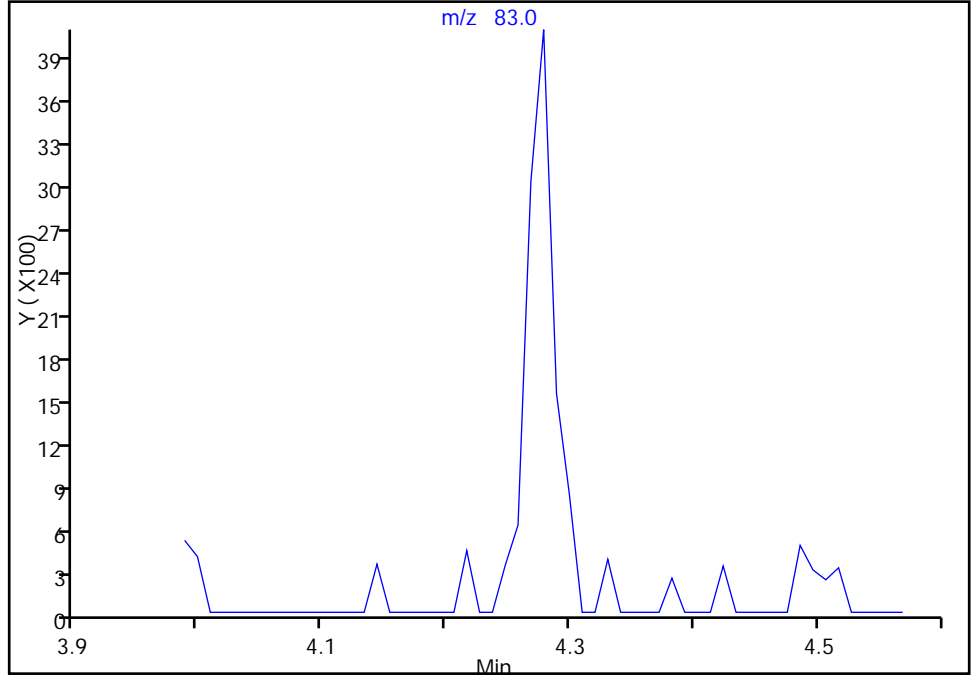
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

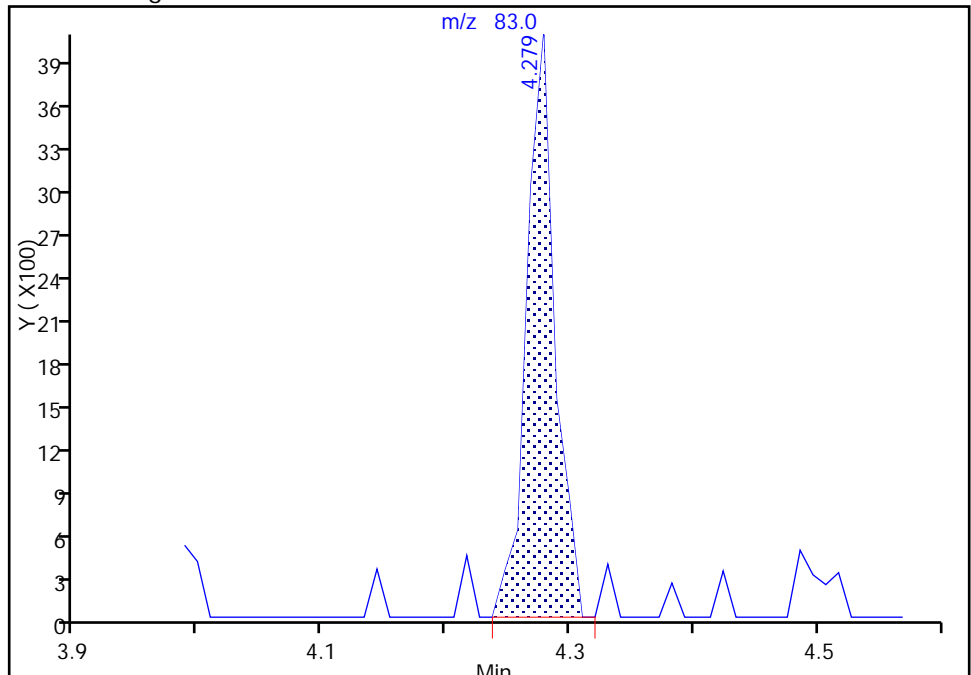
Not Detected
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 6469
Amount: 0.434480
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:17:42

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

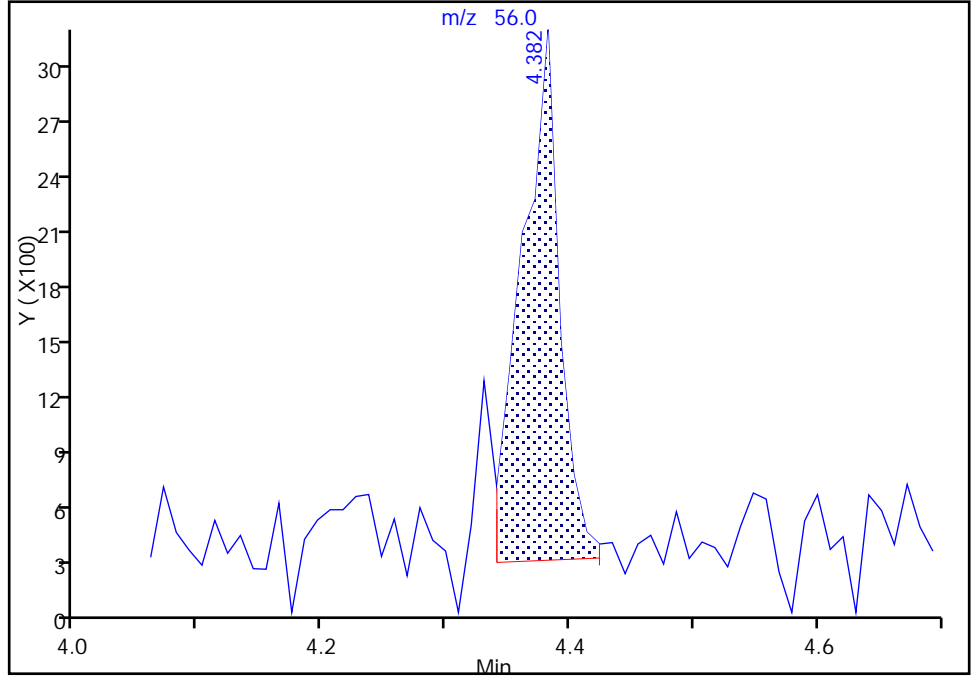
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

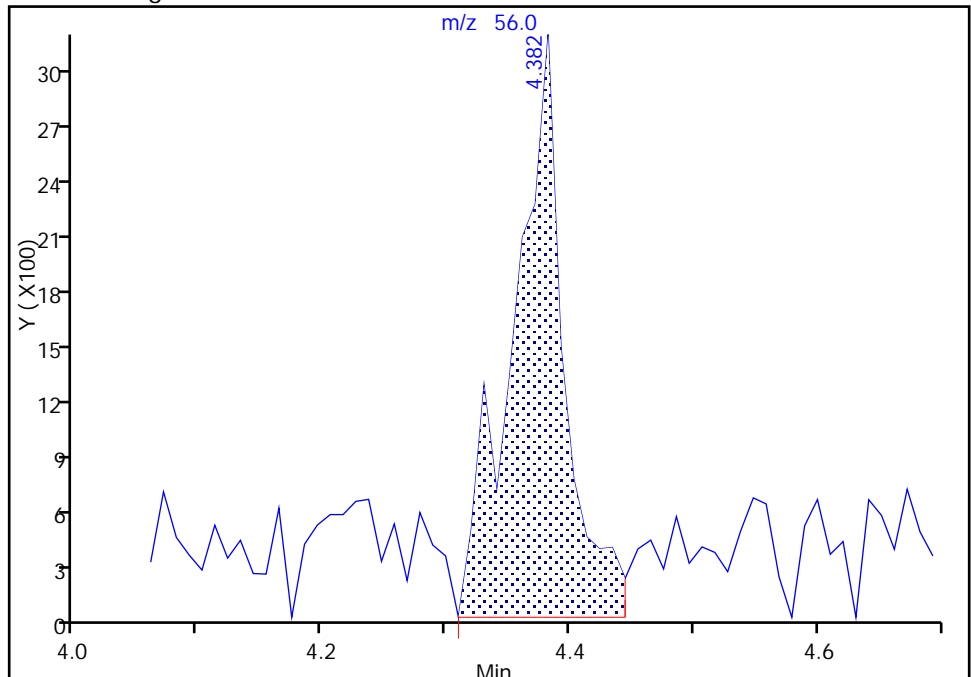
RT: 4.38
Area: 6196
Amount: 0.358872
Amount Units: ug/L

Processing Integration Results



RT: 4.38
Area: 9233
Amount: 0.531382
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:18:52
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

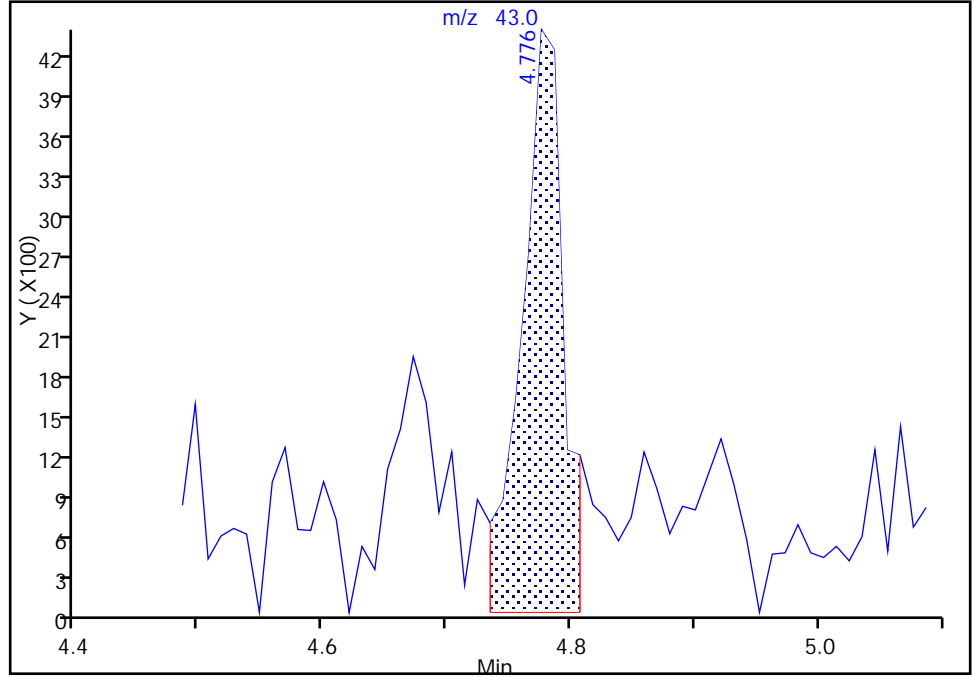
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

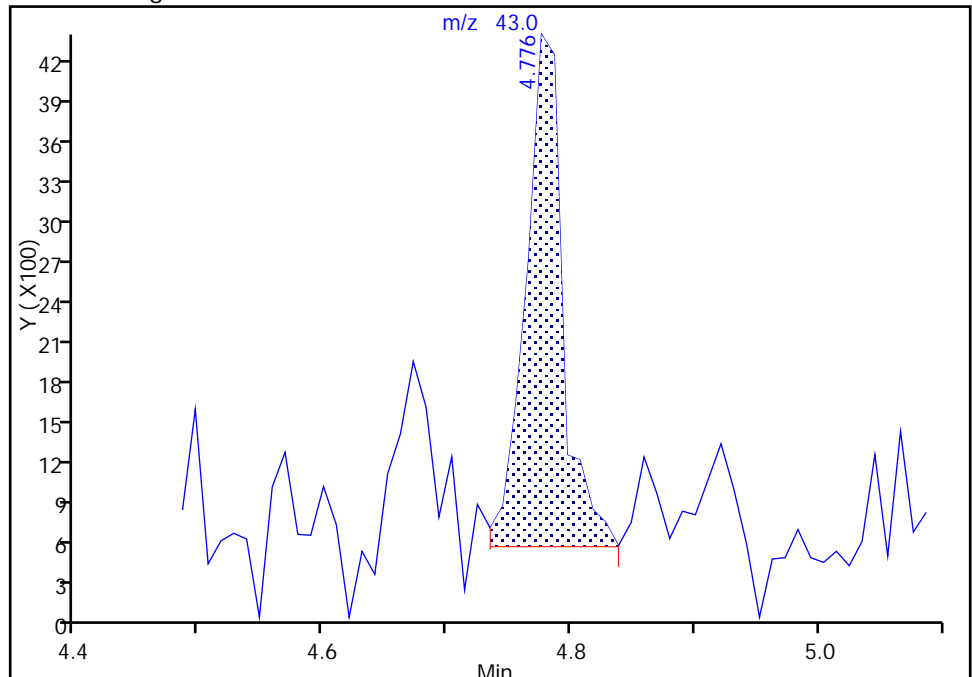
RT: 4.78
Area: 10437
Amount: 0.585766
Amount Units: ug/L

Processing Integration Results



RT: 4.78
Area: 8100
Amount: 0.477098
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:19:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

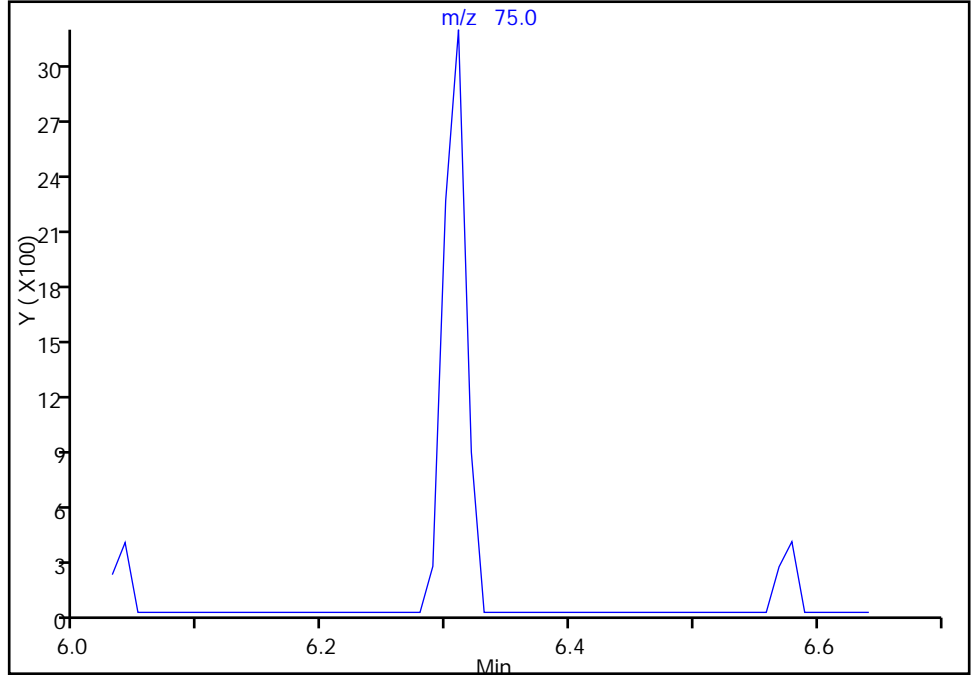
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

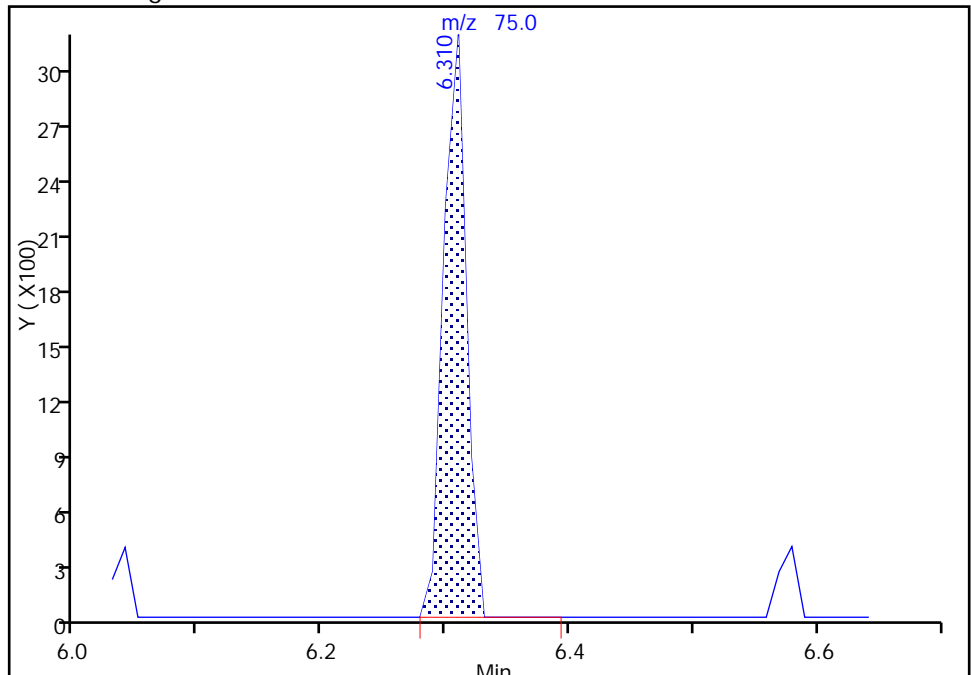
Not Detected
Expected RT: 6.31

Processing Integration Results



Manual Integration Results

RT: 6.31
Area: 4097
Amount: 0.366334
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:20:39
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

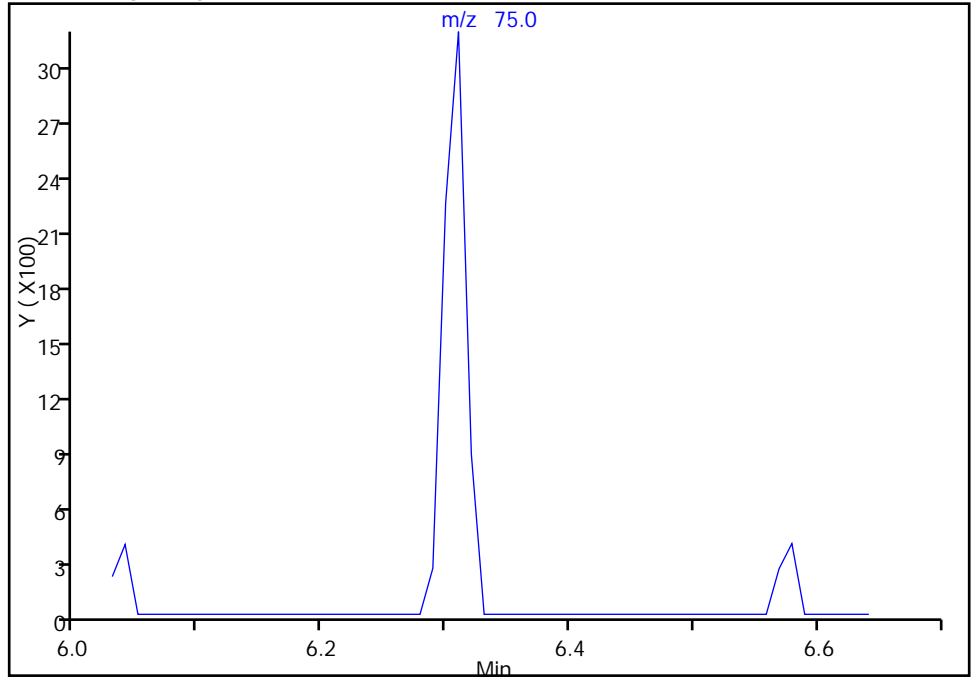
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

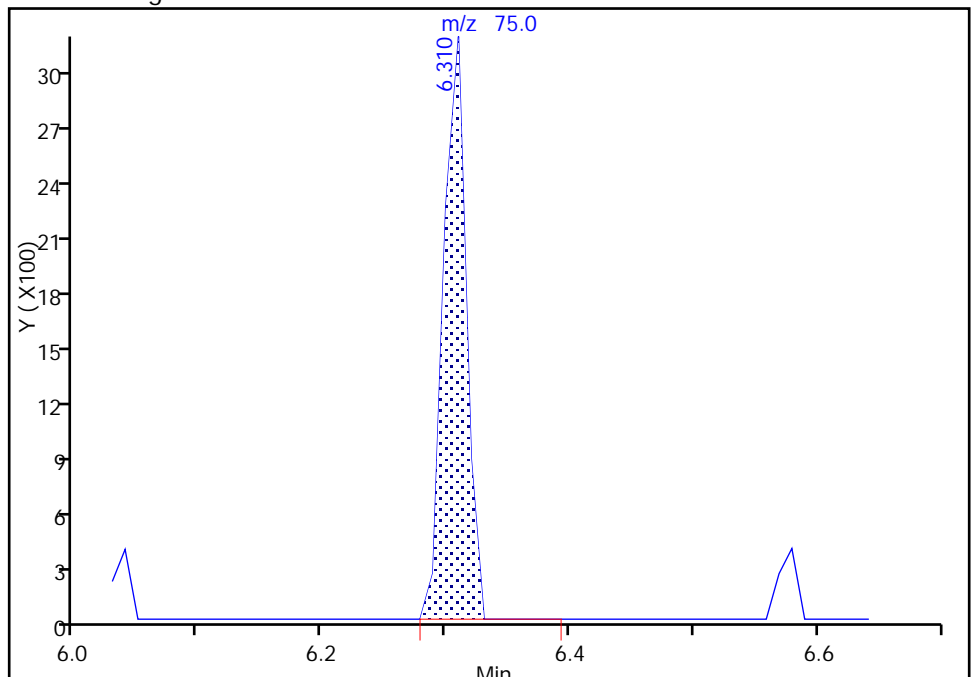
Not Detected
Expected RT: 6.31

Processing Integration Results



Manual Integration Results

RT: 6.31
Area: 4097
Amount: 0.366334
Amount Units: ug/L



TestAmerica Buffalo

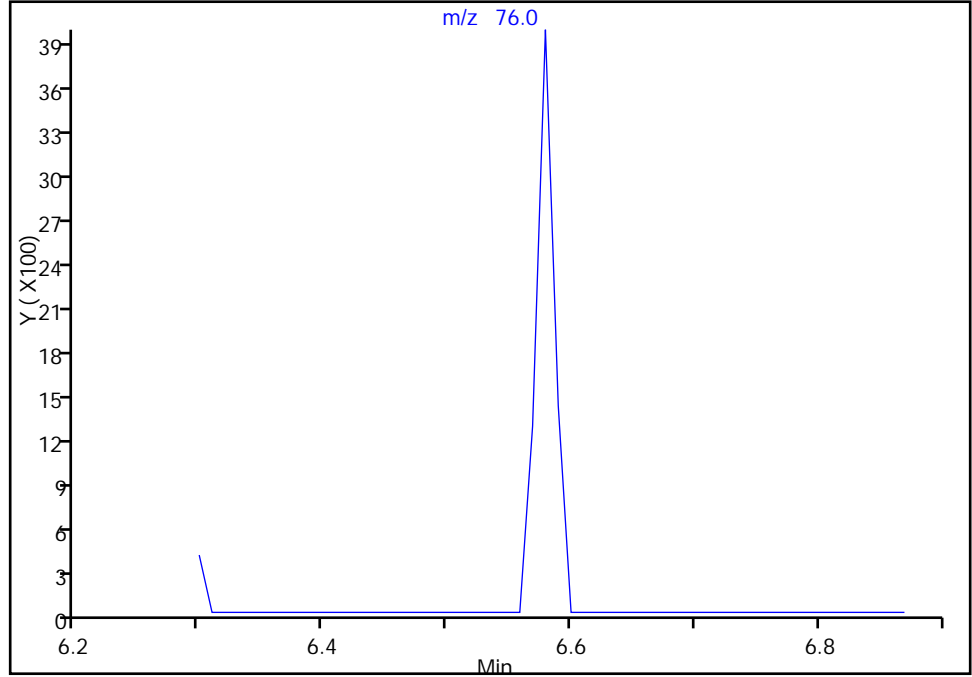
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

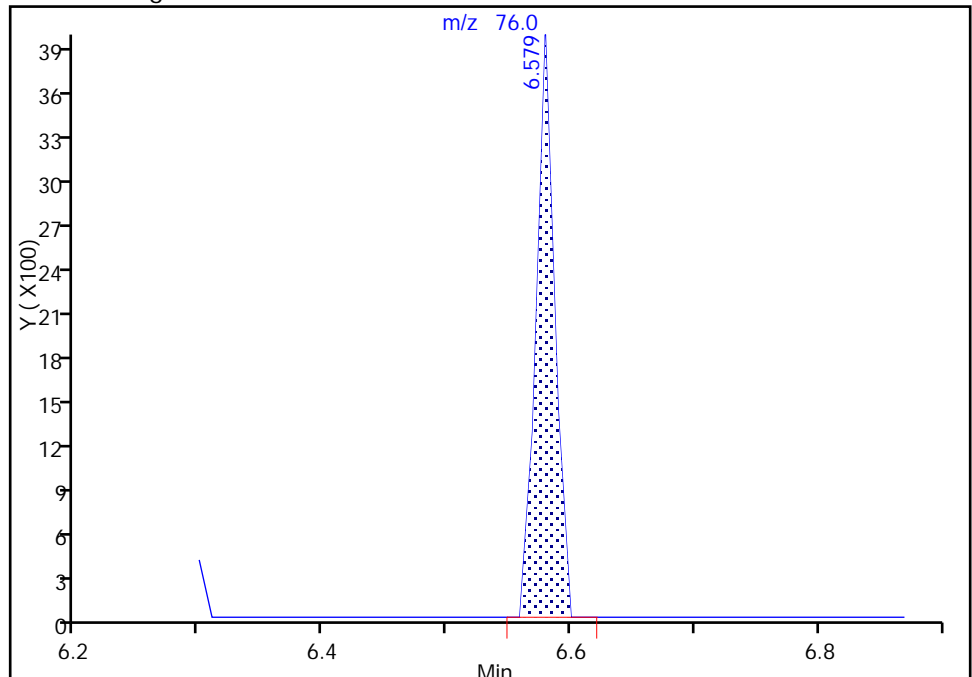
Not Detected
Expected RT: 6.58

Processing Integration Results



Manual Integration Results

RT: 6.58
Area: 4105
Amount: 0.386977
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:20:58
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

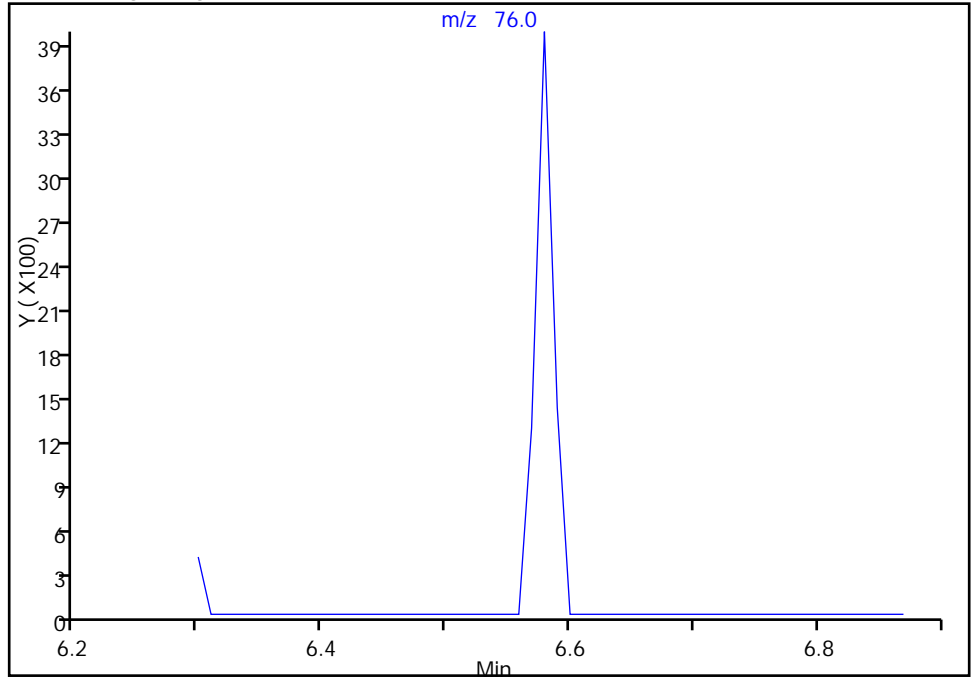
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

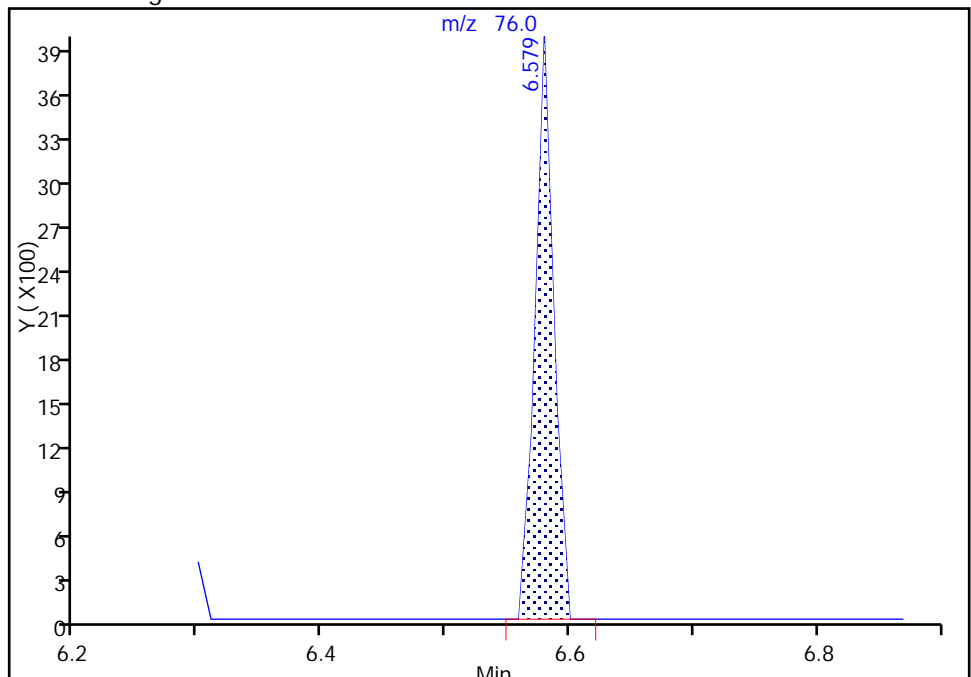
Not Detected
Expected RT: 6.58

Processing Integration Results



Manual Integration Results

RT: 6.58
Area: 4105
Amount: 0.386977
Amount Units: ug/L



TestAmerica Buffalo

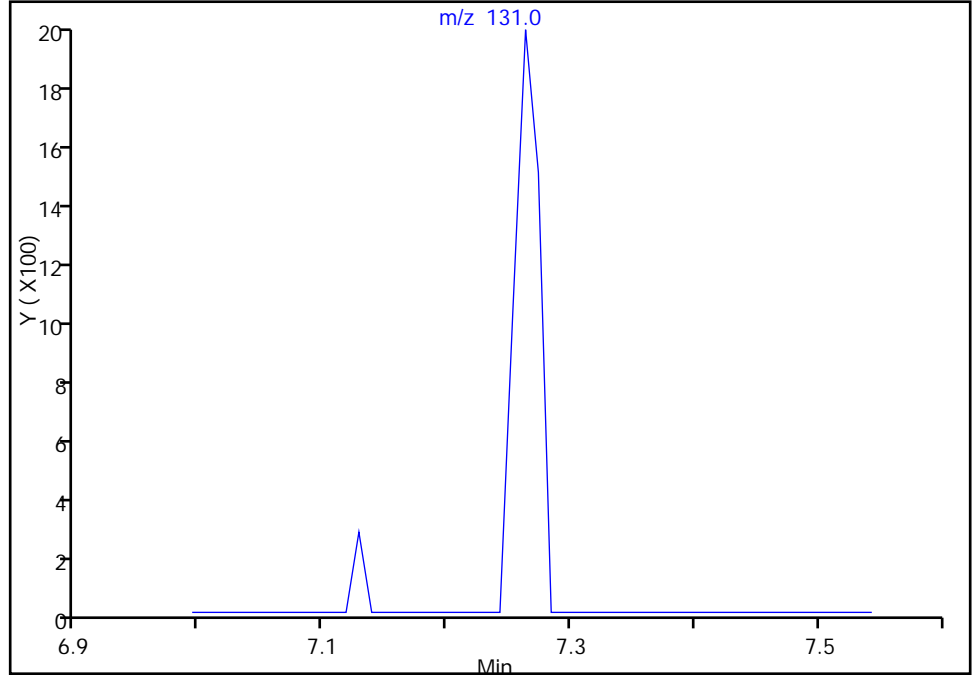
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

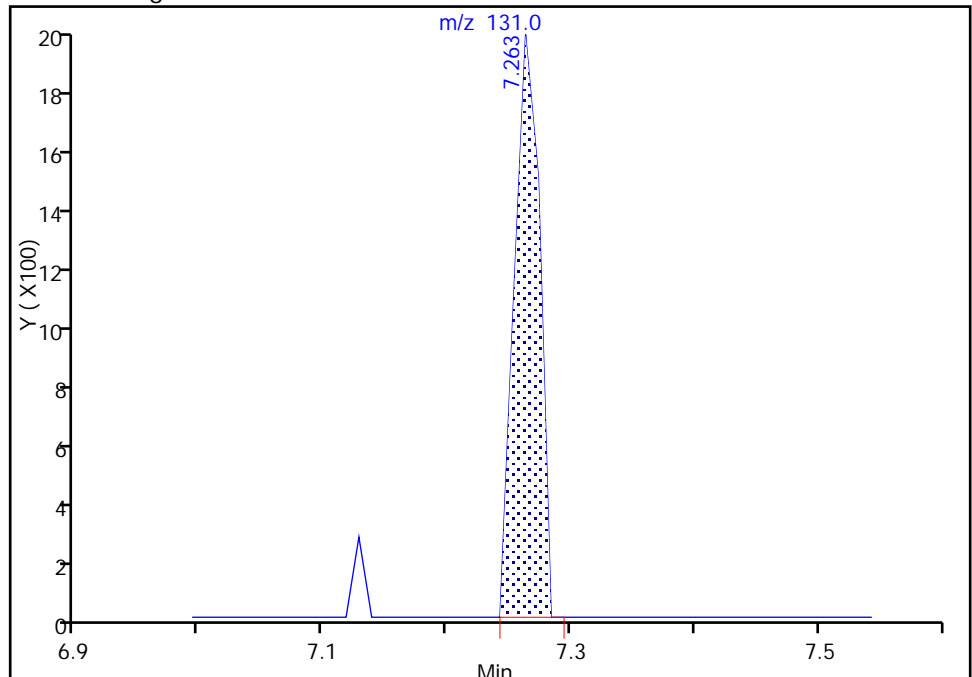
Not Detected
Expected RT: 7.26

Processing Integration Results



Manual Integration Results

RT: 7.26
Area: 2765
Amount: 0.326530
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:21:07
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

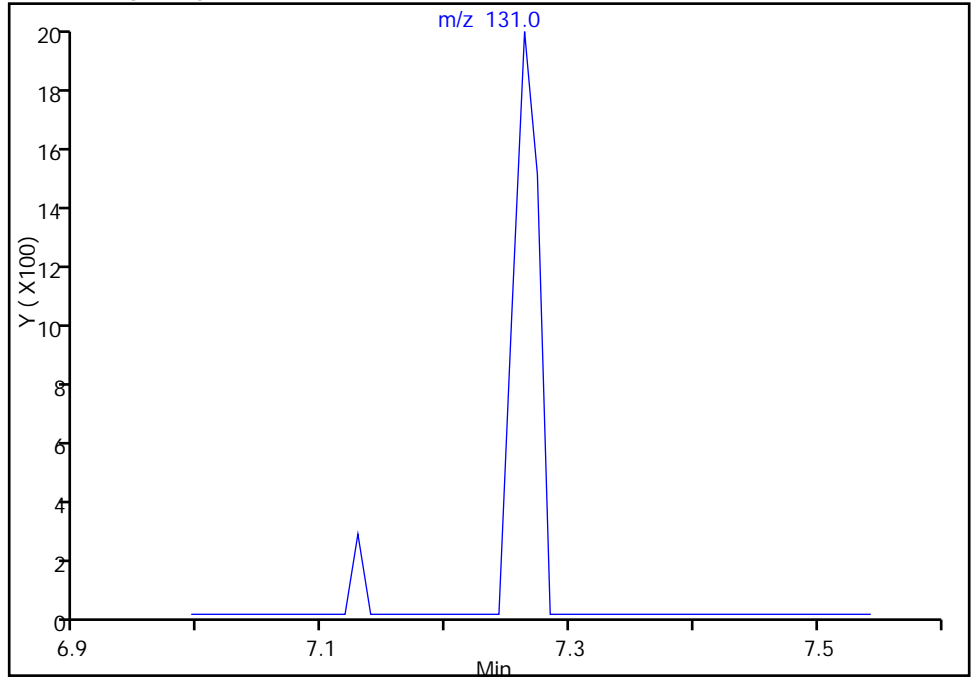
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2459.D
Injection Date: 01-Dec-2017 15:10:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RR ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

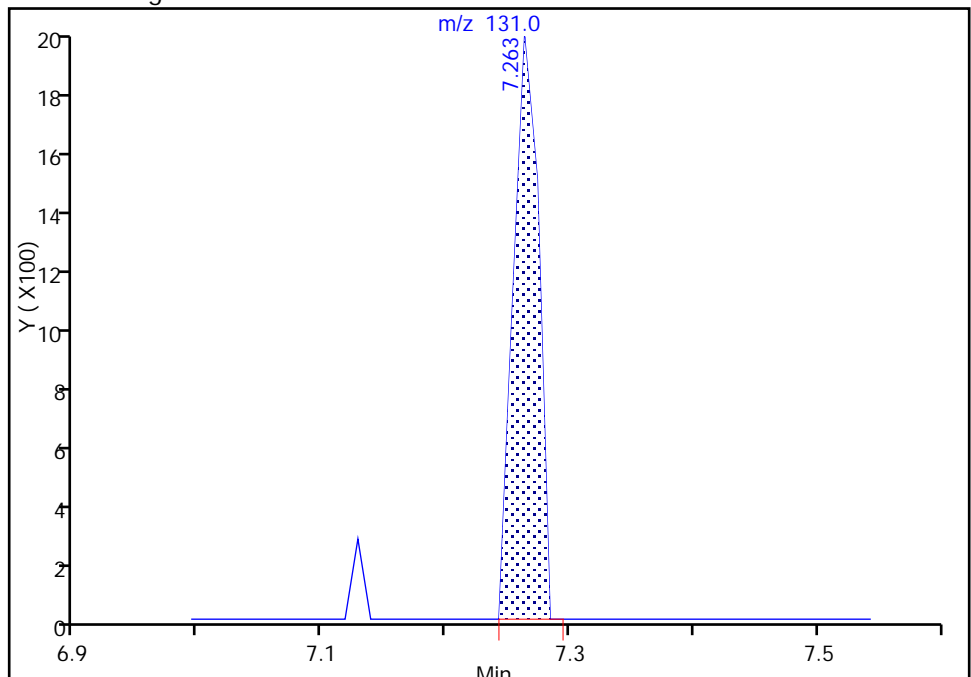
Not Detected
Expected RT: 7.26

Processing Integration Results



Manual Integration Results

RT: 7.26
Area: 2765
Amount: 0.326530
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:21:09

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Dec-2017 15:33:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 480-0067685-014
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:14 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 04-Dec-2017 08:25:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	144569	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	516231	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	297472	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	92	180509	25.0	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	246660	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	652294	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	86	213305	25.0	25.0	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	47	8885	1.00	0.9521	M
13 Chloromethane	50	1.398	1.398	0.000	98	14112	1.00	1.07	M
14 Vinyl chloride	62	1.481	1.481	0.000	95	10711	1.00	1.05	M
151 Butadiene	54	1.481	1.481	0.000	89	11684	1.00	1.05	M
15 Bromomethane	94	1.771	1.781	-0.010	82	6831	1.00	1.15	M
16 Chloroethane	64	1.823	1.833	-0.010	61	5399	1.00	1.02	M
17 Trichlorofluoromethane	101	2.019	2.051	-0.032	69	13508	1.00	0.9847	
18 Dichlorofluoromethane	67	2.040	2.071	-0.031	50	21095	1.00	1.28	M
19 Ethyl ether	59	2.289	2.299	-0.010	87	8829	1.00	1.22	
21 Acrolein	56	2.475	2.476	-0.001	52	7882	5.00	6.77	
22 1,1-Dichloroethene	96	2.496	2.507	-0.011	92	7133	1.00	1.14	
20 1,1,2-Trichloro-1,2,2-trif	101	2.496	2.527	-0.031	20	6603	1.00	1.02	M
23 Acetone	43	2.621	2.621	-0.001	95	15892	5.00	5.75	
24 Iodomethane	142	2.662	2.662	0.000	97	13549	1.00	1.08	
25 Carbon disulfide	76	2.683	2.693	-0.010	94	20026	1.00	0.9656	
27 3-Chloro-1-propene	41	2.848	2.849	-0.001	84	21673	1.00	1.24	
28 Methyl acetate	43	2.890	2.890	0.000	100	14958	2.00	2.32	
30 Methylene Chloride	84	2.983	2.983	0.000	91	12750	1.00	1.17	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	45	6691	10.0	9.88	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	96	23770	1.00	1.07	
32 trans-1,2-Dichloroethene	96	3.180	3.180	0.000	79	6483	1.00	0.9243	
34 Acrylonitrile	53	3.242	3.242	0.000	97	34445	10.0	10.9	
35 Hexane	57	3.346	3.346	0.000	87	18194	1.00	1.27	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	14896	1.00	0.99	
39 Vinyl acetate	43	3.584	3.584	0.000	97	44932	2.00	2.19	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	88	14044	1.00	1.09	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	80	9114	1.00	1.12	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	94	24237	5.00	6.10	
47 Chlorobromomethane	128	4.216	4.217	-0.001	90	4538	1.00	1.09	
48 Tetrahydrofuran	42	4.227	4.227	0.000	63	7259	2.00	2.65	
50 Chloroform	83	4.279	4.279	0.000	95	16266	1.00	1.09	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	90	13765	1.00	1.03	
52 Cyclohexane	56	4.372	4.372	0.000	95	20344	1.00	1.17	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	83	11060	1.00	1.10	
53 Carbon tetrachloride	117	4.486	4.486	0.000	91	12971	1.00	1.11	
55 Benzene	78	4.652	4.652	0.000	46	28597	1.00	1.07	
56 Isobutyl alcohol	43	4.672	4.673	-0.001	29	9821	25.0	31.6	M
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	14496	1.00	1.02	
59 n-Heptane	43	4.786	4.787	0.000	94	15648	1.00	0.9237	M
60 Trichloroethene	95	5.139	5.139	0.000	89	8977	1.00	1.11	
62 Methylcyclohexane	83	5.232	5.232	0.000	94	12946	1.00	1.03	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	86	8285	1.00	1.03	
65 Dibromomethane	93	5.439	5.439	0.000	90	5175	1.00	1.06	
66 1,4-Dioxane	88		5.439				ND	ND	
67 Dichlorobromomethane	83	5.553	5.553	0.000	92	10813	1.00	0.9809	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	-0.001	94	5439	1.00	1.01	
71 cis-1,3-Dichloropropene	75	5.875	5.875	-0.001	74	9472	1.00	0.8026	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	97	45939	5.00	5.39	
73 Toluene	92	6.092	6.092	0.000	90	15784	1.00	0.9443	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	1	12624	1.00	1.12	M
77 Ethyl methacrylate	69	6.330	6.331	-0.001	90	8919	1.00	1.01	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	89	4770	1.00	0.9694	
79 Tetrachloroethene	166	6.496	6.496	0.000	89	8074	1.00	0.99	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	85	11439	1.00	1.07	
81 2-Hexanone	43	6.621	6.621	0.000	96	32252	5.00	5.34	
82 Chlorodibromomethane	129	6.755	6.755	0.000	90	8714	1.00	1.08	
83 Ethylene Dibromide	107	6.838	6.838	0.000	91	7042	1.00	1.05	
86 Chlorobenzene	112	7.191	7.191	0.000	95	21689	1.00	1.04	
88 Ethylbenzene	91	7.253	7.253	0.000	98	37010	1.00	1.07	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	83	9520	1.00	1.12	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	14755	1.00	1.11	
91 o-Xylene	106	7.667	7.667	0.000	96	13483	1.00	1.02	
92 Styrene	104	7.688	7.688	0.000	88	22221	1.00	0.9897	
93 Bromoform	173	7.885	7.885	0.000	86	4773	1.00	0.9352	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	38558	1.00	1.10	
97 Bromobenzene	156	8.227	8.227	0.000	91	9875	1.00	1.06	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	58	8625	1.00	1.11	M
99 N-Propylbenzene	91	8.279	8.279	0.000	97	39972	1.00	0.9728	M
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	61	3035	1.00	1.12	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.289	0.010	46	4366	1.00	1.19	M
105 2-Chlorotoluene	126	8.372	8.362	0.010	94	8034	1.00	0.9542	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	91	36278	1.00	1.16	
102 4-Chlorotoluene	91	8.455	8.455	0.000	97	29295	1.00	1.10	
106 tert-Butylbenzene	134	8.683	8.673	0.010	94	8075	1.00	1.15	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	97	35270	1.00	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	96	38506	1.00	1.06	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	35275	1.00	1.00	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	96	18477	1.00	1.03	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	91	19106	1.00	1.05	
115 n-Butylbenzene	91	9.305	9.305	0.000	97	33698	1.00	1.14	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	95	18573	1.00	1.08	
117 1,2-Dibromo-3-Chloropropan	75	10.051	10.041	0.010	3	1299	1.00	0.8265	
119 1,2,4-Trichlorobenzene	180	10.683	10.693	-0.010	89	16096	1.00	1.14	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	94	8247	1.00	1.15	
121 Naphthalene	128	10.901	10.901	0.000	96	31138	1.00	1.07	
122 1,2,3-Trichlorobenzene	180	11.087	11.098	-0.011	74	14290	1.00	1.04	
S 124 1,2-Dichloroethene, Total	1				0			2.04	
S 125 Total BTEX	1				0			5.22	
S 126 Xylenes, Total	1				0			2.13	
S 123 1,3-Dichloropropene, Total	1				0			1.92	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00116	Amount Added: 1.00	Units: uL	
GAS CORP mix_00253	Amount Added: 1.00	Units: uL	
T_8260_IS_00180	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D

Injection Date: 01-Dec-2017 15:33:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

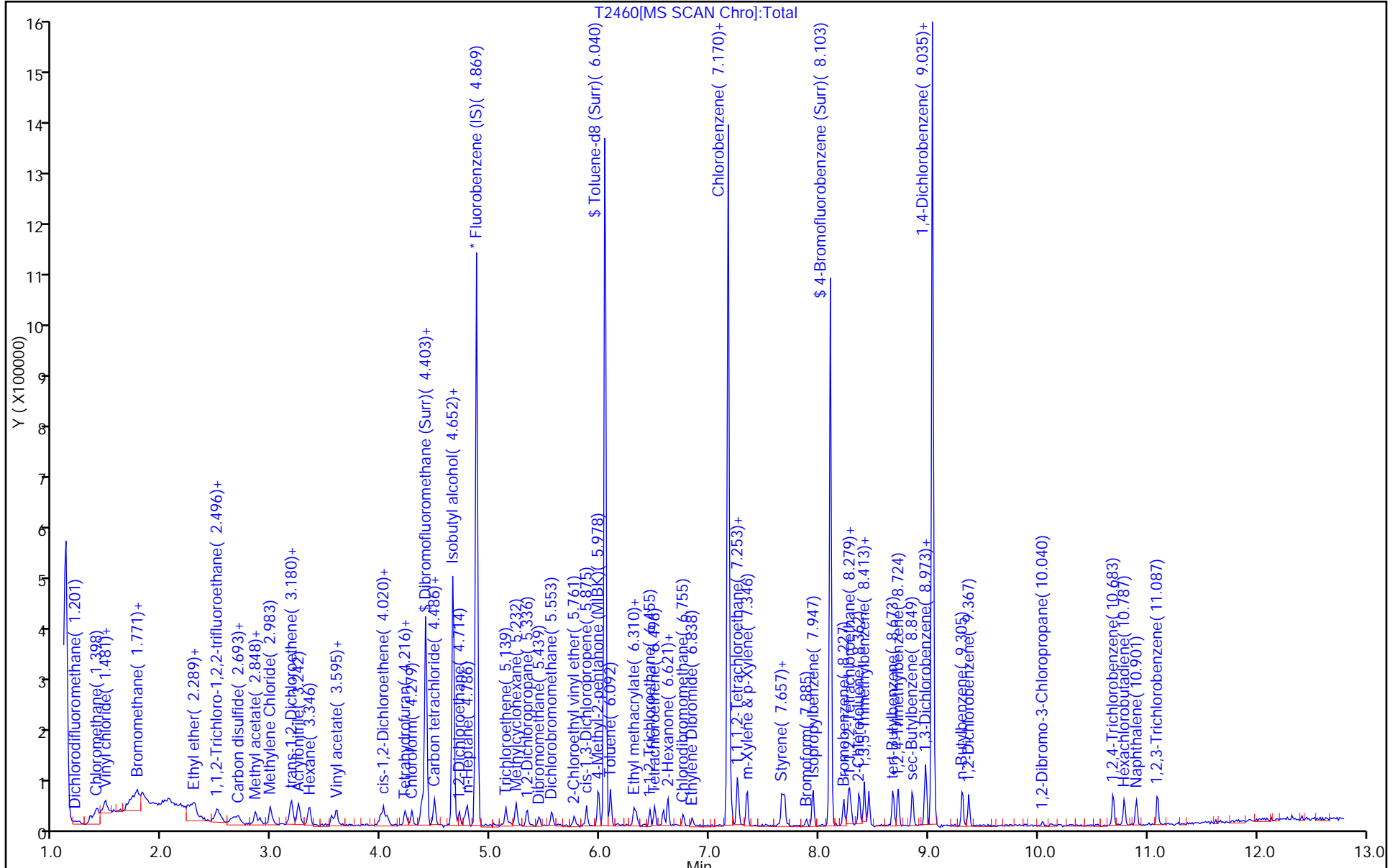
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

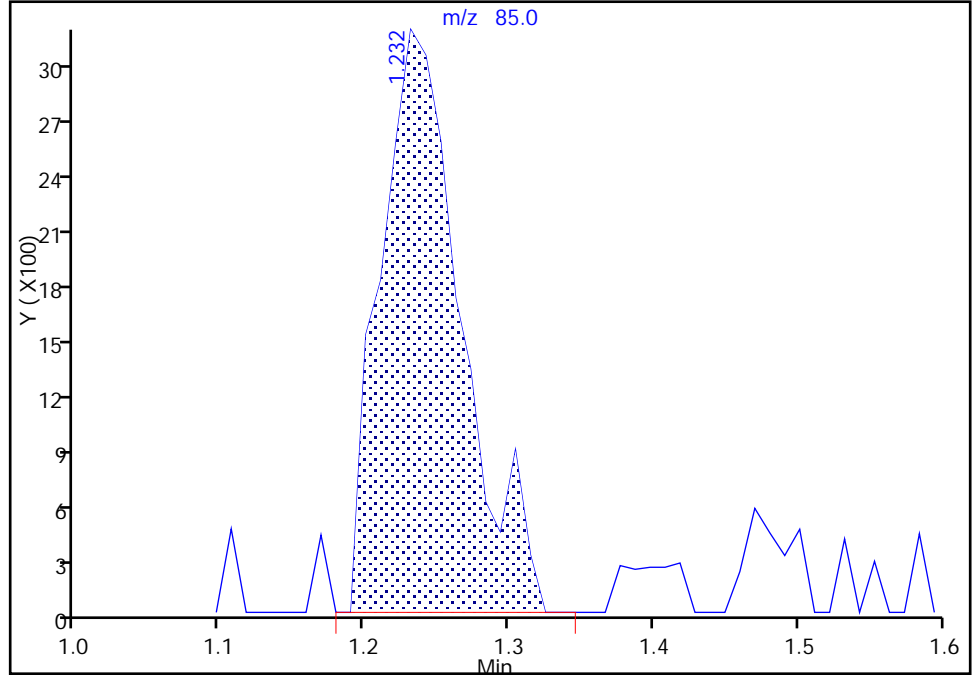
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Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

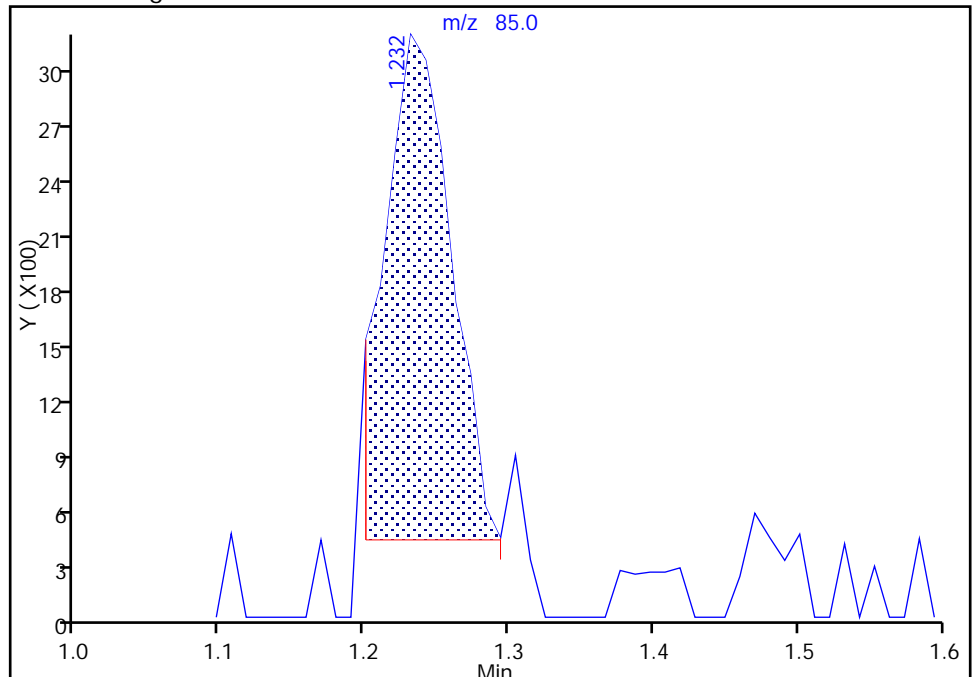
RT: 1.23
Area: 12198
Amount: 1.256366
Amount Units: ug/L

Processing Integration Results



RT: 1.23
Area: 8885
Amount: 0.952142
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:04:08
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

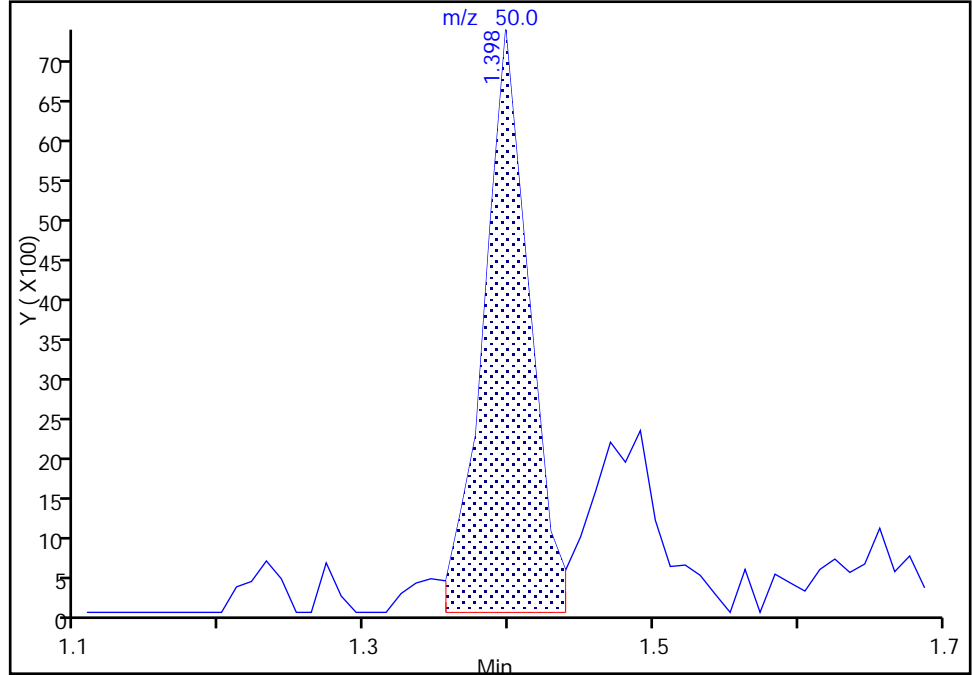
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Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

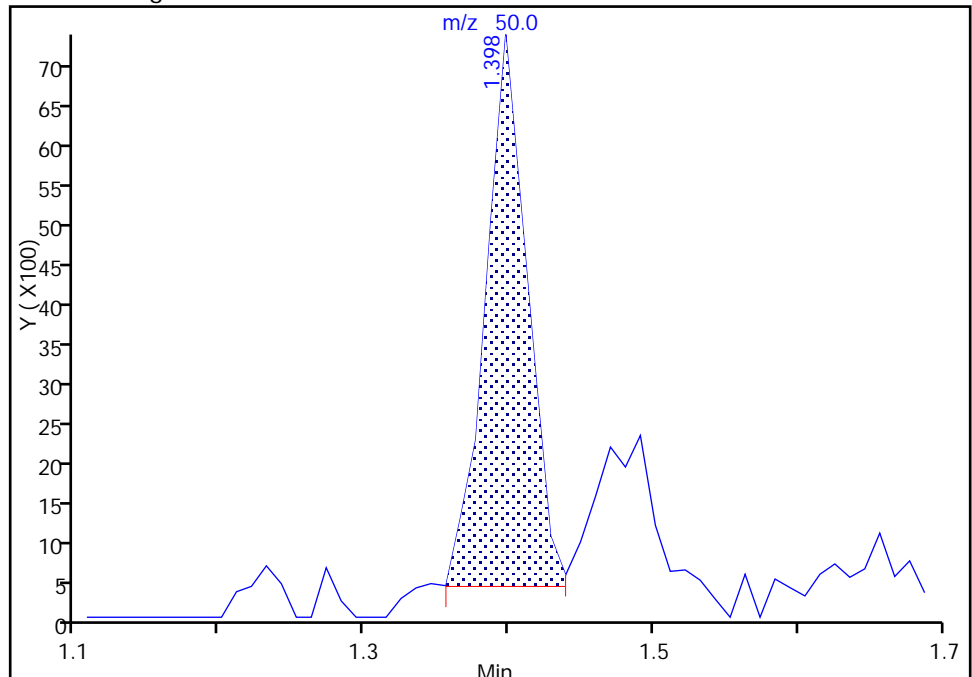
RT: 1.40
Area: 16294
Amount: 1.207906
Amount Units: ug/L

Processing Integration Results



RT: 1.40
Area: 14112
Amount: 1.070896
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:03:57
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

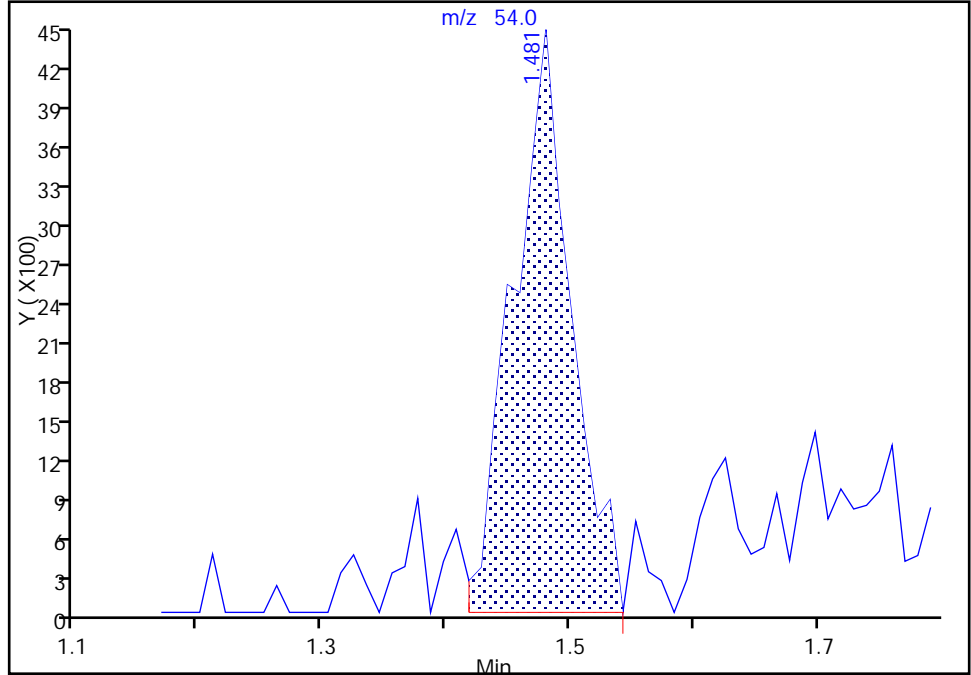
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Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

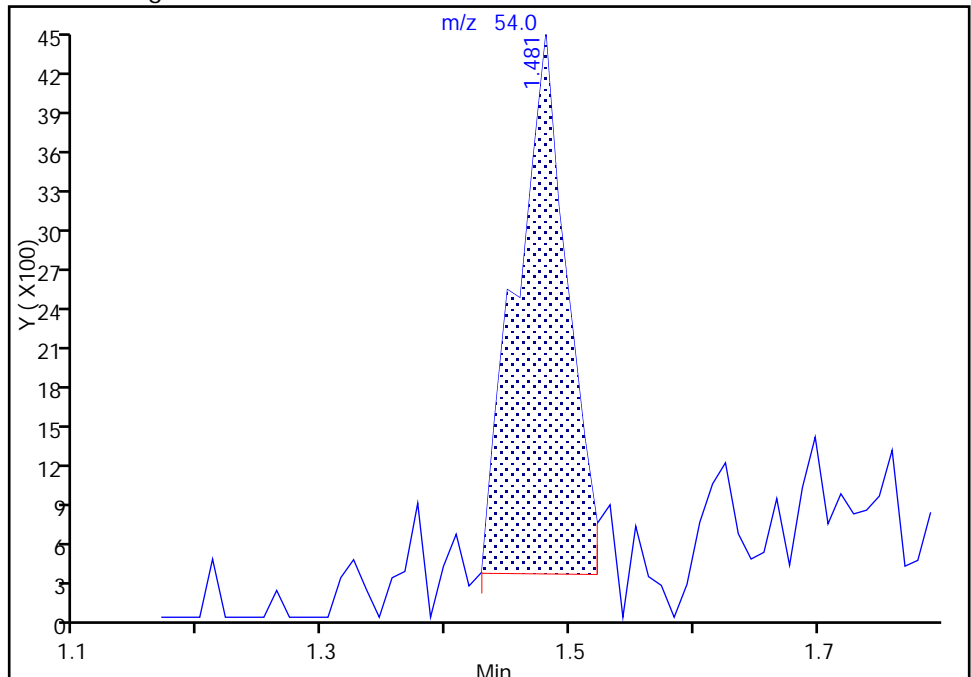
RT: 1.48
Area: 14405
Amount: 1.250329
Amount Units: ug/L

Processing Integration Results



RT: 1.48
Area: 11684
Amount: 1.049563
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:03:36
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

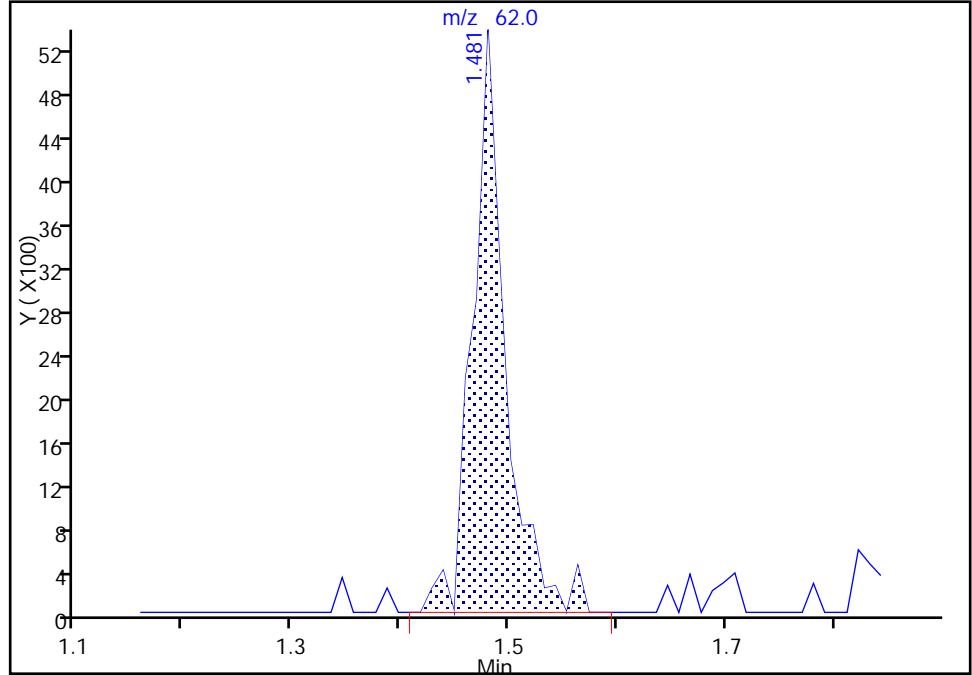
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Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

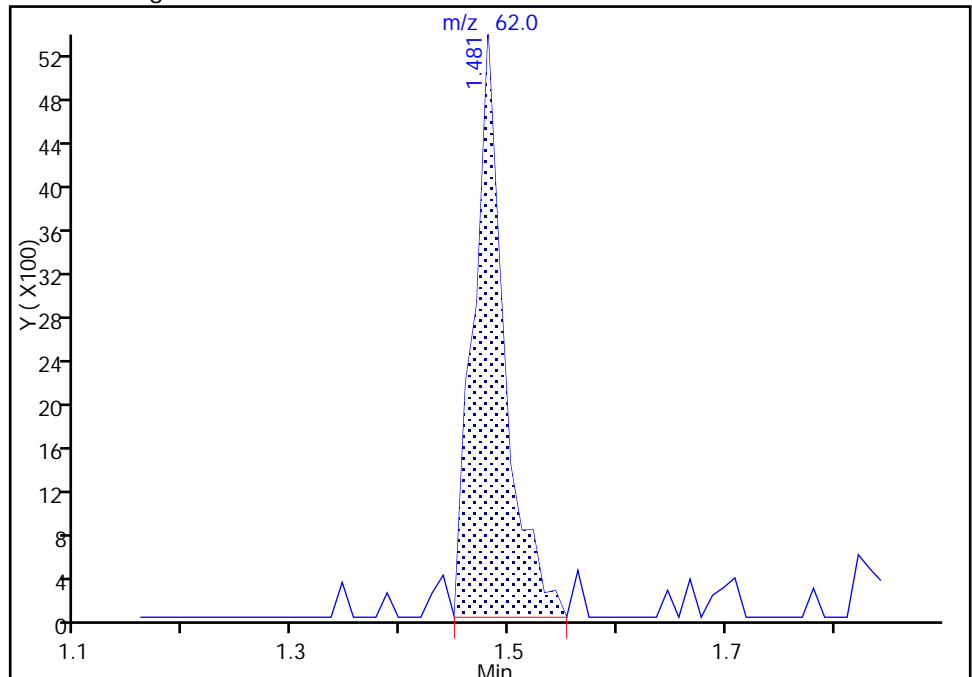
RT: 1.48
Area: 11358
Amount: 1.106646
Amount Units: ug/L

Processing Integration Results



RT: 1.48
Area: 10711
Amount: 1.053091
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:03:48
Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

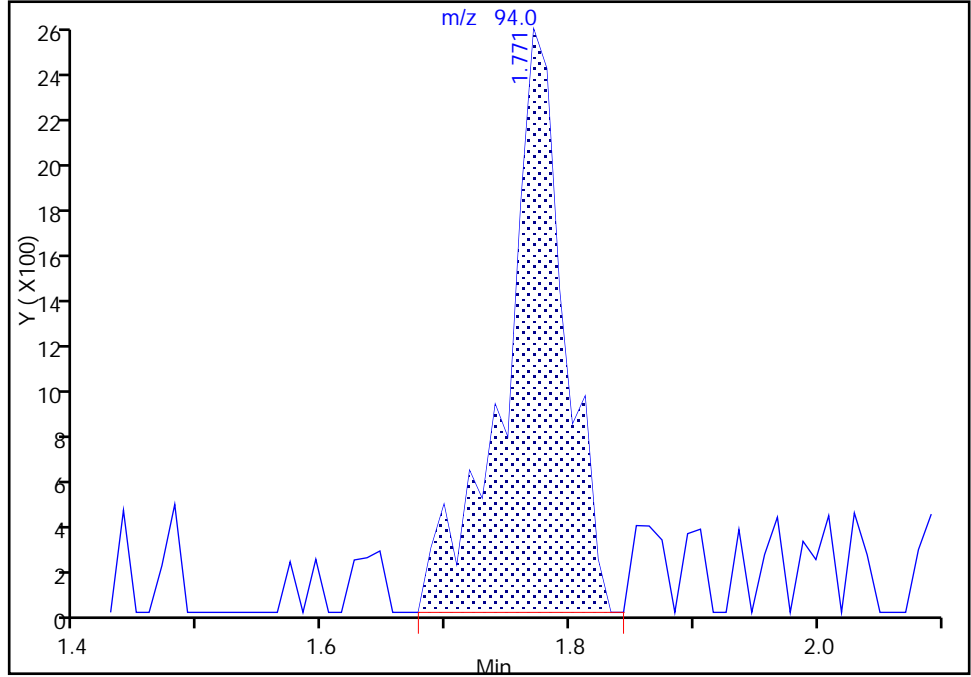
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Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

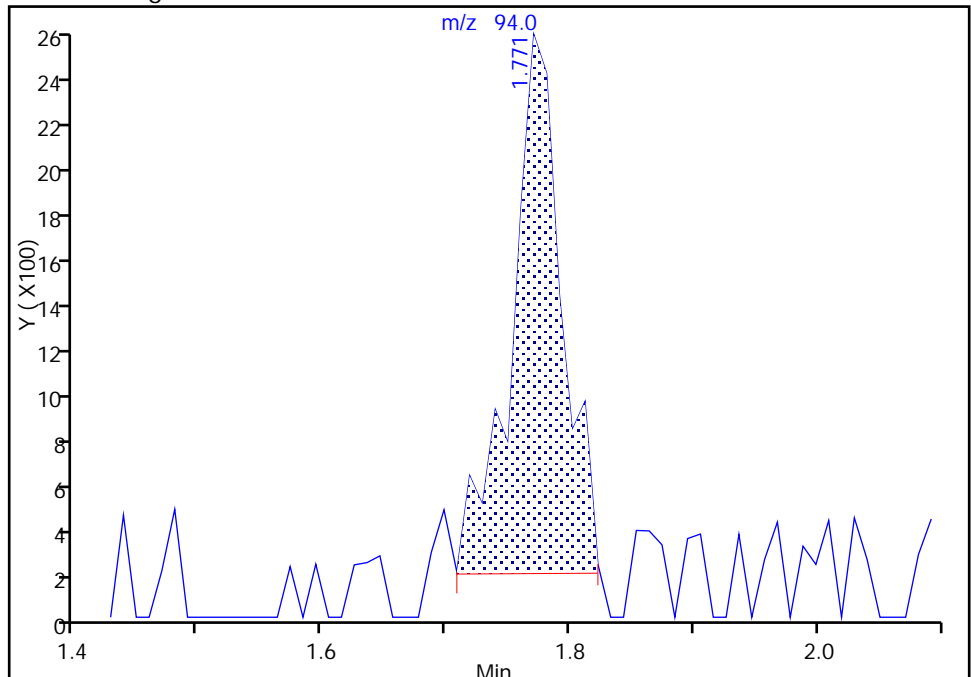
RT: 1.77
Area: 8754
Amount: 1.425672
Amount Units: ug/L

Processing Integration Results



RT: 1.77
Area: 6831
Amount: 1.149707
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:02:59
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

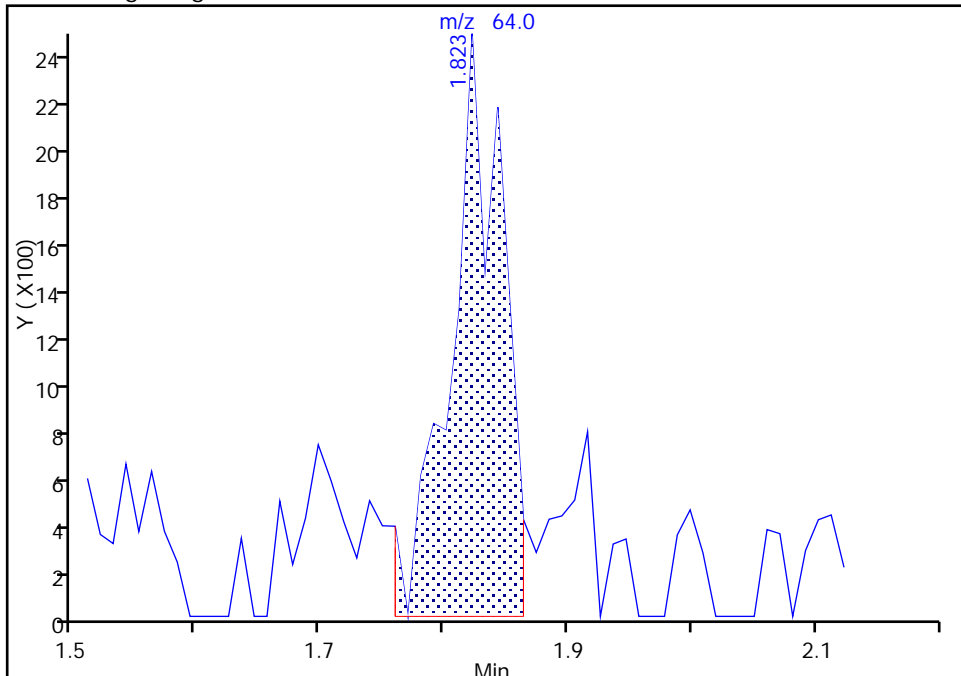
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

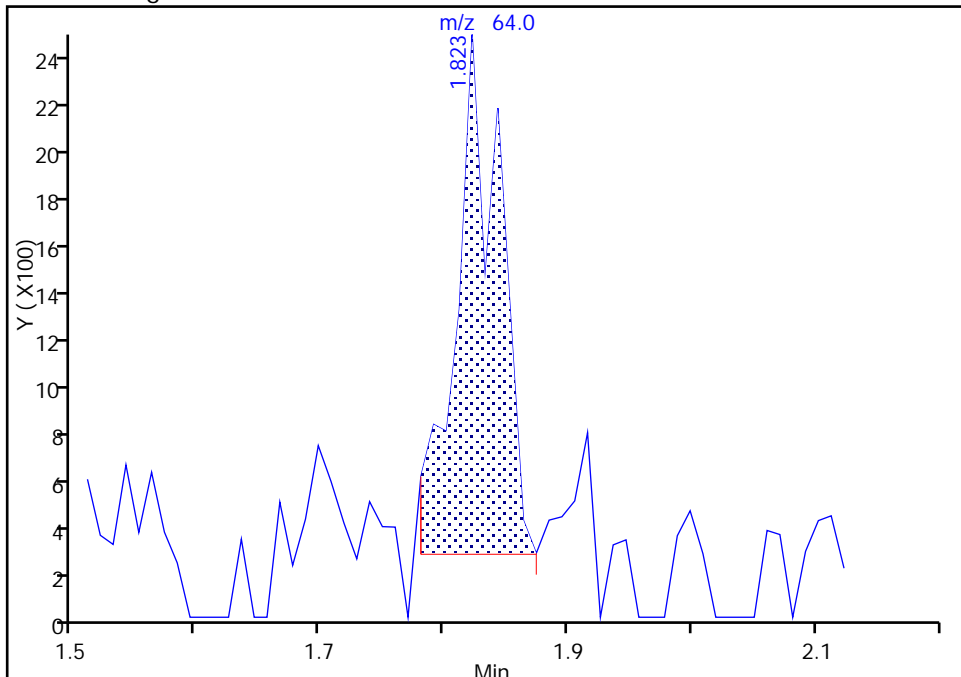
RT: 1.82
Area: 7096
Amount: 1.151289
Amount Units: ug/L

Processing Integration Results



RT: 1.82
Area: 5399
Amount: 1.024150
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 10:00:22
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

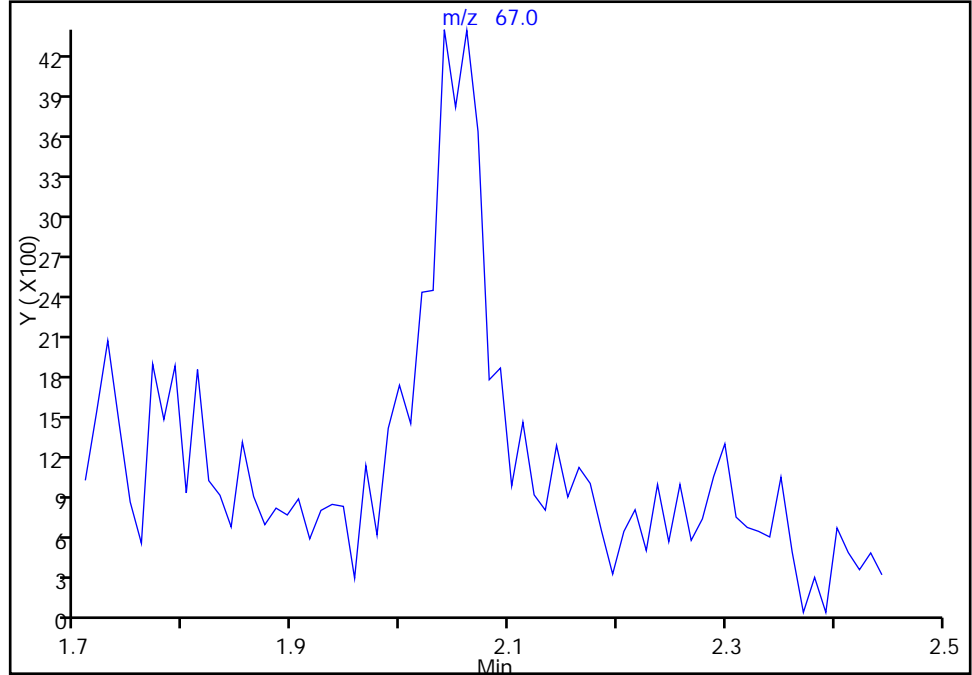
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

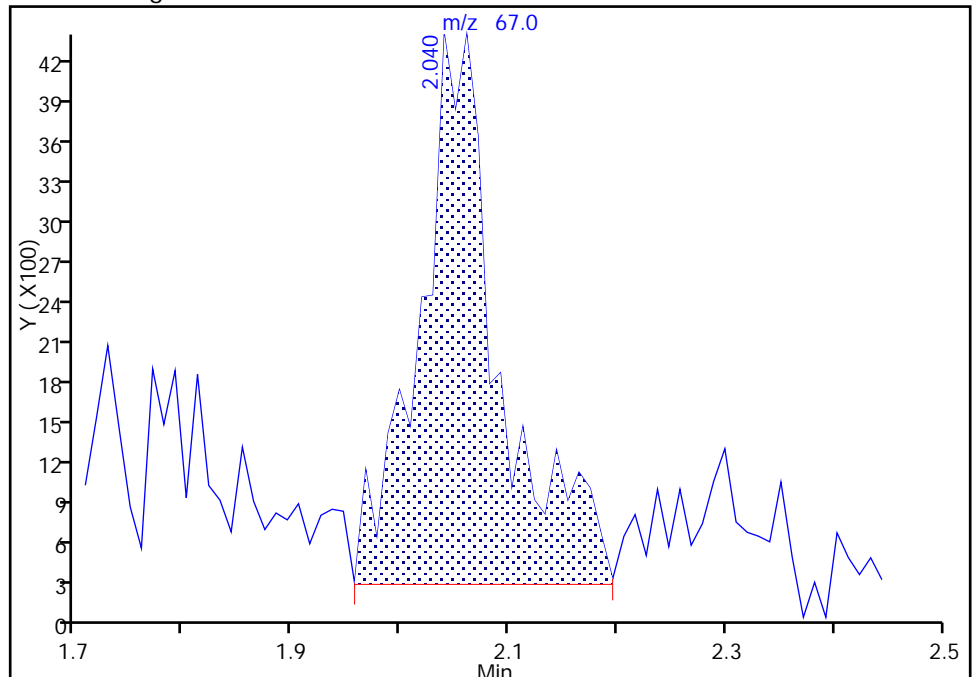
Not Detected
Expected RT: 2.07

Processing Integration Results



Manual Integration Results

RT: 2.04
Area: 21095
Amount: 1.275563
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:23:31
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

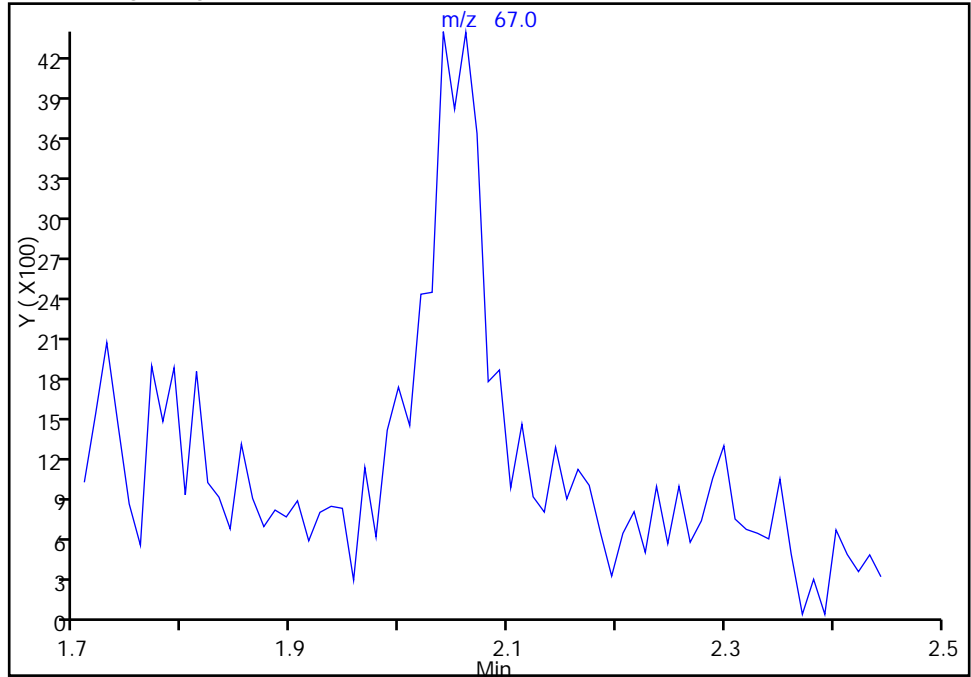
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

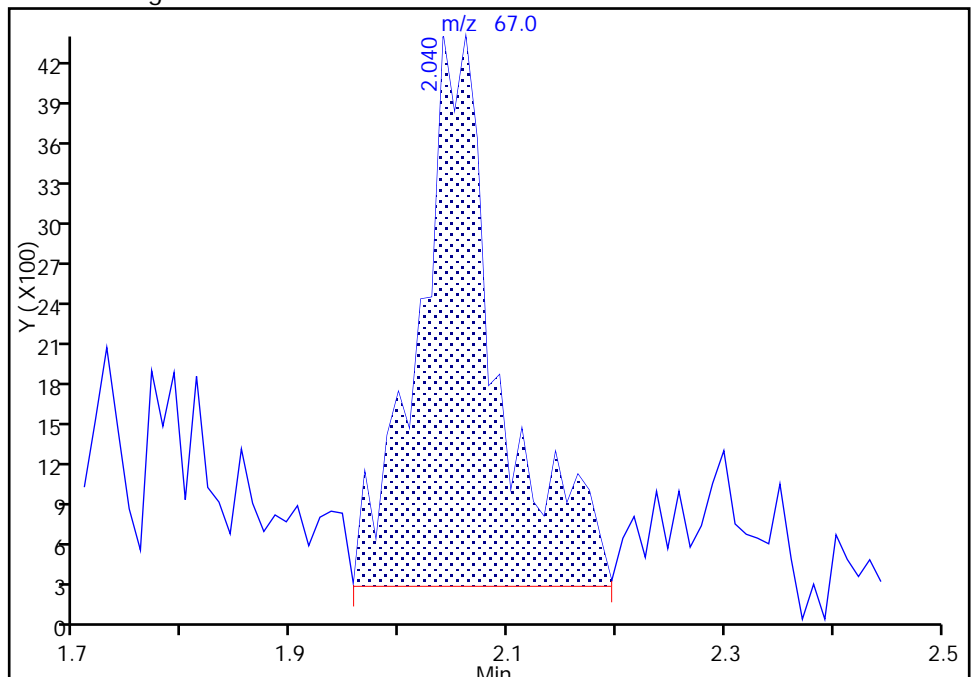
Not Detected
Expected RT: 2.07

Processing Integration Results



RT: 2.04
Area: 21095
Amount: 1.275563
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:23:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

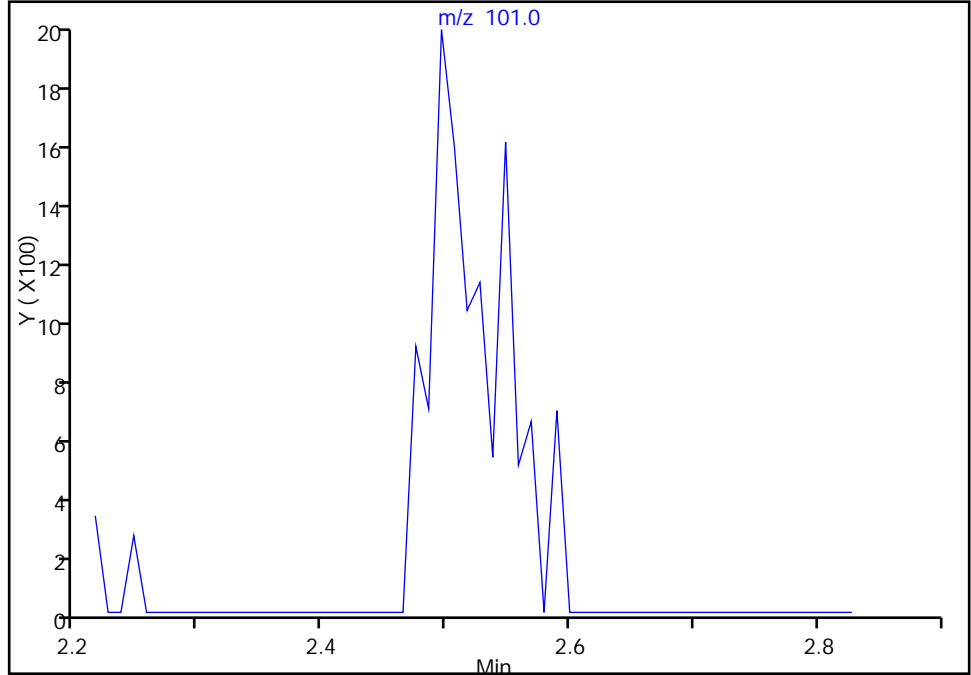
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

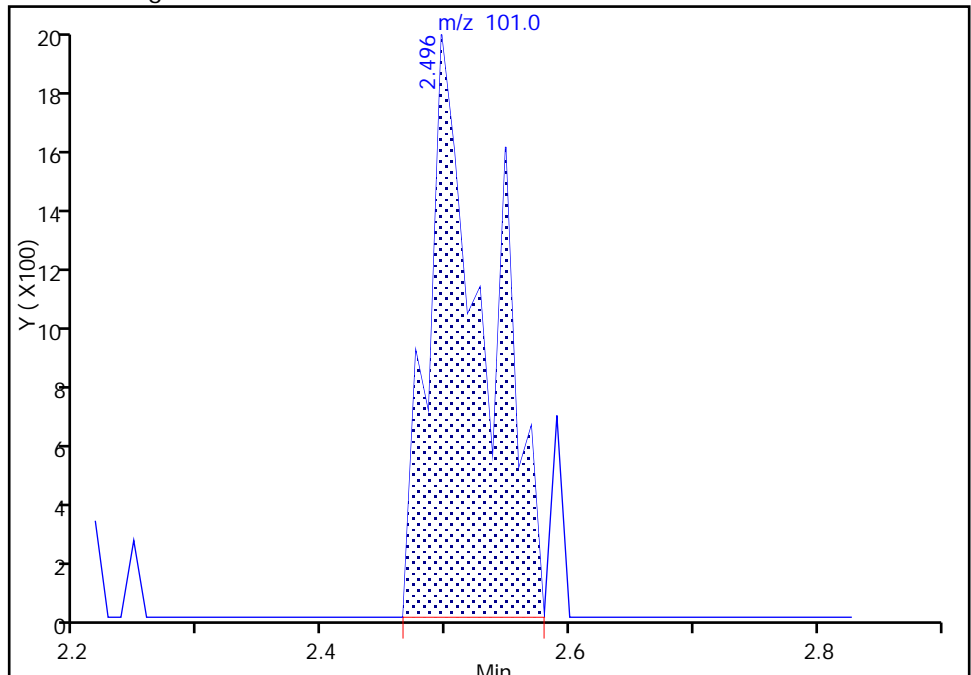
Not Detected
Expected RT: 2.53

Processing Integration Results



Manual Integration Results

RT: 2.50
Area: 6603
Amount: 1.018632
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:23:48
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

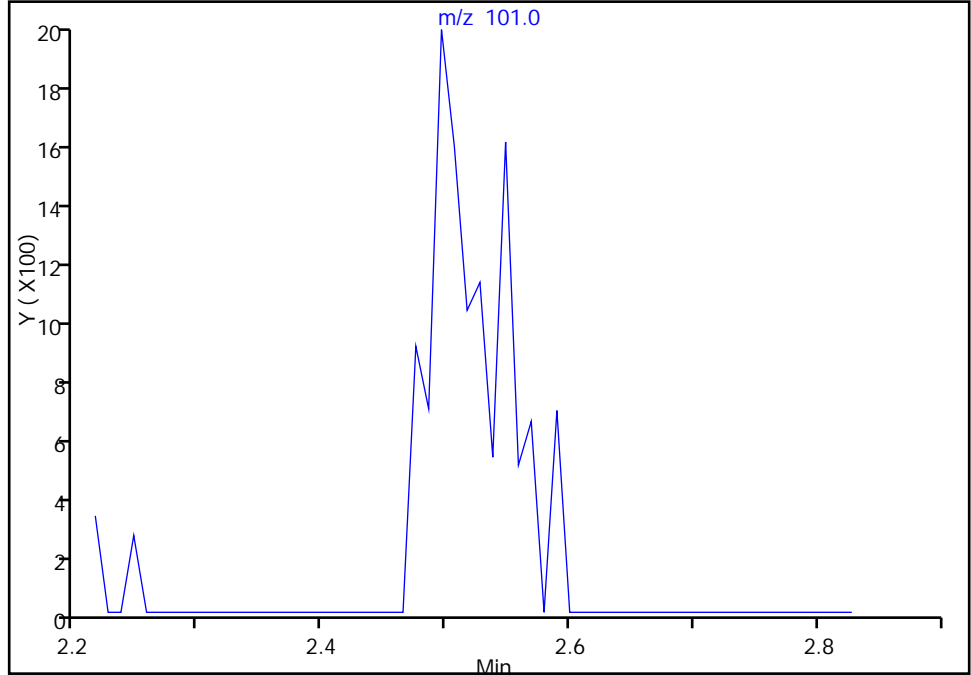
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

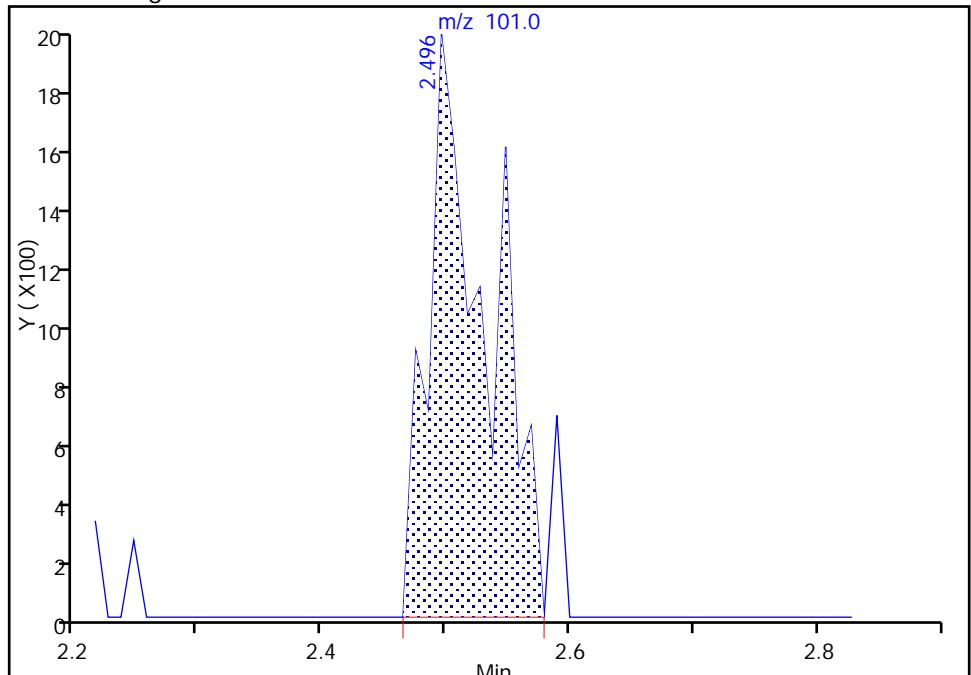
Signal: 1

Not Detected
Expected RT: 2.53

Processing Integration Results



Manual Integration Results



RT: 2.50
Area: 6603
Amount: 1.018632
Amount Units: ug/L

TestAmerica Buffalo

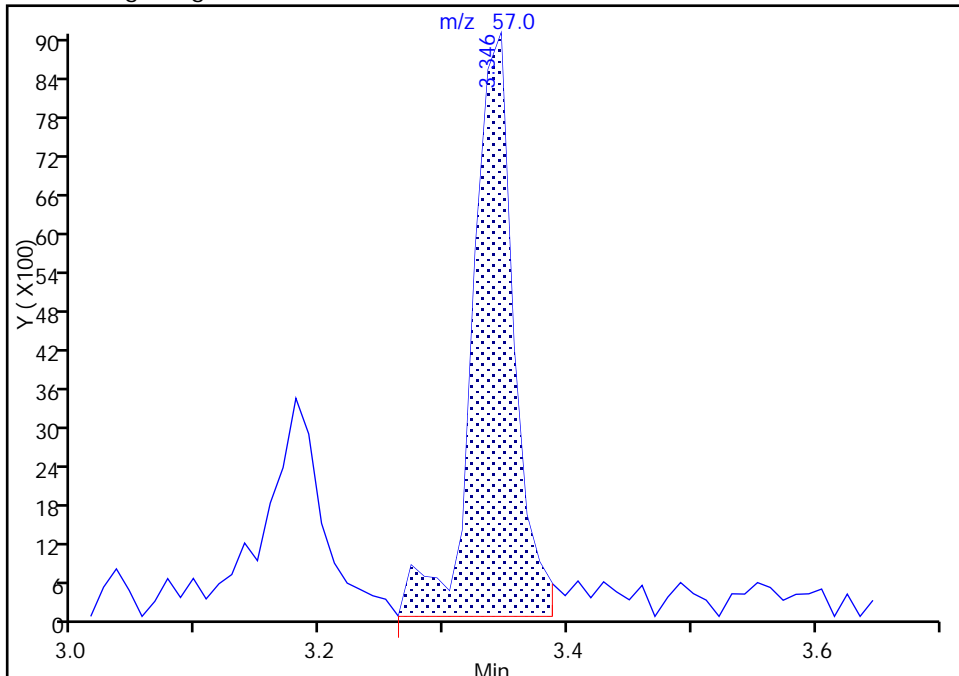
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

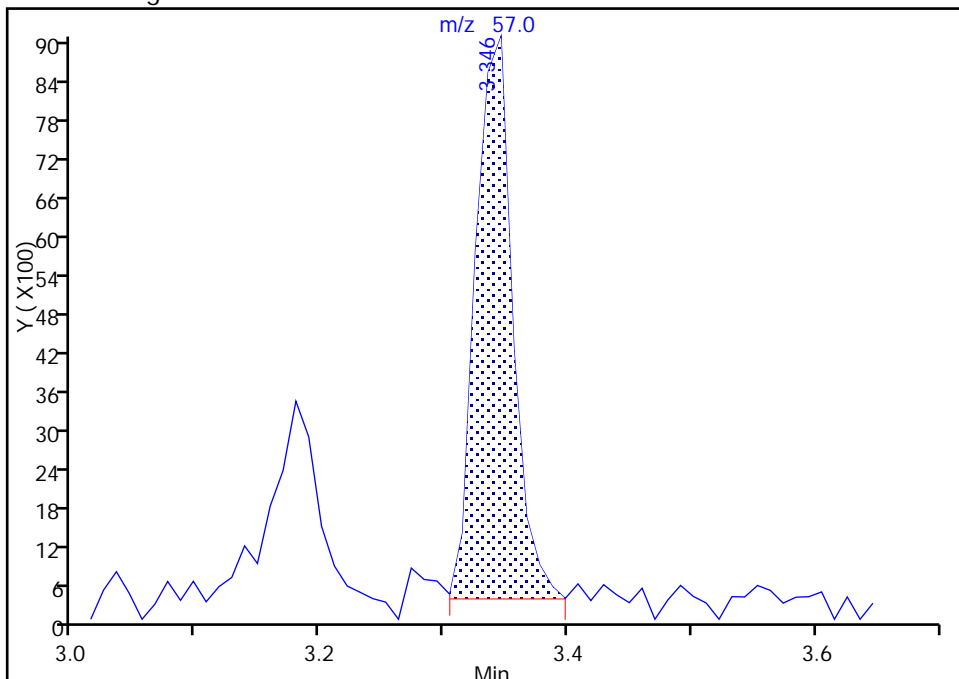
RT: 3.35
Area: 21198
Amount: 1.264061
Amount Units: ug/L

Processing Integration Results



RT: 3.35
Area: 18194
Amount: 1.268611
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 09:09:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

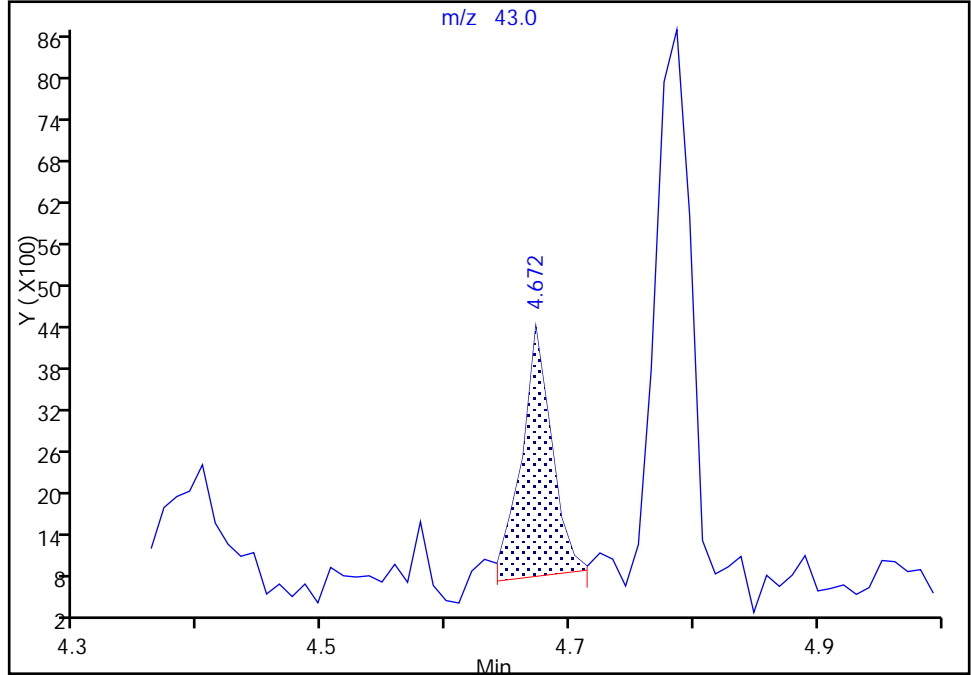
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

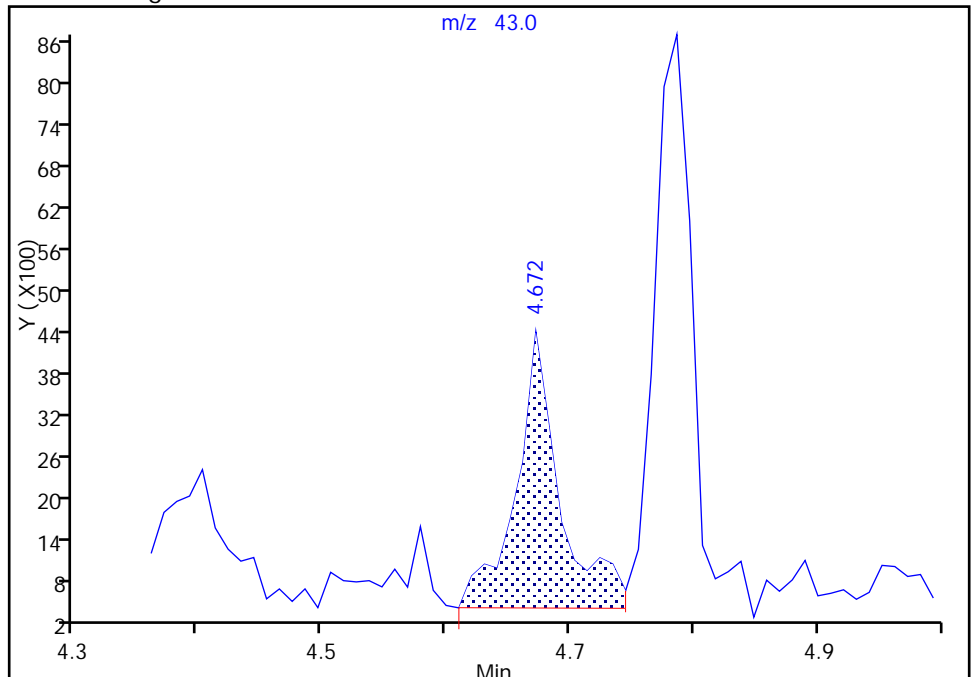
RT: 4.67
Area: 6158
Amount: 19.065773
Amount Units: ug/L

Processing Integration Results



RT: 4.67
Area: 9821
Amount: 31.584067
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:24:43
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

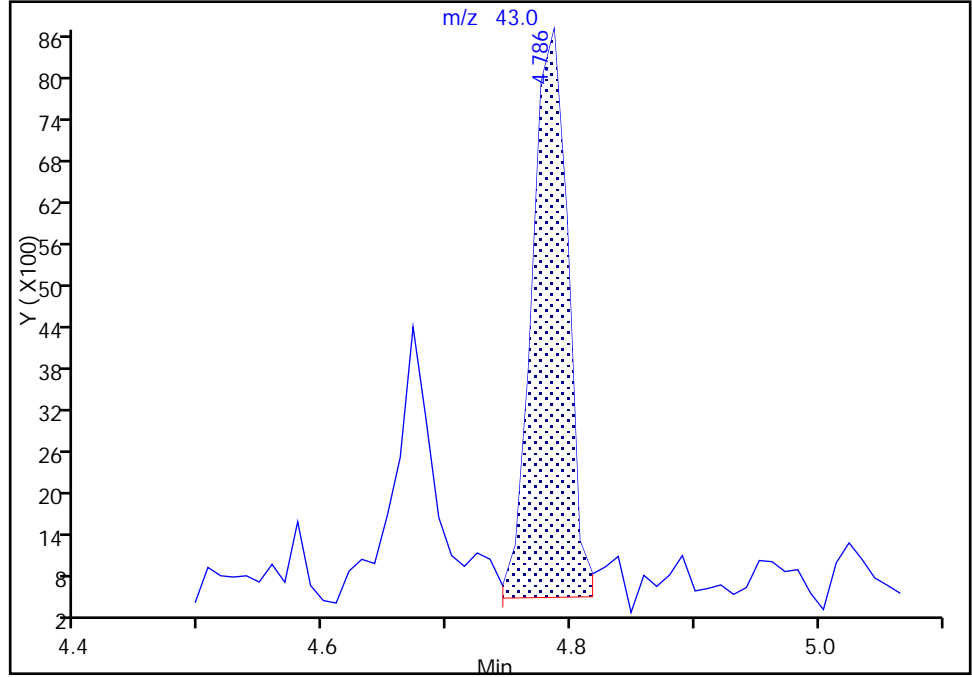
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

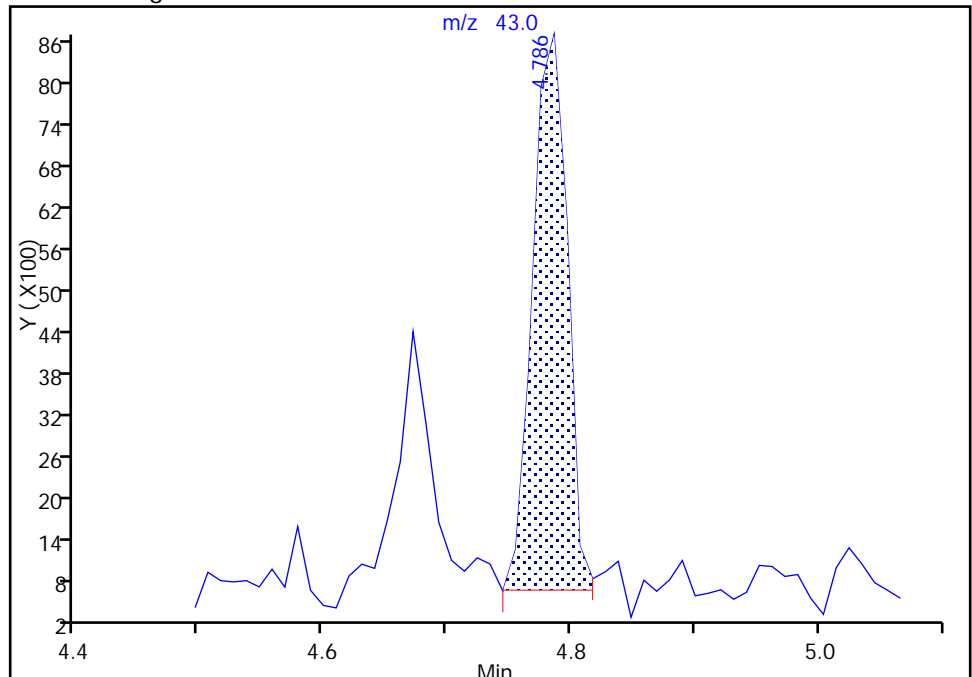
RT: 4.79
Area: 16524
Amount: 0.969157
Amount Units: ug/L

Processing Integration Results



RT: 4.79
Area: 15648
Amount: 0.923710
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:25:31
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

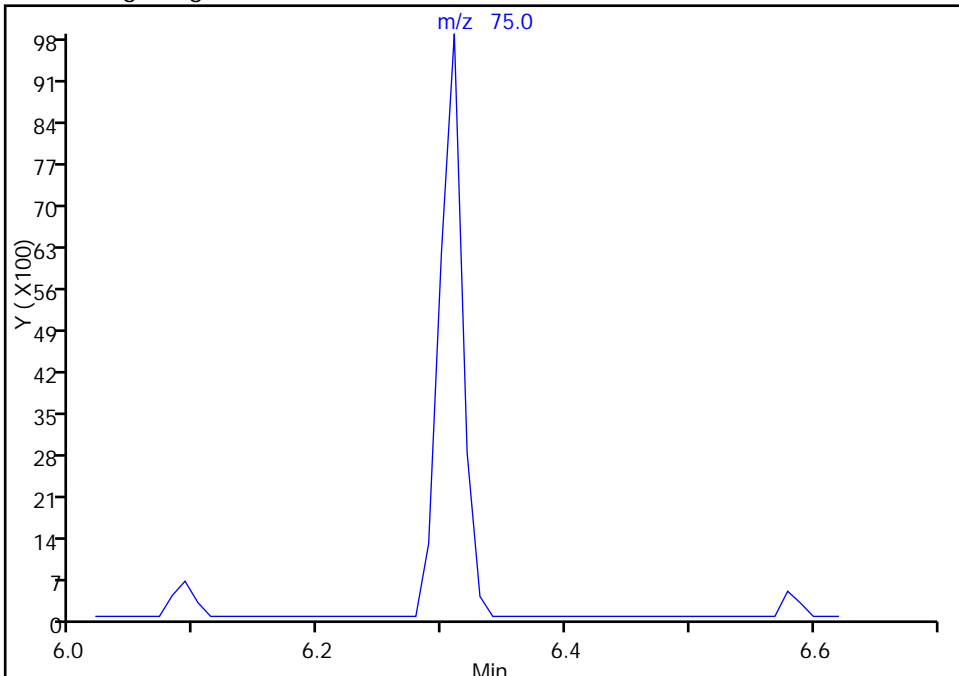
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

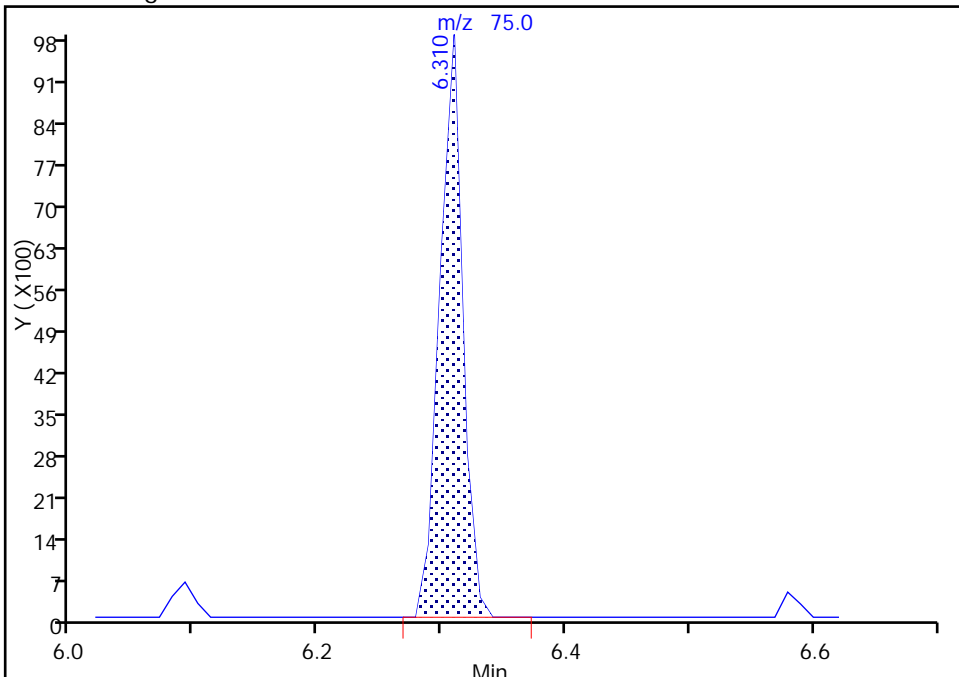
Not Detected
Expected RT: 6.31

Processing Integration Results



Manual Integration Results

RT: 6.31
Area: 12624
Amount: 1.121722
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:26:39
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

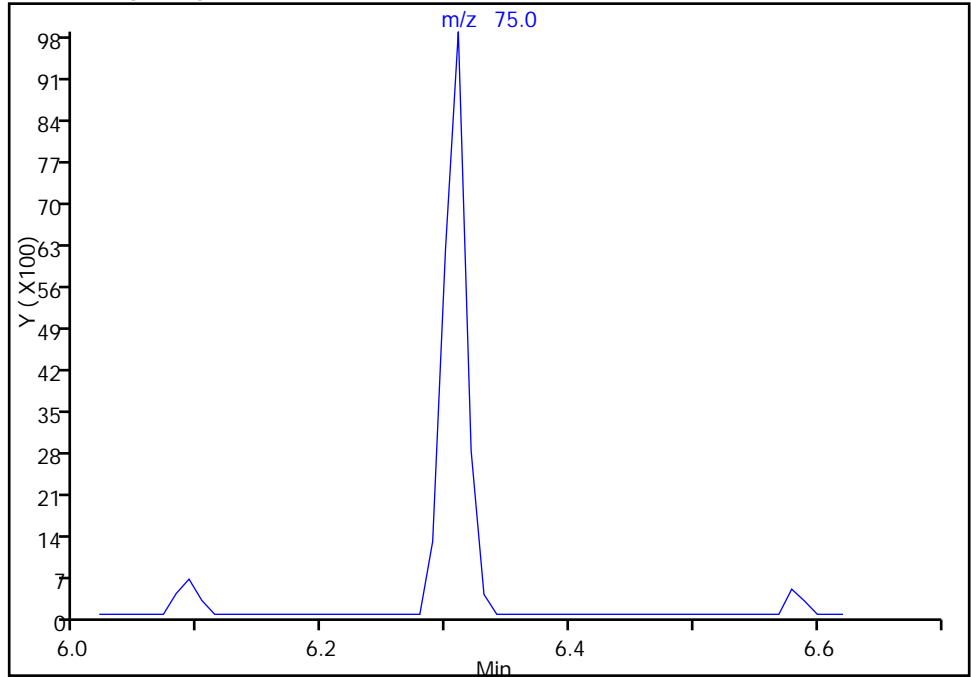
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

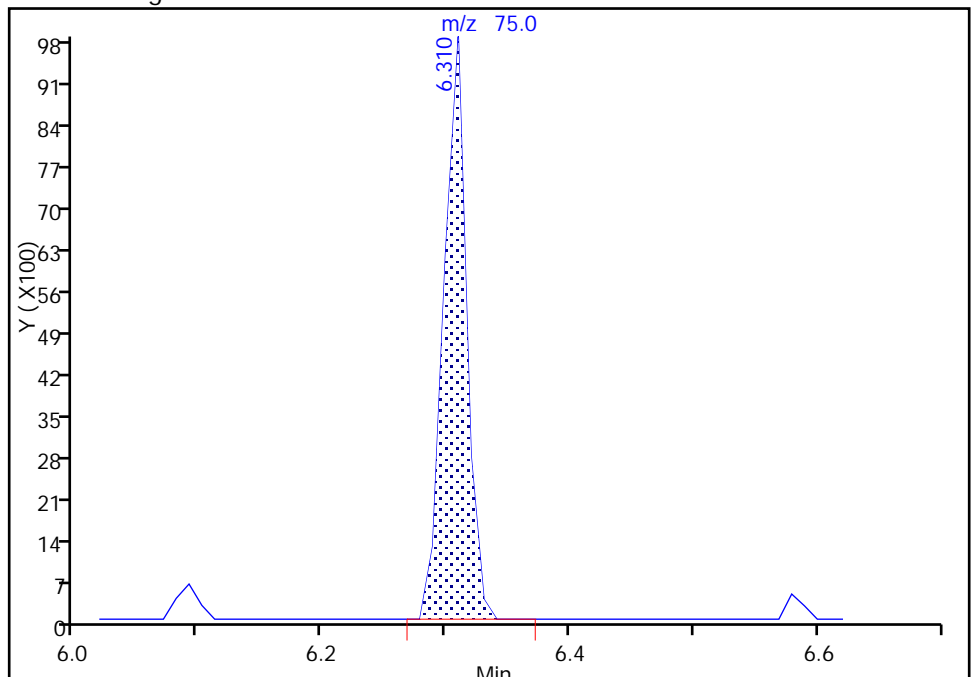
Signal: 1

Not Detected
Expected RT: 6.31

Processing Integration Results



Manual Integration Results



RT: 6.31
Area: 12624
Amount: 1.121722
Amount Units: ug/L

TestAmerica Buffalo

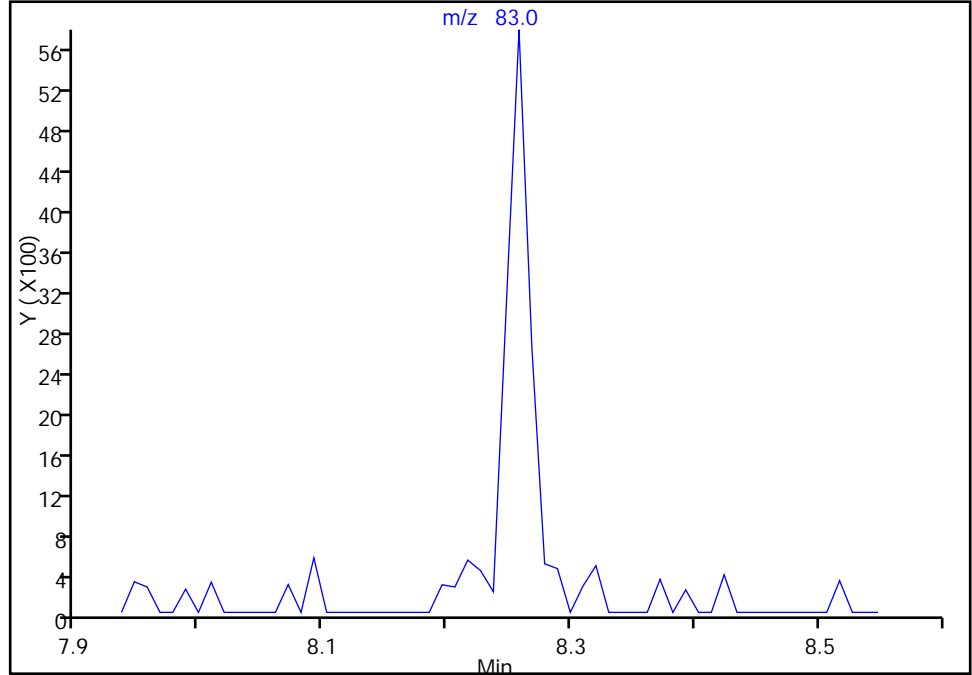
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

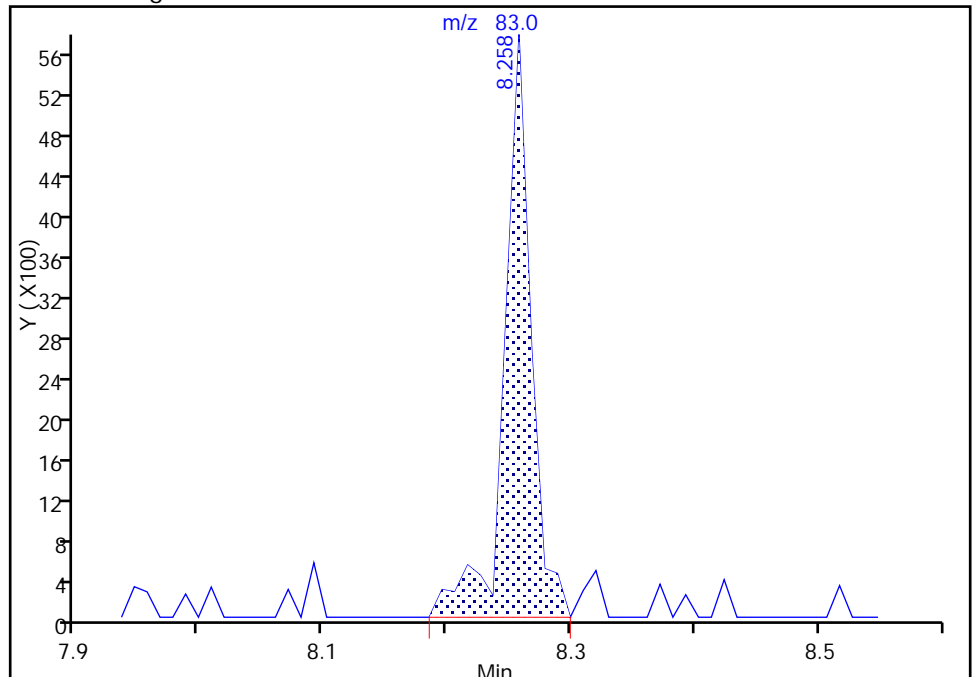
Not Detected
Expected RT: 8.26

Processing Integration Results



Manual Integration Results

RT: 8.26
Area: 8625
Amount: 1.109593
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:26:55
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

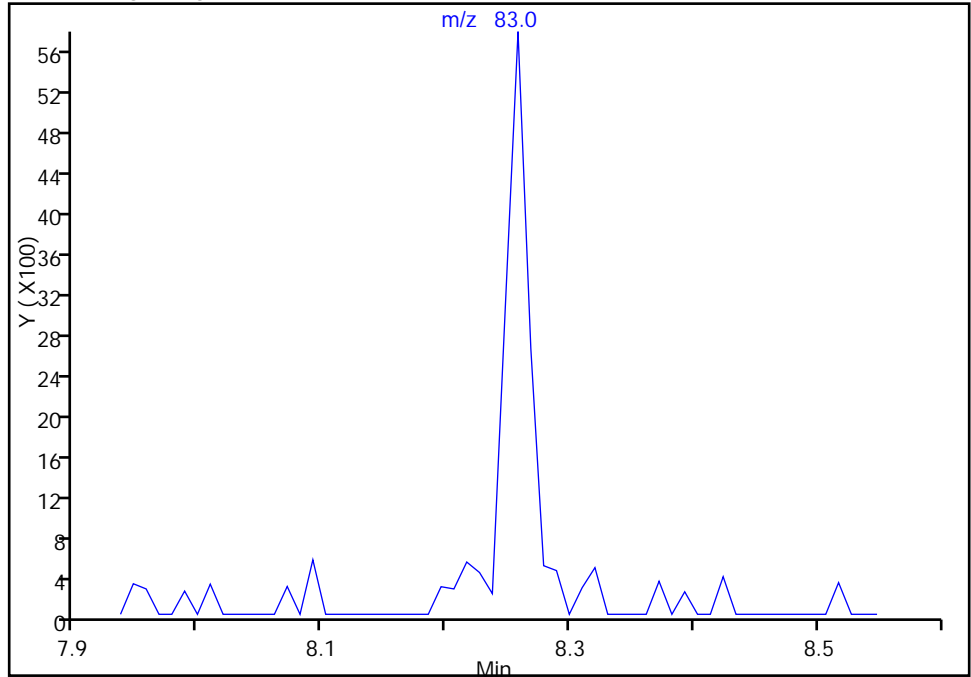
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

98 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

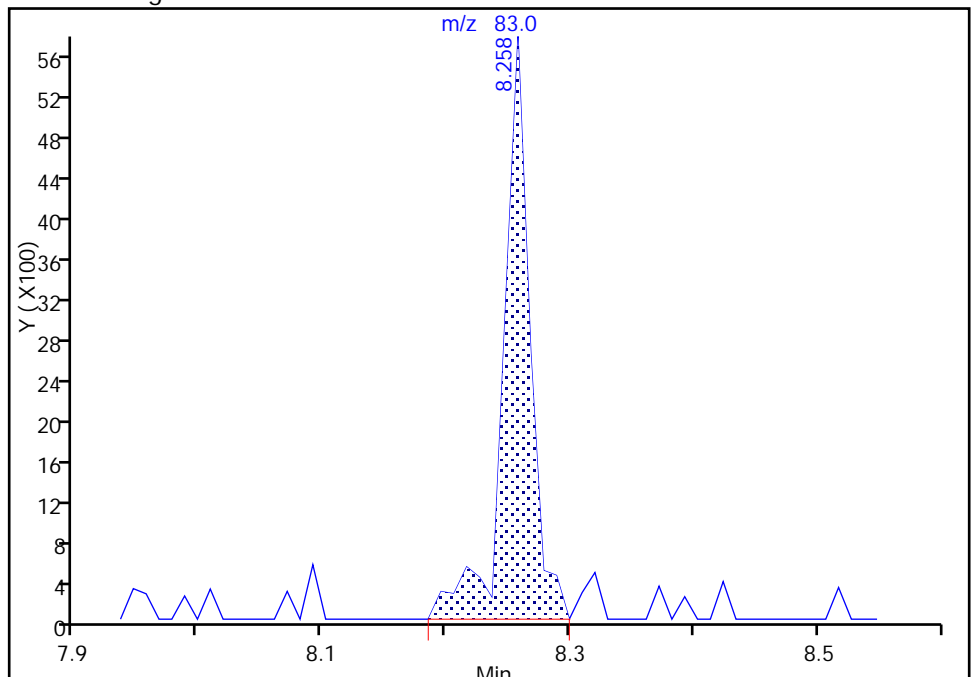
Not Detected
Expected RT: 8.26

Processing Integration Results



Manual Integration Results

RT: 8.26
Area: 8625
Amount: 1.109593
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:27:02

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

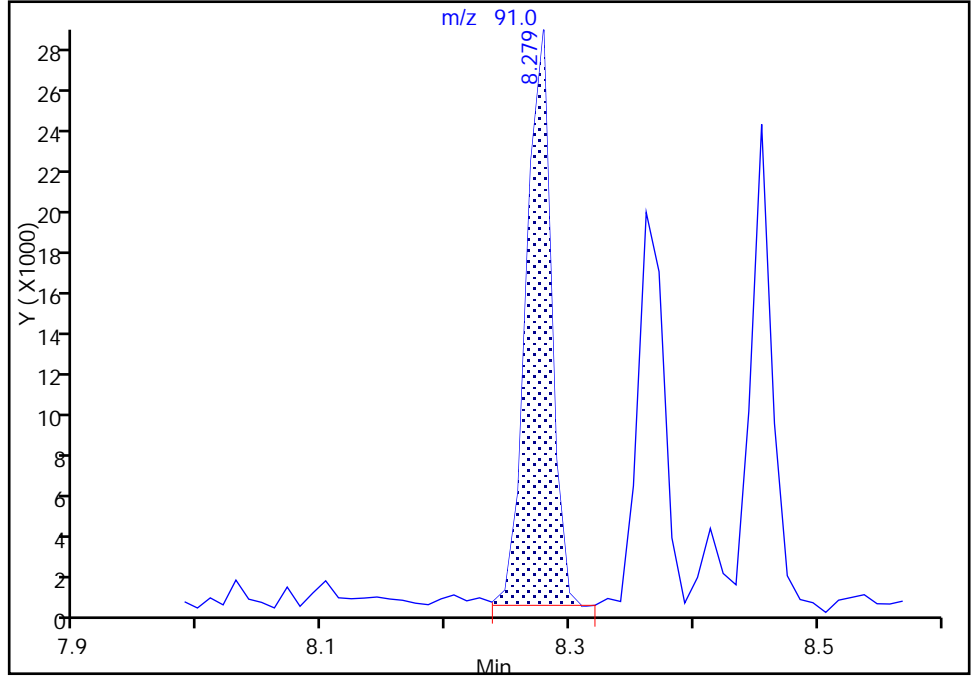
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

99 N-Propylbenzene, CAS: 103-65-1

Signal: 1

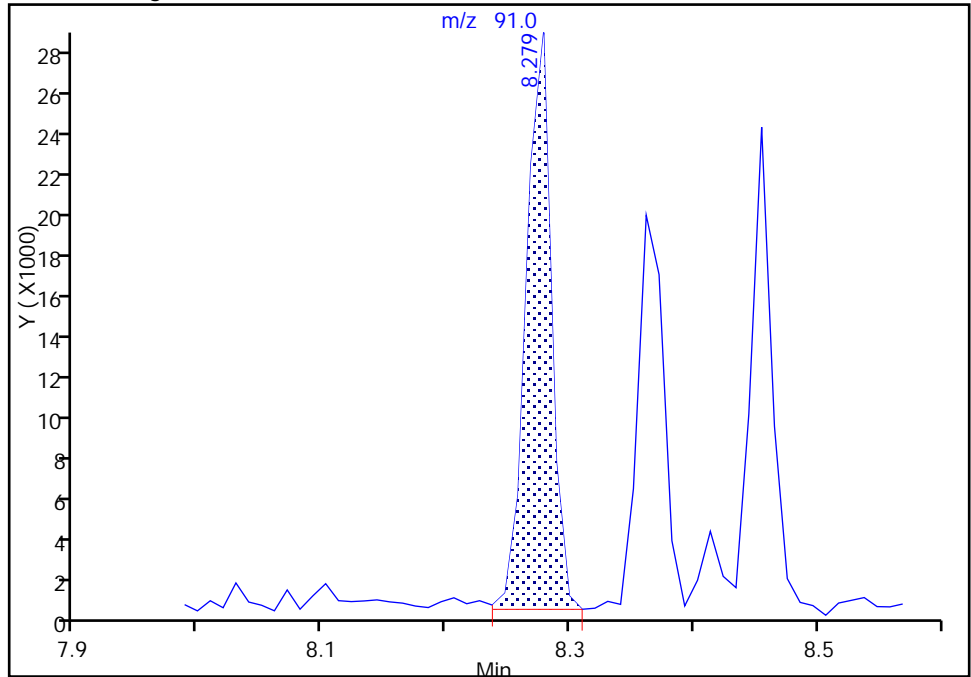
RT: 8.28
Area: 39691
Amount: 0.966668
Amount Units: ug/L

Processing Integration Results



RT: 8.28
Area: 39972
Amount: 0.972838
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:27:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

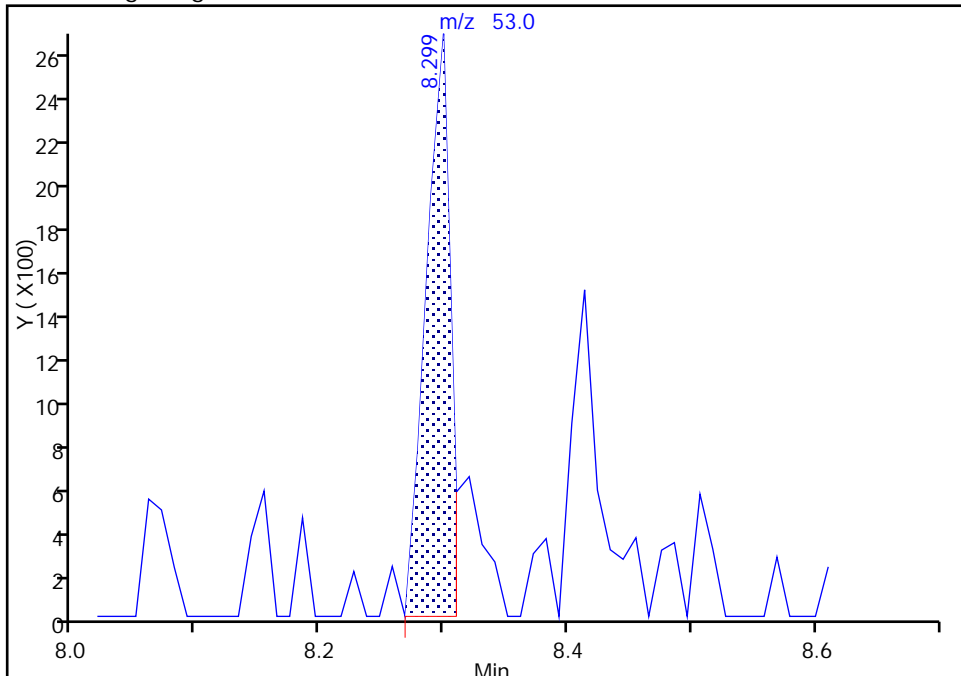
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2460.D
Injection Date: 01-Dec-2017 15:33:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RR ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

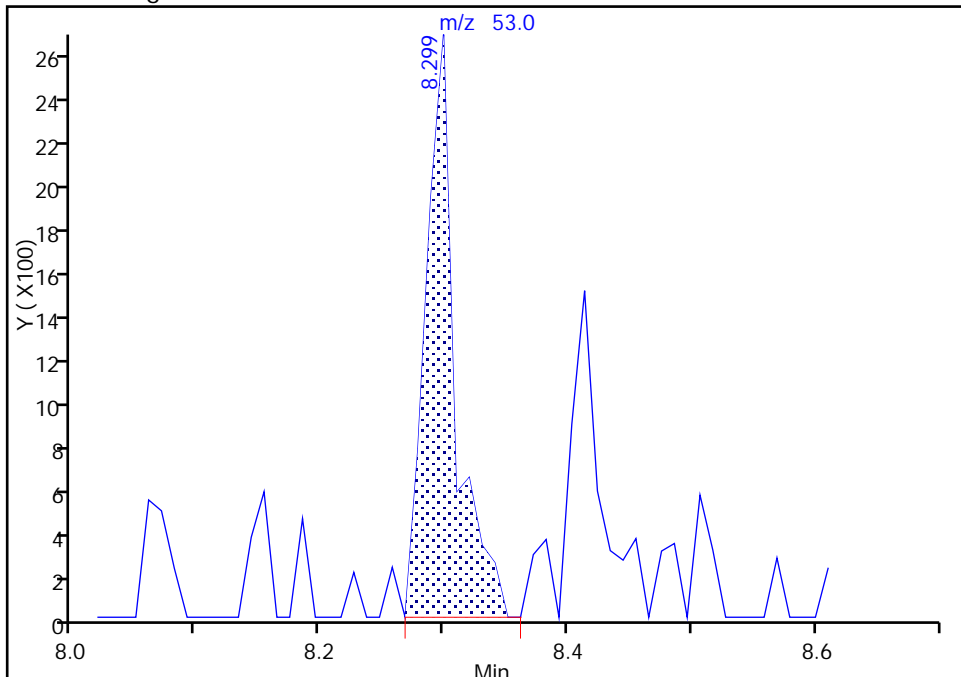
RT: 8.30
Area: 3622
Amount: 1.013498
Amount Units: ug/L

Processing Integration Results



RT: 8.30
Area: 4366
Amount: 1.190697
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:27:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Dec-2017 15:57:30 ALS Bottle#: 15 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 480-0067685-015
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:18 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 04-Dec-2017 08:26:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	147096	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	91	520973	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	302200	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	93	175876	25.0	23.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	238225	25.0	23.5	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	96	635438	25.0	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	86	208134	25.0	24.1	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	58	18375	2.00	1.94	M
13 Chloromethane	50	1.398	1.398	0.000	98	24483	2.00	1.83	
151 Butadiene	54	1.460	1.481	-0.021	88	23778	2.00	2.10	
14 Vinyl chloride	62	1.481	1.481	0.000	1	20989	2.00	2.03	M
15 Bromomethane	94	1.771	1.781	-0.010	91	11898	2.00	1.97	
16 Chloroethane	64	1.833	1.833	0.000	94	10157	2.00	1.89	
17 Trichlorofluoromethane	101	2.020	2.051	-0.031	68	22445	2.00	1.61	
18 Dichlorofluoromethane	67	2.051	2.071	-0.020	94	28372	2.00	1.78	M
19 Ethyl ether	59	2.299	2.299	0.000	88	14292	2.00	1.95	
21 Acrolein	56	2.476	2.476	0.000	75	10609	10.0	8.96	M
22 1,1-Dichloroethene	96	2.507	2.507	0.000	92	9723	2.00	1.53	M
20 1,1,2-Trichloro-1,2,2-trif	101	2.507	2.527	-0.020	56	9369	2.00	1.42	
23 Acetone	43	2.621	2.621	0.000	97	23448	10.0	8.34	
24 Iodomethane	142	2.662	2.662	0.000	86	20520	2.00	1.61	
25 Carbon disulfide	76	2.683	2.693	-0.010	97	32516	2.00	1.54	
27 3-Chloro-1-propene	41	2.849	2.849	0.000	88	27204	2.00	1.53	
28 Methyl acetate	43	2.890	2.890	0.000	99	20504	4.00	3.12	
30 Methylene Chloride	84	2.983	2.983	0.000	92	16505	2.00	1.63	
31 2-Methyl-2-propanol	59	3.139	3.149	-0.010	78	11729	20.0	17.0	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	94	37166	2.00	1.65	
32 trans-1,2-Dichloroethene	96	3.180	3.180	0.000	87	11303	2.00	1.58	
34 Acrylonitrile	53	3.242	3.242	0.000	97	52451	20.0	16.3	
35 Hexane	57	3.336	3.346	-0.010	91	25288	2.00	1.73	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	25083	2.00	1.64	
39 Vinyl acetate	43	3.584	3.584	0.000	96	74509	4.00	3.56	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	81	22513	2.00	1.72	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	13213	2.00	1.60	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	88	34486	10.0	8.53	
47 Chlorobromomethane	128	4.216	4.217	-0.001	91	6382	2.00	1.50	
48 Tetrahydrofuran	42	4.227	4.227	0.000	83	10682	4.00	3.83	M
50 Chloroform	83	4.279	4.279	0.000	96	24142	2.00	1.60	
52 Cyclohexane	56	4.372	4.372	0.000	91	25247	2.00	1.43	M
51 1,1,1-Trichloroethane	97	4.382	4.372	0.010	84	21871	2.00	1.60	
53 Carbon tetrachloride	117	4.486	4.486	0.000	85	16394	2.00	1.38	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	81	14752	2.00	1.45	
55 Benzene	78	4.652	4.652	0.000	49	43819	2.00	1.61	
56 Isobutyl alcohol	43	4.672	4.673	-0.001	39	13140	50.0	41.5	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	94	25245	2.00	1.75	
59 n-Heptane	43	4.786	4.787	0.000	93	31344	2.00	1.82	
60 Trichloroethene	95	5.139	5.139	0.000	92	13964	2.00	1.70	
62 Methylcyclohexane	83	5.232	5.232	0.000	96	20006	2.00	1.57	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	89	13679	2.00	1.67	
66 1,4-Dioxane	88	5.450	5.439	0.011	1	1265	40.0	36.4	M
65 Dibromomethane	93	5.439	5.439	0.000	88	9198	2.00	1.86	
67 Dichlorobromomethane	83	5.553	5.553	0.000	94	18569	2.00	1.66	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	91	9118	2.00	1.66	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	83	18825	2.00	1.57	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	98	72218	10.0	8.39	
73 Toluene	92	6.092	6.092	0.000	93	30224	2.00	1.79	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	1	20326	2.00	1.79	M
77 Ethyl methacrylate	69	6.331	6.331	0.000	93	15826	2.00	1.78	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	91	8647	2.00	1.74	
79 Tetrachloroethene	166	6.496	6.496	0.000	93	14008	2.00	1.71	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	87	20502	2.00	1.90	
81 2-Hexanone	43	6.621	6.621	0.000	98	55412	10.0	9.09	
82 Chlorodibromomethane	129	6.755	6.755	0.000	94	11380	2.00	1.40	
83 Ethylene Dibromide	107	6.838	6.838	0.000	96	11871	2.00	1.76	
86 Chlorobenzene	112	7.191	7.191	0.000	94	36795	2.00	1.76	
88 Ethylbenzene	91	7.253	7.253	0.000	98	58346	2.00	1.67	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	88	14747	2.00	1.71	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	22136	2.00	1.65	
91 o-Xylene	106	7.667	7.667	0.000	97	24012	2.00	1.80	
92 Styrene	104	7.688	7.688	0.000	95	40997	2.00	1.81	
93 Bromoform	173	7.885	7.885	0.000	91	8402	2.00	1.63	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	54262	2.00	1.52	
97 Bromobenzene	156	8.227	8.227	0.000	91	16207	2.00	1.71	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	64	11721	2.00	1.48	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	66397	2.00	1.59	
101 trans-1,4-Dichloro-2-buten	53	8.289	8.289	0.000	69	5188	2.00	1.39	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	90	3786	2.00	1.38	
105 2-Chlorotoluene	126	8.362	8.362	0.000	95	14068	2.00	1.64	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	98	48446	2.00	1.52	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	44931	2.00	1.65	
106 tert-Butylbenzene	134	8.673	8.673	0.000	93	10995	2.00	1.54	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	57366	2.00	1.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	95	58307	2.00	1.58	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	60009	2.00	1.67	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	96	31044	2.00	1.70	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	90	30121	2.00	1.63	
115 n-Butylbenzene	91	9.305	9.305	0.000	95	50318	2.00	1.67	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	93	31182	2.00	1.78	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.041	0.000	80	2811	2.00	1.76	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	21422	2.00	1.49	
120 Hexachlorobutadiene	225	10.797	10.787	0.010	92	12757	2.00	1.75	
121 Naphthalene	128	10.901	10.901	0.000	97	48060	2.00	1.63	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	87	22602	2.00	1.62	
S 126 Xylenes, Total	1				0			3.45	
S 123 1,3-Dichloropropene, Total	1				0			3.36	
S 124 1,2-Dichloroethene, Total	1				0			3.18	
S 125 Total BTEX	1				0			8.53	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00253

Amount Added: 2.00

Units: uL

8260 CORP mix_00116

Amount Added: 2.00

Units: uL

T_8260_IS_00180

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00164

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D

Injection Date: 01-Dec-2017 15:57:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 2

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

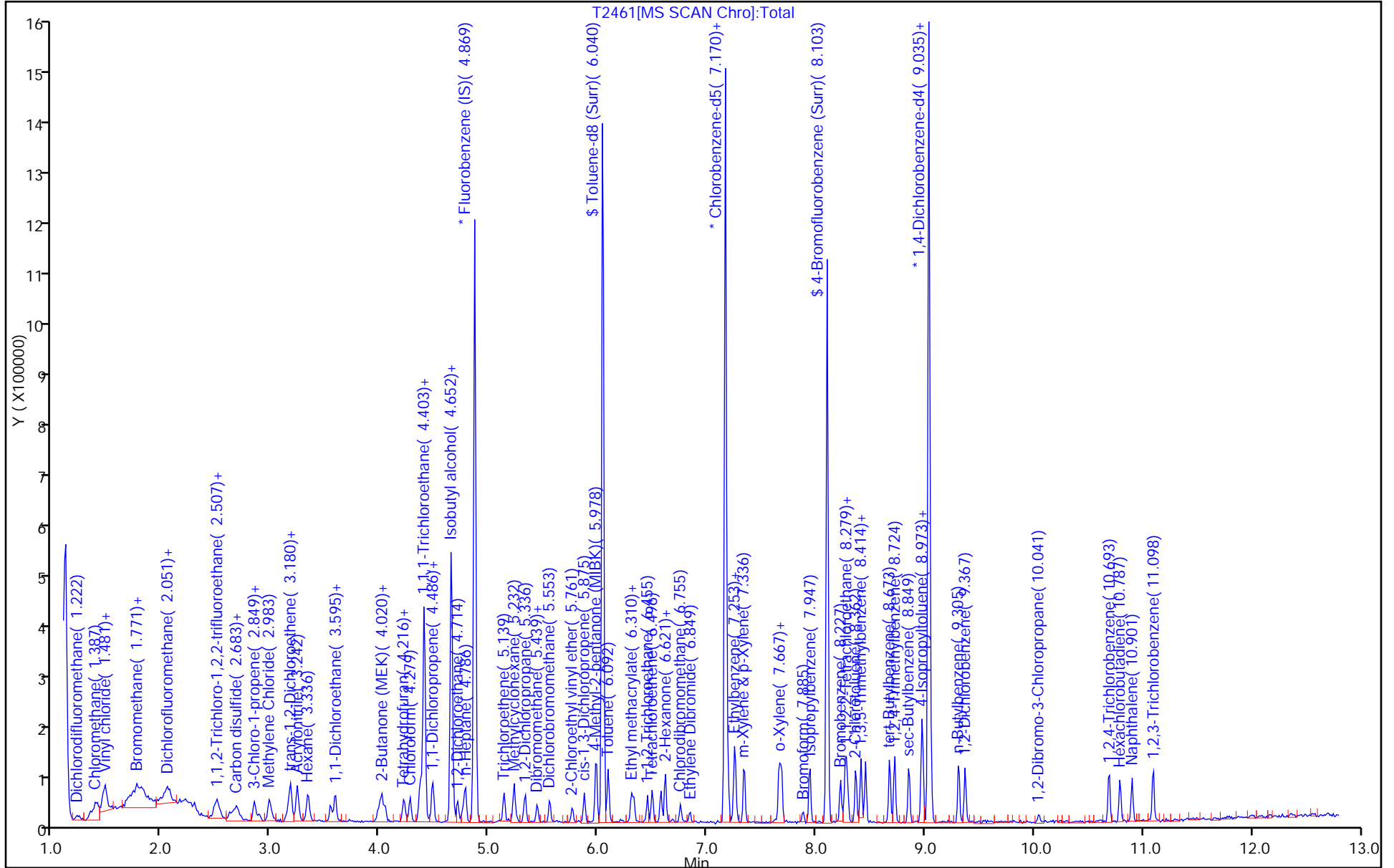
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

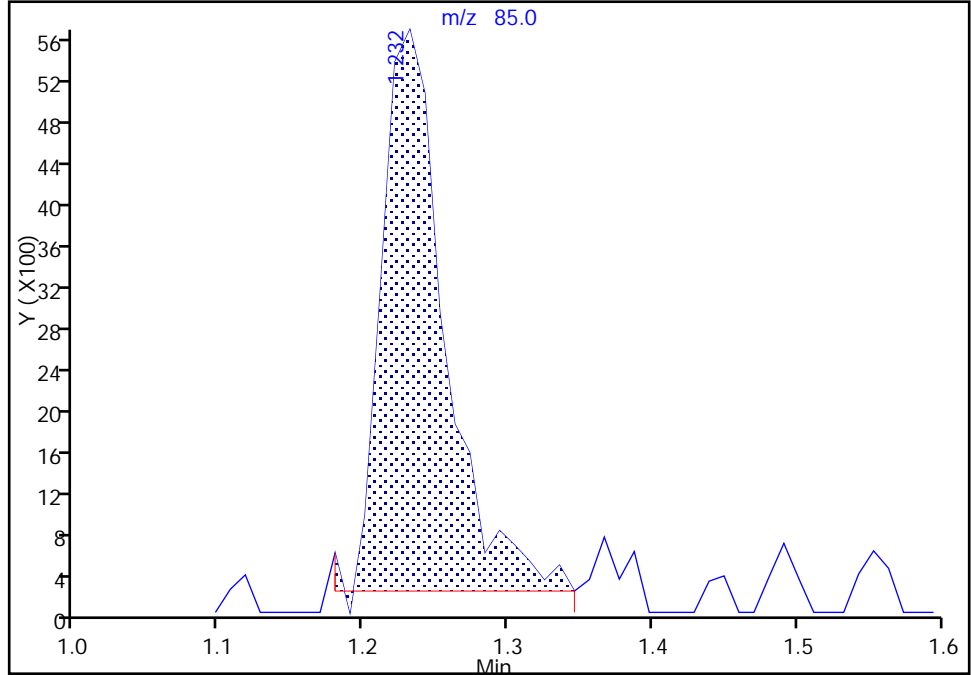
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

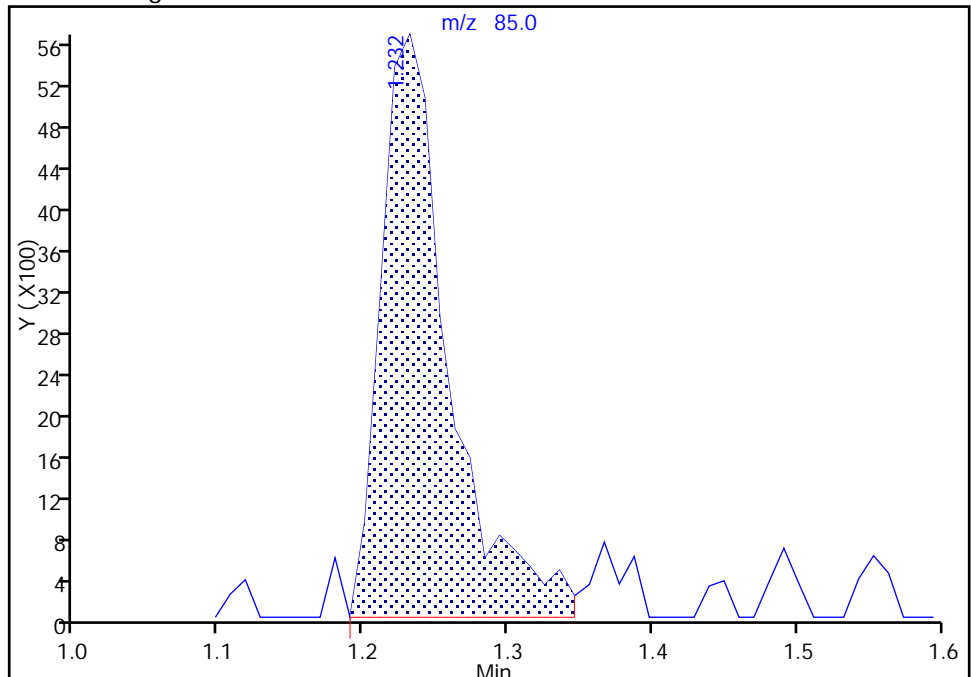
RT: 1.23
Area: 16564
Amount: 1.570931
Amount Units: ug/L

Processing Integration Results



RT: 1.23
Area: 18375
Amount: 1.935290
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:28:08
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

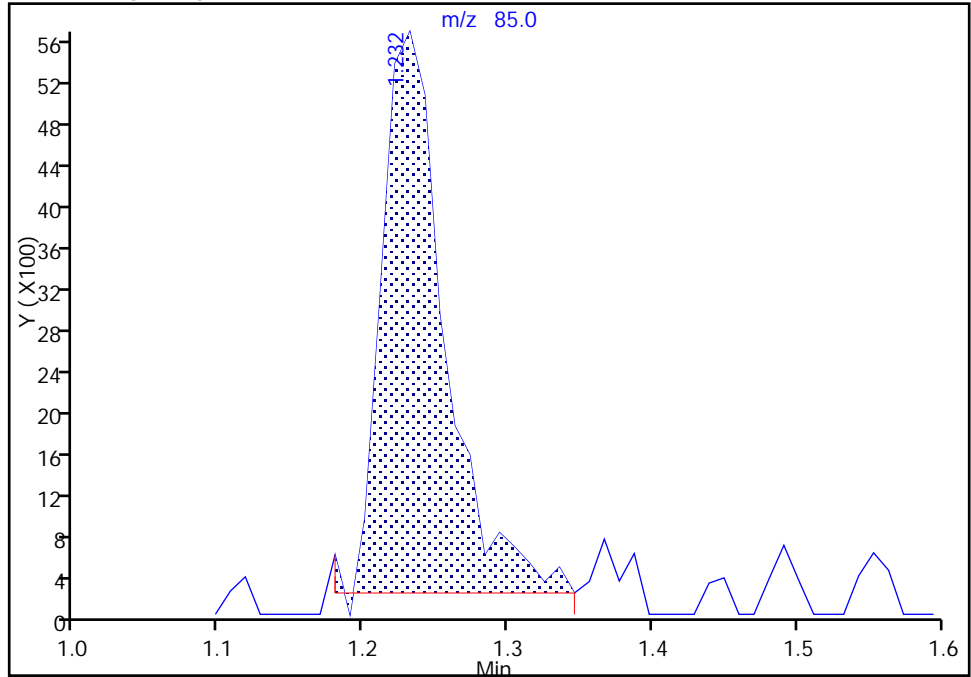
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

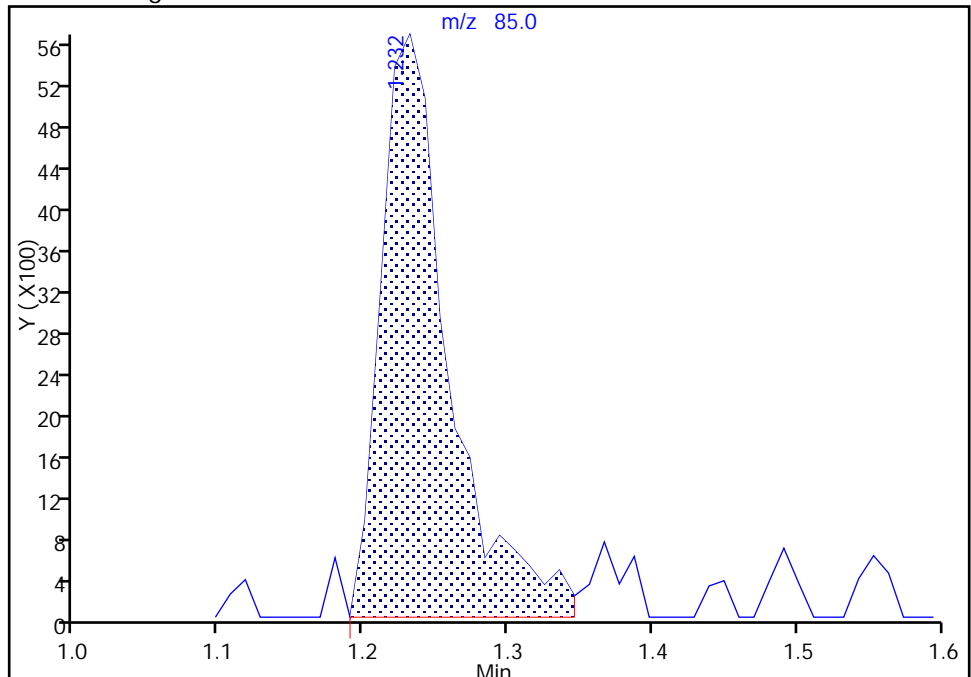
RT: 1.23
Area: 16564
Amount: 1.570931
Amount Units: ug/L

Processing Integration Results



RT: 1.23
Area: 18375
Amount: 1.935290
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:28:30

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

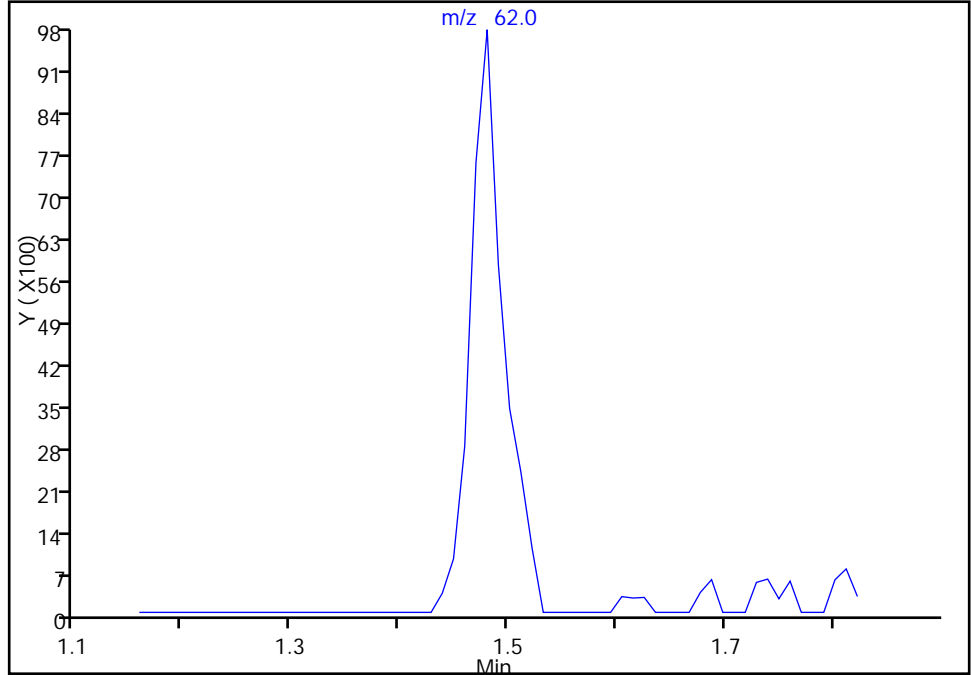
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

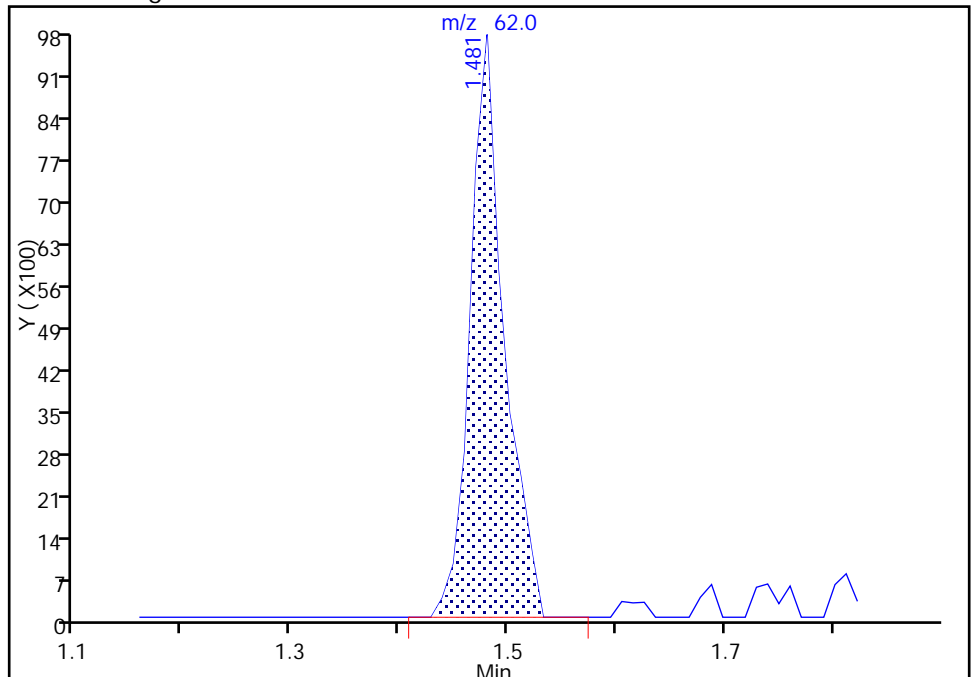
Not Detected
Expected RT: 1.48

Processing Integration Results



Manual Integration Results

RT: 1.48
Area: 20989
Amount: 2.028158
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:28:39
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

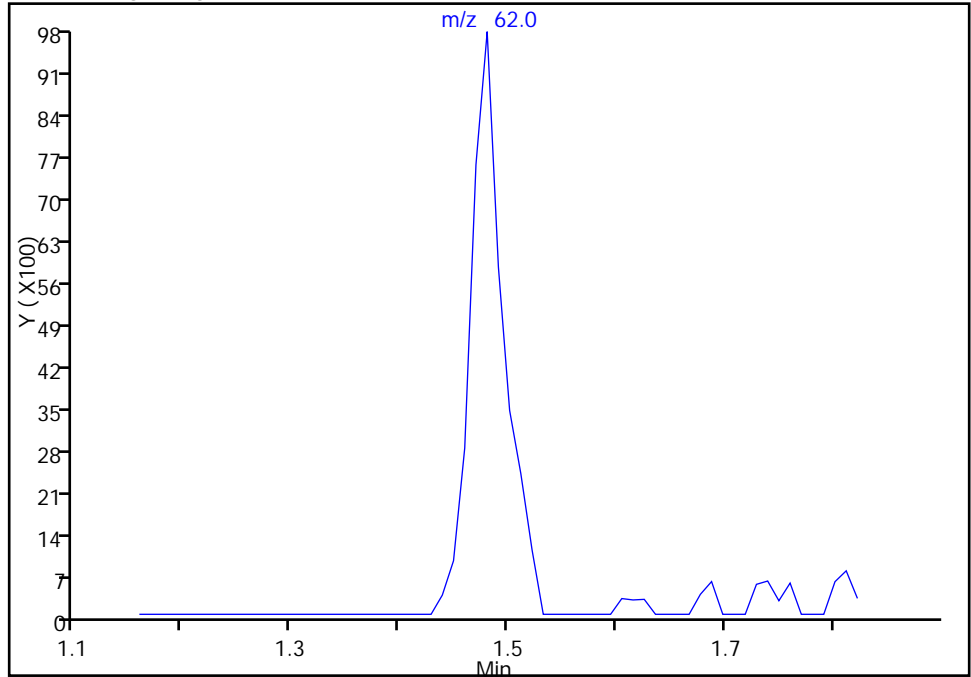
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Signal: 1

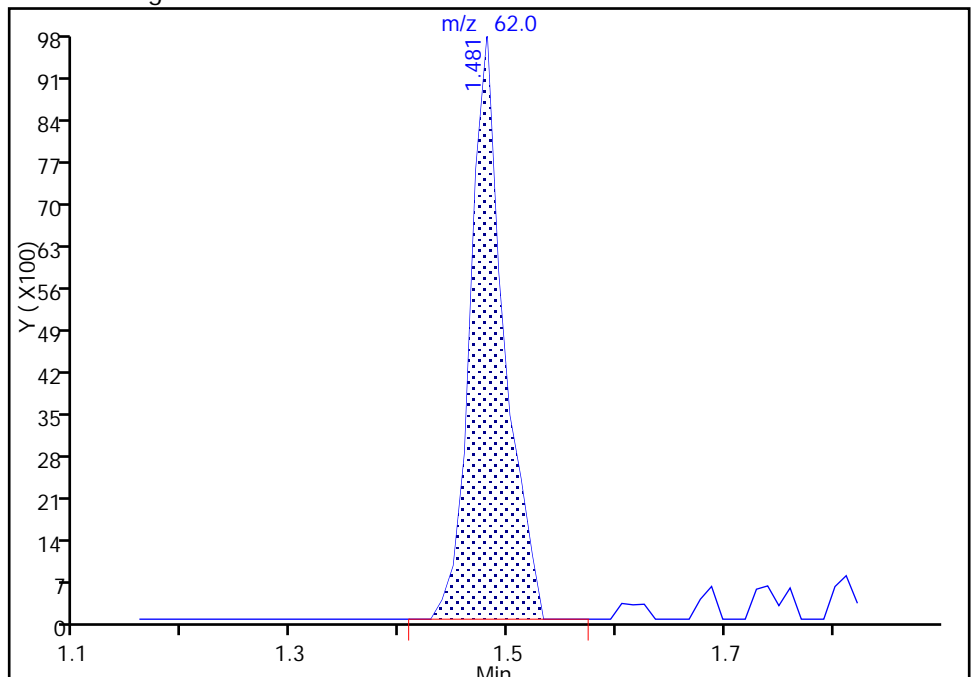
Not Detected
Expected RT: 1.48

Processing Integration Results



Manual Integration Results

RT: 1.48
Area: 20989
Amount: 2.028158
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:28:44

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

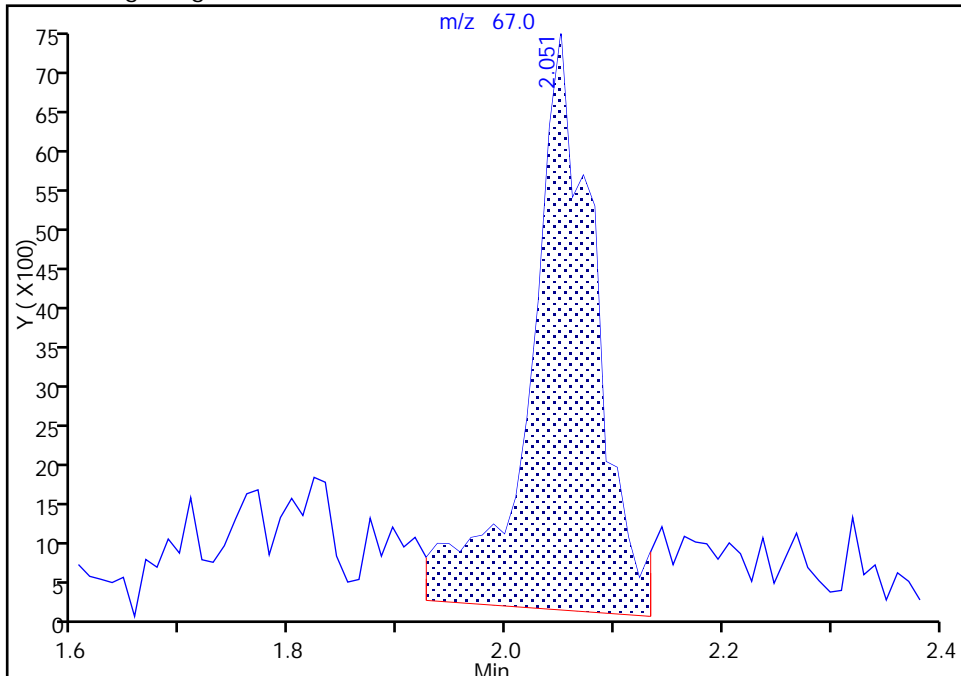
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

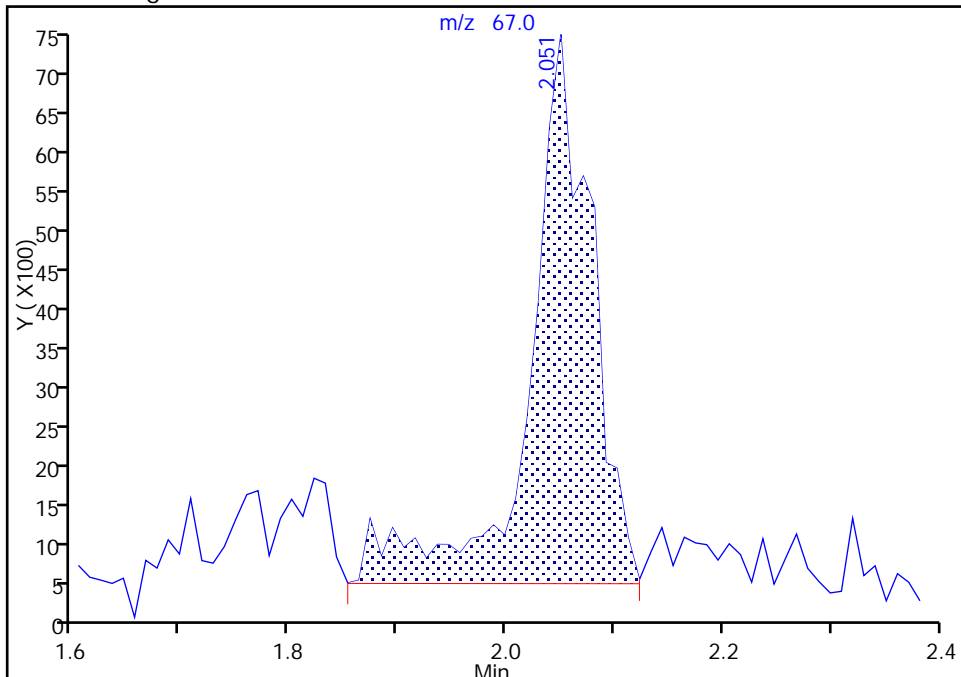
RT: 2.05
Area: 31072
Amount: 1.950856
Amount Units: ug/L

Processing Integration Results



RT: 2.05
Area: 28372
Amount: 1.779323
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:29:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

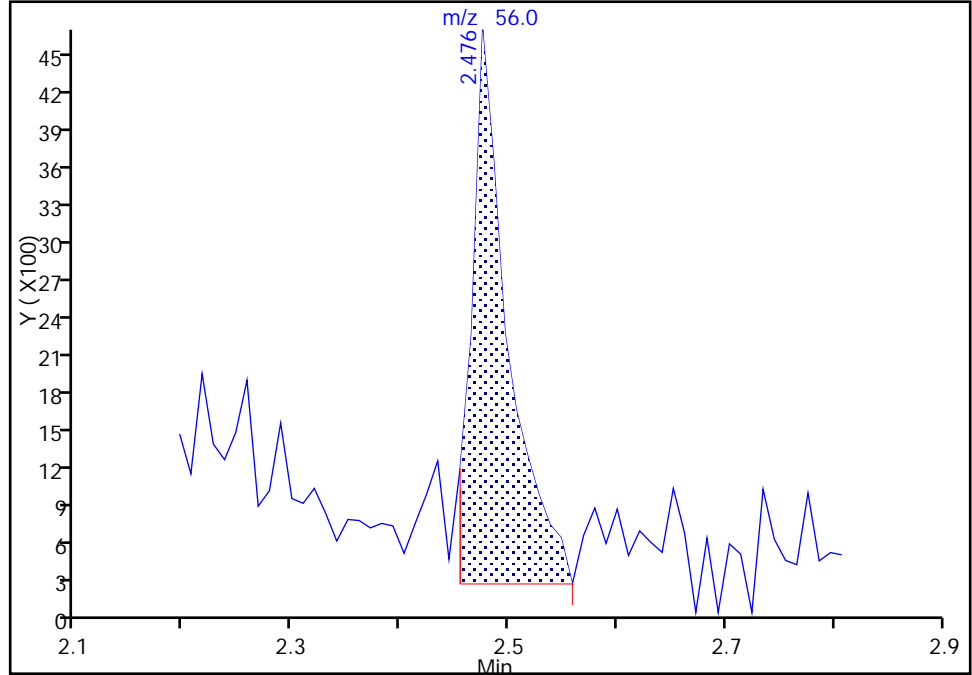
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 Acrolein, CAS: 107-02-8

Signal: 1

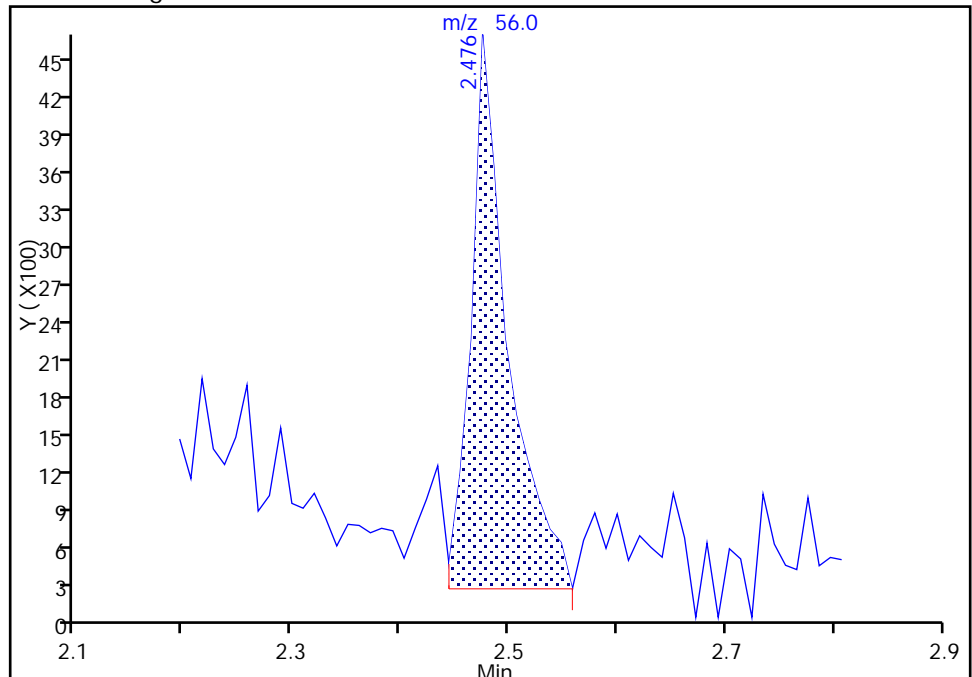
RT: 2.48
Area: 10484
Amount: 8.865693
Amount Units: ug/L

Processing Integration Results



RT: 2.48
Area: 10609
Amount: 8.959559
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:29:37
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo

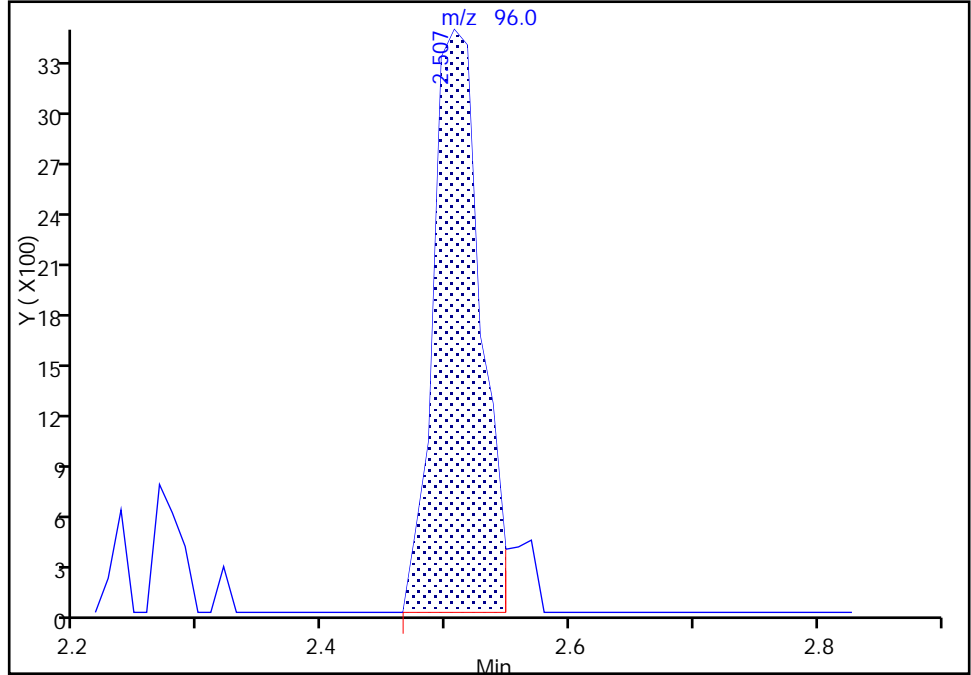
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

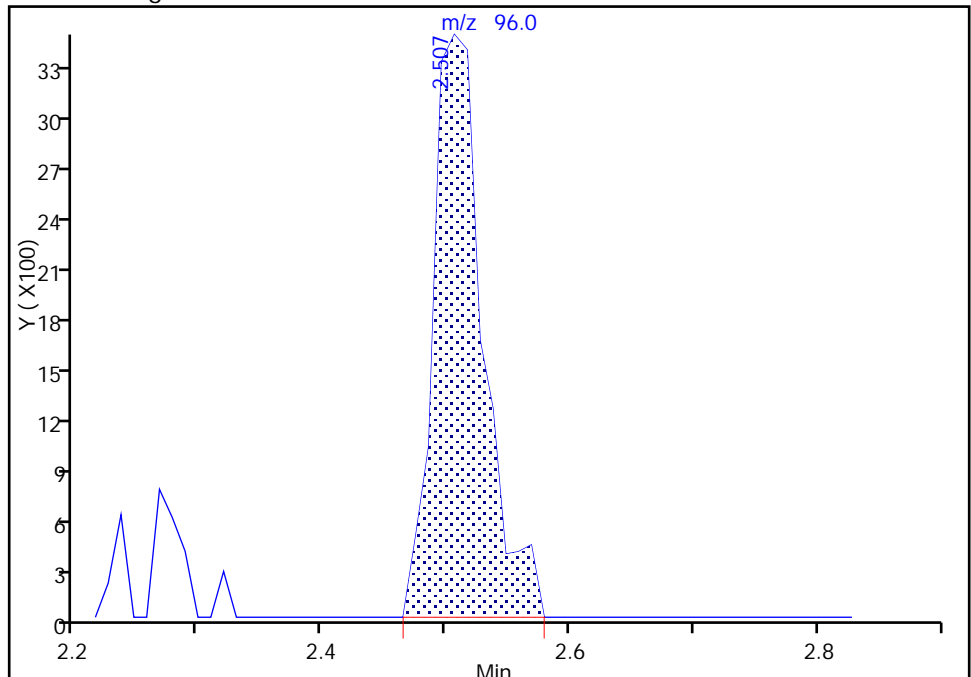
RT: 2.51
Area: 9217
Amount: 1.458782
Amount Units: ug/L

Processing Integration Results



RT: 2.51
Area: 9723
Amount: 1.529151
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:29:43
Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

TestAmerica Buffalo

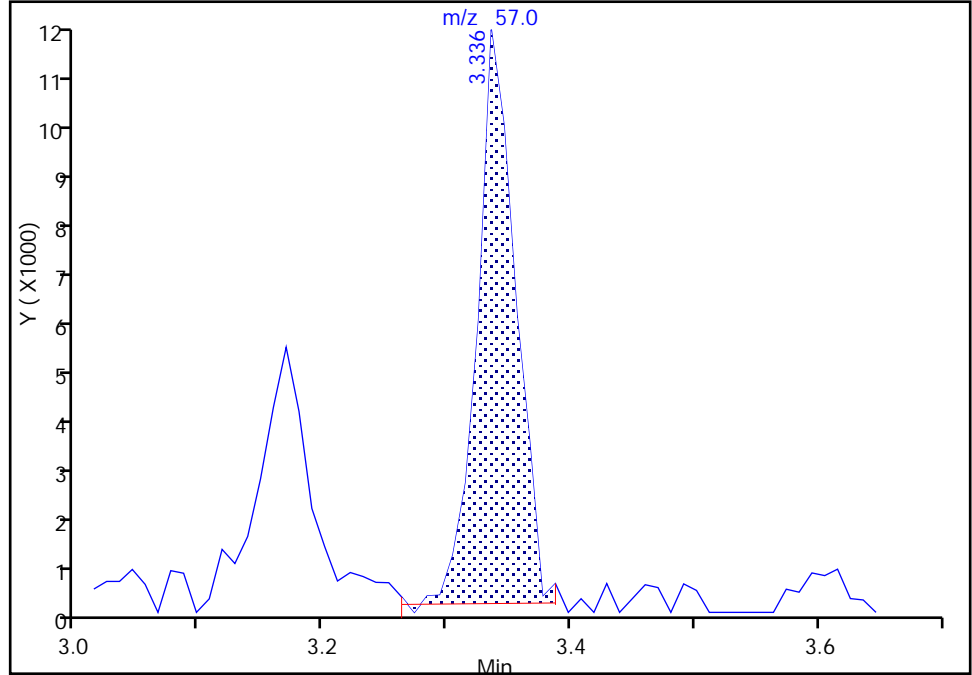
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

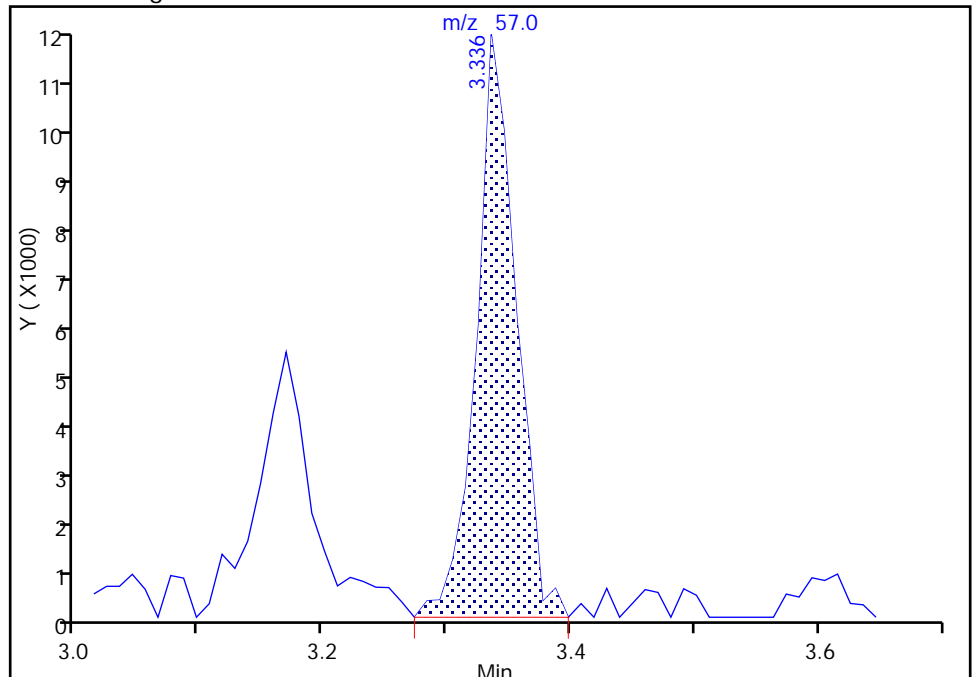
RT: 3.34
Area: 24110
Amount: 1.417730
Amount Units: ug/L

Processing Integration Results



RT: 3.34
Area: 25288
Amount: 1.732962
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:30:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

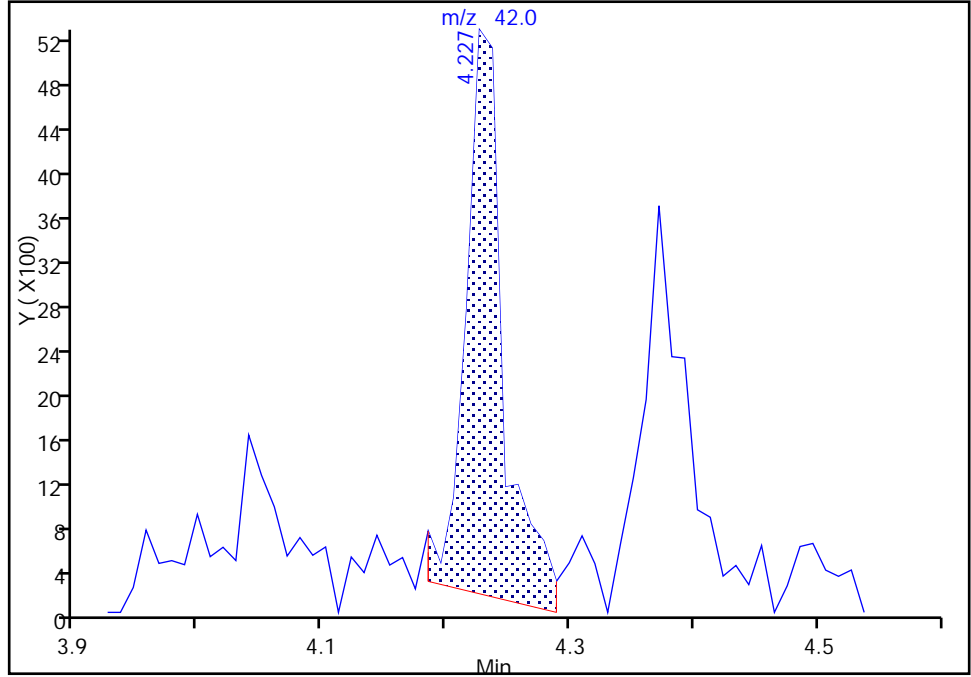
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

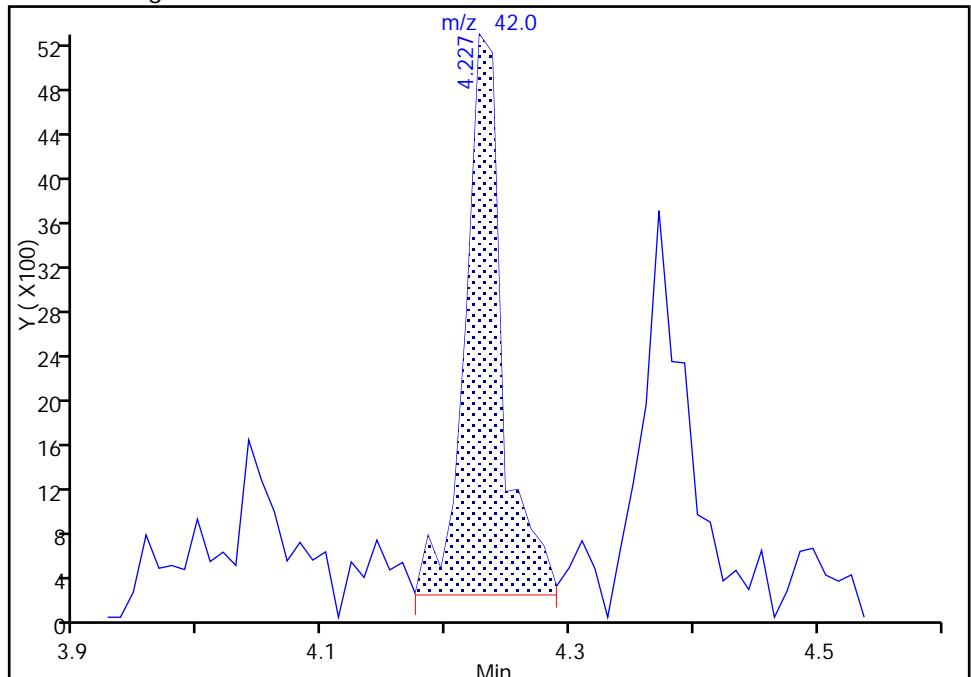
RT: 4.23
Area: 11096
Amount: 3.243365
Amount Units: ug/L

Processing Integration Results



RT: 4.23
Area: 10682
Amount: 3.833683
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:30:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

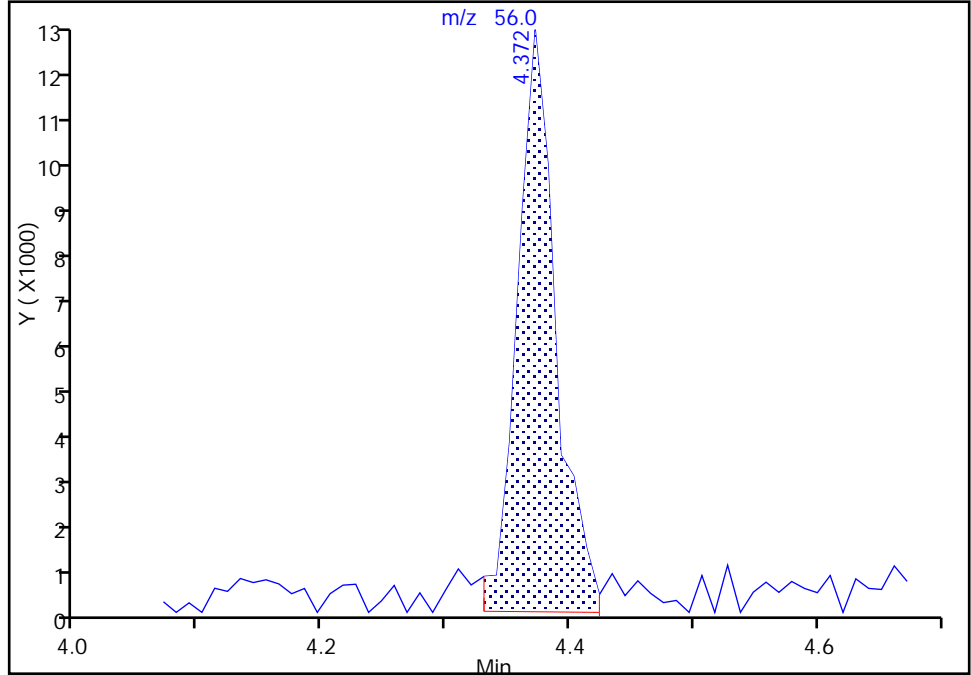
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

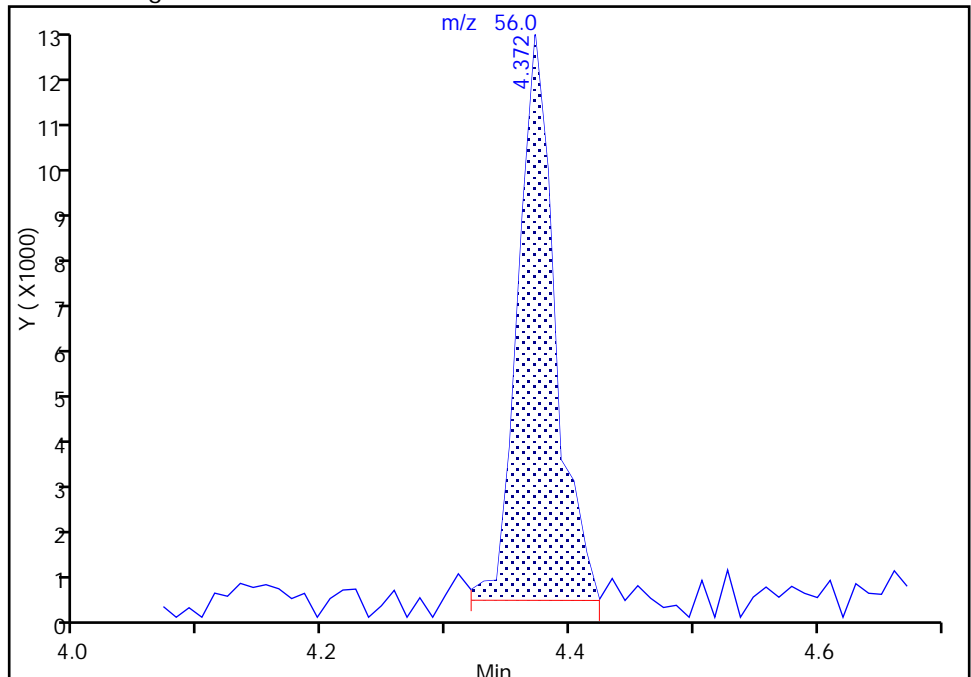
RT: 4.37
Area: 27285
Amount: 1.475505
Amount Units: ug/L

Processing Integration Results



RT: 4.37
Area: 25247
Amount: 1.431208
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:32:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

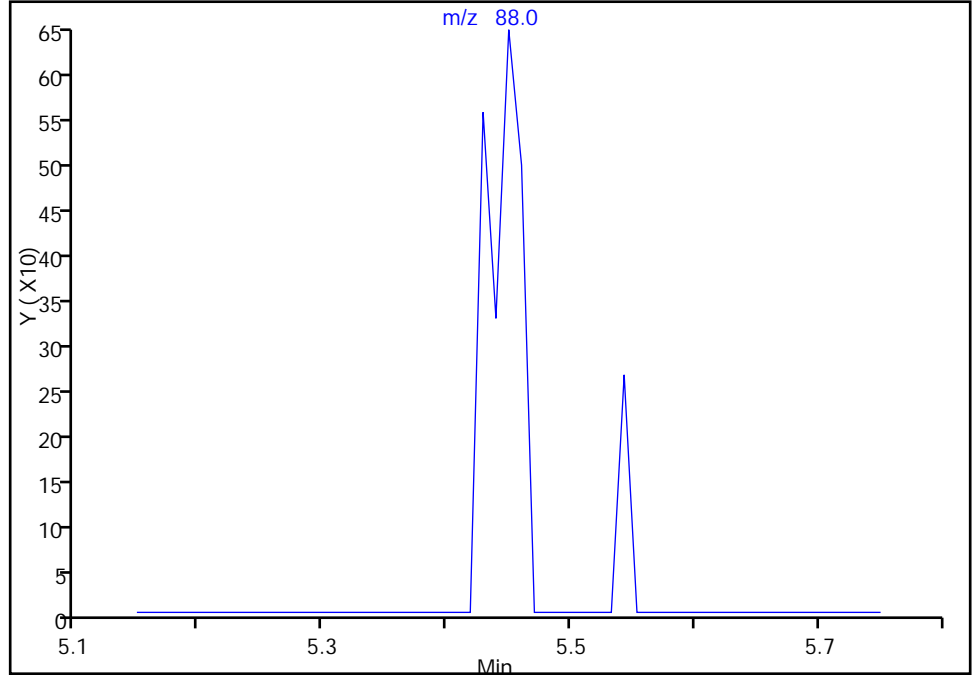
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

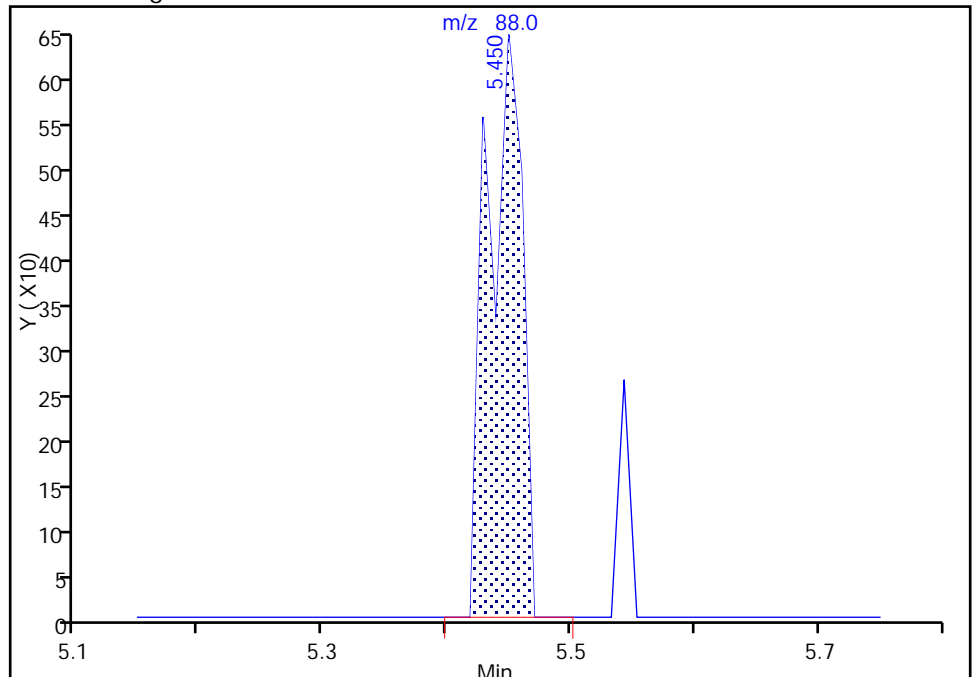
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 1265
Amount: 36.354088
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:25:47
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

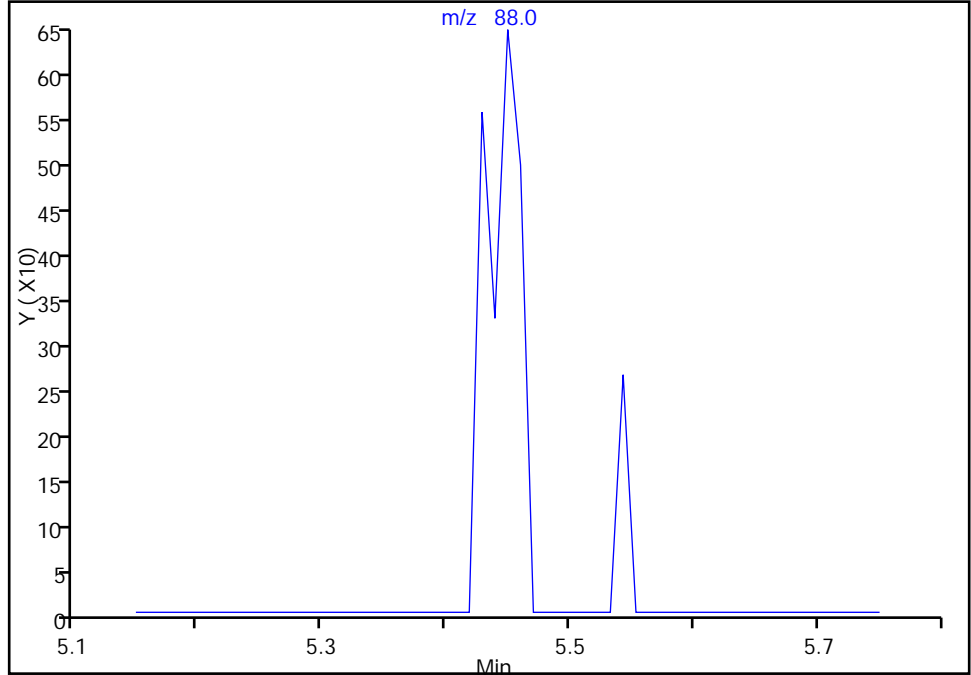
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

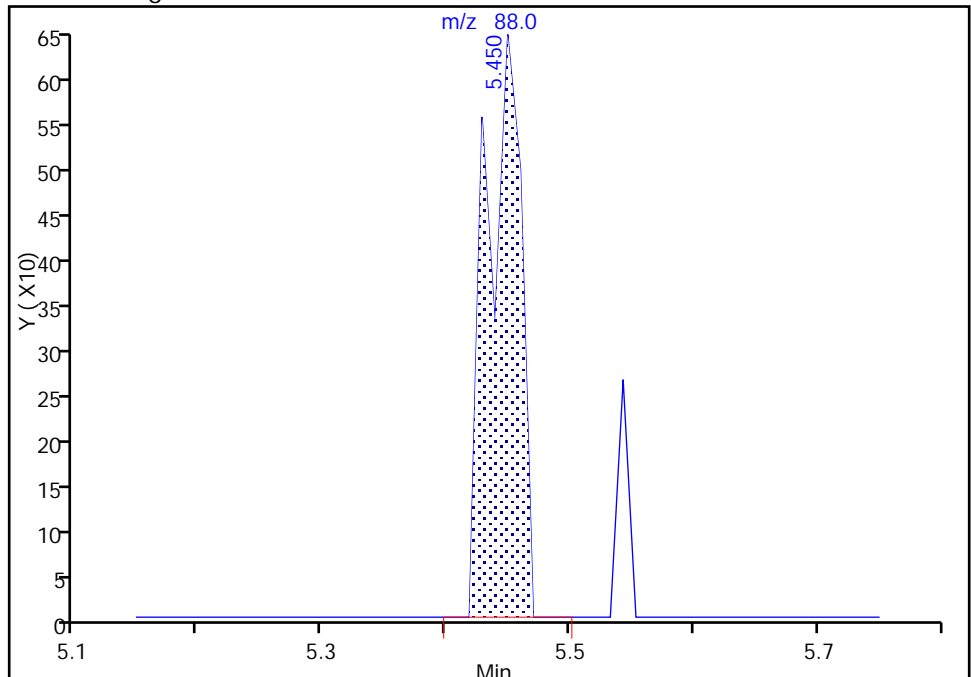
Not Detected
Expected RT: 5.44

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 1265
Amount: 36.354088
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:25:50

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

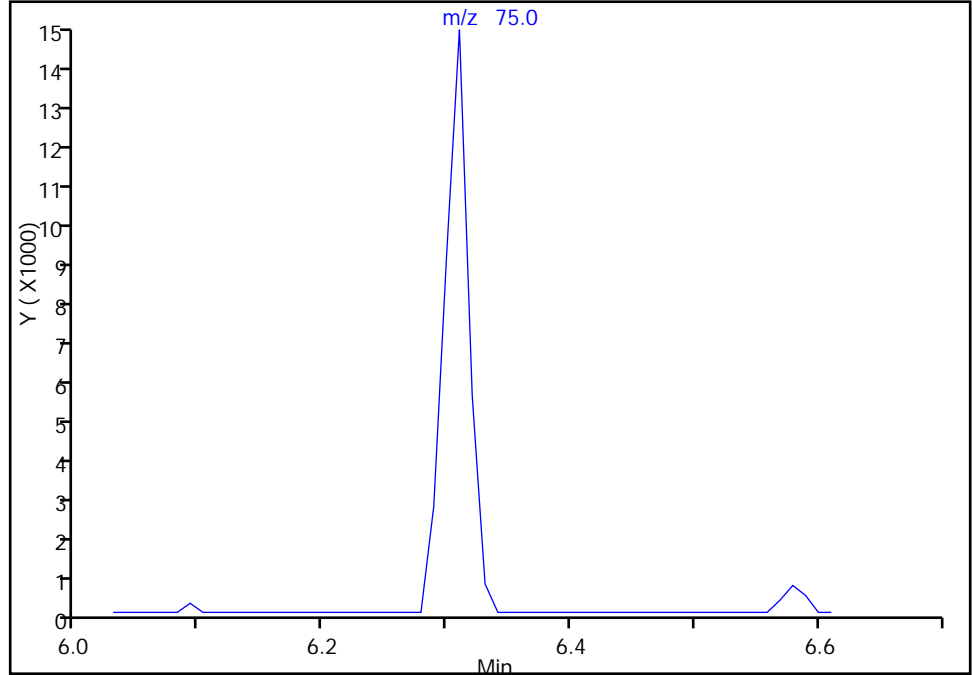
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

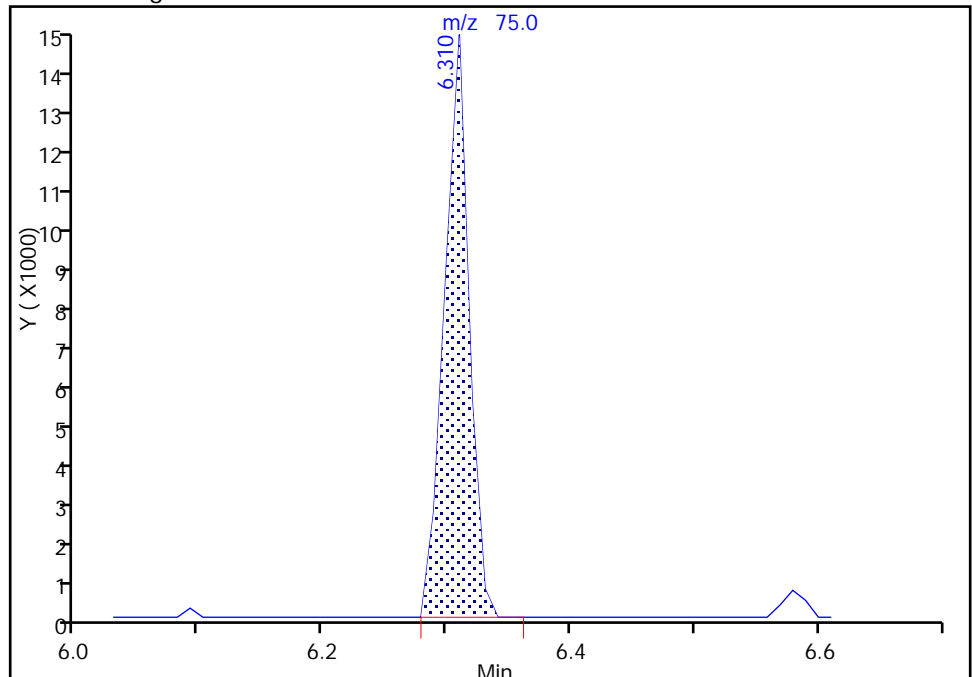
Not Detected
Expected RT: 6.31

Processing Integration Results



Manual Integration Results

RT: 6.31
Area: 20326
Amount: 1.789654
Amount Units: ug/L



Reviewer: reiler, 04-Dec-2017 08:36:45
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

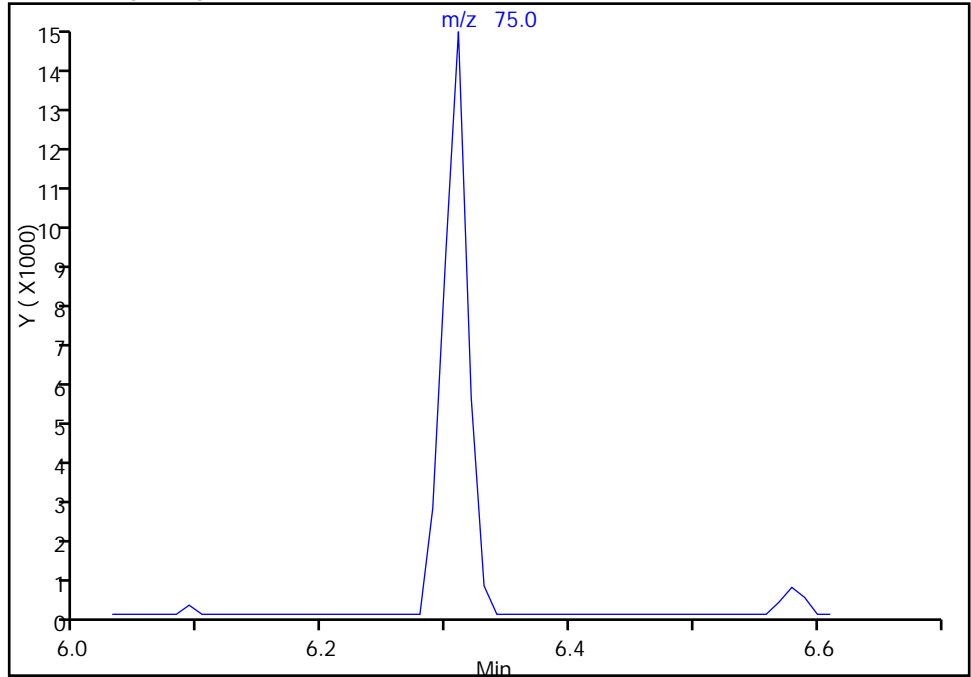
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2461.D
Injection Date: 01-Dec-2017 15:57:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RR ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

75 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

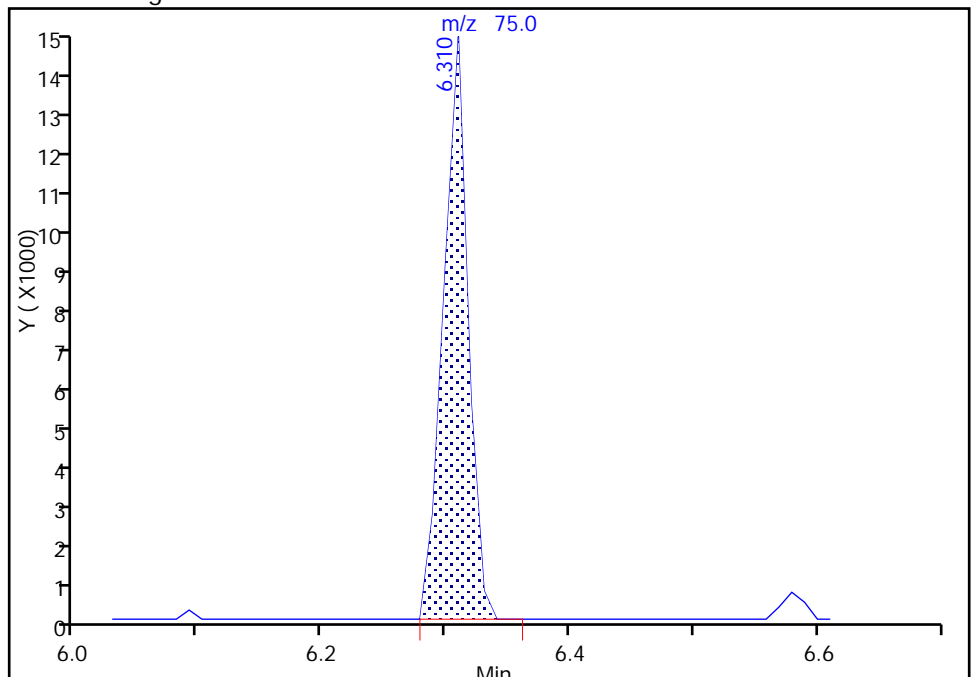
Not Detected
Expected RT: 6.31

Processing Integration Results



Manual Integration Results

RT: 6.31
Area: 20326
Amount: 1.789654
Amount Units: ug/L



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2462.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Dec-2017 16:20:30 ALS Bottle#: 16 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 3
 Misc. Info.: 480-0067685-016
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:21 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler Date: 04-Dec-2017 08:52:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	139147	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	521145	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	296144	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.403	0.010	93	183863	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.652	0.010	0	238522	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	644255	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	-0.001	88	208881	25.0	24.2	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	98	47054	5.00	5.24	
13 Chloromethane	50	1.408	1.398	0.010	98	67860	5.00	5.35	
14 Vinyl chloride	62	1.491	1.481	0.010	97	50621	5.00	5.17	
151 Butadiene	54	1.491	1.481	0.010	95	54795	5.00	5.11	
15 Bromomethane	94	1.781	1.781	0.000	93	30943	5.00	5.41	
16 Chloroethane	64	1.843	1.833	0.010	94	25907	5.00	5.11	
17 Trichlorofluoromethane	101	2.030	2.051	-0.021	82	64737	5.00	4.90	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	93	73496	5.00	5.38	
19 Ethyl ether	59	2.310	2.299	0.011	95	37670	5.00	5.43	M
21 Acrolein	56	2.486	2.476	0.010	97	29198	25.0	26.1	
22 1,1-Dichloroethene	96	2.506	2.507	-0.001	94	31062	5.00	5.16	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.527	-0.010	59	32559	5.00	5.22	
23 Acetone	43	2.631	2.621	0.010	90	62233	25.0	23.4	
24 Iodomethane	142	2.672	2.662	0.010	97	64580	5.00	5.36	
25 Carbon disulfide	76	2.693	2.693	0.000	99	110464	5.00	5.53	
27 3-Chloro-1-propene	41	2.859	2.849	0.010	87	88434	5.00	5.25	
28 Methyl acetate	43	2.900	2.890	0.010	100	62787	10.0	10.1	
30 Methylene Chloride	84	2.994	2.983	0.011	90	40483	5.00	5.06	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	69	36895	50.0	56.6	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	95	110365	5.00	5.17	
32 trans-1,2-Dichloroethene	96	3.190	3.180	0.010	91	36951	5.00	5.47	
34 Acrylonitrile	53	3.242	3.242	0.000	95	157079	50.0	51.7	
35 Hexane	57	3.346	3.346	0.000	92	74481	5.00	5.40	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	96	77543	5.00	5.36	
39 Vinyl acetate	43	3.595	3.584	0.011	97	200272	10.0	10.1	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	89	64182	5.00	5.19	
43 cis-1,2-Dichloroethene	96	4.019	4.020	-0.001	87	41302	5.00	5.27	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	92699	25.0	24.2	
47 Chlorobromomethane	128	4.216	4.217	-0.001	89	19930	5.00	4.96	
48 Tetrahydrofuran	42	4.237	4.227	0.010	91	26491	10.0	10.1	M
50 Chloroform	83	4.279	4.279	0.000	95	75232	5.00	5.26	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	90	72162	5.00	5.59	
52 Cyclohexane	56	4.372	4.372	0.000	91	88562	5.00	5.31	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	85	49987	5.00	5.18	
53 Carbon tetrachloride	117	4.486	4.486	0.000	95	59813	5.00	5.32	
55 Benzene	78	4.662	4.652	0.010	69	140168	5.00	5.45	
56 Isobutyl alcohol	43	4.672	4.673	-0.001	65	37291	125.0	124.6	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	97	70576	5.00	5.16	
59 n-Heptane	43	4.786	4.787	0.000	96	83884	5.00	5.14	
60 Trichloroethene	95	5.139	5.139	0.000	94	43046	5.00	5.54	
62 Methylcyclohexane	83	5.232	5.232	0.000	96	61474	5.00	5.10	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	88	41534	5.00	5.37	
65 Dibromomethane	93	5.439	5.439	0.000	89	24856	5.00	5.30	
66 1,4-Dioxane	88	5.450	5.439	0.011	33	3222	100.0	92.6	
67 Dichlorobromomethane	83	5.553	5.553	0.000	96	55119	5.00	5.19	
69 2-Chloroethyl vinyl ether	63	5.760	5.761	-0.001	88	26290	5.00	5.07	
71 cis-1,3-Dichloropropene	75	5.874	5.875	-0.001	87	62414	5.00	5.49	
72 4-Methyl-2-pentanone (MIBK)	43	5.988	5.978	0.010	99	218534	25.0	25.4	
73 Toluene	92	6.092	6.092	0.000	97	89972	5.00	5.33	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	86	56124	5.00	4.94	
77 Ethyl methacrylate	69	6.330	6.331	-0.001	90	43253	5.00	4.87	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	93	26131	5.00	5.26	
79 Tetrachloroethene	166	6.496	6.496	0.000	93	41210	5.00	5.02	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	90	54603	5.00	5.07	
81 2-Hexanone	43	6.621	6.621	0.000	98	152153	25.0	25.0	
82 Chlorodibromomethane	129	6.755	6.755	0.000	90	41367	5.00	5.10	
83 Ethylene Dibromide	107	6.838	6.838	0.000	97	33641	5.00	4.98	
86 Chlorobenzene	112	7.191	7.191	0.000	93	110172	5.00	5.26	
88 Ethylbenzene	91	7.253	7.253	0.000	99	173679	5.00	4.98	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	90	43108	5.00	5.01	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	69075	5.00	5.14	
91 o-Xylene	106	7.667	7.667	0.000	98	71206	5.00	5.35	
92 Styrene	104	7.688	7.688	0.000	93	117738	5.00	5.19	
93 Bromoform	173	7.885	7.885	0.000	94	26289	5.00	5.10	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	183681	5.00	5.24	
97 Bromobenzene	156	8.227	8.227	0.000	93	49864	5.00	5.35	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	95	39410	5.00	5.09	
99 N-Propylbenzene	91	8.279	8.279	0.000	98	219756	5.00	5.37	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	91	16235	5.00	6.04	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.289	0.010	85	18007	5.00	4.93	
105 2-Chlorotoluene	126	8.372	8.362	0.010	95	44986	5.00	5.37	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	95	160585	5.00	5.15	
102 4-Chlorotoluene	91	8.455	8.455	0.000	97	138768	5.00	5.21	
106 tert-Butylbenzene	134	8.683	8.673	0.010	94	35254	5.00	5.04	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	97	173138	5.00	5.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	95	190833	5.00	5.28	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	98	191609	5.00	5.43	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	97	92819	5.00	5.19	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	94	95382	5.00	5.28	
115 n-Butylbenzene	91	9.315	9.305	0.010	98	152713	5.00	5.17	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	94	88351	5.00	5.14	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.041	-0.001	78	7776	5.00	4.97	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	93	68978	5.00	4.91	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	95	32396	5.00	4.53	
121 Naphthalene	128	10.901	10.901	0.000	97	148355	5.00	5.12	
122 1,2,3-Trichlorobenzene	180	11.097	11.098	-0.001	95	75313	5.00	5.50	
S 124 1,2-Dichloroethene, Total	1				0			10.7	
S 125 Total BTEX	1				0			26.2	
S 126 Xylenes, Total	1				0			10.5	
S 123 1,3-Dichloropropene, Total	1				0			10.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00116	Amount Added: 5.00	Units: uL	
GAS CORP mix_00253	Amount Added: 5.00	Units: uL	
T_8260_IS_00180	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2462.D

Injection Date: 01-Dec-2017 16:20:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 3

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

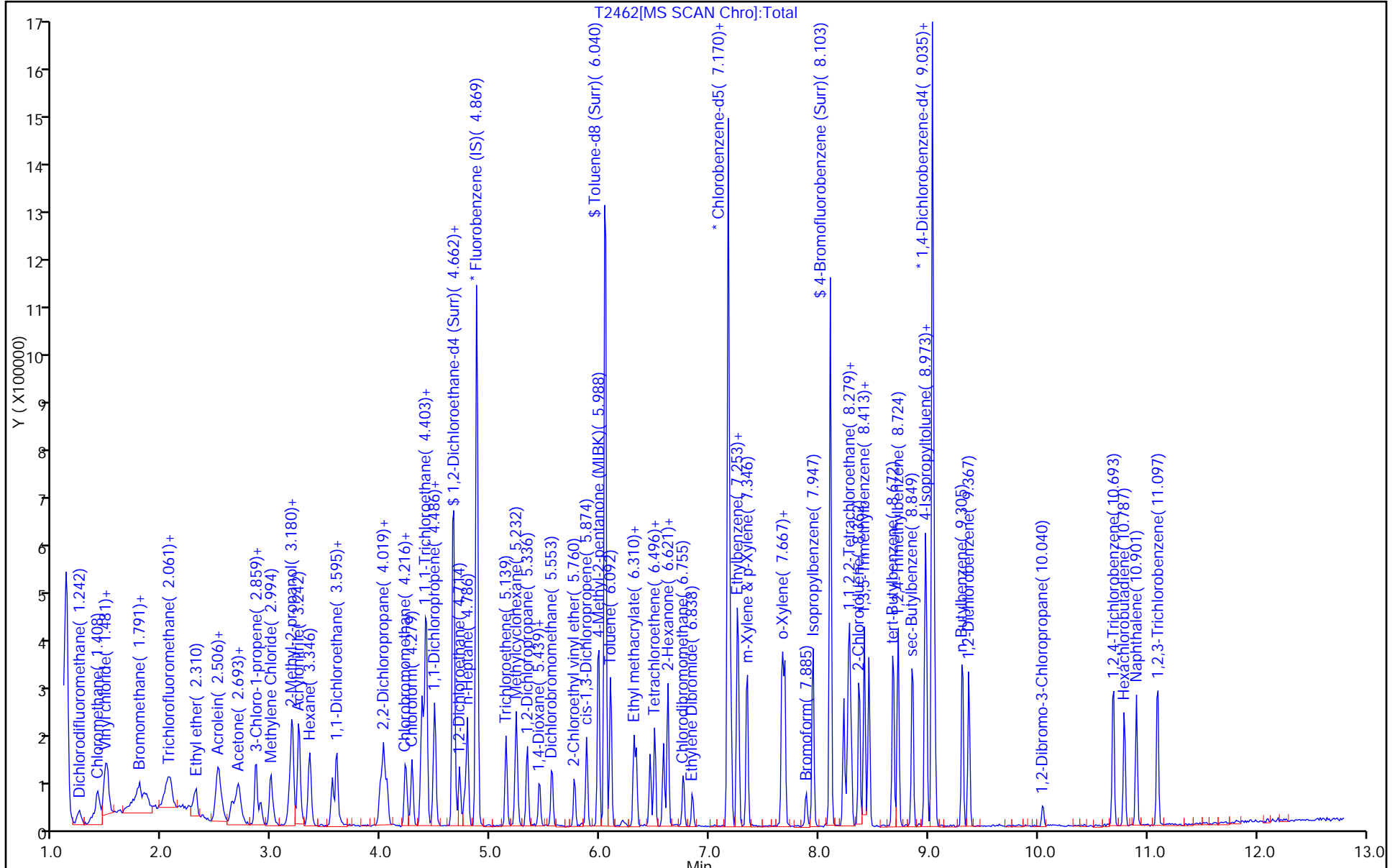
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

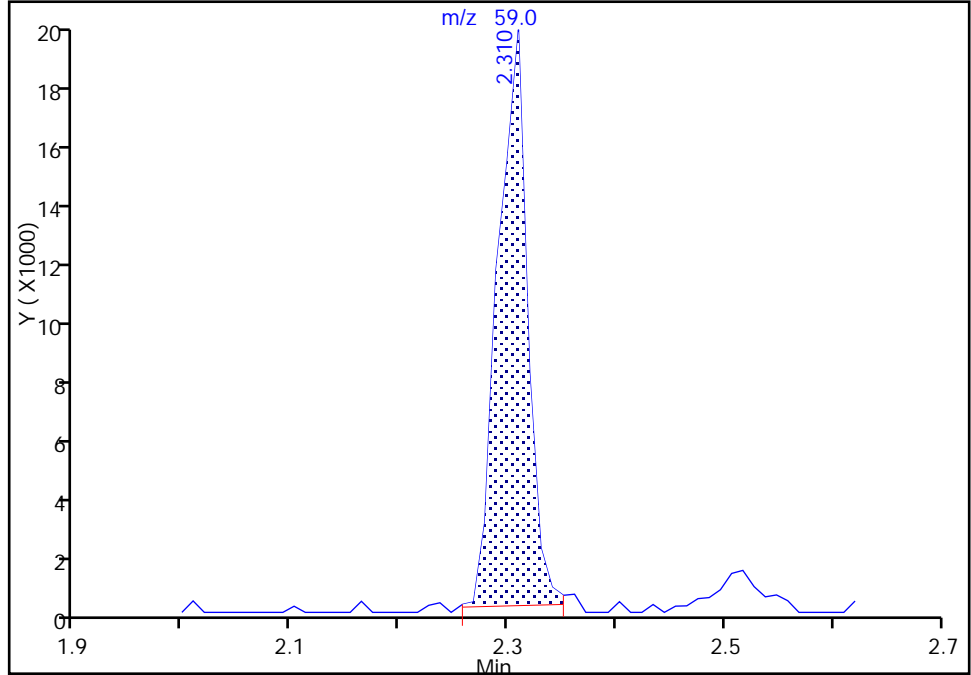
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2462.D
Injection Date: 01-Dec-2017 16:20:30 Instrument ID: HP5975T
Lims ID: IC 3
Client ID:
Operator ID: RR ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

19 Ethyl ether, CAS: 60-29-7

Signal: 1

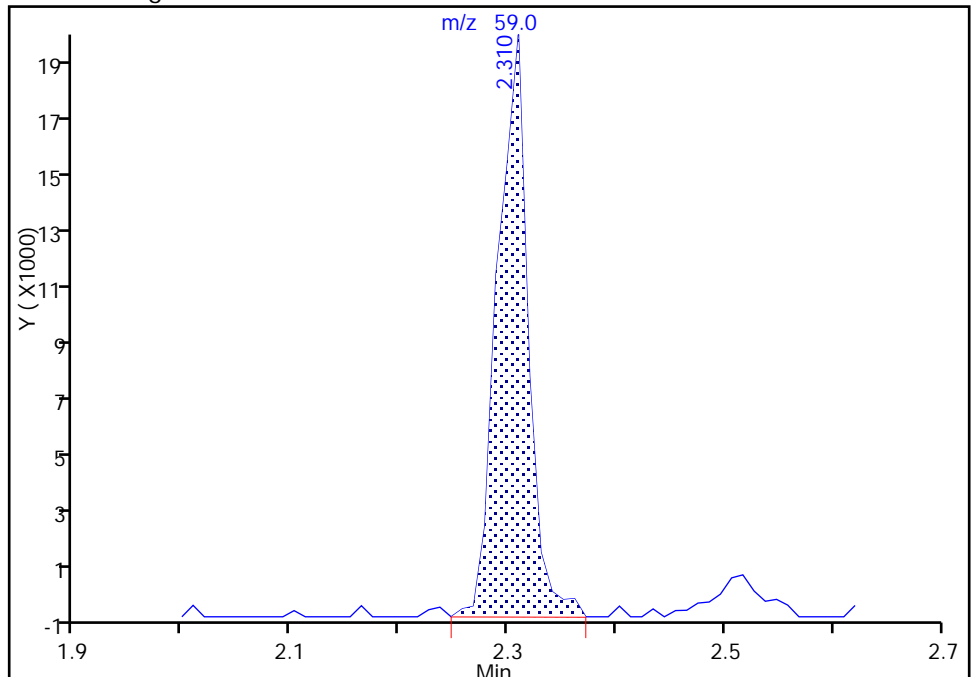
RT: 2.31
Area: 35885
Amount: 5.204123
Amount Units: ug/L

Processing Integration Results



RT: 2.31
Area: 37670
Amount: 5.427860
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:45:30
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

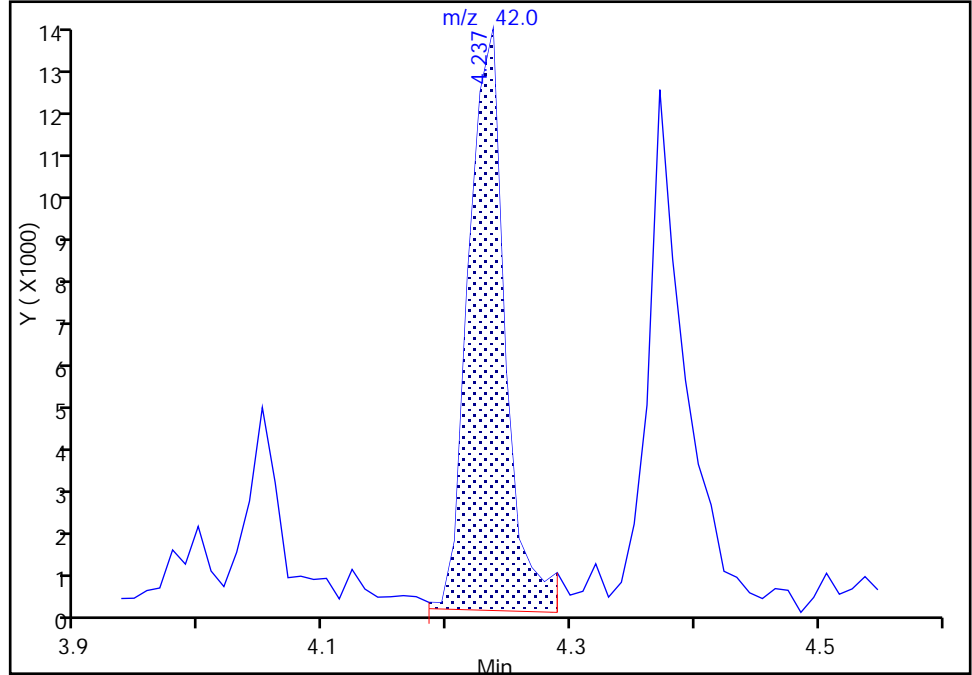
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Injection Date: 01-Dec-2017 16:20:30 Instrument ID: HP5975T
Lims ID: IC 3
Client ID:
Operator ID: RR ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

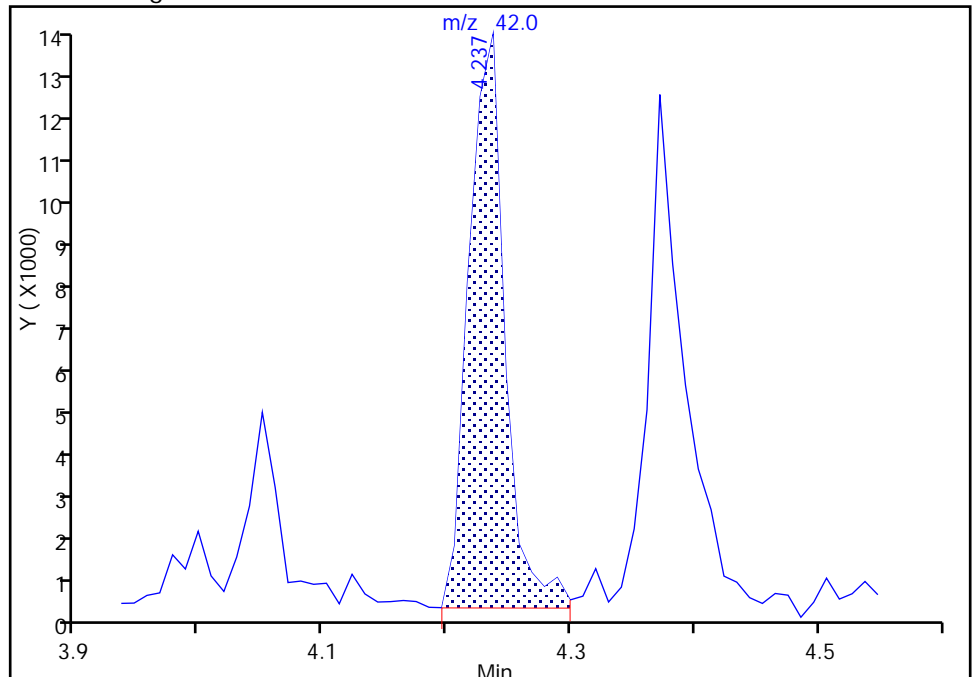
RT: 4.24
Area: 27536
Amount: 8.540882
Amount Units: ug/L

Processing Integration Results



RT: 4.24
Area: 26491
Amount: 10.050530
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:48:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2463.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-Dec-2017 16:44:30 ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 4
 Misc. Info.: 480-0067685-017
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:23 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 04-Dec-2017 08:56:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	140659	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	92	510696	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	292407	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	94	184411	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	251045	25.0	25.9	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	96	644809	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	87	223184	25.0	26.4	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	97	78140	10.0	8.61	
13 Chloromethane	50	1.408	1.398	0.010	99	116090	10.0	9.05	
151 Butadiene	54	1.491	1.481	0.010	97	101147	10.0	9.34	M
14 Vinyl chloride	62	1.491	1.481	0.010	97	86652	10.0	8.76	
15 Bromomethane	94	1.781	1.781	0.000	95	49179	10.0	8.51	M
16 Chloroethane	64	1.843	1.833	0.010	93	47479	10.0	9.26	M
17 Trichlorofluoromethane	101	2.051	2.051	0.000	80	126892	10.0	9.51	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	94	118429	10.0	8.74	M
19 Ethyl ether	59	2.299	2.299	0.000	95	66740	10.0	9.51	
21 Acrolein	56	2.486	2.476	0.010	98	51265	50.0	45.3	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	93	60376	10.0	9.93	M
20 1,1,2-Trichloro-1,2,2-trif	101	2.507	2.527	-0.020	55	59084	10.0	9.37	
23 Acetone	43	2.631	2.621	0.010	96	135388	50.0	50.4	
24 Iodomethane	142	2.672	2.662	0.010	98	122554	10.0	10.1	
25 Carbon disulfide	76	2.693	2.693	0.000	97	198140	10.0	9.82	
27 3-Chloro-1-propene	41	2.849	2.849	-0.001	86	159891	10.0	9.40	
28 Methyl acetate	43	2.890	2.890	0.000	100	127494	20.0	20.3	
30 Methylene Chloride	84	2.983	2.983	0.000	93	79137	10.0	10.3	
31 2-Methyl-2-propanol	59	3.139	3.149	-0.010	82	64034	100.0	97.2	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	97	216854	10.0	10.0	
32 trans-1,2-Dichloroethene	96	3.180	3.180	0.000	91	72796	10.0	10.7	
34 Acrylonitrile	53	3.242	3.242	0.000	95	306054	100.0	99.7	
35 Hexane	57	3.346	3.346	0.000	93	124595	10.0	8.93	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	144992	10.0	9.91	
39 Vinyl acetate	43	3.584	3.584	0.000	97	400004	20.0	20.0	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	90	113412	10.0	9.07	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	77990	10.0	9.85	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	96	192608	50.0	49.8	
47 Chlorobromomethane	128	4.216	4.217	-0.001	89	41810	10.0	10.3	
48 Tetrahydrofuran	42	4.227	4.227	0.000	93	52728	20.0	19.8	
50 Chloroform	83	4.279	4.279	0.000	95	142594	10.0	9.86	
52 Cyclohexane	56	4.372	4.372	0.000	92	160380	10.0	9.51	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	96	130235	10.0	9.97	
53 Carbon tetrachloride	117	4.476	4.486	-0.010	83	112795	10.0	9.93	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	86	96170	10.0	9.86	
55 Benzene	78	4.652	4.652	0.000	86	252603	10.0	9.72	
56 Isobutyl alcohol	43	4.672	4.673	-0.001	92	68856	250.0	227.6	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	95	141911	10.0	10.3	
59 n-Heptane	43	4.786	4.787	0.000	96	152348	10.0	9.24	
60 Trichloroethene	95	5.139	5.139	0.000	95	76165	10.0	9.70	
62 Methylcyclohexane	83	5.232	5.232	0.000	96	119306	10.0	9.80	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	85	80174	10.0	10.2	
66 1,4-Dioxane	88	5.439	5.439	0.000	70	7979	200.0	233.9	
65 Dibromomethane	93	5.439	5.439	0.000	95	46541	10.0	9.83	
67 Dichlorobromomethane	83	5.553	5.553	0.000	95	105576	10.0	9.84	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	91	53658	10.0	10.2	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	87	120780	10.0	10.5	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	99	432518	50.0	51.3	
73 Toluene	92	6.092	6.092	0.000	97	166274	10.0	10.1	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	89	112781	10.0	10.1	
77 Ethyl methacrylate	69	6.330	6.331	-0.001	94	84638	10.0	9.72	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	96	51835	10.0	10.6	
79 Tetrachloroethene	166	6.496	6.496	0.000	91	80902	10.0	10.1	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	96	104614	10.0	9.91	
81 2-Hexanone	43	6.621	6.621	0.000	99	294125	50.0	49.2	
82 Chlorodibromomethane	129	6.755	6.755	0.000	88	80325	10.0	10.1	
83 Ethylene Dibromide	107	6.838	6.838	0.000	96	68658	10.0	10.4	
86 Chlorobenzene	112	7.191	7.191	0.000	93	211920	10.0	10.3	
88 Ethylbenzene	91	7.253	7.253	0.000	99	344043	10.0	10.1	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	90	83324	10.0	9.88	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	130382	10.0	9.89	
91 o-Xylene	106	7.667	7.667	0.000	98	133715	10.0	10.2	
92 Styrene	104	7.688	7.688	0.000	96	221295	10.0	9.96	
93 Bromoform	173	7.885	7.885	0.000	95	49923	10.0	9.89	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	342068	10.0	9.88	
97 Bromobenzene	156	8.227	8.227	0.000	93	97415	10.0	10.6	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	96	76101	10.0	9.96	
99 N-Propylbenzene	91	8.279	8.279	0.000	98	399393	10.0	9.89	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.289	0.010	75	32675	10.0	9.07	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	91	28583	10.0	10.8	
105 2-Chlorotoluene	126	8.372	8.362	0.010	96	84332	10.0	10.2	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	96	303590	10.0	9.87	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	268525	10.0	10.2	
106 tert-Butylbenzene	134	8.673	8.673	0.000	94	68345	10.0	9.90	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	321301	10.0	9.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	96	358241	10.0	10.0	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	98	356094	10.0	10.2	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	96	185131	10.0	10.5	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	95	195004	10.0	10.9	
115 n-Butylbenzene	91	9.305	9.305	0.000	98	289289	10.0	9.92	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	95	176112	10.0	10.4	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.041	-0.001	80	16436	10.0	10.6	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	94	144367	10.0	10.4	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	97	64998	10.0	9.20	
121 Naphthalene	128	10.901	10.901	0.000	98	290942	10.0	10.2	
122 1,2,3-Trichlorobenzene	180	11.097	11.098	-0.001	96	135294	10.0	10.0	
S 126 Xylenes, Total	1				0			20.1	
S 123 1,3-Dichloropropene, Total	1				0			20.6	
S 124 1,2-Dichloroethene, Total	1				0			20.5	
S 125 Total BTEX	1				0			50.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00116

Amount Added: 5.00

Units: uL

GAS CORP mix_00253

Amount Added: 5.00

Units: uL

T_8260_IS_00180

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00164

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2463.D

Injection Date: 01-Dec-2017 16:44:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 4

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

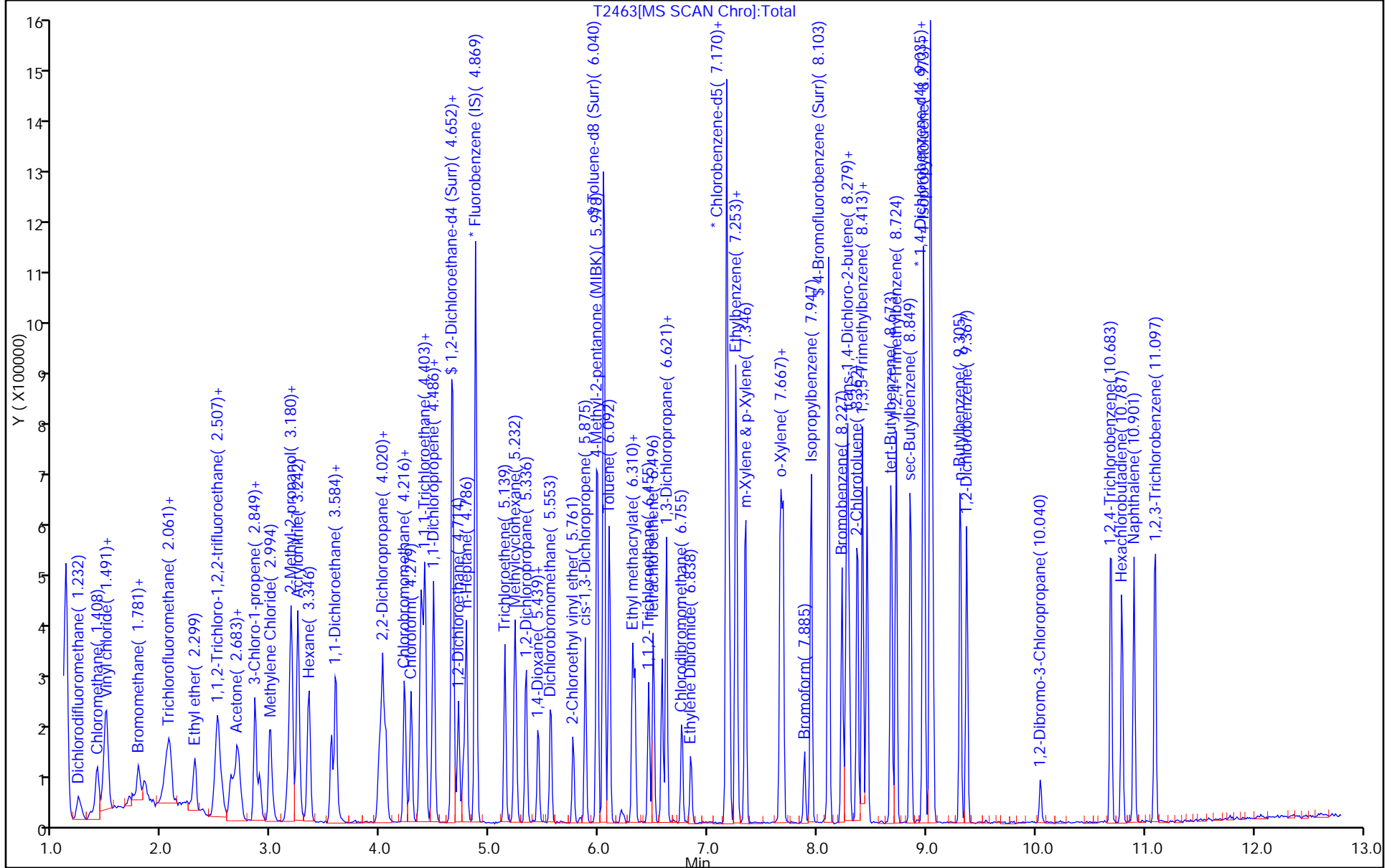
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

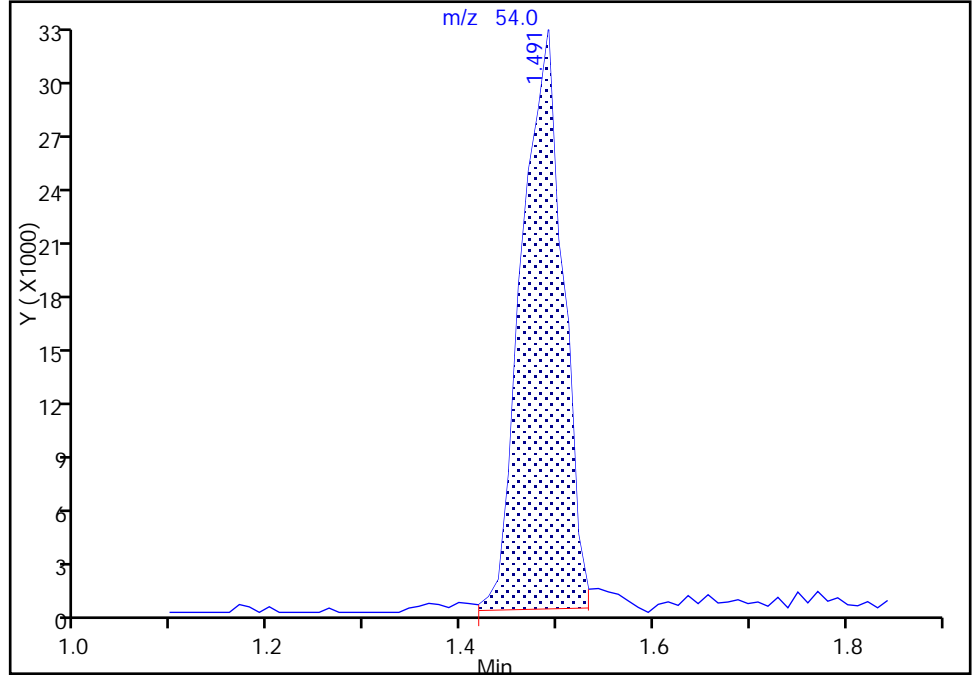
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Injection Date: 01-Dec-2017 16:44:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

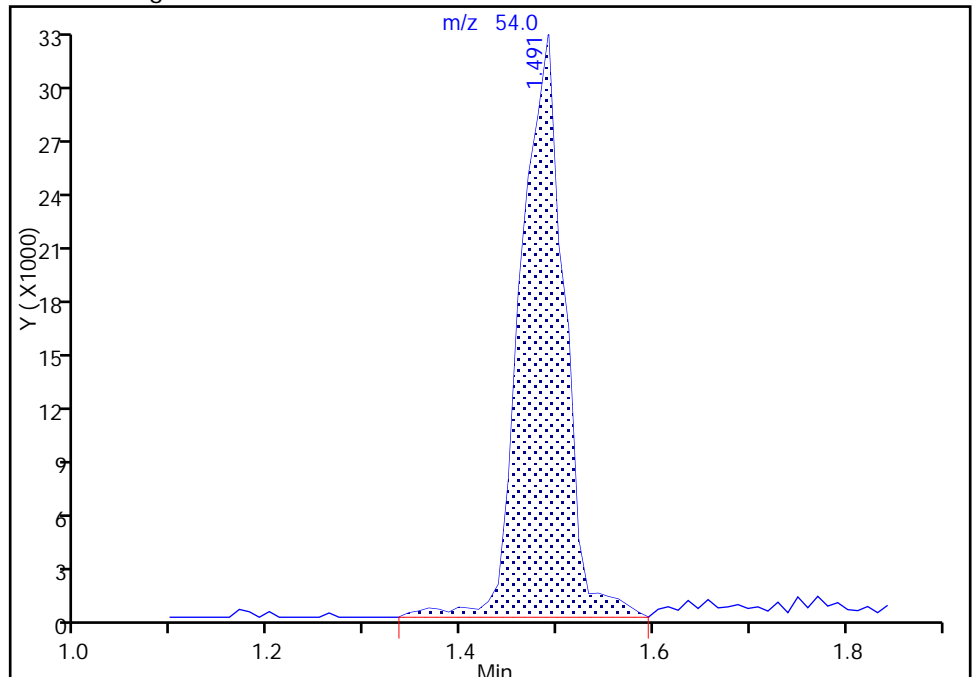
RT: 1.49
Area: 95414
Amount: 8.665692
Amount Units: ug/L

Processing Integration Results



RT: 1.49
Area: 101147
Amount: 9.338508
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:53:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

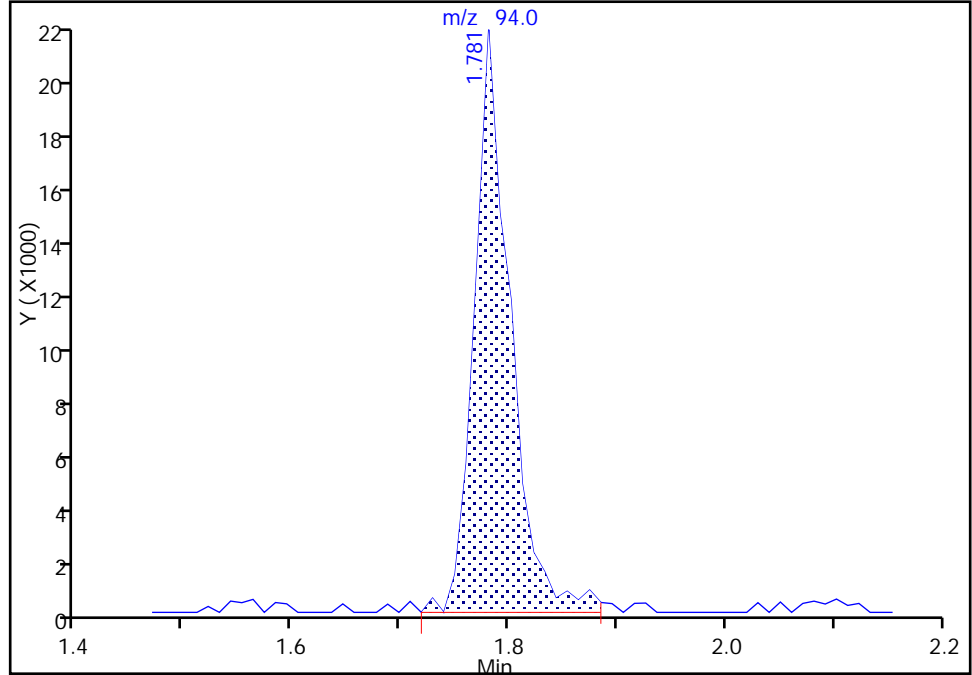
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Injection Date: 01-Dec-2017 16:44:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

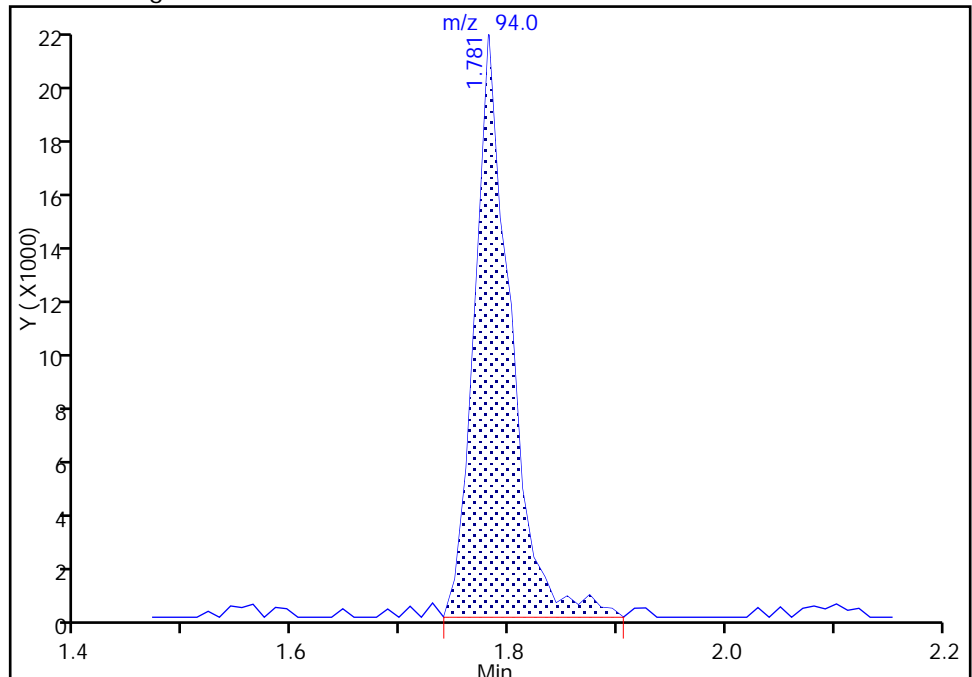
RT: 1.78
Area: 49299
Amount: 8.534054
Amount Units: ug/L

Processing Integration Results



RT: 1.78
Area: 49179
Amount: 8.507271
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:54:06
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

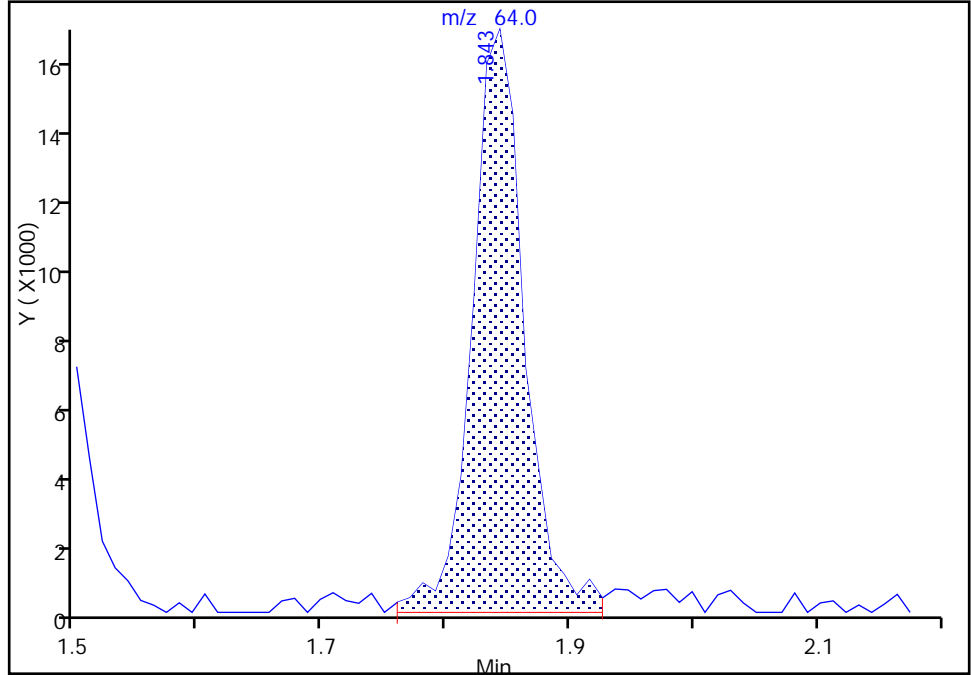
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Injection Date: 01-Dec-2017 16:44:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

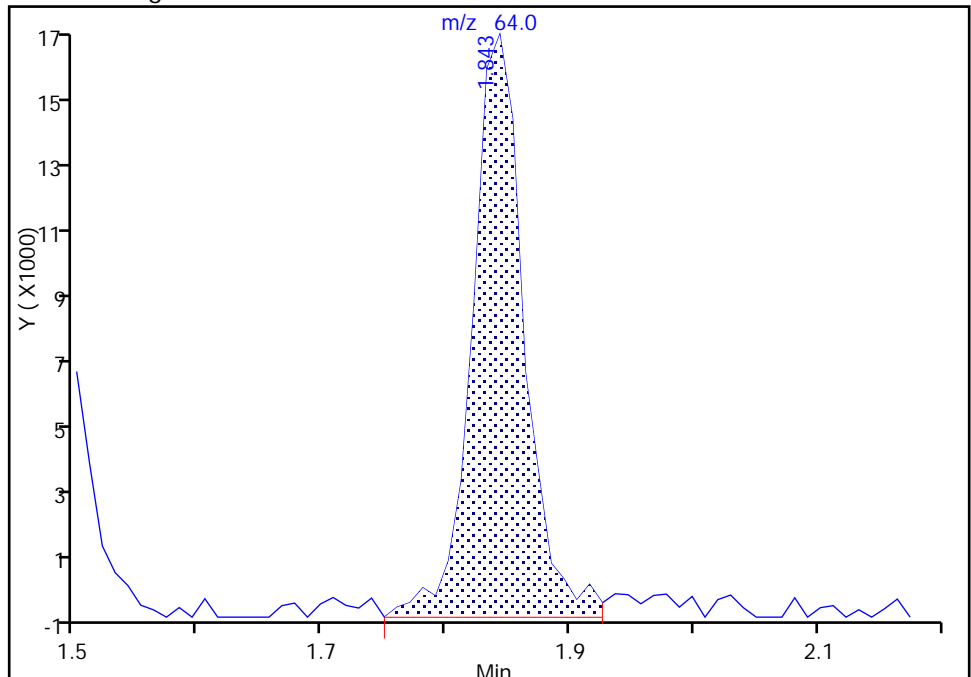
RT: 1.84
Area: 47444
Amount: 8.937651
Amount Units: ug/L

Processing Integration Results



RT: 1.84
Area: 47479
Amount: 9.256767
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:54:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

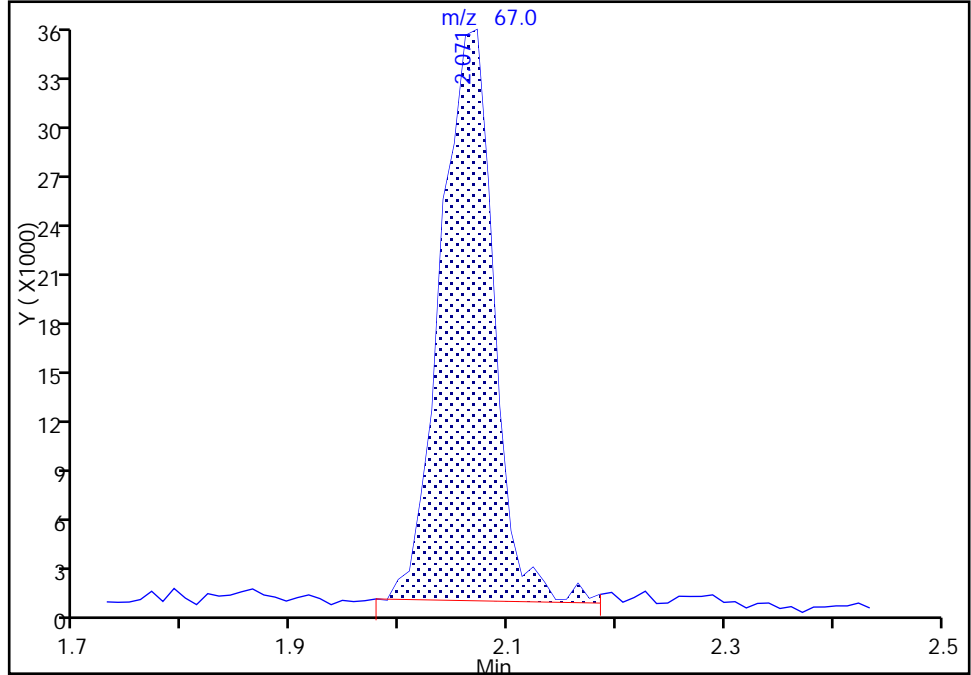
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Injection Date: 01-Dec-2017 16:44:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

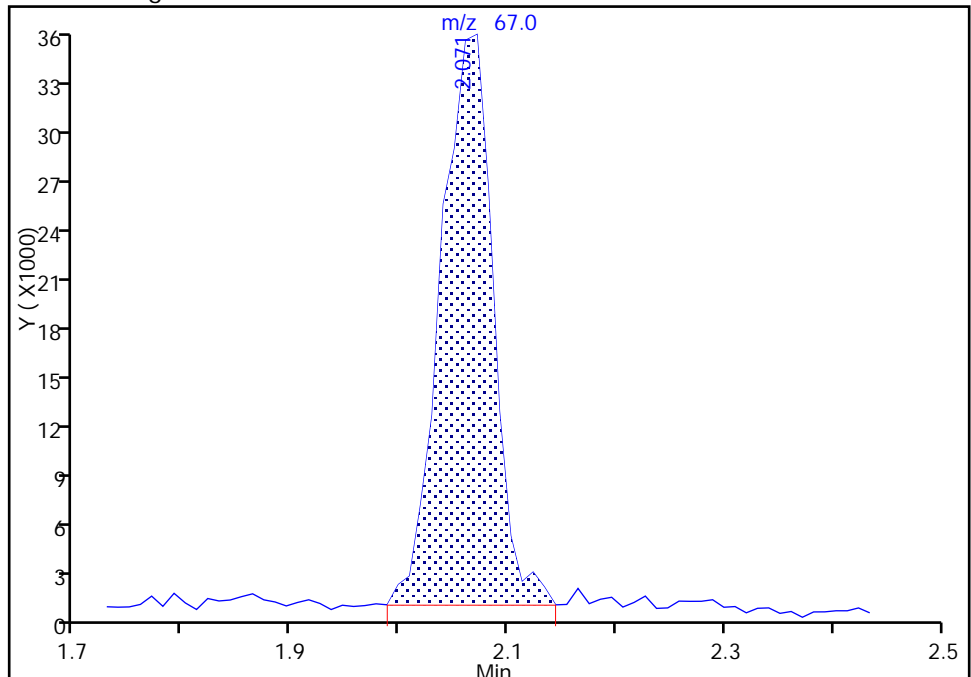
RT: 2.07
Area: 120005
Amount: 8.855184
Amount Units: ug/L

Processing Integration Results



RT: 2.07
Area: 118429
Amount: 8.741609
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:54:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

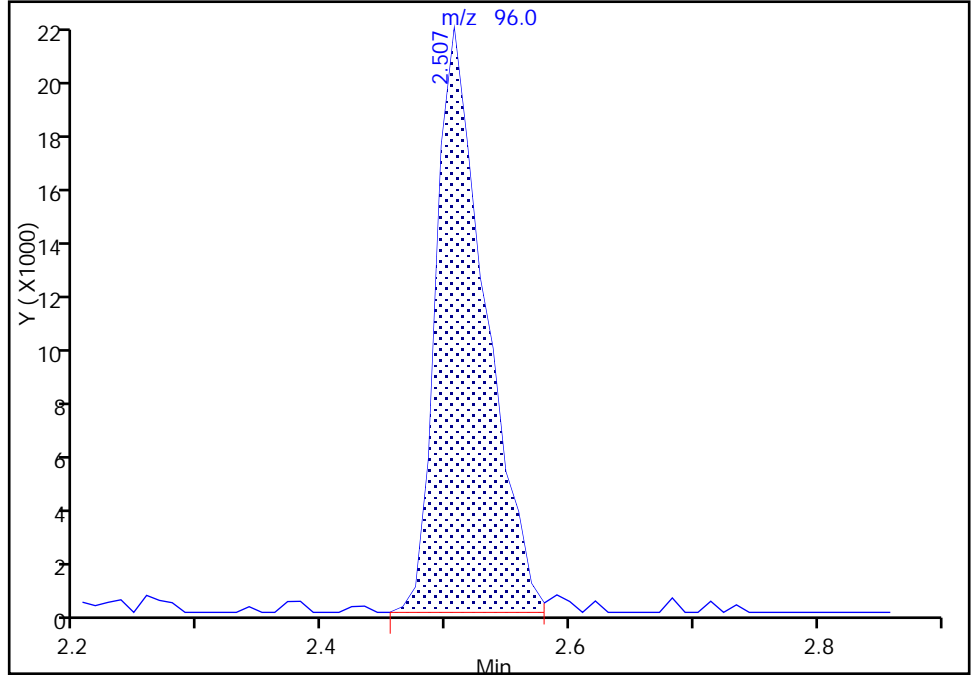
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Injection Date: 01-Dec-2017 16:44:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

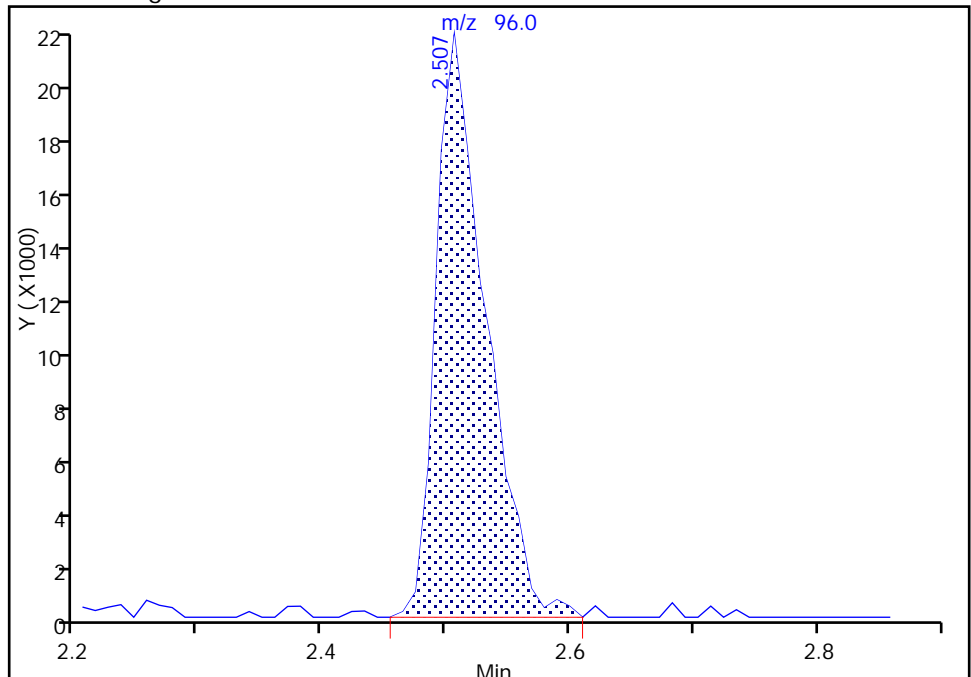
RT: 2.51
Area: 59724
Amount: 9.835914
Amount Units: ug/L

Processing Integration Results



RT: 2.51
Area: 60376
Amount: 9.929963
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:55:00
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

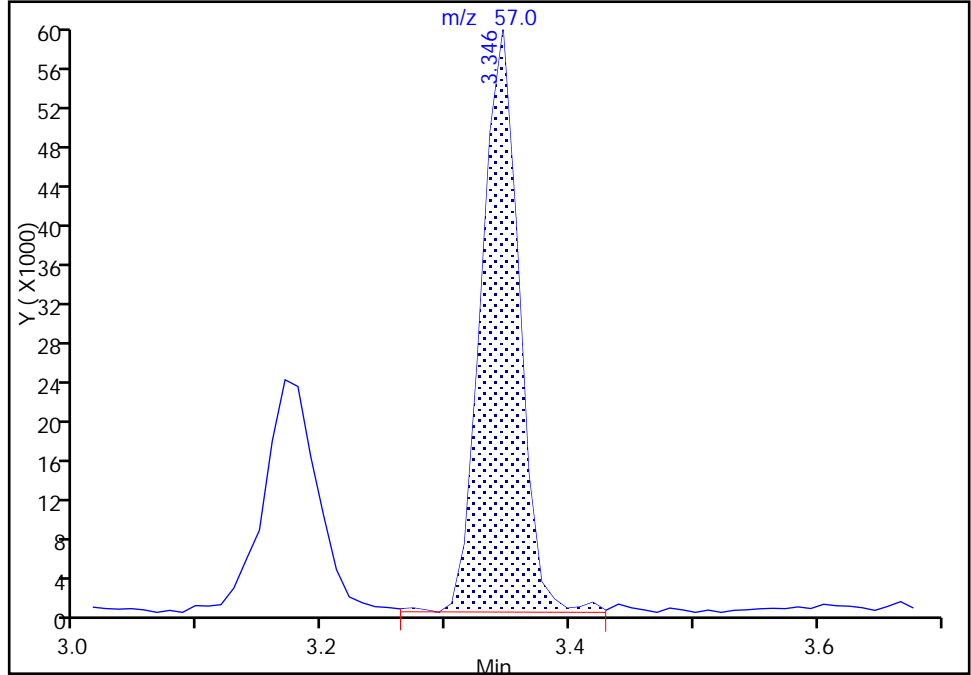
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Injection Date: 01-Dec-2017 16:44:30 Instrument ID: HP5975T
Lims ID: IC 4
Client ID:
Operator ID: RR ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

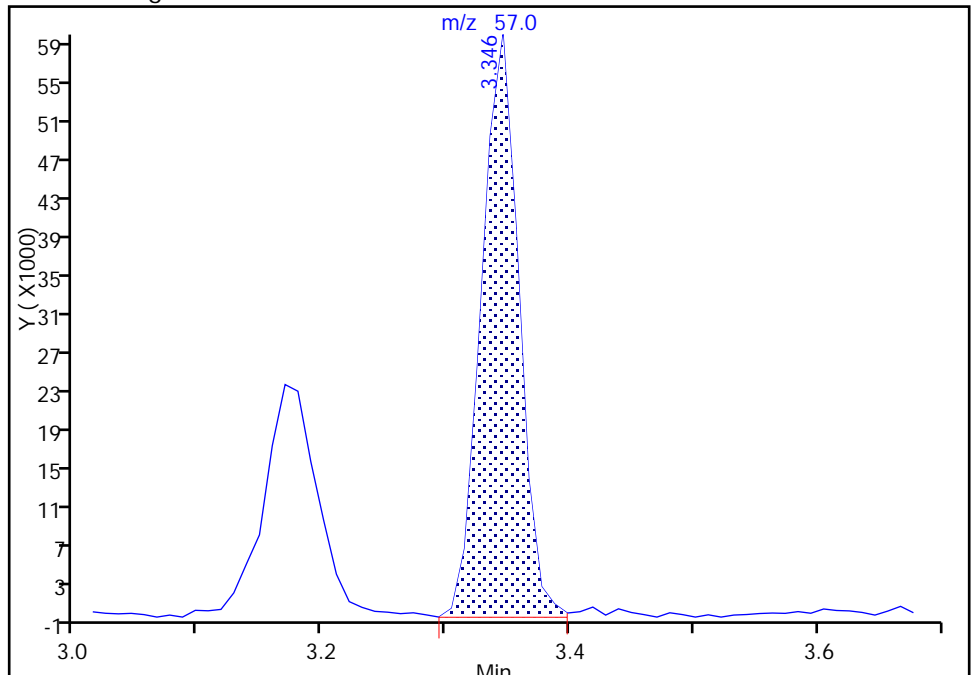
RT: 3.35
Area: 125880
Amount: 8.838522
Amount Units: ug/L

Processing Integration Results



RT: 3.35
Area: 124595
Amount: 8.929115
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 04-Dec-2017 08:55:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2464.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 01-Dec-2017 17:07:30 ALS Bottle#: 18 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis 5
 Misc. Info.: 480-0067685-018
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:27 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 04-Dec-2017 08:08:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	140731	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	522268	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	287616	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	94	183409	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	245222	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	624064	25.0	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	86	212402	25.0	24.6	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	98	209004	25.0	23.0	
13 Chloromethane	50	1.398	1.398	0.000	99	311902	25.0	24.3	
14 Vinyl chloride	62	1.481	1.481	0.000	96	230856	25.0	23.3	
151 Butadiene	54	1.481	1.481	0.000	95	242832	25.0	22.4	
15 Bromomethane	94	1.781	1.781	0.000	93	128872	25.0	22.3	
16 Chloroethane	64	1.833	1.833	0.000	96	123518	25.0	24.1	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	71	310628	25.0	23.3	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	95	315278	25.0	23.7	
19 Ethyl ether	59	2.299	2.299	0.000	97	159585	25.0	22.7	
21 Acrolein	56	2.476	2.476	0.000	97	117093	125.0	103.4	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	91	142840	25.0	23.5	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	66	149458	25.0	23.7	
23 Acetone	43	2.621	2.621	0.000	97	324946	125.0	120.8	
24 Iodomethane	142	2.662	2.662	0.000	96	303005	25.0	24.9	
25 Carbon disulfide	76	2.693	2.693	0.000	99	489837	25.0	24.3	
27 3-Chloro-1-propene	41	2.849	2.849	0.000	87	416431	25.0	24.5	
28 Methyl acetate	43	2.890	2.890	0.000	100	320280	50.0	50.9	
30 Methylene Chloride	84	2.983	2.983	0.000	93	182403	25.0	24.3	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	97	170486	250.0	258.6	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	97	542614	25.0	25.1	
32 trans-1,2-Dichloroethene	96	3.180	3.180	0.000	91	177196	25.0	26.0	
34 Acrylonitrile	53	3.242	3.242	0.000	97	761138	250.0	247.7	
35 Hexane	57	3.346	3.346	0.000	94	297974	25.0	21.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	356011	25.0	24.3	
39 Vinyl acetate	43	3.584	3.584	0.000	97	1012542	50.0	50.6	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	91	297352	25.0	23.8	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	208976	25.0	26.4	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	97	465941	125.0	120.4	
47 Chlorobromomethane	128	4.217	4.217	0.000	91	101654	25.0	25.0	
48 Tetrahydrofuran	42	4.227	4.227	0.000	92	123843	50.0	46.5	
50 Chloroform	83	4.279	4.279	0.000	97	349679	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	93	333768	25.0	25.6	
52 Cyclohexane	56	4.372	4.372	0.000	95	393177	25.0	23.3	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	86	230693	25.0	23.7	
53 Carbon tetrachloride	117	4.486	4.486	0.000	96	286240	25.0	25.2	
55 Benzene	78	4.652	4.652	0.000	93	645054	25.0	24.8	
56 Isobutyl alcohol	43	4.673	4.673	0.000	94	177356	625.0	585.9	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	97	338685	25.0	24.5	
59 n-Heptane	43	4.787	4.787	0.000	97	375762	25.0	22.8	
60 Trichloroethene	95	5.139	5.139	0.000	94	192455	25.0	24.5	
62 Methylcyclohexane	83	5.232	5.232	0.000	98	286715	25.0	23.5	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	86	199664	25.0	25.5	
65 Dibromomethane	93	5.439	5.439	0.000	92	114305	25.0	24.1	
66 1,4-Dioxane	88	5.439	5.439	0.000	35	15750	500.0	451.5	
67 Dichlorobromomethane	83	5.553	5.553	0.000	97	275865	25.0	25.7	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	90	128493	25.0	24.5	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	87	297307	25.0	25.9	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	99	1092994	125.0	126.6	
73 Toluene	92	6.092	6.092	0.000	97	419696	25.0	24.8	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	97	280981	25.0	24.7	
77 Ethyl methacrylate	69	6.331	6.331	0.000	93	216817	25.0	24.3	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	95	125732	25.0	25.3	
79 Tetrachloroethene	166	6.496	6.496	0.000	95	201894	25.0	24.5	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	95	269723	25.0	25.0	
81 2-Hexanone	43	6.621	6.621	0.000	99	747314	125.0	122.3	
82 Chlorodibromomethane	129	6.755	6.755	0.000	91	205415	25.0	25.3	
83 Ethylene Dibromide	107	6.838	6.838	0.000	96	172711	25.0	25.5	
86 Chlorobenzene	112	7.191	7.191	0.000	92	513114	25.0	24.4	
88 Ethylbenzene	91	7.253	7.253	0.000	99	864821	25.0	24.8	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	91	207665	25.0	24.1	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	335126	25.0	24.9	
91 o-Xylene	106	7.667	7.667	0.000	98	325203	25.0	24.4	
92 Styrene	104	7.688	7.688	0.000	94	582808	25.0	25.7	
93 Bromoform	173	7.885	7.885	0.000	96	127295	25.0	24.7	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	866576	25.0	25.5	
97 Bromobenzene	156	8.227	8.227	0.000	94	225416	25.0	24.9	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	96	190839	25.0	25.4	
99 N-Propylbenzene	91	8.279	8.279	0.000	98	995703	25.0	25.1	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	91	62307	25.0	23.9	
101 trans-1,4-Dichloro-2-buten	53	8.289	8.289	0.000	77	87877	25.0	24.8	
105 2-Chlorotoluene	126	8.362	8.362	0.000	95	211548	25.0	26.0	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	96	755769	25.0	25.0	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	649716	25.0	25.1	
106 tert-Butylbenzene	134	8.673	8.673	0.000	94	165841	25.0	24.4	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	802580	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	96	897896	25.0	25.6	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	891867	25.0	26.0	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	96	442104	25.0	25.4	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	92	456156	25.0	26.0	
115 n-Butylbenzene	91	9.305	9.305	0.000	98	698916	25.0	24.4	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	95	435683	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.041	0.000	80	40605	25.0	26.7	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	95	359762	25.0	26.3	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	96	173329	25.0	25.0	
121 Naphthalene	128	10.901	10.901	0.000	98	733008	25.0	26.1	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	95	327490	25.0	24.6	

Reagents:

8260 CORP mix_00116	Amount Added: 12.50	Units: uL	
GAS CORP mix_00253	Amount Added: 12.50	Units: uL	
T_8260_IS_00180	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2464.D

Injection Date: 01-Dec-2017 17:07:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: ICIS 5

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

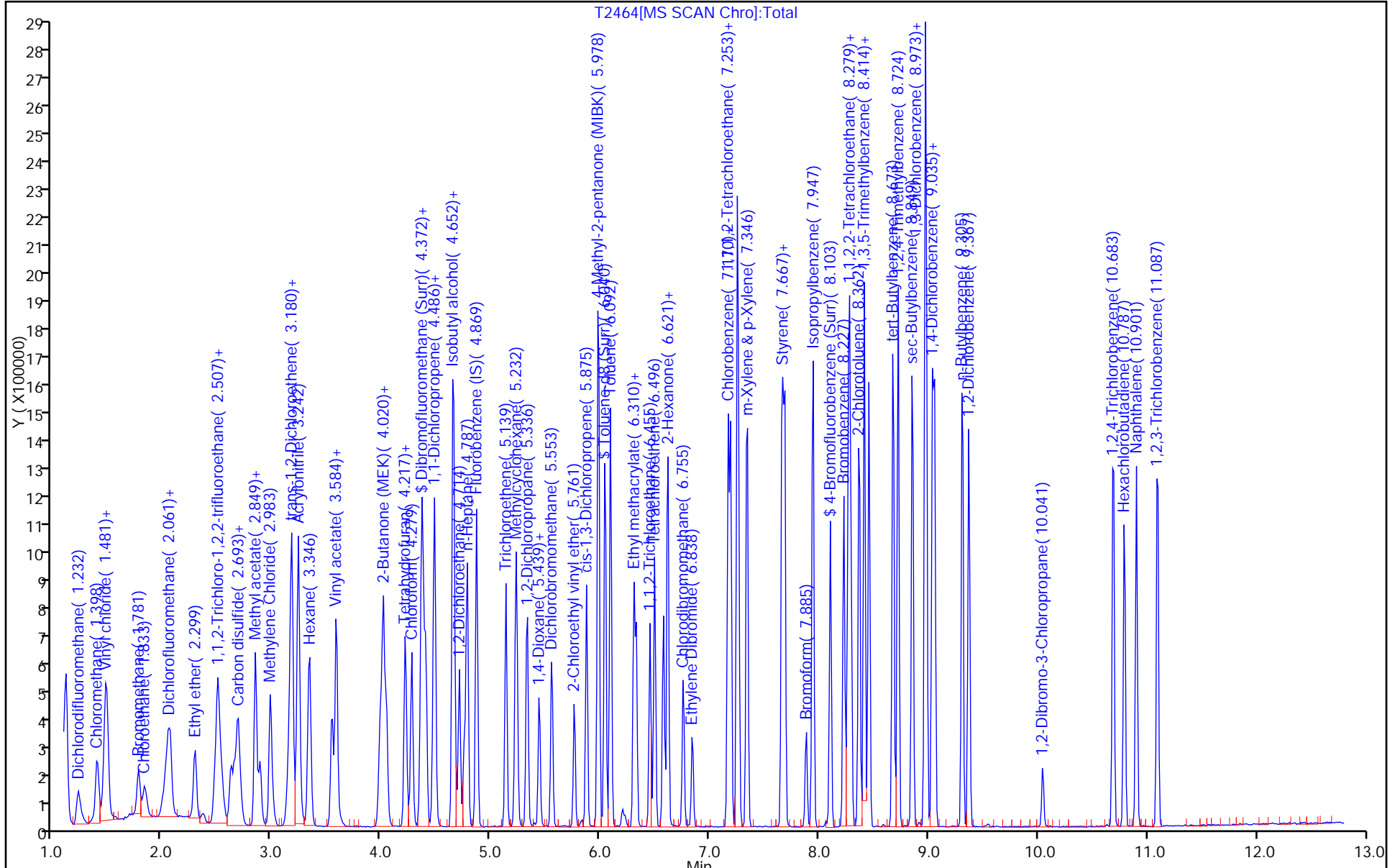
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2465.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Dec-2017 17:31:30 ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 6
 Misc. Info.: 480-0067685-019
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:31 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler

Date: 04-Dec-2017 09:01:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	135057	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	509192	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	289011	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.403	0.010	94	181663	25.0	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.652	0.010	0	247711	25.0	26.6	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.040	0.011	96	630165	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	86	207443	25.0	24.6	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	98	486351	50.0	55.8	
13 Chloromethane	50	1.418	1.398	0.020	99	645531	50.0	52.4	
151 Butadiene	54	1.512	1.481	0.031	97	547564	50.0	52.7	
14 Vinyl chloride	62	1.491	1.481	0.010	97	509382	50.0	53.6	
15 Bromomethane	94	1.791	1.781	0.010	93	272047	50.0	49.0	
16 Chloroethane	64	1.854	1.833	0.021	96	266630	50.0	54.1	
17 Trichlorofluoromethane	101	2.071	2.051	0.020	98	709873	50.0	55.4	
18 Dichlorofluoromethane	67	2.082	2.071	0.011	97	656695	50.0	51.9	
19 Ethyl ether	59	2.310	2.299	0.011	96	325467	50.0	48.3	
21 Acrolein	56	2.486	2.476	0.010	99	247026	250.0	227.2	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	91	306258	50.0	52.5	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.527	0.000	87	363155	50.0	60.0	
23 Acetone	43	2.631	2.621	0.010	98	629282	250.0	243.9	
24 Iodomethane	142	2.672	2.662	0.010	97	616920	50.0	52.8	
25 Carbon disulfide	76	2.703	2.693	0.010	98	1070372	50.0	55.2	
27 3-Chloro-1-propene	41	2.859	2.849	0.010	86	826451	50.0	50.6	
28 Methyl acetate	43	2.900	2.890	0.010	99	616726	100.0	102.2	
30 Methylene Chloride	84	2.994	2.983	0.011	93	355696	50.0	50.0	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	97	334842	500.0	529.3	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	96	1087941	50.0	52.5	
32 trans-1,2-Dichloroethene	96	3.190	3.180	0.010	91	349721	50.0	53.4	
34 Acrylonitrile	53	3.253	3.242	0.011	97	1497719	500.0	508.0	
35 Hexane	57	3.346	3.346	0.000	95	685242	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	746654	50.0	53.1	
39 Vinyl acetate	43	3.595	3.584	0.011	97	1984933	100.0	103.4	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	90	619934	50.0	51.6	
43 cis-1,2-Dichloroethene	96	4.030	4.020	0.010	88	398050	50.0	52.3	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	97	931707	250.0	250.9	
47 Chlorobromomethane	128	4.227	4.217	0.010	92	213270	50.0	54.7	
48 Tetrahydrofuran	42	4.227	4.227	0.000	94	243521	100.0	95.2	
50 Chloroform	83	4.279	4.279	0.000	97	697710	50.0	50.3	
52 Cyclohexane	56	4.382	4.372	0.010	97	894006	50.0	55.2	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	98	685741	50.0	54.7	
53 Carbon tetrachloride	117	4.486	4.486	0.000	95	633661	50.0	58.1	
54 1,1-Dichloropropene	75	4.496	4.486	0.010	88	517203	50.0	55.3	
55 Benzene	78	4.662	4.652	0.010	94	1304679	50.0	52.3	
56 Isobutyl alcohol	43	4.672	4.673	-0.001	92	365775	1250.0	1259.2	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	96	662585	50.0	49.9	
59 n-Heptane	43	4.786	4.787	0.000	96	854929	50.0	54.0	
60 Trichloroethene	95	5.139	5.139	0.000	93	401855	50.0	53.3	
62 Methylcyclohexane	83	5.232	5.232	0.000	98	672963	50.0	57.6	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	86	399778	50.0	53.2	
66 1,4-Dioxane	88	5.439	5.439	0.000	35	35650	1000.0	1048.2	
65 Dibromomethane	93	5.450	5.439	0.011	93	224495	50.0	49.4	
67 Dichlorobromomethane	83	5.564	5.553	0.011	97	547302	50.0	53.1	
69 2-Chloroethyl vinyl ether	63	5.771	5.761	0.010	91	255561	50.0	50.7	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	87	591090	50.0	53.6	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.978	0.010	99	2092799	250.0	248.7	
73 Toluene	92	6.092	6.092	0.000	97	855862	50.0	51.9	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	90	573419	50.0	51.7	
77 Ethyl methacrylate	69	6.330	6.331	-0.001	91	419470	50.0	48.3	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	96	241800	50.0	49.8	
79 Tetrachloroethene	166	6.496	6.496	0.000	94	430626	50.0	53.7	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	97	520019	50.0	49.4	
81 2-Hexanone	43	6.621	6.621	0.000	98	1472505	250.0	247.3	
82 Chlorodibromomethane	129	6.766	6.755	0.011	90	419192	50.0	52.9	
83 Ethylene Dibromide	107	6.849	6.838	0.011	98	328535	50.0	49.7	
86 Chlorobenzene	112	7.191	7.191	0.000	92	1040121	50.0	50.8	
88 Ethylbenzene	91	7.253	7.253	0.000	98	1725480	50.0	50.7	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	91	425126	50.0	50.6	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	668044	50.0	50.8	
91 o-Xylene	106	7.667	7.667	0.000	98	637203	50.0	49.0	
92 Styrene	104	7.688	7.688	0.000	93	1122760	50.0	50.7	
93 Bromoform	173	7.885	7.885	0.000	96	260162	50.0	51.7	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	1769240	50.0	51.7	
97 Bromobenzene	156	8.227	8.227	0.000	91	445751	50.0	49.0	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	97	368424	50.0	48.8	
99 N-Propylbenzene	91	8.279	8.279	0.000	99	2024753	50.0	50.7	
101 trans-1,4-Dichloro-2-buten	53	8.289	8.289	0.000	77	175682	50.0	49.3	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	92	131449	50.0	50.1	
105 2-Chlorotoluene	126	8.372	8.362	0.010	95	428022	50.0	52.3	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	96	1583419	50.0	52.1	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	1299921	50.0	50.0	
106 tert-Butylbenzene	134	8.683	8.673	0.010	94	354529	50.0	52.0	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	1598414	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	96	1890979	50.0	53.6	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	98	1857061	50.0	53.9	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	96	867476	50.0	49.7	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	92	886205	50.0	50.3	
115 n-Butylbenzene	91	9.305	9.305	0.000	98	1503618	50.0	52.1	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	96	843052	50.0	50.2	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.041	-0.001	76	79362	50.0	52.0	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	95	709918	50.0	51.7	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	97	365095	50.0	52.3	
121 Naphthalene	128	10.901	10.901	0.000	98	1447842	50.0	51.2	
122 1,2,3-Trichlorobenzene	180	11.097	11.098	-0.001	95	638873	50.0	47.8	
S 126 Xylenes, Total	1				0			99.8	
S 123 1,3-Dichloropropene, Total	1				0			105.3	
S 124 1,2-Dichloroethene, Total	1				0			105.7	
S 125 Total BTEX	1				0			254.7	

Reagents:

8260 CORP mix_00116	Amount Added: 25.00	Units: uL	
GAS CORP mix_00253	Amount Added: 25.00	Units: uL	
T_8260_IS_00180	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2465.D

Injection Date: 01-Dec-2017 17:31:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 6

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

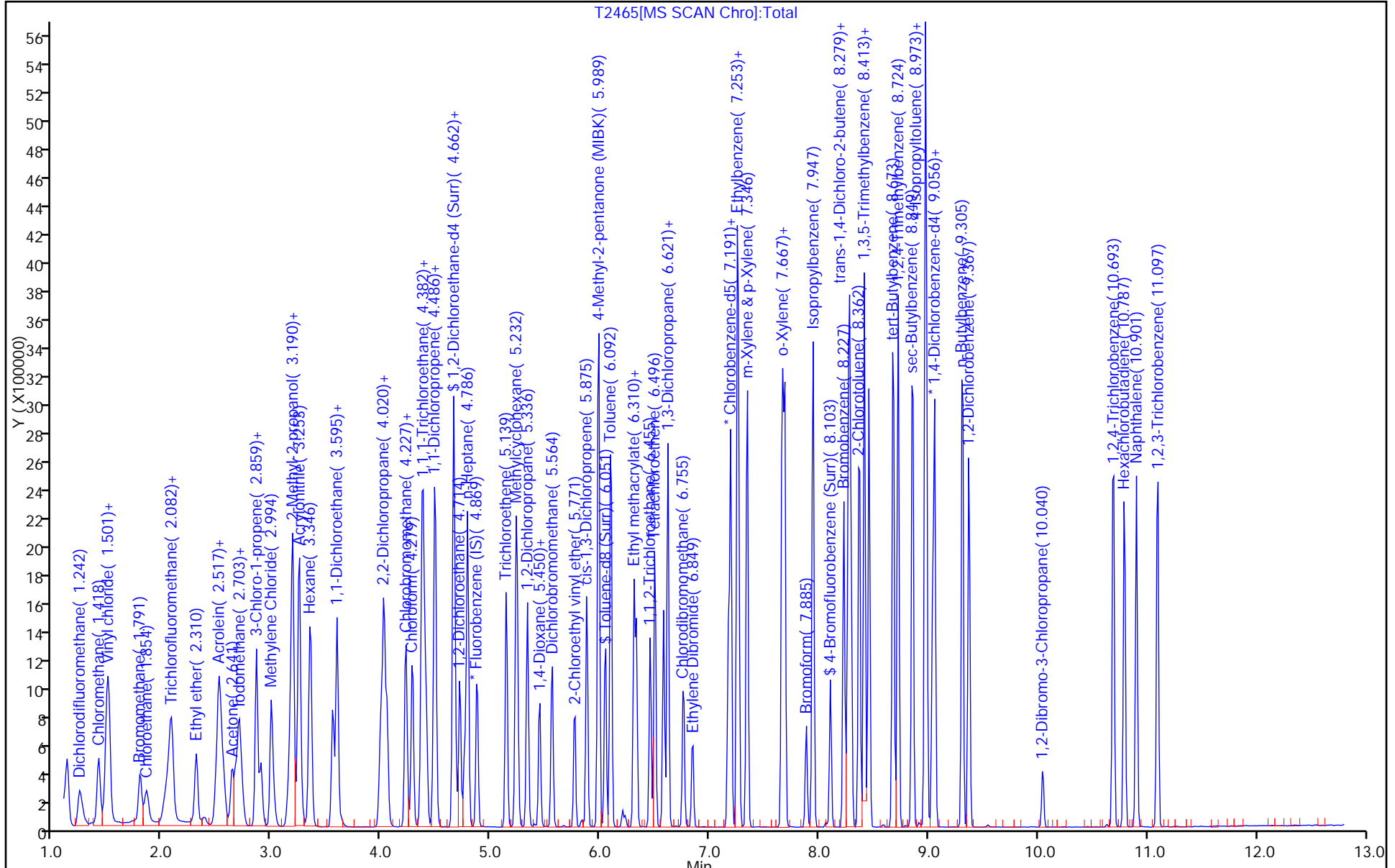
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2466.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 01-Dec-2017 17:54:30 ALS Bottle#: 20 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: not used ic 7
 Misc. Info.: 480-0067685-020
 Operator ID: RR Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:34 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler Date: 04-Dec-2017 09:02:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	97	134539	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	90	489688	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	97	277509	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.403	0.010	92	175377	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.652	0.010	0	234289	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	6.051	6.040	0.011	95	615653	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	88	210703	25.0	26.0	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	99	923742	100.0	106.4	
13 Chloromethane	50	1.408	1.398	0.010	99	1250035	100.0	101.9	
14 Vinyl chloride	62	1.491	1.481	0.010	97	963741	100.0	101.8	
151 Butadiene	54	1.501	1.481	0.020	97	1030606	100.0	99.5	
15 Bromomethane	94	1.792	1.781	0.011	94	537628	100.0	97.2	
16 Chloroethane	64	1.854	1.833	0.021	95	491689	100.0	100.2	
17 Trichlorofluoromethane	101	2.071	2.051	0.020	75	1346756	100.0	105.5	
18 Dichlorofluoromethane	67	2.071	2.071	0.000	94	1261198	100.0	100.3	
19 Ethyl ether	59	2.299	2.299	0.000	96	677142	100.0	100.9	
21 Acrolein	56	2.486	2.476	0.010	99	474294	500.0	437.9	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	92	606856	100.0	104.3	
20 1,1,2-Trichloro-1,2,2-trif	101	2.517	2.527	-0.010	93	689998	100.0	114.4	
23 Acetone	43	2.631	2.621	0.010	98	1292627	500.0	502.8	
24 Iodomethane	142	2.672	2.662	0.010	97	1234644	100.0	106.1	
25 Carbon disulfide	76	2.704	2.693	0.011	98	2053993	100.0	106.4	
27 3-Chloro-1-propene	41	2.849	2.849	0.000	86	1652372	100.0	101.5	
28 Methyl acetate	43	2.900	2.890	0.010	100	1240790	200.0	206.4	
30 Methylene Chloride	84	2.994	2.983	0.011	92	708547	100.0	100.5	
31 2-Methyl-2-propanol	59	3.149	3.149	0.000	98	680154	1000.0	1079.4	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	97	2116426	100.0	102.4	
32 trans-1,2-Dichloroethene	96	3.191	3.180	0.011	92	692022	100.0	106.0	
34 Acrylonitrile	53	3.242	3.242	0.000	97	2983632	1000.0	1015.8	
35 Hexane	57	3.346	3.346	0.000	94	1356321	100.0	101.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.553	3.553	0.000	97	1422840	100.0	101.7	
39 Vinyl acetate	43	3.595	3.584	0.011	97	3927863	200.0	205.4	
42 2,2-Dichloropropane	77	3.999	3.999	0.000	91	1201235	100.0	100.4	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	87	796490	100.0	105.2	
44 2-Butanone (MEK)	43	4.051	4.051	0.000	97	1840644	500.0	497.6	
47 Chlorobromomethane	128	4.217	4.217	0.000	91	406830	100.0	104.7	
48 Tetrahydrofuran	42	4.227	4.227	0.000	92	477145	200.0	187.2	
50 Chloroform	83	4.279	4.279	0.000	97	1395027	100.0	100.9	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	97	1379999	100.0	110.5	
52 Cyclohexane	56	4.372	4.372	0.000	97	1715009	100.0	106.3	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	89	1004874	100.0	107.8	
53 Carbon tetrachloride	117	4.486	4.486	0.000	97	1252289	100.0	115.3	
55 Benzene	78	4.662	4.652	0.010	95	2577133	100.0	103.6	
56 Isobutyl alcohol	43	4.673	4.673	0.000	93	762504	2500.0	2635.0	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	96	1354890	100.0	102.5	
59 n-Heptane	43	4.787	4.787	0.000	97	1622507	100.0	102.9	
60 Trichloroethene	95	5.139	5.139	0.000	94	778723	100.0	103.7	
62 Methylcyclohexane	83	5.232	5.232	0.000	97	1274409	100.0	109.4	
63 1,2-Dichloropropane	63	5.336	5.336	0.000	86	779007	100.0	104.1	
65 Dibromomethane	93	5.439	5.439	0.000	92	459134	100.0	101.3	
66 1,4-Dioxane	88	5.439	5.439	0.000	34	68336	2000.0	2089.3	
67 Dichlorobromomethane	83	5.564	5.553	0.011	97	1104822	100.0	107.7	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	90	507437	100.0	101.2	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	87	1176990	100.0	107.2	
72 4-Methyl-2-pentanone (MIBK)	43	5.989	5.978	0.011	99	4158135	500.0	513.9	
73 Toluene	92	6.092	6.092	0.000	97	1674748	100.0	105.6	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	97	1117055	100.0	104.6	
77 Ethyl methacrylate	69	6.331	6.331	0.000	94	862498	100.0	103.3	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	94	483813	100.0	103.7	
79 Tetrachloroethene	166	6.496	6.496	0.000	93	842735	100.0	109.2	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	94	1031311	100.0	101.9	
81 2-Hexanone	43	6.621	6.621	0.000	98	2895943	500.0	505.6	
82 Chlorodibromomethane	129	6.755	6.755	0.000	90	853861	100.0	112.0	
83 Ethylene Dibromide	107	6.838	6.838	0.000	97	670357	100.0	105.5	
86 Chlorobenzene	112	7.191	7.191	0.000	92	2064779	100.0	104.9	
88 Ethylbenzene	91	7.253	7.253	0.000	98	3359778	100.0	102.6	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	92	856344	100.0	105.9	
90 m-Xylene & p-Xylene	106	7.346	7.346	0.000	0	1316940	100.0	104.2	
91 o-Xylene	106	7.667	7.667	0.000	98	1284344	100.0	102.7	
92 Styrene	104	7.688	7.688	0.000	94	2187976	100.0	102.7	
93 Bromoform	173	7.885	7.885	0.000	96	543512	100.0	112.3	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	3470133	100.0	105.7	
97 Bromobenzene	156	8.227	8.227	0.000	92	876852	100.0	100.5	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	97	715857	100.0	98.7	
99 N-Propylbenzene	91	8.279	8.279	0.000	98	3966619	100.0	103.5	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	90	258024	100.0	102.4	
101 trans-1,4-Dichloro-2-buten	53	8.300	8.289	0.011	78	337715	100.0	98.7	
105 2-Chlorotoluene	126	8.372	8.362	0.010	96	834953	100.0	106.3	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	96	3013916	100.0	103.2	
102 4-Chlorotoluene	91	8.455	8.455	0.000	99	2592492	100.0	103.9	
106 tert-Butylbenzene	134	8.673	8.673	0.000	94	696295	100.0	106.3	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	98	3072369	100.0	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	96	3731655	100.0	110.1	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	3579306	100.0	108.3	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	96	1720298	100.0	102.6	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	92	1753729	100.0	103.6	
115 n-Butylbenzene	91	9.305	9.305	0.000	98	2905554	100.0	104.9	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	96	1657077	100.0	102.8	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.041	0.000	81	165215	100.0	112.7	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	95	1404288	100.0	106.6	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	97	742728	100.0	110.8	
121 Naphthalene	128	10.901	10.901	0.000	98	2899611	100.0	106.9	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	95	1300942	100.0	101.3	
S 124 1,2-Dichloroethene, Total	1				0			211.2	
S 125 Total BTEX	1				0			518.7	
S 126 Xylenes, Total	1				0			206.9	
S 123 1,3-Dichloropropene, Total	1				0			211.8	

Reagents:

8260 CORP mix_00116	Amount Added: 50.00	Units: uL	
GAS CORP mix_00253	Amount Added: 50.00	Units: uL	
T_8260_IS_00180	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2466.D

Injection Date: 01-Dec-2017 17:54:30

Instrument ID: HP5975T

Operator ID: RR

Lims ID: IC 7

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

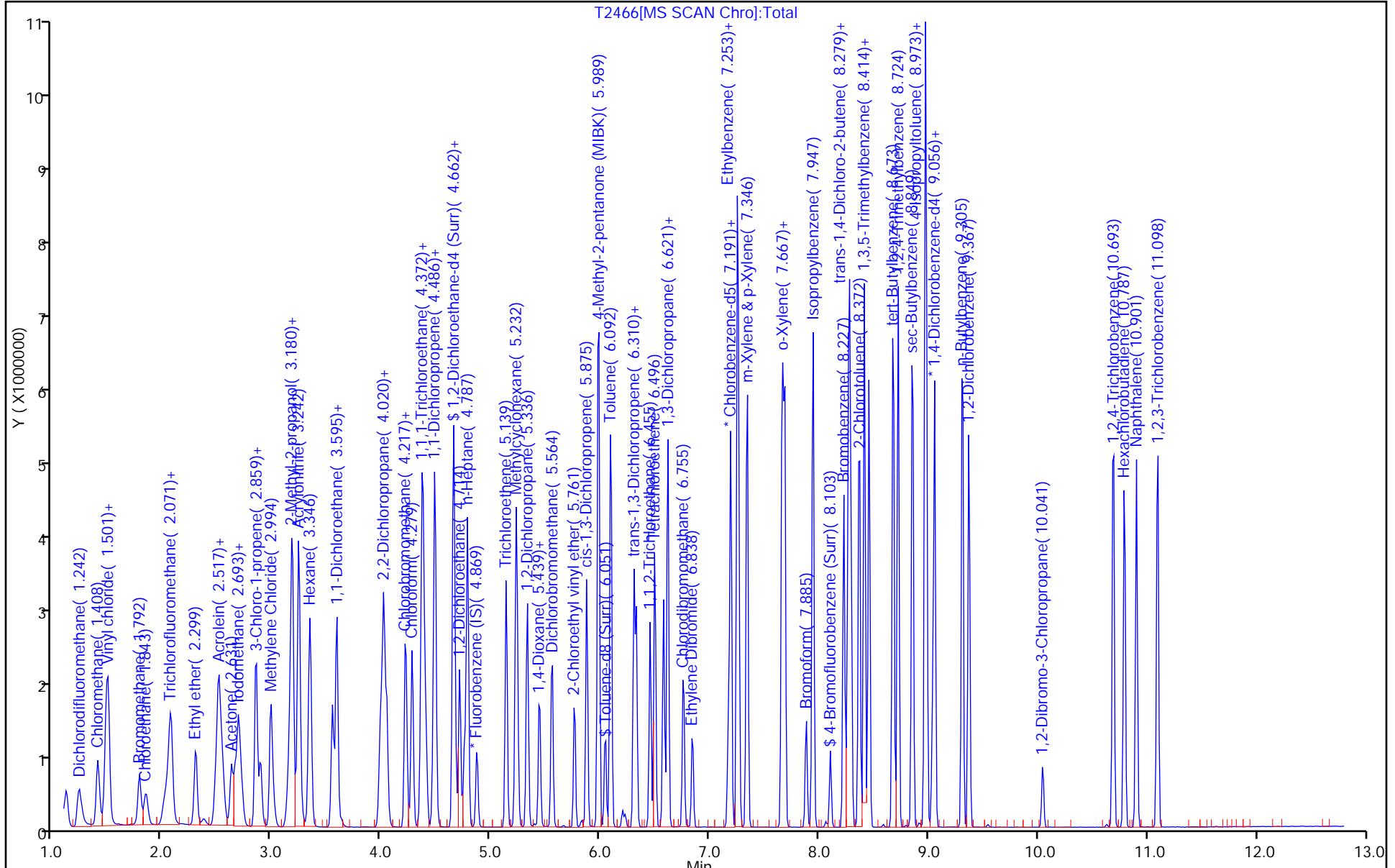
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394763/2 Calibration Date: 01/07/2018 17:24
 Instrument ID: HP5973N Calib Start Date: 12/28/2017 15:45
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/28/2017 18:55
 Lab File ID: N6096.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.206	1.183	0.1000	24.5	25.0	-1.9	50.0
Chloromethane	Ave	2.793	2.522	0.1000	22.6	25.0	-9.7	20.0
Vinyl chloride	Ave	1.847	1.801	0.1000	24.4	25.0	-2.5	20.0
Butadiene	Ave	2.141	1.894		22.1	25.0	-11.5	20.0
Bromomethane	Ave	0.9564	0.9396	0.1000	24.6	25.0	-1.8	50.0
Chloroethane	Ave	1.086	1.054	0.1000	24.3	25.0	-2.9	50.0
Dichlorofluoromethane	Ave	2.480	2.165		21.8	25.0	-12.7	20.0
Trichlorofluoromethane	Ave	1.887	1.869	0.1000	24.8	25.0	-1.0	20.0
Ethyl ether	Ave	1.654	1.695		25.6	25.0	2.5	20.0
Acrolein	Ave	0.4280	0.4685		137	125	9.5	50.0
1,1-Dichloroethene	Ave	0.9852	0.8968	0.1000	22.8	25.0	-9.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9299	1.029	0.1000	27.7	25.0	10.7	20.0
Acetone	Ave	0.5629	0.9587	0.1000	213	125	70.3*	50.0
Iodomethane	Ave	1.980	2.112		26.7	25.0	6.7	20.0
Carbon disulfide	Ave	3.382	3.508	0.1000	25.9	25.0	3.7	20.0
Allyl chloride	Ave	3.472	3.462		24.9	25.0	-0.3	20.0
Methyl acetate	Ave	2.065	2.302	0.1000	55.7	50.0	11.4	50.0
Methylene Chloride	Lin1		1.245	0.1000	24.5	25.0	-2.0	20.0
2-Methyl-2-propanol	Ave	0.1250	0.2320		464	250	85.7*	50.0
Methyl tert-butyl ether	Ave	4.057	4.312	0.1000	26.6	25.0	6.3	20.0
trans-1,2-Dichloroethene	Ave	1.169	1.227	0.1000	26.3	25.0	5.0	20.0
Acrylonitrile	Ave	0.9759	1.100		282	250	12.7	20.0
Hexane	Ave	2.463	2.739		27.8	25.0	11.2	20.0
1,1-Dichloroethane	Ave	2.652	2.698	0.2000	25.4	25.0	1.7	20.0
Vinyl acetate	Ave	5.252	5.878		56.0	50.0	11.9	20.0
2,2-Dichloropropane	Ave	1.655	1.758		26.6	25.0	6.2	20.0
cis-1,2-Dichloroethene	Ave	1.358	1.396	0.1000	25.7	25.0	2.8	20.0
2-Butanone (MEK)	Ave	1.206	1.481	0.1000	153	125	22.8*	20.0
Chlorobromomethane	Ave	0.7071	0.7514		26.6	25.0	6.3	20.0
Tetrahydrofuran	Ave	0.8464	0.9580		56.6	50.0	13.2	20.0
Chloroform	Ave	2.224	2.243	0.2000	25.2	25.0	0.8	20.0
1,1,1-Trichloroethane	Ave	1.836	1.926	0.1000	26.2	25.0	4.9	20.0
Cyclohexane	Ave	2.896	3.013	0.1000	26.0	25.0	4.1	20.0
Carbon tetrachloride	Ave	1.571	1.776	0.1000	28.3	25.0	13.1	20.0
1,1-Dichloropropene	Ave	1.569	1.691		26.9	25.0	7.8	20.0
Isobutyl alcohol	Ave	0.0942	0.1301		864	625	38.2	50.0
Benzene	Ave	4.727	5.011	0.5000	26.5	25.0	6.0	20.0
1,2-Dichloroethane	Ave	2.350	2.304	0.1000	24.5	25.0	-2.0	20.0
n-Heptane	Ave	2.982	3.369		28.2	25.0	13.0	20.0
Trichloroethene	Ave	1.254	1.368	0.2000	27.3	25.0	9.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394763/2 Calibration Date: 01/07/2018 17:24
 Instrument ID: HP5973N Calib Start Date: 12/28/2017 15:45
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/28/2017 18:55
 Lab File ID: N6096.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.025	2.282	0.1000	28.2	25.0	12.7	20.0
1,2-Dichloropropane	Ave	1.467	1.565	0.1000	26.7	25.0	6.7	20.0
Dibromomethane	Ave	0.8330	0.8862	0.1000	26.6	25.0	6.4	20.0
1,4-Dioxane	Lin1		0.0039		655	500	31.0	50.0
Bromodichloromethane	Ave	1.672	1.786	0.2000	26.7	25.0	6.8	20.0
2-Chloroethyl vinyl ether	Ave	1.052	1.259		29.9	25.0	19.7	20.0
cis-1,3-Dichloropropene	Ave	1.889	2.127	0.2000	28.1	25.0	12.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2321	0.2496	0.1000	134	125	7.5	20.0
Toluene	Ave	0.8225	0.8326	0.4000	25.3	25.0	1.2	20.0
trans-1,3-Dichloropropene	Ave	0.4736	0.4902	0.1000	25.9	25.0	3.5	20.0
Ethyl methacrylate	Ave	0.4409	0.4851		27.5	25.0	10.0	20.0
1,1,2-Trichloroethane	Ave	0.2476	0.2531	0.1000	25.6	25.0	2.2	20.0
Tetrachloroethene	Ave	0.3583	0.3970	0.2000	27.7	25.0	10.8	20.0
1,3-Dichloropropane	Ave	0.4950	0.5109		25.8	25.0	3.2	20.0
2-Hexanone	Ave	0.5000	0.5127	0.1000	128	125	2.5	20.0
Dibromochloromethane	Ave	0.3468	0.3747	0.1000	27.0	25.0	8.0	20.0
1,2-Dibromoethane	Ave	0.3207	0.3360		26.2	25.0	4.8	20.0
Chlorobenzene	Ave	0.9583	0.9745	0.5000	25.4	25.0	1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3526	0.3551		25.2	25.0	0.7	20.0
Ethylbenzene	Ave	1.562	1.591	0.1000	25.5	25.0	1.8	20.0
m,p-Xylene	Ave	0.6165	0.6246	0.1000	25.3	25.0	1.3	20.0
o-Xylene	Ave	0.6171	0.6249	0.3000	25.3	25.0	1.3	20.0
Styrene	Ave	1.019	1.087	0.3000	26.7	25.0	6.7	20.0
Bromoform	Ave	0.2490	0.2626	0.1000	26.4	25.0	5.4	50.0
Isopropylbenzene	Ave	2.948	3.059	0.1000	25.9	25.0	3.8	20.0
Bromobenzene	Ave	0.7732	0.7773		25.1	25.0	0.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8204	0.8204	0.3000	25.0	25.0	0.0	20.0
1,2,3-Trichloropropane	Ave	0.2596	0.2592		25.0	25.0	-0.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3913	0.3974		25.4	25.0	1.6	50.0
N-Propylbenzene	Ave	3.421	3.482		25.4	25.0	1.8	20.0
2-Chlorotoluene	Ave	0.7243	0.7331		25.3	25.0	1.2	20.0
1,3,5-Trimethylbenzene	Ave	2.473	2.509		25.4	25.0	1.5	20.0
4-Chlorotoluene	Ave	2.420	2.326		24.0	25.0	-3.9	20.0
tert-Butylbenzene	Ave	0.5633	0.5912		26.2	25.0	4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.570	2.562		24.9	25.0	-0.3	20.0
sec-Butylbenzene	Ave	3.099	3.220		26.0	25.0	3.9	20.0
1,3-Dichlorobenzene	Ave	1.465	1.505	0.6000	25.7	25.0	2.7	20.0
4-Isopropyltoluene	Ave	2.722	2.824		25.9	25.0	3.7	20.0
1,4-Dichlorobenzene	Ave	1.519	1.550	0.5000	25.5	25.0	2.1	20.0
n-Butylbenzene	Ave	2.323	2.418		26.0	25.0	4.1	20.0
1,2-Dichlorobenzene	Ave	1.432	1.457	0.4000	25.4	25.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394763/2 Calibration Date: 01/07/2018 17:24
 Instrument ID: HP5973N Calib Start Date: 12/28/2017 15:45
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/28/2017 18:55
 Lab File ID: N6096.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1579	0.1599	0.0500	25.3	25.0	1.3	50.0
1,2,4-Trichlorobenzene	Ave	0.9076	0.9034	0.2000	24.9	25.0	-0.5	20.0
Hexachlorobutadiene	Ave	0.4171	0.4198		25.2	25.0	0.6	20.0
Naphthalene	Ave	2.665	2.584		24.2	25.0	-3.1	20.0
1,2,3-Trichlorobenzene	Ave	0.7911	0.7745		24.5	25.0	-2.1	20.0
Dibromofluoromethane (Surr)	Ave	1.291	1.248		24.2	25.0	-3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.774	1.702		24.0	25.0	-4.0	20.0
Toluene-d8 (Surr)	Ave	1.250	1.186		23.7	25.0	-5.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4233	0.4124		24.4	25.0	-2.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6096.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Jan-2018 17:24:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0068396-002
 Operator ID: AS Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:36:00 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: sonkera

Date: 07-Jan-2018 17:43:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	190354	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	773388	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.790	0.000	95	419230	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	237475	25.0	24.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	324074	25.0	24.0	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	917195	25.0	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	92	318913	25.0	24.4	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	225196	25.0	24.5	
13 Chloromethane	50	1.513	1.513	0.000	99	480108	25.0	22.6	
14 Vinyl chloride	62	1.598	1.598	0.000	98	342747	25.0	24.4	
144 Butadiene	54	1.622	1.622	0.000	95	360538	25.0	22.1	
15 Bromomethane	94	1.902	1.902	0.000	90	178847	25.0	24.6	
16 Chloroethane	64	1.999	1.999	0.000	96	200631	25.0	24.3	
18 Trichlorofluoromethane	101	2.200	2.200	0.000	75	355794	25.0	24.8	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	94	412099	25.0	21.8	
19 Ethyl ether	59	2.480	2.480	0.000	96	322674	25.0	25.6	
20 Acrolein	56	2.632	2.632	0.000	99	445892	125.0	136.8	
22 1,1-Dichloroethene	96	2.687	2.687	0.000	91	170707	25.0	22.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.736	0.000	91	195881	25.0	27.7	
23 Acetone	43	2.784	2.784	0.000	98	912470	125.0	212.9	
24 Iodomethane	142	2.833	2.833	0.000	100	401942	25.0	26.7	
25 Carbon disulfide	76	2.882	2.882	0.000	99	667766	25.0	25.9	
27 3-Chloro-1-propene	41	3.046	3.046	0.000	87	658989	25.0	24.9	
28 Methyl acetate	43	3.082	3.082	0.000	100	876214	50.0	55.7	
30 Methylene Chloride	84	3.174	3.174	0.000	90	236946	25.0	24.5	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	97	441672	250.0	464.2	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	96	820803	25.0	26.6	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	89	233620	25.0	26.3	
34 Acrylonitrile	53	3.435	3.435	0.000	98	2093486	250.0	281.7	
35 Hexane	57	3.630	3.630	0.000	95	521384	25.0	27.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	513628	25.0	25.4	
39 Vinyl acetate	43	3.867	3.867	0.000	96	2237950	50.0	56.0	
42 2,2-Dichloropropane	77	4.335	4.335	0.000	87	334658	25.0	26.6	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	265807	25.0	25.7	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1409091	125.0	153.5	
47 Chlorobromomethane	128	4.585	4.585	0.000	88	143029	25.0	26.6	
49 Tetrahydrofuran	42	4.615	4.615	0.000	92	364715	50.0	56.6	
50 Chloroform	83	4.664	4.664	0.000	96	426889	25.0	25.2	
51 1,1,1-Trichloroethane	97	4.798	4.798	0.000	97	366661	25.0	26.2	
52 Cyclohexane	56	4.822	4.822	0.000	94	573629	25.0	26.0	
53 Carbon tetrachloride	117	4.938	4.938	0.000	97	338112	25.0	28.3	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	86	321865	25.0	26.9	
56 Isobutyl alcohol	43	5.132	5.132	0.000	95	619182	625.0	863.6	
55 Benzene	78	5.145	5.145	0.000	95	953865	25.0	26.5	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	96	438593	25.0	24.5	
59 n-Heptane	43	5.351	5.351	0.000	96	641364	25.0	28.2	
60 Trichloroethene	95	5.753	5.753	0.000	94	260477	25.0	27.3	
62 Methylcyclohexane	83	5.893	5.893	0.000	96	434342	25.0	28.2	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	90	297979	25.0	26.7	
64 Dibromomethane	93	6.106	6.106	0.000	92	168683	25.0	26.6	
66 1,4-Dioxane	88	6.124	6.124	0.000	94	59510	500.0	655.1	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	339968	25.0	26.7	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	86	239608	25.0	29.9	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	86	404802	25.0	28.1	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	965236	125.0	134.4	
73 Toluene	92	6.982	6.982	0.000	97	643927	25.0	25.3	
75 trans-1,3-Dichloropropene	75	7.243	7.243	0.000	91	379134	25.0	25.9	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	375151	25.0	27.5	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	93	195749	25.0	25.6	
79 Tetrachloroethene	166	7.523	7.523	0.000	96	307023	25.0	27.7	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	91	395120	25.0	25.8	
82 2-Hexanone	43	7.663	7.663	0.000	99	1982463	125.0	128.2	
83 Chlorodibromomethane	129	7.827	7.827	0.000	90	289786	25.0	27.0	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	259830	25.0	26.2	
85 Chlorobenzene	112	8.418	8.418	0.000	94	753678	25.0	25.4	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	92	274598	25.0	25.2	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1230305	25.0	25.5	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	483076	25.0	25.3	
91 o-Xylene	106	9.069	9.069	0.000	97	483311	25.0	25.3	
92 Styrene	104	9.093	9.093	0.000	95	840660	25.0	26.7	
93 Bromoform	173	9.324	9.324	0.000	97	203058	25.0	26.4	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1282619	25.0	25.9	
97 Bromobenzene	156	9.792	9.792	0.000	89	325869	25.0	25.1	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	95	343918	25.0	25.0	
99 1,2,3-Trichloropropane	110	9.865	9.865	0.000	92	108678	25.0	25.0	
101 trans-1,4-Dichloro-2-buten	53	9.884	9.884	0.000	78	166620	25.0	25.4	
100 N-Propylbenzene	91	9.890	9.890	0.000	99	1459942	25.0	25.4	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	307333	25.0	25.3	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	1051804	25.0	25.4	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	975225	25.0	24.0	
106 tert-Butylbenzene	134	10.389	10.389	0.000	95	247835	25.0	26.2	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	1074072	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	1350054	25.0	26.0	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	630962	25.0	25.7	
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	1183957	25.0	25.9	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	95	649889	25.0	25.5	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	1013755	25.0	26.0	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	610689	25.0	25.4	
117 1,2-Dibromo-3-Chloropropan	75	11.885	11.885	0.000	86	67049	25.0	25.3	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	378729	25.0	24.9	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	97	175974	25.0	25.2	
121 Naphthalene	128	12.779	12.779	0.000	97	1083102	25.0	24.2	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	324692	25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
N_8260_Surr_00311	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6096.D

Injection Date: 07-Jan-2018 17:24:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

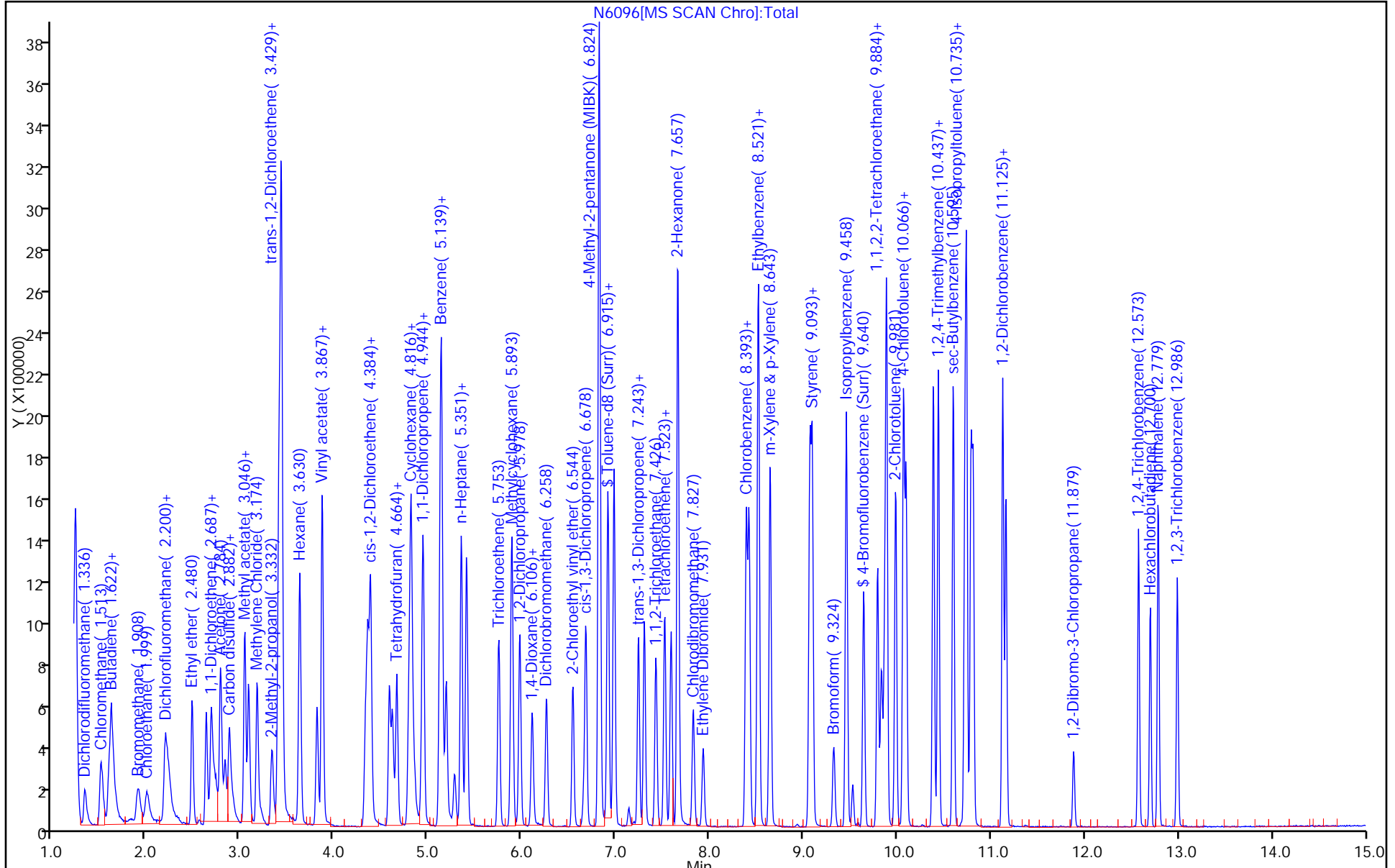
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

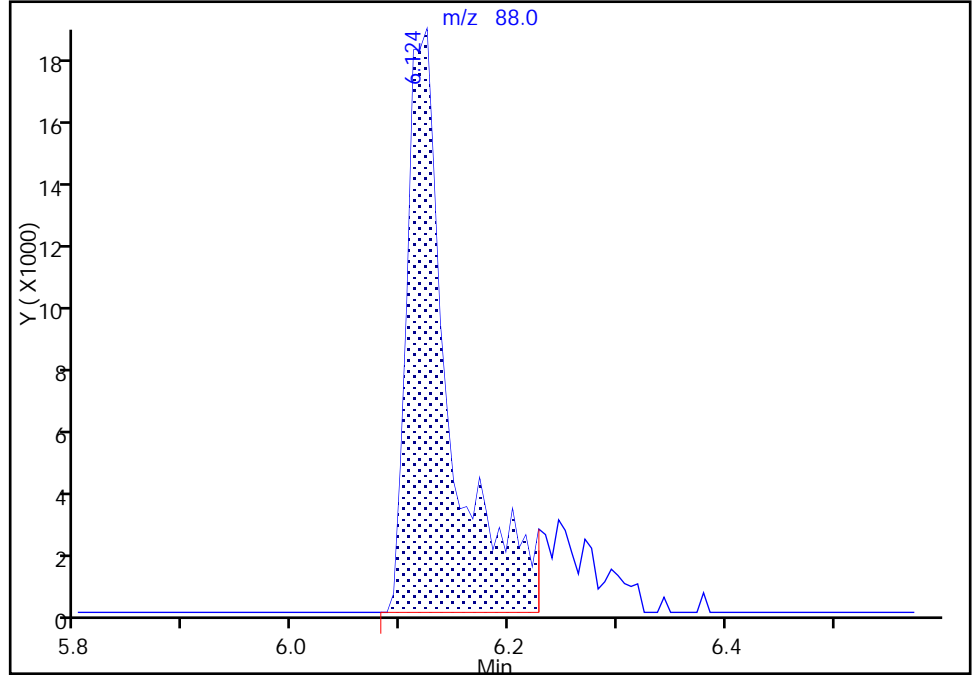
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6096.D
Injection Date: 07-Jan-2018 17:24:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AS ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

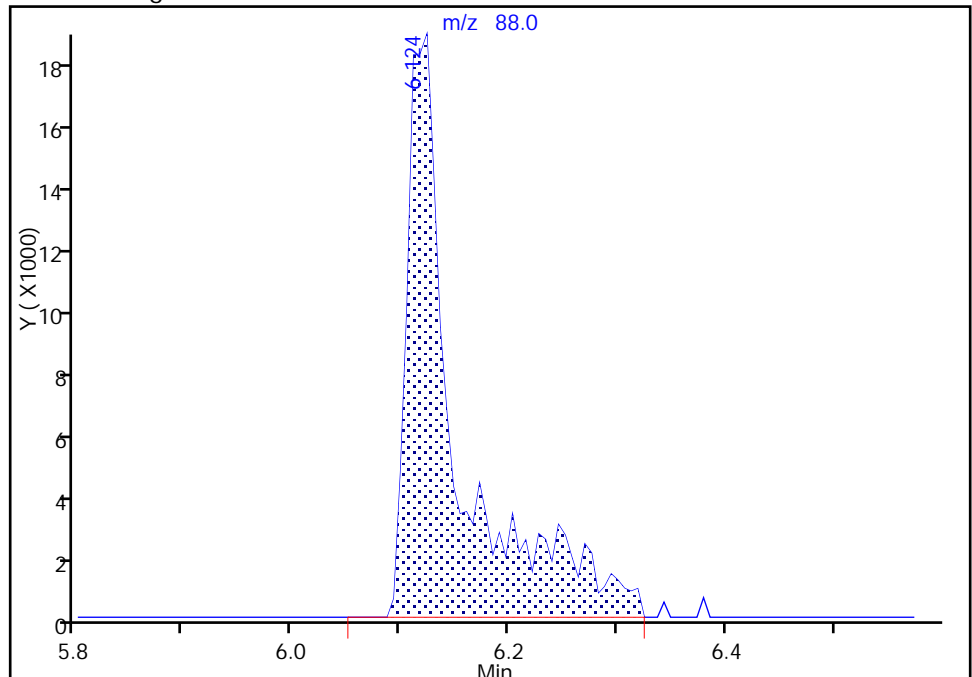
RT: 6.12
Area: 50686
Amount: 559.7391
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 59510
Amount: 655.0691
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 07-Jan-2018 17:43:04
Audit Action: Manually Integrated

Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394793/3 Calibration Date: 01/08/2018 09:25
 Instrument ID: HP5973N Calib Start Date: 12/28/2017 15:45
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/28/2017 18:55
 Lab File ID: N6123.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.206	1.307	0.1000	27.1	25.0	8.4	50.0
Chloromethane	Ave	2.793	2.553	0.1000	22.9	25.0	-8.6	20.0
Vinyl chloride	Ave	1.847	1.879	0.1000	25.4	25.0	1.7	20.0
Butadiene	Ave	2.141	2.005		23.4	25.0	-6.3	20.0
Bromomethane	Ave	0.9564	0.9715	0.1000	25.4	25.0	1.6	50.0
Chloroethane	Ave	1.086	1.092	0.1000	25.1	25.0	0.6	50.0
Dichlorofluoromethane	Ave	2.480	2.289		23.1	25.0	-7.7	20.0
Trichlorofluoromethane	Ave	1.887	2.087	0.1000	27.6	25.0	10.6	20.0
Ethyl ether	Ave	1.654	1.672		25.3	25.0	1.1	20.0
Acrolein	Ave	0.4280	0.4702		137	125	9.9	50.0
1,1-Dichloroethene	Ave	0.9852	0.9402	0.1000	23.9	25.0	-4.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.9299	1.094	0.1000	29.4	25.0	17.7	20.0
Acetone	Ave	0.5629	0.9816	0.1000	218	125	74.4*	50.0
Iodomethane	Ave	1.980	2.089		26.4	25.0	5.5	20.0
Carbon disulfide	Ave	3.382	3.330	0.1000	24.6	25.0	-1.5	20.0
Allyl chloride	Ave	3.472	3.392		24.4	25.0	-2.3	20.0
Methyl acetate	Ave	2.065	2.138	0.1000	51.8	50.0	3.5	50.0
Methylene Chloride	Lin1		1.220	0.1000	24.0	25.0	-4.0	20.0
2-Methyl-2-propanol	Ave	0.1250	0.2143		429	250	71.5*	50.0
Methyl tert-butyl ether	Ave	4.057	4.210	0.1000	25.9	25.0	3.8	20.0
trans-1,2-Dichloroethene	Ave	1.169	1.203	0.1000	25.7	25.0	2.9	20.0
Acrylonitrile	Ave	0.9759	1.058		271	250	8.4	20.0
Hexane	Ave	2.463	2.639		26.8	25.0	7.2	20.0
1,1-Dichloroethane	Ave	2.652	2.638	0.2000	24.9	25.0	-0.5	20.0
Vinyl acetate	Ave	5.252	5.591		53.2	50.0	6.5	20.0
2,2-Dichloropropane	Ave	1.655	1.693		25.6	25.0	2.3	20.0
cis-1,2-Dichloroethene	Ave	1.358	1.364	0.1000	25.1	25.0	0.4	20.0
2-Butanone (MEK)	Ave	1.206	1.521	0.1000	158	125	26.2*	20.0
Chlorobromomethane	Ave	0.7071	0.7487		26.5	25.0	5.9	20.0
Tetrahydrofuran	Ave	0.8464	0.9467		55.9	50.0	11.9	20.0
Chloroform	Ave	2.224	2.183	0.2000	24.5	25.0	-1.8	20.0
1,1,1-Trichloroethane	Ave	1.836	1.914	0.1000	26.1	25.0	4.3	20.0
Cyclohexane	Ave	2.896	3.001	0.1000	25.9	25.0	3.6	20.0
Carbon tetrachloride	Ave	1.571	1.783	0.1000	28.4	25.0	13.5	20.0
1,1-Dichloropropene	Ave	1.569	1.674		26.7	25.0	6.7	20.0
Isobutyl alcohol	Ave	0.0942	0.1320		876	625	40.1	50.0
Benzene	Ave	4.727	4.819	0.5000	25.5	25.0	1.9	20.0
1,2-Dichloroethane	Ave	2.350	2.288	0.1000	24.3	25.0	-2.7	20.0
n-Heptane	Ave	2.982	3.247		27.2	25.0	8.9	20.0
Trichloroethene	Ave	1.254	1.321	0.2000	26.3	25.0	5.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394793/3 Calibration Date: 01/08/2018 09:25
 Instrument ID: HP5973N Calib Start Date: 12/28/2017 15:45
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/28/2017 18:55
 Lab File ID: N6123.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.025	2.309	0.1000	28.5	25.0	14.0	20.0
1,2-Dichloropropane	Ave	1.467	1.500	0.1000	25.6	25.0	2.2	20.0
Dibromomethane	Ave	0.8330	0.8643	0.1000	25.9	25.0	3.8	20.0
1,4-Dioxane	Lin1		0.0038		647	500	29.5	50.0
Bromodichloromethane	Ave	1.672	1.744	0.2000	26.1	25.0	4.3	20.0
2-Chloroethyl vinyl ether	Ave	1.052	1.173		27.9	25.0	11.5	20.0
cis-1,3-Dichloropropene	Ave	1.889	1.988	0.2000	26.3	25.0	5.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2321	0.2390	0.1000	129	125	3.0	20.0
Toluene	Ave	0.8225	0.8284	0.4000	25.2	25.0	0.7	20.0
trans-1,3-Dichloropropene	Ave	0.4736	0.4865	0.1000	25.7	25.0	2.7	20.0
Ethyl methacrylate	Ave	0.4409	0.4550		25.8	25.0	3.2	20.0
1,1,2-Trichloroethane	Ave	0.2476	0.2481	0.1000	25.0	25.0	0.2	20.0
Tetrachloroethene	Ave	0.3583	0.4011	0.2000	28.0	25.0	11.9	20.0
1,3-Dichloropropane	Ave	0.4950	0.4932		24.9	25.0	-0.4	20.0
2-Hexanone	Ave	0.5000	0.5281	0.1000	132	125	5.6	20.0
Dibromochloromethane	Ave	0.3468	0.3698	0.1000	26.7	25.0	6.6	20.0
1,2-Dibromoethane	Ave	0.3207	0.3313		25.8	25.0	3.3	20.0
Chlorobenzene	Ave	0.9583	0.9690	0.5000	25.3	25.0	1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3526	0.3667		26.0	25.0	4.0	20.0
Ethylbenzene	Ave	1.562	1.569	0.1000	25.1	25.0	0.4	20.0
m,p-Xylene	Ave	0.6165	0.6091	0.1000	24.7	25.0	-1.2	20.0
o-Xylene	Ave	0.6171	0.6074	0.3000	24.6	25.0	-1.6	20.0
Styrene	Ave	1.019	1.062	0.3000	26.0	25.0	4.2	20.0
Bromoform	Ave	0.2490	0.2517	0.1000	25.3	25.0	1.1	50.0
Isopropylbenzene	Ave	2.948	3.033	0.1000	25.7	25.0	2.9	20.0
Bromobenzene	Ave	0.7732	0.8008		25.9	25.0	3.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8204	0.8307	0.3000	25.3	25.0	1.3	20.0
1,2,3-Trichloropropane	Ave	0.2596	0.2601		25.1	25.0	0.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3913	0.3870		24.7	25.0	-1.1	50.0
N-Propylbenzene	Ave	3.421	3.466		25.3	25.0	1.3	20.0
2-Chlorotoluene	Ave	0.7243	0.7416		25.6	25.0	2.4	20.0
1,3,5-Trimethylbenzene	Ave	2.473	2.550		25.8	25.0	3.1	20.0
4-Chlorotoluene	Ave	2.420	2.376		24.5	25.0	-1.8	20.0
tert-Butylbenzene	Ave	0.5633	0.5849		26.0	25.0	3.8	20.0
1,2,4-Trimethylbenzene	Ave	2.570	2.613		25.4	25.0	1.7	20.0
sec-Butylbenzene	Ave	3.099	3.240		26.1	25.0	4.6	20.0
1,3-Dichlorobenzene	Ave	1.465	1.542	0.6000	26.3	25.0	5.2	20.0
4-Isopropyltoluene	Ave	2.722	2.829		26.0	25.0	3.9	20.0
1,4-Dichlorobenzene	Ave	1.519	1.545	0.5000	25.4	25.0	1.7	20.0
n-Butylbenzene	Ave	2.323	2.444		26.3	25.0	5.2	20.0
1,2-Dichlorobenzene	Ave	1.432	1.485	0.4000	25.9	25.0	3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394793/3 Calibration Date: 01/08/2018 09:25
 Instrument ID: HP5973N Calib Start Date: 12/28/2017 15:45
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/28/2017 18:55
 Lab File ID: N6123.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1579	0.1596	0.0500	25.3	25.0	1.0	50.0
1,2,4-Trichlorobenzene	Ave	0.9076	0.9246	0.2000	25.5	25.0	1.9	20.0
Hexachlorobutadiene	Ave	0.4171	0.4472		26.8	25.0	7.2	20.0
Naphthalene	Ave	2.665	2.698		25.3	25.0	1.2	20.0
1,2,3-Trichlorobenzene	Ave	0.7911	0.8232		26.0	25.0	4.1	20.0
Dibromofluoromethane (Surr)	Ave	1.291	1.280		24.8	25.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.774	1.763		24.9	25.0	-0.6	20.0
Toluene-d8 (Surr)	Ave	1.250	1.220		24.4	25.0	-2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4233	0.4225		25.0	25.0	-0.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6123.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 08-Jan-2018 09:25:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0068404-003
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 16:36:29 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: scibilliam

Date: 08-Jan-2018 09:52:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	177811	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	88	709733	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.790	0.000	95	376852	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	227569	25.0	24.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	313488	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	865692	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	92	299874	25.0	25.0	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	232390	25.0	27.1	
13 Chloromethane	50	1.507	1.507	0.000	99	453974	25.0	22.9	
14 Vinyl chloride	62	1.598	1.598	0.000	97	334067	25.0	25.4	
144 Butadiene	54	1.628	1.628	0.000	95	356453	25.0	23.4	
15 Bromomethane	94	1.902	1.902	0.000	90	172748	25.0	25.4	
16 Chloroethane	64	1.993	1.993	0.000	98	194229	25.0	25.1	
18 Trichlorofluoromethane	101	2.200	2.200	0.000	76	371032	25.0	27.6	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	94	407067	25.0	23.1	
19 Ethyl ether	59	2.480	2.480	0.000	96	297341	25.0	25.3	
20 Acrolein	56	2.632	2.632	0.000	98	418071	125.0	137.3	
22 1,1-Dichloroethene	96	2.687	2.687	0.000	91	167175	25.0	23.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.723	2.723	0.000	89	194565	25.0	29.4	
23 Acetone	43	2.784	2.784	0.000	98	872721	125.0	218.0	M
24 Iodomethane	142	2.833	2.833	0.000	99	371379	25.0	26.4	
25 Carbon disulfide	76	2.882	2.882	0.000	98	592094	25.0	24.6	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	87	603221	25.0	24.4	
28 Methyl acetate	43	3.082	3.082	0.000	100	760296	50.0	51.8	
30 Methylene Chloride	84	3.174	3.174	0.000	89	216925	25.0	24.0	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	97	381054	250.0	428.7	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	96	748669	25.0	25.9	
33 trans-1,2-Dichloroethene	96	3.411	3.411	0.000	93	213922	25.0	25.7	
34 Acrylonitrile	53	3.435	3.435	0.000	98	1881364	250.0	271.1	
35 Hexane	57	3.630	3.630	0.000	96	469279	25.0	26.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.818	3.818	0.000	97	469011	25.0	24.9	
39 Vinyl acetate	43	3.867	3.867	0.000	96	1988437	50.0	53.2	
42 2,2-Dichloropropane	77	4.336	4.336	0.000	86	301047	25.0	25.6	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	242503	25.0	25.1	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1352541	125.0	157.7	
47 Chlorobromomethane	128	4.591	4.591	0.000	90	133122	25.0	26.5	
49 Tetrahydrofuran	42	4.615	4.615	0.000	92	336676	50.0	55.9	
50 Chloroform	83	4.664	4.664	0.000	96	388147	25.0	24.5	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	340356	25.0	26.1	
52 Cyclohexane	56	4.822	4.822	0.000	95	533620	25.0	25.9	
53 Carbon tetrachloride	117	4.938	4.938	0.000	96	316989	25.0	28.4	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	87	297741	25.0	26.7	
56 Isobutyl alcohol	43	5.133	5.133	0.000	94	586582	625.0	875.8	
55 Benzene	78	5.145	5.145	0.000	94	856887	25.0	25.5	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	95	406813	25.0	24.3	
59 n-Heptane	43	5.352	5.352	0.000	96	577269	25.0	27.2	
60 Trichloroethene	95	5.753	5.753	0.000	92	234944	25.0	26.3	
62 Methylcyclohexane	83	5.893	5.893	0.000	95	410632	25.0	28.5	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	87	266737	25.0	25.6	
64 Dibromomethane	93	6.106	6.106	0.000	91	153684	25.0	25.9	
66 1,4-Dioxane	88	6.124	6.124	0.000	92	53961	500.0	647.4	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	96	310020	25.0	26.1	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	88	208625	25.0	27.9	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	83	353500	25.0	26.3	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	848202	125.0	128.7	
73 Toluene	92	6.982	6.982	0.000	97	587959	25.0	25.2	
75 trans-1,3-Dichloropropene	75	7.244	7.244	0.000	94	345314	25.0	25.7	
77 Ethyl methacrylate	69	7.304	7.304	0.000	89	322931	25.0	25.8	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	176087	25.0	25.0	
79 Tetrachloroethene	166	7.523	7.523	0.000	97	284690	25.0	28.0	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	90	350049	25.0	24.9	
82 2-Hexanone	43	7.663	7.663	0.000	99	1873983	125.0	132.0	
83 Chlorodibromomethane	129	7.828	7.828	0.000	90	262489	25.0	26.7	
84 Ethylene Dibromide	107	7.931	7.931	0.000	97	235155	25.0	25.8	
85 Chlorobenzene	112	8.418	8.418	0.000	94	687723	25.0	25.3	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	92	260285	25.0	26.0	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1113367	25.0	25.1	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	432289	25.0	24.7	
91 o-Xylene	106	9.069	9.069	0.000	98	431094	25.0	24.6	
92 Styrene	104	9.093	9.093	0.000	95	753633	25.0	26.0	
93 Bromoform	173	9.324	9.324	0.000	97	178642	25.0	25.3	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1142810	25.0	25.7	
97 Bromobenzene	156	9.793	9.793	0.000	87	301779	25.0	25.9	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	313036	25.0	25.3	
99 1,2,3-Trichloropropane	110	9.866	9.866	0.000	92	98022	25.0	25.1	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	81	145832	25.0	24.7	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	1306336	25.0	25.3	
102 2-Chlorotoluene	126	9.987	9.987	0.000	97	279472	25.0	25.6	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	960874	25.0	25.8	
105 4-Chlorotoluene	91	10.097	10.097	0.000	97	895583	25.0	24.5	
106 tert-Butylbenzene	134	10.389	10.389	0.000	95	220409	25.0	26.0	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	984533	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	1220991	25.0	26.1	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	99	580952	25.0	26.3	
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	1066041	25.0	26.0	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	95	582372	25.0	25.4	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	920848	25.0	26.3	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	559550	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	81	60130	25.0	25.3	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	348452	25.0	25.5	
120 Hexachlorobutadiene	225	12.694	12.694	0.000	97	168531	25.0	26.8	
121 Naphthalene	128	12.786	12.786	0.000	97	1016559	25.0	25.3	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	97	310222	25.0	26.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
N_8260_Surr_00311	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6123.D

Injection Date: 08-Jan-2018 09:25:30

Instrument ID: HP5973N

Operator ID: AM/MS/RF

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

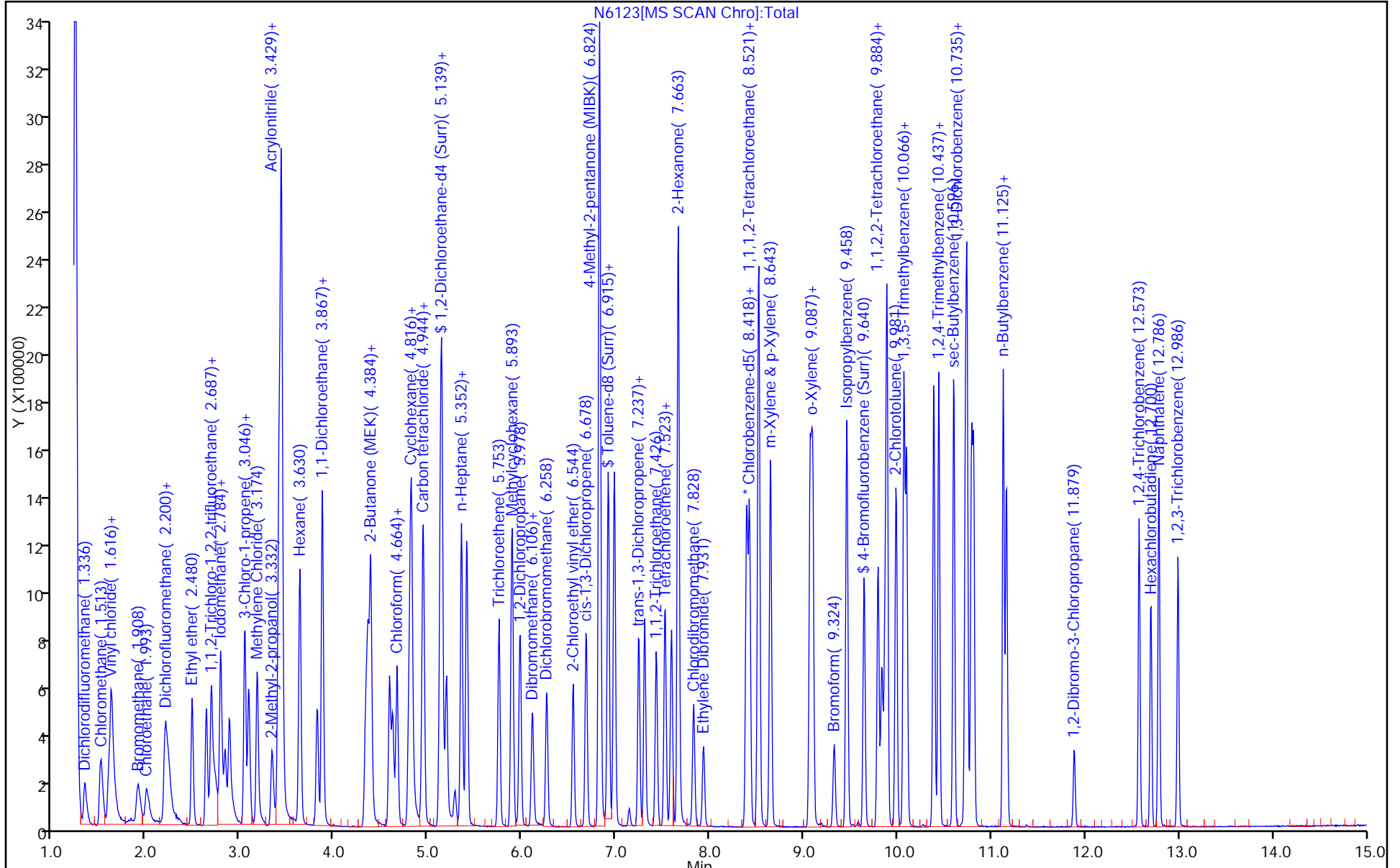
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

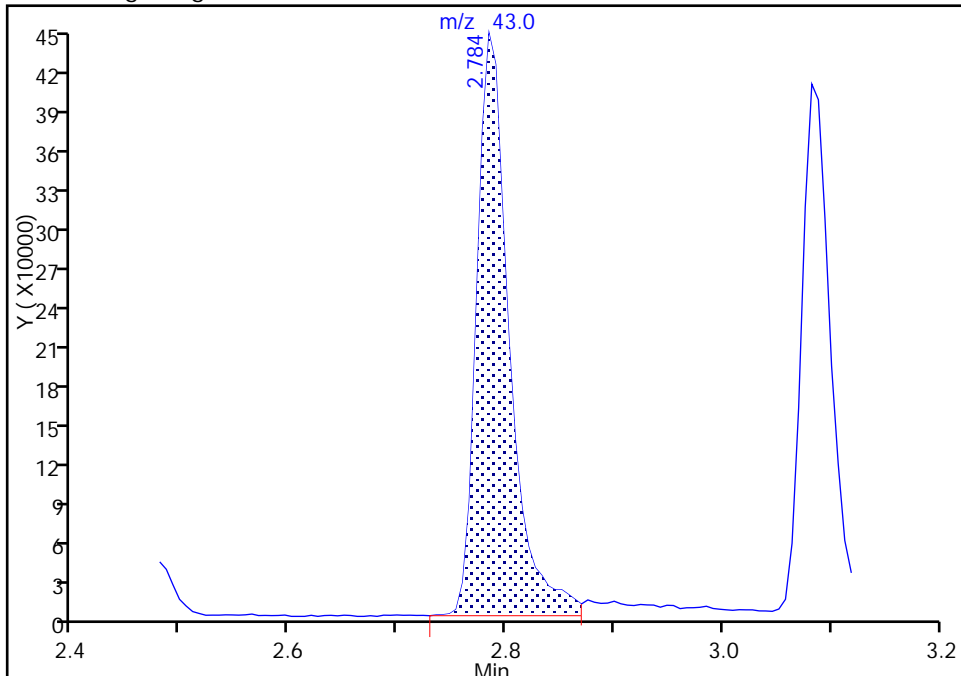
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Injection Date: 08-Jan-2018 09:25:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM/MS/RF ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

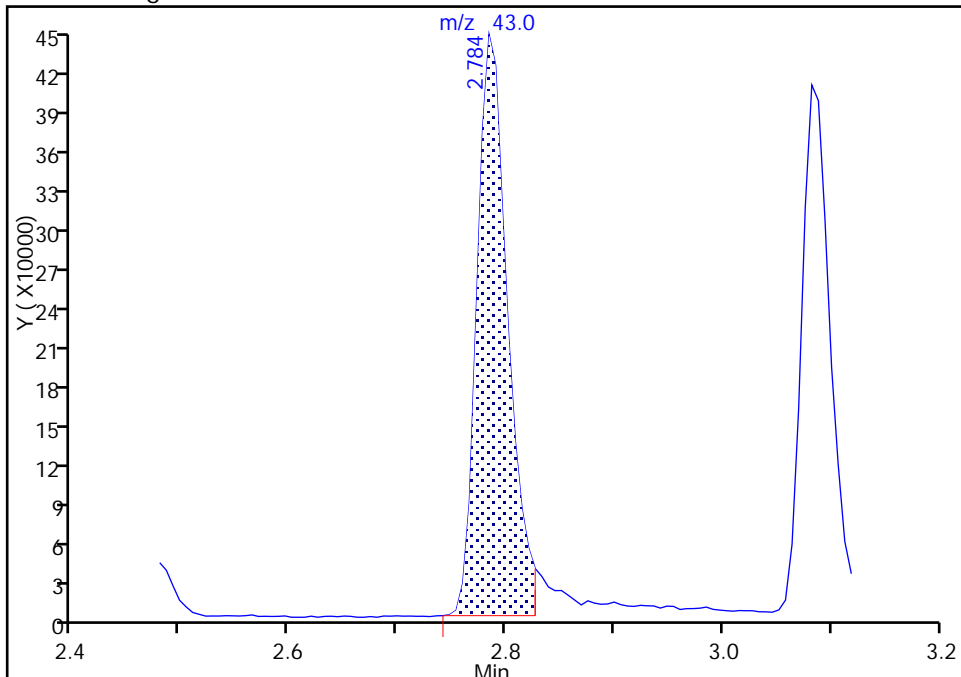
RT: 2.78
Area: 924296
Amount: 230.8574
Amount Units: ug/L

Processing Integration Results



RT: 2.78
Area: 872721
Amount: 217.9758
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 08-Jan-2018 09:45:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

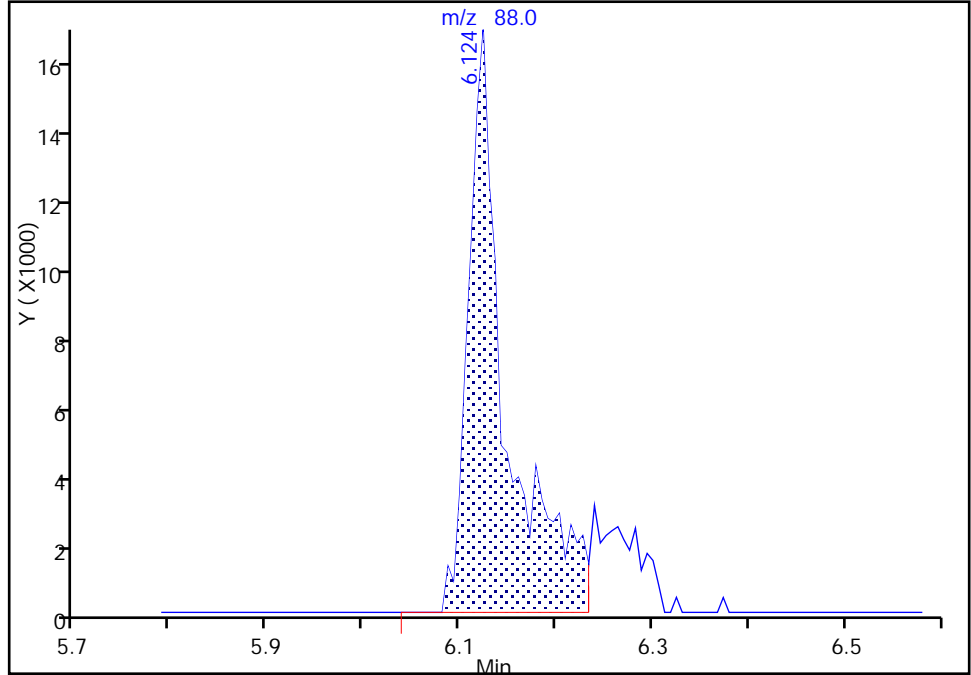
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6123.D
Injection Date: 08-Jan-2018 09:25:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM/MS/RF ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

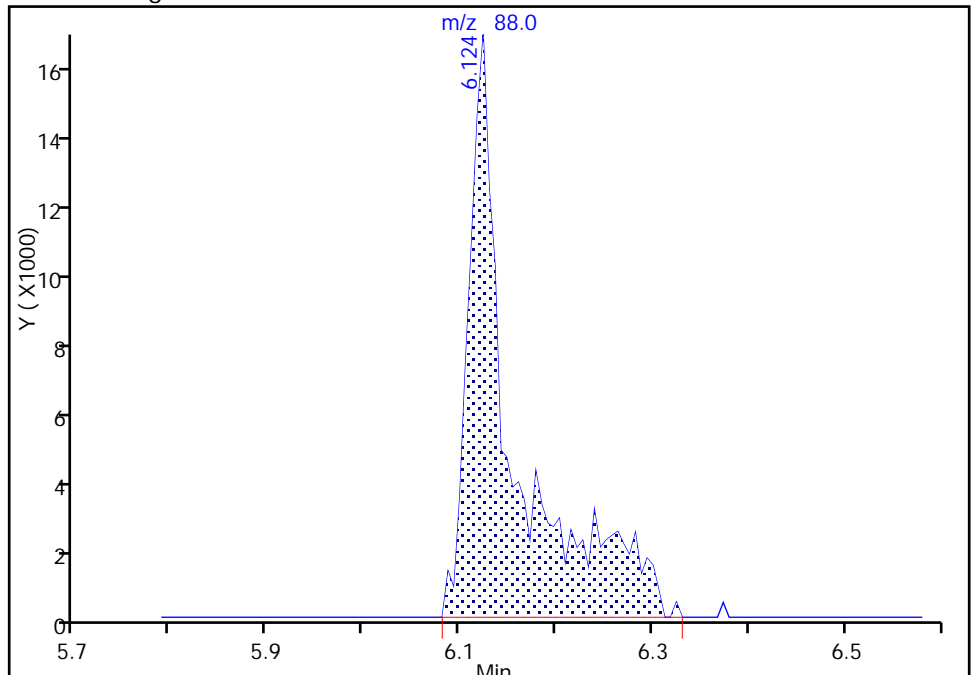
RT: 6.12
Area: 45262
Amount: 544.9977
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 53961
Amount: 647.4061
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 08-Jan-2018 09:52:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394701/3 Calibration Date: 01/05/2018 17:45
 Instrument ID: HP5975T Calib Start Date: 12/01/2017 15:10
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/01/2017 17:54
 Lab File ID: T3679.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.614	1.926	0.1000	29.8	25.0	19.4	50.0
Chloromethane	Ave	2.279	1.983	0.1000	21.8	25.0	-13.0	20.0
Butadiene	Ave	1.925	1.718		22.3	25.0	-10.8	20.0
Vinyl chloride	Ave	1.759	1.751	0.1000	24.9	25.0	-0.4	20.0
Bromomethane	Ave	1.027	1.197	0.1000	29.1	25.0	16.5	50.0
Chloroethane	Ave	0.9116	0.9244	0.1000	25.4	25.0	1.4	50.0
Dichlorofluoromethane	Lin1		2.406		25.5	25.0	2.1	20.0
Trichlorofluoromethane	Ave	2.372	2.821	0.1000	29.7	25.0	18.9	20.0
Ethyl ether	Ave	1.247	1.151		23.1	25.0	-7.7	20.0
Acrolein	Ave	0.2012	0.2417		150	125	20.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.121	1.457	0.1000	32.5	25.0	30.0*	20.0
1,1-Dichloroethene	Ave	1.081	1.232	0.1000	28.5	25.0	14.0	20.0
Acetone	Ave	0.4777	0.4635	0.1000	121	125	-3.0	50.0
Iodomethane	Ave	2.163	2.795		32.3	25.0	29.2*	20.0
Carbon disulfide	Ave	3.587	3.857	0.1000	26.9	25.0	7.5	20.0
Allyl chloride	Ave	3.024	2.569		21.2	25.0	-15.0	20.0
Methyl acetate	Ave	1.117	1.046	0.1000	46.8	50.0	-6.4	50.0
Methylene Chloride	Lin1		1.365	0.1000	25.7	25.0	2.7	20.0
2-Methyl-2-propanol	Ave	0.1171	0.1467		313	250	25.3	50.0
Methyl tert-butyl ether	Ave	3.839	4.069	0.1000	26.5	25.0	6.0	20.0
trans-1,2-Dichloroethene	Ave	1.213	1.470	0.1000	30.3	25.0	21.2*	20.0
Acrylonitrile	Ave	0.5458	0.5279		242	250	-3.3	20.0
Hexane	Ave	2.480	2.392		24.1	25.0	-3.6	20.0
1,1-Dichloroethane	Ave	2.600	2.684	0.2000	25.8	25.0	3.2	20.0
Vinyl acetate	Ave	3.554	3.314		46.6	50.0	-6.8	20.0
2,2-Dichloropropane	Ave	2.222	2.595		29.2	25.0	16.8	20.0
cis-1,2-Dichloroethene	Ave	1.408	1.639	0.1000	29.1	25.0	16.5	20.0
2-Butanone (MEK)	Ave	0.6873	0.6312	0.1000	115	125	-8.2	20.0
Chlorobromomethane	Ave	0.7220	0.8829		30.6	25.0	22.3*	20.0
Tetrahydrofuran	Ave	0.4736	0.4009		42.3	50.0	-15.4	20.0
Chloroform	Ave	2.569	2.770	0.2000	27.0	25.0	7.8	20.0
1,1,1-Trichloroethane	Ave	2.321	2.915	0.1000	31.4	25.0	25.6*	20.0
Cyclohexane	Ave	2.998	3.023	0.1000	25.2	25.0	0.8	20.0
Carbon tetrachloride	Ave	2.019	2.683	0.1000	33.2	25.0	32.9*	20.0
1,1-Dichloropropene	Ave	1.733	1.982		28.6	25.0	14.4	20.0
Benzene	Ave	4.620	4.934	0.5000	26.7	25.0	6.8	20.0
Isobutyl alcohol	Ave	0.0538	0.0622		723	625	15.6	50.0
1,2-Dichloroethane	Ave	2.456	2.625	0.1000	26.7	25.0	6.9	20.0
n-Heptane	Ave	2.929	2.809		24.0	25.0	-4.1	20.0
Trichloroethene	Ave	1.396	1.627	0.2000	29.1	25.0	16.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394701/3 Calibration Date: 01/05/2018 17:45
 Instrument ID: HP5975T Calib Start Date: 12/01/2017 15:10
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/01/2017 17:54
 Lab File ID: T3679.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.164	2.478	0.1000	28.6	25.0	14.5	20.0
1,2-Dichloropropane	Ave	1.391	1.402	0.1000	25.2	25.0	0.8	20.0
1,4-Dioxane	Ave	0.0017	0.0029		867	500	73.3*	50.0
Dibromomethane	Ave	0.8419	0.9146	0.1000	27.2	25.0	8.6	20.0
Bromodichloromethane	Ave	1.906	2.130	0.2000	27.9	25.0	11.8	20.0
2-Chloroethyl vinyl ether	Ave	0.9321	0.8736		23.4	25.0	-6.3	20.0
cis-1,3-Dichloropropene	Ave	2.041	2.119	0.2000	26.0	25.0	3.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4131	0.3382	0.1000	102	125	-18.1	20.0
Toluene	Ave	0.8094	0.8445	0.4000	26.1	25.0	4.3	20.0
trans-1,3-Dichloropropene	Ave	0.5450	0.5429	0.1000	24.9	25.0	-0.4	20.0
Ethyl methacrylate	Ave	0.4264	0.3832		22.5	25.0	-10.1	20.0
1,1,2-Trichloroethane	Ave	0.2383	0.2373	0.1000	24.9	25.0	-0.4	20.0
Tetrachloroethene	Ave	0.3940	0.5234	0.2000	33.2	25.0	32.8*	20.0
1,3-Dichloropropane	Ave	0.5169	0.4762		23.0	25.0	-7.9	20.0
2-Hexanone	Ave	0.2924	0.2421	0.1000	103	125	-17.2	20.0
Dibromochloromethane	Ave	0.3893	0.4362	0.1000	28.0	25.0	12.0	20.0
1,2-Dibromoethane	Ave	0.3242	0.3452		26.6	25.0	6.5	20.0
Chlorobenzene	Ave	1.005	1.053	0.5000	26.2	25.0	4.8	20.0
Ethylbenzene	Ave	1.672	1.668	0.1000	24.9	25.0	-0.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4127	0.4518		27.4	25.0	9.5	20.0
m,p-Xylene	Ave	0.6452	0.6791	0.1000	26.3	25.0	5.3	20.0
o-Xylene	Ave	0.6387	0.6646	0.3000	26.0	25.0	4.1	20.0
Styrene	Ave	1.087	1.147	0.3000	26.4	25.0	5.5	20.0
Bromoform	Ave	0.2472	0.2764	0.1000	28.0	25.0	11.8	50.0
Isopropylbenzene	Ave	2.959	3.028	0.1000	25.6	25.0	2.3	20.0
Bromobenzene	Ave	0.7862	0.8183		26.0	25.0	4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6533	0.5810	0.3000	22.2	25.0	-11.1	20.0
N-Propylbenzene	Ave	3.453	3.307		23.9	25.0	-4.2	20.0
1,2,3-Trichloropropane	Ave	0.2270	0.2351		25.9	25.0	3.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3082	0.2490		20.2	25.0	-19.2	50.0
2-Chlorotoluene	Ave	0.7076	0.7343		25.9	25.0	3.8	20.0
1,3,5-Trimethylbenzene	Ave	2.631	2.659		25.3	25.0	1.1	20.0
4-Chlorotoluene	Ave	2.247	2.126		23.7	25.0	-5.4	20.0
tert-Butylbenzene	Ave	0.5900	0.6256		26.5	25.0	6.0	20.0
1,2,4-Trimethylbenzene	Ave	2.769	2.746		24.8	25.0	-0.8	20.0
sec-Butylbenzene	Ave	3.054	3.273		26.8	25.0	7.2	20.0
4-Isopropyltoluene	Ave	2.978	3.303		27.7	25.0	10.9	20.0
1,3-Dichlorobenzene	Ave	1.511	1.631	0.6000	27.0	25.0	8.0	20.0
1,4-Dichlorobenzene	Ave	1.525	1.652	0.5000	27.1	25.0	8.3	20.0
n-Butylbenzene	Ave	2.494	2.515		25.2	25.0	0.8	20.0
1,2-Dichlorobenzene	Ave	1.452	1.527	0.4000	26.3	25.0	5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab Sample ID: CCVIS 480-394701/3 Calibration Date: 01/05/2018 17:45
 Instrument ID: HP5975T Calib Start Date: 12/01/2017 15:10
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 12/01/2017 17:54
 Lab File ID: T3679.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1321	0.1258	0.0500	23.8	25.0	-4.7	50.0
1,2,4-Trichlorobenzene	Ave	1.187	1.302	0.2000	27.4	25.0	9.7	20.0
Hexachlorobutadiene	Ave	0.6038	0.7138		29.6	25.0	18.2	20.0
Naphthalene	Ave	2.444	2.530		25.9	25.0	3.5	20.0
1,2,3-Trichlorobenzene	Ave	1.157	1.176		25.4	25.0	1.7	20.0
Dibromofluoromethane (Surr)	Ave	1.284	1.398		27.2	25.0	8.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.726	1.754		25.4	25.0	1.6	20.0
Toluene-d8 (Surr)	Ave	1.241	1.184		23.8	25.0	-4.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4139	0.4539		27.4	25.0	9.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3679.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 05-Jan-2018 17:45:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0068385-003
 Operator ID: kn Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 08:22:51 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 08-Jan-2018 08:22:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	104129	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	87	421312	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	95	257233	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	93	145594	25.0	27.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	182617	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	498700	25.0	23.8	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.103	0.000	93	191240	25.0	27.4	
11 Dichlorodifluoromethane	85	1.232	1.232	0.000	99	200598	25.0	29.8	
13 Chloromethane	50	1.398	1.398	0.000	99	206506	25.0	21.8	
14 Vinyl chloride	62	1.481	1.481	0.000	97	182354	25.0	24.9	
151 Butadiene	54	1.481	1.481	0.000	95	178869	25.0	22.3	
15 Bromomethane	94	1.771	1.771	0.000	93	124590	25.0	29.1	
16 Chloroethane	64	1.843	1.843	0.000	95	96257	25.0	25.4	
17 Trichlorofluoromethane	101	2.051	2.051	0.000	82	293697	25.0	29.7	
18 Dichlorofluoromethane	67	2.051	2.051	0.000	94	250495	25.0	25.5	
19 Ethyl ether	59	2.289	2.289	0.000	98	119807	25.0	23.1	
21 Acrolein	56	2.476	2.476	0.000	97	125834	125.0	150.1	
22 1,1-Dichloroethene	96	2.507	2.507	0.000	94	128322	25.0	28.5	
20 1,1,2-Trichloro-1,2,2-trif	101	2.507	2.507	0.000	59	151701	25.0	32.5	
23 Acetone	43	2.621	2.621	0.000	97	241320	125.0	121.3	M
24 Iodomethane	142	2.652	2.652	0.000	97	291084	25.0	32.3	
25 Carbon disulfide	76	2.683	2.683	0.000	99	401638	25.0	26.9	
27 3-Chloro-1-propene	41	2.849	2.849	0.000	85	267533	25.0	21.2	
28 Methyl acetate	43	2.890	2.890	0.000	100	217737	50.0	46.8	
30 Methylene Chloride	84	2.983	2.983	0.000	95	142174	25.0	25.7	
31 2-Methyl-2-propanol	59	3.128	3.128	0.000	98	152753	250.0	313.2	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	98	423736	25.0	26.5	
32 trans-1,2-Dichloroethene	96	3.180	3.180	0.000	95	153085	25.0	30.3	
34 Acrylonitrile	53	3.232	3.232	0.000	97	549699	250.0	241.8	
35 Hexane	57	3.346	3.346	0.000	91	249033	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.543	3.543	0.000	97	279502	25.0	25.8	
39 Vinyl acetate	43	3.584	3.584	0.000	97	690103	50.0	46.6	
42 2,2-Dichloropropane	77	3.989	3.989	0.000	92	270201	25.0	29.2	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	86	170688	25.0	29.1	
44 2-Butanone (MEK)	43	4.040	4.040	0.000	97	328622	125.0	114.8	
48 Tetrahydrofuran	42	4.217	4.217	0.000	90	83483	50.0	42.3	
47 Chlorobromomethane	128	4.217	4.217	0.000	96	91932	25.0	30.6	
50 Chloroform	83	4.279	4.279	0.000	96	288453	25.0	27.0	
52 Cyclohexane	56	4.372	4.372	0.000	97	314733	25.0	25.2	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	97	303556	25.0	31.4	
53 Carbon tetrachloride	117	4.476	4.476	0.000	96	279399	25.0	33.2	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	89	206395	25.0	28.6	
55 Benzene	78	4.652	4.652	0.000	93	513822	25.0	26.7	
56 Isobutyl alcohol	43	4.662	4.662	0.000	93	161829	625.0	722.6	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	97	273355	25.0	26.7	
59 n-Heptane	43	4.786	4.786	0.000	97	292473	25.0	24.0	
60 Trichloroethene	95	5.139	5.139	0.000	94	169445	25.0	29.1	
62 Methylcyclohexane	83	5.232	5.232	0.000	97	258063	25.0	28.6	
63 1,2-Dichloropropane	63	5.325	5.325	0.000	87	146027	25.0	25.2	
65 Dibromomethane	93	5.439	5.439	0.000	89	95231	25.0	27.2	
66 1,4-Dioxane	88	5.439	5.439	0.000	38	24387	500.0	866.6	
67 Dichlorobromomethane	83	5.553	5.553	0.000	97	221839	25.0	27.9	
69 2-Chloroethyl vinyl ether	63	5.761	5.761	0.000	92	90970	25.0	23.4	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	88	220681	25.0	26.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	97	712453	125.0	102.3	
73 Toluene	92	6.092	6.092	0.000	98	355791	25.0	26.1	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	98	228725	25.0	24.9	
77 Ethyl methacrylate	69	6.331	6.331	0.000	92	161447	25.0	22.5	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	96	99974	25.0	24.9	
79 Tetrachloroethene	166	6.496	6.496	0.000	97	220525	25.0	33.2	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	97	200616	25.0	23.0	
81 2-Hexanone	43	6.610	6.610	0.000	98	509890	125.0	103.5	
82 Chlorodibromomethane	129	6.755	6.755	0.000	89	183764	25.0	28.0	
83 Ethylene Dibromide	107	6.838	6.838	0.000	97	145448	25.0	26.6	
86 Chlorobenzene	112	7.191	7.191	0.000	93	443765	25.0	26.2	
88 Ethylbenzene	91	7.253	7.253	0.000	98	702848	25.0	24.9	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	93	190348	25.0	27.4	
90 m-Xylene & p-Xylene	106	7.336	7.336	0.000	0	286127	25.0	26.3	
91 o-Xylene	106	7.667	7.667	0.000	98	280003	25.0	26.0	
92 Styrene	104	7.688	7.688	0.000	95	483204	25.0	26.4	
93 Bromoform	173	7.885	7.885	0.000	97	116443	25.0	28.0	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	778800	25.0	25.6	
97 Bromobenzene	156	8.227	8.227	0.000	87	210482	25.0	26.0	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	96	149462	25.0	22.2	
99 N-Propylbenzene	91	8.279	8.279	0.000	98	850741	25.0	23.9	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	91	60473	25.0	25.9	
101 trans-1,4-Dichloro-2-buten	53	8.289	8.289	0.000	75	64056	25.0	20.2	
105 2-Chlorotoluene	126	8.362	8.362	0.000	96	188884	25.0	25.9	
104 1,3,5-Trimethylbenzene	105	8.414	8.414	0.000	97	684073	25.0	25.3	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	546900	25.0	23.7	
106 tert-Butylbenzene	134	8.673	8.673	0.000	93	160912	25.0	26.5	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	97	706452	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.849	8.849	0.000	95	841996	25.0	26.8	
111 4-Isopropyltoluene	119	8.973	8.973	0.000	98	849701	25.0	27.7	
110 1,3-Dichlorobenzene	146	8.984	8.984	0.000	97	419660	25.0	27.0	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	93	424988	25.0	27.1	
115 n-Butylbenzene	91	9.305	9.305	0.000	97	646960	25.0	25.2	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	97	392677	25.0	26.3	
117 1,2-Dibromo-3-Chloropropan	75	10.041	10.041	0.000	84	32368	25.0	23.8	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	95	334994	25.0	27.4	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	97	183608	25.0	29.6	
121 Naphthalene	128	10.901	10.901	0.000	97	650722	25.0	25.9	
122 1,2,3-Trichlorobenzene	180	11.098	11.098	0.000	96	302521	25.0	25.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00117	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
T_8260_IS_00183	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3679.D

Injection Date: 05-Jan-2018 17:45:30

Instrument ID: HP5975T

Operator ID: kn

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

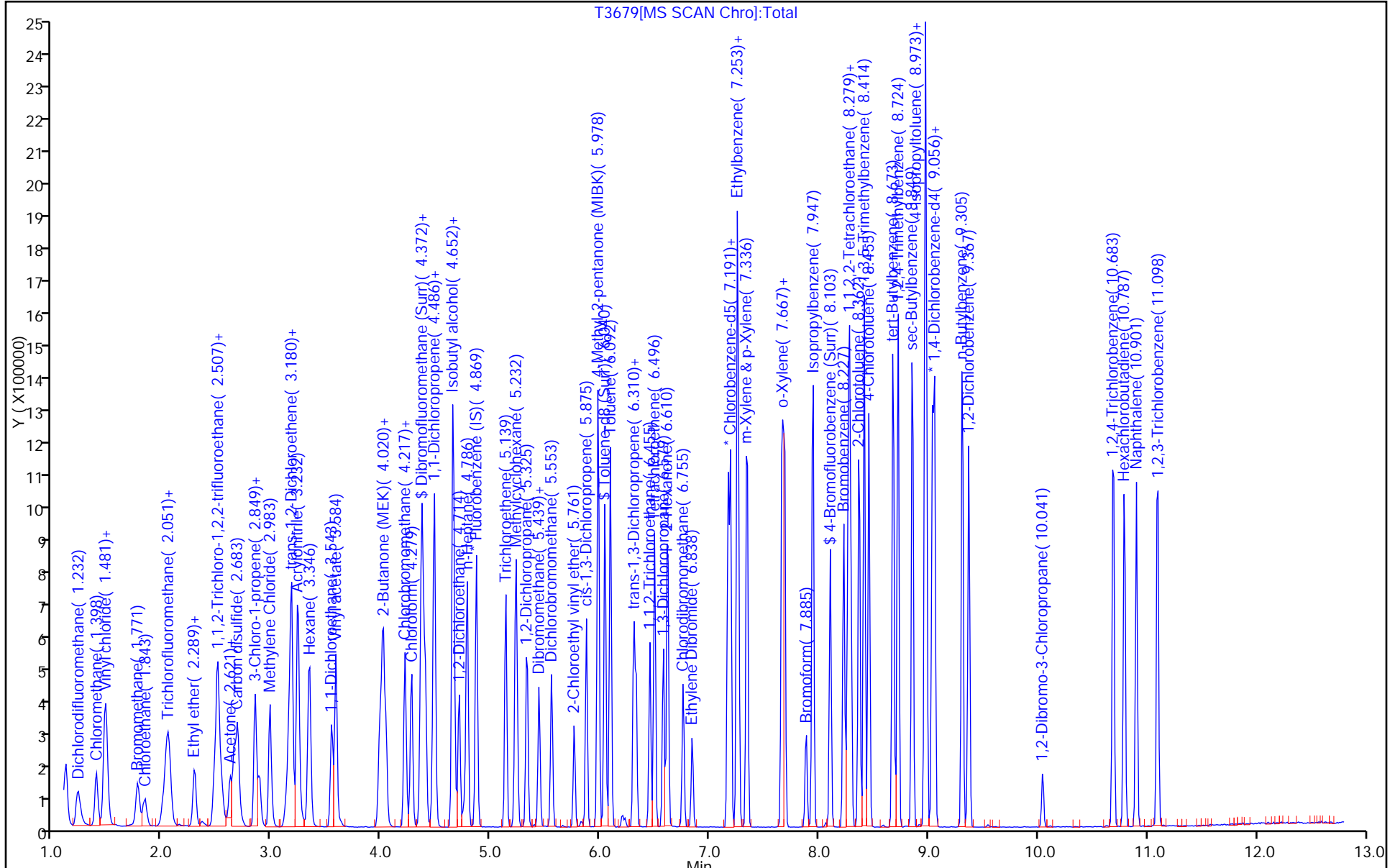
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

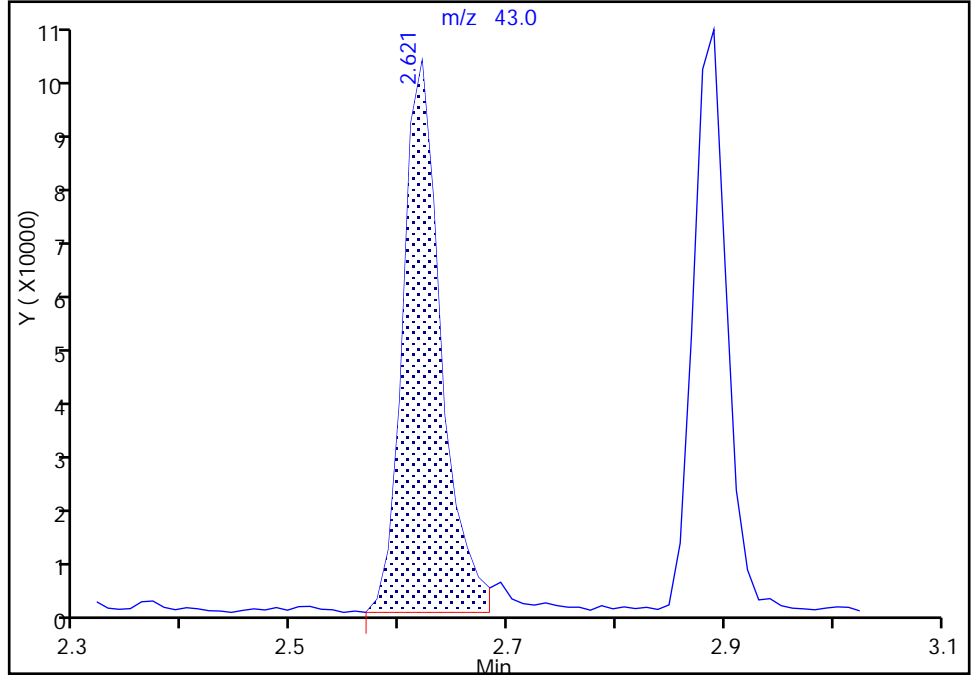
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3679.D
Injection Date: 05-Jan-2018 17:45:30 Instrument ID: HP5975T
Lims ID: CCVIS
Client ID:
Operator ID: kn ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

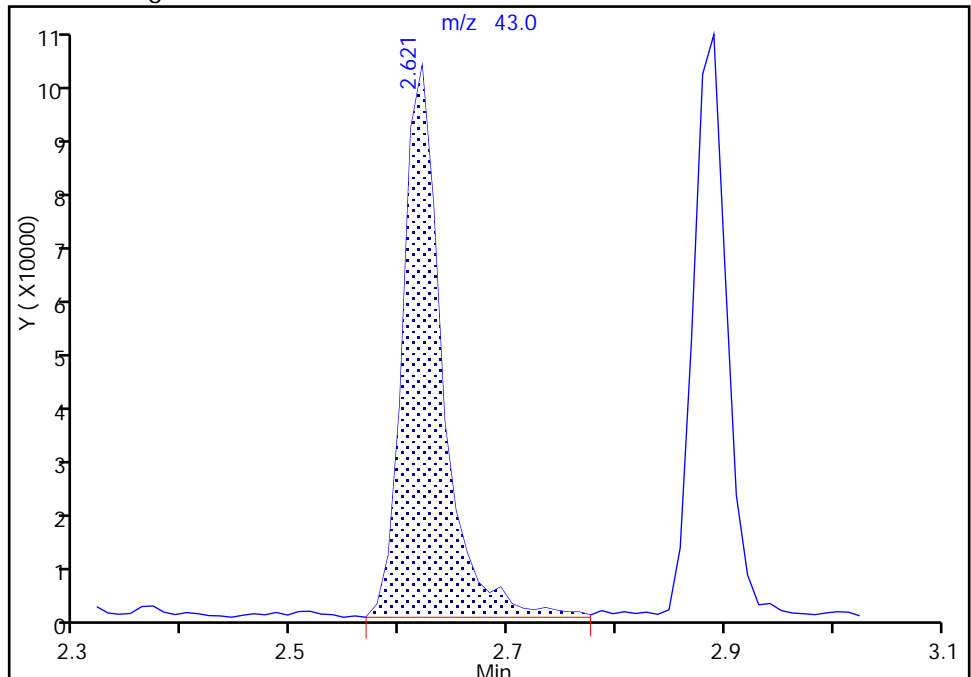
RT: 2.62
Area: 231853
Amount: 116.5326
Amount Units: ug/L

Processing Integration Results



RT: 2.62
Area: 241320
Amount: 121.2908
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 08-Jan-2018 08:22:03
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5943.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Dec-2017 14:51:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068271-004
 Operator ID: AM/LH/MS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Jan-2018 11:31:19 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: moffata Date: 03-Jan-2018 11:31:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.242	4.242	0.000	89	436103	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

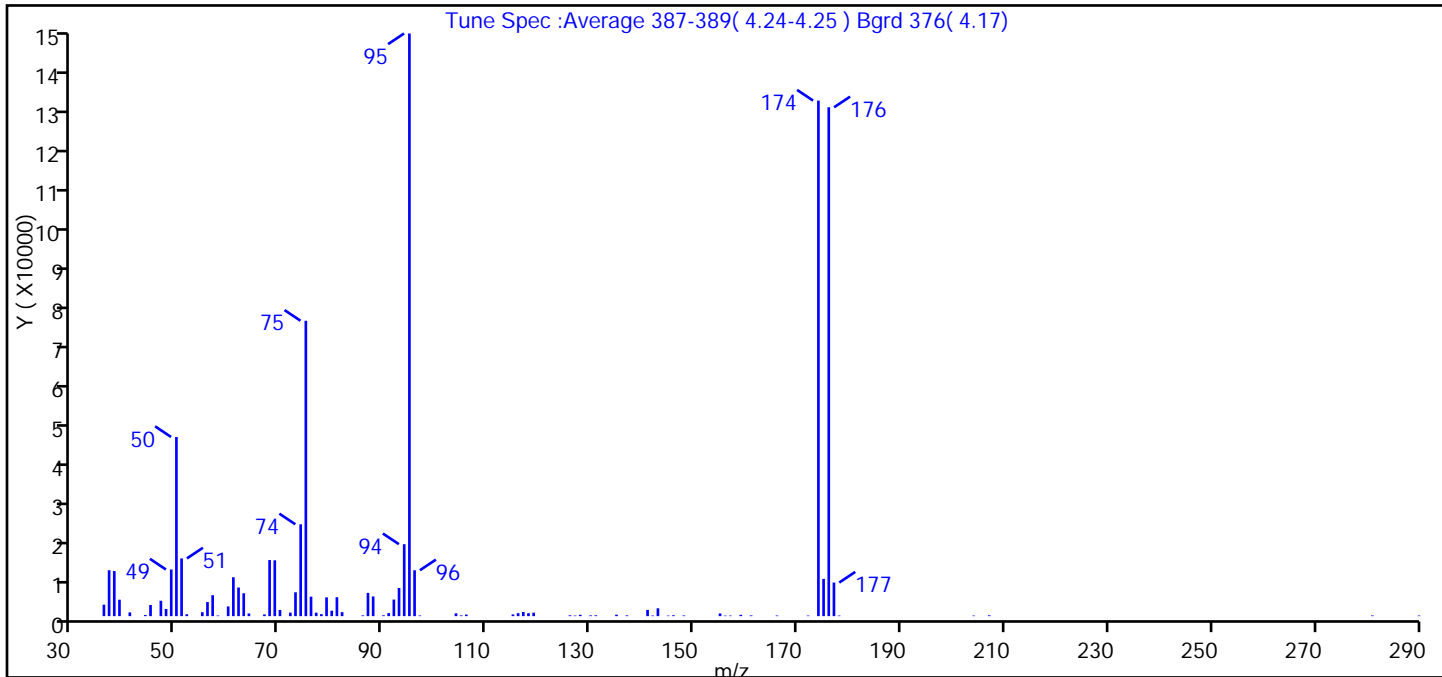
Reagents:

BFB_WRK_00066 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5943.D
 Injection Date: 28-Dec-2017 14:51:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: AM/LH/MS ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	30.7
75	30 to 60% of m/z 95	50.7
96	5 to 9% of m/z 95	7.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	88.5
175	5 to 9% of m/z 174	6.4 (7.2)
176	Greater than 95% but less than 101% of m/z 174	87.3 (98.7)
177	5 to 9% of m/z 176	5.8 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5943.D\N-8260.rslt\spectra.d
Injection Date: 28-Dec-2017 14:51:30
Spectrum: Tune Spec :Average 387-389(4.24-4.25) Bgrd 376(4.17)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2825	67.00	422	94.00	17704	145.00	136
37.00	11297	68.00	13803	95.00	143360	146.00	217
38.00	11089	69.00	13742	96.00	11287	148.00	175
39.00	4043	70.00	1506	97.00	161	155.00	662
41.00	927	72.00	870	104.00	690	156.00	136
44.00	277	73.00	5861	105.00	192	157.00	144
45.00	2742	74.00	22592	106.00	388	159.00	328
47.00	3792	75.00	72680	115.00	419	161.00	184
48.00	1759	76.00	4794	116.00	731	166.00	157
49.00	11480	77.00	859	117.00	1023	172.00	145
50.00	44080	78.00	488	118.00	724	174.00	126848
51.00	14203	79.00	4628	119.00	861	175.00	9164
52.00	461	80.00	1338	126.00	208	176.00	125200
55.00	964	81.00	4653	127.00	140	177.00	8266
56.00	3466	82.00	977	128.00	334	178.00	148
57.00	5152	86.00	187	130.00	187	204.00	141
58.00	151	87.00	5724	131.00	214	207.00	205
60.00	2393	88.00	4846	135.00	351	281.00	169
61.00	9559	90.00	207	137.00	192	290.00	154
62.00	7043	91.00	747	141.00	1530		
63.00	5625	92.00	4077	142.00	145		
64.00	657	93.00	6929	143.00	1931		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6095.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 07-Jan-2018 17:00:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068396-001
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Jan-2018 17:08:39 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: sonkera Date: 07-Jan-2018 17:08:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.242	4.242	0.000	92	409257	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

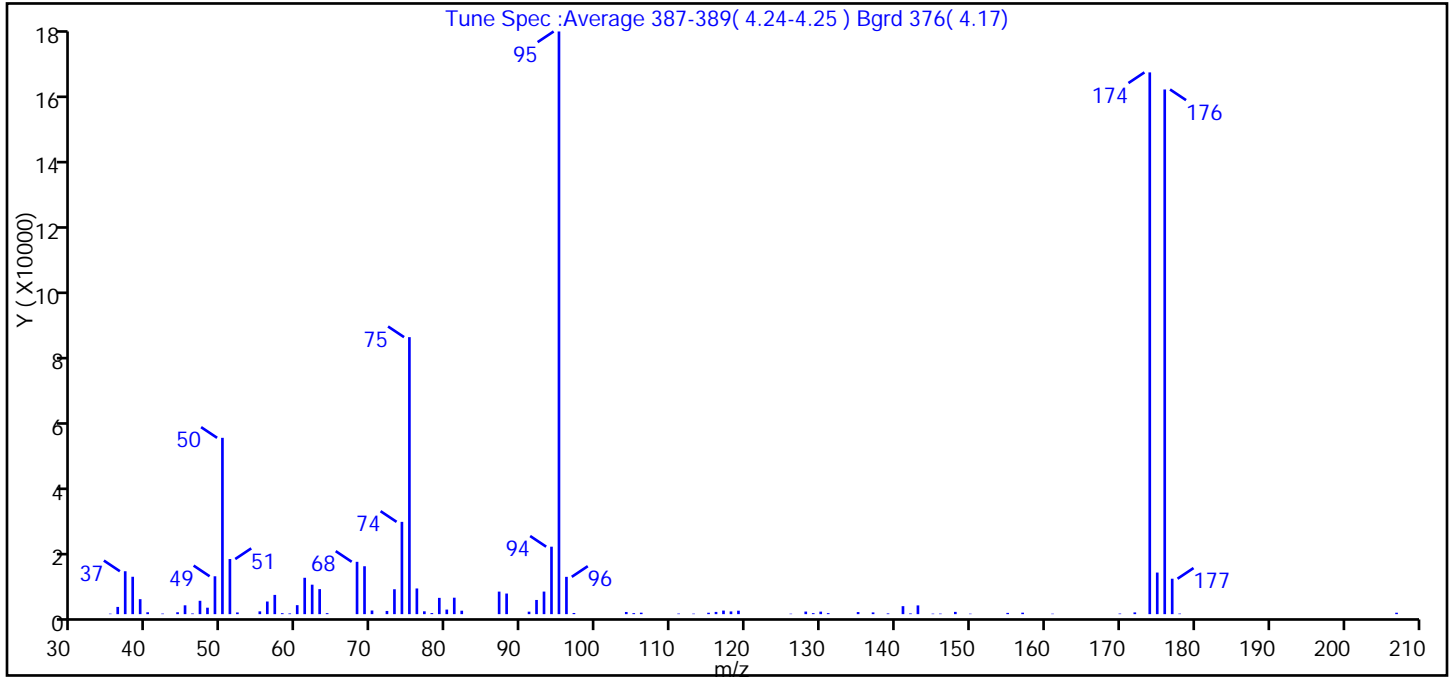
Reagents:

BFB_WRK_00067 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6095.D
 Injection Date: 07-Jan-2018 17:00:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: AS ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	30.3
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	93.0
175	5 to 9% of m/z 174	7.1 (7.7)
176	Greater than 95% but less than 101% of m/z 174	90.0 (96.8)
177	5 to 9% of m/z 176	6.1 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6095.D\N-8260.rslt\spectra.d
Injection Date: 07-Jan-2018 17:00:30
Spectrum: Tune Spec :Average 387-389(4.24-4.25) Bgrd 376(4.17)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	142	61.00	11037	93.00	6848	139.00	225
36.00	2194	62.00	8943	94.00	20472	141.00	2423
37.00	13020	63.00	7590	95.00	176832	142.00	215
38.00	11342	64.00	301	96.00	11320	143.00	2652
39.00	4546	68.00	15883	97.00	349	145.00	149
40.00	570	69.00	14537	104.00	658	146.00	160
42.00	170	70.00	1108	105.00	306	148.00	687
44.00	570	72.00	969	106.00	447	150.00	138
45.00	2678	73.00	7556	111.00	176	155.00	377
46.00	206	74.00	28008	113.00	151	157.00	444
47.00	4055	75.00	84064	115.00	426	161.00	134
48.00	1953	76.00	7793	116.00	676	170.00	178
49.00	11494	77.00	859	117.00	1083	172.00	526
50.00	53512	78.00	328	118.00	824	174.00	164416
51.00	16728	79.00	4941	119.00	1045	175.00	12622
52.00	514	80.00	1385	126.00	133	176.00	159232
55.00	844	81.00	4991	128.00	784	177.00	10752
56.00	3834	82.00	1047	129.00	303	178.00	168
57.00	5839	87.00	6840	130.00	762	207.00	433
58.00	289	88.00	6251	131.00	312		
59.00	211	91.00	750	135.00	633		
60.00	2726	92.00	4306	137.00	524		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6122.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 08-Jan-2018 08:59:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068404-002
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:09:35 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: scibiliam Date: 08-Jan-2018 09:09:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.278	4.278	0.000	0	251777	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

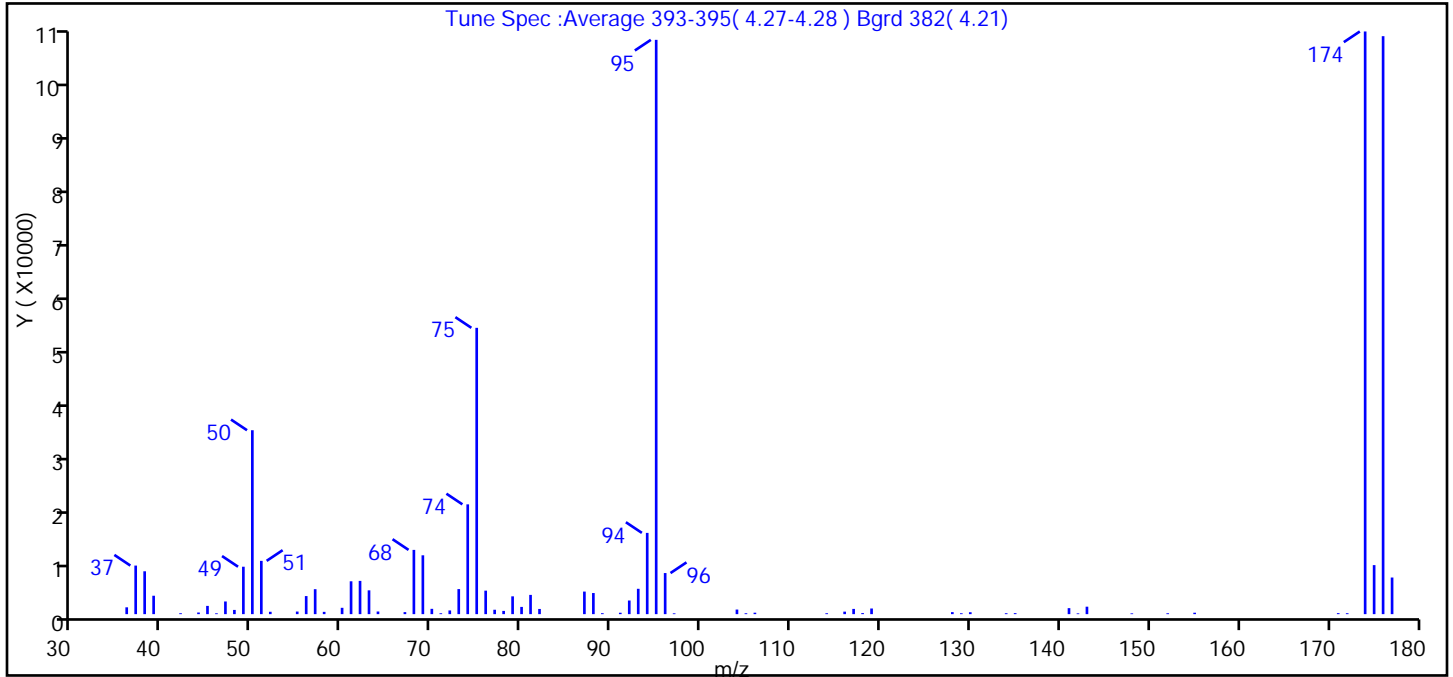
Reagents:

BFB_WRK_00067 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6122.D
 Injection Date: 08-Jan-2018 08:59:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: AM/MS/RF ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.0
75	30 to 60% of m/z 95	49.9
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	101.5
175	5 to 9% of m/z 174	8.5 (8.4)
176	Greater than 95% but less than 101% of m/z 174	100.6 (99.2)
177	5 to 9% of m/z 176	6.4 (6.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6122.D\N-8260.rslt\spectra.d
Injection Date: 08-Jan-2018 08:59:30
Spectrum: Tune Spec :Average 393-395(4.27-4.28) Bgrd 382(4.21)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1174	61.00	5654	82.00	892	128.00	347
37.00	8355	62.00	5720	87.00	3882	129.00	153
38.00	7373	63.00	4095	88.00	3632	130.00	330
39.00	3166	64.00	454	89.00	163	134.00	156
42.00	158	67.00	347	91.00	242	135.00	172
44.00	283	68.00	11054	92.00	2346	141.00	1032
45.00	1419	69.00	10123	93.00	4360	142.00	135
46.00	144	70.00	914	94.00	13979	143.00	1283
47.00	2179	71.00	152	95.00	98800	148.00	134
48.00	726	72.00	637	96.00	7069	152.00	154
49.00	8159	73.00	4310	97.00	139	155.00	244
50.00	31640	74.00	18888	104.00	789	171.00	174
51.00	9168	75.00	49256	105.00	154	172.00	160
52.00	408	76.00	4042	106.00	249	174.00	100240
55.00	446	77.00	756	114.00	155	175.00	8434
56.00	3109	78.00	556	116.00	431	176.00	99432
57.00	4292	79.00	3063	117.00	901	177.00	6301
58.00	394	80.00	1243	118.00	183		
60.00	1090	81.00	3312	119.00	971		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2457.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Dec-2017 14:21:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0067685-011
 Operator ID: RR Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2017 11:54:05 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK001

First Level Reviewer: reiler Date: 04-Dec-2017 11:25:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.565	5.565	0.000	0	452054	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

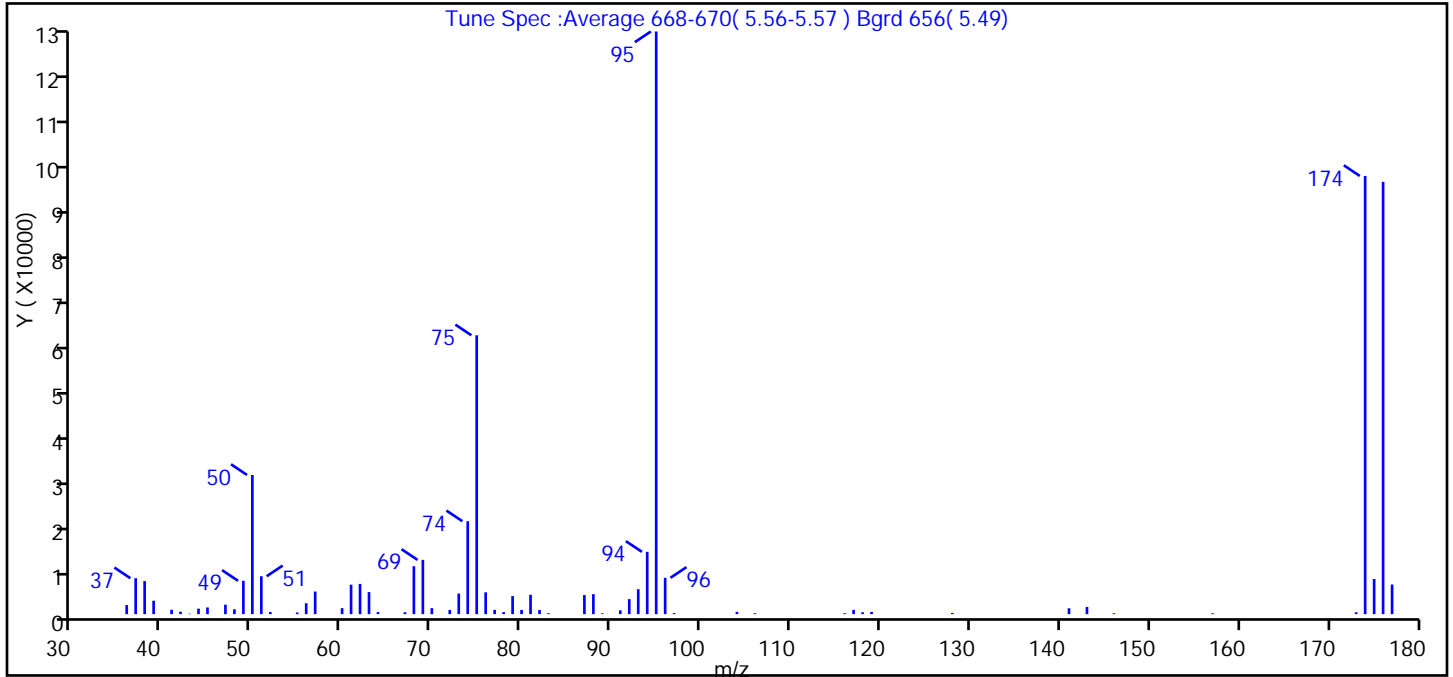
Reagents:

BFB_WRK_00066 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2457.D
 Injection Date: 01-Dec-2017 14:21:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: RR ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.9
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	75.2
175	5 to 9% of m/z 174	6.0 (8.0)
176	Greater than 95% but less than 101% of m/z 174	74.2 (98.7)
177	5 to 9% of m/z 176	5.1 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2457.D\T-8260.rsl\spectra.d
 Injection Date: 01-Dec-2017 14:21:30
 Spectrum: Tune Spec :Average 668-670(5.56-5.57) Bgrd 656(5.49)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1916	57.00	4751	79.00	3790	116.00	185
37.00	7563	60.00	1265	80.00	875	117.00	908
38.00	6955	61.00	6196	81.00	4081	118.00	394
39.00	2828	62.00	6359	82.00	882	119.00	463
41.00	930	63.00	4641	83.00	185	128.00	268
42.00	515	64.00	434	87.00	4012	141.00	1236
43.00	95	67.00	406	88.00	4206	143.00	1534
44.00	1161	68.00	10084	89.00	168	146.00	184
45.00	1407	69.00	11418	91.00	798	157.00	187
47.00	1992	70.00	1263	92.00	3157	173.00	387
48.00	1026	72.00	887	93.00	5251	174.00	92192
49.00	7013	73.00	4333	94.00	13115	175.00	7400
50.00	29288	74.00	19552	95.00	122592	176.00	90960
51.00	7973	75.00	58672	96.00	7649	177.00	6237
52.00	441	76.00	4594	97.00	219		
55.00	345	77.00	903	104.00	482		
56.00	2291	78.00	432	106.00	187		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3678.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 05-Jan-2018 17:19:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068385-002
 Operator ID: kn Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 08:18:55 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler Date: 08-Jan-2018 08:18:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.577	5.577	0.000	90	344059	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

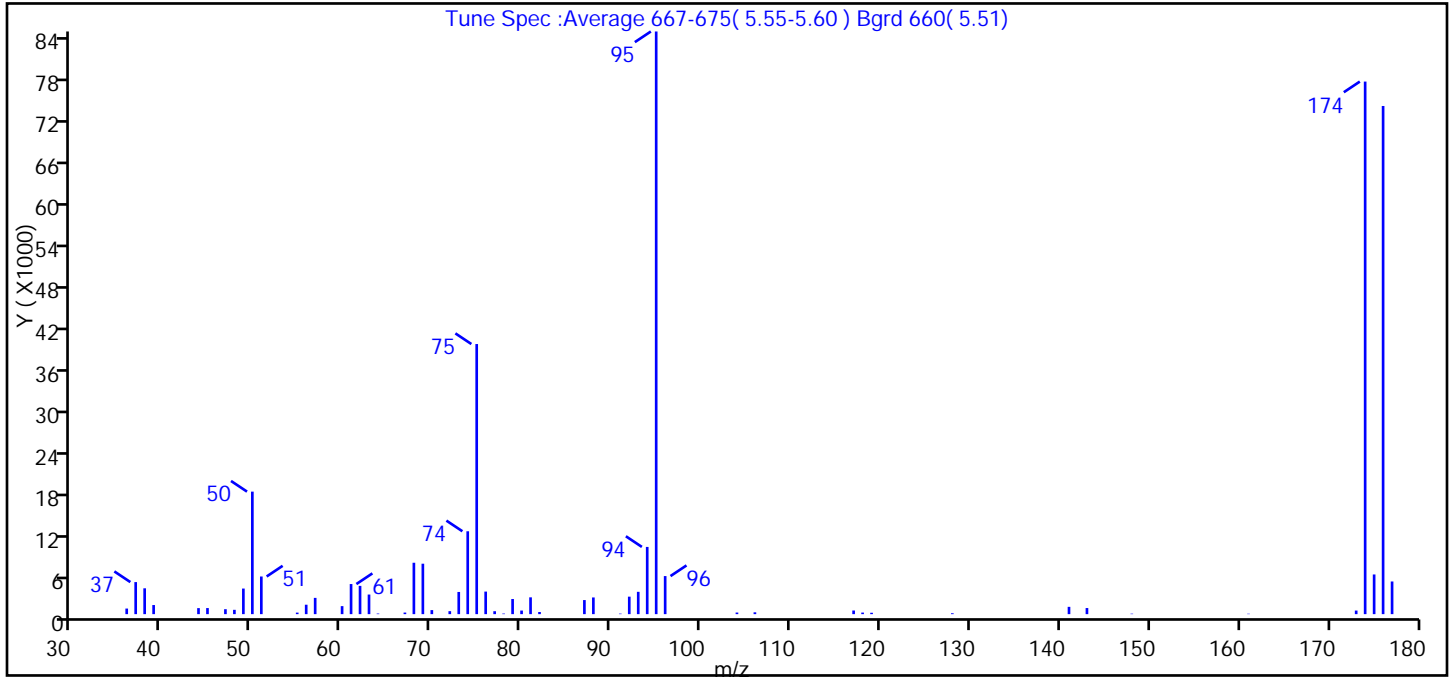
Reagents:

BFB_WRK_00066 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3678.D
 Injection Date: 05-Jan-2018 17:19:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: kn ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.0
75	30 to 60% of m/z 95	46.4
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	91.4
175	5 to 9% of m/z 174	6.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	87.2 (95.4)
177	5 to 9% of m/z 176	5.6 (6.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3678.D\T-8260.rslt\spectra.d
Injection Date: 05-Jan-2018 17:19:30
Spectrum: Tune Spec :Average 667-675(5.55-5.60) Bgrd 660(5.51)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	807	61.00	4350	79.00	2186	118.00	228
37.00	4632	62.00	4085	80.00	519	119.00	201
38.00	3734	63.00	2832	81.00	2429	128.00	127
39.00	1316	64.00	87	82.00	310	141.00	1055
44.00	870	67.00	229	87.00	2033	143.00	882
45.00	879	68.00	7427	88.00	2412	148.00	67
47.00	714	69.00	7289	91.00	75	161.00	58
48.00	624	70.00	585	92.00	2527	173.00	517
49.00	3698	72.00	431	93.00	3225	174.00	76960
50.00	17704	73.00	3206	94.00	9714	175.00	5734
51.00	5441	74.00	11976	95.00	84200	176.00	73432
55.00	223	75.00	39032	96.00	5501	177.00	4720
56.00	1362	76.00	3260	104.00	233		
57.00	2350	77.00	423	106.00	264		
60.00	1158	78.00	85	117.00	526		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394701/7
 Matrix: Water Lab File ID: T3683.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 19:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394701/7
 Matrix: Water Lab File ID: T3683.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 19:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394701/7
 Matrix: Water Lab File ID: T3683.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 19:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3683.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Jan-2018 19:49:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0068385-007
 Operator ID: kn Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 08:43:09 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 08-Jan-2018 08:43:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	110008	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	88	444281	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	267908	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	93	138459	25.0	24.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	186075	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	94	489149	25.0	22.2	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.102	0.001	91	189188	25.0	25.7	
11 Dichlorodifluoromethane	85		1.232					ND	
12 Chlorodifluoromethane	51		1.252					ND	
13 Chloromethane	50		1.398					ND	
151 Butadiene	54		1.481					ND	
14 Vinyl chloride	62		1.481					ND	
15 Bromomethane	94		1.771					ND	
16 Chloroethane	64		1.843					ND	
17 Trichlorofluoromethane	101		2.051					ND	
18 Dichlorofluoromethane	67		2.051					ND	
19 Ethyl ether	59		2.289					ND	
148 Ethanol	45		2.330					ND	
84 Propene oxide	58		2.392					ND	
21 Acrolein	56		2.476					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.507					ND	
22 1,1-Dichloroethene	96		2.507					ND	
23 Acetone	43		2.621					ND	
24 Iodomethane	142		2.652					ND	
25 Carbon disulfide	76		2.683					ND	
26 Isopropyl alcohol	45		2.797					ND	
27 3-Chloro-1-propene	41		2.849					ND	
28 Methyl acetate	43		2.890					ND	
29 Acetonitrile	40		2.921					ND	
31 2-Methyl-2-propanol	59		3.128					ND	
33 Methyl tert-butyl ether	73		3.170					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 trans-1,2-Dichloroethene	96		3.180					ND	
34 Acrylonitrile	53		3.232					ND	
35 Hexane	57		3.346					ND	
36 1,1-Dichloroethane	63		3.543					ND	
37 Isopropyl ether	45		3.553					ND	
39 Vinyl acetate	43		3.584					ND	
38 2-Chloro-1,3-butadiene	53		3.595					ND	
139 Halothane	117		3.595					ND	
40 1,1-Dimethoxyethane	75		3.615					ND	
41 Tert-butyl ethyl ether	59		3.843					ND	
42 2,2-Dichloropropane	77		3.989					ND	
43 cis-1,2-Dichloroethene	96		4.020					ND	
44 2-Butanone (MEK)	43		4.040					ND	
45 Ethyl acetate	43		4.061					ND	
46 Propionitrile	54		4.144					ND	
48 Tetrahydrofuran	42		4.217					ND	
47 Chlorobromomethane	128		4.217					ND	
49 Methacrylonitrile	41		4.227					ND	
50 Chloroform	83		4.279					ND	
51 1,1,1-Trichloroethane	97		4.372					ND	
52 Cyclohexane	56		4.372					ND	
53 Carbon tetrachloride	117		4.476					ND	
54 1,1-Dichloropropene	75		4.486					ND	
152 Isooctane	57		4.641					ND	
55 Benzene	78		4.652					ND	
56 Isobutyl alcohol	43		4.662					ND	
147 t-Amyl alcohol	59		4.714					ND	
58 Tert-amyl methyl ether	73		4.714					ND	
57 1,2-Dichloroethane	62		4.714					ND	
59 n-Heptane	43		4.786					ND	
1 1,4-Difluorobenzene	114		4.952					ND	
141 2,4,4-Trimethyl-1-pentene	55		5.045					ND	
60 Trichloroethene	95		5.139					ND	
61 n-Butanol	56		5.159					ND	
142 Ethyl acrylate	55		5.221					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.232					ND	
62 Methylcyclohexane	83		5.232					ND	
63 1,2-Dichloropropane	63		5.325					ND	
64 Methyl methacrylate	41		5.398					ND	
65 Dibromomethane	93		5.439					ND	
66 1,4-Dioxane	88		5.439					ND	
67 Dichlorobromomethane	83		5.553					ND	
68 2-Nitropropane	43		5.750					ND	
69 2-Chloroethyl vinyl ether	63		5.761					ND	
70 Epichlorohydrin	57		5.843					ND	
71 cis-1,3-Dichloropropene	75		5.875					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.978					ND	
73 Toluene	92		6.092					ND	
74 2-Methylthiophene	97		6.206					ND	
75 trans-1,3-Dichloropropene	75		6.310					ND	
76 3-Methylthiophene	97		6.330					ND	
77 Ethyl methacrylate	69		6.331					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 1,1,2-Trichloroethane	83		6.455					ND	
79 Tetrachloroethene	166		6.496					ND	
80 1,3-Dichloropropane	76		6.579					ND	
81 2-Hexanone	43		6.610					ND	
155 n-Butyl acetate	43		6.683					ND	
82 Chlorodibromomethane	129		6.755					ND	
83 Ethylene Dibromide	107		6.838					ND	
146 1-Chlorohexane	55		7.139					ND	
85 3-Chlorobenzotrifluoride	180		7.149					ND	
86 Chlorobenzene	112		7.191					ND	
87 4-Chlorobenzotrifluoride	180		7.201					ND	
88 Ethylbenzene	91		7.253					ND	
89 1,1,1,2-Tetrachloroethane	131		7.263					ND	
90 m-Xylene & p-Xylene	106		7.336					ND	
91 o-Xylene	106		7.667					ND	
92 Styrene	104		7.688					ND	
94 2-Chlorobenzotrifluoride	180		7.885					ND	
93 Bromoform	173		7.885					ND	
95 Isopropylbenzene	105		7.947					ND	
97 Bromobenzene	156		8.227					ND	
98 1,1,2,2-Tetrachloroethane	83		8.258					ND	
99 N-Propylbenzene	91		8.279					ND	
101 trans-1,4-Dichloro-2-buten	53		8.289					ND	
100 1,2,3-Trichloropropane	110		8.289					ND	
105 2-Chlorotoluene	126		8.362					ND	
103 3-Chlorotoluene	126		8.413					ND	
104 1,3,5-Trimethylbenzene	105		8.414					ND	
102 4-Chlorotoluene	91		8.455					ND	
106 tert-Butylbenzene	134		8.673					ND	
107 1,2,4-Trimethylbenzene	105		8.724					ND	
108 Pentachloroethane	167		8.735					ND	
109 sec-Butylbenzene	105		8.849					ND	
111 4-Isopropyltoluene	119		8.973					ND	
110 1,3-Dichlorobenzene	146		8.984					ND	
112 Dicyclopentadiene	66		9.035					ND	
113 1,4-Dichlorobenzene	146		9.056					ND	
114 1,2,3-Trimethylbenzene	105		9.077					ND	
150 Benzyl chloride	126		9.180					ND	
115 n-Butylbenzene	91		9.305					ND	
116 1,2-Dichlorobenzene	146		9.367					ND	
117 1,2-Dibromo-3-Chloropropan	75		10.041					ND	
118 1,3,5-Trichlorobenzene	180		10.165					ND	
119 1,2,4-Trichlorobenzene	180		10.693					ND	
120 Hexachlorobutadiene	225		10.787					ND	
121 Naphthalene	128		10.901					ND	
122 1,2,3-Trichlorobenzene	180		11.098					ND	
149 2-Methylnaphthalene	142		11.771					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Hexachloroethane	117		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		1.500					ND	
T 131 tert-amyl alcohol TIC	1		0.000					ND	
T 132 bis(chloromethyl)ether TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 133 Pentachloroethane TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 134 1-Bromopropane	1		0.000					ND	

Reagents:

T_8260_IS_00183	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3683.D

Injection Date: 05-Jan-2018 19:49:30

Instrument ID: HP5975T

Operator ID: kn

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

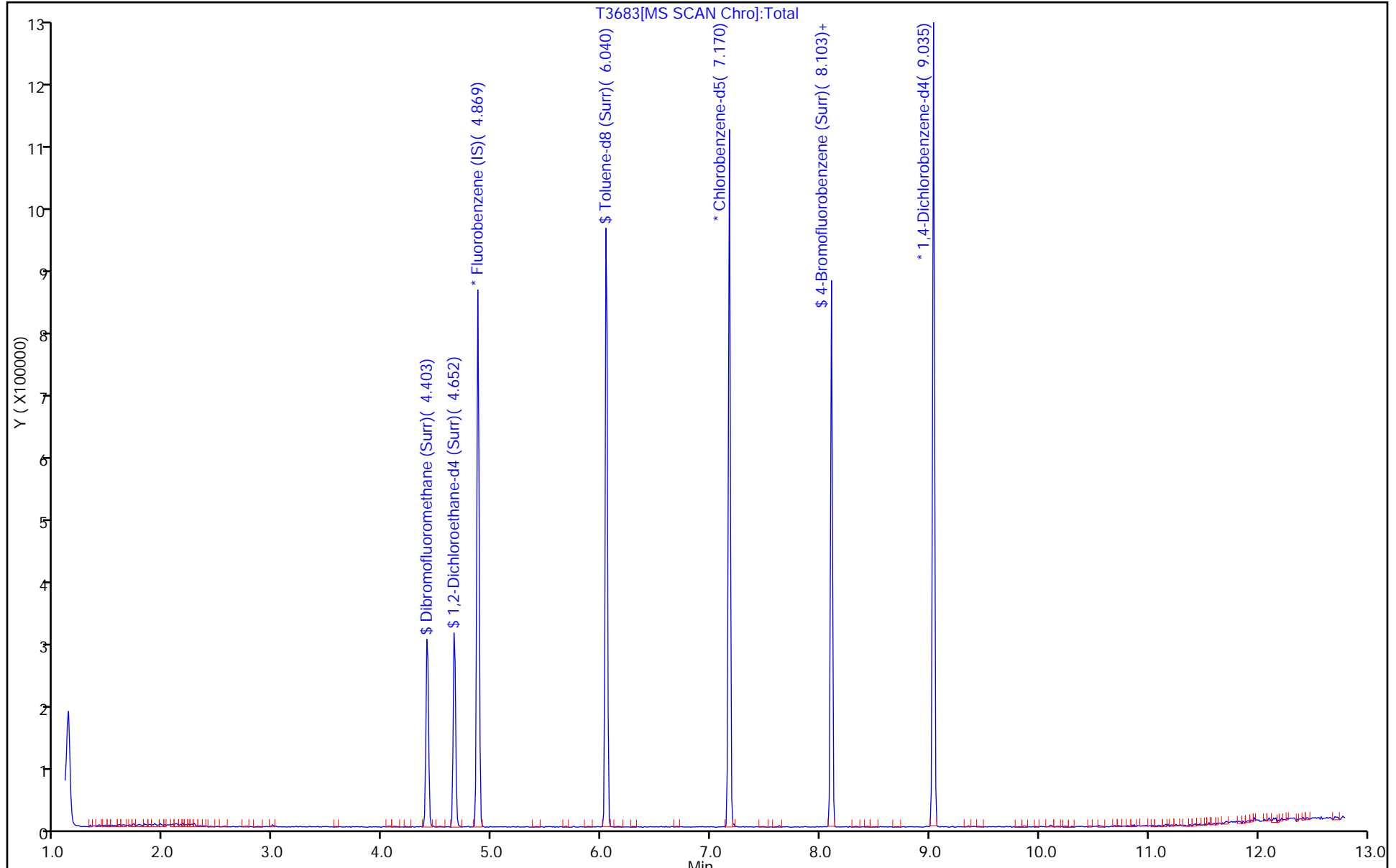
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394763/6
 Matrix: Water Lab File ID: N6100.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/07/2018 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394763/6
 Matrix: Water Lab File ID: N6100.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/07/2018 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394763/6
 Matrix: Water Lab File ID: N6100.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/07/2018 19:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6100.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 07-Jan-2018 19:12:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0068396-006
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:25:06 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: sonkera

Date: 07-Jan-2018 19:37:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	173961	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	89	696305	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	361439	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	231571	25.0	25.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	307560	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	836923	25.0	24.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.641	0.000	94	290889	25.0	24.7	
11 Dichlorodifluoromethane	85		1.336					ND	
12 Chlorodifluoromethane	51		1.361					ND	
13 Chloromethane	50		1.513					ND	
14 Vinyl chloride	62		1.598					ND	
144 Butadiene	54		1.622					ND	
15 Bromomethane	94		1.902					ND	
16 Chloroethane	64		1.999					ND	
18 Trichlorofluoromethane	101		2.200					ND	
17 Dichlorofluoromethane	67		2.200					ND	
141 Ethanol	45		2.468					ND	
19 Ethyl ether	59		2.480					ND	
81 Propene oxide	58		2.553					ND	
20 Acrolein	56		2.632					ND	
22 1,1-Dichloroethene	96		2.687					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.736					ND	
23 Acetone	43		2.784					ND	
24 Iodomethane	142		2.833					ND	
26 Isopropyl alcohol	45		2.967					ND	
27 3-Chloro-1-propene	41		3.046					ND	
29 Acetonitrile	40		3.070					ND	
28 Methyl acetate	43		3.082					ND	
31 2-Methyl-2-propanol	59		3.332					ND	
32 Methyl tert-butyl ether	73		3.405					ND	
33 trans-1,2-Dichloroethene	96		3.417					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 Acrylonitrile	53		3.435					ND	
35 Hexane	57		3.630					ND	
36 1,1-Dichloroethane	63		3.812					ND	
37 Isopropyl ether	45		3.855					ND	
38 2-Chloro-1,3-butadiene	53		3.885					ND	
40 1,1-Dimethoxyethane	75		3.916					ND	
41 Tert-butyl ethyl ether	59		4.184					ND	
42 2,2-Dichloropropane	77		4.335					ND	
43 cis-1,2-Dichloroethene	96		4.360					ND	
46 Propionitrile	54		4.463					ND	
47 Chlorobromomethane	128		4.585					ND	
48 Methacrylonitrile	67		4.585					ND	
49 Tetrahydrofuran	42		4.615					ND	
50 Chloroform	83		4.664					ND	
51 1,1,1-Trichloroethane	97		4.798					ND	
52 Cyclohexane	56		4.822					ND	
53 Carbon tetrachloride	117		4.938					ND	
54 1,1-Dichloropropene	75		4.944					ND	
56 Isobutyl alcohol	43		5.132					ND	
55 Benzene	78		5.145					ND	
146 Isooctane	57		5.169					ND	
57 1,2-Dichloroethane	62		5.193					ND	
140 t-Amyl alcohol	59		5.199					ND	
58 Tert-amyl methyl ether	73		5.230					ND	
59 n-Heptane	43		5.351					ND	
1 1,4-Difluorobenzene	114		5.516					ND	
60 Trichloroethene	95		5.753					ND	
61 n-Butanol	56		5.753					ND	
145 Ethyl acrylate	55		5.869					ND	
62 Methylcyclohexane	83		5.893					ND	
63 1,2-Dichloropropane	63		5.978					ND	
65 Methyl methacrylate	41		6.082					ND	
64 Dibromomethane	93		6.106					ND	
66 1,4-Dioxane	88		6.124					ND	
67 Dichlorobromomethane	83		6.258					ND	
68 2-Nitropropane	43		6.489					ND	
69 2-Chloroethyl vinyl ether	63		6.544					ND	
70 Epichlorohydrin	57		6.617					ND	
71 cis-1,3-Dichloropropene	75		6.684					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824					ND	
73 Toluene	92		6.982					ND	
74 2-Methylthiophene	97		7.110					ND	
75 trans-1,3-Dichloropropene	75		7.243					ND	
76 3-Methylthiophene	97		7.274					ND	
77 Ethyl methacrylate	69		7.304					ND	
78 1,1,2-Trichloroethane	83		7.426					ND	
79 Tetrachloroethene	166		7.523					ND	
80 1,3-Dichloropropane	76		7.590					ND	
82 2-Hexanone	43		7.663					ND	
149 n-Butyl acetate	43		7.785					ND	
83 Chlorodibromomethane	129		7.827					ND	
84 Ethylene Dibromide	107		7.931					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55		8.381					ND	
86 3-Chlorobenzotrifluoride	180		8.399					ND	
85 Chlorobenzene	112		8.418					ND	
87 4-Chlorobenzotrifluoride	180		8.454					ND	
89 1,1,1,2-Tetrachloroethane	131		8.515					ND	
88 Ethylbenzene	91		8.521					ND	
90 m-Xylene & p-Xylene	106		8.643					ND	
91 o-Xylene	106		9.069					ND	
92 Styrene	104		9.093					ND	
93 Bromoform	173		9.324					ND	
94 2-Chlorobenzotrifluoride	180		9.367					ND	
95 Isopropylbenzene	105		9.458					ND	
96 Cyclohexanone	55		9.598					ND	
97 Bromobenzene	156		9.792					ND	
98 1,1,2,2-Tetrachloroethane	83		9.829					ND	
99 1,2,3-Trichloropropane	110		9.865					ND	
101 trans-1,4-Dichloro-2-buten	53		9.884					ND	
100 N-Propylbenzene	91		9.890					ND	
102 2-Chlorotoluene	126		9.981					ND	
103 3-Chlorotoluene	126		10.048					ND	
104 1,3,5-Trimethylbenzene	105		10.066					ND	
105 4-Chlorotoluene	91		10.091					ND	
106 tert-Butylbenzene	134		10.389					ND	
107 Pentachloroethane	167		10.431					ND	
108 1,2,4-Trimethylbenzene	105		10.437					ND	
109 sec-Butylbenzene	105		10.595					ND	
110 1,3-Dichlorobenzene	146		10.723					ND	
111 4-Isopropyltoluene	119		10.742					ND	
112 Dicyclopentadiene	66		10.802					ND	
113 1,4-Dichlorobenzene	146		10.808					ND	
114 1,2,3-Trimethylbenzene	105		10.845					ND	
143 Benzyl chloride	126		10.948					ND	
115 n-Butylbenzene	91		11.125					ND	
116 1,2-Dichlorobenzene	146		11.161					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.885					ND	
118 1,3,5-Trichlorobenzene	180		12.037					ND	
119 1,2,4-Trichlorobenzene	180		12.573					ND	
120 Hexachlorobutadiene	225		12.700					ND	
121 Naphthalene	128		12.779					ND	
122 1,2,3-Trichlorobenzene	180		12.986					ND	
142 2-Methylnaphthalene	142		13.704					ND	
133 Halothane	1		0.000					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 130 Propene oxide TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6100.D

Injection Date: 07-Jan-2018 19:12:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

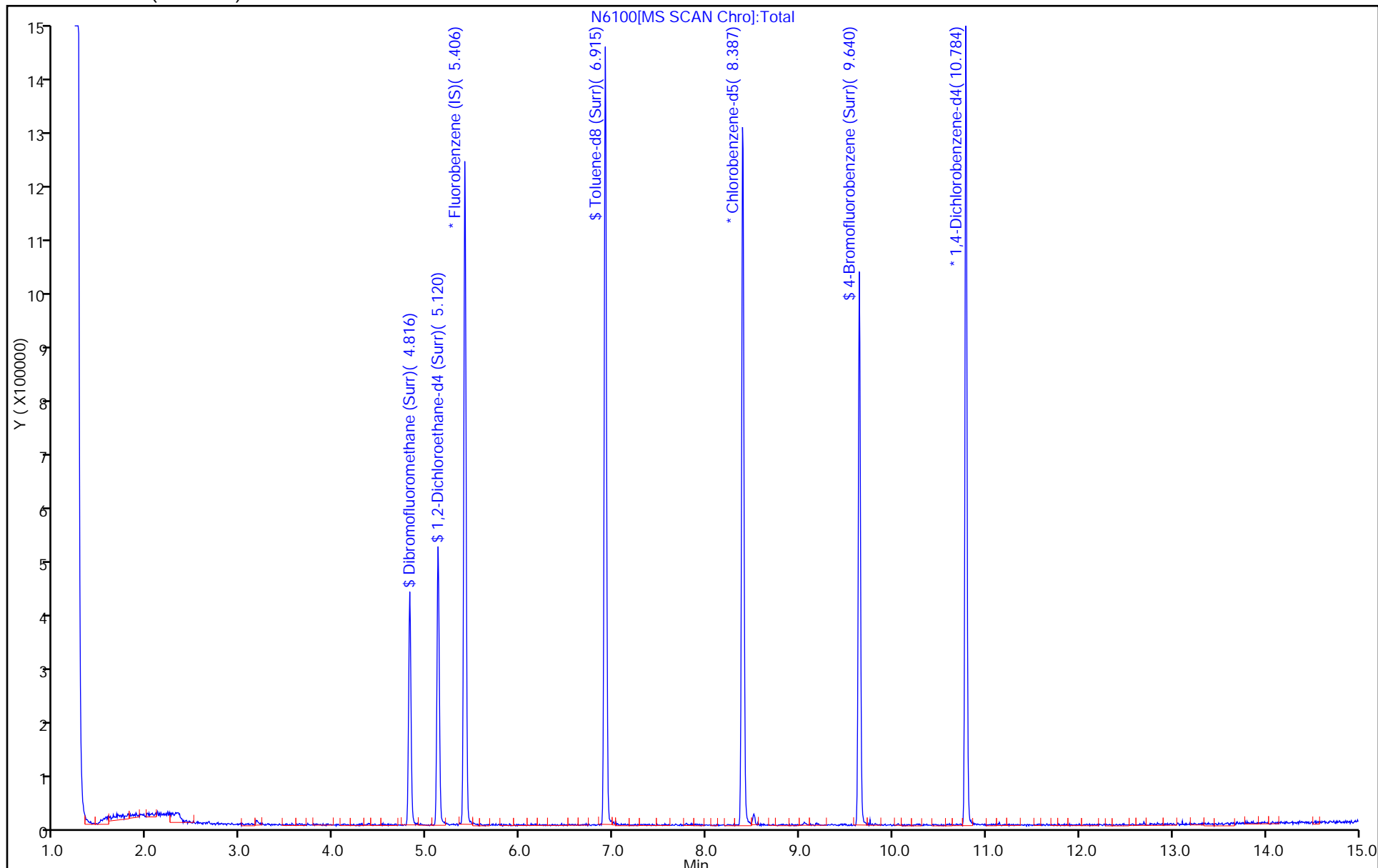
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394793/7
 Matrix: Water Lab File ID: N6127.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 11:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394793/7
 Matrix: Water Lab File ID: N6127.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 11:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-394793/7
 Matrix: Water Lab File ID: N6127.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 11:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6127.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Jan-2018 11:14:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0068404-007
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 16:42:40 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: sonkera

Date: 08-Jan-2018 16:44:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	177975	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	707862	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	368540	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	234952	25.0	25.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	319240	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	868527	25.0	24.5	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	94	302100	25.0	25.2	
11 Dichlorodifluoromethane	85		1.336					ND	
12 Chlorodifluoromethane	51		1.361					ND	
13 Chloromethane	50		1.507					ND	
14 Vinyl chloride	62		1.598					ND	
144 Butadiene	54		1.628					ND	
15 Bromomethane	94		1.902					ND	
16 Chloroethane	64		1.993					ND	
18 Trichlorofluoromethane	101		2.200					ND	
17 Dichlorofluoromethane	67		2.200					ND	
141 Ethanol	45		2.468					ND	
19 Ethyl ether	59		2.480					ND	
81 Propene oxide	58		2.553					ND	
20 Acrolein	56		2.632					ND	
22 1,1-Dichloroethene	96		2.687					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.723					ND	
23 Acetone	43		2.784					ND	
24 Iodomethane	142		2.833					ND	
26 Isopropyl alcohol	45		2.961					ND	
27 3-Chloro-1-propene	41		3.040					ND	
29 Acetonitrile	40		3.070					ND	
28 Methyl acetate	43		3.082					ND	
31 2-Methyl-2-propanol	59		3.332					ND	
32 Methyl tert-butyl ether	73		3.405					ND	
33 trans-1,2-Dichloroethene	96		3.411					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 Acrylonitrile	53		3.435					ND	
36 1,1-Dichloroethane	63		3.818					ND	
37 Isopropyl ether	45		3.849					ND	
38 2-Chloro-1,3-butadiene	53		3.885					ND	
40 1,1-Dimethoxyethane	75		3.916					ND	
41 Tert-butyl ethyl ether	59		4.183					ND	
42 2,2-Dichloropropane	77		4.336					ND	
43 cis-1,2-Dichloroethene	96		4.360					ND	
44 2-Butanone (MEK)	43		4.384					ND	
45 Ethyl acetate	43		4.433					ND	
46 Propionitrile	54		4.463					ND	
48 Methacrylonitrile	67		4.585					ND	
47 Chlorobromomethane	128		4.591					ND	
49 Tetrahydrofuran	42		4.615					ND	
50 Chloroform	83		4.664					ND	
51 1,1,1-Trichloroethane	97		4.792					ND	
52 Cyclohexane	56		4.822					ND	
53 Carbon tetrachloride	117		4.938					ND	
54 1,1-Dichloropropene	75		4.944					ND	
56 Isobutyl alcohol	43		5.133					ND	
55 Benzene	78		5.145					ND	
146 Isooctane	57		5.169					ND	
140 t-Amyl alcohol	59		5.193					ND	
57 1,2-Dichloroethane	62		5.193					ND	
58 Tert-amyl methyl ether	73		5.230					ND	
59 n-Heptane	43		5.352					ND	
1 1,4-Difluorobenzene	114		5.516					ND	
61 n-Butanol	56		5.753					ND	
60 Trichloroethene	95		5.753					ND	
145 Ethyl acrylate	55		5.868					ND	
62 Methylcyclohexane	83		5.893					ND	
63 1,2-Dichloropropane	63		5.978					ND	
65 Methyl methacrylate	41		6.081					ND	
64 Dibromomethane	93		6.106					ND	
66 1,4-Dioxane	88		6.124					ND	
67 Dichlorobromomethane	83		6.258					ND	
68 2-Nitropropane	43		6.489					ND	
69 2-Chloroethyl vinyl ether	63		6.544					ND	
70 Epichlorohydrin	57		6.617					ND	
71 cis-1,3-Dichloropropene	75		6.684					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824					ND	
73 Toluene	92		6.982					ND	
74 2-Methylthiophene	97		7.116					ND	
75 trans-1,3-Dichloropropene	75		7.244					ND	
76 3-Methylthiophene	97		7.274					ND	
77 Ethyl methacrylate	69		7.304					ND	
78 1,1,2-Trichloroethane	83		7.426					ND	
79 Tetrachloroethene	166		7.523					ND	
80 1,3-Dichloropropane	76		7.590					ND	
82 2-Hexanone	43		7.663					ND	
149 n-Butyl acetate	43		7.785					ND	
83 Chlorodibromomethane	129		7.828					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
84 Ethylene Dibromide	107		7.931					ND	
139 1-Chlorohexane	55		8.381					ND	
86 3-Chlorobenzotrifluoride	180		8.399					ND	
85 Chlorobenzene	112		8.418					ND	
87 4-Chlorobenzotrifluoride	180		8.454					ND	
89 1,1,1,2-Tetrachloroethane	131		8.515					ND	
88 Ethylbenzene	91		8.521					ND	
90 m-Xylene & p-Xylene	106		8.643					ND	
91 o-Xylene	106		9.069					ND	
92 Styrene	104		9.093					ND	
93 Bromoform	173		9.324					ND	
94 2-Chlorobenzotrifluoride	180		9.373					ND	
95 Isopropylbenzene	105		9.458					ND	
96 Cyclohexanone	55		9.598					ND	
97 Bromobenzene	156		9.793					ND	
98 1,1,2,2-Tetrachloroethane	83		9.829					ND	
99 1,2,3-Trichloropropane	110		9.866					ND	
101 trans-1,4-Dichloro-2-buten	53		9.878					ND	
100 N-Propylbenzene	91		9.884					ND	
102 2-Chlorotoluene	126		9.987					ND	
103 3-Chlorotoluene	126		10.048					ND	
104 1,3,5-Trimethylbenzene	105		10.066					ND	
105 4-Chlorotoluene	91		10.097					ND	
106 tert-Butylbenzene	134		10.389					ND	
107 Pentachloroethane	167		10.431					ND	
108 1,2,4-Trimethylbenzene	105		10.437					ND	
109 sec-Butylbenzene	105		10.596					ND	
110 1,3-Dichlorobenzene	146		10.723					ND	
111 4-Isopropyltoluene	119		10.742					ND	
112 Dicyclopentadiene	66		10.802					ND	
113 1,4-Dichlorobenzene	146		10.808					ND	
114 1,2,3-Trimethylbenzene	105		10.845					ND	
143 Benzyl chloride	126		10.948					ND	
115 n-Butylbenzene	91		11.125					ND	
116 1,2-Dichlorobenzene	146		11.161					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879					ND	
118 1,3,5-Trichlorobenzene	180		12.037					ND	
119 1,2,4-Trichlorobenzene	180		12.573					ND	
120 Hexachlorobutadiene	225		12.694					ND	
121 Naphthalene	128		12.786					ND	
122 1,2,3-Trichlorobenzene	180		12.986					ND	
142 2-Methylnaphthalene	142		13.704					ND	
138 1-Bromopropane	1		0.000					ND	
133 Halothane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 10 Ethylene oxide	1		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	

Reagents:

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6127.D

Injection Date: 08-Jan-2018 11:14:30

Instrument ID: HP5973N

Operator ID: AM/MS/RF

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

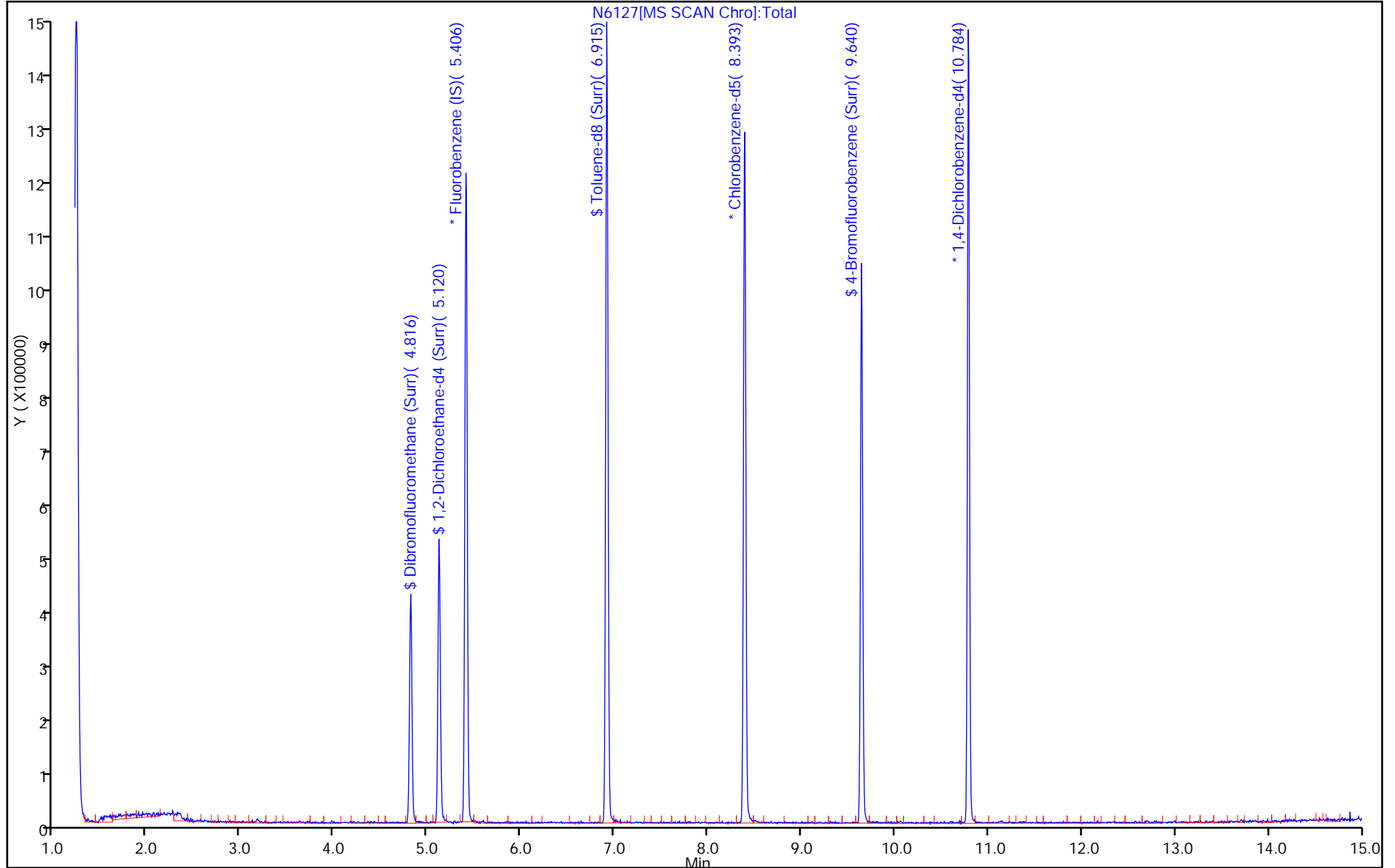
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-394701/5
 Matrix: Water Lab File ID: T3681.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 18:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.8		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.1		1.0	0.31
75-34-3	1,1-Dichloroethane	25.1		1.0	0.38
75-35-4	1,1-Dichloroethene	27.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	26.9		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.8		1.0	0.79
107-06-2	1,2-Dichloroethane	26.2		1.0	0.21
78-87-5	1,2-Dichloropropane	24.3		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.6		1.0	0.84
78-93-3	2-Butanone (MEK)	116		10	1.3
591-78-6	2-Hexanone	101		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	105		5.0	2.1
67-64-1	Acetone	120		10	3.0
71-43-2	Benzene	26.0		1.0	0.41
75-27-4	Bromodichloromethane	28.0		1.0	0.39
75-25-2	Bromoform	28.5		1.0	0.26
74-83-9	Bromomethane	27.6		1.0	0.69
75-15-0	Carbon disulfide	25.7		1.0	0.19
56-23-5	Carbon tetrachloride	32.1		1.0	0.27
108-90-7	Chlorobenzene	25.3		1.0	0.75
124-48-1	Dibromochloromethane	27.9		1.0	0.32
75-00-3	Chloroethane	24.6		1.0	0.32
67-66-3	Chloroform	27.8		1.0	0.34
74-87-3	Chloromethane	21.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.1		1.0	0.36
110-82-7	Cyclohexane	23.6		1.0	0.18
75-71-8	Dichlorodifluoromethane	27.6		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
106-93-4	1,2-Dibromoethane	26.0		1.0	0.73
98-82-8	Isopropylbenzene	24.0		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-394701/5
 Matrix: Water Lab File ID: T3681.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 18:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	46.4		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.8		1.0	0.16
108-87-2	Methylcyclohexane	27.0		1.0	0.16
75-09-2	Methylene Chloride	25.0		1.0	0.44
100-42-5	Styrene	25.2		1.0	0.73
127-18-4	Tetrachloroethene	29.9		1.0	0.36
108-88-3	Toluene	25.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.6		1.0	0.37
79-01-6	Trichloroethene	28.6		1.0	0.46
75-69-4	Trichlorofluoromethane	28.2		1.0	0.88
75-01-4	Vinyl chloride	22.7		1.0	0.90
1330-20-7	Xylenes, Total	51.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3681.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Jan-2018 18:47:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0068385-005
 Operator ID: kn Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 08:37:31 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 08-Jan-2018 08:37:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	107650	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	88	433439	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	272150	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.413	4.403	0.010	96	147922	25.0	26.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.652	0.010	0	183906	25.0	24.8	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	509020	25.0	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.102	0.001	90	197667	25.0	27.5	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	99	191553	25.0	27.6	
13 Chloromethane	50	1.418	1.398	0.020	99	214992	25.0	21.9	
151 Butadiene	54	1.501	1.481	0.020	95	178087	25.0	21.5	
14 Vinyl chloride	62	1.491	1.481	0.010	97	172139	25.0	22.7	
15 Bromomethane	94	1.791	1.771	0.020	94	121958	25.0	27.6	
16 Chloroethane	64	1.854	1.843	0.011	97	96420	25.0	24.6	
17 Trichlorofluoromethane	101	2.071	2.051	0.020	72	288475	25.0	28.2	
18 Dichlorofluoromethane	67	2.061	2.051	0.010	95	250968	25.0	24.7	
19 Ethyl ether	59	2.310	2.289	0.021	96	125608	25.0	23.4	
21 Acrolein	56	2.486	2.476	0.010	99	137274	125.0	158.4	
20 1,1,2-Trichloro-1,2,2-trif	101	2.538	2.507	0.031	80	145087	25.0	30.1	
22 1,1-Dichloroethene	96	2.517	2.507	0.010	93	129851	25.0	27.9	
23 Acetone	43	2.631	2.621	0.010	97	247292	125.0	120.2	
24 Iodomethane	142	2.672	2.652	0.020	97	286547	25.0	30.8	
25 Carbon disulfide	76	2.703	2.683	0.020	98	396176	25.0	25.7	
27 3-Chloro-1-propene	41	2.859	2.849	0.010	84	273387	25.0	21.0	
28 Methyl acetate	43	2.900	2.890	0.010	100	223357	50.0	46.4	
30 Methylene Chloride	84	2.994	2.983	0.011	96	143004	25.0	25.0	
31 2-Methyl-2-propanol	59	3.149	3.128	0.021	98	173431	250.0	344.0	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	99	443209	25.0	26.8	
32 trans-1,2-Dichloroethene	96	3.190	3.180	0.010	94	150949	25.0	28.9	
34 Acrylonitrile	53	3.242	3.232	0.010	96	570743	250.0	242.9	
35 Hexane	57	3.346	3.346	0.000	93	241827	25.0	22.6	
36 1,1-Dichloroethane	63	3.553	3.543	0.010	98	281245	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.595	3.584	0.011	97	713701	50.0	46.6	
42 2,2-Dichloropropane	77	3.999	3.989	0.010	92	260673	25.0	27.2	
43 cis-1,2-Dichloroethene	96	4.019	4.020	-0.001	86	168953	25.0	27.9	
44 2-Butanone (MEK)	43	4.051	4.040	0.011	98	342028	125.0	115.6	
48 Tetrahydrofuran	42	4.227	4.217	0.011	97	83699	50.0	41.0	
47 Chlorobromomethane	128	4.216	4.217	0.000	97	93379	25.0	30.0	
50 Chloroform	83	4.279	4.279	0.000	95	307623	25.0	27.8	
51 1,1,1-Trichloroethane	97	4.372	4.372	0.000	97	298806	25.0	29.9	
52 Cyclohexane	56	4.382	4.372	0.010	95	304732	25.0	23.6	
53 Carbon tetrachloride	117	4.486	4.476	0.010	96	279005	25.0	32.1	
54 1,1-Dichloropropene	75	4.486	4.486	0.000	89	207548	25.0	27.8	
55 Benzene	78	4.662	4.652	0.010	93	516320	25.0	26.0	
56 Isobutyl alcohol	43	4.672	4.662	0.010	92	164472	625.0	710.3	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	96	277110	25.0	26.2	
59 n-Heptane	43	4.786	4.786	0.000	93	275395	25.0	21.8	
60 Trichloroethene	95	5.139	5.139	0.000	93	171722	25.0	28.6	
62 Methylcyclohexane	83	5.232	5.232	0.000	97	251303	25.0	27.0	
63 1,2-Dichloropropane	63	5.336	5.325	0.011	84	145629	25.0	24.3	
65 Dibromomethane	93	5.439	5.439	0.000	88	96629	25.0	26.7	
66 1,4-Dioxane	88	5.439	5.439	0.000	38	24996	500.0	863.4	
67 Dichlorobromomethane	83	5.553	5.553	0.000	97	229935	25.0	28.0	
69 2-Chloroethyl vinyl ether	63	5.760	5.761	-0.001	91	89748	25.0	22.4	
71 cis-1,3-Dichloropropene	75	5.874	5.875	-0.001	89	238432	25.0	27.1	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	98	753901	125.0	105.3	
73 Toluene	92	6.092	6.092	0.000	98	363504	25.0	25.9	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	98	232503	25.0	24.6	
77 Ethyl methacrylate	69	6.330	6.331	-0.001	94	156700	25.0	21.2	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	94	102279	25.0	24.8	
79 Tetrachloroethene	166	6.496	6.496	0.000	97	204181	25.0	29.9	
80 1,3-Dichloropropane	76	6.579	6.579	0.000	97	207712	25.0	23.2	
81 2-Hexanone	43	6.621	6.610	0.011	97	510674	125.0	100.7	
82 Chlorodibromomethane	129	6.755	6.755	0.000	89	188096	25.0	27.9	
83 Ethylene Dibromide	107	6.838	6.838	0.000	99	146248	25.0	26.0	
86 Chlorobenzene	112	7.191	7.191	0.000	93	440107	25.0	25.3	
88 Ethylbenzene	91	7.253	7.253	0.000	99	729318	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	7.263	7.263	0.000	92	191296	25.0	26.7	
90 m-Xylene & p-Xylene	106	7.346	7.336	0.010	0	282699	25.0	25.3	
91 o-Xylene	106	7.667	7.667	0.000	97	288101	25.0	26.0	
92 Styrene	104	7.688	7.688	0.000	94	474809	25.0	25.2	
93 Bromoform	173	7.885	7.885	0.000	97	122161	25.0	28.5	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	773847	25.0	24.0	
97 Bromobenzene	156	8.227	8.227	0.000	87	214962	25.0	25.1	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	96	153256	25.0	21.6	
99 N-Propylbenzene	91	8.279	8.279	0.000	98	868582	25.0	23.1	
101 trans-1,4-Dichloro-2-buten	53	8.299	8.289	0.010	77	73911	25.0	22.0	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.000	89	59587	25.0	24.1	
105 2-Chlorotoluene	126	8.362	8.362	0.000	96	192651	25.0	25.0	
104 1,3,5-Trimethylbenzene	105	8.413	8.414	-0.001	97	669106	25.0	23.4	
102 4-Chlorotoluene	91	8.455	8.455	0.000	98	564882	25.0	23.1	
106 tert-Butylbenzene	134	8.672	8.673	-0.001	92	161822	25.0	25.2	
107 1,2,4-Trimethylbenzene	105	8.724	8.724	0.000	97	708250	25.0	23.5	
109 sec-Butylbenzene	105	8.849	8.849	0.000	95	827050	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	8.973	8.973	0.000	97	826007	25.0	25.5	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	98	419102	25.0	25.5	
113 1,4-Dichlorobenzene	146	9.056	9.056	0.000	94	424706	25.0	25.6	
115 n-Butylbenzene	91	9.305	9.305	0.000	97	649256	25.0	23.9	
116 1,2-Dichlorobenzene	146	9.367	9.367	0.000	98	407755	25.0	25.8	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.041	-0.001	85	38642	25.0	26.9	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	95	330942	25.0	25.6	
120 Hexachlorobutadiene	225	10.787	10.787	0.000	97	181053	25.0	27.5	
121 Naphthalene	128	10.901	10.901	0.000	97	664628	25.0	25.0	
122 1,2,3-Trichlorobenzene	180	11.097	11.098	-0.001	95	311996	25.0	24.8	

Reagents:

8260 CORP mix_00117	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
T_8260_IS_00183	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3681.D

Injection Date: 05-Jan-2018 18:47:30

Instrument ID: HP5975T

Operator ID: kn

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

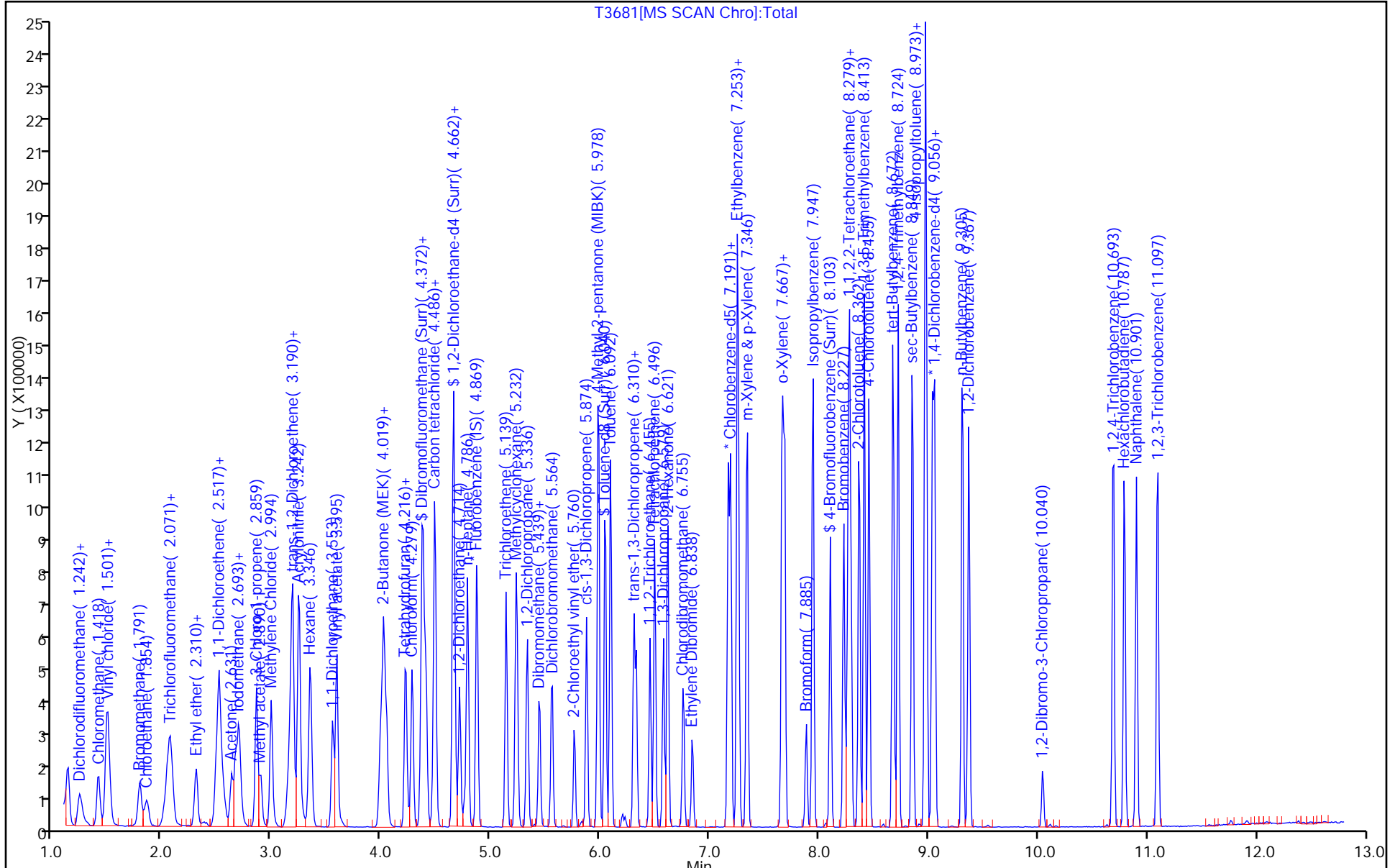
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-394763/4
 Matrix: Water Lab File ID: N6098.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/07/2018 18:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.2		1.0	0.31
75-34-3	1,1-Dichloroethane	25.3		1.0	0.38
75-35-4	1,1-Dichloroethene	25.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	25.6		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.0		1.0	0.79
107-06-2	1,2-Dichloroethane	25.4		1.0	0.21
78-87-5	1,2-Dichloropropane	27.0		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.4		1.0	0.84
78-93-3	2-Butanone (MEK)	149		10	1.3
591-78-6	2-Hexanone	131		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	137		5.0	2.1
67-64-1	Acetone	190		10	3.0
71-43-2	Benzene	26.6		1.0	0.41
75-27-4	Bromodichloromethane	27.1		1.0	0.39
75-25-2	Bromoform	27.8		1.0	0.26
74-83-9	Bromomethane	24.6		1.0	0.69
75-15-0	Carbon disulfide	24.6		1.0	0.19
56-23-5	Carbon tetrachloride	28.1		1.0	0.27
108-90-7	Chlorobenzene	25.4		1.0	0.75
124-48-1	Dibromochloromethane	27.8		1.0	0.32
75-00-3	Chloroethane	23.5		1.0	0.32
67-66-3	Chloroform	25.1		1.0	0.34
74-87-3	Chloromethane	20.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.5		1.0	0.36
110-82-7	Cyclohexane	24.7		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.9		1.0	0.68
100-41-4	Ethylbenzene	25.0		1.0	0.74
106-93-4	1,2-Dibromoethane	26.6		1.0	0.73
98-82-8	Isopropylbenzene	25.8		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-394763/4
 Matrix: Water Lab File ID: N6098.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/07/2018 18:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	56.2		2.5	1.3
1634-04-4	Methyl tert-butyl ether	27.1		1.0	0.16
108-87-2	Methylcyclohexane	27.0		1.0	0.16
75-09-2	Methylene Chloride	25.0		1.0	0.44
100-42-5	Styrene	26.0		1.0	0.73
127-18-4	Tetrachloroethene	26.8		1.0	0.36
108-88-3	Toluene	25.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.5		1.0	0.37
79-01-6	Trichloroethene	26.7		1.0	0.46
75-69-4	Trichlorofluoromethane	24.0		1.0	0.88
75-01-4	Vinyl chloride	23.2		1.0	0.90
1330-20-7	Xylenes, Total	49.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6098.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-Jan-2018 18:18:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0068396-004
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:25:06 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: sonkera

Date: 07-Jan-2018 19:06:34

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	182998	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	88	741868	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	94	401709	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	237766	25.0	25.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	320846	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	899129	25.0	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.641	0.000	92	313722	25.0	25.0	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	99	201817	25.0	22.9	
13 Chloromethane	50	1.507	1.513	-0.006	100	424693	25.0	20.8	
14 Vinyl chloride	62	1.592	1.598	-0.006	98	314388	25.0	23.2	
144 Butadiene	54	1.616	1.622	-0.006	93	338258	25.0	21.6	
15 Bromomethane	94	1.896	1.902	-0.006	89	172364	25.0	24.6	
16 Chloroethane	64	1.993	1.999	-0.006	95	186483	25.0	23.5	
18 Trichlorofluoromethane	101	2.194	2.200	-0.006	74	331689	25.0	24.0	
17 Dichlorofluoromethane	67	2.200	2.200	0.000	96	389291	25.0	21.4	
19 Ethyl ether	59	2.480	2.480	0.000	96	311795	25.0	25.8	
20 Acrolein	56	2.632	2.632	0.000	99	424212	125.0	135.4	
22 1,1-Dichloroethene	96	2.681	2.687	-0.006	92	181222	25.0	25.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.723	2.736	-0.013	92	185156	25.0	27.2	
23 Acetone	43	2.784	2.784	0.000	97	781354	125.0	189.6	
24 Iodomethane	142	2.833	2.833	0.000	98	381909	25.0	26.4	
25 Carbon disulfide	76	2.875	2.882	-0.007	99	610034	25.0	24.6	
27 3-Chloro-1-propene	41	3.040	3.046	-0.006	86	624584	25.0	24.6	
28 Methyl acetate	43	3.082	3.082	0.000	100	848915	50.0	56.2	
30 Methylene Chloride	84	3.173	3.174	-0.001	90	231978	25.0	25.0	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	98	371714	250.0	406.3	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	96	805191	25.0	27.1	
33 trans-1,2-Dichloroethene	96	3.411	3.417	-0.006	91	225417	25.0	26.3	
34 Acrylonitrile	53	3.429	3.435	-0.006	99	2001263	250.0	280.2	
35 Hexane	57	3.624	3.630	-0.006	96	475994	25.0	26.4	
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	490344	25.0	25.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.867	3.867	0.000	96	2165346	50.0	56.3	
42 2,2-Dichloropropane	77	4.335	4.335	0.000	87	313838	25.0	25.9	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	259497	25.0	26.1	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1311899	125.0	148.6	
47 Chlorobromomethane	128	4.585	4.585	0.000	88	144378	25.0	27.9	
49 Tetrahydrofuran	42	4.615	4.615	0.000	93	347954	50.0	56.2	
50 Chloroform	83	4.664	4.664	0.000	96	407890	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.792	4.798	-0.006	97	360417	25.0	26.8	
52 Cyclohexane	56	4.816	4.822	-0.006	98	523357	25.0	24.7	
53 Carbon tetrachloride	117	4.938	4.938	0.000	95	322628	25.0	28.1	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	86	307611	25.0	26.8	
56 Isobutyl alcohol	43	5.132	5.132	0.000	95	657880	625.0	954.4	
55 Benzene	78	5.138	5.145	-0.007	94	918963	25.0	26.6	
57 1,2-Dichloroethane	62	5.187	5.193	-0.006	96	437004	25.0	25.4	
59 n-Heptane	43	5.351	5.351	0.000	97	588575	25.0	27.0	
60 Trichloroethene	95	5.753	5.753	0.000	94	245488	25.0	26.7	
62 Methylcyclohexane	83	5.887	5.893	-0.006	95	399745	25.0	27.0	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	90	289644	25.0	27.0	
64 Dibromomethane	93	6.106	6.106	0.000	93	168754	25.0	27.7	
66 1,4-Dioxane	88	6.124	6.124	0.000	98	64523	500.0	738.8	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	96	331276	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	86	231789	25.0	30.1	
71 cis-1,3-Dichloropropene	75	6.678	6.684	-0.006	85	394132	25.0	28.5	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	945685	125.0	137.3	
73 Toluene	92	6.982	6.982	0.000	97	615936	25.0	25.2	
75 trans-1,3-Dichloropropene	75	7.237	7.243	-0.006	91	372735	25.0	26.5	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	372718	25.0	28.5	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	191813	25.0	26.1	
79 Tetrachloroethene	166	7.523	7.523	0.000	97	285373	25.0	26.8	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	91	395548	25.0	26.9	
82 2-Hexanone	43	7.657	7.663	-0.006	98	1945415	125.0	131.1	
83 Chlorodibromomethane	129	7.827	7.827	0.000	90	286218	25.0	27.8	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	252904	25.0	26.6	
85 Chlorobenzene	112	8.417	8.418	-0.001	94	721503	25.0	25.4	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	93	271002	25.0	25.9	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1160108	25.0	25.0	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	458098	25.0	25.0	
91 o-Xylene	106	9.068	9.069	-0.001	98	456484	25.0	24.9	
92 Styrene	104	9.093	9.093	0.000	94	787436	25.0	26.0	
93 Bromoform	173	9.324	9.324	0.000	96	205160	25.0	27.8	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1222447	25.0	25.8	
97 Bromobenzene	156	9.792	9.792	0.000	87	331113	25.0	26.6	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	97	341286	25.0	25.9	
99 1,2,3-Trichloropropane	110	9.859	9.865	-0.006	93	107117	25.0	25.7	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.884	-0.006	81	158678	25.0	25.2	
100 N-Propylbenzene	91	9.884	9.890	-0.006	99	1381826	25.0	25.1	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	296483	25.0	25.5	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	999111	25.0	25.1	
105 4-Chlorotoluene	91	10.090	10.091	-0.001	98	964880	25.0	24.8	
106 tert-Butylbenzene	134	10.389	10.389	0.000	95	233771	25.0	25.8	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	1040174	25.0	25.2	
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	1282418	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	609186	25.0	25.9	
111 4-Isopropyltoluene	119	10.741	10.742	-0.001	98	1126539	25.0	25.8	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	95	620422	25.0	25.4	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	965753	25.0	25.9	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	598389	25.0	26.0	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.885	-0.006	82	64899	25.0	25.6	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	383833	25.0	26.3	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	97	175307	25.0	26.2	
121 Naphthalene	128	12.785	12.779	0.006	97	1135315	25.0	26.5	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	337861	25.0	26.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
N_8260_Surr_00311	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6098.D

Injection Date: 07-Jan-2018 18:18:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

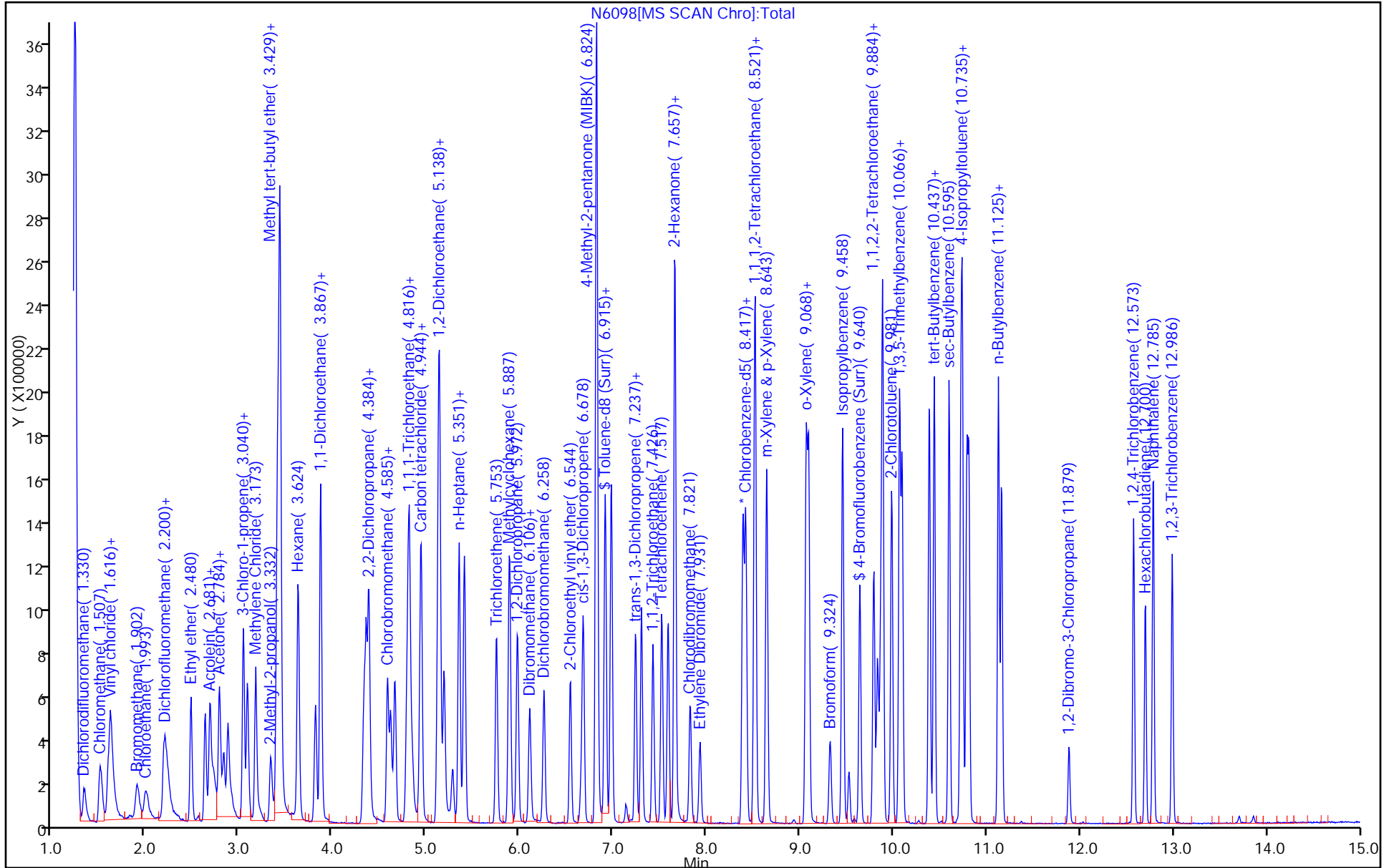
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-394793/5
 Matrix: Water Lab File ID: N6125.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 10:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.9		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.5		1.0	0.31
75-34-3	1,1-Dichloroethane	25.5		1.0	0.38
75-35-4	1,1-Dichloroethene	25.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.8		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.4		1.0	0.79
107-06-2	1,2-Dichloroethane	25.1		1.0	0.21
78-87-5	1,2-Dichloropropane	26.7		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.7		1.0	0.84
78-93-3	2-Butanone (MEK)	158		10	1.3
591-78-6	2-Hexanone	135		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	132		5.0	2.1
67-64-1	Acetone	236		10	3.0
71-43-2	Benzene	26.4		1.0	0.41
75-27-4	Bromodichloromethane	26.7		1.0	0.39
75-25-2	Bromoform	26.1		1.0	0.26
74-83-9	Bromomethane	26.2		1.0	0.69
75-15-0	Carbon disulfide	25.2		1.0	0.19
56-23-5	Carbon tetrachloride	29.0		1.0	0.27
108-90-7	Chlorobenzene	25.8		1.0	0.75
124-48-1	Dibromochloromethane	27.0		1.0	0.32
75-00-3	Chloroethane	25.6		1.0	0.32
67-66-3	Chloroform	24.9		1.0	0.34
74-87-3	Chloromethane	22.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.9		1.0	0.36
110-82-7	Cyclohexane	27.4		1.0	0.18
75-71-8	Dichlorodifluoromethane	27.7		1.0	0.68
100-41-4	Ethylbenzene	26.3		1.0	0.74
106-93-4	1,2-Dibromoethane	26.1		1.0	0.73
98-82-8	Isopropylbenzene	26.7		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-394793/5
 Matrix: Water Lab File ID: N6125.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 10:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	52.0		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.8		1.0	0.16
108-87-2	Methylcyclohexane	28.7		1.0	0.16
75-09-2	Methylene Chloride	21.7		1.0	0.44
100-42-5	Styrene	26.8		1.0	0.73
127-18-4	Tetrachloroethene	28.2		1.0	0.36
108-88-3	Toluene	25.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.3		1.0	0.37
79-01-6	Trichloroethene	27.2		1.0	0.46
75-69-4	Trichlorofluoromethane	28.1		1.0	0.88
75-01-4	Vinyl chloride	26.1		1.0	0.90
1330-20-7	Xylenes, Total	51.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6125.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Jan-2018 10:20:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0068404-005
 Operator ID: AM/MS/RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 16:41:51 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: sonkera

Date: 08-Jan-2018 16:41:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	180621	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	726069	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	94	387684	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	240420	25.0	25.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	319430	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	892995	25.0	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	92	318615	25.0	25.9	
11 Dichlorodifluoromethane	85	1.342	1.336	0.006	98	241586	25.0	27.7	
13 Chloromethane	50	1.513	1.507	0.006	99	455911	25.0	22.6	
14 Vinyl chloride	62	1.598	1.598	0.000	98	348527	25.0	26.1	
144 Butadiene	54	1.622	1.628	-0.006	96	382980	25.0	24.8	
15 Bromomethane	94	1.908	1.902	0.006	91	181053	25.0	26.2	
16 Chloroethane	64	1.999	1.993	0.006	96	200630	25.0	25.6	
18 Trichlorofluoromethane	101	2.200	2.200	0.000	76	382760	25.0	28.1	
17 Dichlorofluoromethane	67	2.206	2.200	0.006	96	419675	25.0	23.4	
19 Ethyl ether	59	2.486	2.480	0.006	97	305352	25.0	25.6	
20 Acrolein	56	2.632	2.632	0.000	99	421461	125.0	136.3	
22 1,1-Dichloroethene	96	2.687	2.687	0.000	92	178715	25.0	25.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.723	-0.006	91	184760	25.0	27.5	
23 Acetone	43	2.784	2.784	0.000	98	960496	125.0	236.2	
24 Iodomethane	142	2.839	2.833	0.006	99	380033	25.0	26.6	
25 Carbon disulfide	76	2.881	2.882	-0.001	98	616134	25.0	25.2	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	86	627416	25.0	25.0	
28 Methyl acetate	43	3.082	3.082	0.000	99	776375	50.0	52.0	
30 Methylene Chloride	84	3.180	3.174	0.006	90	200347	25.0	21.7	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	97	442568	250.0	490.2	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	95	757190	25.0	25.8	
33 trans-1,2-Dichloroethene	96	3.417	3.411	0.006	91	224305	25.0	26.6	
34 Acrylonitrile	53	3.435	3.435	0.000	99	1934247	250.0	274.3	
35 Hexane	57	3.630	3.630	0.000	96	485181	25.0	27.3	
36 1,1-Dichloroethane	63	3.812	3.818	-0.006	97	488719	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.867	3.867	0.000	96	2033860	50.0	53.6	
42 2,2-Dichloropropane	77	4.335	4.336	-0.001	87	317682	25.0	26.6	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	254169	25.0	25.9	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1375888	125.0	157.9	
47 Chlorobromomethane	128	4.591	4.591	0.000	88	134290	25.0	26.3	
49 Tetrahydrofuran	42	4.615	4.615	0.000	93	336175	50.0	55.0	
50 Chloroform	83	4.664	4.664	0.000	96	399417	25.0	24.9	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	97	359512	25.0	27.1	
52 Cyclohexane	56	4.816	4.822	-0.006	97	572446	25.0	27.4	
53 Carbon tetrachloride	117	4.938	4.938	0.000	96	329269	25.0	29.0	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	87	309568	25.0	27.3	
56 Isobutyl alcohol	43	5.132	5.133	-0.001	95	627435	625.0	922.2	
55 Benzene	78	5.145	5.145	0.000	95	903267	25.0	26.4	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	96	426146	25.0	25.1	
59 n-Heptane	43	5.351	5.352	-0.001	96	611015	25.0	28.4	
60 Trichloroethene	95	5.753	5.753	0.000	93	246407	25.0	27.2	
62 Methylcyclohexane	83	5.893	5.893	0.000	95	419906	25.0	28.7	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	89	283487	25.0	26.7	
64 Dibromomethane	93	6.106	6.106	0.000	91	160487	25.0	26.7	
66 1,4-Dioxane	88	6.118	6.118	-0.006	91	53761	500.0	630.8	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	96	322654	25.0	26.7	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	88	223741	25.0	29.4	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	85	381491	25.0	27.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	892220	125.0	132.3	
73 Toluene	92	6.982	6.982	0.000	97	618323	25.0	25.9	
75 trans-1,3-Dichloropropene	75	7.243	7.244	-0.001	94	361166	25.0	26.3	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	343947	25.0	26.9	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	186350	25.0	25.9	
79 Tetrachloroethene	166	7.523	7.523	0.000	97	293390	25.0	28.2	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	90	371771	25.0	25.9	
82 2-Hexanone	43	7.663	7.663	0.000	99	1956798	125.0	134.7	
83 Chlorodibromomethane	129	7.827	7.828	-0.001	89	271734	25.0	27.0	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	243467	25.0	26.1	
85 Chlorobenzene	112	8.418	8.418	0.000	94	717499	25.0	25.8	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	94	269606	25.0	26.3	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1192658	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	465566	25.0	26.0	
91 o-Xylene	106	9.068	9.069	-0.001	97	464218	25.0	25.9	
92 Styrene	104	9.093	9.093	0.000	96	791799	25.0	26.8	
93 Bromoform	173	9.324	9.324	0.000	96	188701	25.0	26.1	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1221389	25.0	26.7	
97 Bromobenzene	156	9.792	9.793	-0.001	86	315810	25.0	26.3	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	93	321981	25.0	25.3	
99 1,2,3-Trichloropropane	110	9.865	9.866	-0.001	92	105331	25.0	26.2	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	76	144306	25.0	23.8	
100 N-Propylbenzene	91	9.890	9.884	0.006	99	1369498	25.0	25.8	
102 2-Chlorotoluene	126	9.981	9.987	-0.006	96	291279	25.0	25.9	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	987520	25.0	25.8	
105 4-Chlorotoluene	91	10.097	10.097	0.000	97	943593	25.0	25.1	
106 tert-Butylbenzene	134	10.389	10.389	0.000	95	227989	25.0	26.1	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	1012707	25.0	25.4	
109 sec-Butylbenzene	105	10.595	10.596	-0.001	94	1281930	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	618634	25.0	27.2	
111 4-Isopropyltoluene	119	10.741	10.742	-0.001	98	1091570	25.0	25.9	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	604632	25.0	25.7	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	959954	25.0	26.6	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	586477	25.0	26.4	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	81	58180	25.0	23.8	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	365866	25.0	26.0	
120 Hexachlorobutadiene	225	12.700	12.694	0.006	97	173322	25.0	26.8	
121 Naphthalene	128	12.779	12.786	-0.007	97	1009586	25.0	24.4	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	95	316697	25.0	25.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
N_8260_Surr_00311	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180108-68404.b\N6125.D

Injection Date: 08-Jan-2018 10:20:30

Instrument ID: HP5973N

Operator ID: AM/MS/RF

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

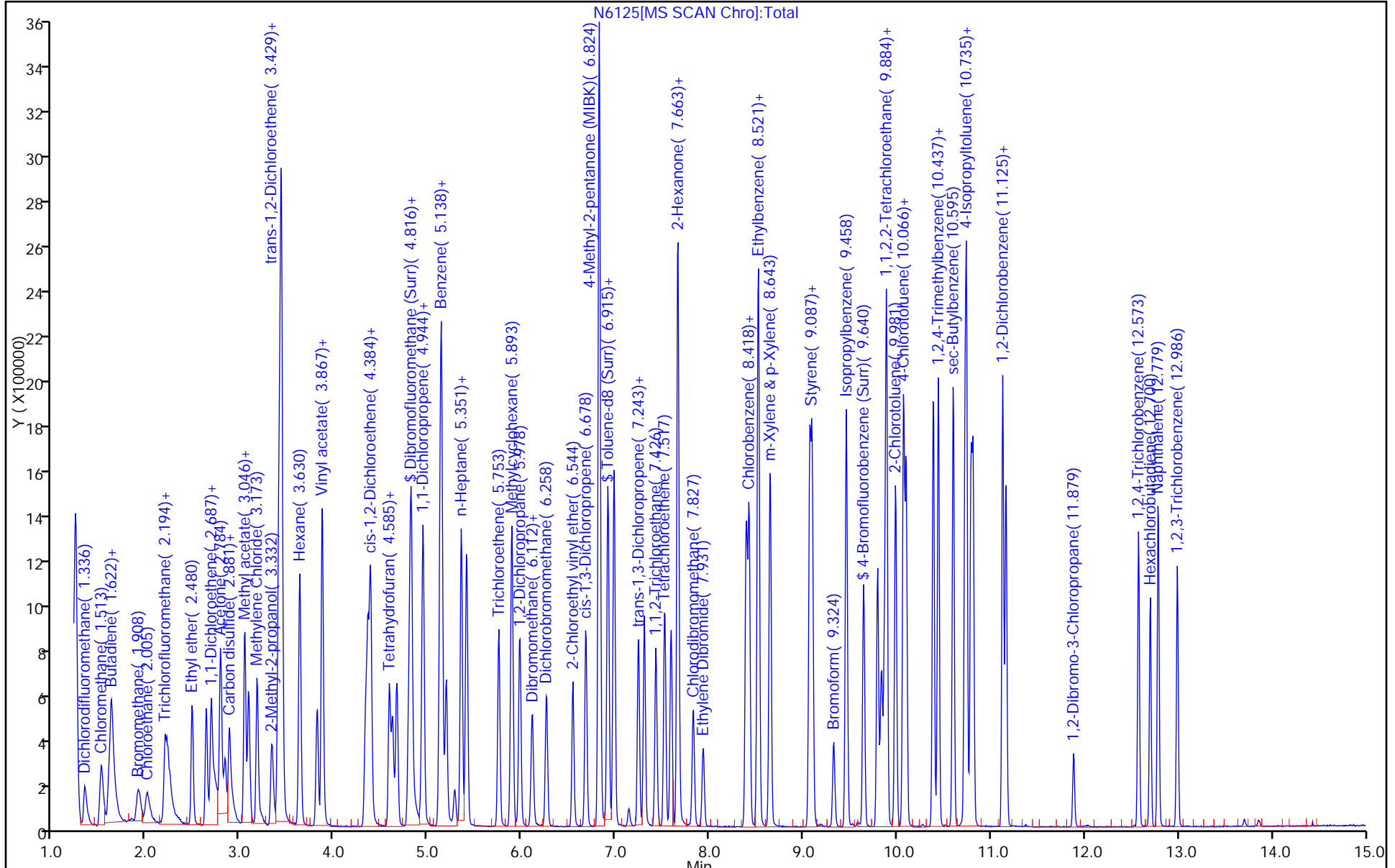
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MS Lab Sample ID: 480-129748-1 MS
 Matrix: Water Lab File ID: N6119.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:58
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2730		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2550		100	21
79-00-5	1,1,2-Trichloroethane	2570		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2870		100	31
75-34-3	1,1-Dichloroethane	2610		100	38
75-35-4	1,1-Dichloroethene	2720		100	29
120-82-1	1,2,4-Trichlorobenzene	2540		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	2470		100	39
95-50-1	1,2-Dichlorobenzene	2590		100	79
107-06-2	1,2-Dichloroethane	2470		100	21
78-87-5	1,2-Dichloropropane	2650		100	72
541-73-1	1,3-Dichlorobenzene	2610		100	78
106-46-7	1,4-Dichlorobenzene	2540		100	84
78-93-3	2-Butanone (MEK)	14500		1000	130
591-78-6	2-Hexanone	13100		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	13500		500	210
67-64-1	Acetone	17700		1000	300
71-43-2	Benzene	2680		100	41
75-27-4	Bromodichloromethane	2590		100	39
75-25-2	Bromoform	2560		100	26
74-83-9	Bromomethane	2680		100	69
75-15-0	Carbon disulfide	2560		100	19
56-23-5	Carbon tetrachloride	2920		100	27
108-90-7	Chlorobenzene	2640		100	75
124-48-1	Dibromochloromethane	2660		100	32
75-00-3	Chloroethane	2900		100	32
67-66-3	Chloroform	2540		100	34
74-87-3	Chloromethane	2400		100	35
156-59-2	cis-1,2-Dichloroethene	6280		100	81
10061-01-5	cis-1,3-Dichloropropene	2590		100	36
110-82-7	Cyclohexane	2620		100	18
75-71-8	Dichlorodifluoromethane	2690		100	68
100-41-4	Ethylbenzene	2620		100	74
106-93-4	1,2-Dibromoethane	2700		100	73
98-82-8	Isopropylbenzene	2660		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MS Lab Sample ID: 480-129748-1 MS
 Matrix: Water Lab File ID: N6119.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:58
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	5290		250	130
1634-04-4	Methyl tert-butyl ether	2580		100	16
108-87-2	Methylcyclohexane	2740		100	16
75-09-2	Methylene Chloride	2570		100	44
100-42-5	Styrene	2720		100	73
127-18-4	Tetrachloroethene	2780		100	36
108-88-3	Toluene	2690		100	51
156-60-5	trans-1,2-Dichloroethene	2710		100	90
10061-02-6	trans-1,3-Dichloropropene	2540		100	37
79-01-6	Trichloroethene	2650		100	46
75-69-4	Trichlorofluoromethane	2780		100	88
75-01-4	Vinyl chloride	4310		100	90
1330-20-7	Xylenes, Total	5270		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6119.D
 Lims ID: 480-129748-A-1 MS
 Client ID: LBA-SBW-15
 Sample Type: MS
 Inject. Date: 08-Jan-2018 03:58:30 ALS Bottle#: 25 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-129748-A-1 MS
 Misc. Info.: 480-0068396-030
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:50:06 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: scibiliam

Date: 08-Jan-2018 09:51:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	173274	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	688853	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	95	373949	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	90	223669	25.0	25.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	298470	25.0	24.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	853868	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.640	0.006	94	305682	25.0	26.2	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	224695	25.0	26.9	
13 Chloromethane	50	1.507	1.513	-0.007	99	464982	25.0	24.0	
14 Vinyl chloride	62	1.592	1.598	-0.006	98	552311	25.0	43.1	
15 Bromomethane	94	1.902	1.902	0.000	92	177447	25.0	26.8	
16 Chloroethane	64	1.999	1.999	0.000	96	218216	25.0	29.0	
18 Trichlorofluoromethane	101	2.200	2.200	0.000	72	363686	25.0	27.8	
22 1,1-Dichloroethene	96	2.687	2.687	0.000	90	185552	25.0	27.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.736	-0.025	71	184747	25.0	28.7	
23 Acetone	43	2.784	2.802	0.000	98	690288	125.0	176.9	
25 Carbon disulfide	76	2.881	2.882	-0.001	98	599202	25.0	25.6	
28 Methyl acetate	43	3.088	3.082	0.006	100	757023	50.0	52.9	
30 Methylene Chloride	84	3.173	3.174	-0.001	91	225854	25.0	25.7	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	95	726772	25.0	25.8	
33 trans-1,2-Dichloroethene	96	3.411	3.417	-0.006	91	219890	25.0	27.1	
36 1,1-Dichloroethane	63	3.812	3.812	0.000	98	480395	25.0	26.1	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	91	591493	25.0	62.8	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1211791	125.0	145.0	
50 Chloroform	83	4.664	4.664	0.000	96	392113	25.0	25.4	
51 1,1,1-Trichloroethane	97	4.792	4.798	-0.006	97	347124	25.0	27.3	
52 Cyclohexane	56	4.816	4.822	-0.006	95	525736	25.0	26.2	
53 Carbon tetrachloride	117	4.938	4.938	0.000	96	318121	25.0	29.2	
55 Benzene	78	5.144	5.145	-0.001	94	877594	25.0	26.8	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	95	402042	25.0	24.7	
60 Trichloroethene	95	5.753	5.765	0.000	93	230426	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.893	5.893	0.000	95	384485	25.0	27.4	
63 1,2-Dichloropropane	63	5.972	5.978	-0.006	89	269713	25.0	26.5	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	300678	25.0	25.9	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	84	339286	25.0	25.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	864976	125.0	135.2	
73 Toluene	92	6.982	6.982	0.000	97	610404	25.0	26.9	
75 trans-1,3-Dichloropropene	75	7.243	7.243	0.000	91	330966	25.0	25.4	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	95	175590	25.0	25.7	
79 Tetrachloroethene	166	7.523	7.523	0.000	97	274560	25.0	27.8	
82 2-Hexanone	43	7.657	7.663	-0.006	98	1806858	125.0	131.1	
83 Chlorodibromomethane	129	7.827	7.827	0.000	90	254357	25.0	26.6	
84 Ethylene Dibromide	107	7.931	7.931	0.000	96	238348	25.0	27.0	
85 Chlorobenzene	112	8.424	8.418	0.006	94	697076	25.0	26.4	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1127965	25.0	26.2	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	453775		26.7	
91 o-Xylene	106	9.068	9.069	-0.001	98	442479		26.0	
92 Styrene	104	9.093	9.093	0.000	95	765034	25.0	27.2	
93 Bromoform	173	9.324	9.324	0.000	97	175407	25.0	25.6	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1174982	25.0	26.6	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	95	312583	25.0	25.5	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	572612	25.0	26.1	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	576171	25.0	25.4	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	555486	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.885	-0.006	82	58269	25.0	24.7	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	344231	25.0	25.4	
S 126 Xylenes, Total	1				0			52.7	

Reagents:

8260 CORP mix_00118

Amount Added: 12.50

Units: uL

GAS CORP mix_00258

Amount Added: 12.50

Units: uL

N_8260_Surr_00311

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00101

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6119.D

Injection Date: 08-Jan-2018 03:58:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: 480-129748-A-1 MS

Worklist Smp#: 30

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

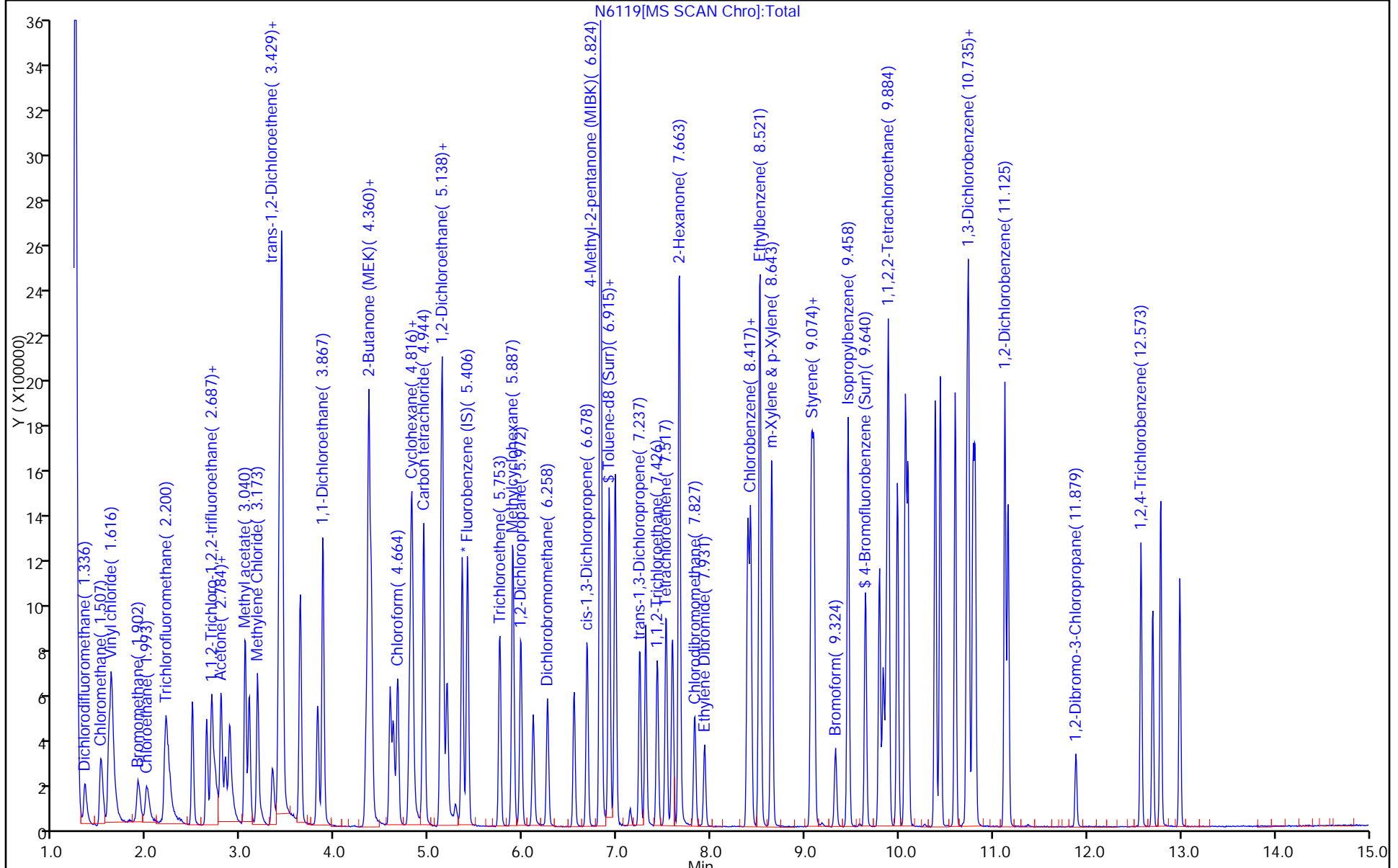
Dil. Factor: 100.0000

ALS Bottle#: 25

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S MS Lab Sample ID: 480-129748-4 MS
 Matrix: Water Lab File ID: T3700.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/06/2018 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	271		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	202		10	2.1
79-00-5	1,1,2-Trichloroethane	223		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	249		10	3.1
75-34-3	1,1-Dichloroethane	225		10	3.8
75-35-4	1,1-Dichloroethene	243		10	2.9
120-82-1	1,2,4-Trichlorobenzene	241		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	231		10	3.9
95-50-1	1,2-Dichlorobenzene	242		10	7.9
107-06-2	1,2-Dichloroethane	244		10	2.1
78-87-5	1,2-Dichloropropane	214		10	7.2
541-73-1	1,3-Dichlorobenzene	246		10	7.8
106-46-7	1,4-Dichlorobenzene	245		10	8.4
78-93-3	2-Butanone (MEK)	958		100	13
591-78-6	2-Hexanone	869		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	927		50	21
67-64-1	Acetone	982		100	30
71-43-2	Benzene	258		10	4.1
75-27-4	Bromodichloromethane	240		10	3.9
75-25-2	Bromoform	243		10	2.6
74-83-9	Bromomethane	270		10	6.9
75-15-0	Carbon disulfide	229		10	1.9
56-23-5	Carbon tetrachloride	276		10	2.7
108-90-7	Chlorobenzene	233		10	7.5
124-48-1	Dibromochloromethane	230		10	3.2
75-00-3	Chloroethane	243		10	3.2
67-66-3	Chloroform	246		10	3.4
74-87-3	Chloromethane	222		10	3.5
156-59-2	cis-1,2-Dichloroethene	719		10	8.1
10061-01-5	cis-1,3-Dichloropropene	230		10	3.6
110-82-7	Cyclohexane	212		10	1.8
75-71-8	Dichlorodifluoromethane	290		10	6.8
100-41-4	Ethylbenzene	234		10	7.4
106-93-4	1,2-Dibromoethane	231		10	7.3
98-82-8	Isopropylbenzene	268		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S MS Lab Sample ID: 480-129748-4 MS
 Matrix: Water Lab File ID: T3700.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/06/2018 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	385		25	13
1634-04-4	Methyl tert-butyl ether	270		10	1.6
108-87-2	Methylcyclohexane	239		10	1.6
75-09-2	Methylene Chloride	244		10	4.4
100-42-5	Styrene	225		10	7.3
127-18-4	Tetrachloroethene	276		10	3.6
108-88-3	Toluene	229		10	5.1
156-60-5	trans-1,2-Dichloroethene	258		10	9.0
10061-02-6	trans-1,3-Dichloropropene	212		10	3.7
79-01-6	Trichloroethene	249		10	4.6
75-69-4	Trichlorofluoromethane	299		10	8.8
75-01-4	Vinyl chloride	441		10	9.0
1330-20-7	Xylenes, Total	974		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3700.D
 Lims ID: 480-129748-K-4 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 06-Jan-2018 02:43:30 ALS Bottle#: 24 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-129748-F-4 MS
 Misc. Info.: 480-0068385-026
 Operator ID: kn Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:06:26 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 08-Jan-2018 09:06:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	111411	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	87	443598	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	94	261229	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	93	144393	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.662	4.652	0.010	0	191455	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	513384	25.0	23.3	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.102	0.001	93	196700	25.0	26.8	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	99	208827	25.0	29.0	
13 Chloromethane	50	1.408	1.398	0.010	99	225478	25.0	22.2	
14 Vinyl chloride	62	1.491	1.481	0.010	97	345370	25.0	44.1	
15 Bromomethane	94	1.781	1.771	0.010	94	123754	25.0	27.0	
16 Chloroethane	64	1.854	1.864	0.011	96	98598	25.0	24.3	
17 Trichlorofluoromethane	101	2.061	2.051	0.010	84	315986	25.0	29.9	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.020	89	124474	25.0	24.9	
22 1,1-Dichloroethene	96	2.517	2.538	0.010	94	117179	25.0	24.3	
23 Acetone	43	2.631	2.621	0.010	97	208985	125.0	98.2	M
25 Carbon disulfide	76	2.693	2.683	0.010	99	366456	25.0	22.9	
28 Methyl acetate	43	2.890	2.890	0.000	99	191503	50.0	38.5	
30 Methylene Chloride	84	2.994	3.004	0.011	95	144946	25.0	24.4	
33 Methyl tert-butyl ether	73	3.180	3.170	0.010	99	462403	25.0	27.0	
32 trans-1,2-Dichloroethene	96	3.190	3.191	0.010	94	139229	25.0	25.8	
36 1,1-Dichloroethane	63	3.553	3.553	0.010	97	260947	25.0	22.5	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	84	450720	25.0	71.9	
44 2-Butanone (MEK)	43	4.051	4.051	0.011	97	293359	125.0	95.8	
50 Chloroform	83	4.279	4.279	0.000	95	282123	25.0	24.6	
51 1,1,1-Trichloroethane	97	4.372	4.362	0.000	97	280230	25.0	27.1	
52 Cyclohexane	56	4.372	4.372	0.000	92	282644	25.0	21.2	
53 Carbon tetrachloride	117	4.486	4.476	0.010	95	247893	25.0	27.6	
55 Benzene	78	4.662	4.652	0.010	94	531757	25.0	25.8	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	98	266994	25.0	24.4	
60 Trichloroethene	95	5.139	5.139	0.000	93	155093	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.232	5.232	0.000	97	230285	25.0	23.9	
63 1,2-Dichloropropane	63	5.336	5.325	0.011	85	132698	25.0	21.4	
67 Dichlorobromomethane	83	5.553	5.553	0.000	97	203669	25.0	24.0	
71 cis-1,3-Dichloropropene	75	5.875	5.875	0.000	88	209596	25.0	23.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	98	679366	125.0	92.7	
73 Toluene	92	6.092	6.092	0.000	97	329335	25.0	22.9	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	92	205110	25.0	21.2	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	91	94483	25.0	22.3	
79 Tetrachloroethene	166	6.496	6.507	0.000	96	193158	25.0	27.6	
81 2-Hexanone	43	6.621	6.610	0.011	97	450893	125.0	86.9	
82 Chlorodibromomethane	129	6.755	6.755	0.000	92	158998	25.0	23.0	
83 Ethylene Dibromide	107	6.838	6.838	0.000	98	132990	25.0	23.1	
86 Chlorobenzene	112	7.191	7.191	0.000	93	415466	25.0	23.3	
88 Ethylbenzene	91	7.253	7.253	0.000	99	695473	25.0	23.4	
90 m-Xylene & p-Xylene	106	7.336	7.336	0.000	0	850400		74.3	
91 o-Xylene	106	7.667	7.667	0.000	98	261849		23.1	
92 Styrene	104	7.688	7.688	0.000	94	434133	25.0	22.5	
93 Bromoform	173	7.885	7.885	0.000	96	106482	25.0	24.3	
95 Isopropylbenzene	105	7.947	7.947	0.000	96	829597	25.0	26.8	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	96	137854	25.0	20.2	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	98	388477	25.0	24.6	
113 1,4-Dichlorobenzene	146	9.056	9.046	0.000	94	389988	25.0	24.5	
116 1,2-Dichlorobenzene	146	9.367	9.377	0.000	96	367291	25.0	24.2	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.041	-0.001	86	31826	25.0	23.1	
119 1,2,4-Trichlorobenzene	180	10.683	10.693	-0.010	95	298536	25.0	24.1	
S 126 Xylenes, Total	1				0			97.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00117	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
T_8260_IS_00183	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3700.D

Injection Date: 06-Jan-2018 02:43:30

Instrument ID: HP5975T

Operator ID: kn

Lims ID: 480-129748-K-4 MS

Worklist Smp#: 26

Client ID:

Purge Vol: 5.000 mL

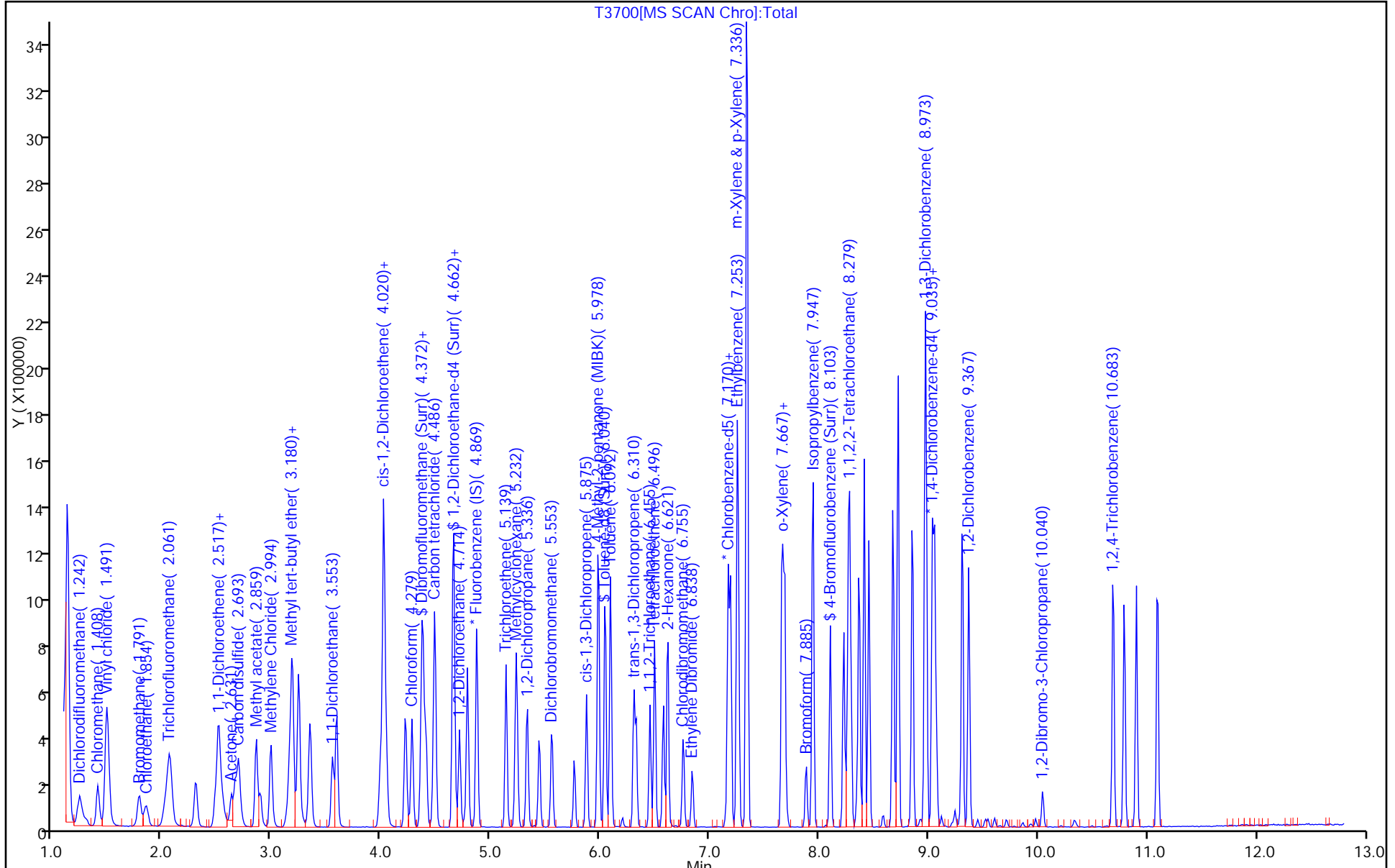
Dil. Factor: 10.0000

ALS Bottle#: 24

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

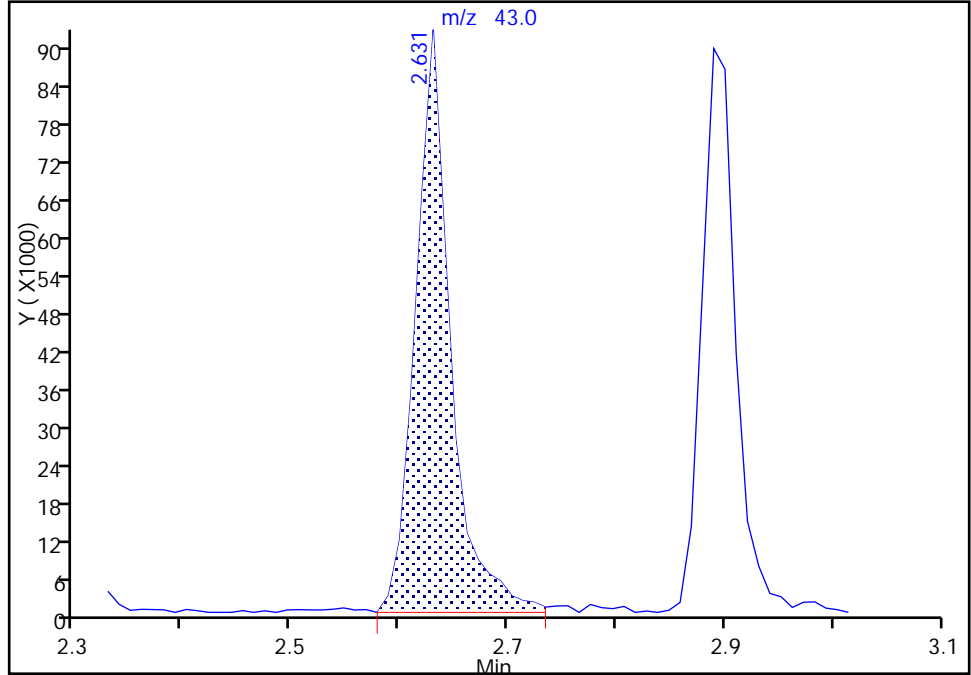
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3700.D
Injection Date: 06-Jan-2018 02:43:30 Instrument ID: HP5975T
Lims ID: 480-129748-K-4 MS
Client ID:
Operator ID: kn ALS Bottle#: 24 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

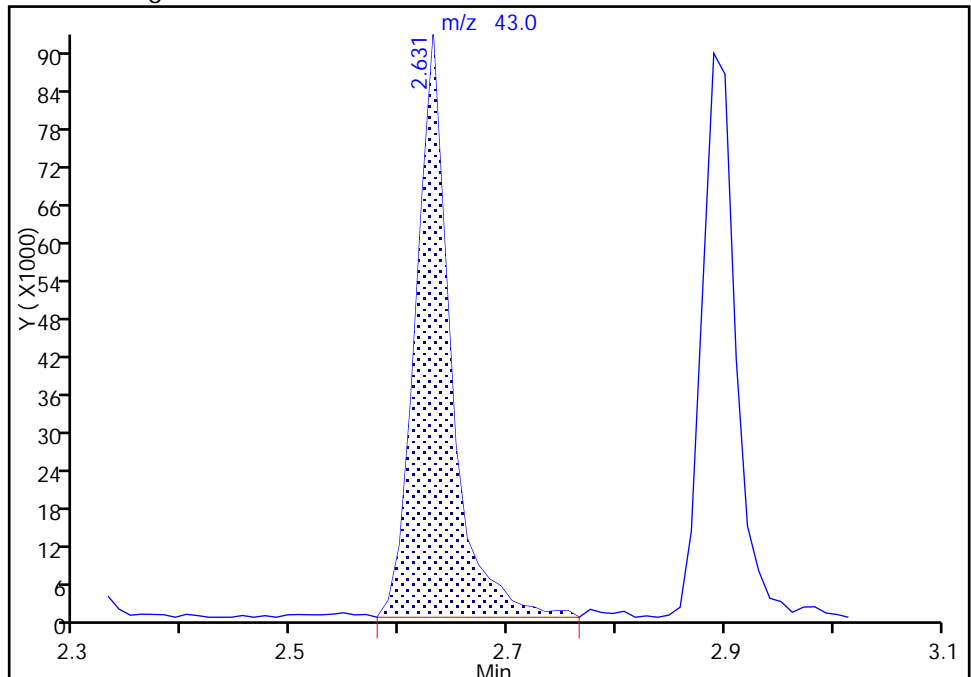
RT: 2.63
Area: 207710
Amount: 97.574348
Amount Units: ug/L

Processing Integration Results



RT: 2.63
Area: 208985
Amount: 98.173295
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 08-Jan-2018 09:06:10
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MSD Lab Sample ID: 480-129748-1 MSD
 Matrix: Water Lab File ID: N6120.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 04:25
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2690		100	82
79-34-5	1,1,2,2-Tetrachloroethane	2490		100	21
79-00-5	1,1,2-Trichloroethane	2500		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2800		100	31
75-34-3	1,1-Dichloroethane	2630		100	38
75-35-4	1,1-Dichloroethene	2600		100	29
120-82-1	1,2,4-Trichlorobenzene	2660		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	2450		100	39
95-50-1	1,2-Dichlorobenzene	2640		100	79
107-06-2	1,2-Dichloroethane	2450		100	21
78-87-5	1,2-Dichloropropane	2650		100	72
541-73-1	1,3-Dichlorobenzene	2610		100	78
106-46-7	1,4-Dichlorobenzene	2490		100	84
78-93-3	2-Butanone (MEK)	14700		1000	130
591-78-6	2-Hexanone	12600		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	13100		500	210
67-64-1	Acetone	18900		1000	300
71-43-2	Benzene	2630		100	41
75-27-4	Bromodichloromethane	2650		100	39
75-25-2	Bromoform	2450		100	26
74-83-9	Bromomethane	2640		100	69
75-15-0	Carbon disulfide	2480		100	19
56-23-5	Carbon tetrachloride	2730		100	27
108-90-7	Chlorobenzene	2540		100	75
124-48-1	Dibromochloromethane	2660		100	32
75-00-3	Chloroethane	2840		100	32
67-66-3	Chloroform	2500		100	34
74-87-3	Chloromethane	2350		100	35
156-59-2	cis-1,2-Dichloroethene	6060		100	81
10061-01-5	cis-1,3-Dichloropropene	2610		100	36
110-82-7	Cyclohexane	2480		100	18
75-71-8	Dichlorodifluoromethane	2490		100	68
100-41-4	Ethylbenzene	2490		100	74
106-93-4	1,2-Dibromoethane	2590		100	73
98-82-8	Isopropylbenzene	2590		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MSD Lab Sample ID: 480-129748-1 MSD
 Matrix: Water Lab File ID: N6120.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 04:25
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	5310		250	130
1634-04-4	Methyl tert-butyl ether	2590		100	16
108-87-2	Methylcyclohexane	2610		100	16
75-09-2	Methylene Chloride	2290		100	44
100-42-5	Styrene	2610		100	73
127-18-4	Tetrachloroethene	2660		100	36
108-88-3	Toluene	2530		100	51
156-60-5	trans-1,2-Dichloroethene	2660		100	90
10061-02-6	trans-1,3-Dichloropropene	2460		100	37
79-01-6	Trichloroethene	2640		100	46
75-69-4	Trichlorofluoromethane	2580		100	88
75-01-4	Vinyl chloride	4110		100	90
1330-20-7	Xylenes, Total	4950		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6120.D
 Lims ID: 480-129748-A-1 MSD
 Client ID: LBA-SBW-15
 Sample Type: MSD
 Inject. Date: 08-Jan-2018 04:25:30 ALS Bottle#: 26 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-129748-A-1 MSD
 Misc. Info.: 480-0068396-031
 Operator ID: AS Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:50:06 Calib Date: 28-Dec-2017 23:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20171228-68271.b\N5963.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: scibilliam

Date: 08-Jan-2018 09:51:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	172869	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	88	691548	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	94	364318	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	233532	25.0	26.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	305362	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	838904	25.0	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	93	299511	25.0	25.6	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	97	207632	25.0	24.9	
13 Chloromethane	50	1.507	1.513	-0.006	100	453868	25.0	23.5	
14 Vinyl chloride	62	1.592	1.598	-0.006	99	525677	25.0	41.1	
15 Bromomethane	94	1.902	1.902	0.000	90	174679	25.0	26.4	
16 Chloroethane	64	1.999	1.999	0.000	96	213277	25.0	28.4	
18 Trichlorofluoromethane	101	2.194	2.200	-0.006	84	337225	25.0	25.8	
22 1,1-Dichloroethene	96	2.687	2.687	0.000	90	177022	25.0	26.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.736	-0.025	91	179723	25.0	28.0	
23 Acetone	43	2.784	2.802	0.000	98	734948	125.0	188.8	
25 Carbon disulfide	76	2.882	2.882	0.000	98	578822	25.0	24.8	
28 Methyl acetate	43	3.088	3.082	0.006	99	758160	50.0	53.1	
30 Methylene Chloride	84	3.174	3.174	0.000	90	201426	25.0	22.9	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	96	725668	25.0	25.9	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	93	215190	25.0	26.6	
36 1,1-Dichloroethane	63	3.812	3.812	0.000	96	482078	25.0	26.3	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	568996	25.0	60.6	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1223507	125.0	146.7	
50 Chloroform	83	4.664	4.664	0.000	97	384776	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.792	4.798	-0.006	96	341764	25.0	26.9	
52 Cyclohexane	56	4.816	4.822	-0.006	94	496194	25.0	24.8	
53 Carbon tetrachloride	117	4.938	4.938	0.000	95	297089	25.0	27.3	
55 Benzene	78	5.145	5.145	0.000	94	858993	25.0	26.3	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	95	397702	25.0	24.5	
60 Trichloroethene	95	5.753	5.765	0.000	92	228958	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.893	5.893	0.000	95	365188	25.0	26.1	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	89	269034	25.0	26.5	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	306082	25.0	26.5	
71 cis-1,3-Dichloropropene	75	6.678	6.684	-0.006	85	340558	25.0	26.1	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	99	843566	125.0	131.4	
73 Toluene	92	6.982	6.982	0.000	97	576559	25.0	25.3	
75 trans-1,3-Dichloropropene	75	7.244	7.243	0.001	92	322863	25.0	24.6	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	97	171461	25.0	25.0	
79 Tetrachloroethene	166	7.523	7.523	0.000	96	263600	25.0	26.6	
82 2-Hexanone	43	7.657	7.663	-0.006	98	1743800	125.0	126.1	
83 Chlorodibromomethane	129	7.828	7.827	0.001	89	255539	25.0	26.6	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	229949	25.0	25.9	
85 Chlorobenzene	112	8.418	8.418	0.000	94	673322	25.0	25.4	
88 Ethylbenzene	91	8.521	8.521	0.000	99	1077431	25.0	24.9	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	423420		24.8	
91 o-Xylene	106	9.069	9.069	0.000	98	422041		24.7	
92 Styrene	104	9.093	9.093	0.000	95	736253	25.0	26.1	
93 Bromoform	173	9.324	9.324	0.000	96	168854	25.0	24.5	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1111951	25.0	25.9	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	97	297272	25.0	24.9	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	99	556740	25.0	26.1	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	552119	25.0	24.9	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	98	550368	25.0	26.4	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.885	-0.006	81	56476	25.0	24.5	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	352060	25.0	26.6	
S 126 Xylenes, Total	1				0			49.6	

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
N_8260_Surr_00311	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180107-68396.b\N6120.D

Injection Date: 08-Jan-2018 04:25:30

Instrument ID: HP5973N

Operator ID: AS

Lims ID: 480-129748-A-1 MSD

Worklist Smp#: 31

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

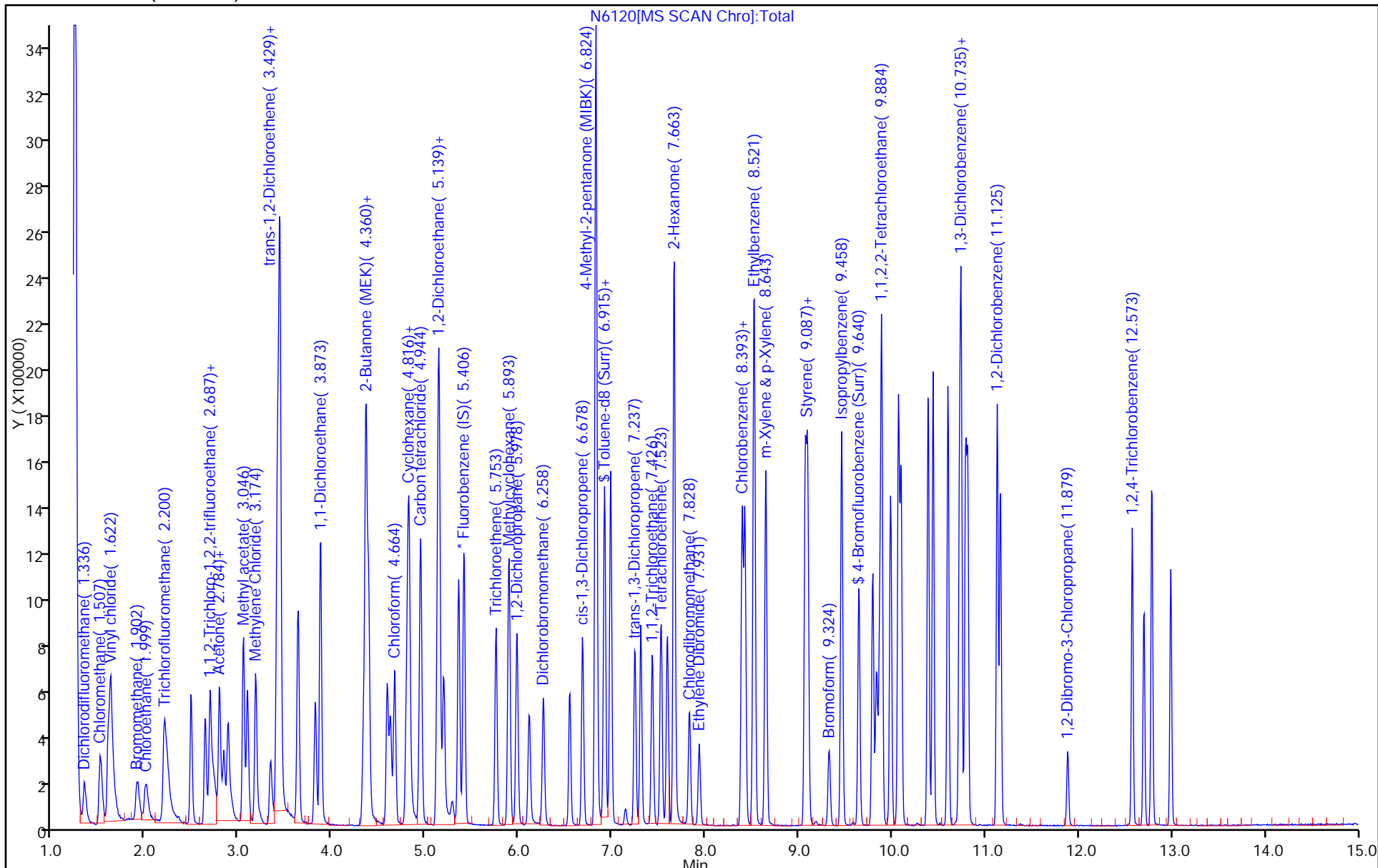
Dil. Factor: 100.0000

ALS Bottle#: 26

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S MSD Lab Sample ID: 480-129748-4 MSD
 Matrix: Water Lab File ID: T3701.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/06/2018 03:07
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	266		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	195		10	2.1
79-00-5	1,1,2-Trichloroethane	234		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	276		10	3.1
75-34-3	1,1-Dichloroethane	220		10	3.8
75-35-4	1,1-Dichloroethene	245		10	2.9
120-82-1	1,2,4-Trichlorobenzene	236		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	225		10	3.9
95-50-1	1,2-Dichlorobenzene	232		10	7.9
107-06-2	1,2-Dichloroethane	241		10	2.1
78-87-5	1,2-Dichloropropane	215		10	7.2
541-73-1	1,3-Dichlorobenzene	230		10	7.8
106-46-7	1,4-Dichlorobenzene	233		10	8.4
78-93-3	2-Butanone (MEK)	993		100	13
591-78-6	2-Hexanone	891		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	937		50	21
67-64-1	Acetone	986		100	30
71-43-2	Benzene	259		10	4.1
75-27-4	Bromodichloromethane	249		10	3.9
75-25-2	Bromoform	274		10	2.6
74-83-9	Bromomethane	249		10	6.9
75-15-0	Carbon disulfide	230		10	1.9
56-23-5	Carbon tetrachloride	291		10	2.7
108-90-7	Chlorobenzene	237		10	7.5
124-48-1	Dibromochloromethane	258		10	3.2
75-00-3	Chloroethane	244		10	3.2
67-66-3	Chloroform	249		10	3.4
74-87-3	Chloromethane	210		10	3.5
156-59-2	cis-1,2-Dichloroethene	692		10	8.1
10061-01-5	cis-1,3-Dichloropropene	239		10	3.6
110-82-7	Cyclohexane	210		10	1.8
75-71-8	Dichlorodifluoromethane	281		10	6.8
100-41-4	Ethylbenzene	244		10	7.4
106-93-4	1,2-Dibromoethane	246		10	7.3
98-82-8	Isopropylbenzene	255		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S MSD Lab Sample ID: 480-129748-4 MSD
 Matrix: Water Lab File ID: T3701.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/06/2018 03:07
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	412		25	13
1634-04-4	Methyl tert-butyl ether	268		10	1.6
108-87-2	Methylcyclohexane	231		10	1.6
75-09-2	Methylene Chloride	243		10	4.4
100-42-5	Styrene	226		10	7.3
127-18-4	Tetrachloroethene	285		10	3.6
108-88-3	Toluene	248		10	5.1
156-60-5	trans-1,2-Dichloroethene	260		10	9.0
10061-02-6	trans-1,3-Dichloropropene	223		10	3.7
79-01-6	Trichloroethene	252		10	4.6
75-69-4	Trichlorofluoromethane	291		10	8.8
75-01-4	Vinyl chloride	431		10	9.0
1330-20-7	Xylenes, Total	983		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	115		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3701.D
 Lims ID: 480-129748-K-4 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 06-Jan-2018 03:07:30 ALS Bottle#: 25 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-129748-F-4 MSD
 Misc. Info.: 480-0068385-027
 Operator ID: kn Instrument ID: HP5975T
 Method: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jan-2018 09:06:26 Calib Date: 01-Dec-2017 22:13:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5975T\20171201-67685.b\T2477.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 08-Jan-2018 09:06:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.869	4.869	0.000	98	108009	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.170	7.170	0.000	89	421963	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.035	9.035	0.000	96	268144	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.403	4.403	0.000	93	149396	25.0	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.652	4.652	0.000	0	188331	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	6.040	6.040	0.000	95	488371	25.0	23.3	
\$ 7 4-Bromofluorobenzene (Surr	174	8.103	8.102	0.001	92	200376	25.0	28.7	
11 Dichlorodifluoromethane	85	1.242	1.232	0.010	97	195588	25.0	28.1	
13 Chloromethane	50	1.398	1.398	0.000	98	207028	25.0	21.0	
14 Vinyl chloride	62	1.491	1.481	0.010	98	327414	25.0	43.1	
15 Bromomethane	94	1.781	1.771	0.010	91	110410	25.0	24.9	
16 Chloroethane	64	1.843	1.864	0.000	97	96102	25.0	24.4	
17 Trichlorofluoromethane	101	2.061	2.051	0.010	82	298401	25.0	29.1	
20 1,1,2-Trichloro-1,2,2-trif	101	2.527	2.517	0.020	77	133479	25.0	27.6	
22 1,1-Dichloroethene	96	2.507	2.538	0.000	93	114287	25.0	24.5	
23 Acetone	43	2.621	2.621	-0.001	97	203438	125.0	98.6	M
25 Carbon disulfide	76	2.693	2.683	0.010	99	355897	25.0	23.0	
28 Methyl acetate	43	2.890	2.890	0.000	99	198887	50.0	41.2	
30 Methylene Chloride	84	2.994	3.004	0.011	94	139888	25.0	24.3	
33 Methyl tert-butyl ether	73	3.170	3.170	0.000	98	443742	25.0	26.8	
32 trans-1,2-Dichloroethene	96	3.190	3.191	0.010	93	136142	25.0	26.0	
36 1,1-Dichloroethane	63	3.553	3.553	0.010	97	247138	25.0	22.0	
43 cis-1,2-Dichloroethene	96	4.020	4.020	0.000	84	420695	25.0	69.2	
44 2-Butanone (MEK)	43	4.040	4.051	0.000	98	294793	125.0	99.3	
50 Chloroform	83	4.279	4.279	0.000	95	275968	25.0	24.9	
51 1,1,1-Trichloroethane	97	4.372	4.362	0.000	97	266276	25.0	26.6	
52 Cyclohexane	56	4.372	4.372	0.000	97	272421	25.0	21.0	
53 Carbon tetrachloride	117	4.486	4.476	0.010	96	253963	25.0	29.1	
55 Benzene	78	4.652	4.652	0.000	94	516954	25.0	25.9	
57 1,2-Dichloroethane	62	4.714	4.714	0.000	97	255723	25.0	24.1	
60 Trichloroethene	95	5.139	5.139	0.000	92	151746	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.232	5.232	0.000	98	215956	25.0	23.1	
63 1,2-Dichloropropane	63	5.336	5.325	0.011	86	129361	25.0	21.5	
67 Dichlorobromomethane	83	5.553	5.553	0.000	97	204974	25.0	24.9	
71 cis-1,3-Dichloropropene	75	5.875	5.875	-0.001	89	210709	25.0	23.9	
72 4-Methyl-2-pentanone (MIBK)	43	5.978	5.978	0.000	98	653458	125.0	93.7	
73 Toluene	92	6.092	6.092	0.000	98	338381	25.0	24.8	
75 trans-1,3-Dichloropropene	75	6.310	6.310	0.000	97	205332	25.0	22.3	
78 1,1,2-Trichloroethane	83	6.455	6.455	0.000	92	94204	25.0	23.4	
79 Tetrachloroethene	166	6.496	6.507	0.000	97	189626	25.0	28.5	
81 2-Hexanone	43	6.621	6.610	0.011	96	439754	125.0	89.1	
82 Chlorodibromomethane	129	6.755	6.755	0.000	91	169682	25.0	25.8	
83 Ethylene Dibromide	107	6.838	6.838	0.000	98	134754	25.0	24.6	
86 Chlorobenzene	112	7.191	7.191	0.000	93	402873	25.0	23.7	
88 Ethylbenzene	91	7.253	7.253	0.000	99	688655	25.0	24.4	
90 m-Xylene & p-Xylene	106	7.336	7.336	0.000	0	809997		74.4	
91 o-Xylene	106	7.667	7.667	0.000	98	257293		23.9	
92 Styrene	104	7.688	7.688	0.000	94	414572	25.0	22.6	
93 Bromoform	173	7.885	7.885	0.000	96	114302	25.0	27.4	
95 Isopropylbenzene	105	7.947	7.947	0.000	97	809411	25.0	25.5	
98 1,1,2,2-Tetrachloroethane	83	8.258	8.258	0.000	97	136493	25.0	19.5	
110 1,3-Dichlorobenzene	146	8.983	8.984	-0.001	97	373260	25.0	23.0	
113 1,4-Dichlorobenzene	146	9.056	9.046	0.000	94	380899	25.0	23.3	
116 1,2-Dichlorobenzene	146	9.367	9.377	0.000	97	361801	25.0	23.2	
117 1,2-Dibromo-3-Chloropropan	75	10.040	10.041	-0.001	83	31806	25.0	22.5	
119 1,2,4-Trichlorobenzene	180	10.693	10.693	0.000	95	300469	25.0	23.6	
S 126 Xylenes, Total	1				0			98.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00117	Amount Added: 12.50	Units: uL	
GAS CORP mix_00258	Amount Added: 12.50	Units: uL	
T_8260_IS_00183	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00164	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3701.D

Injection Date: 06-Jan-2018 03:07:30

Instrument ID: HP5975T

Operator ID: kn

Lims ID: 480-129748-K-4 MSD

Worklist Smp#: 27

Client ID:

Purge Vol: 5.000 mL

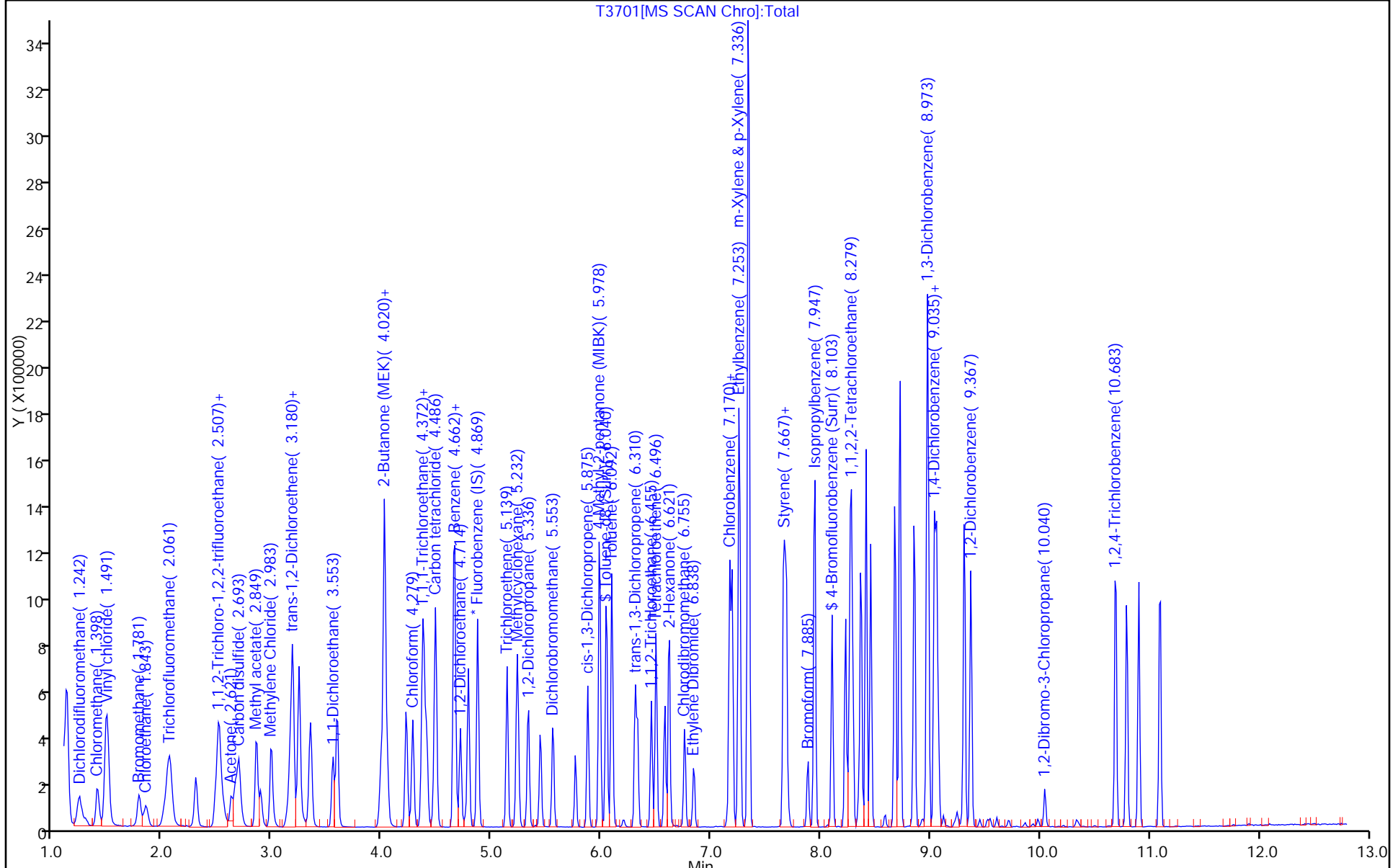
Dil. Factor: 10.0000

ALS Bottle#: 25

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

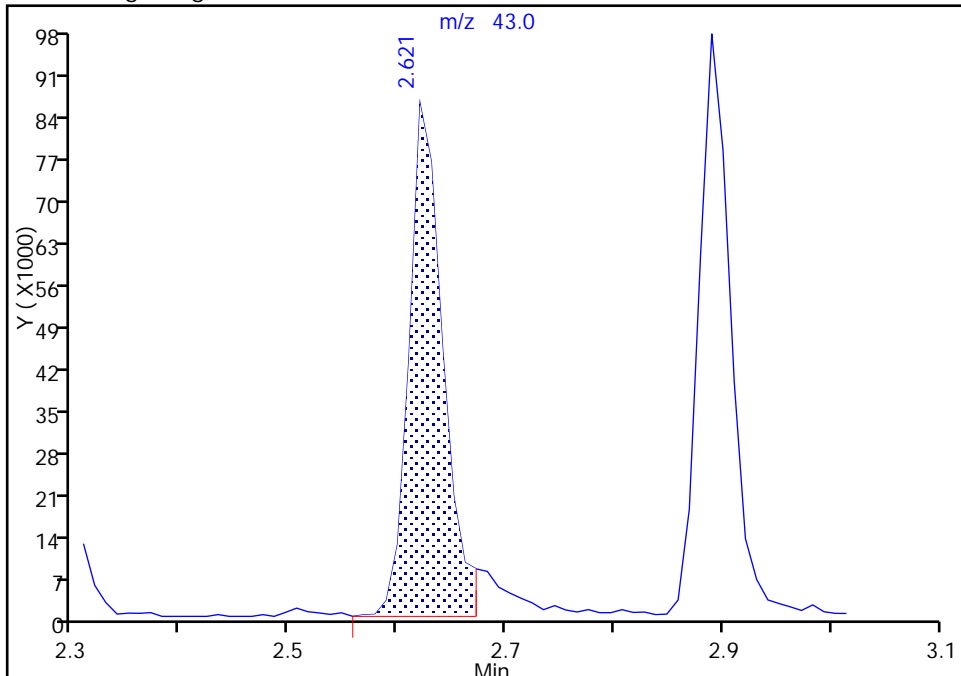
Data File: \\ChromNA\Buffalo\ChromData\HP5975T\20180105-68385.b\T3701.D
Injection Date: 06-Jan-2018 03:07:30 Instrument ID: HP5975T
Lims ID: 480-129748-K-4 MSD
Client ID:
Operator ID: kn ALS Bottle#: 25 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

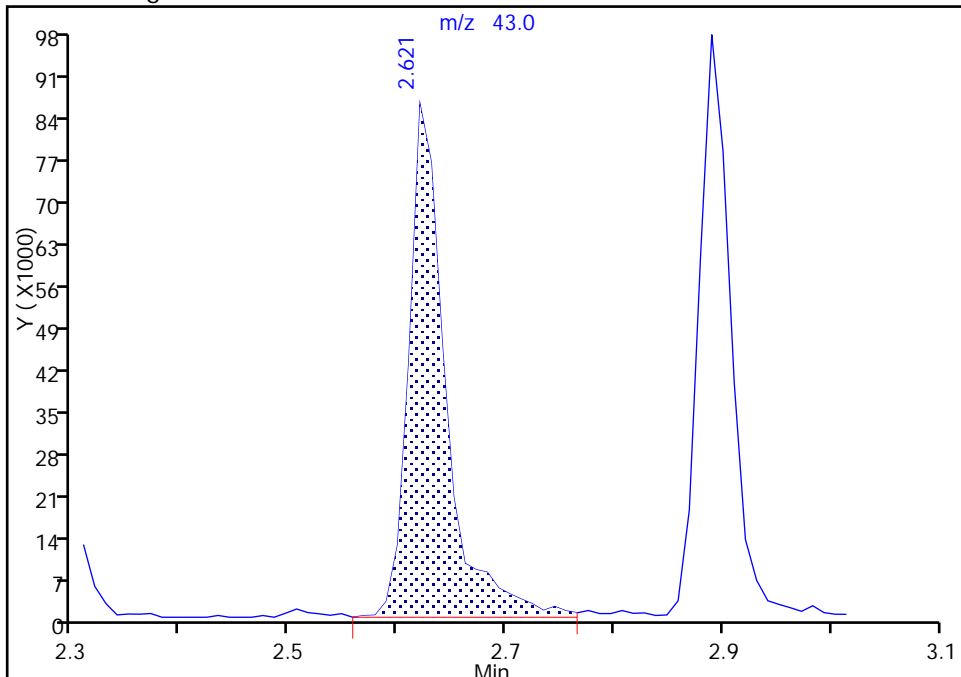
RT: 2.62
Area: 187142
Amount: 90.681281
Amount Units: ug/L

Processing Integration Results



RT: 2.62
Area: 203438
Amount: 98.577649
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 08-Jan-2018 09:06:24
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129748-2

SDG No.: _____

Instrument ID: HP5973NStart Date: 12/28/2017 14:51Analysis Batch Number: 393925End Date: 12/29/2017 01:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-393925/4		12/28/2017 14:51	1	N5943.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/6		12/28/2017 15:45	1	N5945.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/7		12/28/2017 16:12	1	N5946.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/8		12/28/2017 16:40	1	N5947.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/9		12/28/2017 17:07	1	N5948.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/10		12/28/2017 17:34	1	N5949.D	ZB-624 (20) 0.18 (mm)
ICIS 480-393925/11		12/28/2017 18:01	1	N5950.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/12		12/28/2017 18:28	1	N5951.D	ZB-624 (20) 0.18 (mm)
IC 480-393925/13		12/28/2017 18:55	1	N5952.D	ZB-624 (20) 0.18 (mm)
MDLV 480-393925/15		12/28/2017 19:50	1		ZB-624 (20) 0.18 (mm)
MDLV 480-393925/16		12/28/2017 20:17	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/18		12/28/2017 21:11	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/19		12/28/2017 21:38	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/20		12/28/2017 22:05	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/21		12/28/2017 22:31	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/22		12/28/2017 22:58	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/23		12/28/2017 23:25	1		ZB-624 (20) 0.18 (mm)
IC 480-393925/24		12/28/2017 23:52	1		ZB-624 (20) 0.18 (mm)
ICV 480-393925/27		12/29/2017 01:13	1		ZB-624 (20) 0.18 (mm)
ICV 480-393925/28		12/29/2017 01:40	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129748-2

SDG No.: _____

Instrument ID: HP5973NStart Date: 01/07/2018 17:00Analysis Batch Number: 394763End Date: 01/08/2018 04:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-394763/1		01/07/2018 17:00	1	N6095.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-394763/2		01/07/2018 17:24	1	N6096.D	ZB-624 (20) 0.18 (mm)
LCS 480-394763/4		01/07/2018 18:18	1	N6098.D	ZB-624 (20) 0.18 (mm)
MB 480-394763/6		01/07/2018 19:12	1	N6100.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 19:53	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 20:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 20:48	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 21:14	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 21:41	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 22:08	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 22:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 23:02	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 23:29	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/07/2018 23:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 00:23	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 00:49	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 01:16	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 01:43	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 02:10	1		ZB-624 (20) 0.18 (mm)
480-129748-1		01/08/2018 02:37	100	N6116.D	ZB-624 (20) 0.18 (mm)
480-129748-2		01/08/2018 03:04	100	N6117.D	ZB-624 (20) 0.18 (mm)
480-129748-3		01/08/2018 03:31	10	N6118.D	ZB-624 (20) 0.18 (mm)
480-129748-1 MS		01/08/2018 03:58	100	N6119.D	ZB-624 (20) 0.18 (mm)
480-129748-1 MSD		01/08/2018 04:25	100	N6120.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129748-2

SDG No.: _____

Instrument ID: HP5973NStart Date: 01/08/2018 08:59Analysis Batch Number: 394793End Date: 01/08/2018 19:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-394793/2		01/08/2018 08:59	1	N6122.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-394793/3		01/08/2018 09:25	1	N6123.D	ZB-624 (20) 0.18 (mm)
LCS 480-394793/5		01/08/2018 10:20	1	N6125.D	ZB-624 (20) 0.18 (mm)
MB 480-394793/7		01/08/2018 11:14	1	N6127.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 12:03	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 12:30	100		ZB-624 (20) 0.18 (mm)
480-129748-5		01/08/2018 12:57	100	N6130.D	ZB-624 (20) 0.18 (mm)
480-129748-6		01/08/2018 13:24	2	N6131.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 13:51	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 14:18	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 14:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 15:13	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 15:40	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 16:07	4		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 16:35	4		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 17:01	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 17:28	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 17:55	4		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 18:22	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 18:49	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 19:16	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/08/2018 19:43	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129748-2

SDG No.: _____

Instrument ID: HP5975TStart Date: 12/01/2017 14:21Analysis Batch Number: 390101End Date: 12/02/2017 01:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-390101/11		12/01/2017 14:21	1	T2457.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/13		12/01/2017 15:10	1	T2459.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/14		12/01/2017 15:33	1	T2460.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/15		12/01/2017 15:57	1	T2461.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/16		12/01/2017 16:20	1	T2462.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/17		12/01/2017 16:44	1	T2463.D	ZB-624 (20) 0.18 (mm)
ICIS 480-390101/18		12/01/2017 17:07	1	T2464.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/19		12/01/2017 17:31	1	T2465.D	ZB-624 (20) 0.18 (mm)
IC 480-390101/20		12/01/2017 17:54	1	T2466.D	ZB-624 (20) 0.18 (mm)
MDLV 480-390101/22		12/01/2017 18:42	1		ZB-624 (20) 0.18 (mm)
MDLV 480-390101/23		12/01/2017 19:05	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/25		12/01/2017 19:52	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/26		12/01/2017 20:16	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/27		12/01/2017 20:39	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/28		12/01/2017 21:03	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/29		12/01/2017 21:26	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/30		12/01/2017 21:50	1		ZB-624 (20) 0.18 (mm)
IC 480-390101/31		12/01/2017 22:13	1		ZB-624 (20) 0.18 (mm)
MDLV 480-390101/33		12/01/2017 23:00	1		ZB-624 (20) 0.18 (mm)
ICV 480-390101/34		12/01/2017 23:24	1		ZB-624 (20) 0.18 (mm)
ICV 480-390101/35		12/01/2017 23:47	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2017 00:11	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2017 00:34	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2017 00:58	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2017 01:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		12/02/2017 01:45	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129748-2

SDG No.: _____

Instrument ID: HP5975TStart Date: 01/05/2018 17:19Analysis Batch Number: 394701End Date: 01/06/2018 03:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-394701/2		01/05/2018 17:19	1	T3678.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-394701/3		01/05/2018 17:45	1	T3679.D	ZB-624 (20) 0.18 (mm)
CCV 480-394701/4		01/05/2018 18:09	1		ZB-624 (20) 0.18 (mm)
LCS 480-394701/5		01/05/2018 18:47	1	T3681.D	ZB-624 (20) 0.18 (mm)
RL 480-394701/6		01/05/2018 19:25	1		ZB-624 (20) 0.18 (mm)
MB 480-394701/7		01/05/2018 19:49	1	T3683.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 20:24	1		ZB-624 (20) 0.18 (mm)
480-129748-4		01/05/2018 20:48	10	T3685.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 21:12	100		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 21:36	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 22:00	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 22:24	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 22:47	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 23:10	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 23:34	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/05/2018 23:57	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/06/2018 00:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/06/2018 00:45	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/06/2018 01:08	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/06/2018 01:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/06/2018 01:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/06/2018 02:19	1		ZB-624 (20) 0.18 (mm)
480-129748-4 MS		01/06/2018 02:43	10	T3700.D	ZB-624 (20) 0.18 (mm)
480-129748-4 MSD		01/06/2018 03:07	10	T3701.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Batch Number: 394701 Batch Start Date: 01/05/18 17:19 Batch Analyst: Reile, Rebecca S

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00117	BFB_WRK 00066	GAS CORP mix 00258
BFB 480-394701/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-394701/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-394701/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-394701/7		8260C		5 mL	5 mL				
480-129748-K-4	ML-2S	8260C	T	5 mL	5 mL	7 SU			
480-129748-K-4 MS	ML-2S	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL
480-129748-K-4 MSD	ML-2S	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00183	T_8260_Surr 00164				
BFB 480-394701/2		8260C							
CCVIS 480-394701/3		8260C		1 uL	1 uL				
LCS 480-394701/5		8260C		1 uL	1 uL				
MB 480-394701/7		8260C		1 uL	1 uL				
480-129748-K-4	ML-2S	8260C	T	1 uL	1 uL				
480-129748-K-4 MS	ML-2S	8260C	T	1 uL	1 uL				
480-129748-K-4 MSD	ML-2S	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Batch Number: 394763 Batch Start Date: 01/07/18 17:00 Batch Analyst: Moffat, Alyssa M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00118	BFB_WRK 00067	GAS CORP mix 00258
BFB 480-394763/1		8260C		1 uL	1 uL			1 uL	
CCVIS 480-394763/2		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-394763/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-394763/6		8260C		5 mL	5 mL				
480-129748-J-1	LBA-SBW-15	8260C	T	5 mL	5 mL	3 SU			
480-129748-B-2	DUPE	8260C	T	5 mL	5 mL	3 SU			
480-129748-J-3	LBA-SBW-16	8260C	T	5 mL	5 mL	6 SU			
480-129748-A-1 MS	LBA-SBW-15	8260C	T	5 mL	5 mL	3 SU	12.5 uL		12.5 uL
480-129748-A-1 MSD	LBA-SBW-15	8260C	T	5 mL	5 mL	3 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00101	N_8260_Surr 00311	AnalysisComment			
BFB 480-394763/1		8260C							
CCVIS 480-394763/2		8260C		1 uL	1 uL				
LCS 480-394763/4		8260C		1 uL	1 uL				
MB 480-394763/6		8260C		1 uL	1 uL				
480-129748-J-1	LBA-SBW-15	8260C	T	1 uL	1 uL	Targets			
480-129748-B-2	DUPE	8260C	T	1 uL	1 uL	Targets			
480-129748-J-3	LBA-SBW-16	8260C	T	1 uL	1 uL	Targets			
480-129748-A-1 MS	LBA-SBW-15	8260C	T	1 uL	1 uL	Client QC			
480-129748-A-1 MSD	LBA-SBW-15	8260C	T	1 uL	1 uL	Client QC			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Batch Number: 394763 Batch Start Date: 01/07/18 17:00 Batch Analyst: Moffat, Alyssa M

Batch Method: 8260C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2

SDG No.: _____

Batch Number: 394793 Batch Start Date: 01/08/18 08:59 Batch Analyst: Sonker, Alexander R

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00118	BFB_WRK 00067	GAS CORP mix 00258
BFB 480-394793/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-394793/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-394793/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-394793/7		8260C		5 mL	5 mL				
480-129748-I-5	ML-2I	8260C	T	5 mL	5 mL	<2 SU			
480-129748-I-6	ML-2D	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00101	N_8260_Surr 00311				
BFB 480-394793/2		8260C							
CCVIS 480-394793/3		8260C		1 uL	1 uL				
LCS 480-394793/5		8260C		1 uL	1 uL				
MB 480-394793/7		8260C		1 uL	1 uL				
480-129748-I-5	ML-2I	8260C	T	1 uL	1 uL				
480-129748-I-6	ML-2D	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

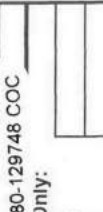
Client Contact
Company Name: **LaBella Associates**
Address: **300 State Street**
City/State/Zip: **Rochester, NY, 14614**
Phone: **785-454-6112**
Fax:
Project Name: **FESL**
Site:
P.O.# **210173**

Regulatory Program: DW NPDES RCRA Other:

Project Manager: **Don Mall**
Tell/Fax:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact: **Agg Aquilino**
Lab Contact: **Melissa Devo**
Date: **2/14/18**
Carrier: **Fed Ex**

COC No.:
Sampler: **480-129748 COC**
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:



Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
LBA-SBW-15	1/2/18	1045	G	GW	11	N	X	MS
MS	1/2/18	1045	G	GW	3	N	X	MS
MSD	1/2/18	1045	G	GW	3	N	X	MSD
Dupe	1/2/18	1405	G	GW	11	N	X	Dupe
LBA-SBW-16	1/2/18	1530	G	GW	11	N	X	LBA-SBW-16
ML-ZS	1/3/18	1030	G	GW	11	N	X	ML-ZS
ML-ZI	1/3/18	1230	G	GW	11	N	X	ML-ZI
ML-ZD	1/3/18	1230	G	GW	11	N	X	ML-ZD

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Unknown Poison B

Special Instructions/QC Requirements & Comments: **Include TIC for VOC analysis. Please prepare an ASP category B Report and NYS EPP for VOC analysis only. Please email results to aaron@labelbella.com and aaron@labelbella.com.**

Custody Seal No.:
Relinquished by: **Ms. Lisa**
Relinquished by: **Fed Ex**
Relinquished by: **Ammon Likob**
Date/Time: **1/4/18-1230**
Date/Time: **2/15/18 1100**

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-129748-2

Login Number: 129748
List Number: 1
Creator: Harper, Marcus D

List Source: TestAmerica Buffalo

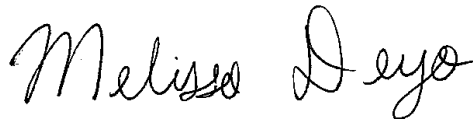
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-129878-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
7/3/2018 8:25 AM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
07/03/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



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**Job Narrative
480-129878-1**

Receipt

The samples were received on 1/10/2018 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

Receipt Exceptions

The following samples were received with less than one shift (8 hours) remaining on a test (Nitrate and Nitrite) with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time ML-7I (480-129878-1) and ML-7I (480-129878-1[MS]).

HPLC/IC

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-7I (480-129878-1) and ML-7D (480-129878-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) RSK-175: The following samples were diluted due to the abundance of non-target analytes: ML-7I (480-129878-1) and ML-7D (480-129878-3). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-395349 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: ML-7I (480-129878-1) and ML-7D (480-129878-3).

Method(s) 353.2: The following sample was received outside of holding time: ML-7I (480-129878-1).

Method(s) 353.2: The following samples were filtered prior to analysis due to turbidity / color: ML-7I (480-129878-1) and ML-7D (480-129878-3)

Method(s) 353.2: The following sample was received outside of holding time: ML-7I (480-129878-1).

Method(s) 353.2: The following samples were filtered prior to analysis due to turbidity / color: ML-7I (480-129878-1) and ML-7D (480-129878-3)

Method(s) Nitrate by calc: The following sample was received outside of holding time: ML-7I (480-129878-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129878-1	ML-7I	Water	01/08/18 11:10	01/10/18 10:00
480-129878-3	ML-7D	Water	01/08/18 13:55	01/10/18 10:00

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Client Sample ID: ML-7I

Lab Sample ID: 480-129878-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethene	830		620	130	ug/L	88		RSK-175	Total/NA
Chloride	558		5.0	2.8	mg/L	10		9056A	Total/NA

Client Sample ID: ML-7D

Lab Sample ID: 480-129878-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethene	480	J	620	130	ug/L	88		RSK-175	Total/NA
Nitrate	5.0		0.050	0.020	mg/L as N	1		353.2	Total/NA
Nitrite	0.051		0.050	0.020	mg/L as N	1		353.2	Total/NA
Chloride	421		5.0	2.8	mg/L	10		9056A	Total/NA
Sulfate	152		20.0	3.5	mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9056A	Anions, Ion Chromatography	SW846	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Client Sample ID: ML-71
Date Collected: 01/08/18 11:10
Date Received: 01/10/18 10:00

Lab Sample ID: 480-129878-1
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		660	130	ug/L			01/11/18 10:28	88
Ethene	830		620	130	ug/L			01/11/18 10:28	88

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			01/10/18 12:00	1
Nitrite	ND	H	0.050	0.020	mg/L as N			01/10/18 12:00	1
Chloride	558		5.0	2.8	mg/L			01/11/18 11:43	10
Sulfate	ND		20.0	3.5	mg/L			01/11/18 11:43	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			01/16/18 17:00	1
Sulfide	ND		1.0	0.67	mg/L			01/15/18 11:30	1

Client Sample ID: ML-7D
Date Collected: 01/08/18 13:55
Date Received: 01/10/18 10:00

Lab Sample ID: 480-129878-3
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		660	130	ug/L			01/11/18 10:45	88
Ethene	480	J	620	130	ug/L			01/11/18 10:45	88

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	5.0		0.050	0.020	mg/L as N			01/10/18 12:01	1
Nitrite	0.051		0.050	0.020	mg/L as N			01/10/18 12:01	1
Chloride	421		5.0	2.8	mg/L			01/11/18 11:51	10
Sulfate	152		20.0	3.5	mg/L			01/11/18 11:51	10
Ferrous Iron	ND	HF F1	0.10	0.075	mg/L			01/16/18 17:00	1
Sulfide	ND		1.0	0.67	mg/L			01/15/18 11:30	1

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-395349/3
Matrix: Water
Analysis Batch: 395349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			01/11/18 07:49	1
Ethene	ND		7.0	1.5	ug/L			01/11/18 07:49	1

Lab Sample ID: LCS 480-395349/4
Matrix: Water
Analysis Batch: 395349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	14.8		ug/L		102	79 - 120
Ethene	13.6	13.3		ug/L		98	85 - 120

Lab Sample ID: LCSD 480-395349/5
Matrix: Water
Analysis Batch: 395349

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.6	14.4		ug/L		99	79 - 120	3	50
Ethene	13.6	12.9		ug/L		95	85 - 120	3	50

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-395257/3
Matrix: Water
Analysis Batch: 395257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L as N			01/10/18 11:58	1

Lab Sample ID: LCS 480-395257/4
Matrix: Water
Analysis Batch: 395257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	1.50	1.58		mg/L as N		105	90 - 110

Lab Sample ID: 480-129878-3 MS
Matrix: Water
Analysis Batch: 395257

Client Sample ID: ML-7D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	0.051		1.00	1.06		mg/L as N		101	90 - 110

Lab Sample ID: 480-129878-3 DU
Matrix: Water
Analysis Batch: 395257

Client Sample ID: ML-7D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite	0.051		0.0531		mg/L as N		3	20

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 480-395416/5
Matrix: Water
Analysis Batch: 395416

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			01/11/18 11:35	1
Sulfate	ND		2.0	0.35	mg/L			01/11/18 11:35	1

Lab Sample ID: LCS 480-395416/4
Matrix: Water
Analysis Batch: 395416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.00		mg/L		100	90 - 110
Sulfate	50.0	53.88		mg/L		108	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-396053/3
Matrix: Water
Analysis Batch: 396053

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			01/16/18 17:00	1

Lab Sample ID: LCS 480-396053/4
Matrix: Water
Analysis Batch: 396053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.86		mg/L		93	90 - 110

Lab Sample ID: 480-129878-3 MS
Matrix: Water
Analysis Batch: 396053

Client Sample ID: ML-7D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF F1	1.00	0.243	F1	mg/L		24	70 - 130

Lab Sample ID: 480-129878-1 DU
Matrix: Water
Analysis Batch: 396053

Client Sample ID: ML-7I
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-395879/3
Matrix: Water
Analysis Batch: 395879

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			01/15/18 11:30	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Lab Sample ID: LCS 480-395879/4
Matrix: Water
Analysis Batch: 395879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.40	7.20		mg/L		97	90 - 110

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

GC VOA

Analysis Batch: 395349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129878-1	ML-7I	Total/NA	Water	RSK-175	
480-129878-3	ML-7D	Total/NA	Water	RSK-175	
MB 480-395349/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-395349/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-395349/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 395257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129878-1	ML-7I	Total/NA	Water	353.2	
480-129878-3	ML-7D	Total/NA	Water	353.2	
MB 480-395257/3	Method Blank	Total/NA	Water	353.2	
LCS 480-395257/4	Lab Control Sample	Total/NA	Water	353.2	
480-129878-3 MS	ML-7D	Total/NA	Water	353.2	
480-129878-3 DU	ML-7D	Total/NA	Water	353.2	

Analysis Batch: 395283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129878-1	ML-7I	Total/NA	Water	353.2	
480-129878-3	ML-7D	Total/NA	Water	353.2	

Analysis Batch: 395416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129878-1	ML-7I	Total/NA	Water	9056A	
480-129878-3	ML-7D	Total/NA	Water	9056A	
MB 480-395416/5	Method Blank	Total/NA	Water	9056A	
LCS 480-395416/4	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 395879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129878-1	ML-7I	Total/NA	Water	SM 4500 S2 F	
480-129878-3	ML-7D	Total/NA	Water	SM 4500 S2 F	
MB 480-395879/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-395879/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 396053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129878-1	ML-7I	Total/NA	Water	SM 3500 FE D	
480-129878-3	ML-7D	Total/NA	Water	SM 3500 FE D	
MB 480-396053/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-396053/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-129878-3 MS	ML-7D	Total/NA	Water	SM 3500 FE D	
480-129878-1 DU	ML-7I	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Client Sample ID: ML-71
Date Collected: 01/08/18 11:10
Date Received: 01/10/18 10:00

Lab Sample ID: 480-129878-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		88	395349	01/11/18 10:28	TRG	TAL BUF
Total/NA	Analysis	353.2		1	395257	01/10/18 12:00	CLT	TAL BUF
Total/NA	Analysis	353.2		1	395283	01/10/18 12:00	CLT	TAL BUF
Total/NA	Analysis	9056A		10	395416	01/11/18 11:43	CLA	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	396053	01/16/18 17:00	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	395879	01/15/18 11:30	MDL	TAL BUF

Client Sample ID: ML-7D
Date Collected: 01/08/18 13:55
Date Received: 01/10/18 10:00

Lab Sample ID: 480-129878-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		88	395349	01/11/18 10:45	TRG	TAL BUF
Total/NA	Analysis	353.2		1	395257	01/10/18 12:01	CLT	TAL BUF
Total/NA	Analysis	353.2		1	395283	01/10/18 12:01	CLT	TAL BUF
Total/NA	Analysis	9056A		10	395416	01/11/18 11:51	CLA	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	396053	01/16/18 17:00	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	395879	01/15/18 11:30	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129878-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9056A		Water	Chloride
9056A		Water	Sulfate
SM 3500 FE D		Water	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_05_218.D
 Lab ID: LCS 480-395349/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	14.8	102	79-120	
Ethene	13.6	13.3	98	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_05_219.D

Lab ID: LCSD 480-395349/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	14.6	14.4	99	3	50	79-120	
Ethene	13.6	12.9	95	3	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Lab Sample ID: MB 480-395349/3
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_05_217.D Lab File ID: (2) _____
 Date Analyzed: (1) 01/11/2018 07:49 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-395349/4	01/11/2018 08:06	
	LCSD 480-395349/5	01/11/2018 08:24	
ML-7I	480-129878-1	01/11/2018 10:28	
ML-7D	480-129878-3	01/11/2018 10:45	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-129878-1
 Matrix: Water Lab File ID: 21_05_225.D
 Analysis Method: RSK-175 Date Collected: 01/08/2018 11:10
 Sample wt/vol: 17(mL) Date Analyzed: 01/11/2018 10:28
 Soil Aliquot Vol: _____ Dilution Factor: 88
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		660	130
74-85-1	Ethene	830		620	130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_225.D
 Lims ID: 480-129878-K-1
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 11-Jan-2018 10:28:02 ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 88.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:37:56 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane						
1	1.757	1.753	0.004	7262	-0.4047	
2	1.553	1.553	0.000	9888	-1.01	
3 Ethylene						
1	2.443	2.433	0.010	19816	9.43	
2	1.473	1.473	0.000	26380	9.33	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_225.D

Injection Date: 11-Jan-2018 10:28:02

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-129878-K-1

Lab Sample ID: 480-129878-1

Worklist Smp#: 11

Client ID: ML-71

Purge Vol: 5.000 mL

Dil. Factor: 88.0000

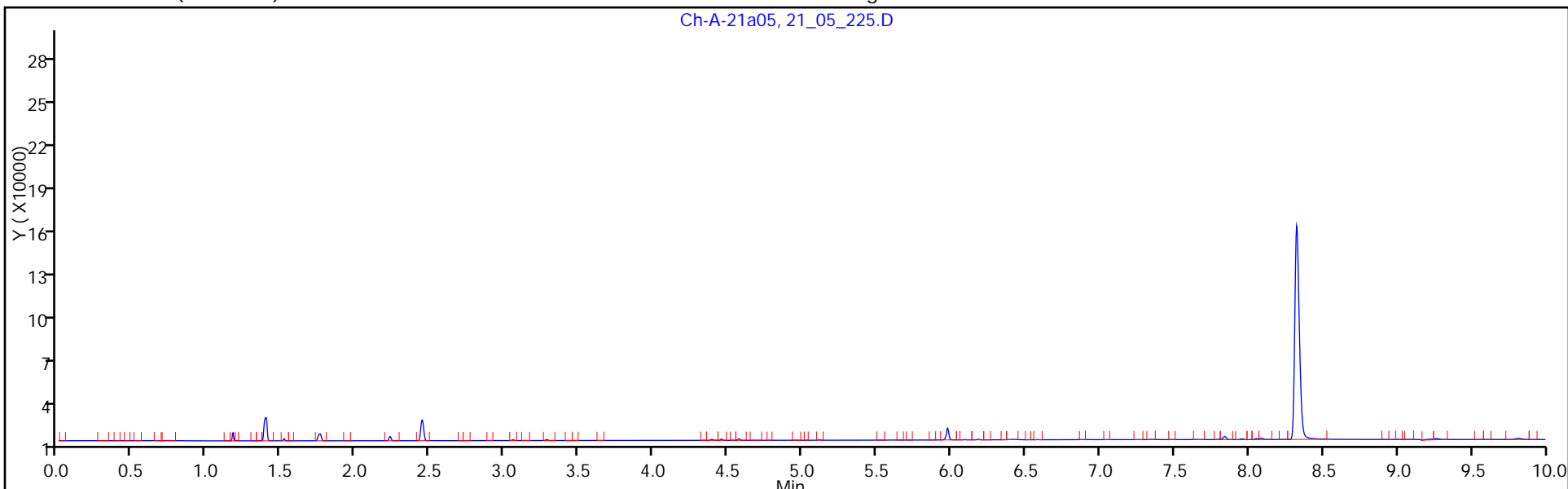
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

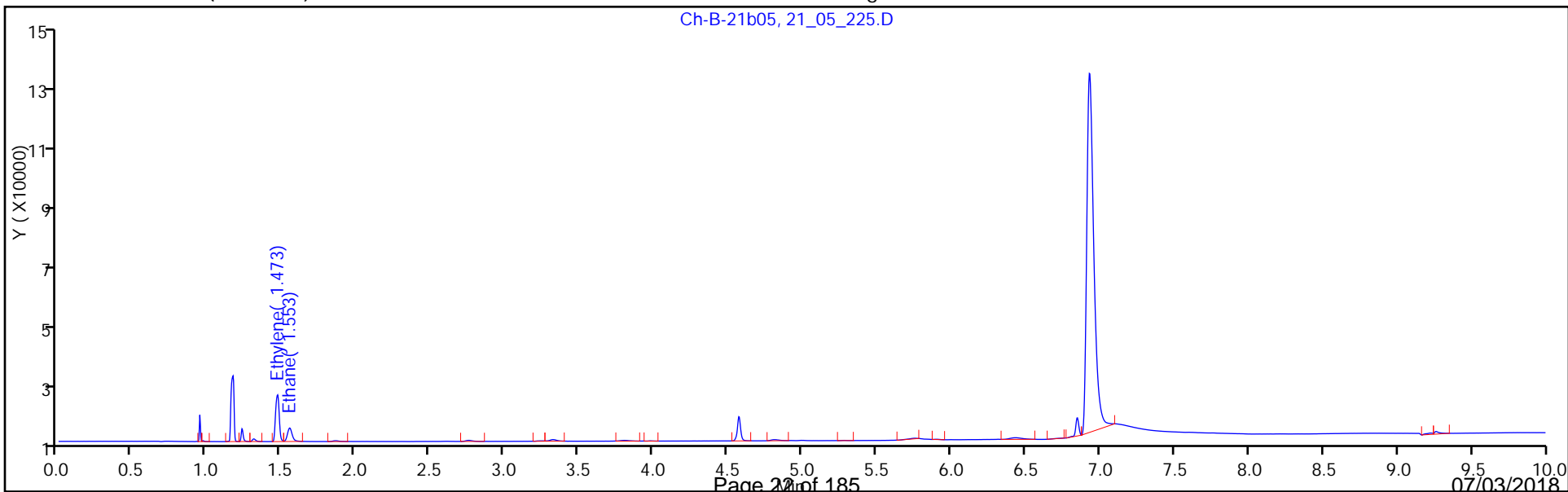
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-129878-3
 Matrix: Water Lab File ID: 21_05_226.D
 Analysis Method: RSK-175 Date Collected: 01/08/2018 13:55
 Sample wt/vol: 17(mL) Date Analyzed: 01/11/2018 10:45
 Soil Aliquot Vol: _____ Dilution Factor: 88
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		660	130
74-85-1	Ethene	480	J	620	130

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_226.D
 Lims ID: 480-129878-I-3
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 11-Jan-2018 10:45:32 ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 88.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:37:56 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 11-Jan-2018 11:26:02

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.757	1.753	0.004	4490	-2.22
2	1.553	1.553	0.000	6043	-3.01

3 Ethylene

1	2.447	2.433	0.014	14310	5.48
2	1.473	1.473	0.000	19133	5.13

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_226.D

Injection Date: 11-Jan-2018 10:45:32

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-129878-I-3

Lab Sample ID: 480-129878-3

Worklist Smp#: 12

Client ID: ML-7D

Purge Vol: 5.000 mL

Dil. Factor: 88.0000

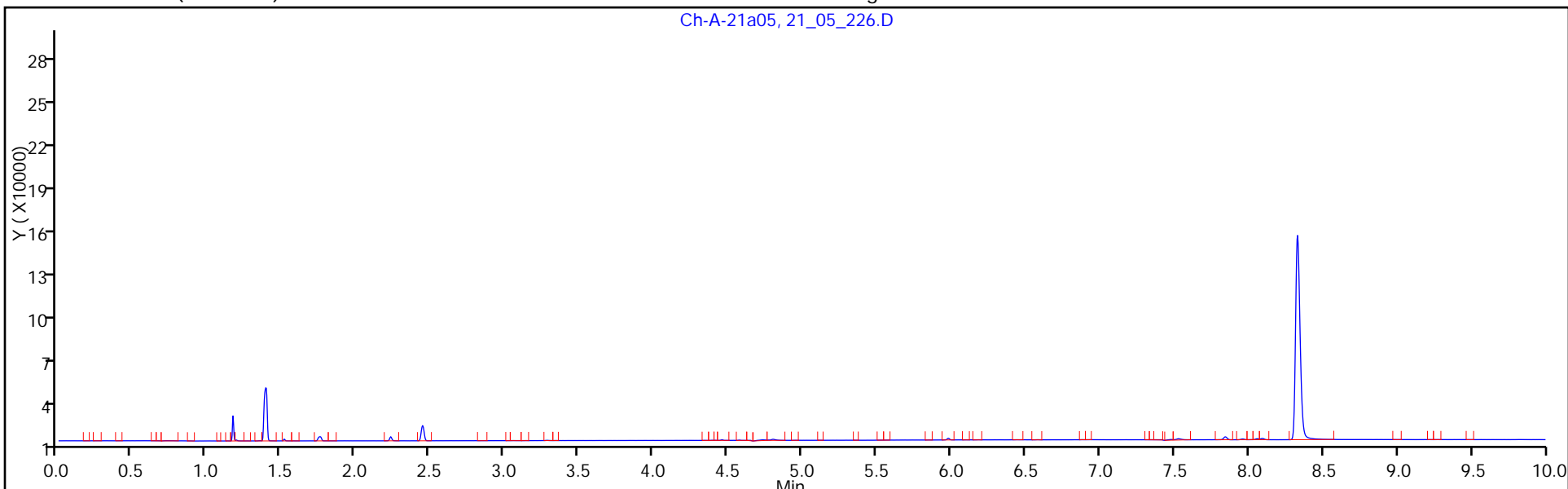
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

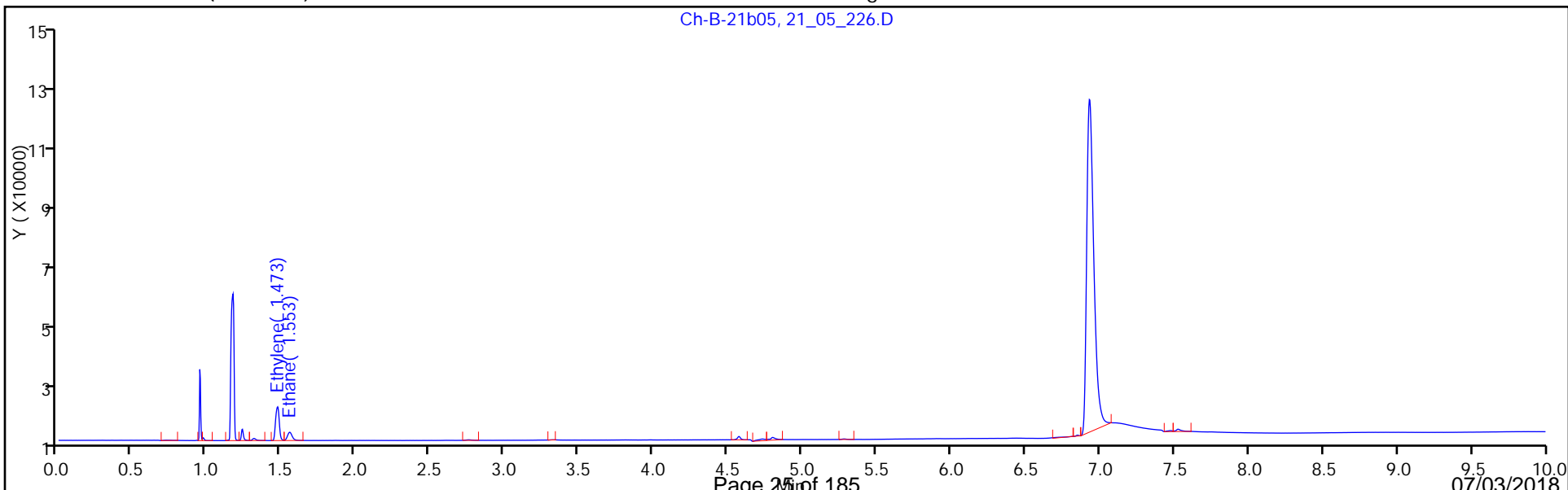
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124							0.9980		0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962							0.9980		0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756							0.9980		0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753							0.9970		0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147							0.9930		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	Lin1	9749	14857	34711	62430	125878	3.88	7.77	19.4	38.8	77.7
		229956	348303	441234	534455		155	233	311	388	
Ethane	Lin1	18234	28234	67776	121900	247603	7.28	14.6	36.4	72.8	146
		450167	686896	868187	+++++		291	437	583	+++++	
Ethene	Lin1	15388	24254	57298	104285	211496	6.80	13.6	34.0	68.0	136
		384441	587597	737510	+++++		272	408	544	+++++	
Propane	Lin1	27946	43073	103995	185489	380021	10.7	21.4	53.4	107	214
		684190	+++++	+++++	+++++		427	+++++	+++++	+++++	
Butane	Lin1	37264	57053	138358	247119	587931	13.9	27.9	69.7	139	279
		1013085	+++++	+++++	+++++		558	+++++	+++++	+++++	

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	
2 Ethane							
1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	
3 Ethylene							
1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	
4 Propane							
1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	
5 Butane							
1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

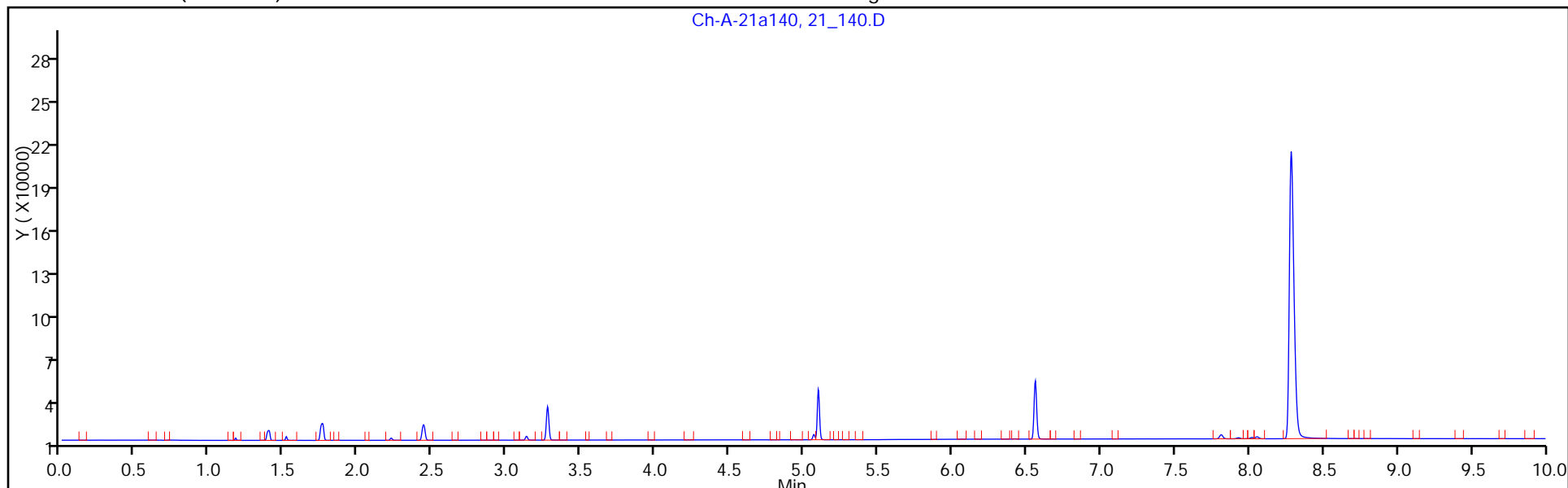
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

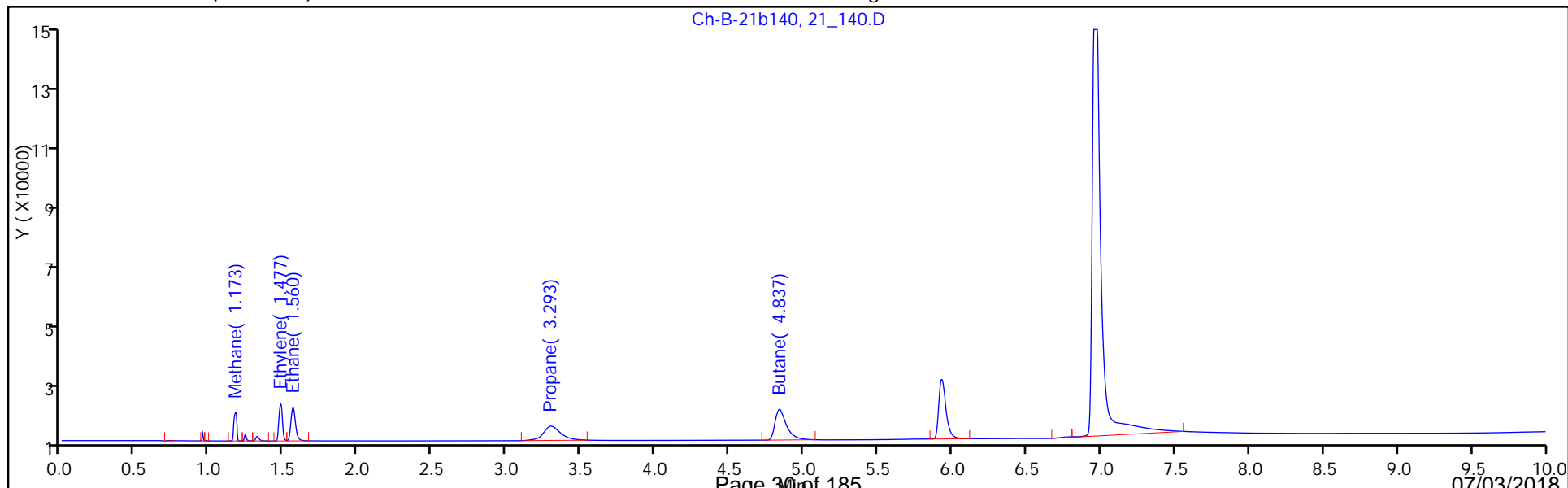
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	
2 Ethane							
1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	
3 Ethylene							
1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	
4 Propane							
1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	
5 Butane							
1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

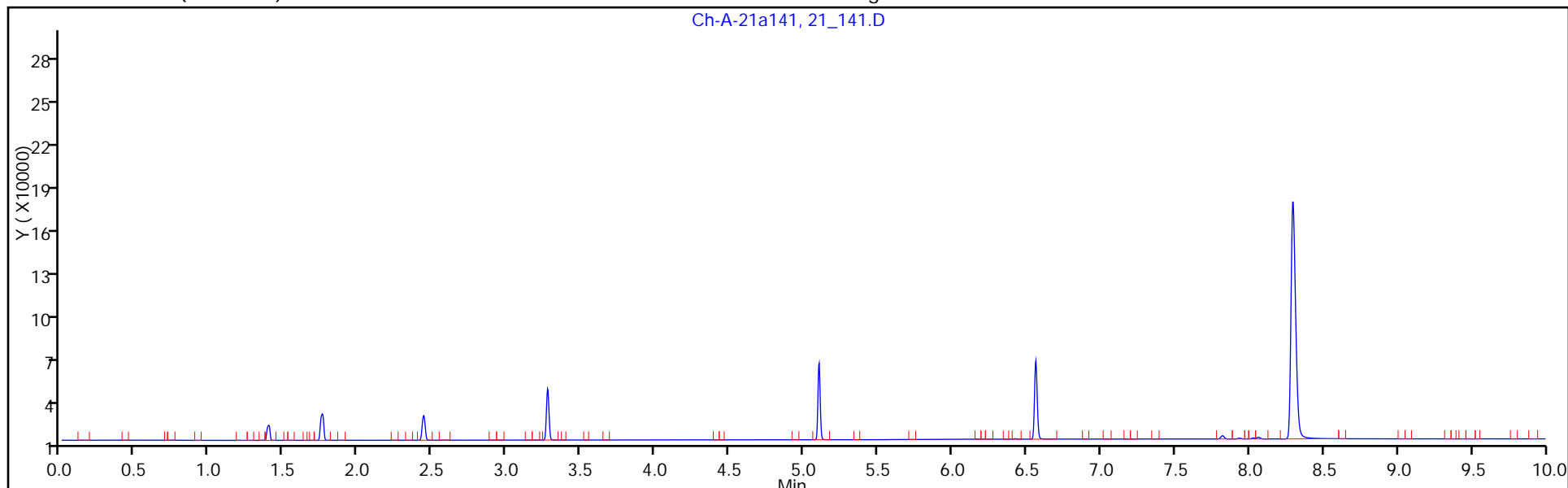
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

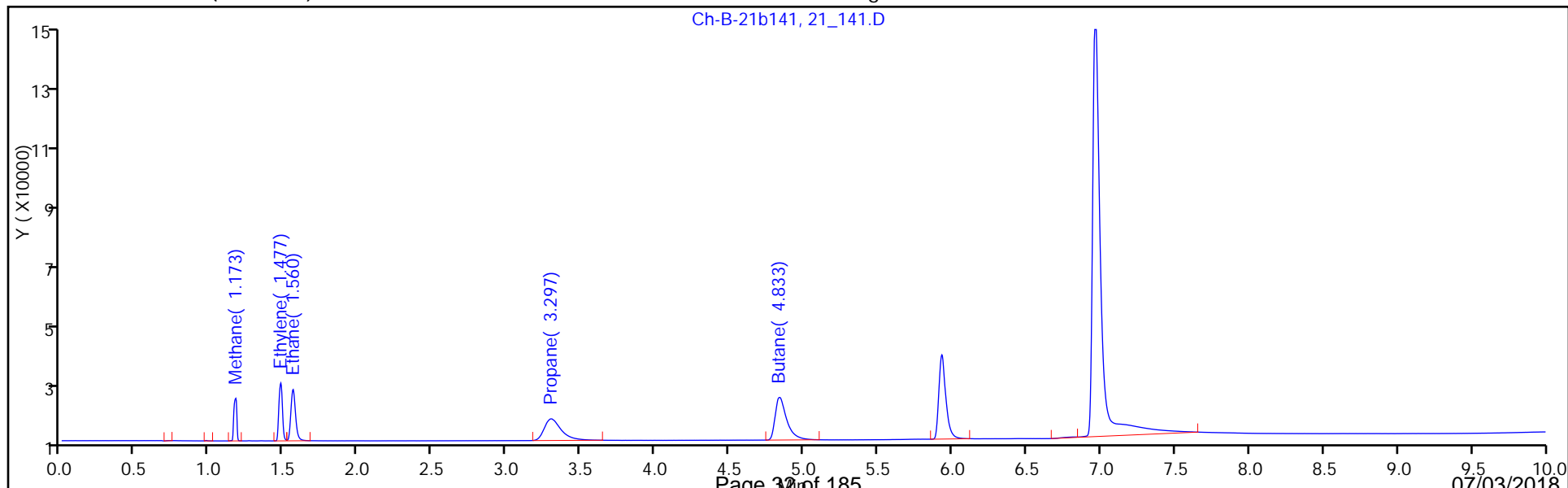
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	
2 Ethane							
1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	
3 Ethylene							
1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	
4 Propane							
1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	
5 Butane							
1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022 Amount Added: 50.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

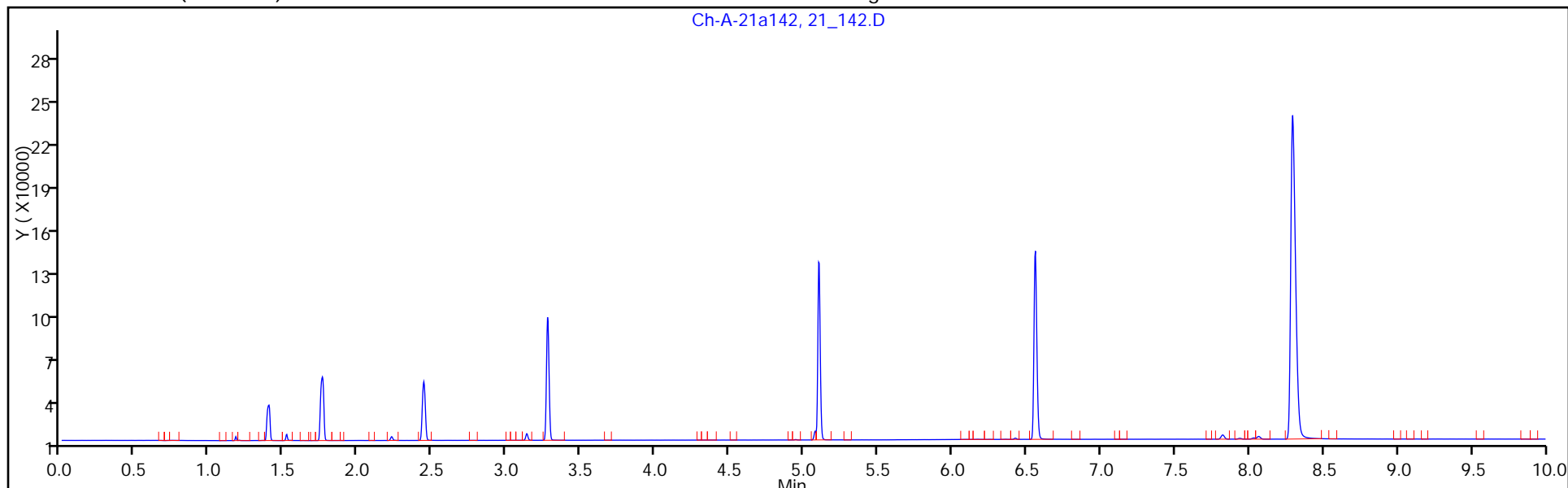
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

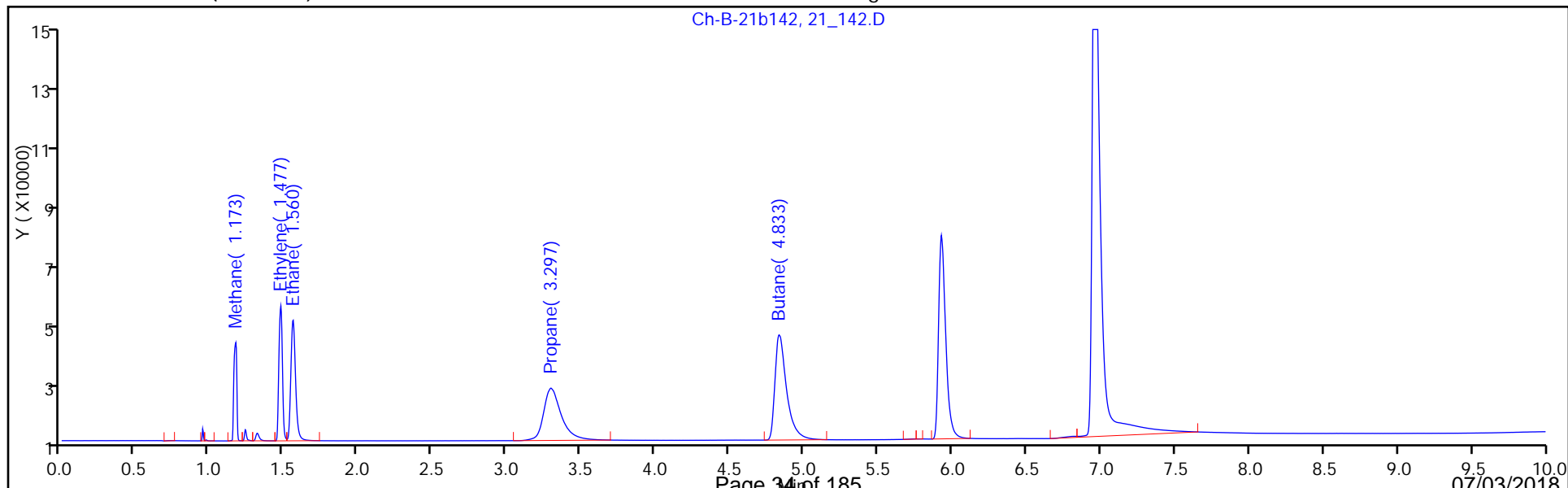
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	
2 Ethane							
1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	
3 Ethylene							
1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	
4 Propane							
1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	
5 Butane							
1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

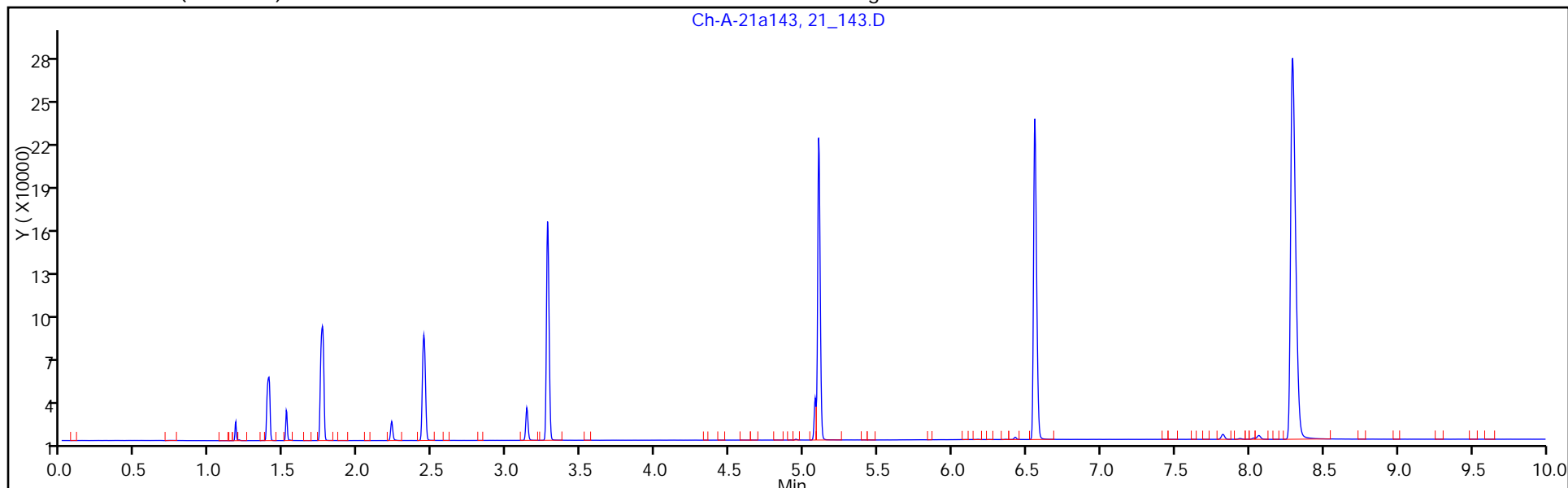
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

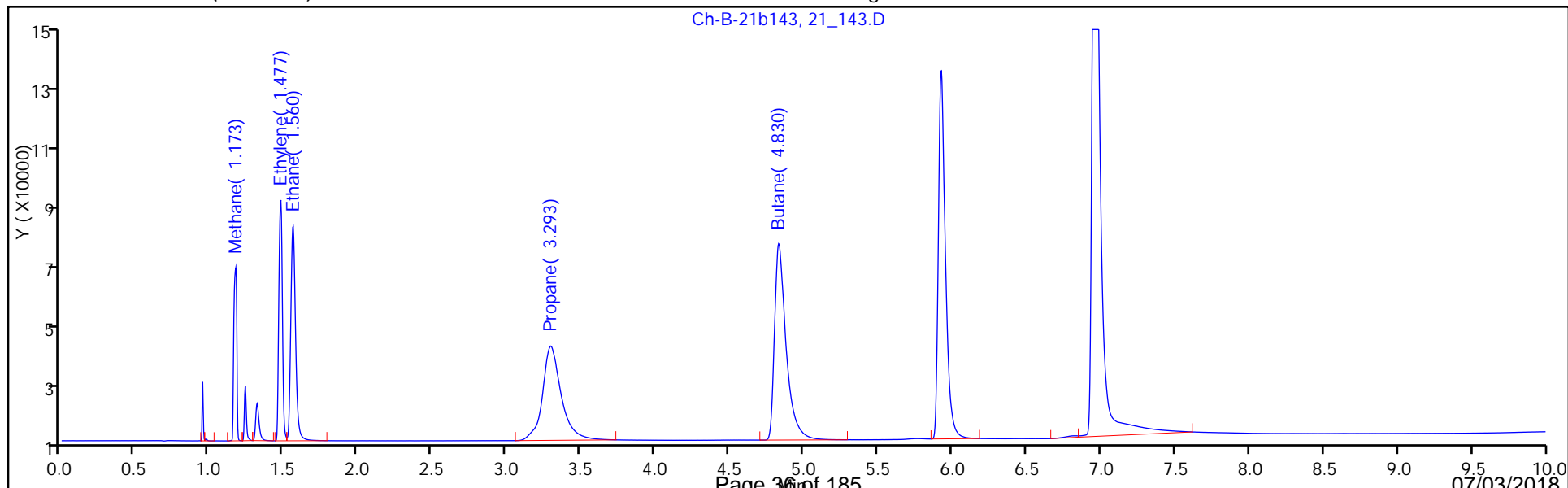
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	
2 Ethane							
1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	
3 Ethylene							
1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	
4 Propane							
1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	
5 Butane							
1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022 Amount Added: 200.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

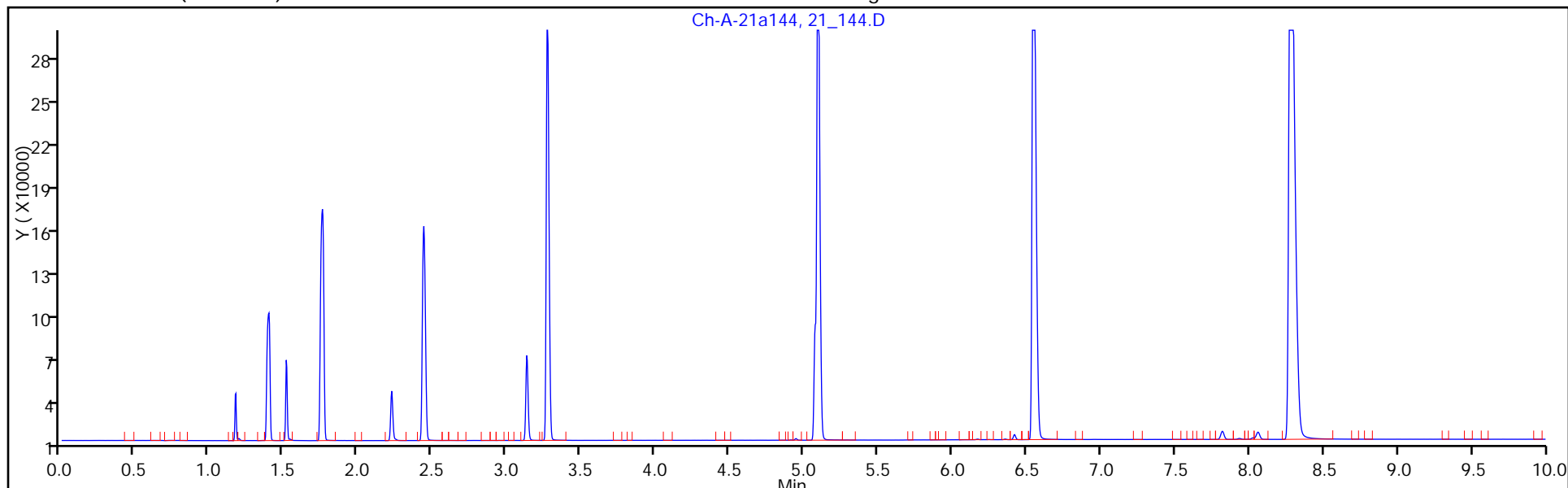
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

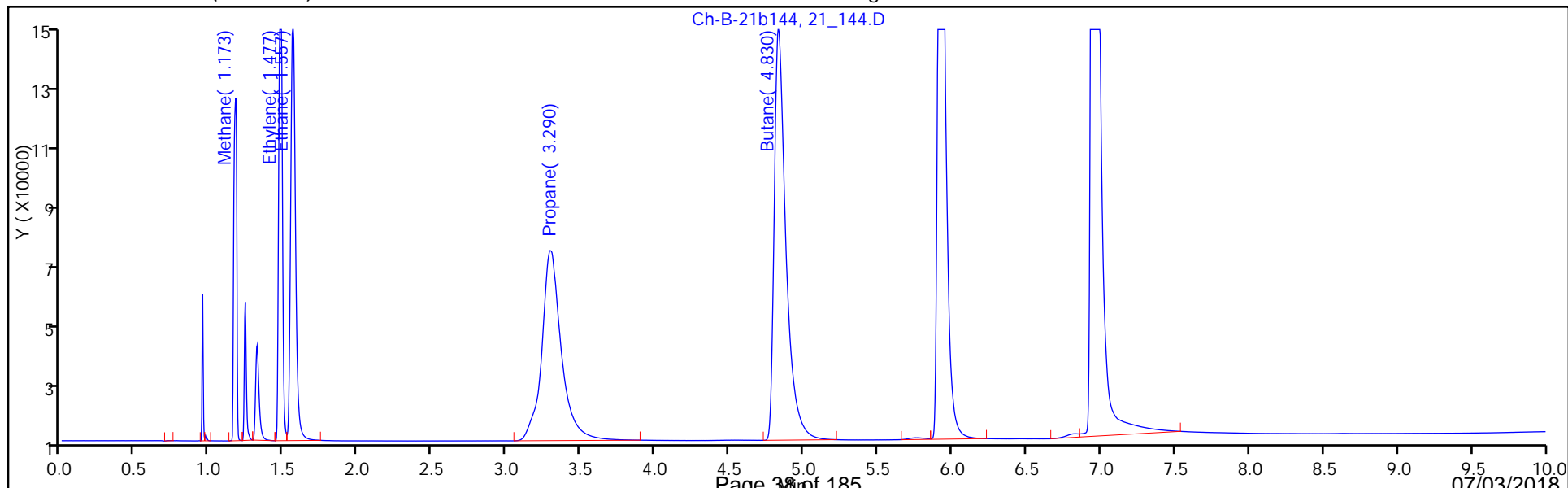
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	
2 Ethane							
1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	
3 Ethylene							
1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	
4 Propane							
1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	
5 Butane							
1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022 Amount Added: 400.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

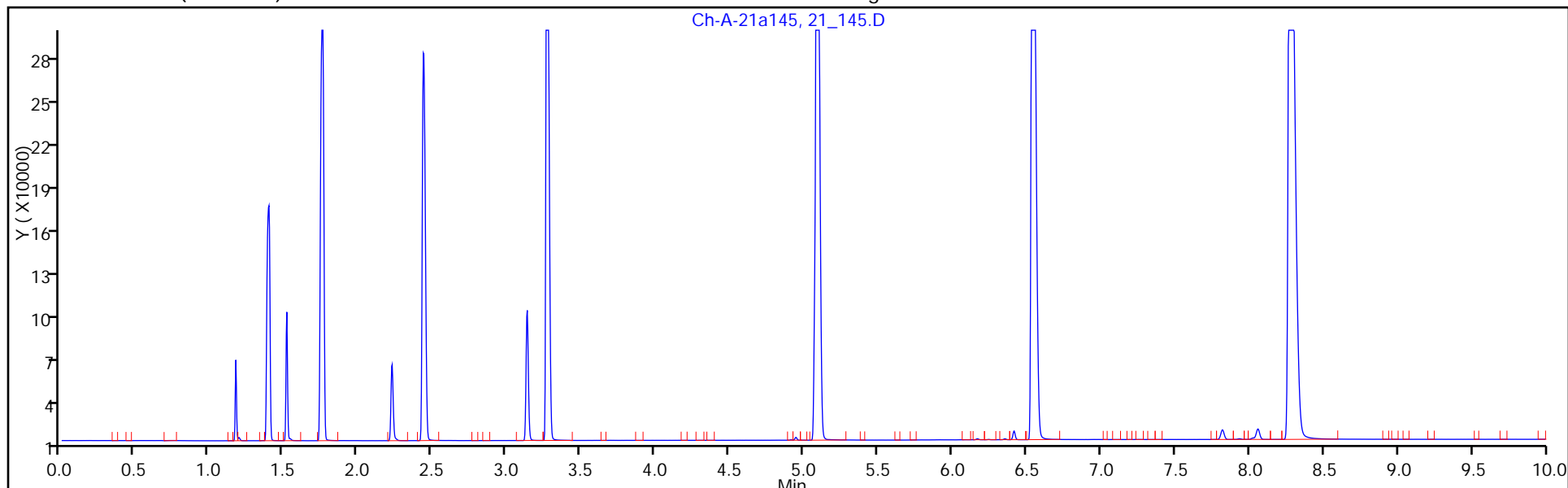
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

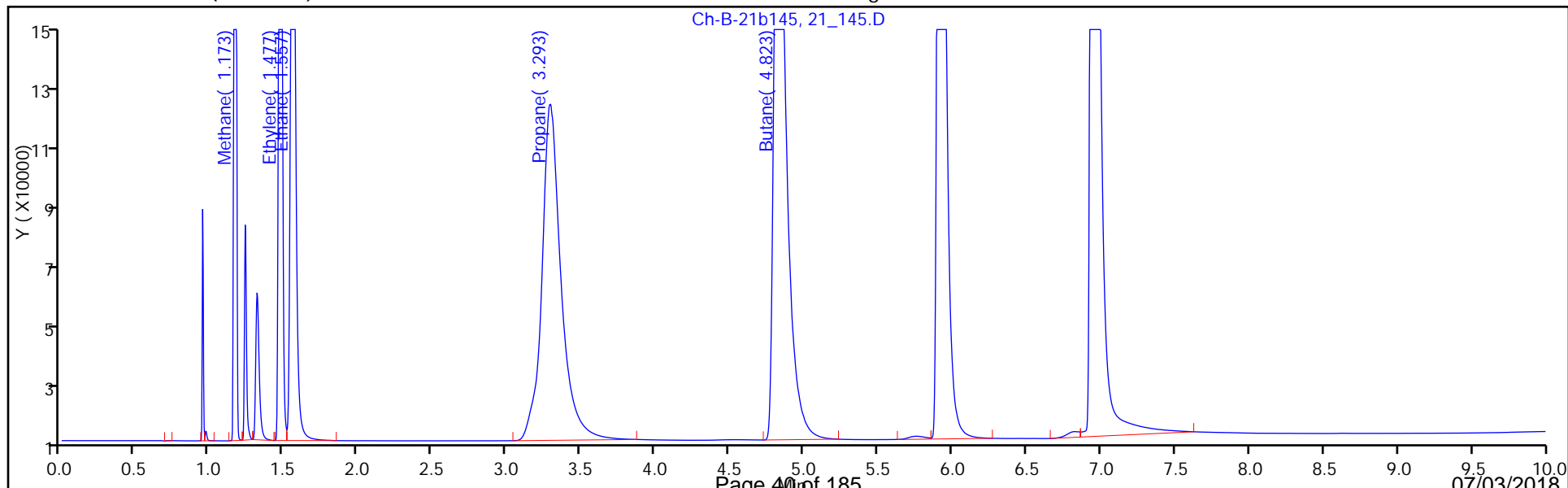
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	

2 Ethane

1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	

3 Ethylene

1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	

4 Propane

1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	

5 Butane

1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022 Amount Added: 600.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

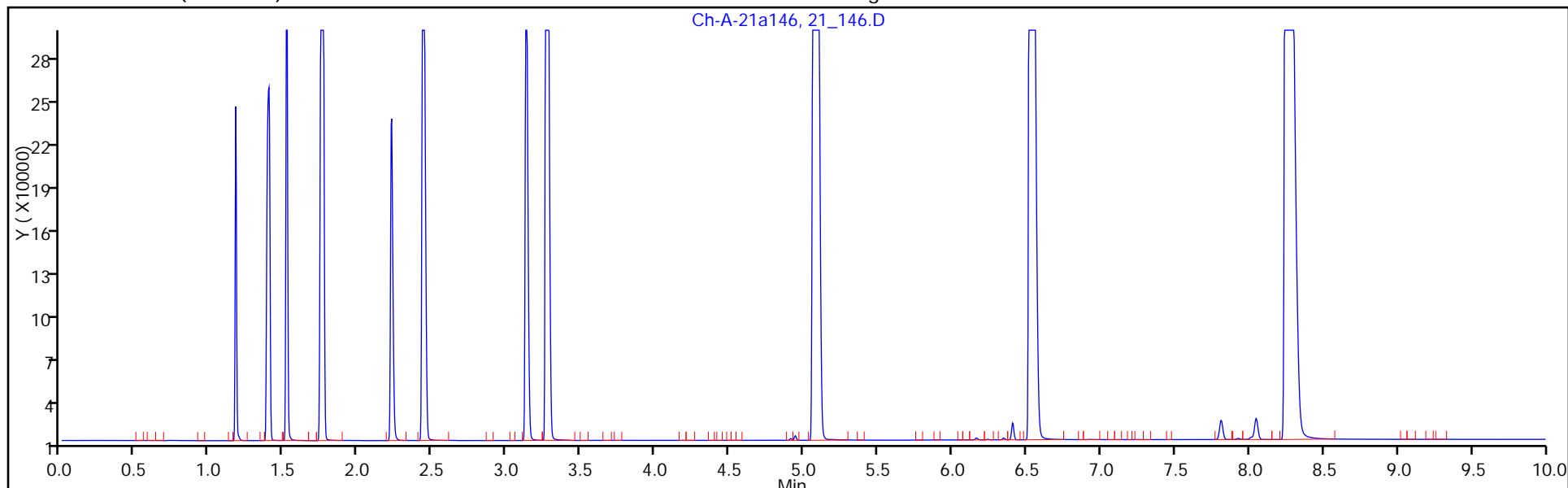
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

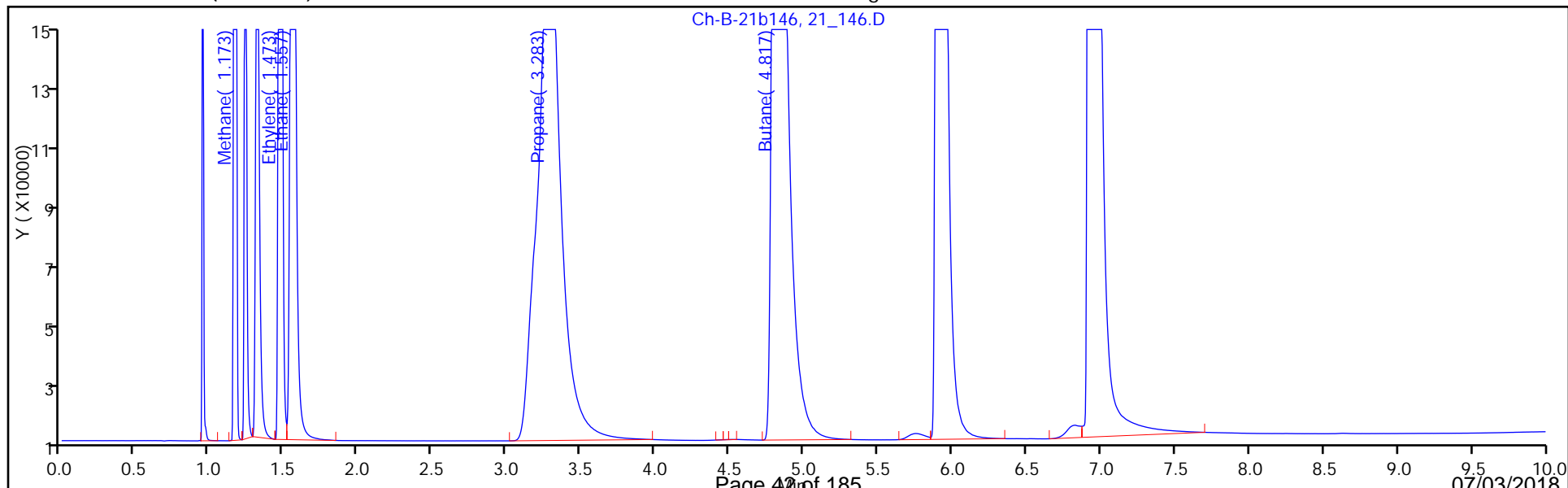
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	441234	310.8	306.7	M
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							
1	1.757	1.757	0.000	868187	582.7	563.1	M
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							
1	2.433	2.440	-0.007	737510	543.9	523.5	M
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 800.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

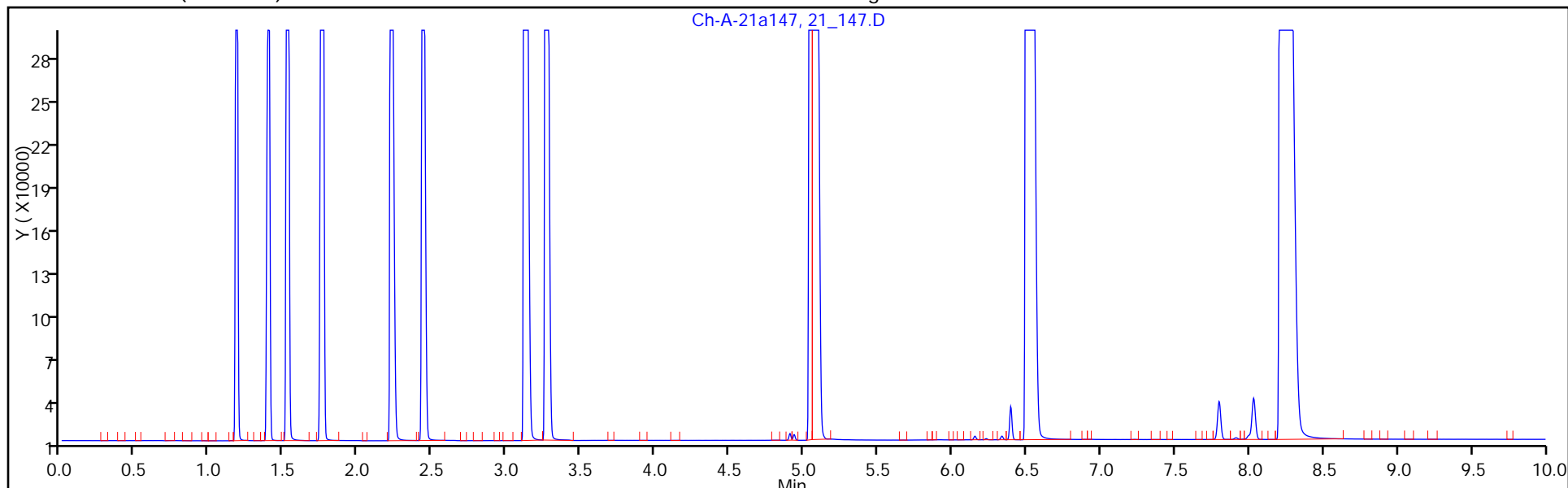
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

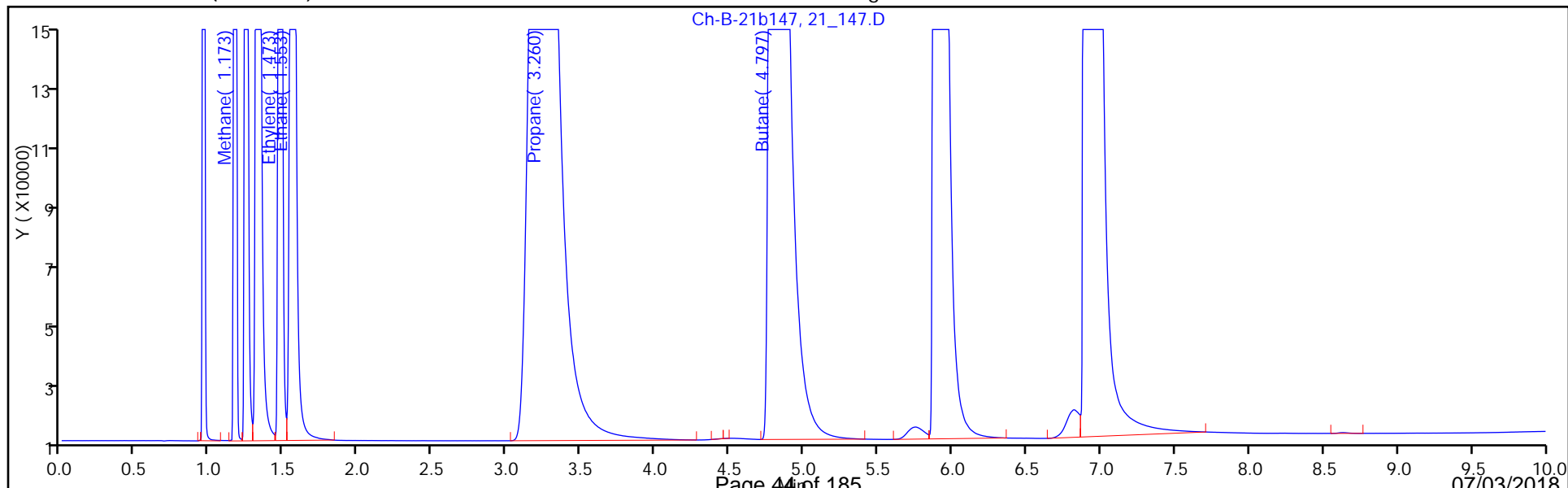
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	

2 Ethane

1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	

3 Ethylene

1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	

4 Propane

1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M

5 Butane

1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022

Amount Added: 1000.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

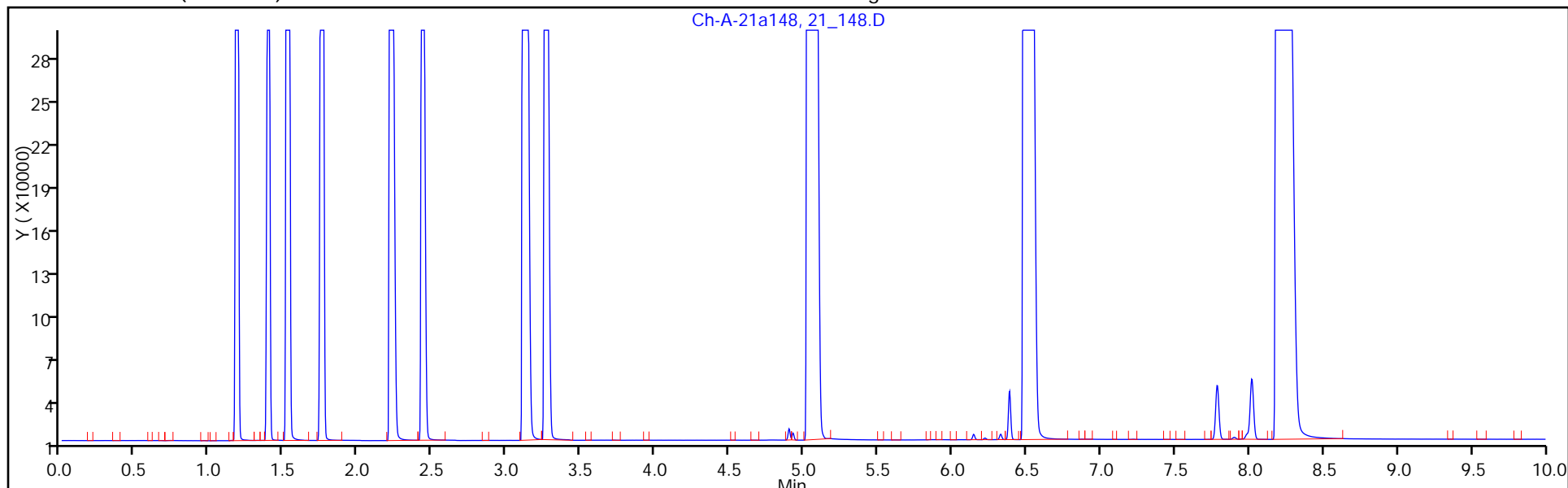
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

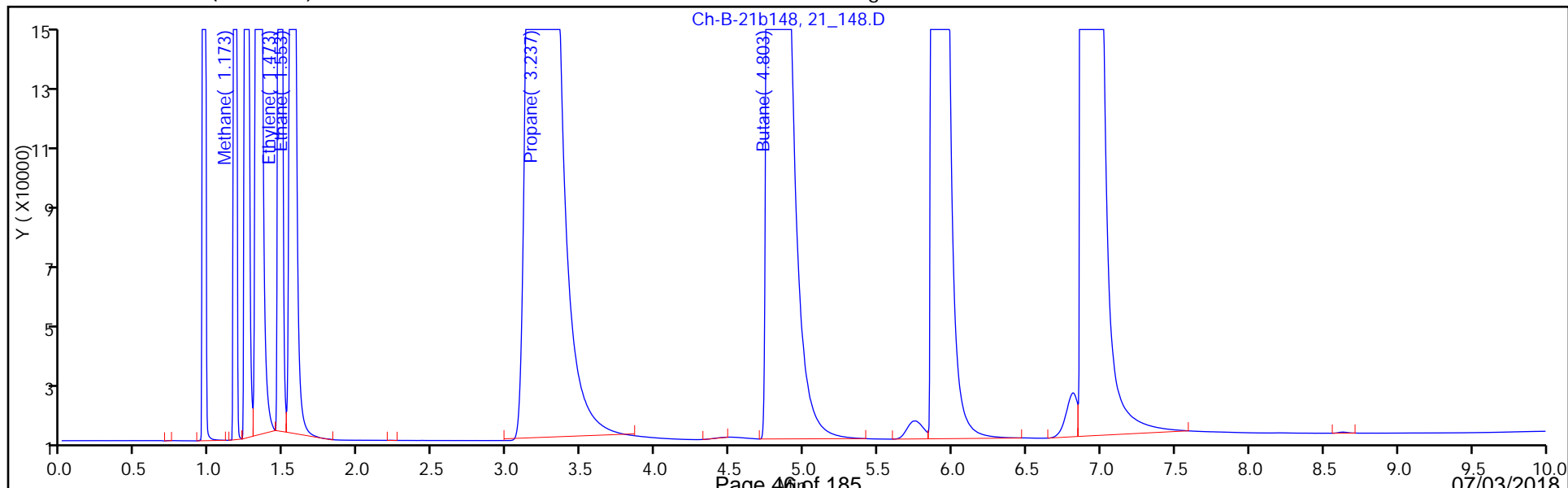
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

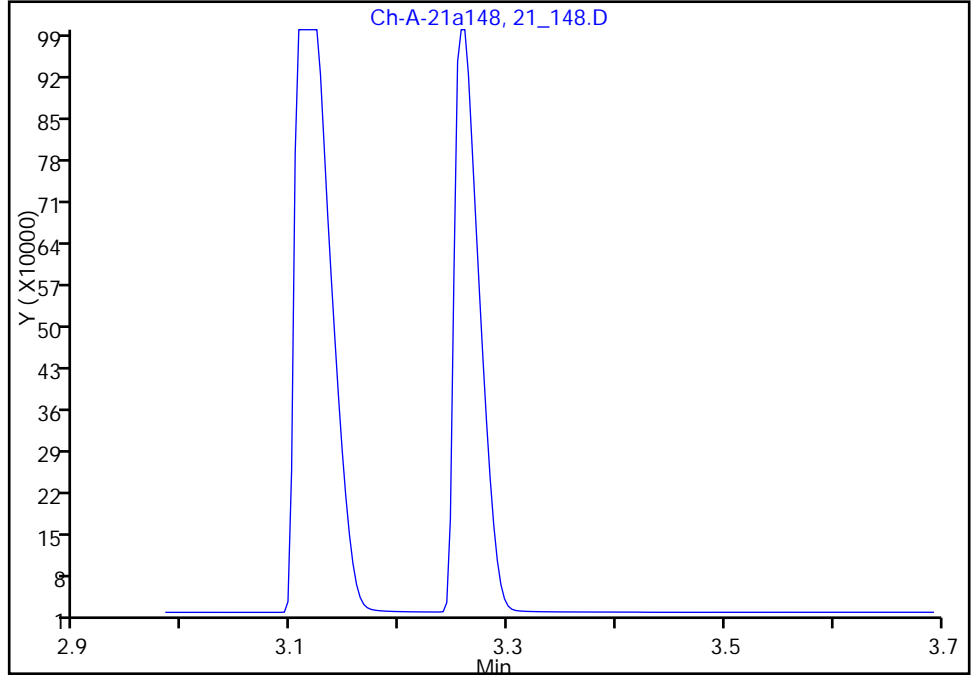
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

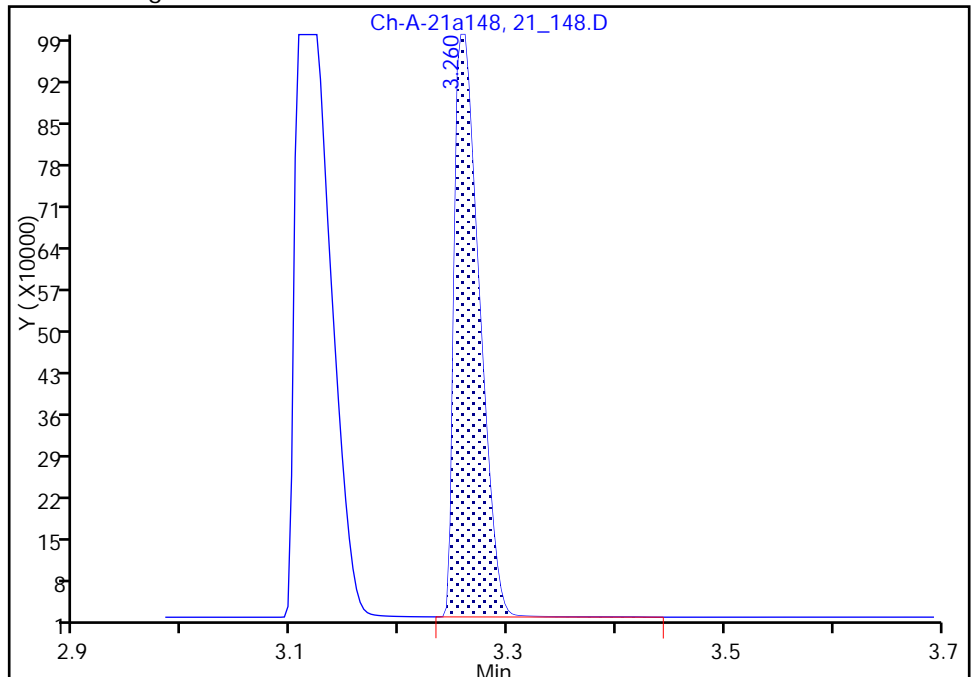
Not Detected
Expected RT: 3.27

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l



Reviewer: gentnert, 12-Sep-2017 11:10:42
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Lab Sample ID: CCV 480-395349/2 Calibration Date: 01/11/2018 07:23
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_05_216.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1725		15.4	15.5	-0.8	15.0
Ethane	Lin1		1791		29.0	29.1	-0.5	15.0
Ethene	Lin1		1592		26.2	27.2	-3.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Lab Sample ID: CCV 480-395349/2 Calibration Date: 01/11/2018 07:23
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_05_216.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.43	2.38	2.48

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_216.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jan-2018 07:23:26 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:37:56 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.393	1.393	0.000	26809	15.5	15.4	
2	1.173	1.173	0.000	35420	15.5	15.8	

2 Ethane

1	1.753	1.753	0.000	52182	29.1	29.0	
2	1.553	1.553	0.000	68440	29.1	29.3	

3 Ethylene

1	2.433	2.433	0.000	43298	27.2	26.2	
2	1.473	1.473	0.000	56308	27.2	26.7	

4 Propane

1	3.270	3.270	0.000	80704	42.7	42.8	
2	3.280	3.280	0.000	115212	42.7	42.6	

5 Butane

1	5.093	5.093	0.000	108157	55.8	53.2	
2	4.817	4.817	0.000	157302	55.8	57.8	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_216.D

Injection Date: 11-Jan-2018 07:23:26

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

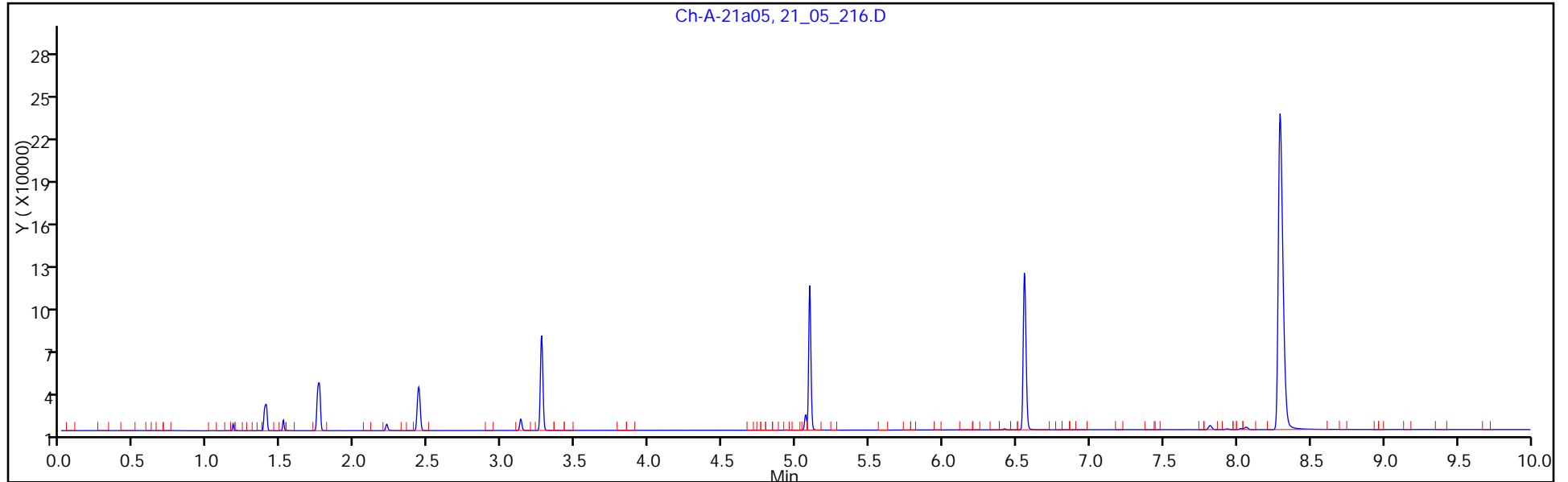
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

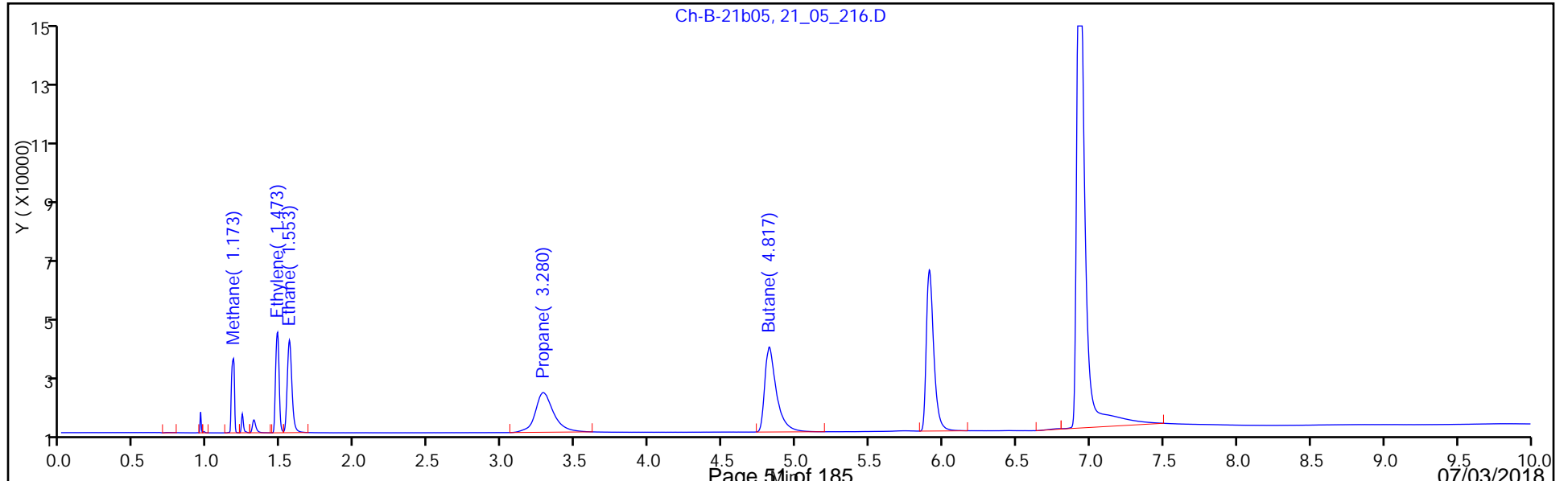
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Lab Sample ID: CCV 480-395349/21 Calibration Date: 01/11/2018 13:23
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53(mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_05_235.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1840		16.7	15.5	7.3	15.0
Ethane	Lin1		1911		31.3	29.1	7.4	15.0
Ethene	Lin1		1718		28.7	27.2	5.6	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Lab Sample ID: CCV 480-395349/21 Calibration Date: 01/11/2018 13:23
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_05_235.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.76	1.71	1.81
Ethene	2.45	2.40	2.50

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_235.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jan-2018 13:23:02 ALS Bottle#: 0 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:38:14 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28590	15.5	16.7	
2	1.173	1.173	0.000	37746	15.5	17.1	
2 Ethane							
1	1.757	1.757	0.000	55672	29.1	31.3	
2	1.553	1.553	0.000	73175	29.1	31.8	
3 Ethylene							
1	2.450	2.450	0.000	46730	27.2	28.7	
2	1.473	1.473	0.000	60609	27.2	29.2	
4 Propane							
1	3.283	3.283	0.000	86187	42.7	46.2	
2	3.280	3.280	0.000	114350	42.7	42.3	
5 Butane							
1	5.107	5.107	0.000	116624	55.8	57.7	
2	4.817	4.817	0.000	158750	55.8	58.4	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_235.D

Injection Date: 11-Jan-2018 13:23:02

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

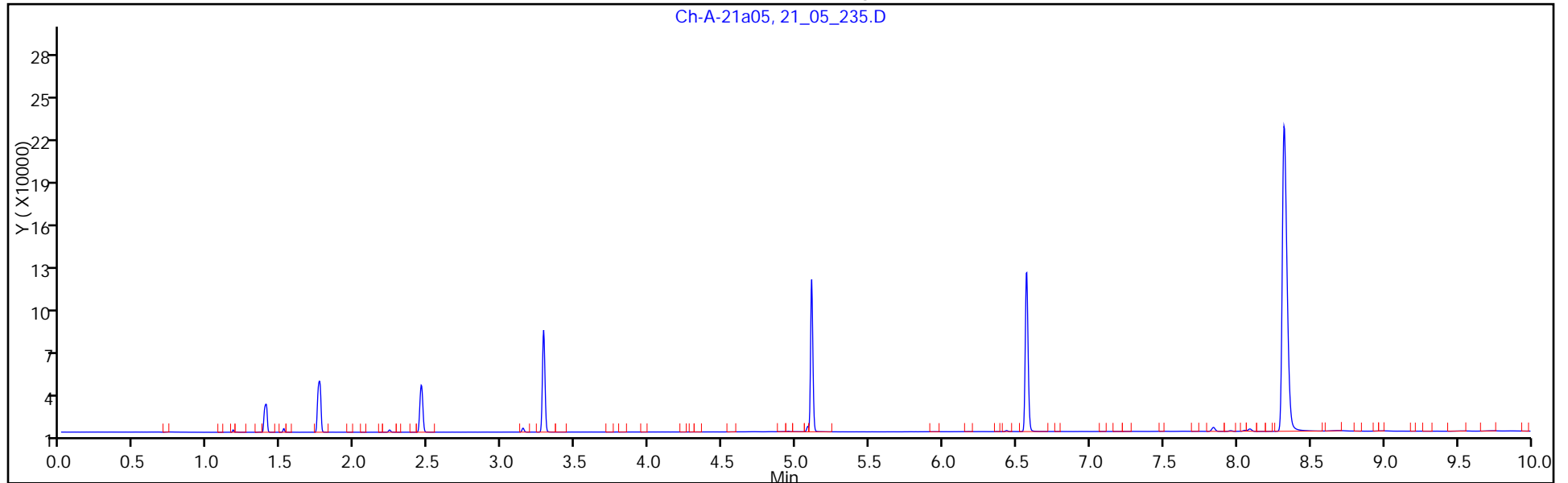
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

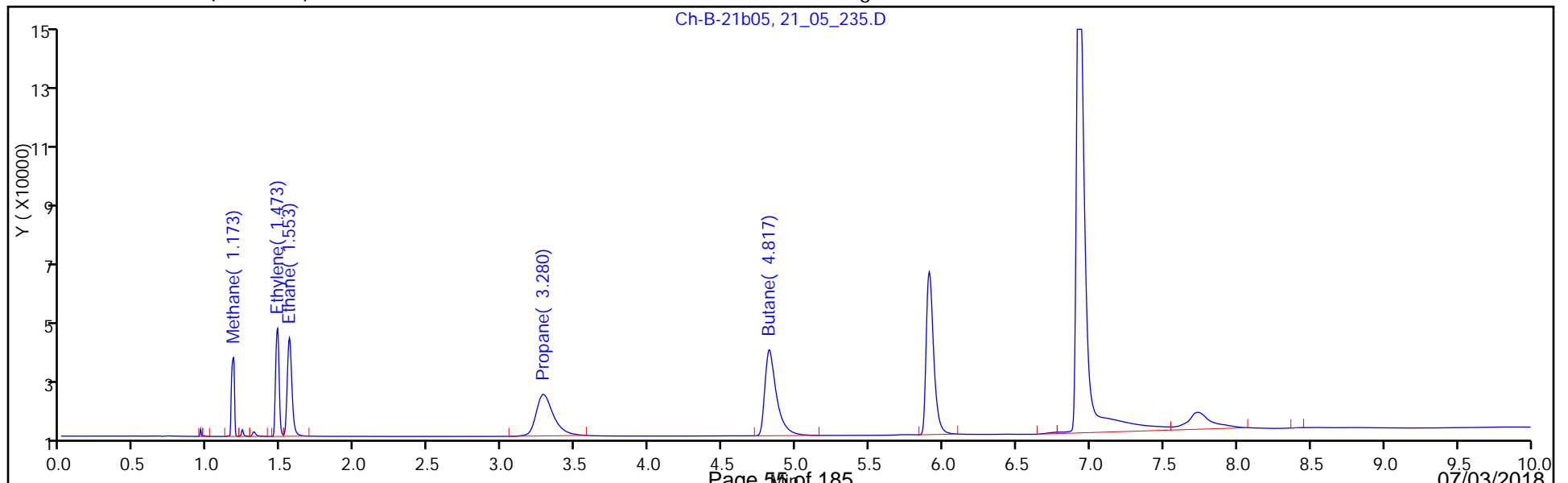
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-395349/3
 Matrix: Water Lab File ID: 21_05_217.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 01/11/2018 07:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_217.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 11-Jan-2018 07:49:00 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:37:56 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.393	1.393	0.000	317		-3.20	
2	1.170	1.173	-0.003	753		-3.91	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_217.D

Injection Date: 11-Jan-2018 07:49:00

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

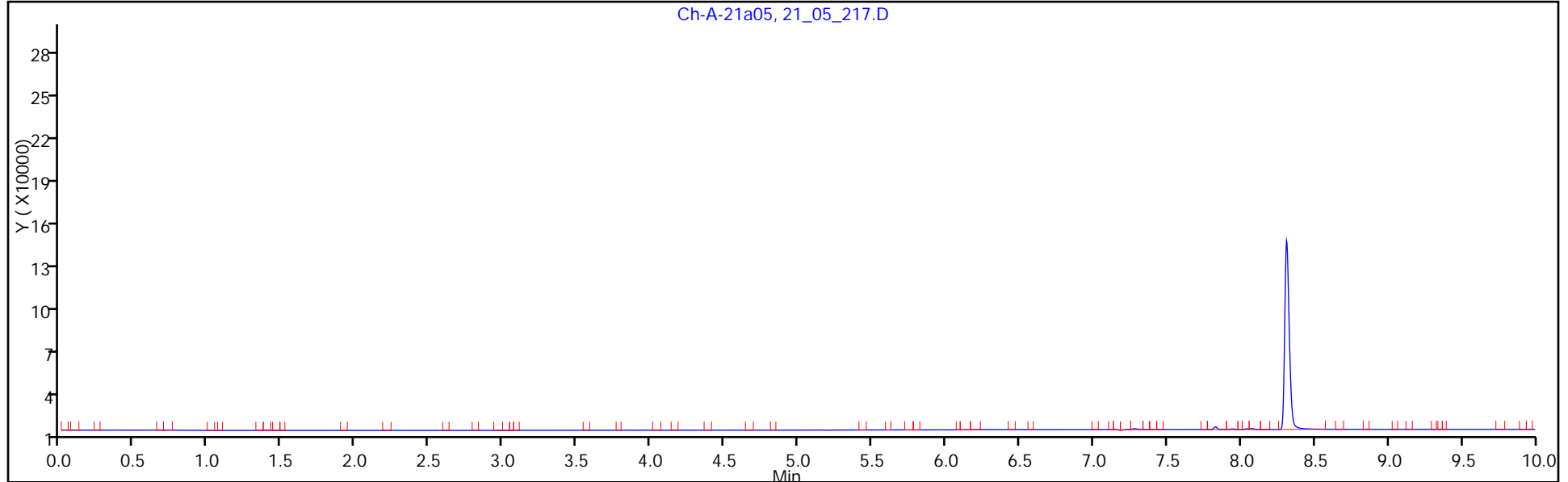
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

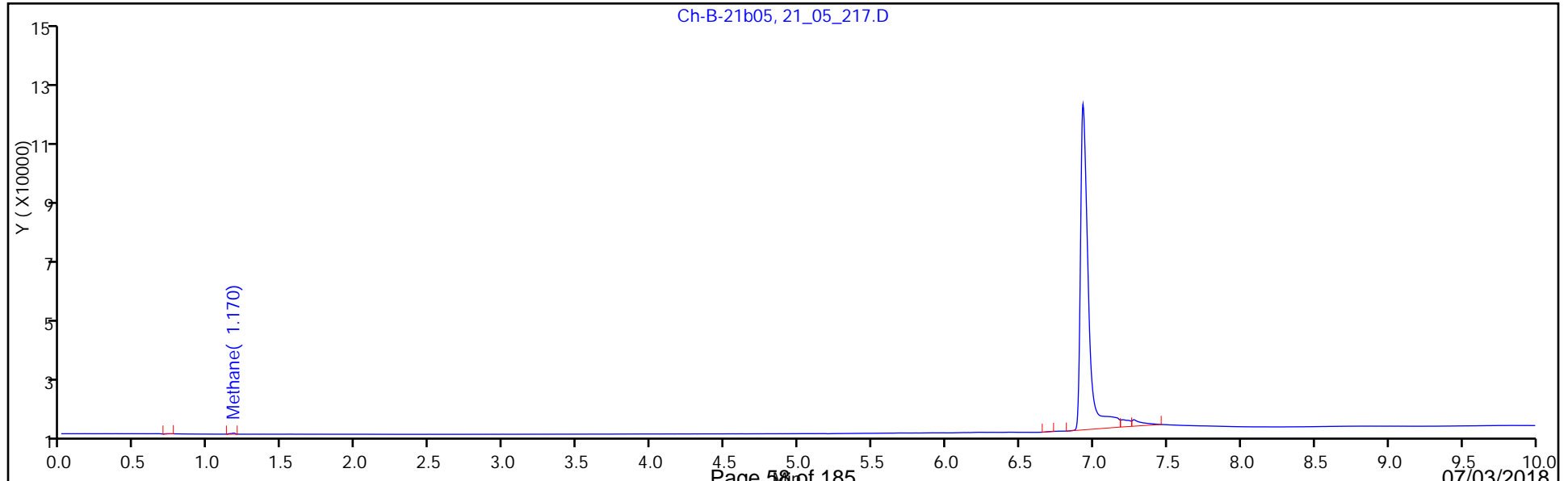
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-395349/4
 Matrix: Water Lab File ID: 21_05_218.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 01/11/2018 08:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	14.8		7.5	1.5
74-85-1	Ethene	13.3		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_218.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Jan-2018 08:06:34 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:37:56 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 11-Jan-2018 08:21:47

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.393	1.393	0.000	15817	7.77	7.69	
2	1.173	1.173	0.000	21385	7.77	7.80	
2 Ethane							
1	1.753	1.753	0.000	30515	14.6	14.8	
2	1.553	1.553	0.000	40554	14.6	14.9	
3 Ethylene							
1	2.437	2.433	0.004	25259	13.6	13.3	
2	1.473	1.473	0.000	33250	13.6	13.3	
4 Propane							
1	3.273	3.270	0.003	46806	21.4	22.0	
2	3.277	3.280	-0.003	70582	21.4	24.2	
5 Butane							
1	5.103	5.093	0.010	63861	27.9	29.4	
2	4.817	4.817	0.000	93552	27.9	31.0	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_218.D

Injection Date: 11-Jan-2018 08:06:34

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

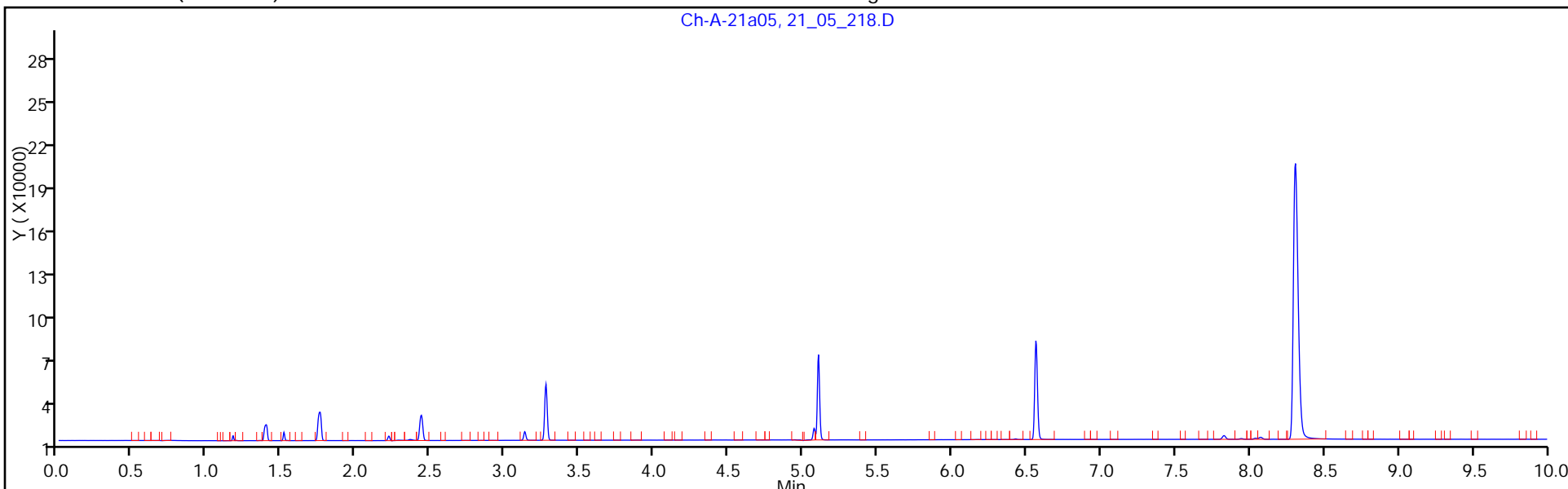
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

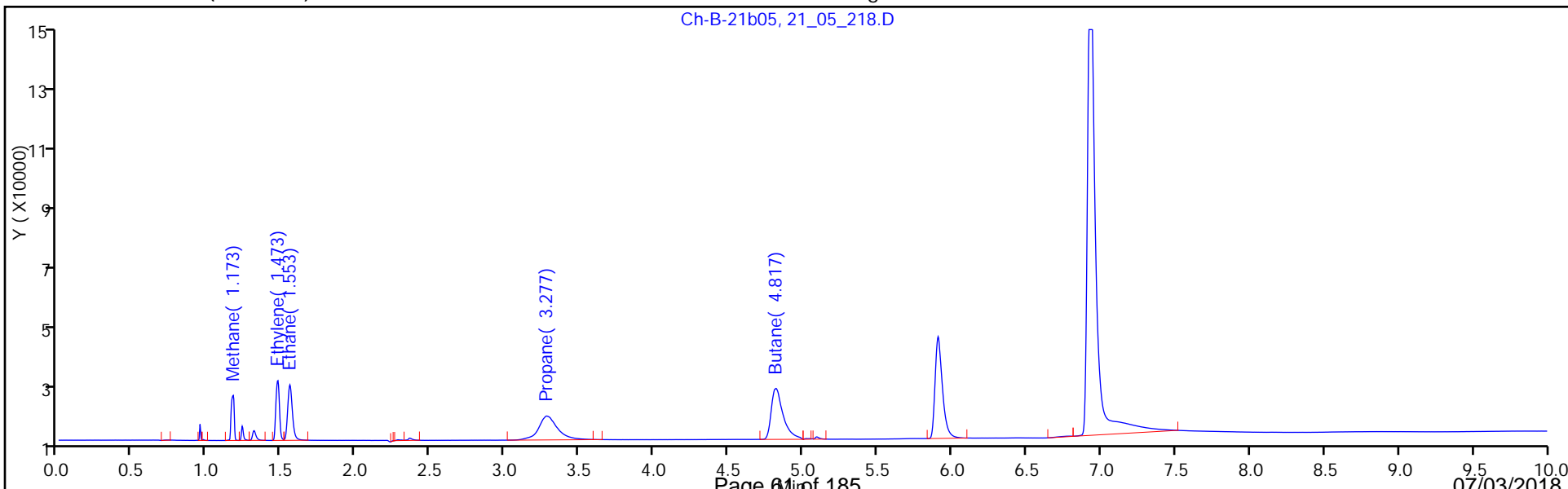
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-395349/5
 Matrix: Water Lab File ID: 21_05_219.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 01/11/2018 08:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	14.4		7.5	1.5
74-85-1	Ethene	12.9		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_219.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 11-Jan-2018 08:24:04 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 11-Jan-2018 13:37:56 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	15584	7.77	7.53	
2	1.173	1.173	0.000	20996	7.77	7.58	
2 Ethane							
1	1.757	1.753	0.004	29953	14.6	14.4	
2	1.553	1.553	0.000	39846	14.6	14.5	
3 Ethylene							
1	2.437	2.433	0.004	24707	13.6	12.9	
2	1.473	1.473	0.000	32436	13.6	12.8	
4 Propane							
1	3.273	3.270	0.003	46091	21.4	21.6	
2	3.273	3.280	-0.007	90591	21.4	32.5	
5 Butane							
1	5.103	5.093	0.010	63785	27.9	29.4	
2	4.810	4.817	-0.007	122236	27.9	43.1	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180111-68502.b\21_05_219.D

Injection Date: 11-Jan-2018 08:24:04

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

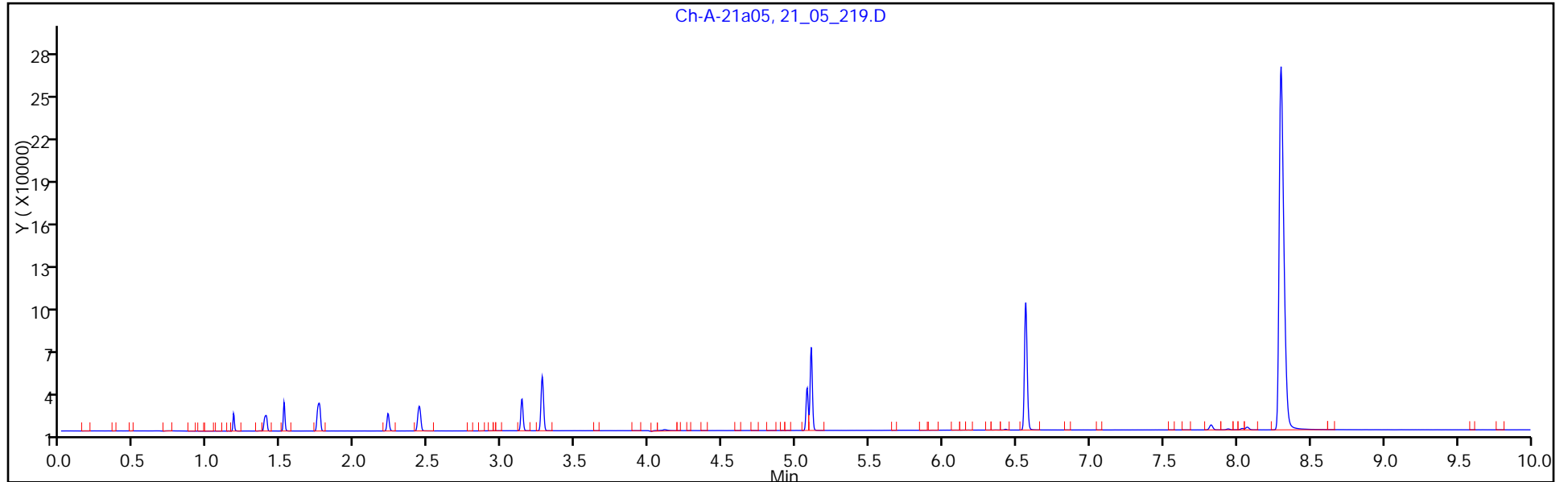
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

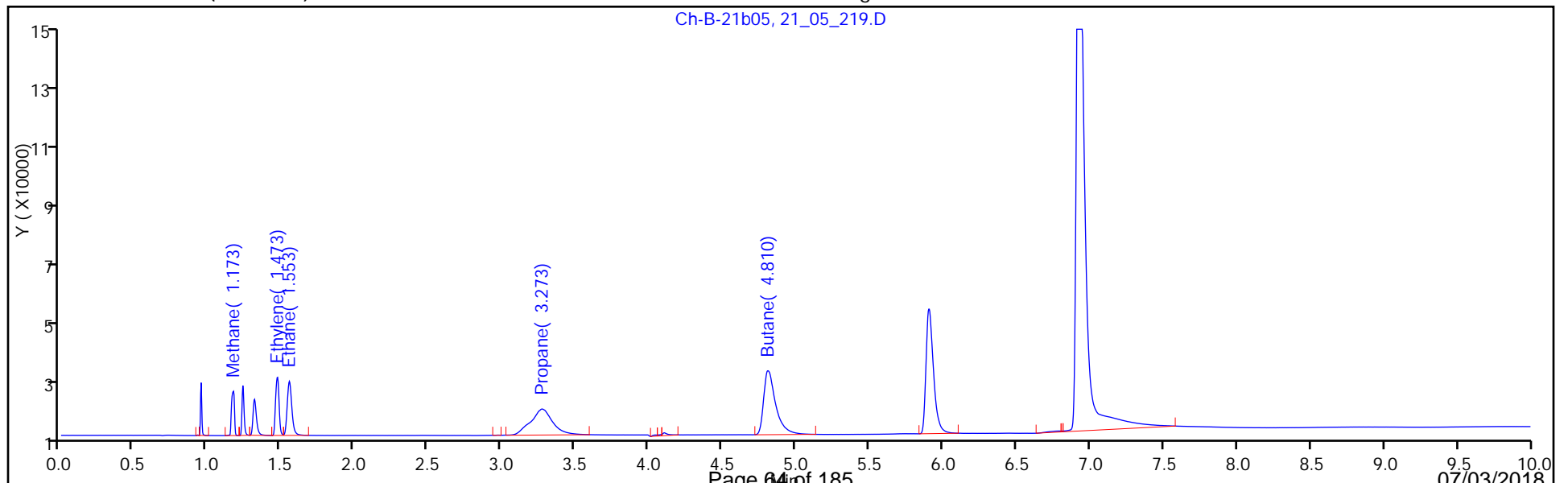
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129878-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 09/12/2017 08:34Analysis Batch Number: 376268End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129878-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 01/11/2018 07:23Analysis Batch Number: 395349End Date: 01/11/2018 13:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-395349/2		01/11/2018 07:23	1	21_05_216.D	Alumina 0.53 (mm)
CCV 480-395349/2		01/11/2018 07:23	1		RTX-U Plot 0.32 (mm)
MB 480-395349/3		01/11/2018 07:49	1	21_05_217.D	Alumina 0.53 (mm)
ZZZZZ		01/11/2018 07:49	1		RTX-U Plot 0.32 (mm)
LCS 480-395349/4		01/11/2018 08:06	1	21_05_218.D	Alumina 0.53 (mm)
ZZZZZ		01/11/2018 08:06	1		RTX-U Plot 0.32 (mm)
LCSD 480-395349/5		01/11/2018 08:24	1	21_05_219.D	Alumina 0.53 (mm)
ZZZZZ		01/11/2018 08:24	1		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 08:49	22		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 08:49	22		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 09:17	22		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 09:17	22		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 09:35	22		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 09:35	22		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 09:53	22		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 09:53	22		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 10:10	22		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 10:10	22		RTX-U Plot 0.32 (mm)
480-129878-1		01/11/2018 10:28	88	21_05_225.D	Alumina 0.53 (mm)
ZZZZZ		01/11/2018 10:28	88		RTX-U Plot 0.32 (mm)
480-129878-3		01/11/2018 10:45	88	21_05_226.D	Alumina 0.53 (mm)
ZZZZZ		01/11/2018 10:45	88		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 11:03	44		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 11:03	44		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 11:20	44		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 11:20	44		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 11:38	44		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 11:38	44		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 11:55	1		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 11:55	1		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 12:13	1		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 12:13	1		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 12:30	44		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 12:30	44		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 12:48	1		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 12:48	1		RTX-U Plot 0.32 (mm)
ZZZZZ		01/11/2018 13:05	1		Alumina 0.53 (mm)
ZZZZZ		01/11/2018 13:05	1		RTX-U Plot 0.32 (mm)
CCV 480-395349/21		01/11/2018 13:23	1	21_05_235.D	Alumina 0.53 (mm)
CCV 480-395349/21		01/11/2018 13:23	1		RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1

SDG No.: _____

Project: Former Emerson Street Landfill Project

Client Sample ID	Lab Sample ID
<u>ML-7I</u>	<u>480-129878-1</u>
<u>ML-7D</u>	<u>480-129878-3</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7I

Lab Sample ID: 480-129878-1

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG ID.: _____

Matrix: Water

Date Sampled: 01/08/2018 11:10

Reporting Basis: WET

Date Received: 01/10/2018 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	558	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7D

Lab Sample ID: 480-129878-3

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG ID.: _____

Matrix: Water

Date Sampled: 01/08/2018 13:55

Reporting Basis: WET

Date Received: 01/10/2018 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	0.051	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	5.0	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	421	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	152	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF F1	1	SM 3500 FE D

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Analyst: CLT Batch Start Date: 01/10/2018

Reporting Units: mg/L Analytical Batch No.: 395257

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:56	Nitrite	1.56	1.50	104	90-110		Nitrite CCV_00790
2	CCB	11:57	Nitrite	ND					
9	CCV	12:04	Nitrite	1.58	1.50	105	90-110		Nitrite CCV_00790
10	CCB	12:06	Nitrite	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 01/15/2018
 Reporting Units: mg/L Analytical Batch No.: 395879

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:30	Sulfide	8.00	7.80	103	90-110		Sulfide CCV_00179
2	CCB	11:30	Sulfide	ND					
13	CCV	11:30	Sulfide	8.00	7.80	103	90-110		Sulfide CCV_00179
14	CCB	11:30	Sulfide	ND					
22	CCV	11:30	Sulfide	8.00	7.80	103	90-110		Sulfide CCV_00179
23	CCB	11:30	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Analyst: CLA Batch Start Date: 01/11/2018
 Reporting Units: mg/L Analytical Batch No.: 395416

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	11:10	Chloride	49.76	50.0	100	90-110		IC_ANION_LCS__0018
			Sulfate	53.54	50.0	107	90-110	5	IC_ANION_LCS__0018
3	CCB	11:18	Chloride	ND					
			Sulfate	ND					
14	CCV	12:48	Chloride	50.34	50.0	101	90-110		IC_ANION_LCS__0018
			Sulfate	53.23	50.0	106	90-110	5	IC_ANION_LCS__0018
15	CCB	12:56	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Analyst: LED Batch Start Date: 01/16/2018
 Reporting Units: mg/L Analytical Batch No.: 396053

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	17:00	Ferrous Iron	1.87	2.00	93	90-110		FE 200ppm ICV 00006
2	CCB	17:00	Ferrous Iron	ND					
13	CCV	17:00	Ferrous Iron	1.87	2.00	93	90-110		FE 200ppm ICV 00006
14	CCB	17:00	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 395257 Date: 01/10/2018 11:58							
353.2	MB 480-395257/3	Nitrite	ND		mg/L as N	0.050	1
Batch ID: 395416 Date: 01/11/2018 11:35							
9056A	MB 480-395416/5	Chloride	ND		mg/L	0.50	1
9056A	MB 480-395416/5	Sulfate	ND		mg/L	2.0	1
Batch ID: 396053 Date: 01/16/2018 17:00							
SM 3500 FE D	MB 480-396053/3	Ferrous Iron	ND		mg/L	0.10	1
Batch ID: 395879 Date: 01/15/2018 11:30							
SM 4500 S2 F	MB 480-395879/3	Sulfide	ND		mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 395257 Date: 01/10/2018 12:03											
353.2	480-129878-3	Nitrite	0.051		mg/L as N						
353.2	480-129878-3	Nitrite	1.06		mg/L as N	1.00	101	90-110			
MS											
Batch ID: 396053 Date: 01/16/2018 17:00											
SM 3500	480-129878-3	Ferrous Iron	ND		mg/L						HF F1
FE D											
SM 3500	480-129878-3	Ferrous Iron	0.243		mg/L	1.00	24	70-130			F1
FE D	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 395257 Date: 01/10/2018 12:02								
353.2	ML-7D	480-129878-3	Nitrite	0.051	mg/L as N			
353.2	ML-7D	480-129878-3 DU	Nitrite	0.0531	mg/L as N	3	20	
Batch ID: 396053 Date: 01/16/2018 17:00								
SM 3500 D	FE ML-7I	480-129878-1	Ferrous Iron	ND	mg/L			
SM 3500 D	FE ML-7I	480-129878-1 DU	Ferrous Iron	ND	mg/L	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 395257 Date: 01/10/2018 11:59											
LCS Source: Nitrite CCV_00790											
353.2	LCS 480-395257/4	Nitrite	1.58		mg/L as N	1.50	105	90-110			
Batch ID: 395416 Date: 01/11/2018 11:27											
LCS Source: IC_ANION_LCS__00185											
9056A	LCS 480-395416/4	Chloride	50.00		mg/L	50.0	100	90-110			
9056A	LCS 480-395416/4	Sulfate	53.88		mg/L	50.0	108	90-110			
Batch ID: 396053 Date: 01/16/2018 17:00											
LCS Source: FE 200ppm ICV_00006											
SM 3500 FE D	LCS 480-396053/4	Ferrous Iron	1.86		mg/L	2.00	93	90-110			
Batch ID: 395879 Date: 01/15/2018 11:30											
LCS Source: Sulfide LCS_00180											
SM 4500 S2 F	LCS 480-395879/4	Sulfide	7.20		mg/L	7.40	97	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrite		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrite		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F MDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.67

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F XMDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		1	0.67

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-129878-1

SDG Number: _____

Matrix: Water

Instrument ID: IC-2

Method: 9056A

MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: IC-2
Method: 9056A XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-129878-1

SDG Number: _____

Matrix: Water

Instrument ID: Genysis Spec3

Method: SM 3500 FE D

MDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.075

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-129878-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec3
Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 01/10/2018 11:56 End Date: 01/10/2018 12:06

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 2 - N															
CCV 480-395257/1	1		11:56	X															
CCB 480-395257/2	1		11:57	X															
MB 480-395257/3	1	T	11:58	X															
LCS 480-395257/4	1	T	11:59	X															
480-129878-1	1	T	12:00	X															
480-129878-3	1	T	12:01	X															
480-129878-3 DU	1	T	12:02	X															
480-129878-3 MS	1	T	12:03	X															
CCV 480-395257/9	1		12:04	X															
CCB 480-395257/10	1		12:06	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 01/10/2018 12:00 End Date: 01/10/2018 12:01

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
480-129878-1	1	T	12:00	X															
480-129878-3	1	T	12:01	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Instrument ID: IC-2 Method: 9056A

Start Date: 01/11/2018 11:10 End Date: 01/11/2018 17:49

Lab Sample ID	D / F	T y p e	Time	Analytes																
				C L -	S O 4															
CCV 480-395416/2	1		11:10	X	X															
CCB 480-395416/3	1		11:18	X	X															
LCS 480-395416/4	1	T	11:27	X	X															
MB 480-395416/5	1	T	11:35	X	X															
480-129878-1	10	T	11:43	X	X															
480-129878-3	10	T	11:51	X	X															
ZZZZZ			12:24																	
ZZZZZ			12:32																	
ZZZZZ			12:40																	
CCV 480-395416/14	1		12:48	X	X															
CCB 480-395416/15	1		12:56	X	X															
CCV 480-395416/26			14:26																	
CCB 480-395416/27			14:34																	
ZZZZZ			14:42																	
ZZZZZ			14:50																	
CCV 480-395416/38			16:03																	
CCB 480-395416/39			16:12																	
CCV 480-395416/50			17:41																	
CCB 480-395416/51			17:49																	

Prep Types
T = Total/NA

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO ₃ /NO ₂ 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	3878175	Exp. 05/31/2018
Nitrite 1000mg/L STD (CAL)	3847174	Exp. 01/31/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4234660	Exp. 03/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4450121	Exp. 01/17/2018
Nitrite Int STD(MS)	4450122	Exp. 01/17/2018
Nitrate 1.5ppm CCV/ICV/LCS	4449401	Exp. 01/10/2018
Nitrite 1.5ppm CCV/ICV/LCS	4449402	Exp. 01/10/2018
Ammonium Chloride Buffer	4440510	Exp. 01/27/2018
Color Reagent	4428221	Exp. 01/16/2018
1:4 Ammonium Hydroxide	4264855	Exp. 05/09/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
 (1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD **Control Limits** <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
 .5ppm –5ml of 1.0ppm up to 10ml with DI water
 .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
 .05 ppm – 5ml of .2ppm up 20ml With DI water
 ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
 CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
 .5ppm –5ml of 1.0ppm up to 10ml with DI water
 .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
 .05 ppm – 5ml of .2ppm up 20ml With DI water
 ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
 CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples CA 1-10-18

Author: BufLachat3

Date : 1/10/2018

Original Run Filename: OM_1-10-2018_11-32-45AM.OMN Created: 1/10/2018 11:32:45 AM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_1-10-2018_11-32-45AM.OMN Last Modified: 1/10/2018 11:52:15 AM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.51	4.64	0.347	1/10/2018@11:33:30 AM	
CCV	1	S9	1.51	4.63	0.345	1/10/2018@11:34:38 AM	
		Known Conc:	1.50				
		Calibration:	Table/Fig.: 1				
CCB	1	S10	-3.67e-3	-0.108	-5.68e-3	1/10/2018@11:35:46 AM	
		Known Conc:	0.00				
MB	1	S10	6.03e-4	-0.0943	-4.97e-3	1/10/2018@11:36:55 AM	
		Known Conc:	0.00				
LCS	1	S9	1.52	4.66	0.343	1/10/2018@11:38:03 AM	
		Known Conc:	1.50				
480-129878-c-1	1	1	0.0159	-0.0463	-3.48e-3	1/10/2018@11:39:12 AM	
480-129878-c-3	1	2	4.88	15.1	1.13	1/10/2018@11:40:22 AM	
DU 480-129878-c-3	1	3	4.93	15.3	1.14	1/10/2018@11:41:31 AM	
MS 480-129878-c-3	1	4	5.84	18.2	1.36	1/10/2018@11:42:39 AM	
CCV	1	S9	1.50	4.62	0.343	1/10/2018@11:43:47 AM	
		Known Conc:	1.50				
CCB	1	S10	2.69e-3	-0.0878	-4.66e-3	1/10/2018@11:44:56 AM	
		Known Conc:	0.00				
480-129878-c-3 ^{A5}	1	9	1.01	3.06	0.224	1/10/2018@11:46:04 AM	
480-129878-c-3 ^{A5} DU	1	10	1.03	3.14	0.232	1/10/2018@11:47:12 AM	
480-129878-c-3 ^{A5} MS	1	11	2.13	6.57	0.490	1/10/2018@11:48:20 AM	
CCV	1	S9	1.51	4.64	0.346	1/10/2018@11:49:29 AM	
		Known Conc:	1.50				
CCB	1	S10	9.00e-4	-0.0934	-5.01e-3	1/10/2018@11:50:37 AM	
		Known Conc:	0.00				

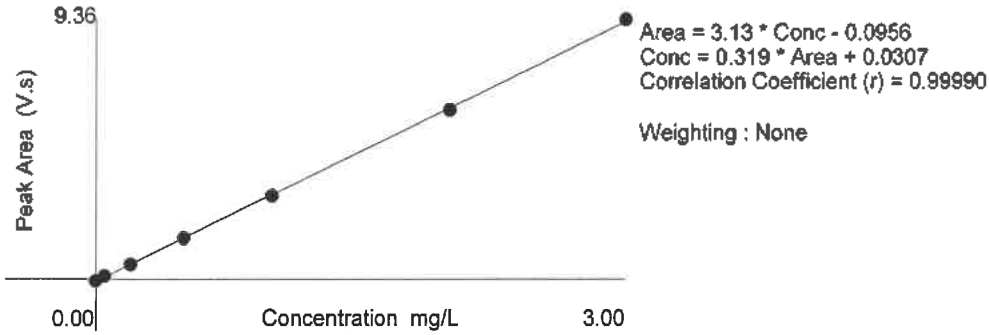
Analyte Properties Table for : OM_1-10-2018_11-32-45AM.OMN

Property	Channel 2 Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.36	0.715	0.0	-0.7	3.02	1/9/2018	4:08:15 PM
2	2.00	1	6.09	0.466	0.0	1.3	1.98	1/9/2018	4:09:24 PM
3	1.00	1	2.99	0.228	0.0	1.5	0.986	1/9/2018	4:10:32 PM
4	0.500	1	1.46	0.111	0.0	0.4	0.498	1/9/2018	4:11:41 PM
5	0.200	1	0.522	0.0400	0.0	1.7	0.197	1/9/2018	4:12:50 PM
6	0.0500	1	0.107	7.51e-3	0.0	-75.3	0.0648	1/9/2018	4:14:00 PM
7	0.00	1	-0.0722	-4.46e-3			7.66e-3	1/9/2018	4:15:08 PM

Figure : 1 (Nitrate/Nitrite)



Author: BufLachat3

Date : 1/10/2018

Original Run Filename: OM_1-10-2018_11-55-00AM.OMN Created: 1/10/2018 11:55:00 AM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_1-10-2018_11-55-00AM.OMN Last Modified: 1/10/2018 12:08:12 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.56	5.01	0.459	1/10/2018@11:56:05 AM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-0.0200	-0.0935	-6.82e-3	1/10/2018@11:57:12 AM	
		Known Conc:	100				
MB	1	S10	-0.0139	-0.0737	-5.33e-3	1/10/2018@11:58:18 AM	
		Known Conc:	100				
LCS	1	S11	1.58	5.07	0.467	1/10/2018@11:59:24 AM	
		Known Conc:	100				
480-129878-c-1	1	1	-0.0165	-0.0821	-6.53e-3	1/10/2018@12:00:31 PM	
480-129878-c-3	1	2	0.0514	0.138	0.0111	1/10/2018@12:01:38 PM	
DU 480-129878-c-3	1	3	0.0531	0.143	0.0109	1/10/2018@12:02:45 PM	
MS 480-129878-c-3	1	4	1.06	3.39	0.307	1/10/2018@12:03:52 PM	
CCV	1	S11	1.58	5.08	0.463	1/10/2018@12:04:58 PM	
		Known Conc:	100				
CCB	1	S10	-0.0164	-0.0817	-4.41e-3	1/10/2018@12:06:05 PM	
		Known Conc:	100				

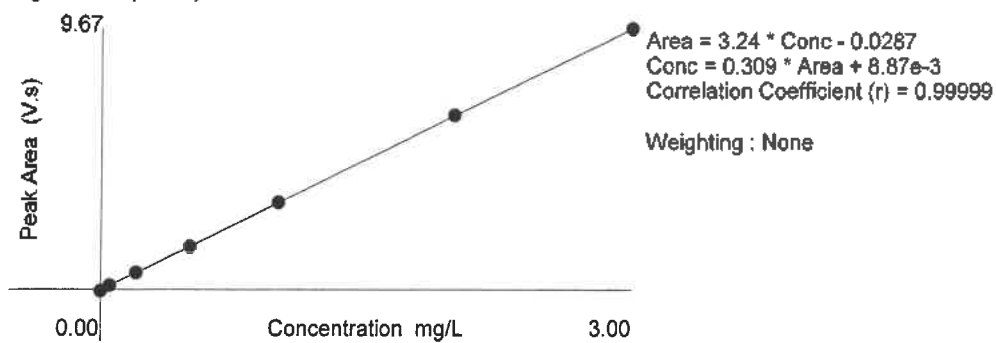
Analyte Properties Table for : OM_1-10-2018_11-55-00AM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	10
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.67	0.902	0.0	0.0	3.00	1/9/2018	3:39:48 PM
2	2.00	1	6.45	0.601	0.0	0.0	2.00	1/9/2018	3:40:55 PM
3	1.00	1	3.21	0.299	0.0	-0.2	1.00	1/9/2018	3:42:01 PM
4	0.500	1	1.59	0.146	0.0	0.2	0.499	1/9/2018	3:43:08 PM
5	0.200	1	0.621	0.0579	0.0	-0.5	0.201	1/9/2018	3:44:15 PM
6	0.0500	1	0.152	0.0127	0.0	-14.2	0.0559	1/9/2018	3:45:22 PM
7	0.00	1	-0.0532	-5.07e-3			-7.58e-3	1/9/2018	3:46:28 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 395879

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-130021-G-1	COMP	SM4500_S2_Sulfide		Total/NA	mg/L	8	1.0	<0.670	<input type="checkbox"/> 0 - 1.374	<input checked="" type="checkbox"/> 0.16 - 1.2 *

** OK, sample reported to RL*

395879

Sulfide Stock Solution Standardization for Reactive Sulfide

Add 5.0 mL of 0.025N iodine solution to a 250 mL flask
Add 1.0 mL of 6N HCl
Add 1.0 mL of 1000 ppm pre-certified Sodium Sulfide below the surface of the Iodine solution
Dilute to 100 mL with reagent water
Add 1 dropper of starch indicator
Titrate with 0.025N Sodium Thiosulfate until the endpoint is reached (blue color disappears)

Repeat twice and average the results

The standardized sodium sulfide concentration is calculated as follows:

$$S = [(A \times B) - (C \times D)] \times 16,000 / E$$

Where:

- A = Volume of iodine solution (5.0 mL)
- B = Normality of iodine solution (0.025N)
- C = Volume of Na₂S₂O₃ solution (Determined by standardization)
- D = Normality of Na₂S₂O₃ solution (0.025N)
- E = Volume of sulfide stock (1.0 mL)
- S = Concentration of sulfide stock

The standardization procedure must be completed for both the primary source standard used for the CCV/MS and the secondary source standard for the LCS

Date:	<input type="text" value="1/15/2018"/>	0.025N Iodine	TALS ID:
		0.025N Sodium Thiosulfate	4308843
			4364667

CCV/MS

mL Na ₂ S ₂ O ₃ used for Titration 1:	3.10
mL Na ₂ S ₂ O ₃ used for Titration 2:	3.00
Avg mL:	<input type="text" value="3.05"/>

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under CCV "Stock Conc."
 STOCK Reagent ID 4405536 The actual concentration of the CCV will calculate automatically
 NEW Reagent ID (CCV/MS) 4455324

LCS

mL Na ₂ S ₂ O ₃ used for Titration 1:	3.20
mL Na ₂ S ₂ O ₃ used for Titration 2:	3.10
Avg mL:	<input type="text" value="3.15"/>

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under LCS "Stock Conc."
 STOCK Reagent ID 4430257 The actual concentration of the LCS will calculate automatically

NEW Reagent ID 4455325

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO ₃ /NO ₂ 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	3878175	Exp. 05/31/2018
Nitrite 1000mg/L STD (CAL)	3847174	Exp. 01/31/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4234660	Exp. 03/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4450121	Exp. 01/17/2018
Nitrite Int STD(MS)	4450122	Exp. 01/17/2018
Nitrate 1.5ppm CCV/ICV/LCS	4449401	Exp. 01/10/2018
Nitrite 1.5ppm CCV/ICV/LCS	4449402	Exp. 01/10/2018
Ammonium Chloride Buffer	4440510	Exp. 01/27/2018
Color Reagent	4428221	Exp. 01/16/2018
1:4 Ammonium Hydroxide	4264855	Exp. 05/09/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
 (1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD **Control Limits** <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
 .5ppm –5ml of 1.0ppm up to 10ml with DI water
 .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
 .05 ppm – 5ml of .2ppm up 20ml With DI water
 ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
 CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
 .5ppm –5ml of 1.0ppm up to 10ml with DI water
 .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
 .05 ppm – 5ml of .2ppm up 20ml With DI water
 ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
 CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples CA 1-10-18

Author: BufLachat3

Date: 1/10/2018

Original Run Filename: OM_1-10-2018_11-32-45AM.OMN Created: 1/10/2018 11:32:45 AM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_1-10-2018_11-32-45AM.OMN Last Modified: 1/10/2018 11:52:15 AM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.51	4.64	0.347	1/10/2018@11:33:30 AM	
CCV	1	S9	1.51	4.63	0.345	1/10/2018@11:34:38 AM	
		Known Conc:	1.50				
		Calibration:	Table/Fig.: 1				
CCB	1	S10	-3.67e-3	-0.108	-5.68e-3	1/10/2018@11:35:46 AM	
		Known Conc:	0.00				
MB	1	S10	6.03e-4	-0.0943	-4.97e-3	1/10/2018@11:36:55 AM	
		Known Conc:	0.00				
LCS	1	S9	1.52	4.66	0.343	1/10/2018@11:38:03 AM	
		Known Conc:	1.50				
480-129878-c-1	1	1	0.0159	-0.0463	-3.48e-3	1/10/2018@11:39:12 AM	
480-129878-c-3	1	2	4.88	15.1	1.13	1/10/2018@11:40:22 AM	
DU 480-129878-c-3	1	3	4.93	15.3	1.14	1/10/2018@11:41:31 AM	
MS 480-129878-c-3	1	4	5.84	18.2	1.36	1/10/2018@11:42:39 AM	
CCV	1	S9	1.50	4.62	0.343	1/10/2018@11:43:47 AM	
		Known Conc:	1.50				
CCB	1	S10	2.69e-3	-0.0878	-4.66e-3	1/10/2018@11:44:56 AM	
		Known Conc:	0.00				
480-129878-c-3 ^{A5}	1	9	1.01	3.06	0.224	1/10/2018@11:46:04 AM	
480-129878-c-3 ^{A5} DU	1	10	1.03	3.14	0.232	1/10/2018@11:47:12 AM	
480-129878-c-3 ^{A5} MS	1	11	2.13	6.57	0.490	1/10/2018@11:48:20 AM	
CCV	1	S9	1.51	4.64	0.346	1/10/2018@11:49:29 AM	
		Known Conc:	1.50				
CCB	1	S10	9.00e-4	-0.0934	-5.01e-3	1/10/2018@11:50:37 AM	
		Known Conc:	0.00				

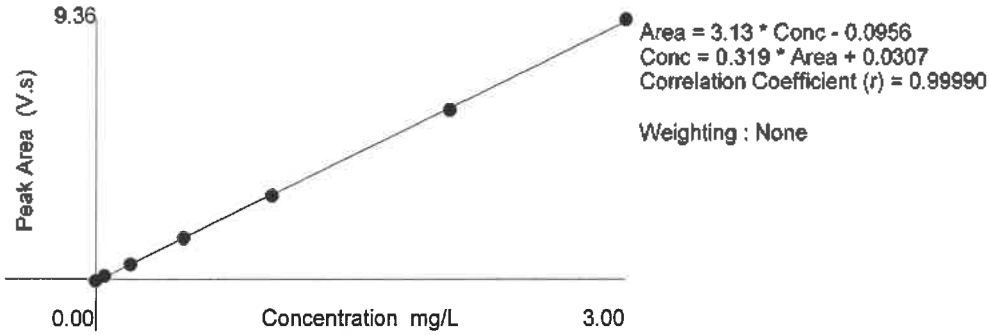
Analyte Properties Table for : OM_1-10-2018_11-32-45AM.OMN

Property	Channel 2 Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.36	0.715	0.0	-0.7	3.02	1/9/2018	4:08:15 PM
2	2.00	1	6.09	0.466	0.0	1.3	1.98	1/9/2018	4:09:24 PM
3	1.00	1	2.99	0.228	0.0	1.5	0.986	1/9/2018	4:10:32 PM
4	0.500	1	1.46	0.111	0.0	0.4	0.498	1/9/2018	4:11:41 PM
5	0.200	1	0.522	0.0400	0.0	1.7	0.197	1/9/2018	4:12:50 PM
6	0.0500	1	0.107	7.51e-3	0.0	-75.3	0.0648	1/9/2018	4:14:00 PM
7	0.00	1	-0.0722	-4.46e-3			7.66e-3	1/9/2018	4:15:08 PM

Figure : 1 (Nitrate/Nitrite)



Author: BufLachat3

Date: 1/10/2018

Original Run Filename: OM_1-10-2018_11-55-00AM.OMN Created: 1/10/2018 11:55:00 AM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_1-10-2018_11-55-00AM.OMN Last Modified: 1/10/2018 12:08:12 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.56	5.01	0.459	1/10/2018@11:56:05 AM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-0.0200	-0.0935	-6.82e-3	1/10/2018@11:57:12 AM	
		Known Conc:	100				
MB	1	S10	-0.0139	-0.0737	-5.33e-3	1/10/2018@11:58:18 AM	
		Known Conc:	100				
LCS	1	S11	1.58	5.07	0.467	1/10/2018@11:59:24 AM	
		Known Conc:	100				
480-129878-c-1	1	1	-0.0165	-0.0821	-6.53e-3	1/10/2018@12:00:31 PM	
480-129878-c-3	1	2	0.0514	0.138	0.0111	1/10/2018@12:01:38 PM	
DU 480-129878-c-3	1	3	0.0531	0.143	0.0109	1/10/2018@12:02:45 PM	
MS 480-129878-c-3	1	4	1.06	3.39	0.307	1/10/2018@12:03:52 PM	
CCV	1	S11	1.58	5.08	0.463	1/10/2018@12:04:58 PM	
		Known Conc:	100				
CCB	1	S10	-0.0164	-0.0817	-4.41e-3	1/10/2018@12:06:05 PM	
		Known Conc:	100				

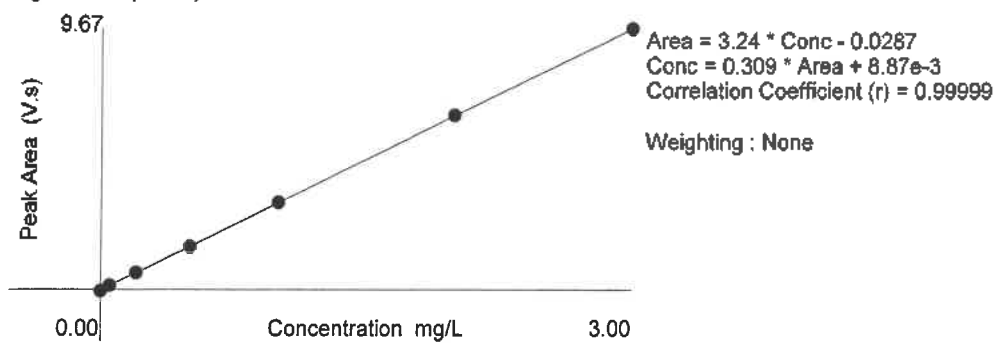
Analyte Properties Table for : OM_1-10-2018_11-55-00AM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	10
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.67	0.902	0.0	0.0	3.00	1/9/2018	3:39:48 PM
2	2.00	1	6.45	0.601	0.0	0.0	2.00	1/9/2018	3:40:55 PM
3	1.00	1	3.21	0.299	0.0	-0.2	1.00	1/9/2018	3:42:01 PM
4	0.500	1	1.59	0.146	0.0	0.2	0.499	1/9/2018	3:43:08 PM
5	0.200	1	0.621	0.0579	0.0	-0.5	0.201	1/9/2018	3:44:15 PM
6	0.0500	1	0.152	0.0127	0.0	-14.2	0.0559	1/9/2018	3:45:22 PM
7	0.00	1	-0.0532	-5.07e-3			-7.58e-3	1/9/2018	3:46:28 PM

Figure : 1 (Nitrite)



Ion Chromatography Data Review Checklist

LIMS Batch Number: 392303-6	Worklist: 68016	Instrument ID (circle one): IC1 <input type="radio"/> IC2 <input checked="" type="radio"/>
Analyst/1 st Reviewer: CA	Method (circle) 300.0, 314.0, 9056, 7199, SM4110	QC Type (circle) Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate CALIBRATION		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		/	
2. Elution order of analytes in ICAL confirmed to be correct		Y		/	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y		/	
4. ICV, second source: run before samples 90-110% recovery		Y		/	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)	NA			NA	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)	NA			/	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	NA			NA	If no, list details:
8. Pk Area: Height Difference (314.0 PD _{WH}): Before samples <25%	NA			NA	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?	NA			NA	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)	NA			NA	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:	NA			NA	<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results > 10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:	NA			NA	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:	NA			NA	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%	NA			NA	

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified			NA	NA
b. All crossed out data is initialed and dated			NA	NA
c. Out of control QC is clearly identified			NA	NA
d. Any data that has a qualifier tick is commented on with appropriate action taken			NA	NA
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		✓	
16. Run Log				
a. Unused data is clearly identified			NA	NA
b. All crossed out data is initialed and dated			NA	NA
c. Analyst initials/signature provided	Y		✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y		✓	
b. Method and matrix are correct			NA	NA
c. Date and time match raw data	Y		✓	
d. Dilutions are correct	Y		✓	
e. Correct suffix designated (where applicable)	Y		✓	
18. TALS Worksheet Tab is complete and correct				
19. TALS Reagent Tab is complete and correct				
20. TALS QC Links Tab is correct				
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted			NA	NA
b. All reported analytes are marked Primary or Secondary			NA	NA
22. TALS Batch Information Screen documentation is complete				
23. TALS Status set to appropriate review level				
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 20171215CAL
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b
 Upload Directory: \\CorptalSAPP17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 68016
 Chrom Method: IC2-300
 Units: ul

Worklist ID	lms ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068016-001	# 1 MeOH		Client		SV	5.000	mL	1.000
480-0068016-002	# 2 MeOH		Client		SV	5.000	mL	1.000
480-0068016-003	# 3 MeOH		Client		SV	5.000	mL	1.000
480-0068016-004	# 4 BLANK		Client		SV	5.000	mL	1.000
480-0068016-005	# 5 BLANK		Client		SV	5.000	mL	1.000
480-0068016-006	# 6 IC-STD1	IC_ANION_STD_00027	IC	1	SV	5.000	mL	1.000
480-0068016-007	# 7 IC-STD2	IC_ANION_STD_00027	IC	2	2.5 L SV	5.000	mL	1.000
480-0068016-008	# 8 IC-STD3	IC_ANION_STD_00027	IC	3	5 L SV	5.000	mL	1.000
480-0068016-009	# 9 IC-STD4	IC_ANION_STD_00027	IC	4	25 L SV	5.000	mL	1.000
480-0068016-010	# 10 IC-STD5	IC_ANION_STD_00027	IC	5	100 L SV	5.000	mL	1.000
480-0068016-011	# 11 IC-STD6	IC_ANION_STD_00027	IC	6	250 L SV	5.000	mL	1.000
480-0068016-012	# 12 ICV	IC ERA_00014	ICV		SV	5.000	mL	1.000
480-0068016-013	# 13 ICB		ICB		SV	5.000	mL	1.000

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d

Replace Expected RT from Ical Level: 5

Replace Expected RT from CCV Samples

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.360	2.363	2.367	2.370	2.383	2.383	2.371	0.423	2.383
2 Chloride	3.173	3.173	3.173	3.170	3.170	3.157	3.169	0.204	3.170
3 Bromide	4.583	4.593	4.583	4.573	4.557	4.523	4.569	0.559	4.557
5 Sulfate	5.393	5.390	5.373	5.313	5.240	5.160	5.312	1.781	5.240

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b
 Inj Date : 15-Dec-2017 15:41:08, Sublist: chrom-IC2-300*sub2

Limit Group: MB SM4110B ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	67460	63680	58340	57436	53297	48977		58198		WAv	11.5		
2 Chloride	15.9	9.4	0.2	-1.3	-8.4	-15.8							
	41820	37789	32673	33693	33950	33685		35635		WAv	9.8		
3 Bromide	17.4	6.0	-8.3	-5.4	-4.7	-4.9							
	6900	11050	9944	11517	11893	11600	-204	11597		WLinr	8.9	0.992	
5 Sulfate	-5.4	12.8	-10.7	0.2	2.9	0.2							
	49972	42170	29620	27101	25932	25401	12531	26516		WLinr	7.3	0.995	
	-6.1	11.8	2.3	-0.2	-3.1	-4.7							

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 16-Dec-2017 09:48:51

No. Compounds: 5

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d

Replace Expected RT from Ical Level: 5

Replace Expected RT from CCV Samples

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.360	2.363	2.367	2.370	2.383	2.383	2.371	0.423	2.383
2 Chloride	3.173	3.173	3.173	3.170	3.170	3.157	3.169	0.204	3.170
3 Bromide	4.583	4.593	4.583	4.573	4.557	4.523	4.569	0.559	4.557
5 Sulfate	5.393	5.390	5.373	5.313	5.240	5.160	5.312	1.781	5.240

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b
 Inj Date : 15-Dec-2017 15:41:08, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	67460	63680	58340	57436	53297	48977		58198		WAVg	11.5		
2 Chloride	15.9	9.4	0.2	-1.3	-8.4	-15.8		35635		WAVg	9.8		
3 Bromide	17.4	6.0	-8.3	-5.4	-4.7	-4.9		11597		WLinr	8.9	0.992	
5 Sulfate	-5.4	12.8	-10.7	0.2	2.9	0.2	-204	12531	26516	WLinr	7.3	0.985	
	49972	42170	29620	27101	25932	25401							
	-6.1	11.8	2.3	-0.2	-3.1	-4.7							

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Limit Group: MB 9056 ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d

Replace Expected RT from Ical Level: 5

Replace Expected RT from CCV Samples

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.360	2.363	2.367	2.370	2.383	2.383	2.371	0.423	2.383
2 Chloride	3.173	3.173	3.173	3.170	3.170	3.157	3.169	0.204	3.170
3 Bromide	4.583	4.593	4.583	4.573	4.567	4.523	4.569	0.559	4.557
5 Sulfate	5.393	5.390	5.373	5.313	5.240	5.160	5.312	1.781	5.240

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b
 Inj Date : 15-Dec-2017 15:41:08, Sublist: chrom-IC2-300*sub2

Limit Group: MB 9056 ICAL

Column 1:

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	67460	63680	58340	57436	53297	48977		58198		WAvg	11.5		
	15.9	9.4	0.2	-1.3	-8.4	-15.8							
2 Chloride	41820	37789	32673	33693	33950	33885		35635		WAvg	9.8		
	17.4	6.0	-8.3	-5.4	-4.7	-4.9							
3 Bromide	6900	11050	9944	11517	11893	11600	-204	11597		WLinr	8.9	0.992	
	-5.4	12.8	-10.7	0.2	2.9	0.2							
5 Sulfate	49972	42170	29620	27101	25932	25401	12531	26516		WLinr	7.3	0.995	
	-6.1	11.8	2.3	-0.2	-3.1	-4.7							

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d

Replace Expected RT from Ical Level: 5

Replace Expected RT from CCV Samples

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
4 Nitrate as N	4.843	4.840	4.833	4.807	4.767	4.707	4.799	1.120	4.767

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Dec-2017 09:48:51
 No. Compounds: 5

Initial Calibration Batches

ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b
 Inj Date : 15-Dec-2017 15:41:08, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
4 Nitrate as N	74040	79970	79446	84714	85252	85792		81536		WAvg	5.6		
	-9.2	-1.9	-2.6	3.9	4.6	5.2							

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_218.d
 Lims ID: IC - STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Dec-2017 15:41:08 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 218 Name: IC - STD1
 Misc. Info.: Study: 480-0068016-006 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Dec-2017 09:26:40 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 16-Dec-2017 09:19:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.360	2.383	-0.023	3373	0.0500	0.0580	M
2 Chloride						
3.173	3.170	0.003	20910	0.5000	0.5868	
3 Bromide						M
4.583	4.557	0.026	345	0.0500	0.0473	M
4 Nitrate as N						
4.843	4.767	0.076	3702	NC	NC	
5 Sulfate						
5.393	5.240	0.153	24986	0.5000	0.4697	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00027

Amount Added: 2.50

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_218.d

Injection Date: 15-Dec-2017 15:41:08

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD1

Worklist Smp#: 6

Client ID:

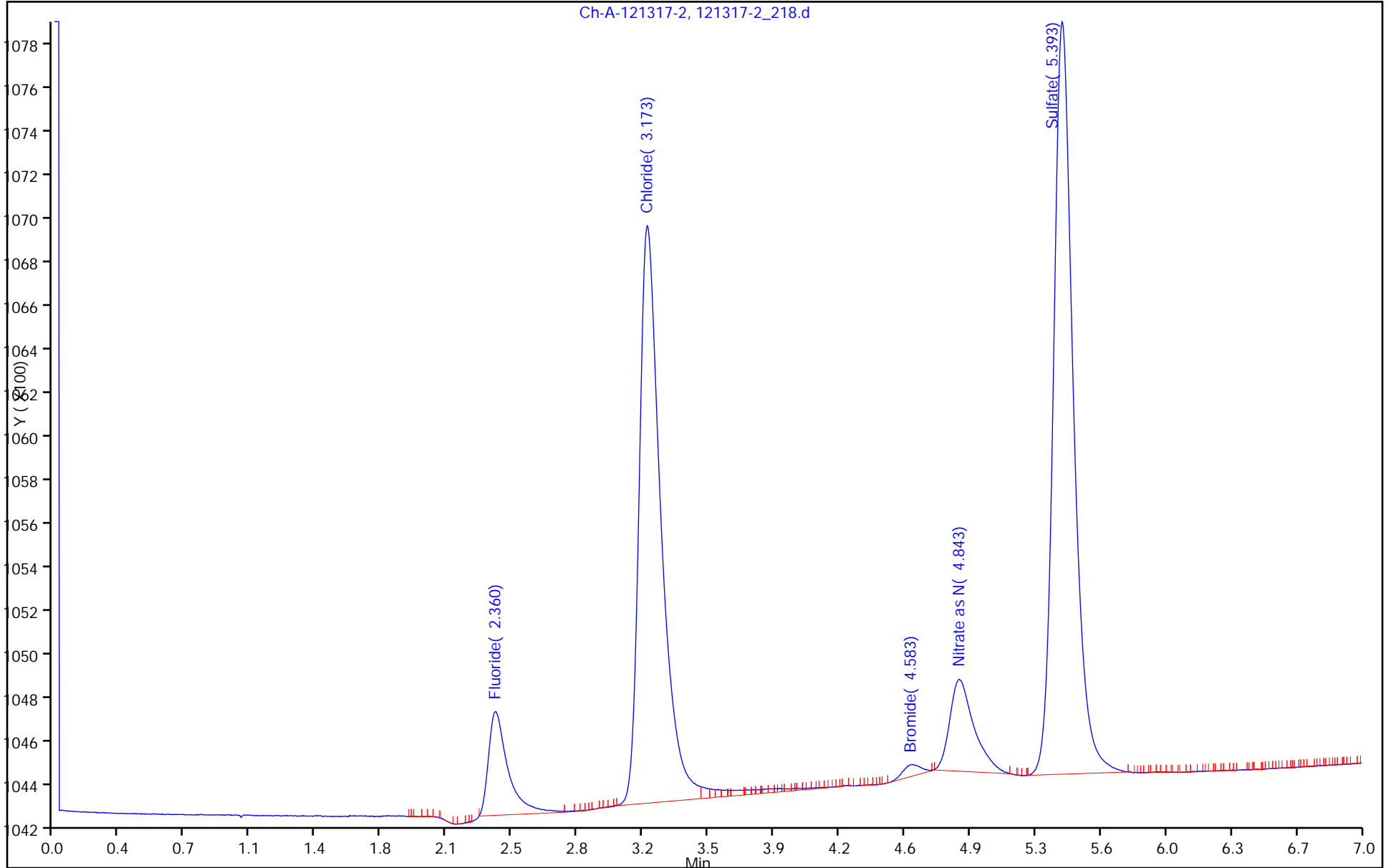
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

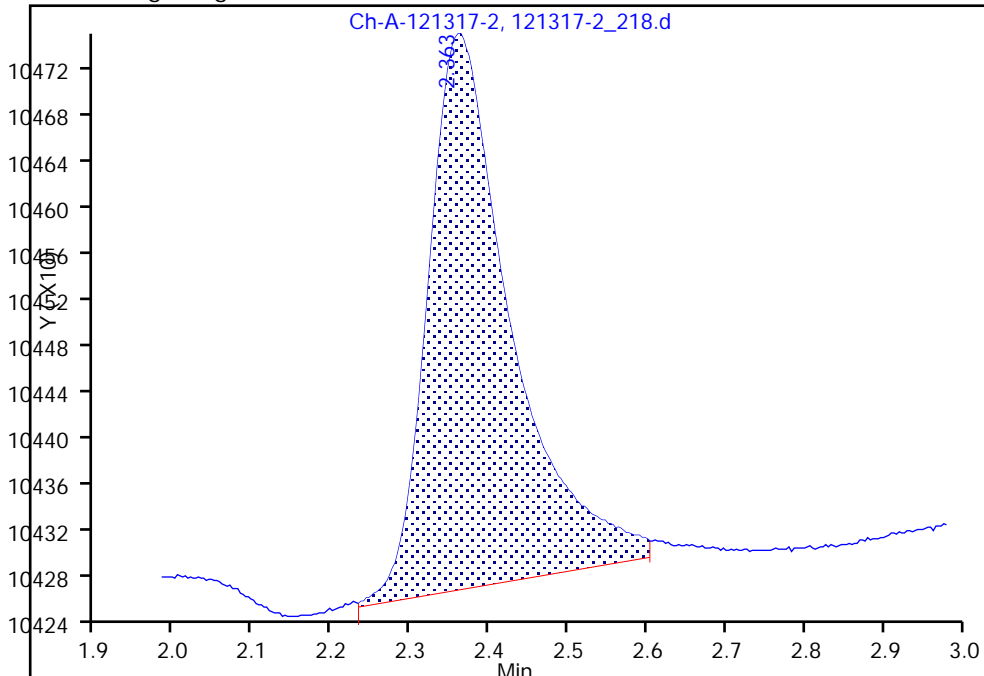
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_218.d
Injection Date: 15-Dec-2017 15:41:08 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

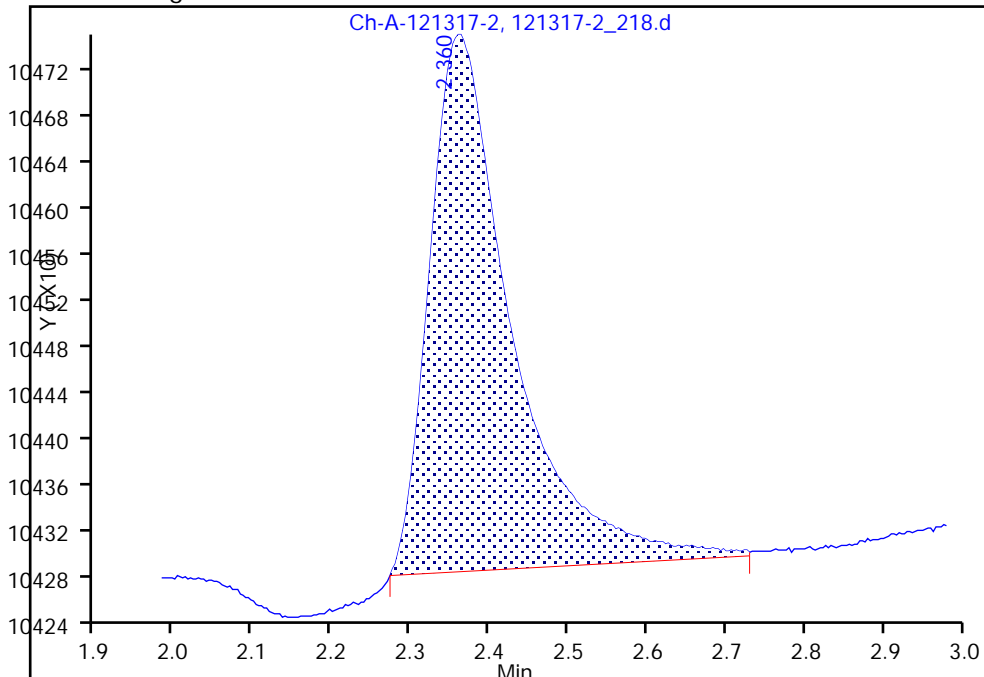
RT: 2.36
Area: 3528
Amount: 0.059149
Amount Units: ng/uL

Processing Integration Results



RT: 2.36
Area: 3373
Amount: 0.057957
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:07:30
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

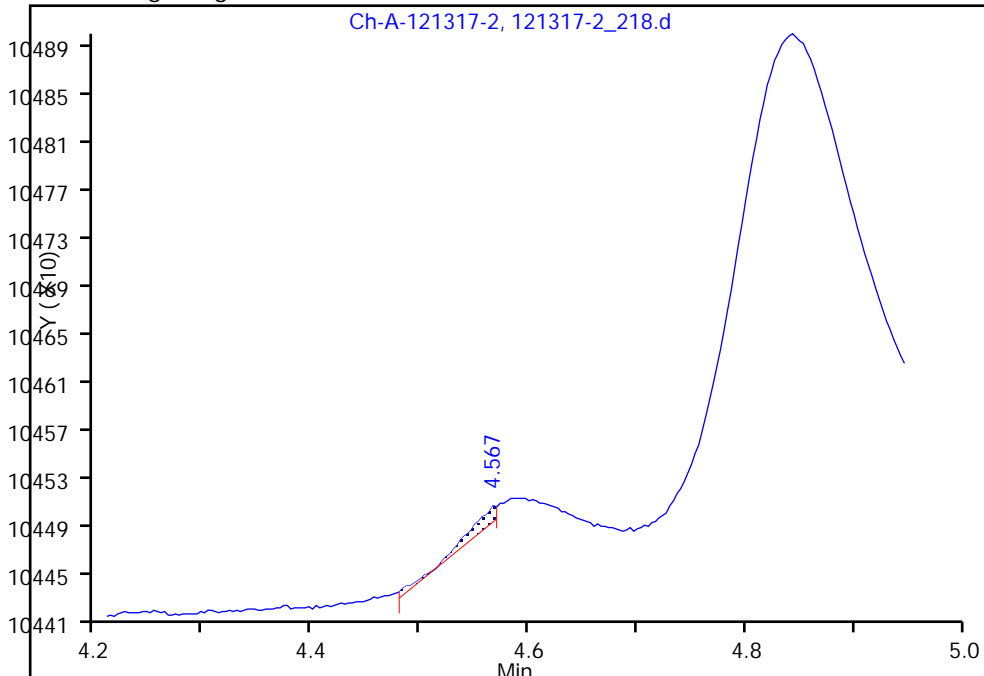
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_218.d
Injection Date: 15-Dec-2017 15:41:08 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

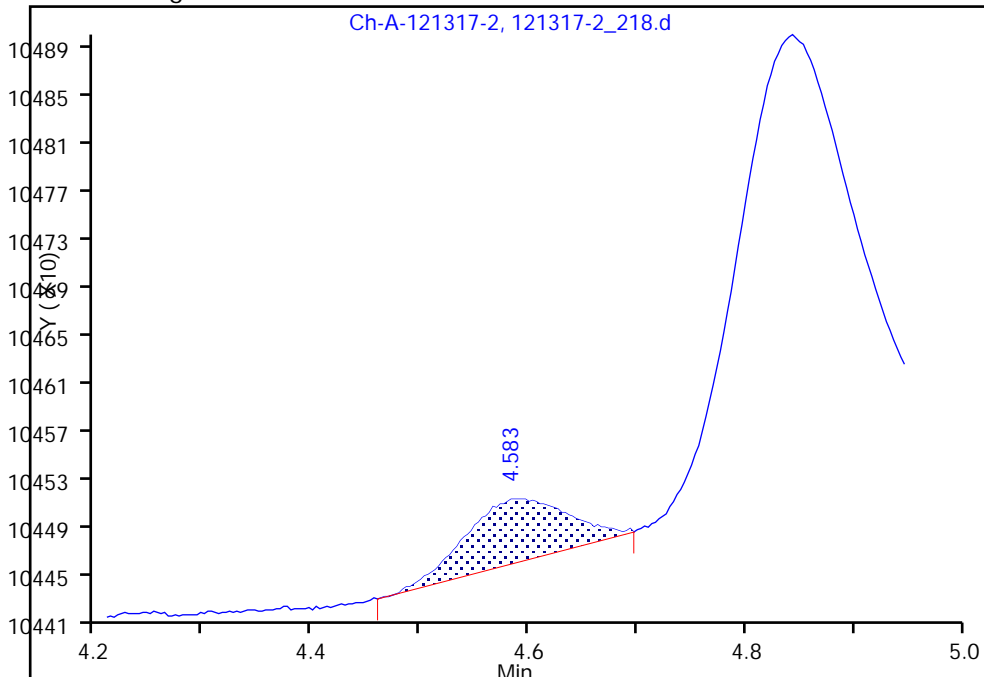
RT: 4.57
Area: 28
Amount: 0.038369
Amount Units: ng/uL

Processing Integration Results



RT: 4.58
Area: 345
Amount: 0.047309
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:08:15
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_219.d
 Lims ID: IC - STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Dec-2017 15:49:16 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 219 Name: IC - STD2
 Misc. Info.: Study: 480-0068016-007 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Dec-2017 09:26:42 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 16-Dec-2017 09:09:55

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.363	2.383	-0.020	6368	0.1000	0.1094	M
2 Chloride						
3.173	3.170	0.003	37789	1.00	1.06	
3 Bromide						
4.593	4.557	0.036	1105	0.1000	0.1128	
4 Nitrate as N						
4.840	4.767	0.073	7997	NC	NC	
5 Sulfate						
5.390	5.240	0.150	42170	1.00	1.12	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00027 Amount Added: 5.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_219.d

Injection Date: 15-Dec-2017 15:49:16

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD2

Worklist Smp#: 7

Client ID:

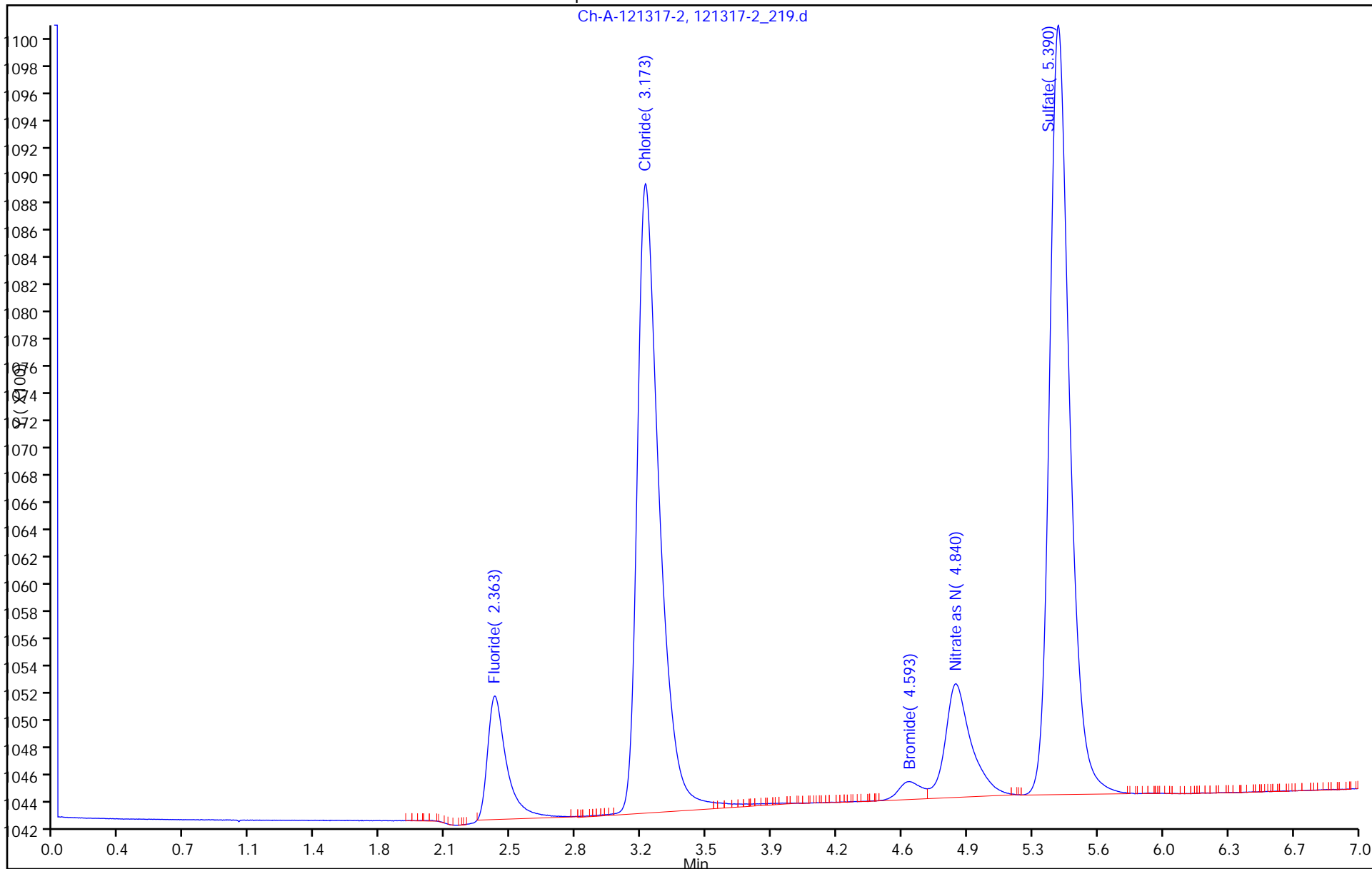
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

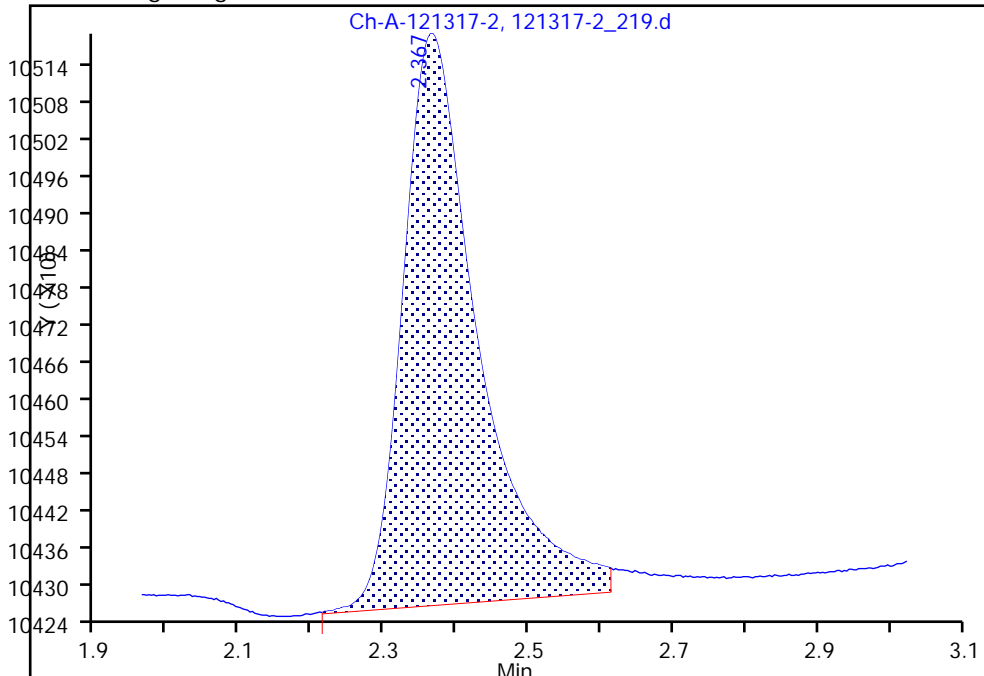
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_219.d
Injection Date: 15-Dec-2017 15:49:16 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

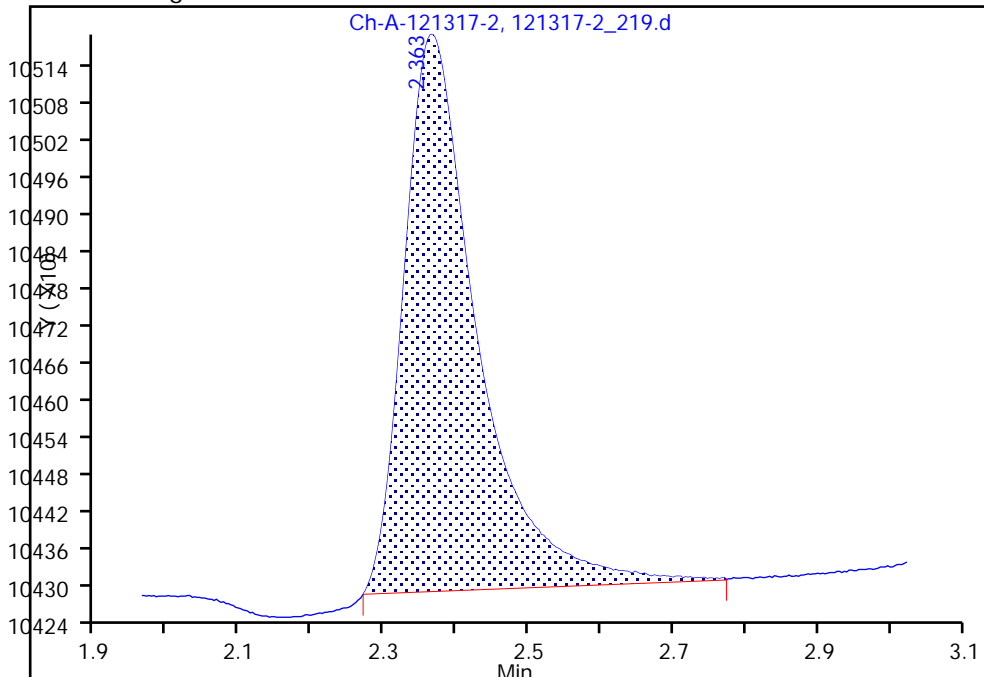
RT: 2.37
Area: 6726
Amount: 0.113751
Amount Units: ng/uL

Processing Integration Results



RT: 2.36
Area: 6368
Amount: 0.109419
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:09:20
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_220.d
 Lims ID: IC - STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Dec-2017 15:57:25 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 220 Name: IC - STD3
 Misc. Info.: Study: 480-0068016-008 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Dec-2017 09:26:44 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 16-Dec-2017 09:10:57

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.367	2.383	-0.016	29170	0.5000	0.5012	M
2 Chloride						
3.173	3.170	0.003	163363	5.00	4.58	
3 Bromide						
4.583	4.557	0.026	4972	0.5000	0.4463	
4 Nitrate as N						
4.833	4.767	0.066	39723	NC	NC	
5 Sulfate						
5.373	5.240	0.133	148099	5.00	5.11	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00027 Amount Added: 25.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_220.d

Injection Date: 15-Dec-2017 15:57:25

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD3

Worklist Smp#: 8

Client ID:

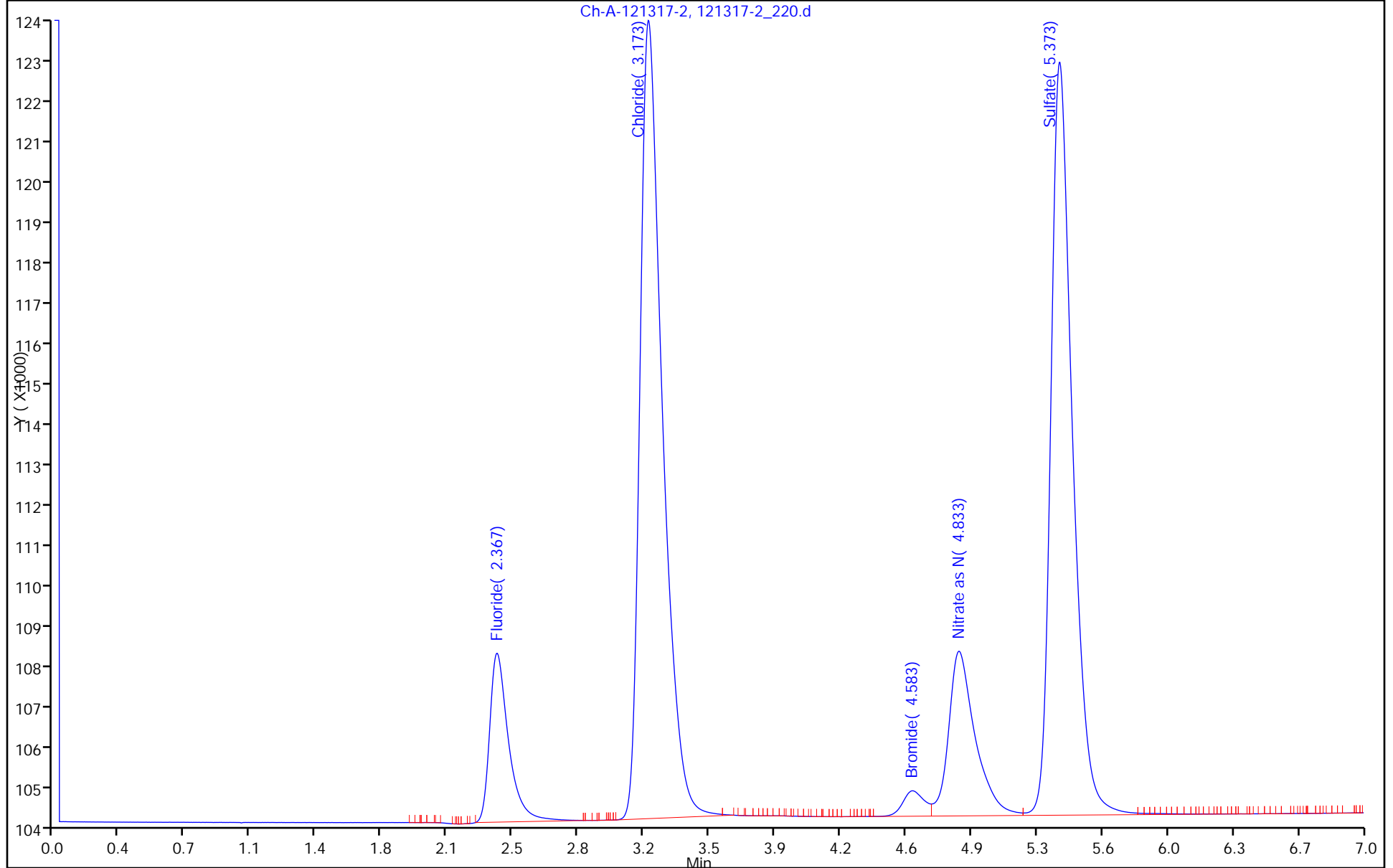
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

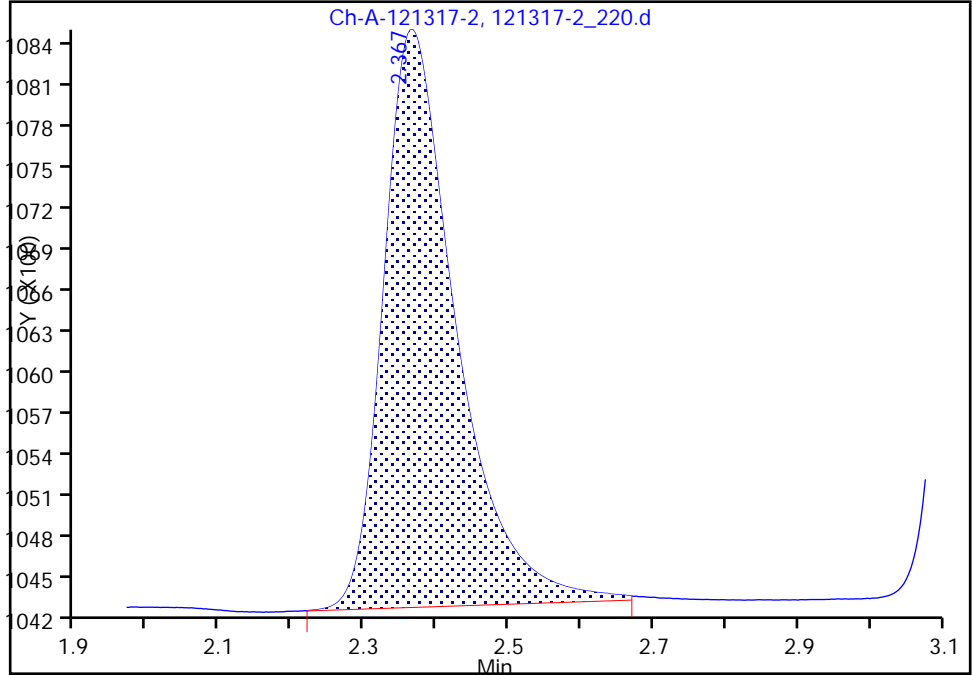
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_220.d
Injection Date: 15-Dec-2017 15:57:25 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

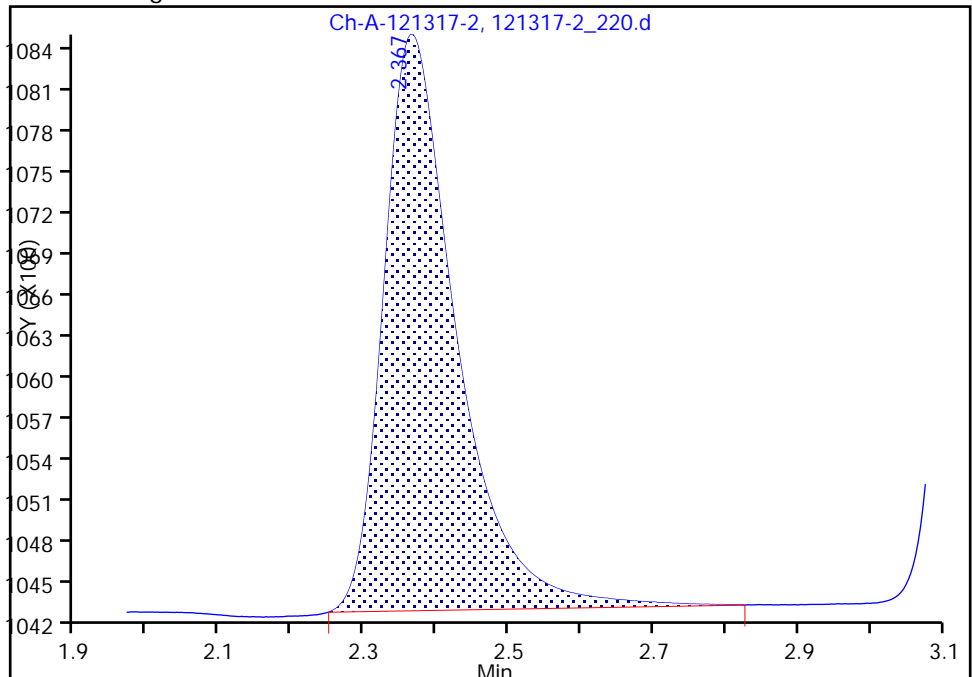
RT: 2.37
Area: 29093
Amount: 0.497041
Amount Units: ng/uL

Processing Integration Results



RT: 2.37
Area: 29170
Amount: 0.501217
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:10:29
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_221.d
 Lims ID: IC - STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Dec-2017 16:05:33 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 221 Name: IC - STD4
 Misc. Info.: Study: 480-0068016-009 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Dec-2017 09:26:45 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 16-Dec-2017 09:11:53

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.370	2.383	-0.013	114871	2.00	1.97	M
2 Chloride						
3.170	3.170	0.000	673869	20.0	18.9	
3 Bromide						
4.573	4.557	0.016	23034	2.00	2.00	
4 Nitrate as N						
4.807	4.767	0.040	169428	NC	NC	
5 Sulfate						
5.313	5.240	0.073	542027	20.0	20.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00027 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_221.d

Injection Date: 15-Dec-2017 16:05:33

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD4

Worklist Smp#: 9

Client ID:

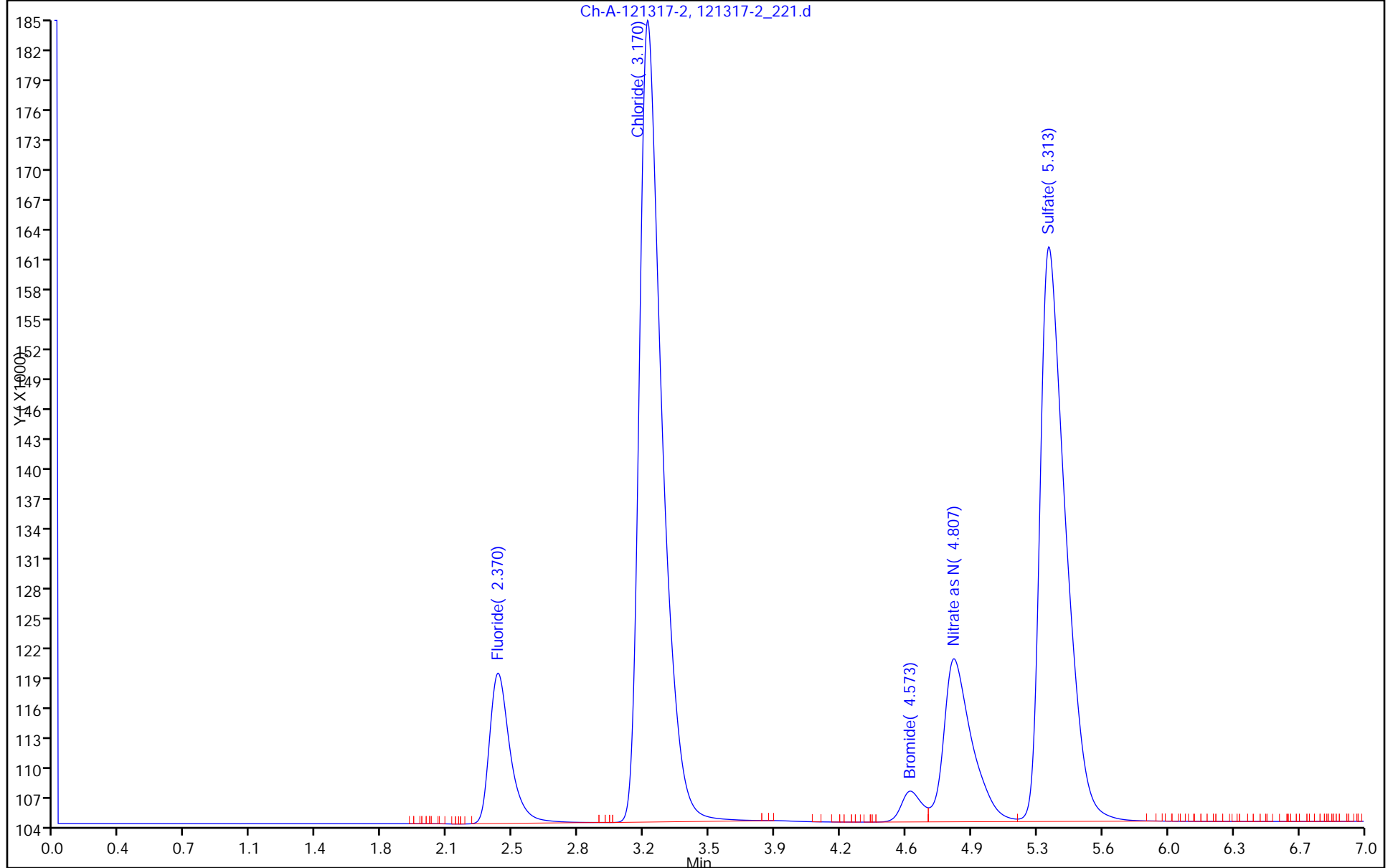
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

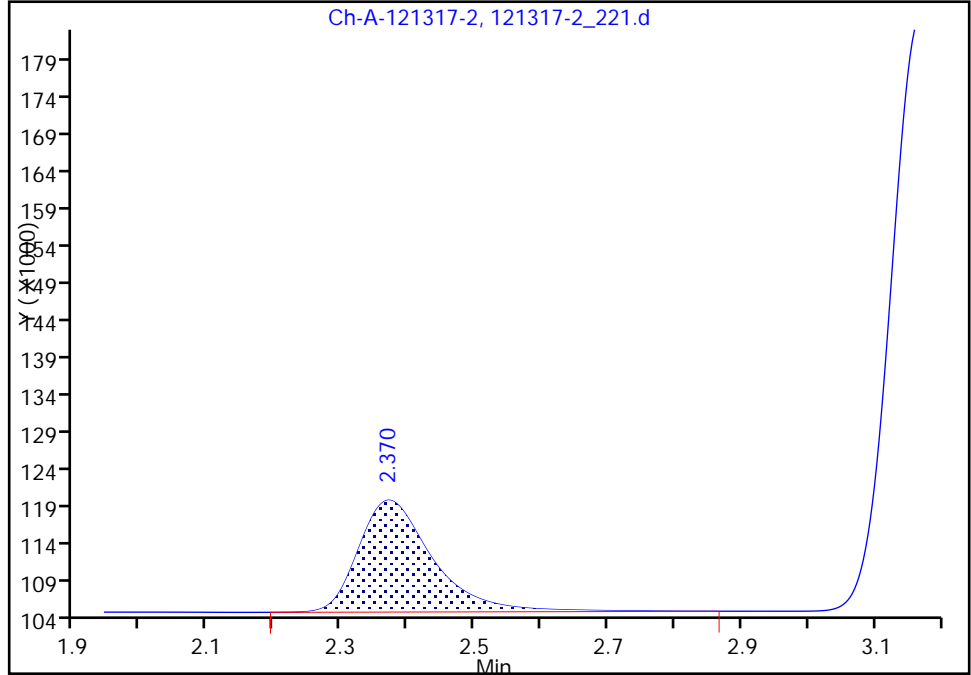
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_221.d
Injection Date: 15-Dec-2017 16:05:33 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

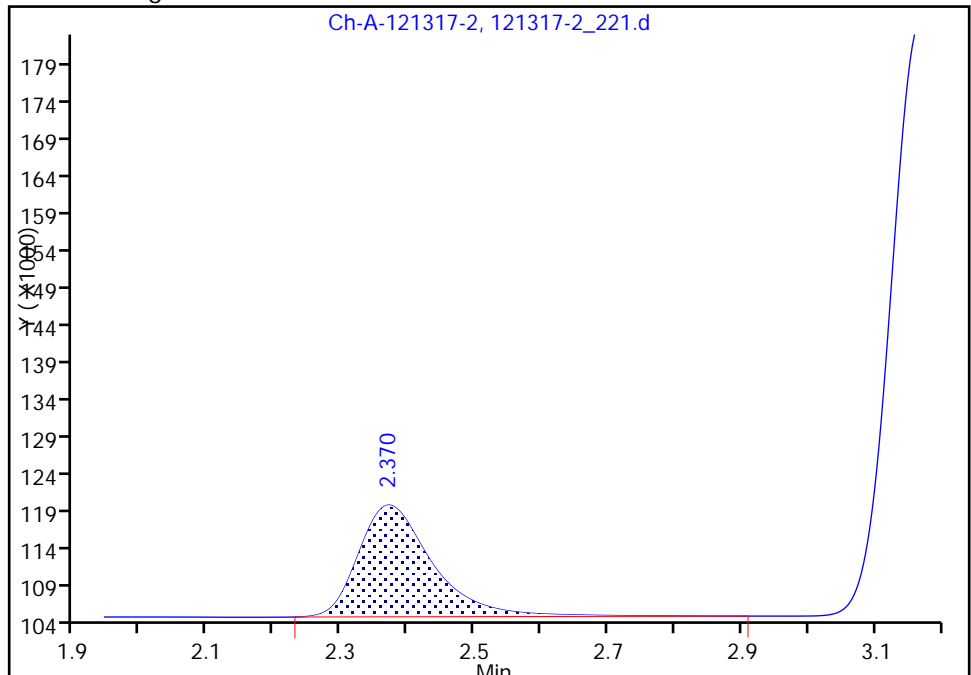
RT: 2.37
Area: 115287
Amount: 1.968765
Amount Units: ng/uL

Processing Integration Results



RT: 2.37
Area: 114871
Amount: 1.973783
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:11:20
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d
 Lims ID: IC - STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Dec-2017 16:13:42 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 222 Name: IC - STD5
 Misc. Info.: Study: 480-0068016-010 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Dec-2017 09:18:27 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 16-Dec-2017 09:06:30

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.383	2.383	0.000	266487	5.00	4.58	M
2 Chloride						
3.170	3.170	0.000	1697499	50.0	47.6	
3 Bromide						
4.557	4.557	0.000	59464	5.00	5.14	
4 Nitrate as N						
4.767	4.767	0.000	426262	NC	NC	
5 Sulfate						
5.240	5.240	0.000	1296610	50.0	48.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00027 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d

Injection Date: 15-Dec-2017 16:13:42

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD5

Worklist Smp#: 10

Client ID:

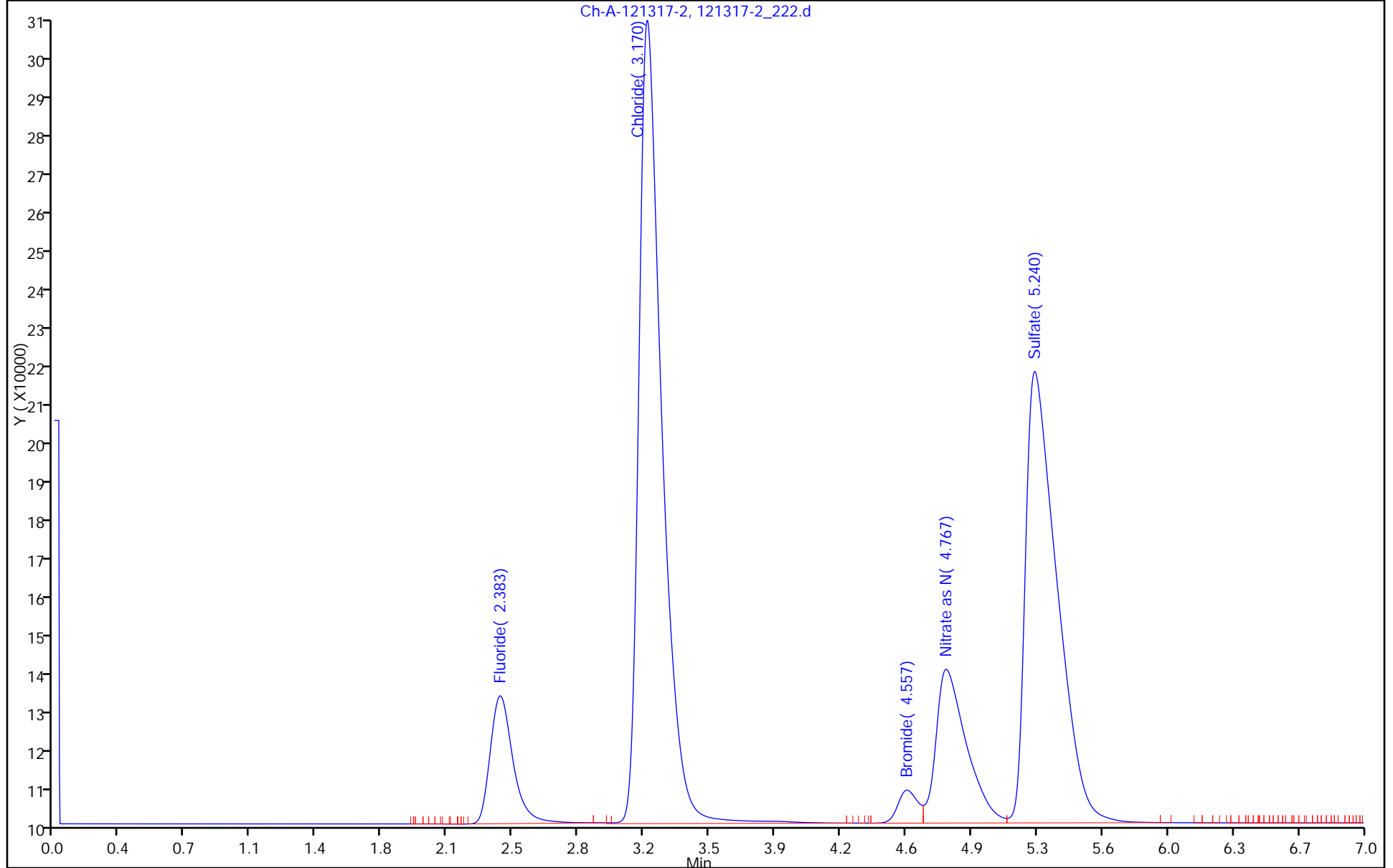
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

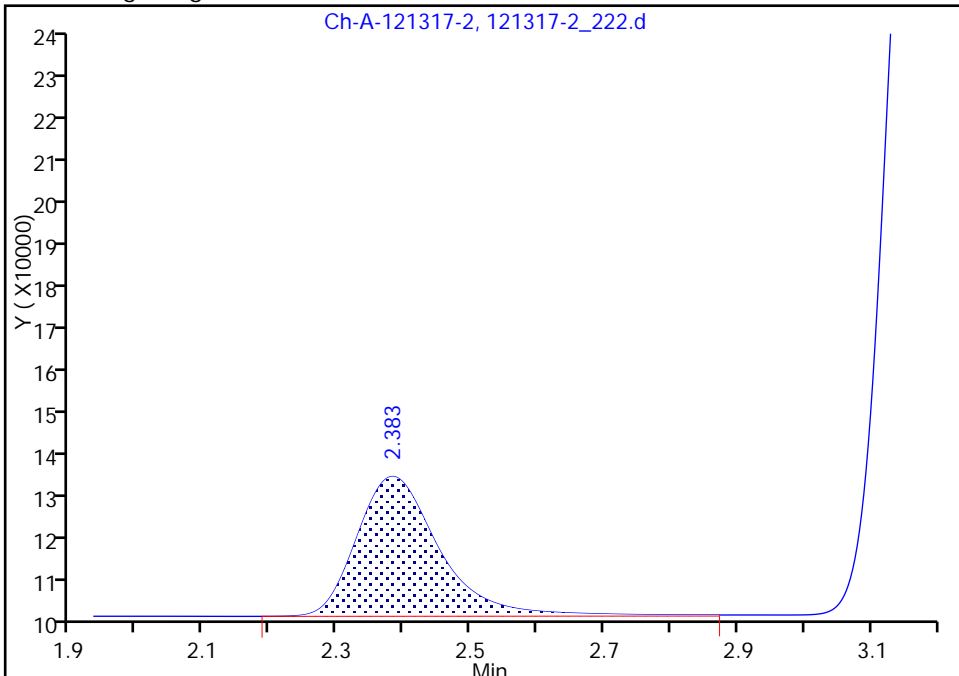
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_222.d
Injection Date: 15-Dec-2017 16:13:42 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

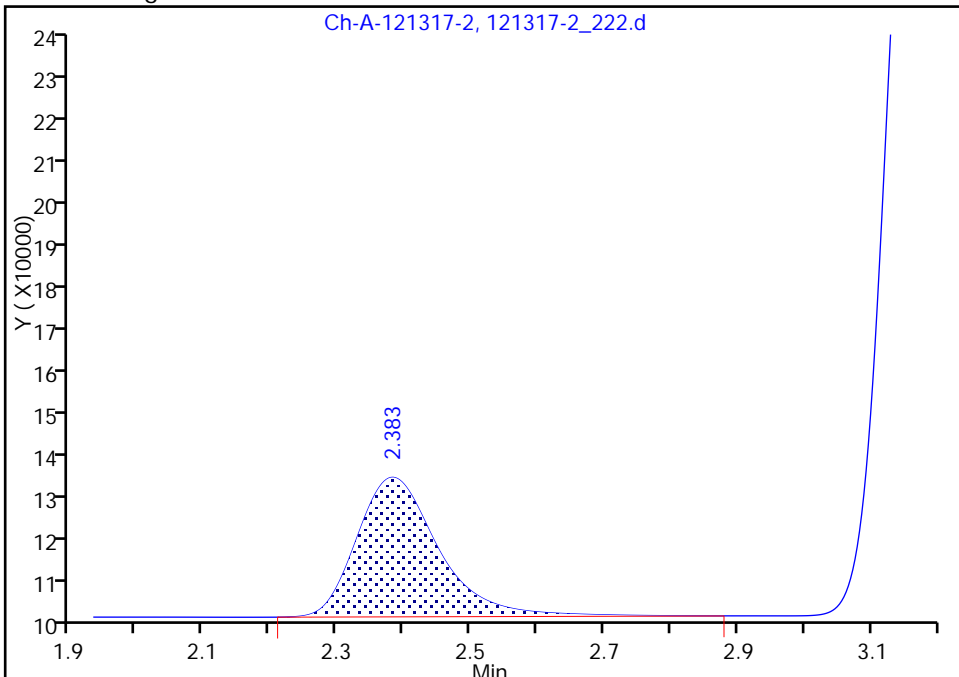
RT: 2.38
Area: 270800
Amount: 4.627213
Amount Units: ng/uL

Processing Integration Results



RT: 2.38
Area: 266487
Amount: 4.578942
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:12:43
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Lims ID: IC - STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Dec-2017 16:21:50 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 223 Name: IC - STD6
 Misc. Info.: Study: 480-0068016-011 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Dec-2017 09:26:47 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 16-Dec-2017 09:14:24

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.383	2.383	0.000	489774	10.0	8.42	M
2 Chloride						
3.157	3.170	-0.013	3388483	100.0	95.1	
3 Bromide						
4.523	4.557	-0.034	116001	10.0	10.0	
4 Nitrate as N						
4.707	4.767	-0.060	857923	NC	NC	
5 Sulfate						
5.160	5.240	-0.080	2540095	100.0	95.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00027 Amount Added: 500.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d

Injection Date: 15-Dec-2017 16:21:50

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD6

Worklist Smp#: 11

Client ID:

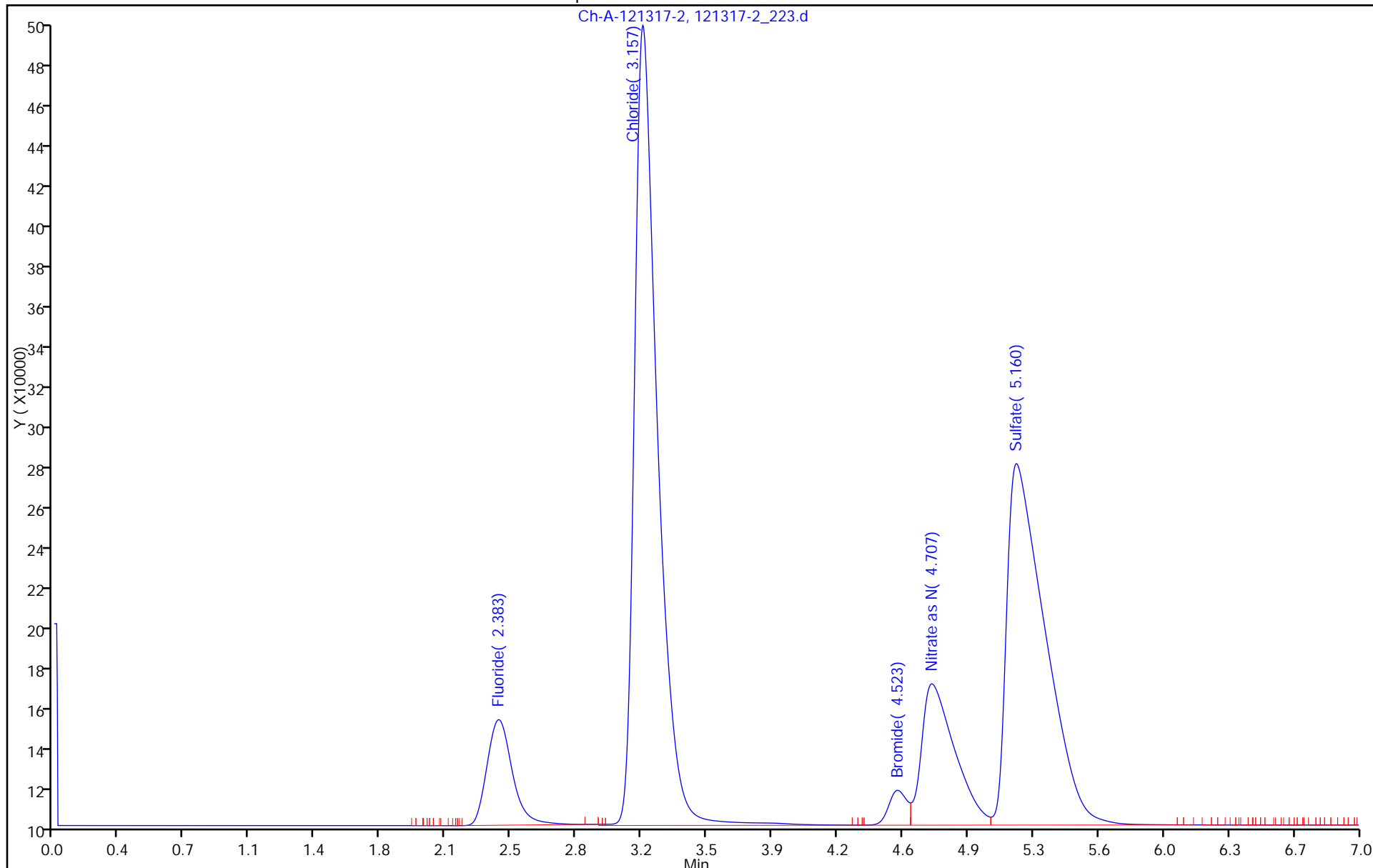
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

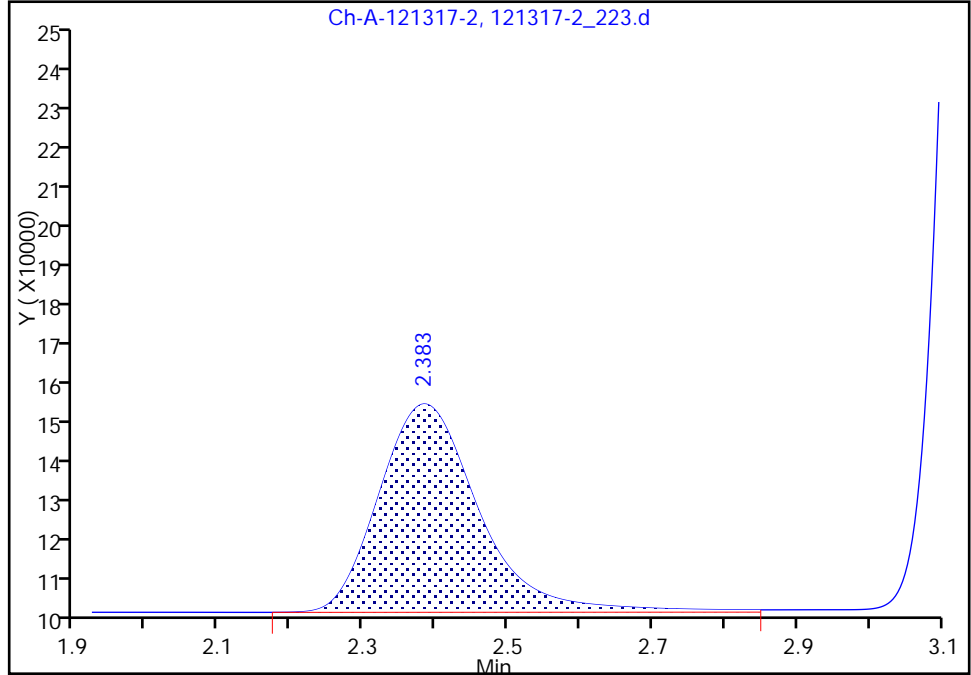
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
Injection Date: 15-Dec-2017 16:21:50 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

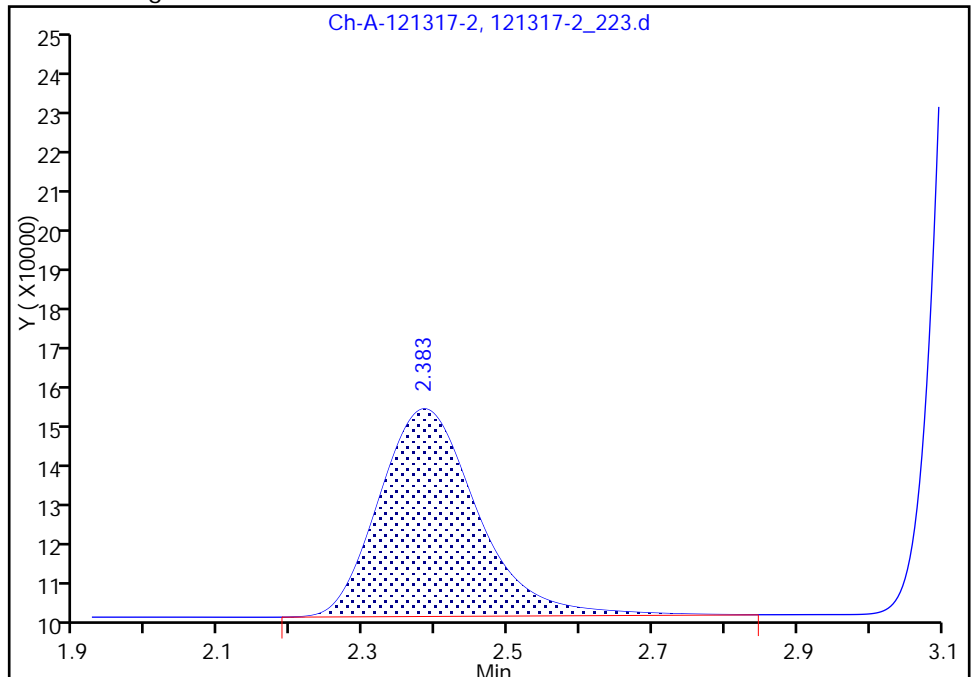
RT: 2.38
Area: 500646
Amount: 8.575704
Amount Units: ng/uL

Processing Integration Results



RT: 2.38
Area: 489774
Amount: 8.415595
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Dec-2017 09:13:56
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

Ion Chromatography Data Review Checklist

LIMS Batch Number: 395414	Filename: 68513	Instrument ID (circle one): IC3 IC4 IC2			
Analyst/1 st Reviewer: CA	Method (circle): 300.0/314.0, 9056, 7199, SM4110	QC Type (circle): Standard QAPP Other			
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		129666, 129879, 129886, 129890			
Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		/	
2. Elution order of analytes in ICAL confirmed to be correct		Y		/	
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y		/	
4. ICV, second source: run before samples 90-110% recovery		Y		/	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y		/	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) NA Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)				/	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS) NA				/	If no, list details:
8. Pk Area: Height Difference (314.0 PD _{NH}): Before samples $< 25\%$ NA				/	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y		/	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		Y		/	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y		/	<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

Wilainan 7

TestAmerica [lab name]

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y		/	

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Out of control QC is clearly identified	Y		/	
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y		/	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		/	
16. Run Log				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Analyst initials/signature provided	Y		/	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y		/	
b. Method and matrix are correct	Y		/	
c. Date and time match raw data	Y		/	
d. Dilutions are correct	Y		/	
e. Correct suffix designated (where applicable)	Y		/	
18. TALS Worksheet Tab is complete and correct	Y		/	
19. TALS Reagent Tab is complete and correct	Y		/	
20. TALS QC Links Tab is correct	Y		/	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y		/	
b. All reported analytes are marked Primary or Secondary	Y		/	
22. TALS Batch Information Screen documentation is complete	Y		/	
23. TALS Status set to appropriate review level	Y		/	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			NA	
25. Results for samples and QC correct on final report?			NA	
26. Are all necessary scanned documents in TALS?			NA	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			NA	

2nd Reviewer: Wilainan T Review Date: 1/12/18

Comments: _____

Wilainan T
07/03/2018

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180111
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b
 Upload Directory: \\CORPTAL\SAPP17\480-BF-RawData\Organics\MISC-2

cal std - 33 1409µs @ 25°C (1278µs @ 20°C)
 daily cal 1260µs @ 21.3°C @

Wilkinson
 8/22/18
 07/03/2018

Worklist ID	Lims ID	Sample Reagents	Smp Type	Frac	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-001	# 1 Blank		Client	SV	5.000	mL	1.000
480-0068513-002	# 2 CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000
480-0068513-003	# 3 CCB		CCB	SV	5.000	mL	1.000
480-0068513-004	# 4 LCS	IC_ANION_LCS_00185	LCS	SV	5.000	mL	1.000
480-0068513-005	# 5 MB		MB	SV	5.000	mL	1.000
480-0068513-006	# 6 480-129878-E-1	2.69µs @ 1°C	Client	SV	5.000	mL	0.0
480-0068513-007	# 7 480-129878-E-3	2.63µs @ 19°C	Client	SV	5.000	mL	0.0
480-0068513-008	# 8 480-129879-E-1	1.28µs @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-009	# 9 480-129879-E-2	1028µs @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-010	# 10 480-129879-E-3	59.4µs @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-011	# 11 480-129879-E-4	220.5 @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-012	# 12 480-129879-E-4 MS	IC_ANION_STD_00027	MS	SV	5.000	mL	0.0
480-0068513-013	# 13 480-129879-E-4 MSD	IC_ANION_STD_00027	MSD	SV	5.000	mL	0.0
480-0068513-014	# 14 CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-015	#15 CCB		CCB	SV	5.000	mL	1.000
480-0068513-016	#16 480-129879-E-5	222 5017C	Client	SV	5.000	mL	0.0
480-0068513-017	#17 480-129879-E-6	open separator 37.9 5016C	Client	SV	5.000	mL	0.0
480-0068513-018	#18 480-129886-A-2	163 2 5 0200 (T)	Client	SV	5.000	mL	0.0
480-0068513-019	#19 480-129887-D-1		Client	SV	5.000	mL	1.000
480-0068513-020	#20 480-129887-D-2		Client	SV	5.000	mL	1.000
480-0068513-021	#21 480-129887-D-3	615 5 018C	Client	SV	5.000	mL	0.0
480-0068513-022	#22 480-129887-D-4		Client	SV	5.000	mL	1.000
480-0068513-023	#23 480-129887-D-5		Client	SV	5.000	mL	5.000
480-0068513-024	#24 480-129887-D-6	1138 5 018C	Client	SV	5.000	mL	0.0
480-0068513-025	#25 480-129887-D-6 MS	IC_ANION_STD_00027	MS	SV	5.000	mL	0.0
480-0068513-026	#26 CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000
480-0068513-027	#27 CCB		CCB	SV	5.000	mL	1.000
480-0068513-028	#28 LCS	IC_ANION_LCS_00185	LCS	SV	5.000	mL	1.000
480-0068513-029	#29 MB		MB	SV	5.000	mL	1.000
480-0068513-030	#30 480-129887-D-7	1152 5 018C	Client	SV	5.000	mL	0.0
480-0068513-031	#31 480-129887-D-8		Client	SV	5.000	mL	5.000
480-0068513-032	#32 480-129887-D-9		Client	SV	5.000	mL	1.000

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07/03/2018

Worksheet ID	Limbs ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-033	#33 480-129887-D-10	IC_ANION_STD_00027	Client	SV	5.000	mL	0.0
480-0068513-034	#34 480-129887-D-11	IC_ANION_STD_00027	Client	SV	5.000	mL	0.0
480-0068513-035	#35 480-129887-D-12	IC_ANION_STD_00027	Client	SV	5.000	mL	0.0
480-0068513-036	#36 480-129887-D-12 MS	IC_ANION_STD_00027	MS	SV	5.000	mL	0.0
480-0068513-037	#37 480-129887-D-12 MSD	IC_ANION_STD_00027	MSD	SV	5.000	mL	0.0
480-0068513-038	#38 CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000
480-0068513-039	#39 CCB	IC_ANION_LCS_00185	CCB	SV	5.000	mL	1.000
480-0068513-040	#40 480-129887-D-13	IC_ANION_STD_00027	Client	SV	5.000	mL	5.000
480-0068513-041	#41 480-129887-D-14	IC_ANION_STD_00027	Client	SV	5.000	mL	1.000
480-0068513-042	#42 480-129887-D-15	IC_ANION_STD_00027	Client	SV	5.000	mL	1.000
480-0068513-043	#43 480-129887-D-16	IC_ANION_STD_00027	Client	SV	5.000	mL	1.000
480-0068513-044	#44 480-129887-D-17	IC_ANION_STD_00027	Client	SV	5.000	mL	1.000
480-0068513-045	#45 480-129890-N-1	IC_ANION_STD_00027	Client	SV	5.000	mL	50.000
480-0068513-046	#46 480-129891-J-1	IC_ANION_STD_00027	Client	SV	5.000	mL	0.0
480-0068513-047	#47 480-129891-J-2	IC_ANION_STD_00027	Client	SV	5.000	mL	0.0
480-0068513-048	#48 480-129891-J-3	IC_ANION_STD_00027	Client	SV	5.000	mL	0.0
480-0068513-049	#49 480-129891-J-3 MS	IC_ANION_STD_00027	MS	SV	5.000	mL	0.0
480-0068513-050	#50 CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000

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07/03/2018
1/12/18

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-051	#51 CCB		CCB	sv	5.000	mL	1.000
480-0068513-052	#52 MeOH		Client	sv	5.000	mL	1.000
480-0068513-053	#53 MeOH		Client	sv	5.000	mL	1.000
480-0068513-054	#54 Blank		Client	sv	5.000	mL	1.000

Wilkinson

07/03/2018
11/20/18

Ion Chromatography Data Review Checklist

LIMS Batch Number: 395414	Filename: 68513	Instrument ID (circle one): IC3 IC4 IC2
Analyst/1 st Reviewer: CA	Method (circle): 300.0 314.0, 9056, 7199, SM4110	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) NA Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)					If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS) NA					If no, list details:
8. Pk Area:Height Difference (314.0 $PD_{A/H}$): Before samples $< 25\%$ NA					If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	Y			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

Ion Chromatography Data Review Checklist

LIMS Batch Number: <u>395415</u>	Filename: <u>68513</u>	Instrument ID (circle one): IC3 IC4 <u>IC2</u>
Analyst/1 st Reviewer: <u>CA</u>	Method (circle): 300.0, 314.0, 9056, 7199, <u>SM4110</u>	QC Type (circle): <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) <u>~A</u> Result < 1/2 RL (SM4110, 314.0, DoD or special project)					If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS) <u>~D</u>					If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples <u>~A</u> <25%					If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	Y			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

Ion Chromatography Data Review Checklist

LIMS Batch Number: 395416	Filename: 68513	Instrument ID (circle one): IC3 IC4 IC2
Analyst/1 st Reviewer: CA	Method (circle): 300.0, 314.0, 9056 , 7199, SM4110	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)	NA				If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	NA				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	NA				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	Y			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TesAmerica Laboratories
Worklist Report

Worklist Name: 20180111
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b
 Upload Directory: \\Corpt\AL\SAPP\17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 68513
 Chrom Method: IC2-300
 Units: ul



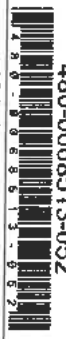



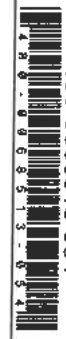

*cal std - 33 1409 μs @ 25°C (1278 μs @ 20°C)
 daily cal 1260 μs @ 21.3°C @*

07/03/2018

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-001	#1 Blank BLANK		Client	SV	5.000	mL	1.000
480-0068513-002	#2 CCV CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000
480-0068513-003	#3 CCB CCB		CCB	SV	5.000	mL	1.000
480-0068513-004	#4 LCS LCS	IC_ANION_LCS_00185	LCS	SV	5.000	mL	1.000
480-0068513-005	#5 MB MB		MB	SV	5.000	mL	1.000
480-0068513-006	#6 480-129878-E-1	2.69ms @ 21°C	Client	SV	5.000	mL	0.0
480-0068513-007	#7 480-129878-E-3	2.63ms @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-008	#8 480-129879-E-1	1.28ms @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-009	#9 480-129879-E-2	1028ms @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-010	#10 480-129879-E-3	59.4ms @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-011	#11 480-129879-E-4	220ms @ 18°C	Client	SV	5.000	mL	0.0
480-0068513-012	#12 480-129879-E-4 MS	IC_ANION_STD_00027	MS	SV	5.000	mL	0.0
480-0068513-013	#13 480-129879-E-4 MSD	IC_ANION_STD_00027	MSD	SV	5.000	mL	0.0
480-0068513-014	#14 CCV CCV	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-015	#15 CCB		CCB	SV	5.000	mL	1.000
480-0068513-016	#16 480-129879-E-5	2225017C	Client	SV	5.000	mL	0.0
480-0068513-017	#17 480-129879-E-6	open separator	Client	SV	5.000	mL	0.0
480-0068513-018	#18 480-129886-A-2	37.95016C	Client	SV	5.000	mL	0.0
480-0068513-019	#19 480-129887-D-1	16325020C	Client	SV	5.000	mL	0.0
480-0068513-020	#20 480-129887-D-2		Client	SV	5.000	mL	1.000
480-0068513-021	#21 480-129887-D-3		Client	SV	5.000	mL	0.0
480-0068513-022	#22 480-129887-D-4	6155018C	Client	SV	5.000	mL	0.0
480-0068513-023	#23 480-129887-D-5		Client	SV	5.000	mL	5.000
480-0068513-024	#24 480-129887-D-6		Client	SV	5.000	mL	0.0
480-0068513-025	#25 480-129887-D-6 MS	11385018C	Client	SV	5.000	mL	0.0
480-0068513-026	#26 CCV	IC_ANION_STD_00027	MS	SV	5.000	mL	0.0
480-0068513-027	#27 CCB	IC_ANION_LCS_00185	CCV	SV	5.000	mL	1.000
480-0068513-028	#28 LCS	IC_ANION_LCS_00185	CCB	SV	5.000	mL	1.000
480-0068513-029	#29 MB		LCS	SV	5.000	mL	1.000
480-0068513-030	#30 480-129887-D-7		MB	SV	5.000	mL	1.000
480-0068513-031	#31 480-129887-D-8	11525018C	Client	SV	5.000	mL	0.0
480-0068513-032	#32 480-129887-D-9		Client	SV	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-033	#33 480-129887-D-10	876 5017c	Client	250	5.000	5mL	1.000
480-0068513-034	#34 480-129887-D-11		Client		5.000	5mL	1.000
480-0068513-035	#35 480-129887-D-12	602 5019c	Client	1000	5.000	5mL	0.0
480-0068513-036	#36 480-129887-D-12 MS		MS		5.000	5mL	0.0
480-0068513-037	#37 480-129887-D-12 MSD		MSD		5.000	5mL	0.0
480-0068513-038	#38 CCB	IC_ANION_LCS_00185	CCV		5.000	mL	1.000
480-0068513-039	#39 CCB		CCB		5.000	mL	1.000
480-0068513-040	#40 480-129887-D-13		Client		5.000	mL	5.000
480-0068513-041	#41 480-129887-D-14		Client	1000	5.000	5mL	1.000
480-0068513-042	#42 480-129887-D-15		Client		5.000	mL	1.000
480-0068513-043	#43 480-129887-D-16		Client		5.000	mL	1.000
480-0068513-044	#44 480-129887-D-17		Client		5.000	mL	1.000
480-0068513-045	#45 480-129890-N-1		Client		5.000	mL	50.00
480-0068513-046	#46 480-129891-J-1	135 6 5020c	Client	250	5.000	5mL	0.0
480-0068513-047	#47 480-129891-J-2	138 3 5020c	Client		5.000	mL	0.0
480-0068513-048	#48 480-129891-J-3	129 4 5019c	Client		5.000	mL	0.0
480-0068513-049	#49 480-129891-J-3 MS		MS		5.000	mL	0.0
480-0068513-050	#50 CCB	IC_ANION_LCS_00185	CCV		5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0068513-051 	#51 CCB 		CCB	sv	5.000	mL	1.000
480-0068513-052 	#52 MeOH 		Client	sv	5.000	mL	1.000
480-0068513-053 	#53 MeOH 		Client	sv	5.000	mL	1.000
480-0068513-054 	#54 Blank 		Client	sv	5.000	mL	1.000

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_230.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jan-2018 11:10:50 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 230 Name: CCV
 Misc. Info.: Study: 480-0068513-002 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 13:22:03 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 13:22:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.597	2.597	0.000	272102	5.00	4.68	M
2 Chloride						
3.367	3.367	0.000	1773112	50.0	49.8	
3 Bromide						
4.733	4.733	0.000	56099	5.00	4.85	
4 Nitrate as N						
4.933	4.933	0.000	389491	NC	NC	
5 Sulfate						
5.250	5.250	0.000	1432200	50.0	53.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00185 Amount Added: 5.00 Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_230.d

Injection Date: 11-Jan-2018 11:10:50

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 2

Client ID:

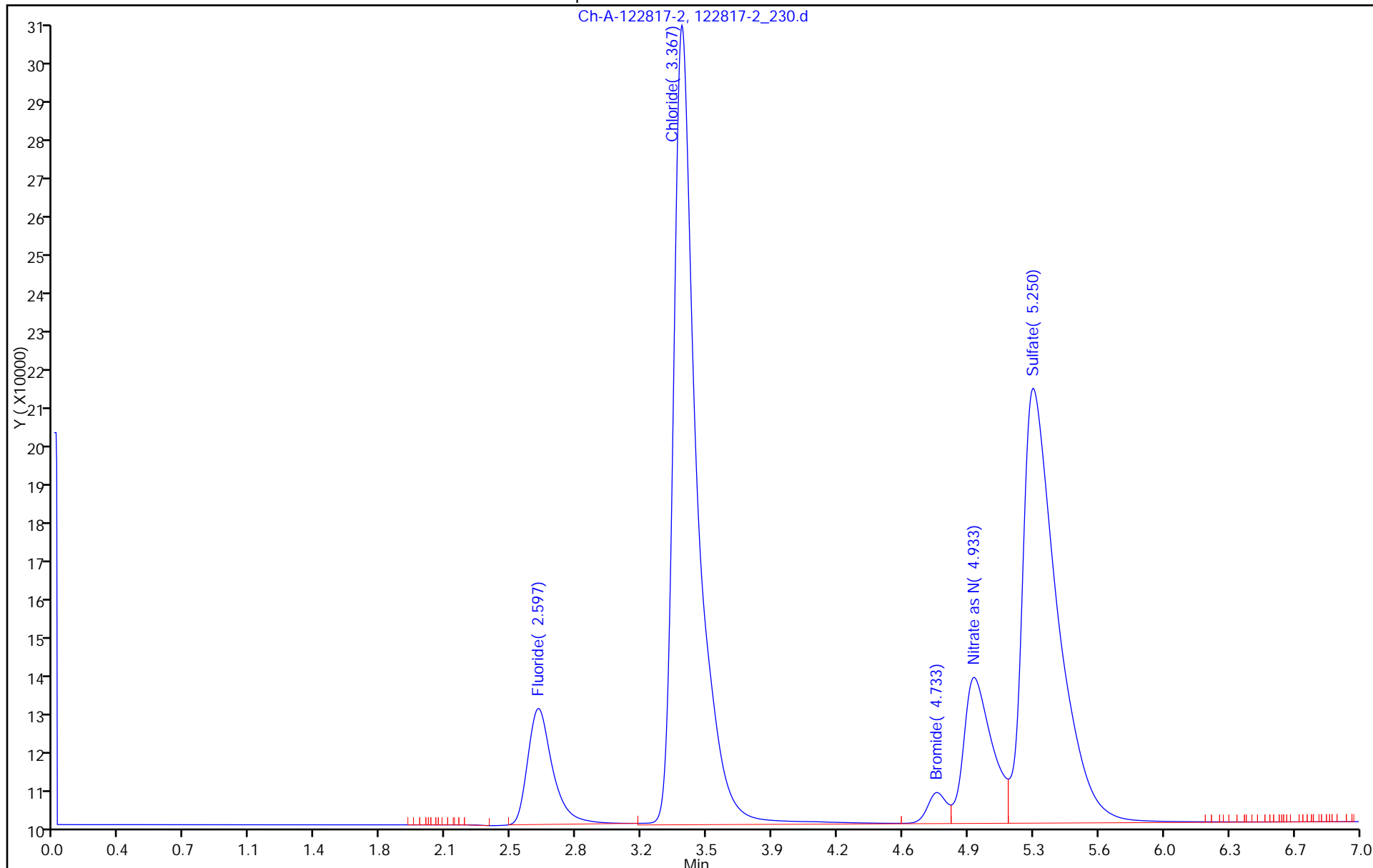
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_231.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 11-Jan-2018 11:18:59 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 231 Name: CCB
 Misc. Info.: Study: 480-0068513-003 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 11:29:37 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 13:34:34

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 Chloride						
3.377	3.367	0.010	1467		0.0412	
5 Sulfate						
5.400	5.250	0.150	6940		-0.2109	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_231.d

Injection Date: 11-Jan-2018 11:18:59

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 3

Client ID:

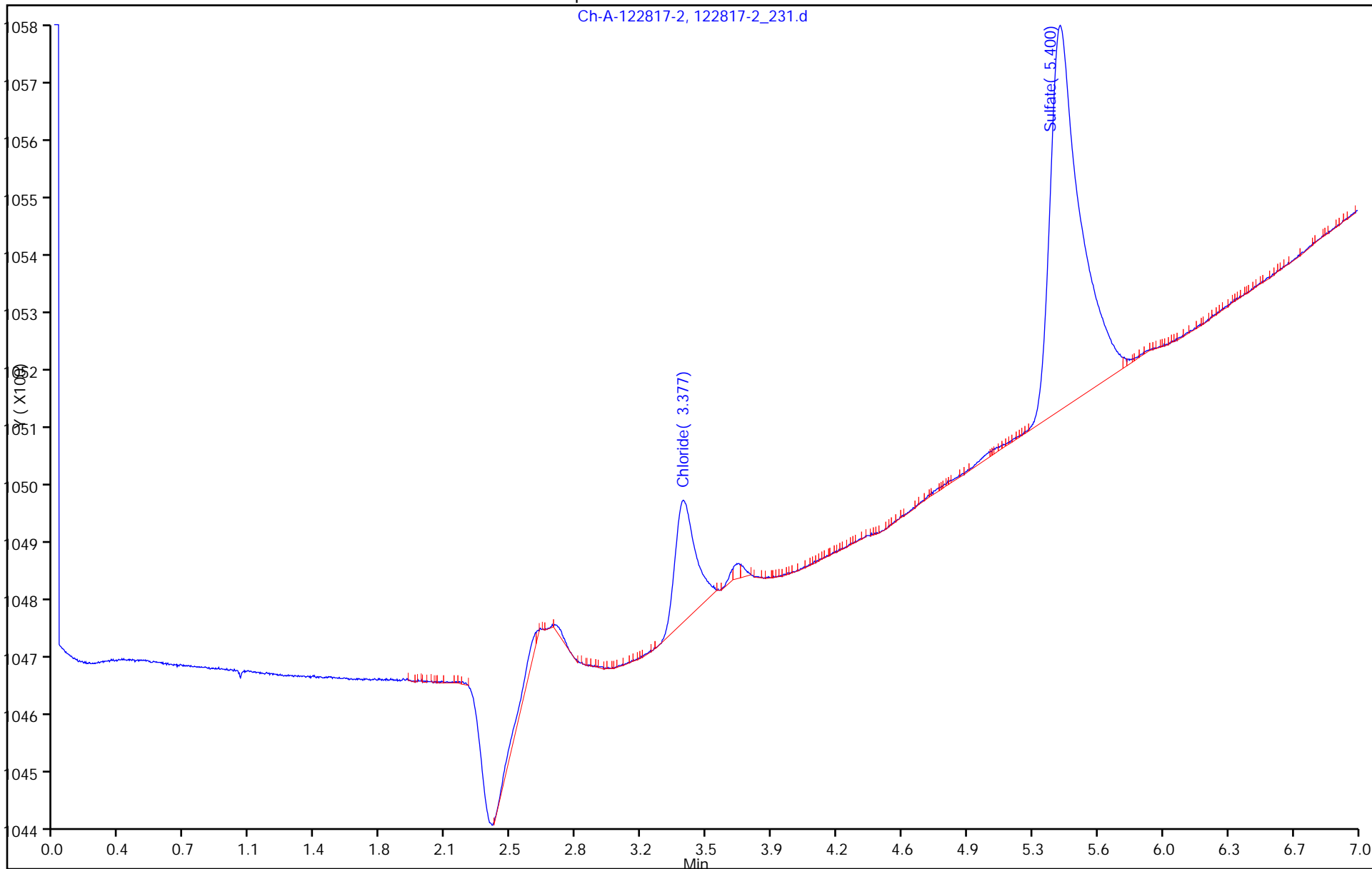
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_232.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Jan-2018 11:27:07 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 232 Name: LCS
 Misc. Info.: Study: 480-0068513-004 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 12:04:03 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 12:04:02

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.597	2.597	0.000	274364	5.00	4.71	M
2 Chloride						
3.367	3.367	0.000	1781761	50.0	50.0	
3 Bromide						
4.733	4.733	0.000	55851	5.00	4.83	
4 Nitrate as N						
4.933	4.933	0.000	390940	NC	NC	
5 Sulfate						
5.250	5.250	0.000	1441293	50.0	53.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00185

Amount Added: 5.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_232.d

Injection Date: 11-Jan-2018 11:27:07

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: LCS

Worklist Smp#: 4

Client ID:

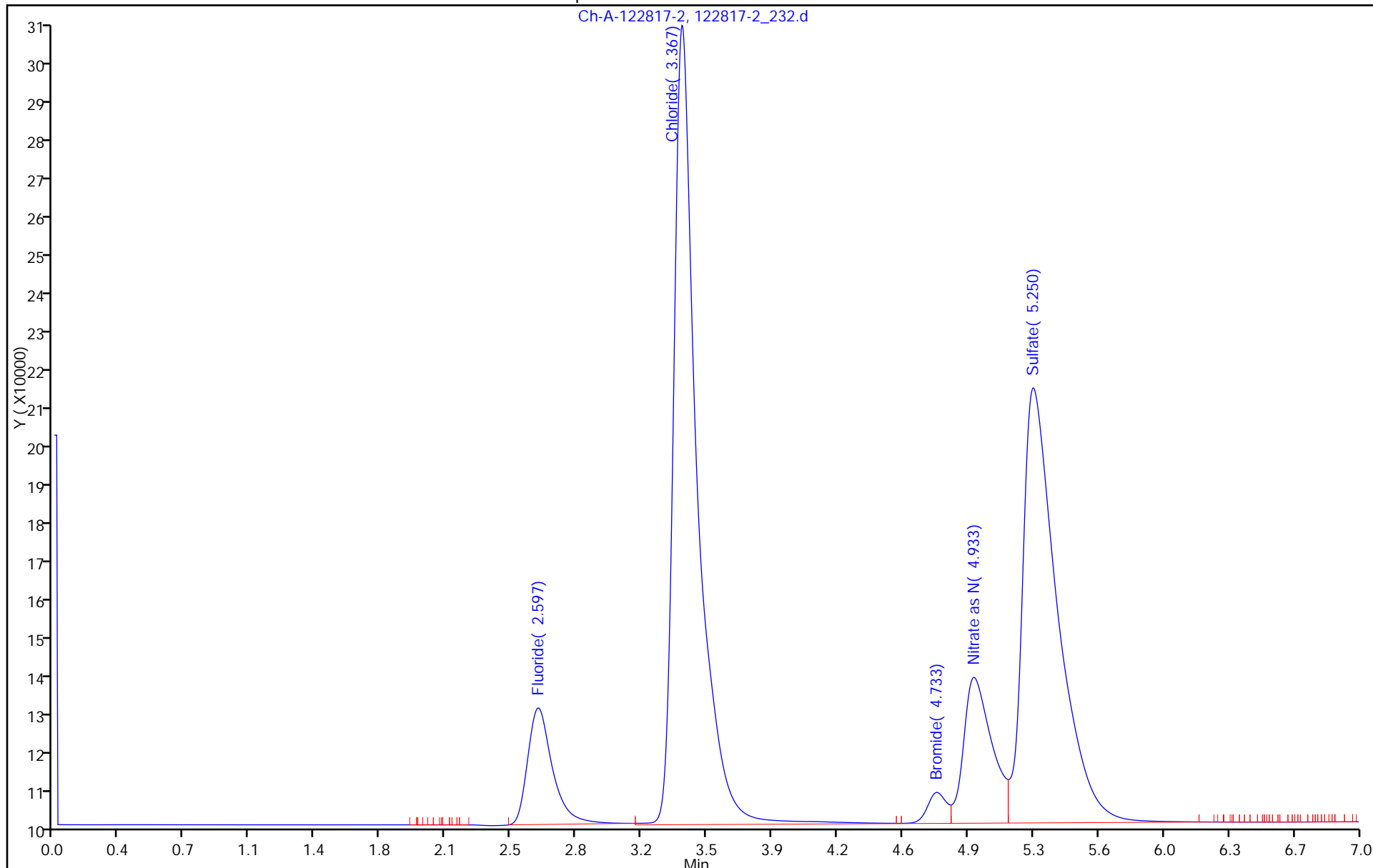
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_233.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 11-Jan-2018 11:35:16 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 233 Name: MB
 Misc. Info.: Study: 480-0068513-005 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 13:23:42 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 15:24:38

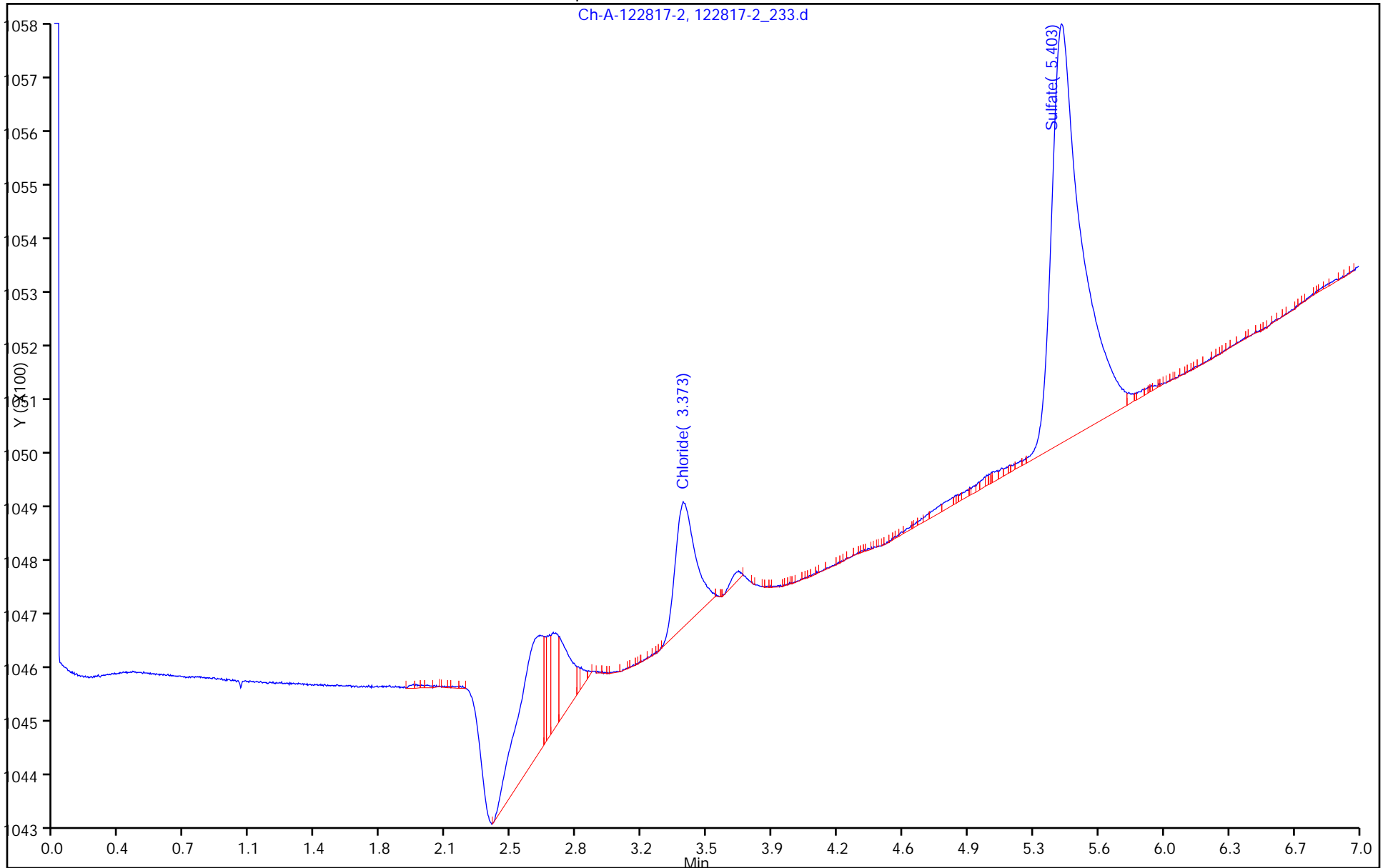
RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 Chloride						
3.373	3.367	0.006	1549		0.0435	
5 Sulfate						
5.403	5.263	0.140	7908		-0.1744	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_233.d
Injection Date: 11-Jan-2018 11:35:16 Instrument ID: IC-2
Lims ID: MB
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: tchrom
Worklist Smp#: 5
ALS Bottle#: 0



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_234.d
 Lims ID: 480-129878-E-1
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 11-Jan-2018 11:43:24 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 234 Name: 480-129878-E-1
 Misc. Info.: Study: 480-0068513-006 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 13:39:14 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 13:37:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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1 Fluoride					M
2.643	2.597	0.046	28158	0.4838	M
2 Chloride					
3.367	3.367	0.000	1989203	55.8	
4 Nitrate as N					
4.977	4.933	0.044	89	NC	
5 Sulfate					
5.387	5.250	0.137	13838	0.0493	

QC Flag Legend

Processing Flags

NC - Not Calibrated

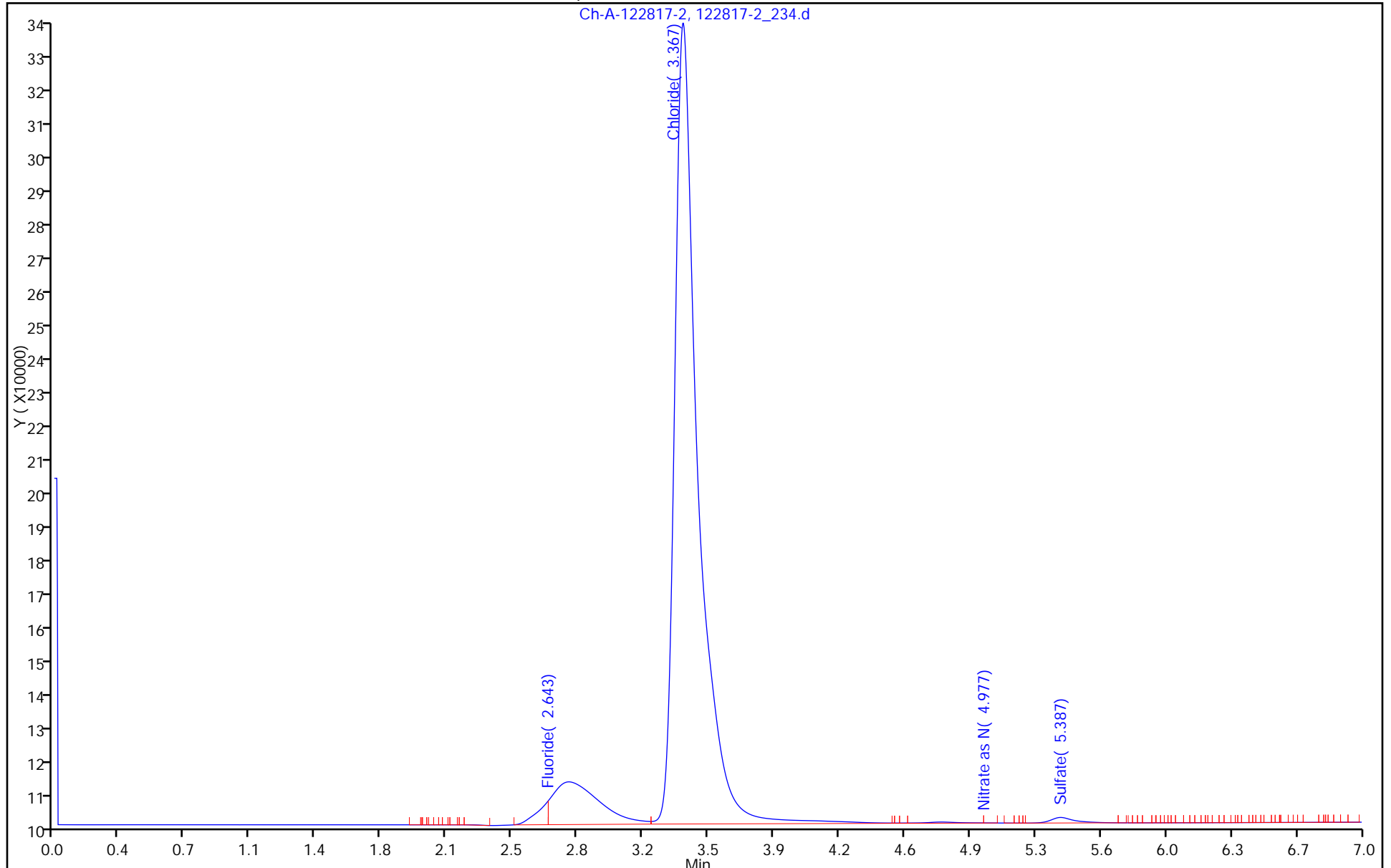
Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_234.d
Injection Date: 11-Jan-2018 11:43:24 Instrument ID: IC-2
Lims ID: 480-129878-E-1 Lab Sample ID: 480-129878-1
Client ID: ML-71
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: tchrom
Worklist Smp#: 6
ALS Bottle#: 0



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_235.d
 Lims ID: 480-129878-E-3
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 11-Jan-2018 11:51:33 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 235 Name: 480-129878-E-3
 Misc. Info.: Study: 480-0068513-007 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 13:41:43 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 13:41:43

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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1 Fluoride					M
2.733	2.597	0.136	123594	2.12	M
2 Chloride					M
3.367	3.367	0.000	1501222	42.1	M
4 Nitrate as N					
4.997	4.933	0.064	21373	NC	
5 Sulfate					
5.337	5.250	0.087	415036	15.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

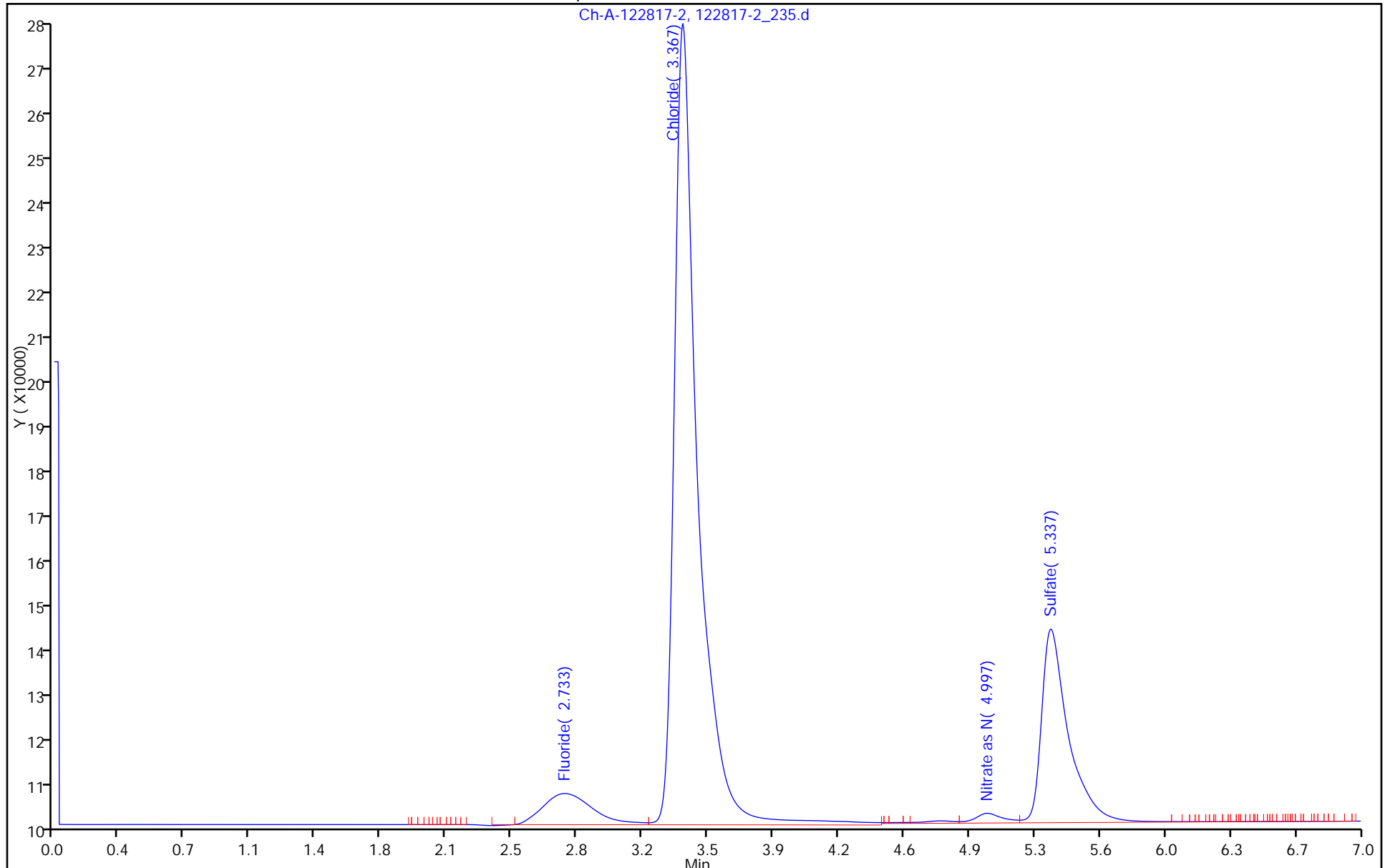
Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_235.d
Injection Date: 11-Jan-2018 11:51:33 Instrument ID: IC-2
Lims ID: 480-129878-E-3 Lab Sample ID: 480-129878-3
Client ID: ML-7D
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: tchrom
Worklist Smp#: 7
ALS Bottle#: 0



TestAmerica Buffalo

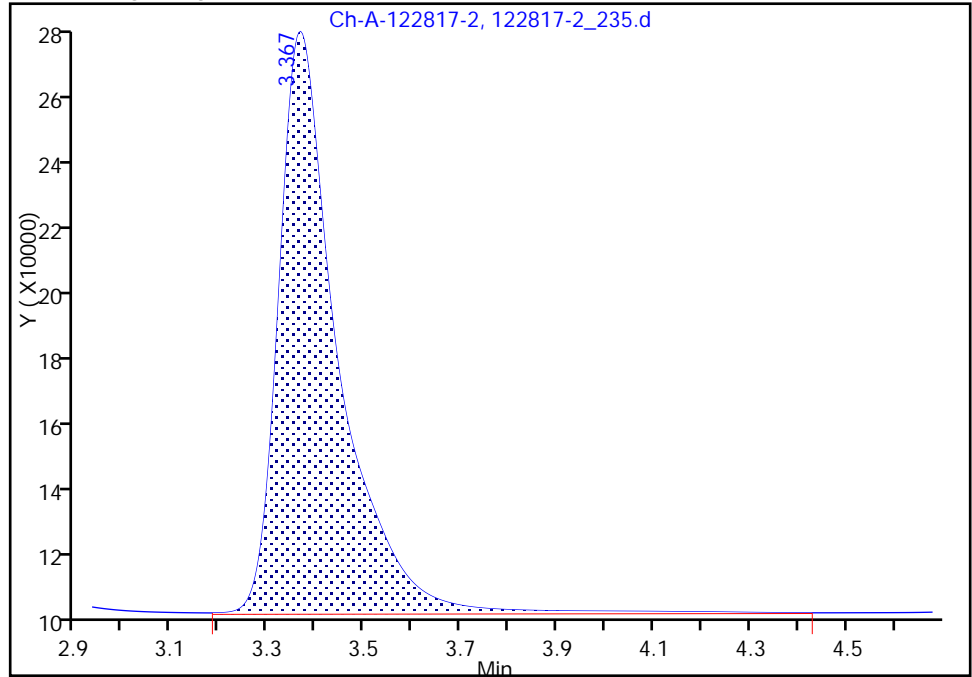
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Injection Date: 11-Jan-2018 11:51:33 Instrument ID: IC-2
Lims ID: 480-129878-E-3 Lab Sample ID: 480-129878-3
Client ID: ML-7D
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

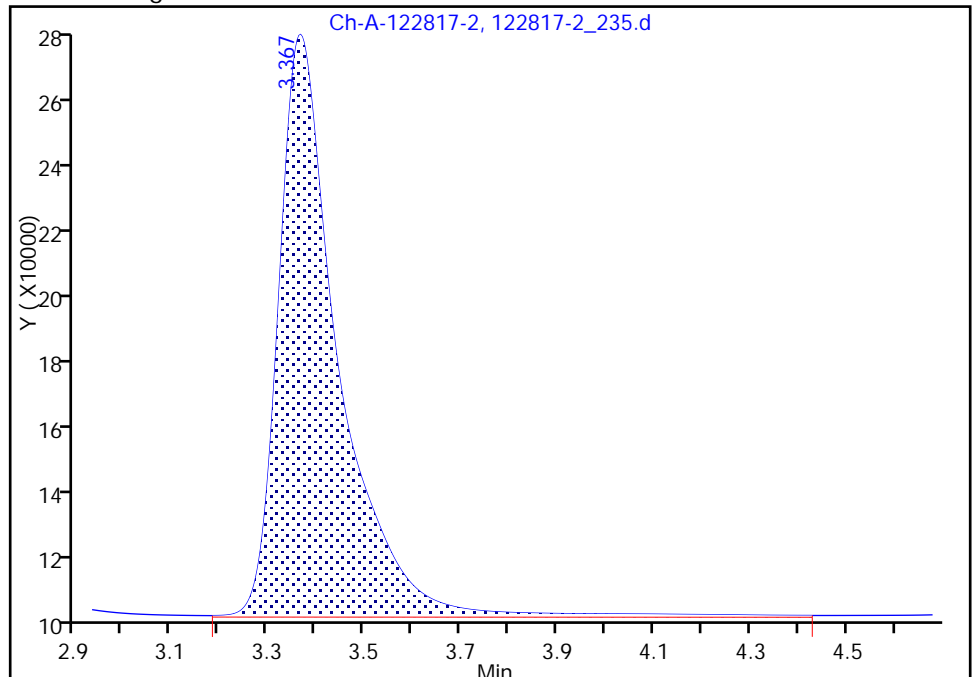
RT: 3.37
Area: 1489740
Amount: 41.805556
Amount Units: ng/uL

Processing Integration Results



RT: 3.37
Area: 1501222
Amount: 42.127767
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 11-Jan-2018 13:40:11
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_242.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 11-Jan-2018 12:48:31 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 242 Name: CCV
 Misc. Info.: Study: 480-0068513-014 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 13:47:54 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 13:47:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.590	2.590	0.000	274260	5.00	4.71	M
2 Chloride						M
3.363	3.363	0.000	1793928	50.0	50.3	M
3 Bromide						
4.730	4.730	0.000	54326	5.00	4.70	
4 Nitrate as N						
4.930	4.930	0.000	394205	NC	NC	
5 Sulfate						
5.243	5.243	0.000	1424010	50.0	53.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00185 Amount Added: 5.00 Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_242.d

Injection Date: 11-Jan-2018 12:48:31

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 14

Client ID:

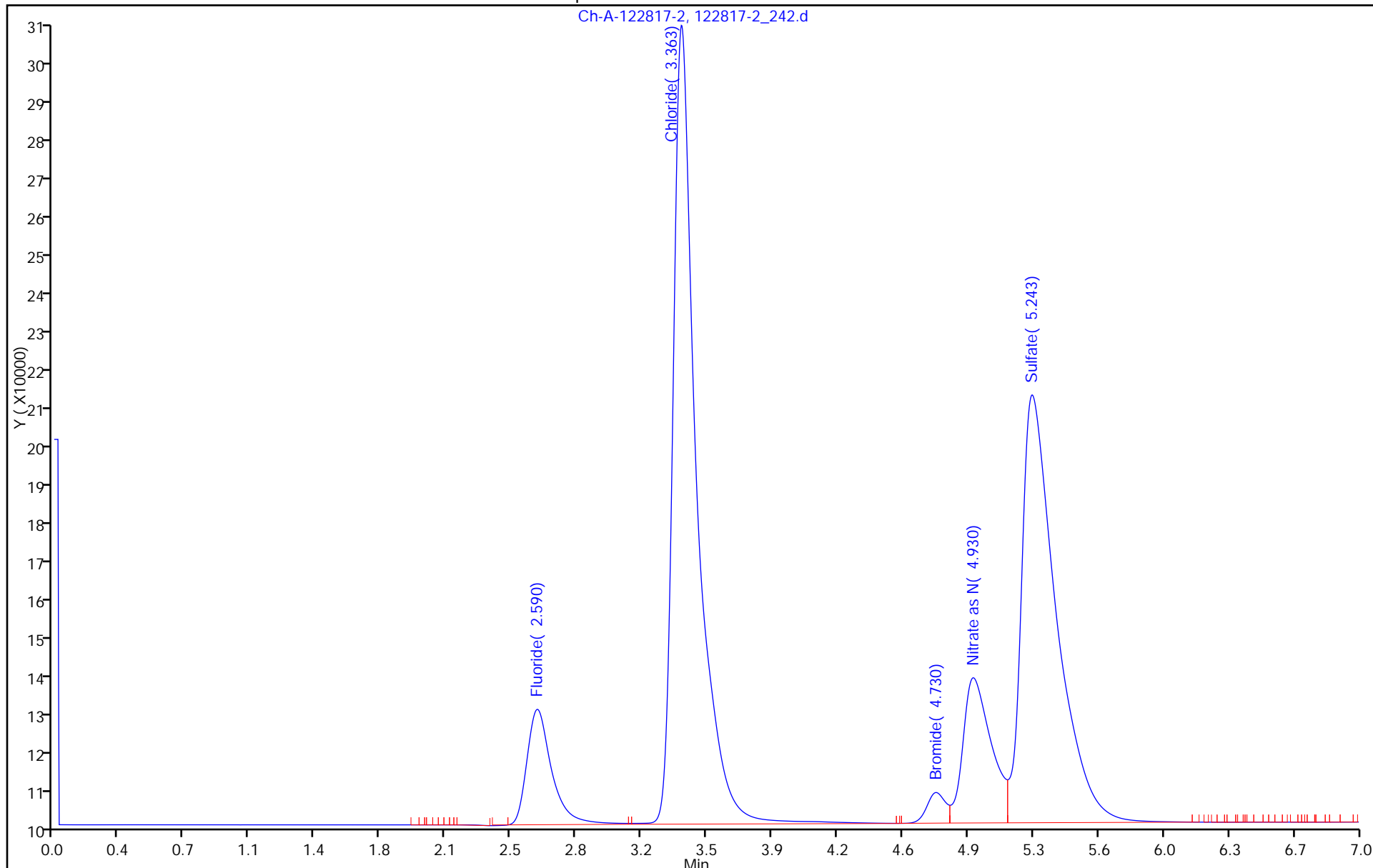
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

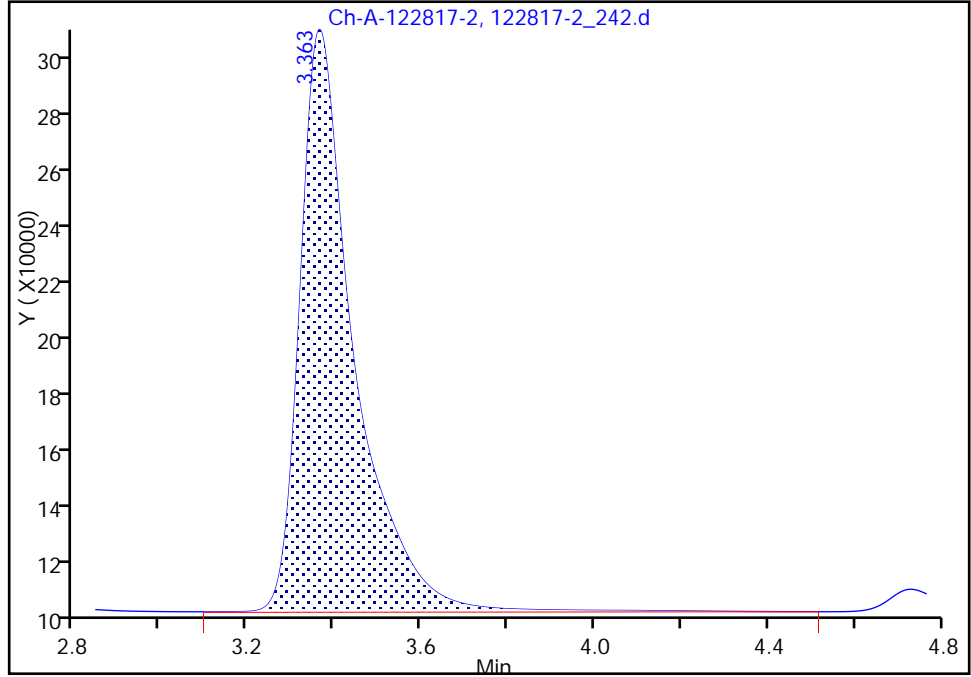
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_242.d
Injection Date: 11-Jan-2018 12:48:31 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

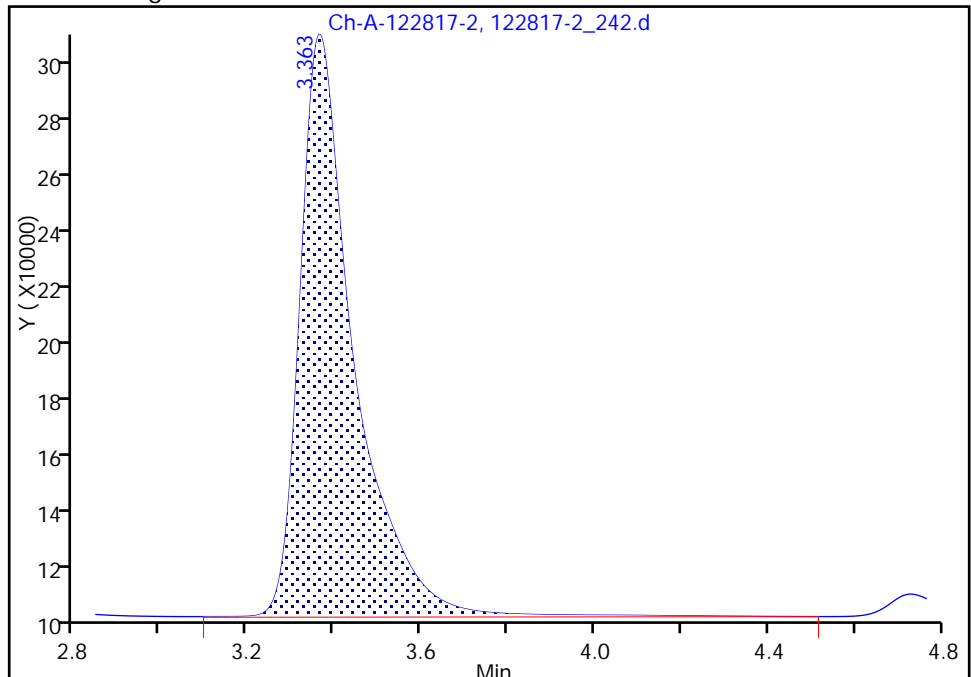
RT: 3.36
Area: 1792011
Amount: 50.287980
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 1793928
Amount: 50.341776
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 11-Jan-2018 13:47:32
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_243.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 11-Jan-2018 12:56:40 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 243 Name: CCB
 Misc. Info.: Study: 480-0068513-015 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 11-Jan-2018 13:48:12 Calib Date: 15-Dec-2017 16:21:50
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20171215-68016.b\121317-2_223.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK001

First Level Reviewer: abramoc Date: 11-Jan-2018 13:48:12

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

2 Chloride						
3.373	3.363	0.010	1663		0.0467	
5 Sulfate						
5.427	5.243	0.184	4380		-0.3074	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180111-68513.b\122817-2_243.d

Injection Date: 11-Jan-2018 12:56:40

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 15

Client ID:

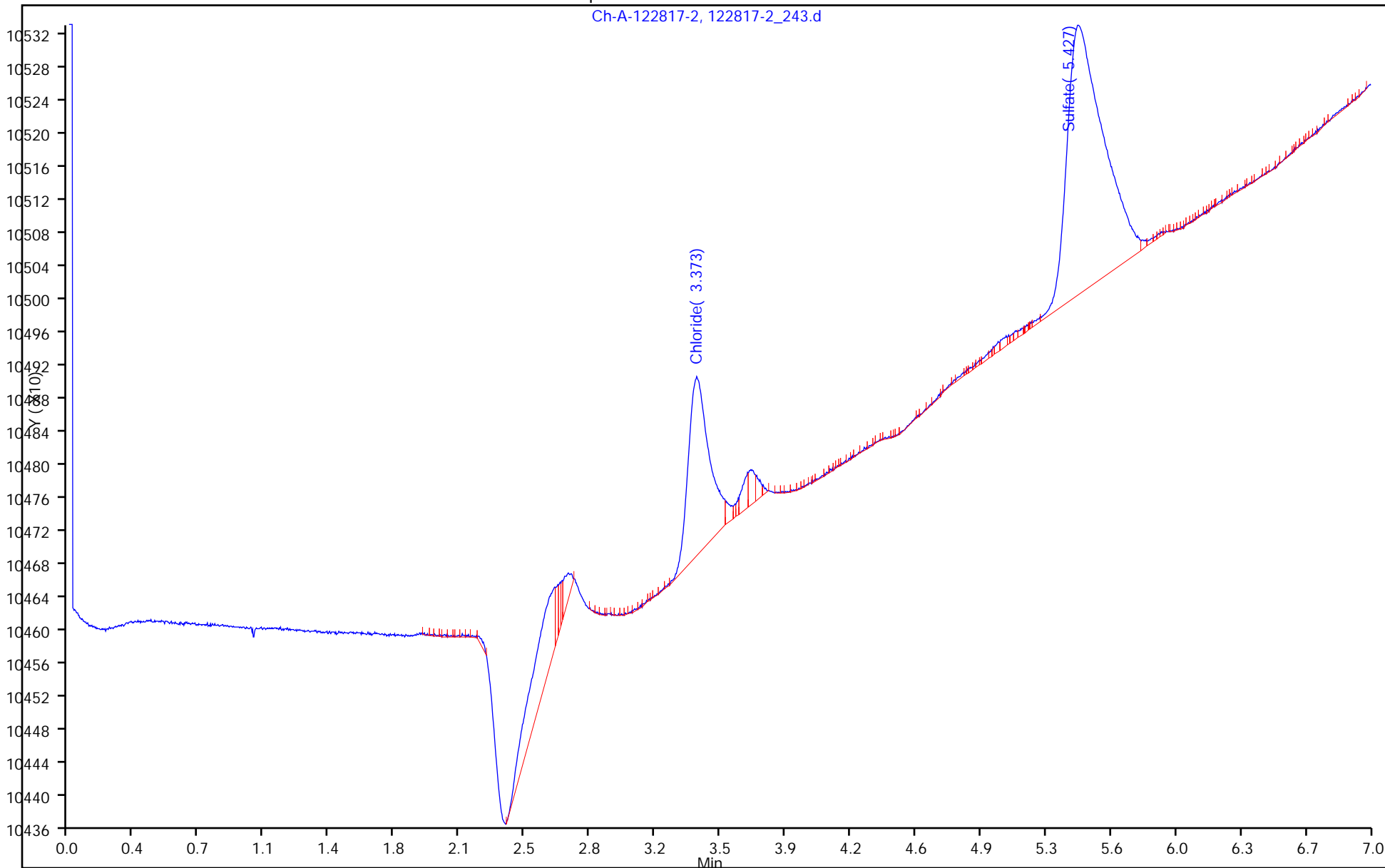
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



Laboratory Bench Sheet
FERROUS IRON
Genesys 3

TestAmerica - Buffalo
391227

Analyst:	LED	Calibration Curve Information		
Start Date:	12/7/2017		Conc.(mg/L)	ABS.
Start Time:	19:40	STD1	0.000	0.000
End Time:		Std. 2	0.100	0.025
		Std. 3	0.500	0.085
DATE OF CURVE=	12/7/2017	Std. 4	1.000	0.152
		Std. 5	3.000	0.362

CURVESoln:
4412164

BATCH # 27

Instrument Information	
Instrument:	Genesys 3
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9955
Slope:	0.11760
Intercept:	0.01660

PIPETTE **M108 24P/L123070**

Reagents Used Solution ID#
 Ferrous Iron Reagent Powder Pillow 3188798
 exp dec 2020

EQL: 0.10 mg/L

LCS Information:
 Solution # **140763** 4412164
 1.4156g of FAS(3916794) up to 1L made on 12-7-17
 Concentration (mg/L): 2
 LCS True value: 2.00

Matrix Spike Information:
 Solution # **140763** 4412164
 1.4156g of FAS(3916794) up to 1L made on 12-7-17
 Concentration (mg/L): 1
 MS True Value 1.00

1.4038g
12/7/17

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
IC	0.0mg/L	25	0.000		0.000	1	ND	ND		
IC	0.100mg/L	25	0.016		0.016	1	-0.0051	ND		.05mL → 100mL
IC	0.500mg/L	25	0.069		0.069	1	0.4455	0.446		.25mL → 100mL
IC	1.000mg/L	25	0.120		0.120	1	0.8792	0.879		.50mL → 100mL
IC	3.000mg/L	25	0.343		0.343	1	2.7754	2.775		1.50 mL → 100mL
ICV	2.000mg/L	25	0.237 *		0.237	1	1.8740	1.874		0.25mL → 25mL
ICB	blank	25	0.000		0.000	1	ND	ND		12/7/17
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

12/18/17

FERROUS IRON

Genesys 3

396053

Analyst:	LED	Calibration Curve Information		
Start Date:	1/16/2018		Conc. (mg/L)	ABS.
Start Time:	17:00	STD1	0.000	0.000
End Time:	17:58	Std. 2	0.100	0.016
		Std. 3	0.500	0.068
DATE OF CURVE=	12/7/2017	Std. 4	1.000	0.120
		Std. 5	3.000	0.343

CURVESoln:
4412164

BATCH #	
Instrument Information	
Instrument:	Genesys 3
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9995
Slope:	0.11286
Intercept:	0.00667

PIPETTE		
EQL:	0.10	mg/L
ICV INFORMATION		
Solution #	4412163	
1.4038g of FAS 3305340 UP TO 1L		
Concentration (mg/L)	2.00	
ICV	True value:	2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	3188798
	EXP DEC 2020

LCS Information:	
Solution #	4412164
1.4018g of FAS 3916794 TO 1L ON 1-16-18	
Concentration (mg/L):	2
LCS	True value:
	2.00

Matrix Spike Information:	
Solution #	4412164
1.4018g of FAS 3916794 UP 1L ON 1-16-18	
Concentration (mg/L):	1
MS	True Value
	1.00

Job #	Sample ID	Sample	Sample	Blank	Corrected	D.F.	Curve Conc.	Final Conc.	% Rec.	Comments
		Volume	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		
		(mL)								
CCV	2 PPM	25	0.217		0.217	1	1.8708	1.871		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
MB	BLANK	25	0.000		0.000	1	ND	ND		
LCS	2 PPM	25	0.216		0.216	1	1.8619	1.862	93%	
129717	A-4 MDLS	25	0.012		0.012	1	0.0560	ND		
129717	A-5 MDLS	25	0.012		0.012	1	0.0560	ND		
129878	D-1	25	0.031	0.021	0.010	1	0.0383	ND		
129878	D-1 DU	25	0.032	0.023	0.009	1	0.0294	ND		
129878	D-3	25	0.012	0.006	0.006	1	0.0029	ND		
129878	D-3 MS	25	0.046	0.013	0.033	1	0.2419	0.242		
129748	D-1	25	0.123	0.027	0.096	1	0.7996	0.800		
129748	D-3	25	0.030	0.021	0.009	1	0.0294	ND		
CCV	2PPM	25	0.217		0.217	1	1.8708	1.871		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
129748	D-4	25	0.218	0.210	0.008	1	0.0206	ND		
129748	D-5	25	0.084	0.060	0.004	1	-0.0148	ND		
129748	D-6	25	0.012	0.005	0.007	1	0.0117	ND		
CCV	2 PPM	25	0.225		0.225	1	1.9416	1.942		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

LD 1/10/18

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 395257 Batch Start Date: 01/10/18 11:56 Batch Analyst: Thomas, Christine L

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Nitrite CCV 00790	WC_NO2INT_WRK 00339		
CCV 480-395257/1		353.2		5 mL	5 mL	# mL			
CCB 480-395257/2		353.2		5 mL	5 mL				
MB 480-395257/3		353.2		5 mL	5 mL				
LCS 480-395257/4		353.2		5 mL	5 mL	# mL			
480-129878-C-1	ML-7I	353.2	T	5 mL	5 mL				
480-129878-C-3	ML-7D	353.2	T	5 mL	5 mL				
480-129878-C-3 DU	ML-7D	353.2	T	5 mL	5 mL				
480-129878-C-3 MS	ML-7D	353.2	T	5 mL	5 mL		50 uL		
CCV 480-395257/9		353.2		5 mL	5 mL	# mL			
CCB 480-395257/10		353.2		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 395879 Batch Start Date: 01/15/18 11:30 Batch Analyst: Leader, Michael D

Batch Method: SM 4500 S2 F Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount
CCV 480-395879/1		SM 4500 S2 F		0 mL	3.0 mL	5 mL	3 mL	100 mL	100 mL
CCB 480-395879/2		SM 4500 S2 F		3.0 mL	4.0 mL	1 mL	1 mL	100 mL	100 mL
MB 480-395879/3		SM 4500 S2 F		4.0 mL	5.1 mL	1 mL	1.1 mL	100 mL	100 mL
LCS 480-395879/4		SM 4500 S2 F		5.1 mL	8.3 mL	5 mL	3.2 mL	100 mL	100 mL
480-129878-B-1	ML-7I	SM 4500 S2 F	T	8.3 mL	9.3 mL	1 mL	1 mL	100 mL	100 mL
480-129878-B-3	ML-7D	SM 4500 S2 F	T	9.3 mL	10.4 mL	1 mL	1.1 mL	100 mL	100 mL
CCV 480-395879/13		SM 4500 S2 F		18.1 mL	21.1 mL	5 mL	3 mL	100 mL	100 mL
CCB 480-395879/14		SM 4500 S2 F		21.1 mL	22.1 mL	1 mL	1 mL	100 mL	100 mL
CCV 480-395879/22		SM 4500 S2 F		31.6 mL	34.6 mL	5 mL	3 mL	100 mL	100 mL
CCB 480-395879/23		SM 4500 S2 F		34.6 mL	35.6 mL	1 mL	1 mL	100 mL	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00179	Sulfide LCS 00180				
CCV 480-395879/1		SM 4500 S2 F		1 mL					
CCB 480-395879/2		SM 4500 S2 F							
MB 480-395879/3		SM 4500 S2 F							
LCS 480-395879/4		SM 4500 S2 F			1 mL				
480-129878-B-1	ML-7I	SM 4500 S2 F	T						
480-129878-B-3	ML-7D	SM 4500 S2 F	T						
CCV 480-395879/13		SM 4500 S2 F		1 mL					
CCB 480-395879/14		SM 4500 S2 F							
CCV 480-395879/22		SM 4500 S2 F		1 mL					
CCB 480-395879/23		SM 4500 S2 F							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 395879 Batch Start Date: 01/15/18 11:30 Batch Analyst: Leader, Michael D

Batch Method: SM 4500 S2 F Batch End Date: _____

Batch Notes	
Normality of Iodine Solution	0.025 N
Nominal Amount Used	100 mL
Normality of First Titrant	0.025 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 395283 Batch Start Date: 01/10/18 13:24 Batch Analyst: Thomas, Christine L

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-129878-C-1	ML-7I	353.2	T	5 mL	5 mL				
480-129878-C-3	ML-7D	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 392306 Batch Start Date: 12/15/17 15:41 Batch Analyst: Abramo, Charles L

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STD 00027				
IC 480-392306/6		9056A		5 mL	2.5 uL				
IC 480-392306/7		9056A		5 mL	5 uL				
IC 480-392306/8		9056A		5 mL	25 uL				
IC 480-392306/9		9056A		5 mL	100 uL				
IC 480-392306/10		9056A		5 mL	250 uL				
IC 480-392306/11		9056A		5 mL	500 uL				

Batch Notes	
Eluent 1 ID	170531264012

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 395416 Batch Start Date: 01/11/18 11:10 Batch Analyst: Abramo, Charles L

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION LCS_00185				
CCV 480-395416/2		9056A		5 mL	5 mL				
CCB 480-395416/3		9056A		5 mL					
LCS 480-395416/4		9056A		5 mL	5 mL				
MB 480-395416/5		9056A		5 mL					
480-129878-E-1	ML-7I	9056A	T	5 mL					
480-129878-E-3	ML-7D	9056A	T	5 mL					
CCV 480-395416/14		9056A		5 mL	5 mL				
CCB 480-395416/15		9056A		5 mL					

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	9849824

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 391227 Batch Start Date: 12/07/17 19:40 Batch Analyst: Dobe, Laura E

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg	FE 200ppm ICV 00006		
IC 480-391227/1		SM 3500 FE D		100 mL	100 mL	Color Resp. is Blank			
IC 480-391227/2		SM 3500 FE D		100 mL	100 mL	Color Resp. is Blank	0.05 mL		
IC 480-391227/3		SM 3500 FE D		100 mL	100 mL	Color Resp. is Blank	0.25 mL		
IC 480-391227/4		SM 3500 FE D		100 mL	100 mL	Color Resp. is Blank	0.5 mL		
IC 480-391227/5		SM 3500 FE D		100 mL	100 mL	Color Resp. is Blank	1.5 mL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Batch Number: 396053 Batch Start Date: 01/16/18 17:00 Batch Analyst: Dobe, Laura E

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00006
CCV 480-396053/1		SM 3500 FE D		25 mL	25 mL		.217 Absorbance	OK w/o Correction	0.25 mL
CCB 480-396053/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-396053/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-396053/4		SM 3500 FE D		25 mL	25 mL		.216 Absorbance	OK w/o Correction	0.25 mL
480-129878-D-1	ML-7I	SM 3500 FE D	T	25 mL	25 mL	.021 Absorbance	.031 Absorbance	OK	
480-129878-D-1 DU	ML-7I	SM 3500 FE D	T	25 mL	25 mL	.023 Absorbance	.032 Absorbance	OK	
480-129878-C-3	ML-7D	SM 3500 FE D	T	25 mL	25 mL	.006 Absorbance	.012 Absorbance	OK	
480-129878-C-3 MS	ML-7D	SM 3500 FE D	T	25 mL	25 mL	.013 Absorbance	.046 Absorbance	OK	0.125 mL
CCV 480-396053/13		SM 3500 FE D		25 mL	25 mL		.217 Absorbance	OK w/o Correction	0.25 mL
CCB 480-396053/14		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Buffalo, NY 14226
Phone: 716.631.2000 Fax: 716.631.7991

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-2210 (0718)

Regulatory Program: DW NPDES RCRA Other: _____

Project Manager: Don Noll Site Contact: Ann Aquilina Date: 1/9/18

Tel/Fax: _____ Lab Contact: Melissa Devo Carrier: Fed Ex

Analysis Turnaround Time: _____

CALENDAR DAYS WORKING DAYS

TAT is different from Below: _____

2 weeks 1 week 2 days 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (COC, G, O-Quat)	Matrix	# of Cont.	Perform MS / MSD (Y / N)		Filtered Sample (Y / N)	Job / SDG No.:
						Y	N		
ML-7I	1/8/18	1110	G	GW	11	X	X	X	* 16058 Sample Specific Notes: 480-128878 COC
ML-7I MS	1/8/18	1110	G	GW	3	X	X		
ML-7I MSD	1/8/18	1110	G	GW	3	X	X		
Dupe 2	1/8/18		G	GW	3	X	X		
ML-7D	1/8/18	1355	G	GW	11	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=MeOH; 6= Other

Possible Hazard Identification: _____

Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-hazard Flammable Skin Irritant Poison B Inorganic

Special Instructions/QC Requirements & Comments: Try blank in cooler. Require ASP Cat B report for TEL via only. Email results to aquilina@labapp.com

Custody Seal No.: _____

Custody Seals Intact: Yes No

Relinquished by: [Signature] Date/Time: 1-9-18 1400

Relinquished by: [Signature] Date/Time: 1-10-18 1000

Relinquished by: _____ Date/Time: _____

Received by: Fed Ex Company: _____

Received by: [Signature] Company: Fed Ex

Received in Laboratory by: _____ Company: _____

#A 314

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-129878-1

Login Number: 129878
List Number: 1
Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo

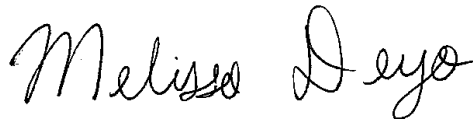
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Labella
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-129994-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
7/3/2018 8:25 AM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
07/03/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
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Job Narrative
480-129994-1

Receipt

The samples were received on 1/11/2018 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

Method(s) 8260C: The following volatile samples were analyzed with significant headspace in the sample container: ML-7S (480-129994-1) and TRIP BLANK (480-129994-2). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129994-1	ML-7S	Water	01/09/18 12:20	01/11/18 09:15
480-129994-2	TRIP BLANK	Water	01/09/18 00:00	01/11/18 09:15

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Client Sample ID: ML-7S

Lab Sample ID: 480-129994-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	420		10	1.3	ug/L	1		8260C	Total/NA
2-Hexanone	1.6	J	5.0	1.2	ug/L	1		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	4.0	J	5.0	2.1	ug/L	1		8260C	Total/NA
Acetone	210		10	3.0	ug/L	1		8260C	Total/NA
Benzene	3.3		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	1.3		1.0	0.19	ug/L	1		8260C	Total/NA
Chloroethane	0.80	J	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.0		1.0	0.81	ug/L	1		8260C	Total/NA
Ethylbenzene	0.96	J	1.0	0.74	ug/L	1		8260C	Total/NA
Isopropylbenzene	2.9		1.0	0.79	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.36	J	1.0	0.16	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.35	J	1.0	0.16	ug/L	1		8260C	Total/NA
Methylene Chloride	3.2		1.0	0.44	ug/L	1		8260C	Total/NA
Toluene	1.5		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.6		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-129994-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Client Sample ID: ML-7S
Date Collected: 01/09/18 12:20
Date Received: 01/11/18 09:15

Lab Sample ID: 480-129994-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/15/18 13:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/15/18 13:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/15/18 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/15/18 13:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/15/18 13:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/15/18 13:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/15/18 13:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/15/18 13:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/15/18 13:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/15/18 13:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/15/18 13:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/15/18 13:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/15/18 13:36	1
2-Butanone (MEK)	420		10	1.3	ug/L			01/15/18 13:36	1
2-Hexanone	1.6	J	5.0	1.2	ug/L			01/15/18 13:36	1
4-Methyl-2-pentanone (MIBK)	4.0	J	5.0	2.1	ug/L			01/15/18 13:36	1
Acetone	210		10	3.0	ug/L			01/15/18 13:36	1
Benzene	3.3		1.0	0.41	ug/L			01/15/18 13:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/15/18 13:36	1
Bromoform	ND		1.0	0.26	ug/L			01/15/18 13:36	1
Bromomethane	ND		1.0	0.69	ug/L			01/15/18 13:36	1
Carbon disulfide	1.3		1.0	0.19	ug/L			01/15/18 13:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/15/18 13:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/15/18 13:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/15/18 13:36	1
Chloroethane	0.80	J	1.0	0.32	ug/L			01/15/18 13:36	1
Chloroform	ND		1.0	0.34	ug/L			01/15/18 13:36	1
Chloromethane	ND		1.0	0.35	ug/L			01/15/18 13:36	1
cis-1,2-Dichloroethene	3.0		1.0	0.81	ug/L			01/15/18 13:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/15/18 13:36	1
Cyclohexane	ND		1.0	0.18	ug/L			01/15/18 13:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/15/18 13:36	1
Ethylbenzene	0.96	J	1.0	0.74	ug/L			01/15/18 13:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/15/18 13:36	1
Isopropylbenzene	2.9		1.0	0.79	ug/L			01/15/18 13:36	1
Methyl acetate	ND		2.5	1.3	ug/L			01/15/18 13:36	1
Methyl tert-butyl ether	0.36	J	1.0	0.16	ug/L			01/15/18 13:36	1
Methylcyclohexane	0.35	J	1.0	0.16	ug/L			01/15/18 13:36	1
Methylene Chloride	3.2		1.0	0.44	ug/L			01/15/18 13:36	1
Styrene	ND		1.0	0.73	ug/L			01/15/18 13:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/15/18 13:36	1
Toluene	1.5		1.0	0.51	ug/L			01/15/18 13:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/15/18 13:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/15/18 13:36	1
Trichloroethene	ND		1.0	0.46	ug/L			01/15/18 13:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/15/18 13:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/15/18 13:36	1
Xylenes, Total	4.6		2.0	0.66	ug/L			01/15/18 13:36	1

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Client Sample ID: ML-7S
Date Collected: 01/09/18 12:20
Date Received: 01/11/18 09:15

Lab Sample ID: 480-129994-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Acetaldehyde	11	T J N	ug/L		1.69	75-07-0		01/15/18 13:36	1
Ethene, ethyloxy-	4.1	T J N	ug/L		2.54	1000221-95-9		01/15/18 13:36	1
Unknown	14	T J	ug/L		3.05			01/15/18 13:36	1
Unknown	710	T J	ug/L		4.74			01/15/18 13:36	1
Cyclohexanol	6.5	T J N	ug/L		9.51	108-93-0		01/15/18 13:36	1
Cyclohexanone	29	T J N	ug/L		9.76	108-94-1		01/15/18 13:36	1
Unknown	8.7	T J	ug/L		11.14			01/15/18 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		01/15/18 13:36	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/15/18 13:36	1
4-Bromofluorobenzene (Surr)	111		73 - 120		01/15/18 13:36	1
Dibromofluoromethane (Surr)	109		75 - 123		01/15/18 13:36	1

Client Sample ID: TRIP BLANK
Date Collected: 01/09/18 00:00
Date Received: 01/11/18 09:15

Lab Sample ID: 480-129994-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/15/18 14:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/15/18 14:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/15/18 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/15/18 14:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/15/18 14:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/15/18 14:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/15/18 14:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/15/18 14:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/15/18 14:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/15/18 14:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/15/18 14:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/15/18 14:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/15/18 14:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/15/18 14:00	1
2-Hexanone	ND		5.0	1.2	ug/L			01/15/18 14:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/15/18 14:00	1
Acetone	ND		10	3.0	ug/L			01/15/18 14:00	1
Benzene	ND		1.0	0.41	ug/L			01/15/18 14:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/15/18 14:00	1
Bromoform	ND		1.0	0.26	ug/L			01/15/18 14:00	1
Bromomethane	ND		1.0	0.69	ug/L			01/15/18 14:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/15/18 14:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/15/18 14:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/15/18 14:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/15/18 14:00	1
Chloroethane	ND		1.0	0.32	ug/L			01/15/18 14:00	1
Chloroform	ND		1.0	0.34	ug/L			01/15/18 14:00	1
Chloromethane	ND		1.0	0.35	ug/L			01/15/18 14:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/15/18 14:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/15/18 14:00	1

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-129994-2

Date Collected: 01/09/18 00:00

Matrix: Water

Date Received: 01/11/18 09:15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			01/15/18 14:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/15/18 14:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/15/18 14:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/15/18 14:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/15/18 14:00	1
Methyl acetate	ND		2.5	1.3	ug/L			01/15/18 14:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/15/18 14:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/15/18 14:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/15/18 14:00	1
Styrene	ND		1.0	0.73	ug/L			01/15/18 14:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/15/18 14:00	1
Toluene	ND		1.0	0.51	ug/L			01/15/18 14:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/15/18 14:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/15/18 14:00	1
Trichloroethene	ND		1.0	0.46	ug/L			01/15/18 14:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/15/18 14:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/15/18 14:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/15/18 14:00	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					01/15/18 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		01/15/18 14:00	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/15/18 14:00	1
4-Bromofluorobenzene (Surr)	108		73 - 120		01/15/18 14:00	1
Dibromofluoromethane (Surr)	106		75 - 123		01/15/18 14:00	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-129994-1	ML-7S	104	101	111	109
480-129994-2	TRIP BLANK	104	101	108	106
LCS 480-395763/5	Lab Control Sample	101	105	106	109
MB 480-395763/7	Method Blank	104	102	108	109

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-395763/7
Matrix: Water
Analysis Batch: 395763

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/15/18 10:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/15/18 10:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/15/18 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/15/18 10:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/15/18 10:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/15/18 10:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/15/18 10:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/15/18 10:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/15/18 10:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/15/18 10:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/15/18 10:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/15/18 10:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/15/18 10:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/15/18 10:52	1
2-Hexanone	ND		5.0	1.2	ug/L			01/15/18 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/15/18 10:52	1
Acetone	ND		10	3.0	ug/L			01/15/18 10:52	1
Benzene	ND		1.0	0.41	ug/L			01/15/18 10:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/15/18 10:52	1
Bromoform	ND		1.0	0.26	ug/L			01/15/18 10:52	1
Bromomethane	ND		1.0	0.69	ug/L			01/15/18 10:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/15/18 10:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/15/18 10:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/15/18 10:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/15/18 10:52	1
Chloroethane	ND		1.0	0.32	ug/L			01/15/18 10:52	1
Chloroform	ND		1.0	0.34	ug/L			01/15/18 10:52	1
Chloromethane	ND		1.0	0.35	ug/L			01/15/18 10:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/15/18 10:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/15/18 10:52	1
Cyclohexane	ND		1.0	0.18	ug/L			01/15/18 10:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/15/18 10:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/15/18 10:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/15/18 10:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/15/18 10:52	1
Methyl acetate	ND		2.5	1.3	ug/L			01/15/18 10:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/15/18 10:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/15/18 10:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/15/18 10:52	1
Styrene	ND		1.0	0.73	ug/L			01/15/18 10:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/15/18 10:52	1
Toluene	ND		1.0	0.51	ug/L			01/15/18 10:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/15/18 10:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/15/18 10:52	1
Trichloroethene	ND		1.0	0.46	ug/L			01/15/18 10:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/15/18 10:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/15/18 10:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/15/18 10:52	1

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>01/15/18 10:52</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>104</i>		<i>80 - 120</i>		<i>01/15/18 10:52</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>102</i>		<i>77 - 120</i>		<i>01/15/18 10:52</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>108</i>		<i>73 - 120</i>		<i>01/15/18 10:52</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>109</i>		<i>75 - 123</i>		<i>01/15/18 10:52</i>	<i>1</i>

Lab Sample ID: LCS 480-395763/5
Matrix: Water
Analysis Batch: 395763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.3		ug/L		93	76 - 120
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	32.0		ug/L		128	61 - 148
1,1-Dichloroethane	25.0	26.7		ug/L		107	77 - 120
1,1-Dichloroethene	25.0	28.0		ug/L		112	66 - 127
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	56 - 134
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	25.0		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	26.5		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120
2-Butanone (MEK)	125	139		ug/L		111	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	71 - 125
Acetone	125	133		ug/L		106	56 - 142
Benzene	25.0	26.4		ug/L		106	71 - 124
Bromodichloromethane	25.0	26.9		ug/L		108	80 - 122
Bromoform	25.0	28.5		ug/L		114	61 - 132
Bromomethane	25.0	25.2		ug/L		101	55 - 144
Carbon disulfide	25.0	26.3		ug/L		105	59 - 134
Carbon tetrachloride	25.0	27.5		ug/L		110	72 - 134
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Chloroethane	25.0	26.5		ug/L		106	69 - 136
Chloroform	25.0	26.2		ug/L		105	73 - 127
Chloromethane	25.0	26.3		ug/L		105	68 - 124
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	74 - 124
Cyclohexane	25.0	28.2		ug/L		113	59 - 135
Dichlorodifluoromethane	25.0	29.8		ug/L		119	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
1,2-Dibromoethane	25.0	25.4		ug/L		102	77 - 120
Isopropylbenzene	25.0	24.1		ug/L		96	77 - 122
Methyl acetate	50.0	52.3		ug/L		105	74 - 133
Methyl tert-butyl ether	25.0	25.3		ug/L		101	77 - 120
Methylcyclohexane	25.0	28.8		ug/L		115	68 - 134
Methylene Chloride	25.0	24.1		ug/L		96	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-395763/5
Matrix: Water
Analysis Batch: 395763

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	25.7		ug/L		103	80 - 120
Tetrachloroethene	25.0	27.1		ug/L		108	74 - 122
Toluene	25.0	24.4		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	25.5		ug/L		102	80 - 120
Trichloroethene	25.0	25.6		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	28.5		ug/L		114	62 - 150
Vinyl chloride	25.0	27.6		ug/L		110	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

GC/MS VOA

Analysis Batch: 395763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129994-1	ML-7S	Total/NA	Water	8260C	
480-129994-2	TRIP BLANK	Total/NA	Water	8260C	
MB 480-395763/7	Method Blank	Total/NA	Water	8260C	
LCS 480-395763/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Client Sample ID: ML-7S

Date Collected: 01/09/18 12:20

Date Received: 01/11/18 09:15

Lab Sample ID: 480-129994-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	395763	01/15/18 13:36	LCH	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 01/09/18 00:00

Date Received: 01/11/18 09:15

Lab Sample ID: 480-129994-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	395763	01/15/18 14:00	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-129994-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-7S	480-129994-1	109	101	104	111
TRIP BLANK	480-129994-2	106	101	104	108
	MB 480-395763/7	109	102	104	108
	LCS 480-395763/5	109	105	101	106

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S6549.D

Lab ID: LCS 480-395763/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.0	104	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.3	93	76-120	
1,1,2-Trichloroethane	25.0	24.9	99	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	32.0	128	61-148	
1,1-Dichloroethane	25.0	26.7	107	77-120	
1,1-Dichloroethene	25.0	28.0	112	66-127	
1,2,4-Trichlorobenzene	25.0	25.0	100	79-122	
1,2-Dibromo-3-Chloropropane	25.0	22.5	90	56-134	
1,2-Dichlorobenzene	25.0	25.1	101	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	26.5	106	76-120	
1,3-Dichlorobenzene	25.0	24.9	100	77-120	
1,4-Dichlorobenzene	25.0	24.7	99	80-120	
2-Butanone (MEK)	125	139	111	57-140	
2-Hexanone	125	120	96	65-127	
4-Methyl-2-pentanone (MIBK)	125	122	97	71-125	
Acetone	125	133	106	56-142	
Benzene	25.0	26.4	106	71-124	
Bromodichloromethane	25.0	26.9	108	80-122	
Bromoform	25.0	28.5	114	61-132	
Bromomethane	25.0	25.2	101	55-144	
Carbon disulfide	25.0	26.3	105	59-134	
Carbon tetrachloride	25.0	27.5	110	72-134	
Chlorobenzene	25.0	25.5	102	80-120	
Dibromochloromethane	25.0	26.2	105	75-125	
Chloroethane	25.0	26.5	106	69-136	
Chloroform	25.0	26.2	105	73-127	
Chloromethane	25.0	26.3	105	68-124	
cis-1,2-Dichloroethene	25.0	26.4	106	74-124	
cis-1,3-Dichloropropene	25.0	27.3	109	74-124	
Cyclohexane	25.0	28.2	113	59-135	
Dichlorodifluoromethane	25.0	29.8	119	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
1,2-Dibromoethane	25.0	25.4	102	77-120	
Isopropylbenzene	25.0	24.1	96	77-122	
Methyl acetate	50.0	52.3	105	74-133	
Methyl tert-butyl ether	25.0	25.3	101	77-120	
Methylcyclohexane	25.0	28.8	115	68-134	
Methylene Chloride	25.0	24.1	96	75-124	
Styrene	25.0	25.7	103	80-120	
Tetrachloroethene	25.0	27.1	108	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S6549.D

Lab ID: LCS 480-395763/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.4	98	80-122	
trans-1,2-Dichloroethene	25.0	26.8	107	73-127	
trans-1,3-Dichloropropene	25.0	25.5	102	80-120	
Trichloroethene	25.0	25.6	102	74-123	
Trichlorofluoromethane	25.0	28.5	114	62-150	
Vinyl chloride	25.0	27.6	110	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab File ID: S6551.D Lab Sample ID: MB 480-395763/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 01/15/2018 10:52
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-395763/5	S6549.D	01/15/2018 10:06
ML-7S	480-129994-1	S6557.D	01/15/2018 13:36
TRIP BLANK	480-129994-2	S6558.D	01/15/2018 14:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab File ID: S6361.D BFB Injection Date: 01/09/2018
 Instrument ID: HP5973S BFB Injection Time: 23:52
 Analysis Batch No.: 395114

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.2
75	30.0 - 60.0 % of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	84.1
175	5.0 - 9.0 % of mass 174	6.7 (8.0) 1
176	95.0 - 101.0 % of mass 174	84.2 (100.1) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-395114/4	S6363.D	01/10/2018	00:42
	IC 480-395114/5	S6364.D	01/10/2018	01:05
	IC 480-395114/6	S6365.D	01/10/2018	01:28
	IC 480-395114/7	S6366.D	01/10/2018	01:51
	IC 480-395114/8	S6367.D	01/10/2018	02:15
	ICIS 480-395114/9	S6368.D	01/10/2018	02:38
	IC 480-395114/10	S6369.D	01/10/2018	03:01
	IC 480-395114/11	S6370.D	01/10/2018	03:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab File ID: S6546.D BFB Injection Date: 01/15/2018
 Instrument ID: HP5973S BFB Injection Time: 08:38
 Analysis Batch No.: 395763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.6
75	30.0 - 60.0 % of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.4 (0.4) 1
174	50.0 - 120.00 % of mass 95	95.8
175	5.0 - 9.0 % of mass 174	7.2 (7.5) 1
176	95.0 - 101.0 % of mass 174	93.6 (97.7) 1
177	5.0 - 9.0 % of mass 176	6.3 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-395763/3	S6547.D	01/15/2018	09:19
	LCS 480-395763/5	S6549.D	01/15/2018	10:06
	MB 480-395763/7	S6551.D	01/15/2018	10:52
ML-7S	480-129994-1	S6557.D	01/15/2018	13:36
TRIP BLANK	480-129994-2	S6558.D	01/15/2018	14:00

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Sample No.: ICIS 480-395114/9 Date Analyzed: 01/10/2018 02:38
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S6368.D Heated Purge: (Y/N) N
 Calibration ID: 32523

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	166664	5.55	342336	8.55	365955	10.92
UPPER LIMIT	333328	6.05	684672	9.05	731910	11.42
LOWER LIMIT	83332	5.05	171168	8.05	182978	10.42
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-395763/3	146224	5.55	311253	8.55	362560	10.92

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Sample No.: CCVIS 480-395763/3 Date Analyzed: 01/15/2018 09:19
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S6547.D Heated Purge: (Y/N) N
 Calibration ID: 32526

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	146224	5.55	311253	8.55	362560	10.92	
UPPER LIMIT	292448	6.05	622506	9.05	725120	11.42	
LOWER LIMIT	73112	5.05	155627	8.05	181280	10.42	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-395763/5	136372	5.55	305589	8.55	351999	10.92	
MB 480-395763/7	131408	5.55	282366	8.55	321091	10.92	
480-129994-1	ML-7S	136308	5.55	293265	8.55	331507	10.92
480-129994-2	TRIP BLANK	131485	5.55	280000	8.55	316190	10.92

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-129994-1
 Matrix: Water Lab File ID: S6557.D
 Analysis Method: 8260C Date Collected: 01/09/2018 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 13:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	420		10	1.3
591-78-6	2-Hexanone	1.6	J	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	4.0	J	5.0	2.1
67-64-1	Acetone	210		10	3.0
71-43-2	Benzene	3.3		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	1.3		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	0.80	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	3.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	0.96	J	1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	2.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-129994-1
 Matrix: Water Lab File ID: S6557.D
 Analysis Method: 8260C Date Collected: 01/09/2018 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 13:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.36	J	1.0	0.16
108-87-2	Methylcyclohexane	0.35	J	1.0	0.16
75-09-2	Methylene Chloride	3.2		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	1.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	4.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-129994-1
 Matrix: Water Lab File ID: S6557.D
 Analysis Method: 8260C Date Collected: 01/09/2018 12:20
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 13:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L
 Number TICs Found: 7 TIC Result Total: 783.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-07-0	Acetaldehyde	1.69	11	T J N	86%
1000221-95-9	Ethene, ethyloxy-	2.54	4.1	T J N	90%
	Unknown	3.05	14	T J	
	Unknown	4.74	710	T J	
108-93-0	Cyclohexanol	9.51	6.5	T J N	86%
108-94-1	Cyclohexanone	9.76	29	T J N	94%
	Unknown	11.14	8.7	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D
 Lims ID: 480-129994-A-1
 Client ID: ML-7S
 Sample Type: Client
 Inject. Date: 15-Jan-2018 13:36:30 ALS Bottle#: 6 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-129994-A-1
 Misc. Info.: 480-0068570-013
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Jan-2018 08:50:22 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: moffata

Date: 16-Jan-2018 08:51:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	136308	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.546	-0.001	78	293265	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	93	331507	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	58	188941	27.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	105968	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	758799	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.792	9.792	-0.001	97	283460	27.8	
10 Dichlorodifluoromethane	85		1.294				ND	
12 Chloromethane	50		1.482				ND	
13 Vinyl chloride	62	1.574	1.568	0.006	16	4138	0.5234	
14 Bromomethane	94		1.884				ND	
15 Chloroethane	64	1.987	1.981	0.006	49	6680	0.8044	
17 Trichlorofluoromethane	101		2.218				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.730				ND	
22 1,1-Dichloroethene	96		2.748				ND	
23 Acetone	43	2.869	2.869	0.000	100	545076	207.7	
26 Carbon disulfide	76	2.955	2.949	0.007	89	24634	1.27	
27 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84	3.271	3.265	0.006	75	23726	3.17	
32 Methyl tert-butyl ether	73	3.496	3.490	0.006	1	8033	0.3633	
34 trans-1,2-Dichloroethene	96		3.502				ND	
39 1,1-Dichloroethane	63		3.928				ND	
45 cis-1,2-Dichloroethene	96	4.488	4.482	0.006	34	23768	2.99	
43 2-Butanone (MEK)	43	4.518	4.518	0.000	97	1381489	420.5	
50 Chloroform	83		4.798				ND	
51 1,1,1-Trichloroethane	97		4.914				ND	
52 Cyclohexane	56		4.926				ND	
55 Carbon tetrachloride	117		5.060				ND	
57 Benzene	78	5.278	5.272	0.006	84	93692	3.32	
58 1,2-Dichloroethane	62		5.333				ND	
62 Trichloroethene	95		5.887				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	6.015	6.015	0.000	8	4183	0.3499	
65 1,2-Dichloropropane	63		6.124				ND	
68 Dichlorobromomethane	83		6.410				ND	
72 cis-1,3-Dichloropropene	75		6.830				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.988	6.976	0.012	82	27333	3.95	
74 Toluene	92	7.128	7.128	0.000	78	28406	1.46	
77 trans-1,3-Dichloropropene	75		7.396				ND	
79 1,1,2-Trichloroethane	83		7.590				ND	
81 Tetrachloroethene	166		7.663				ND	
80 2-Hexanone	43	7.834	7.815	0.019	31	8377	1.59	
83 Chlorodibromomethane	129		7.986				ND	
84 Ethylene Dibromide	107		8.095				ND	
87 Chlorobenzene	112		8.576				ND	
88 Ethylbenzene	91	8.667	8.667	0.000	2	34338	0.9617	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	53125	3.59	
91 o-Xylene	106	9.221	9.220	0.000	70	13884	1.00	
92 Styrene	104		9.245				ND	
95 Bromoform	173		9.488				ND	
94 Isopropylbenzene	105	9.598	9.598	0.000	91	110999	2.90	
97 1,1,2,2-Tetrachloroethane	83		9.987				ND	
111 1,3-Dichlorobenzene	146		10.857				ND	
113 1,4-Dichlorobenzene	146		10.942				ND	
116 1,2-Dichlorobenzene	146		11.289				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.013				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 124 Xylenes, Total	1				0		4.60	

Reagents:

S_8260_IS_00275	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D
 Lims ID: 480-129994-A-1
 Client ID: ML-7S
 Sample Type: Client
 Inject. Date: 15-Jan-2018 13:36:30 ALS Bottle#: 6 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-129994-A-1
 Misc. Info.: 480-0068570-013
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Jan-2018 08:50:22 Calib Date: 10-Jan-2018 07:40:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025
 First Level Reviewer: moffata Date: 16-Jan-2018 08:51:14

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
75-07-0								
1.689	646063	10.5	153	86	108064	C2H4O	44	
1000221-95-9								
2.535	250483	4.07	153	90	1097	C4H10O	74	
3.052	836067	13.6	153					
4.737	43939236	714.4	153					
108-93-0								
9.513	545198	6.46	2	86	17235	C6H12O	100	
108-94-1								
9.762	2111125	29.4	3	94	111410	C6H10O	98	
11.137	621853	8.67	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.546	1537690	25.0
* 2 Chlorobenzene-d5	8.545	2110885	25.0
* 3 1,4-Dichlorobenzene-d4	10.918	1792646	25.0

[QC Flag Legend](#)

Processing Flags

[Reagents:](#)

S_8260_IS_00275	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Worklist Smp#: 13

Client ID: ML-7S

Purge Vol: 5.000 mL

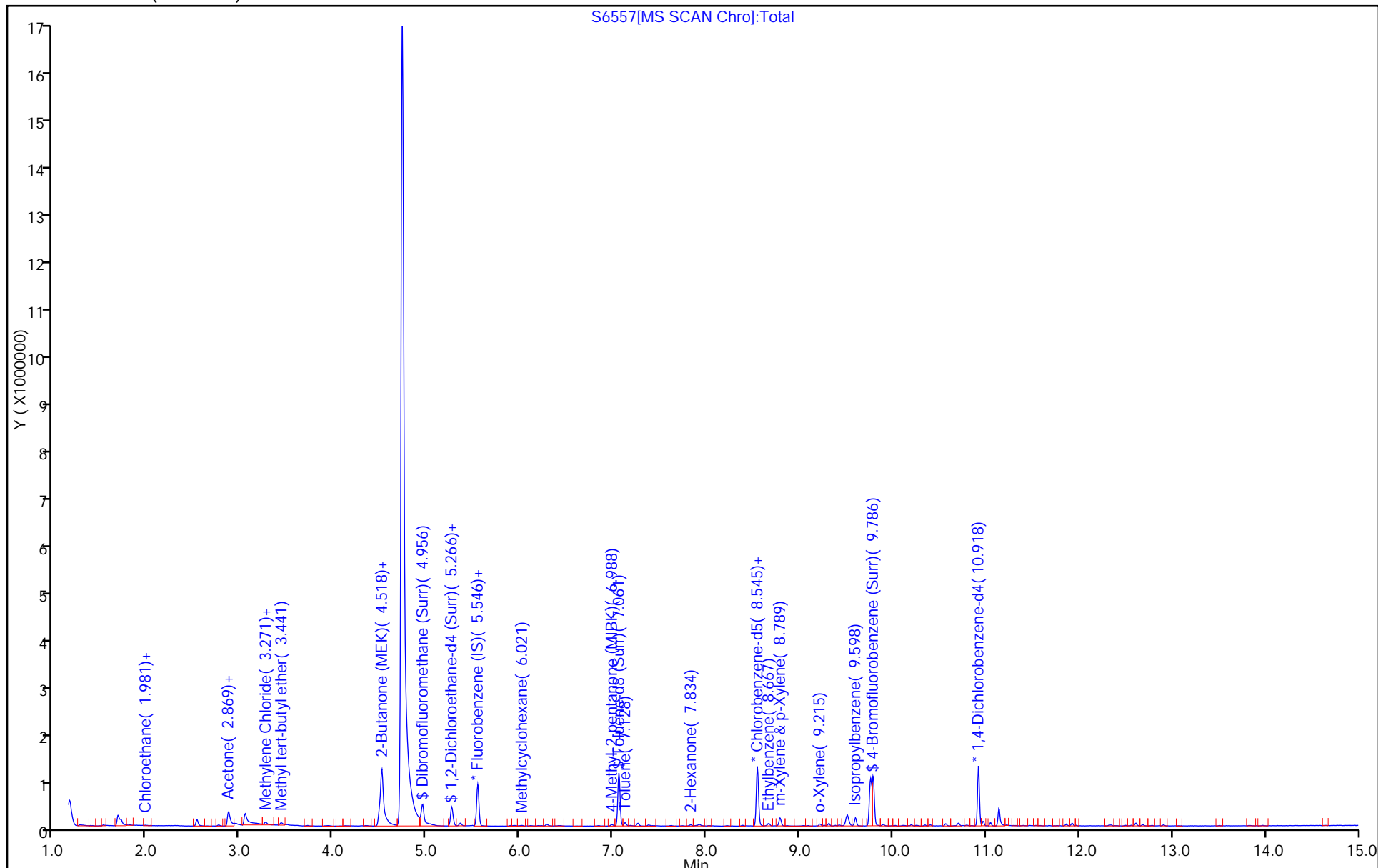
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

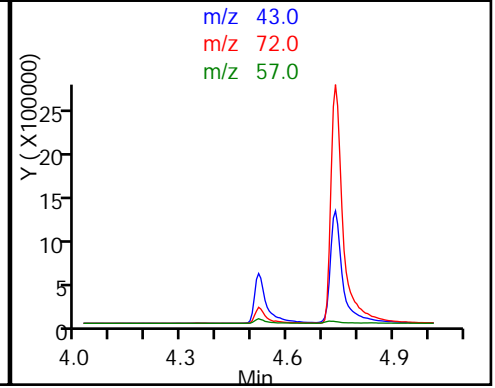
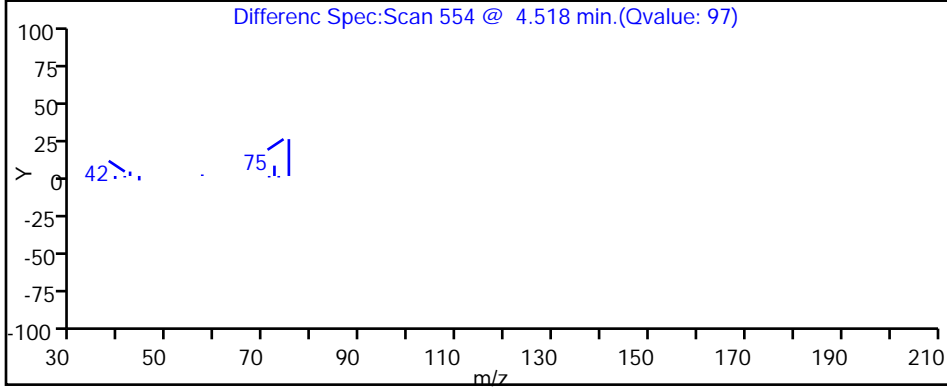
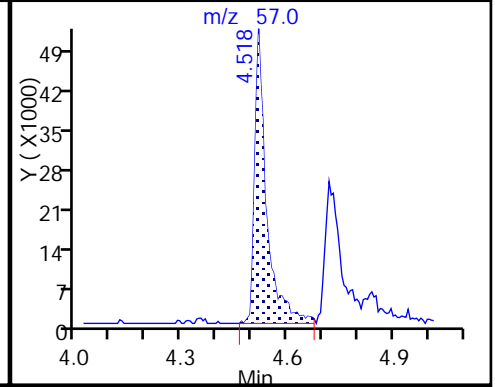
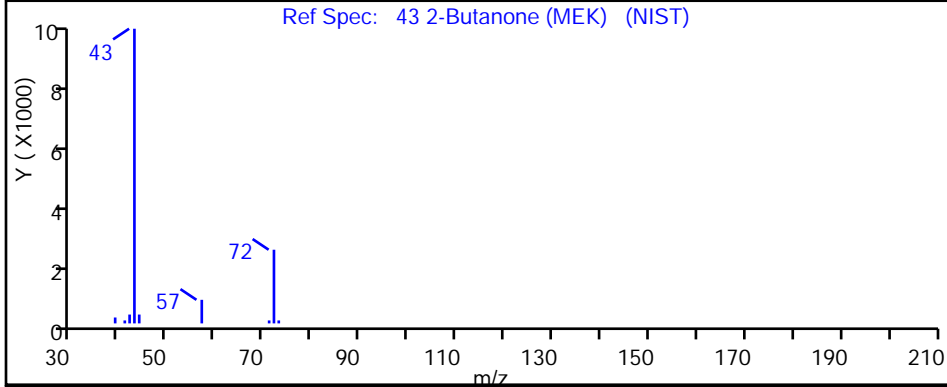
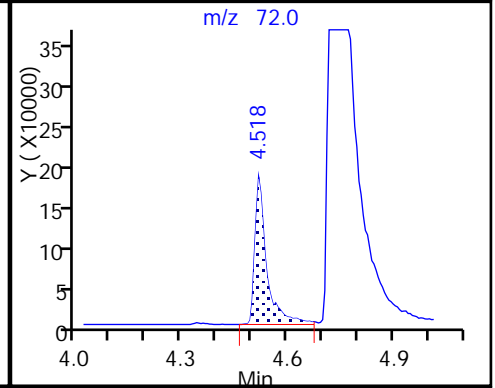
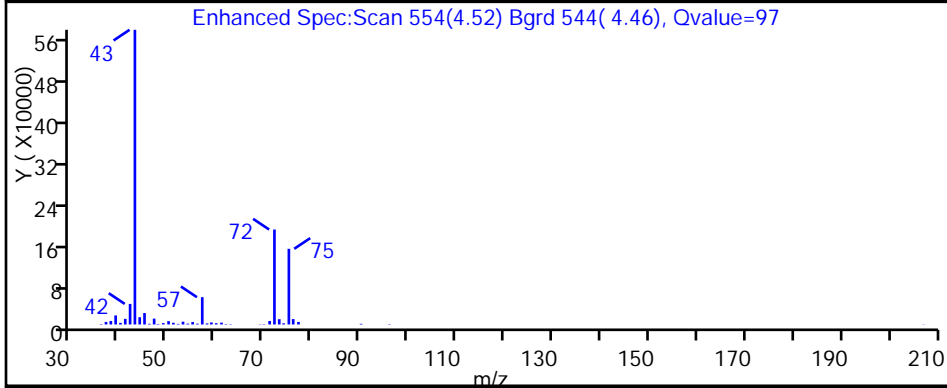
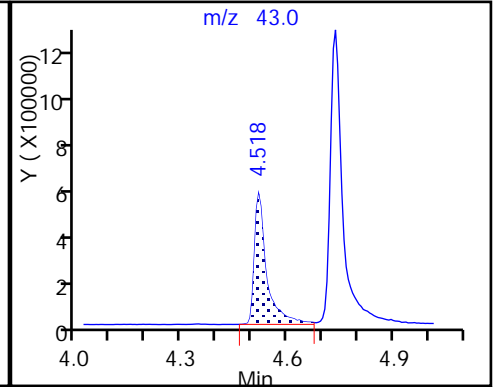
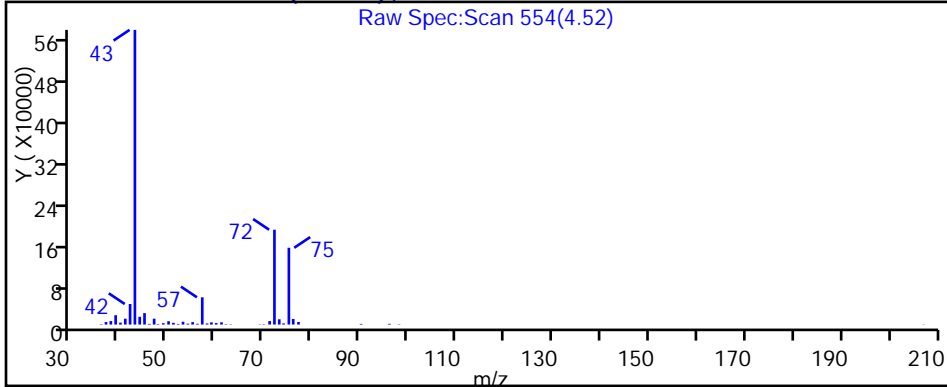
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

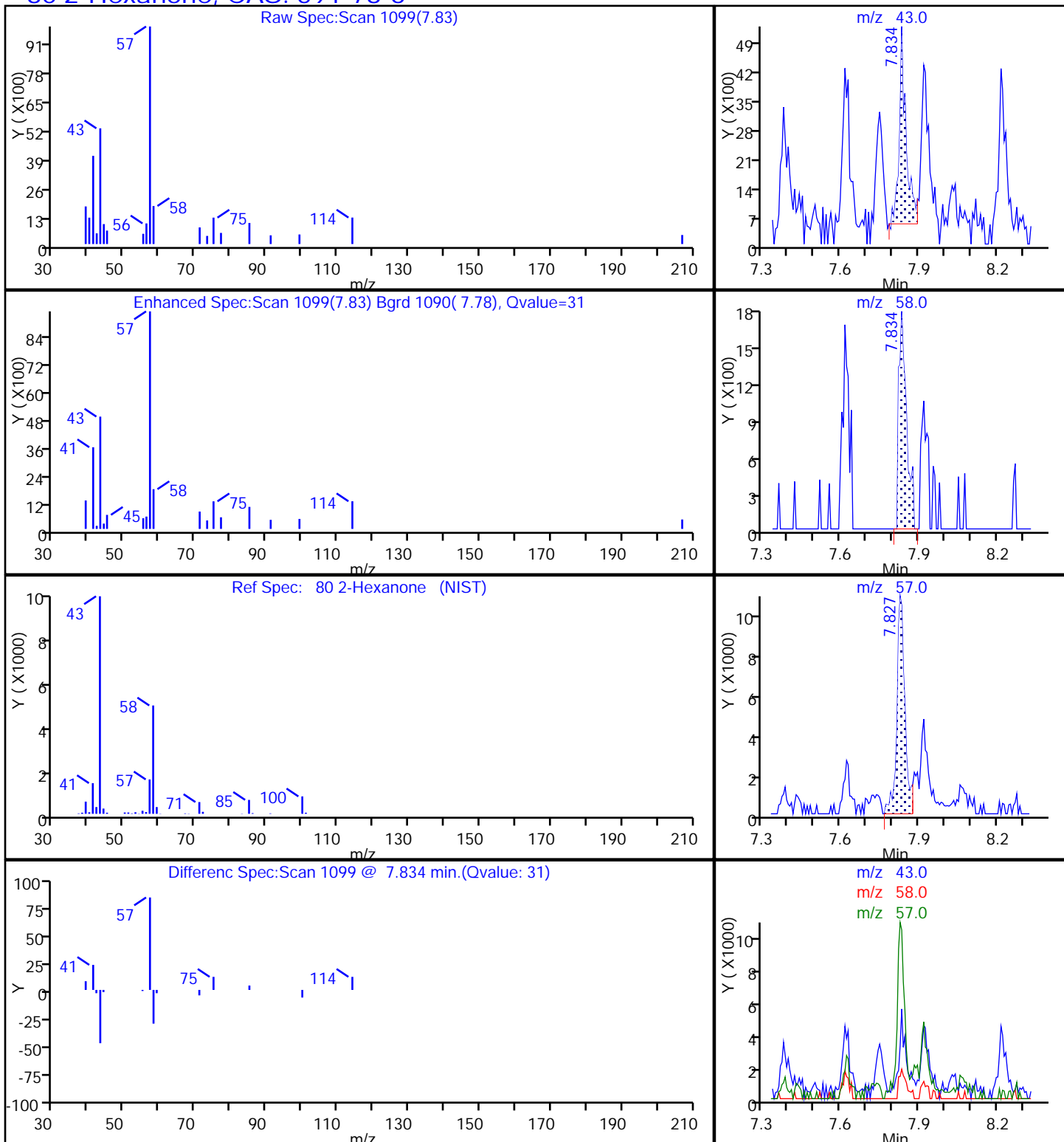
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

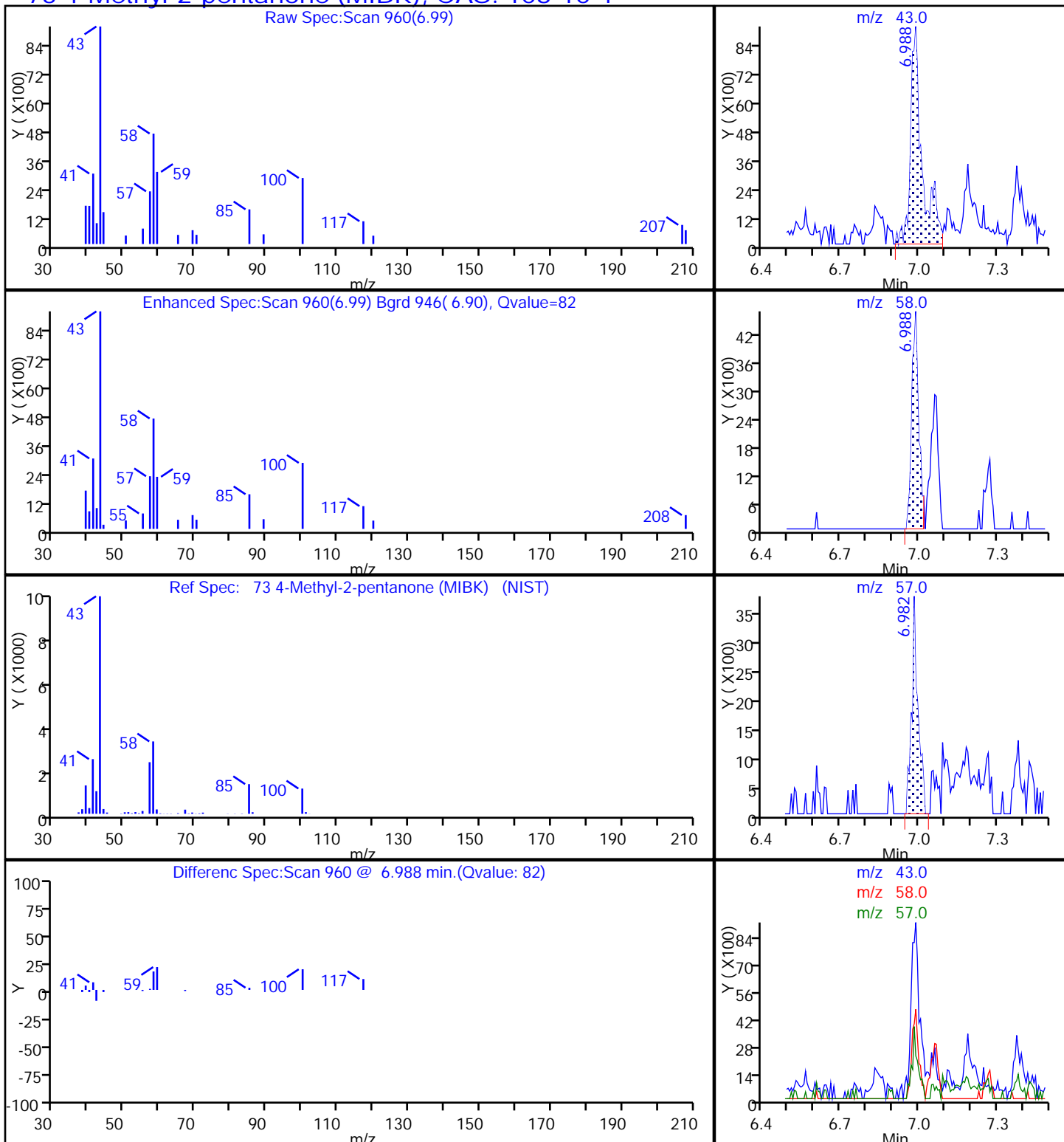
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

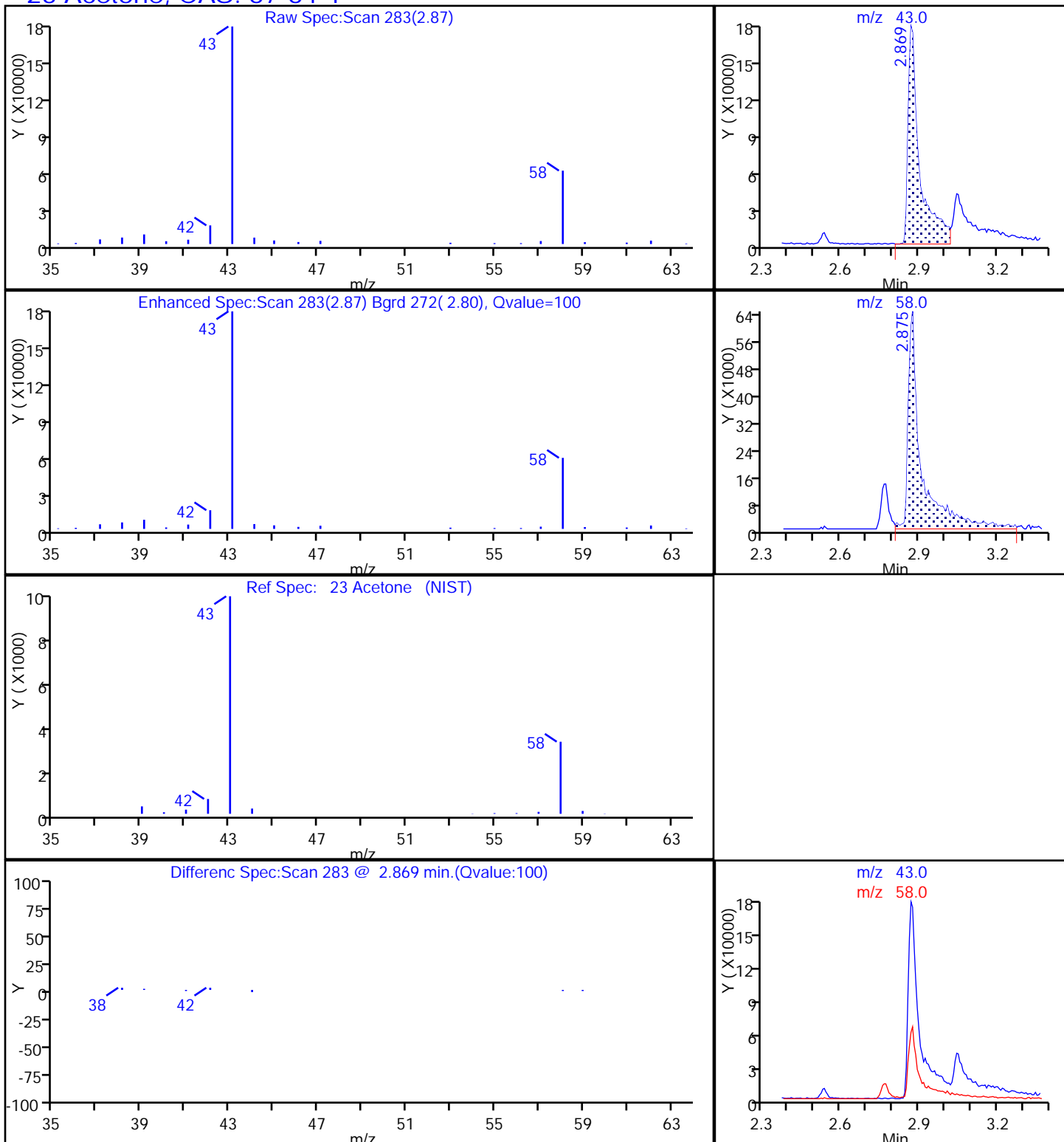
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

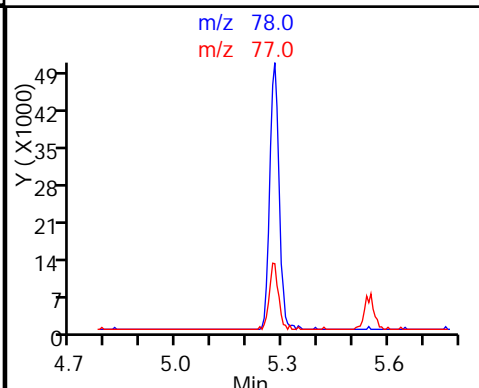
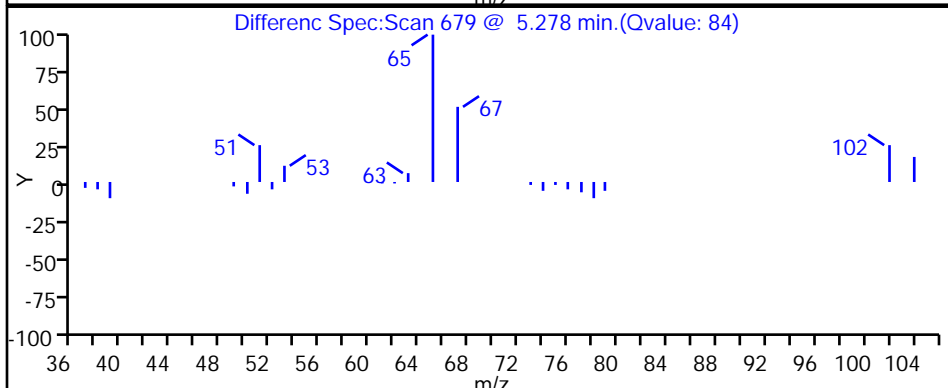
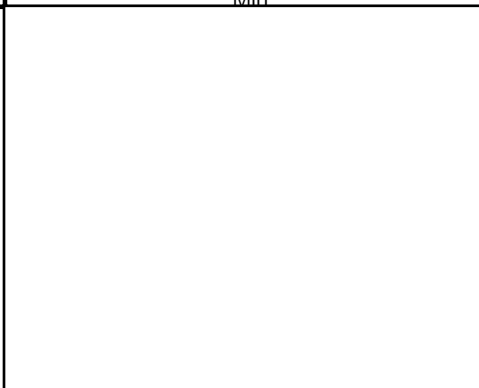
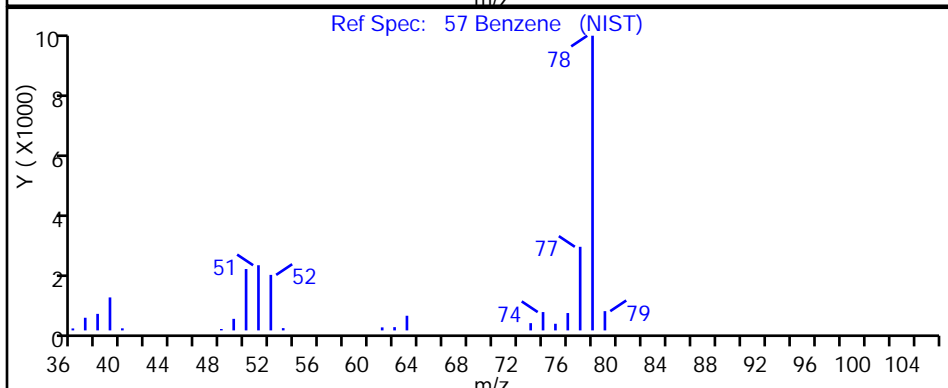
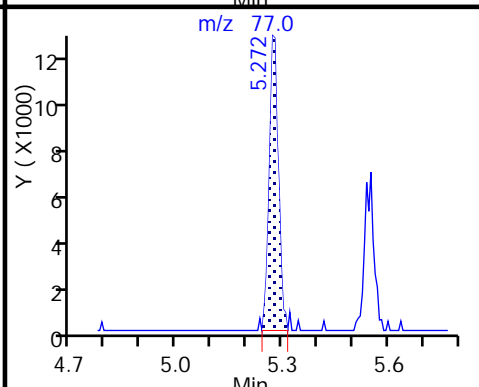
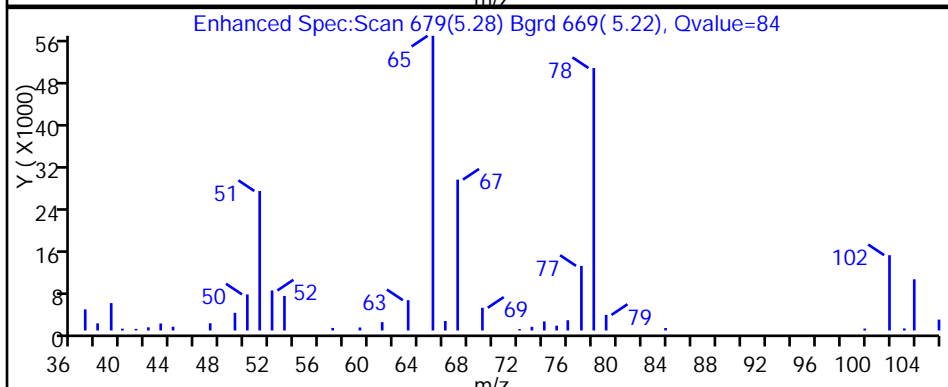
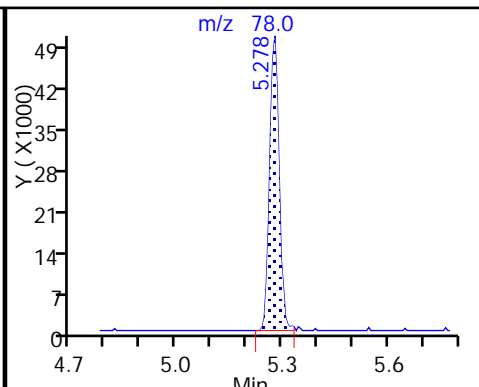
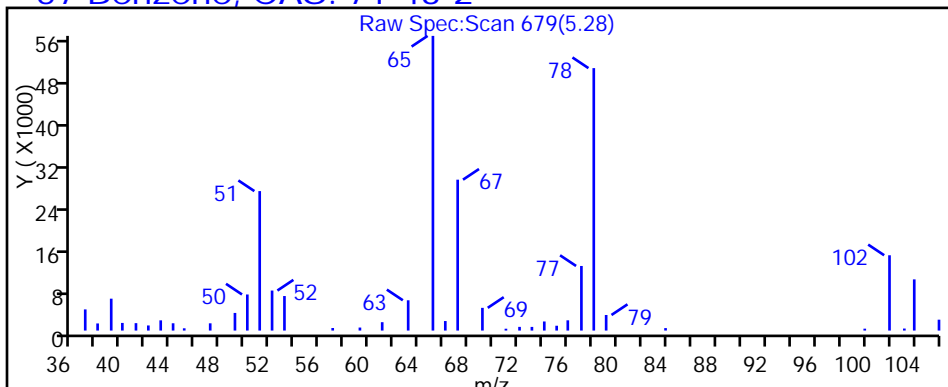
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

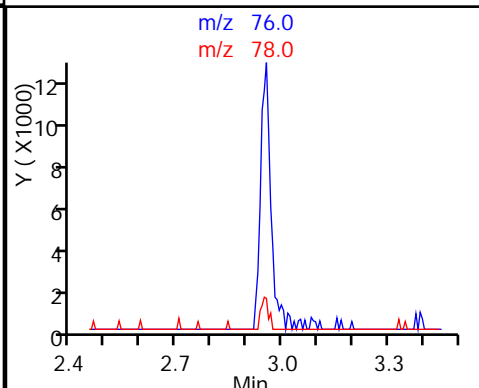
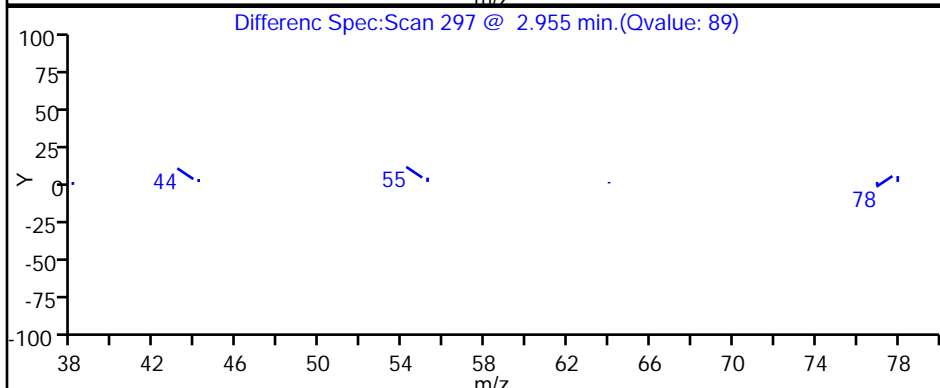
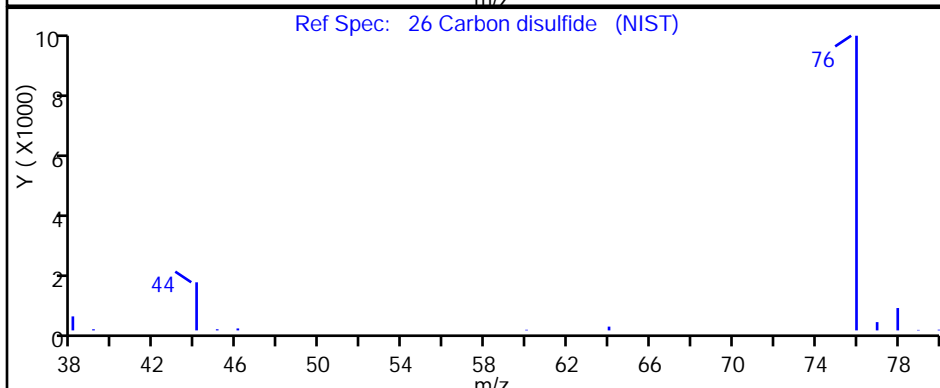
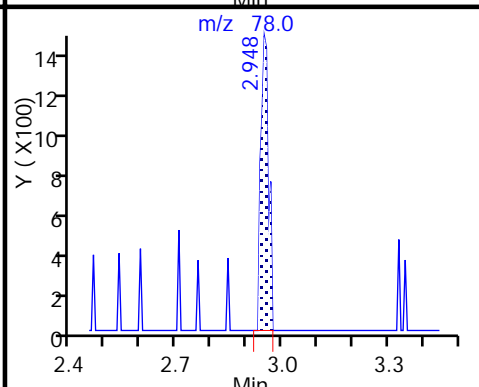
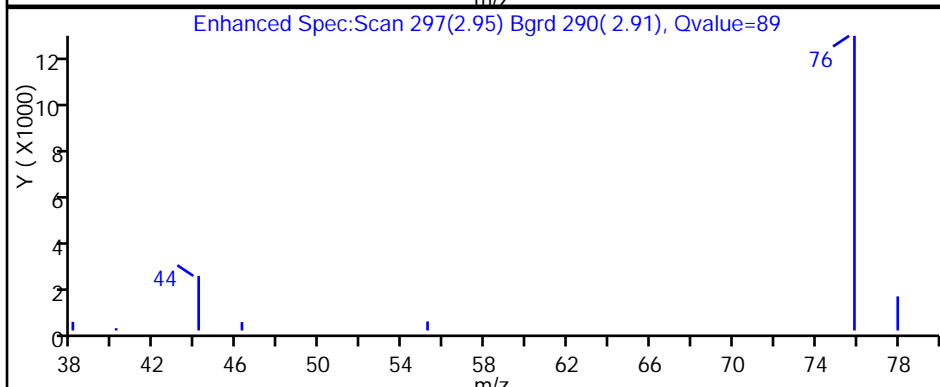
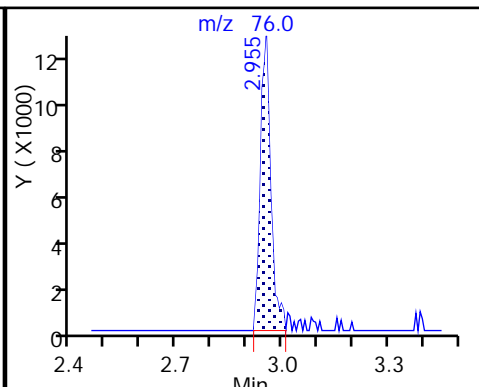
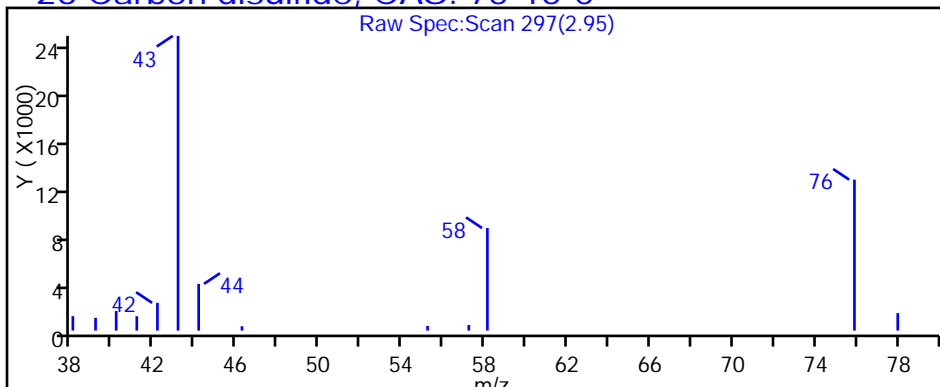
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

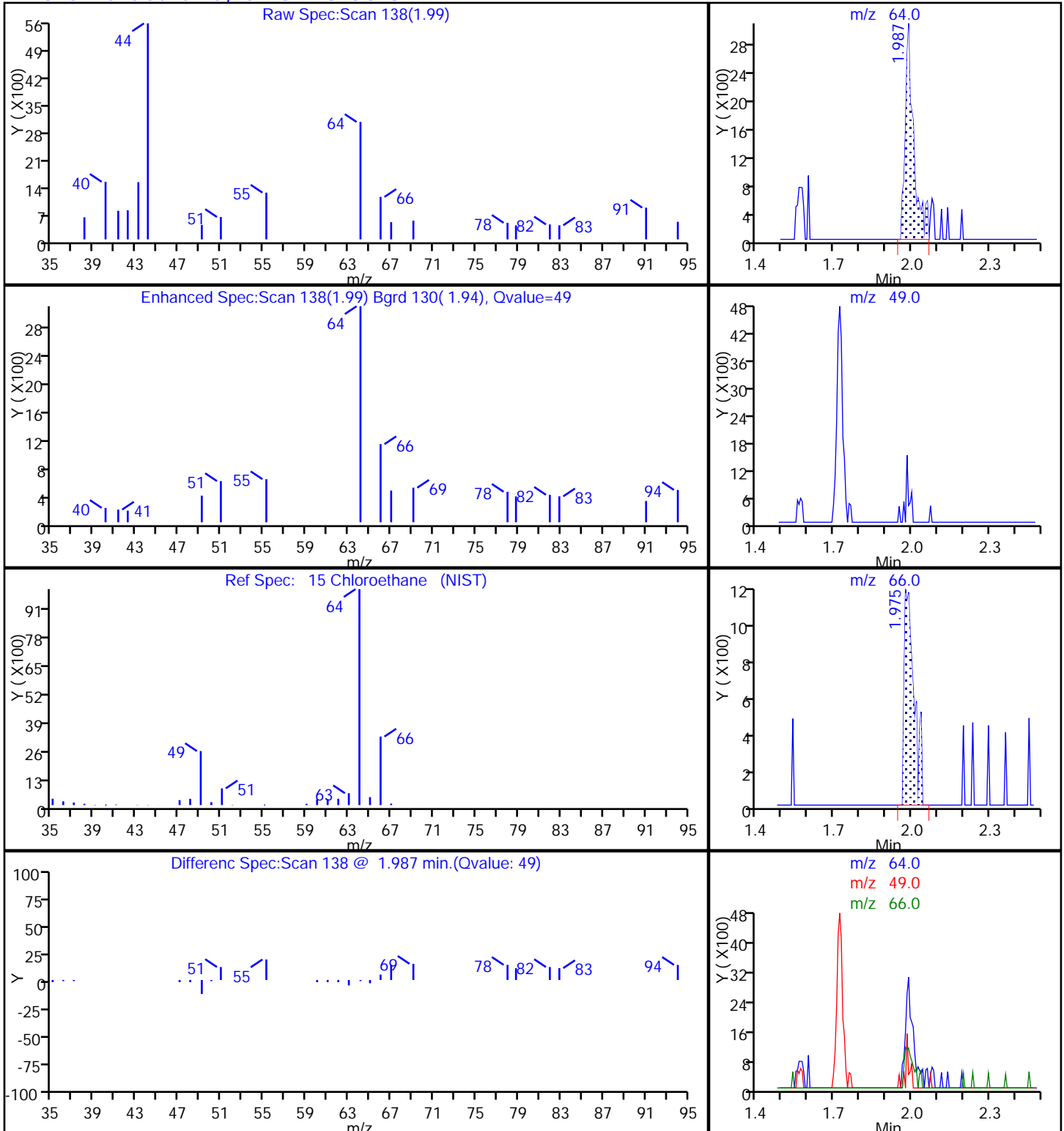
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

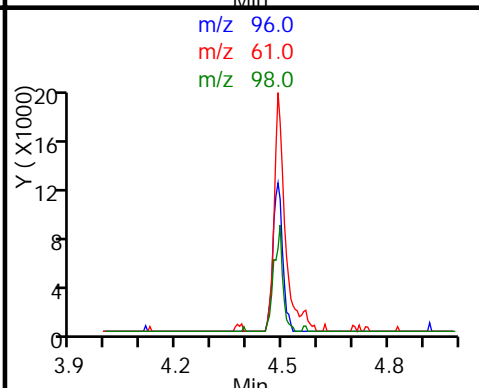
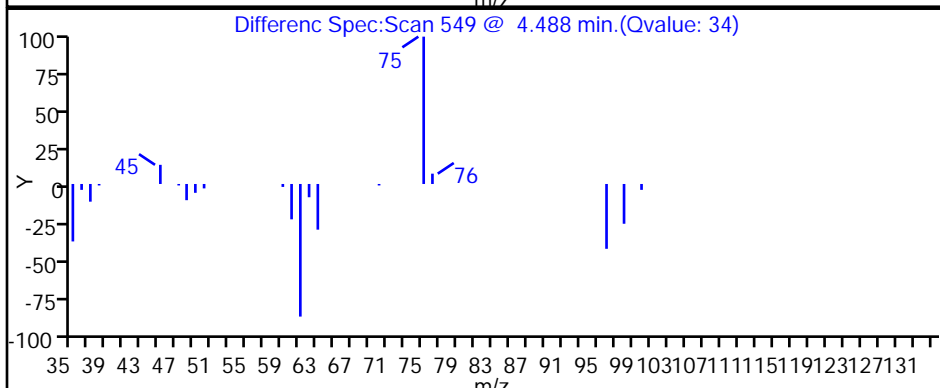
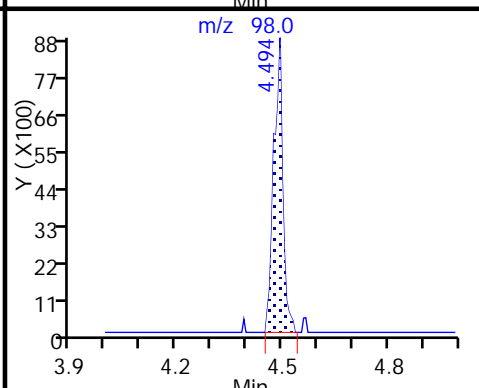
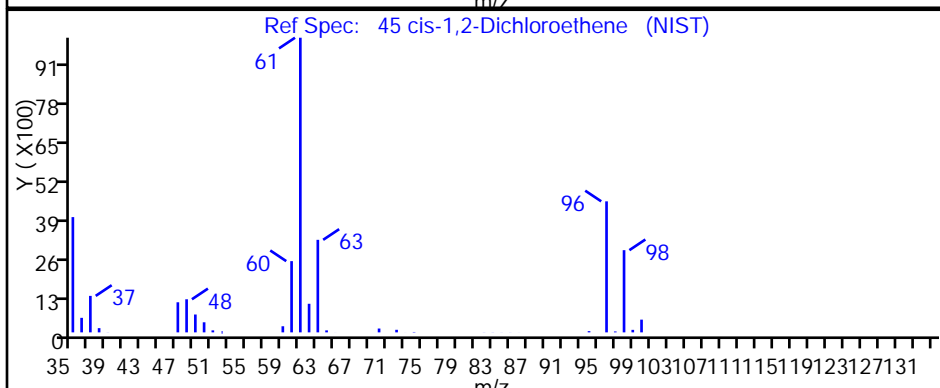
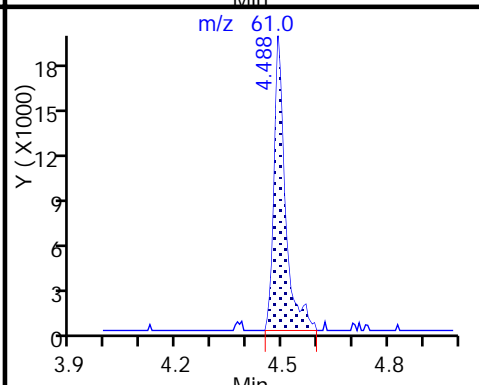
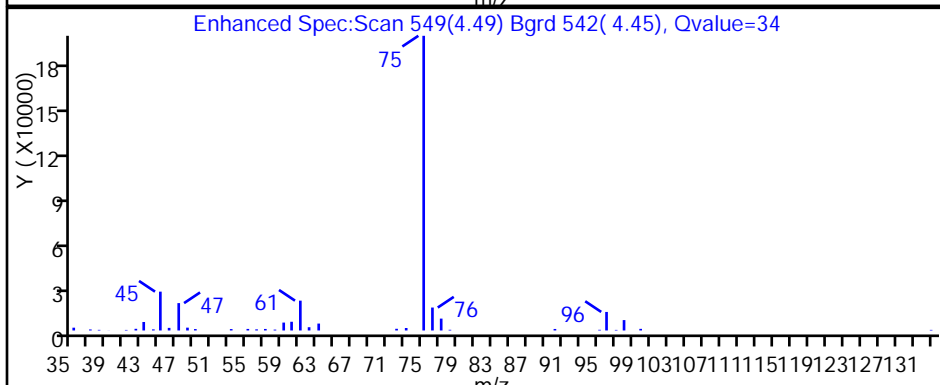
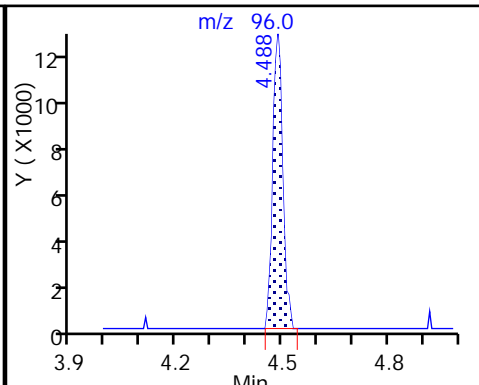
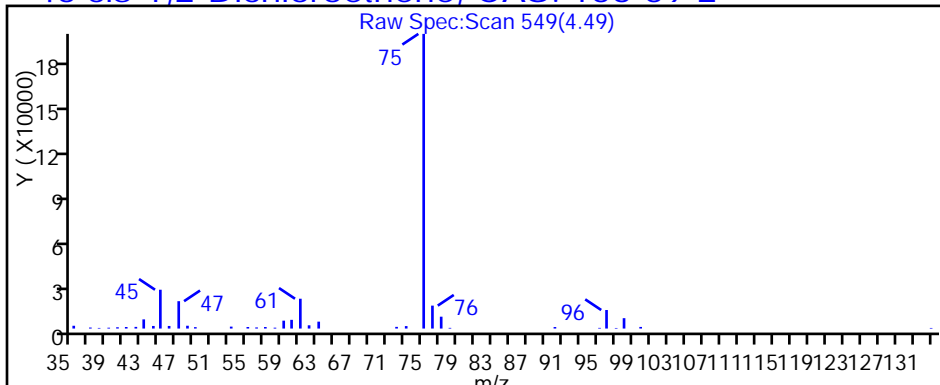
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

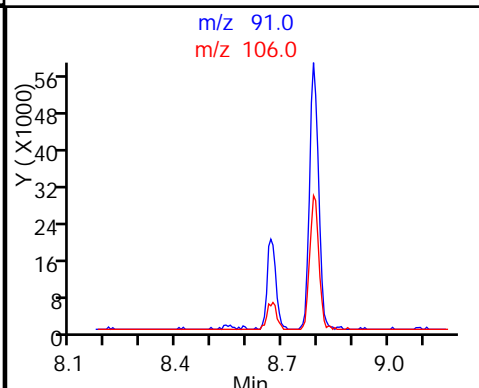
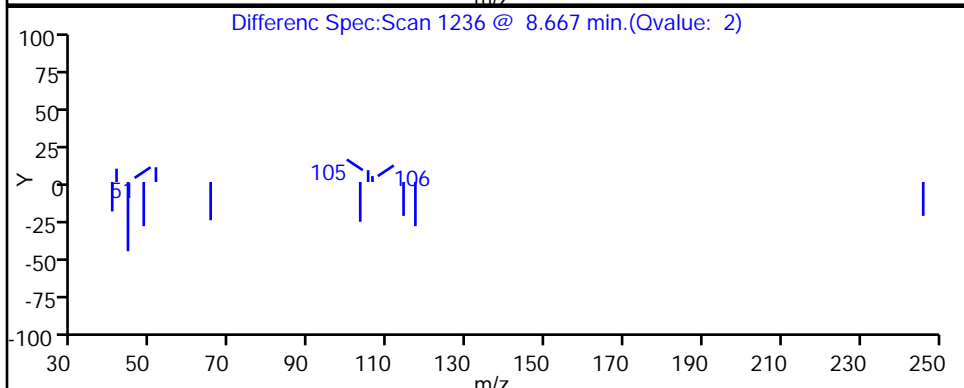
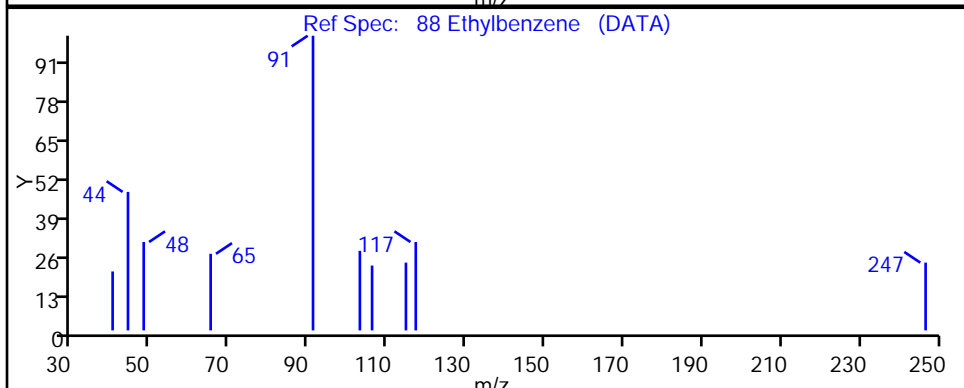
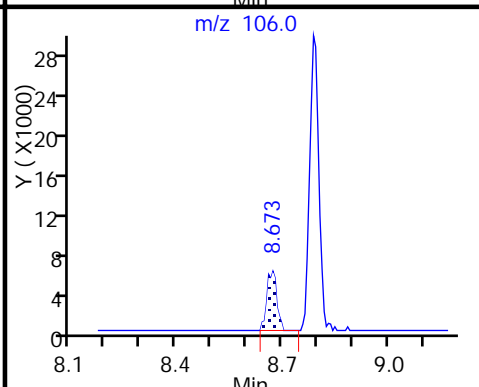
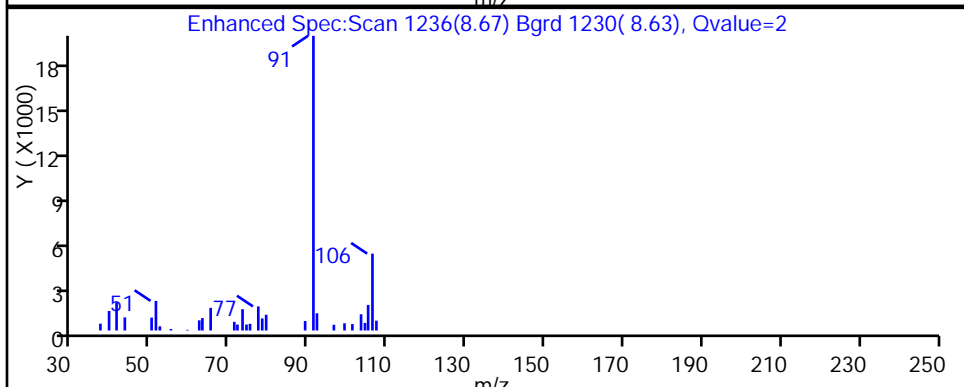
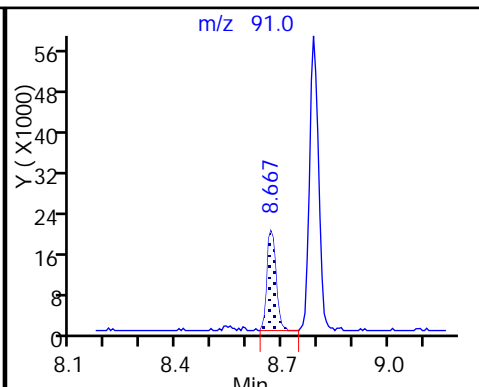
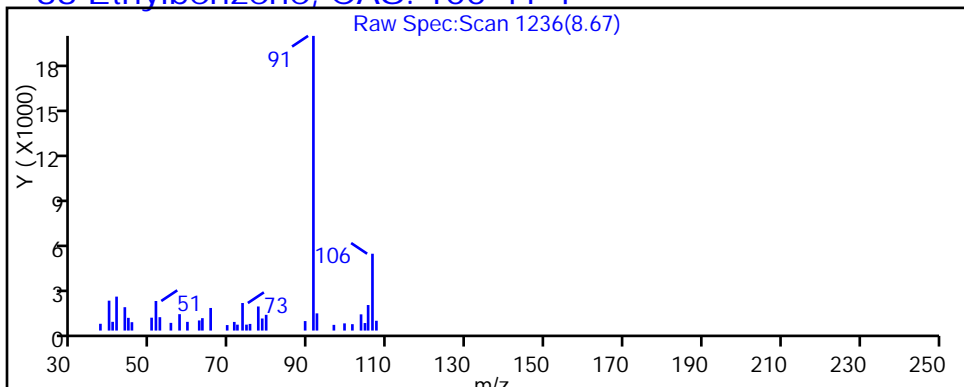
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

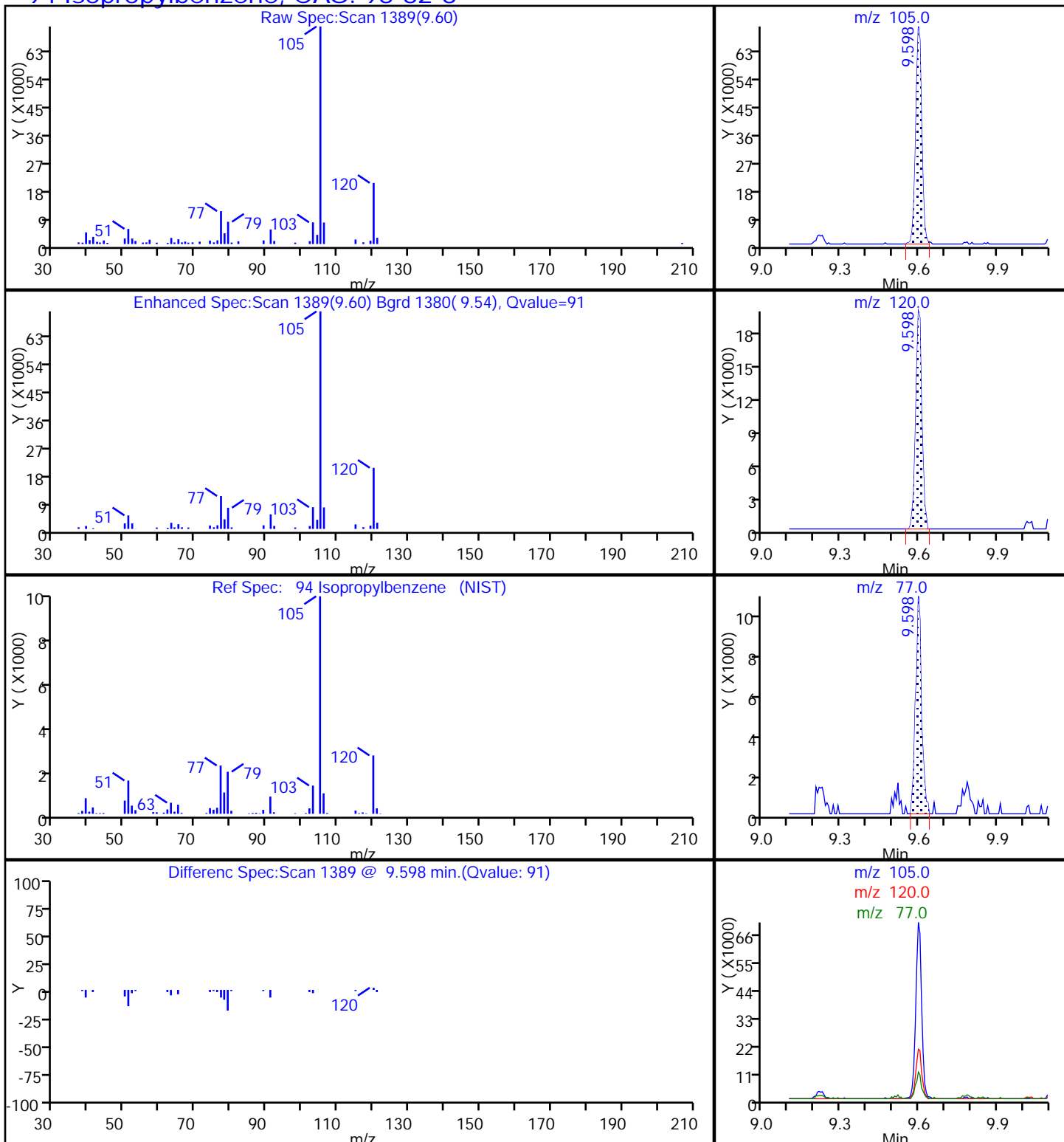
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

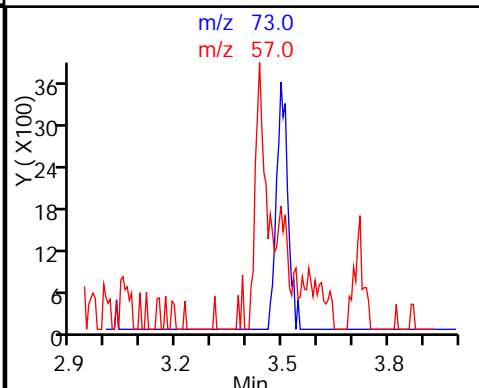
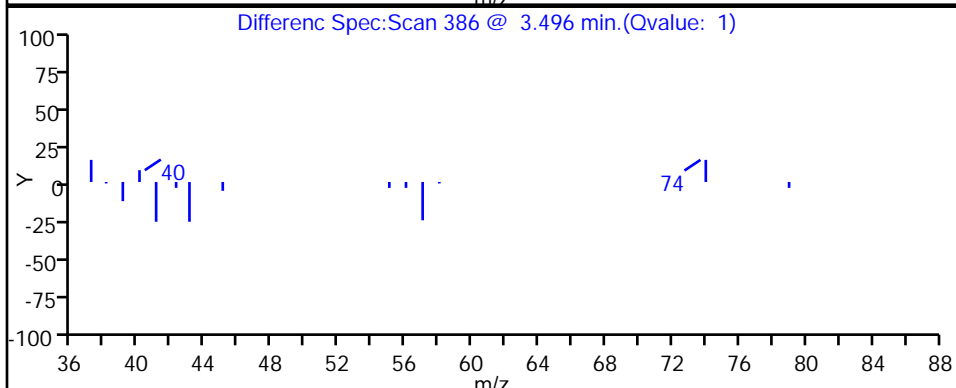
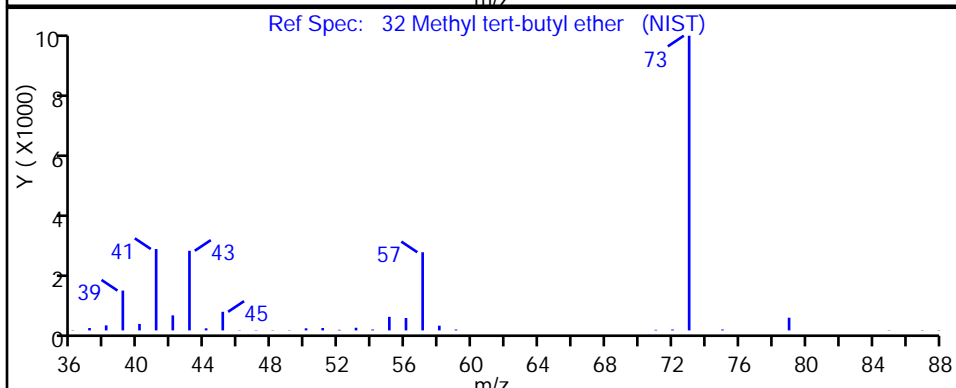
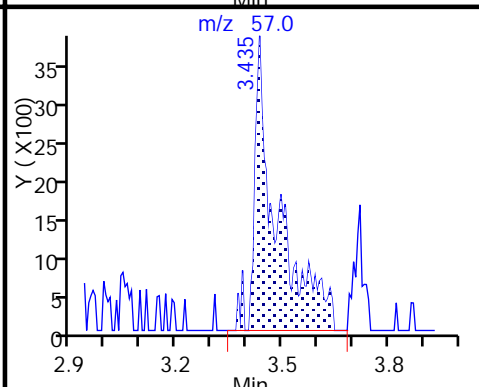
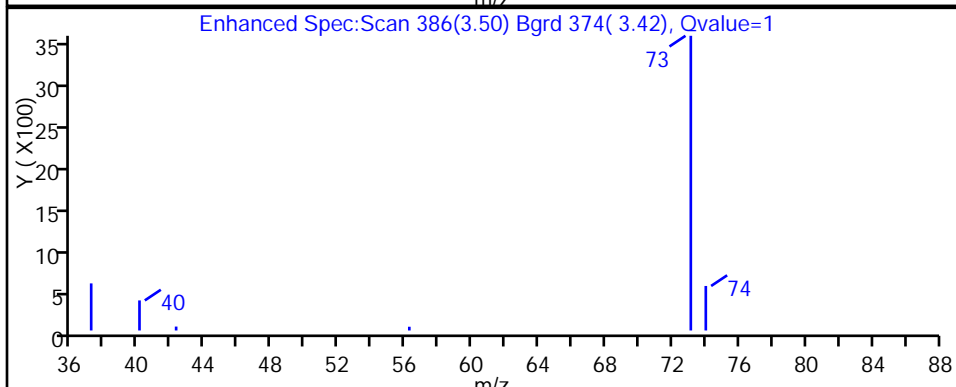
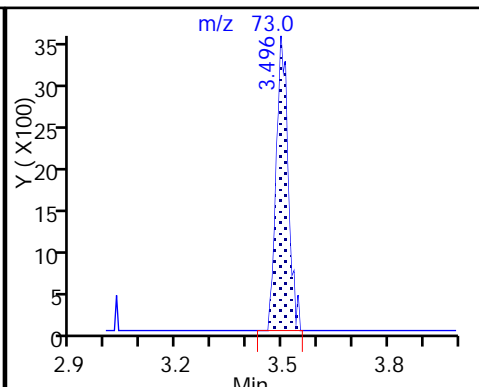
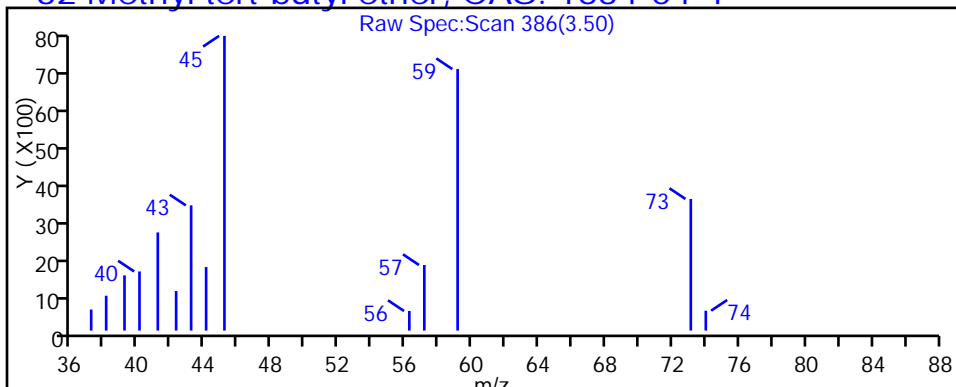
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

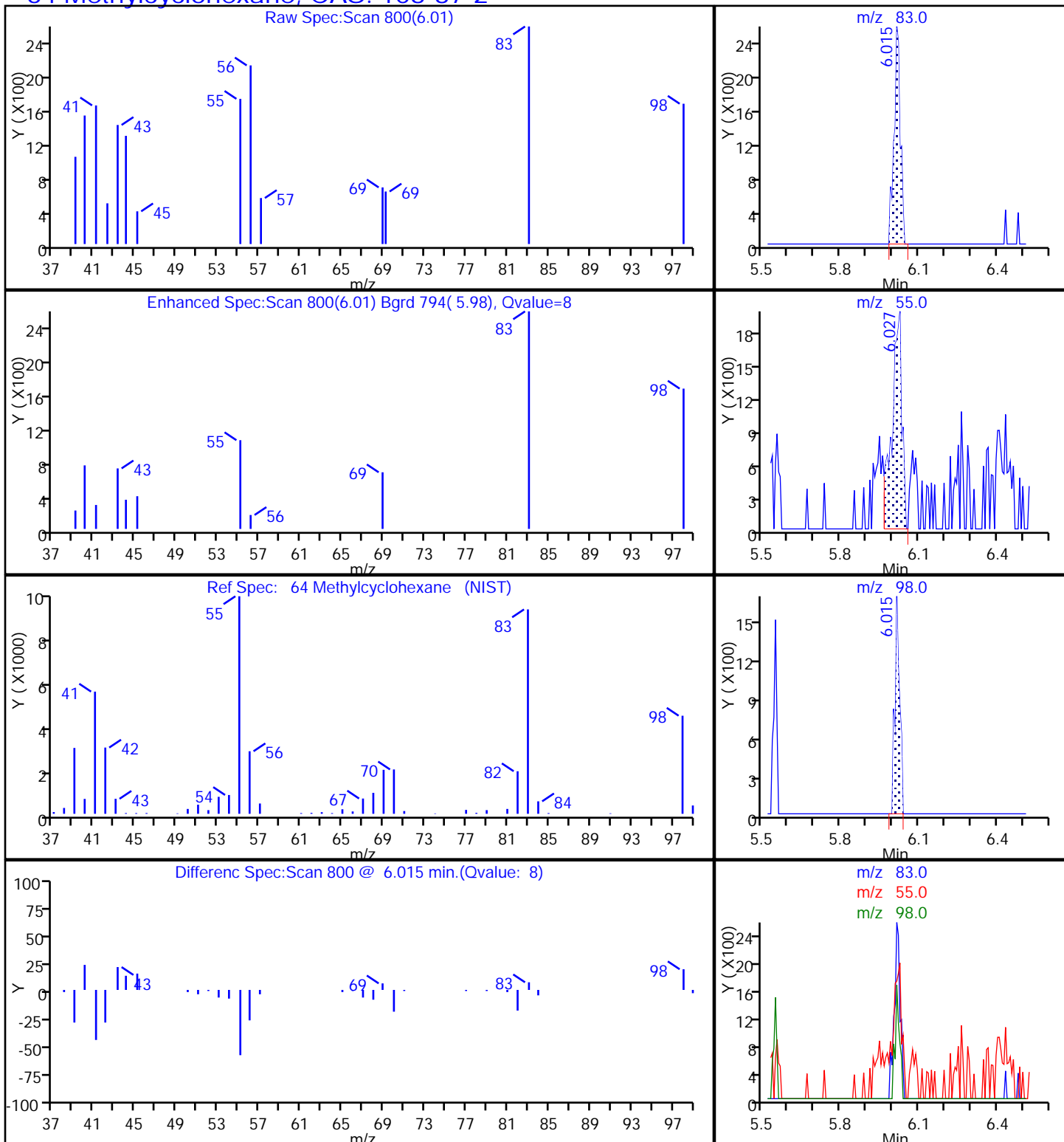
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

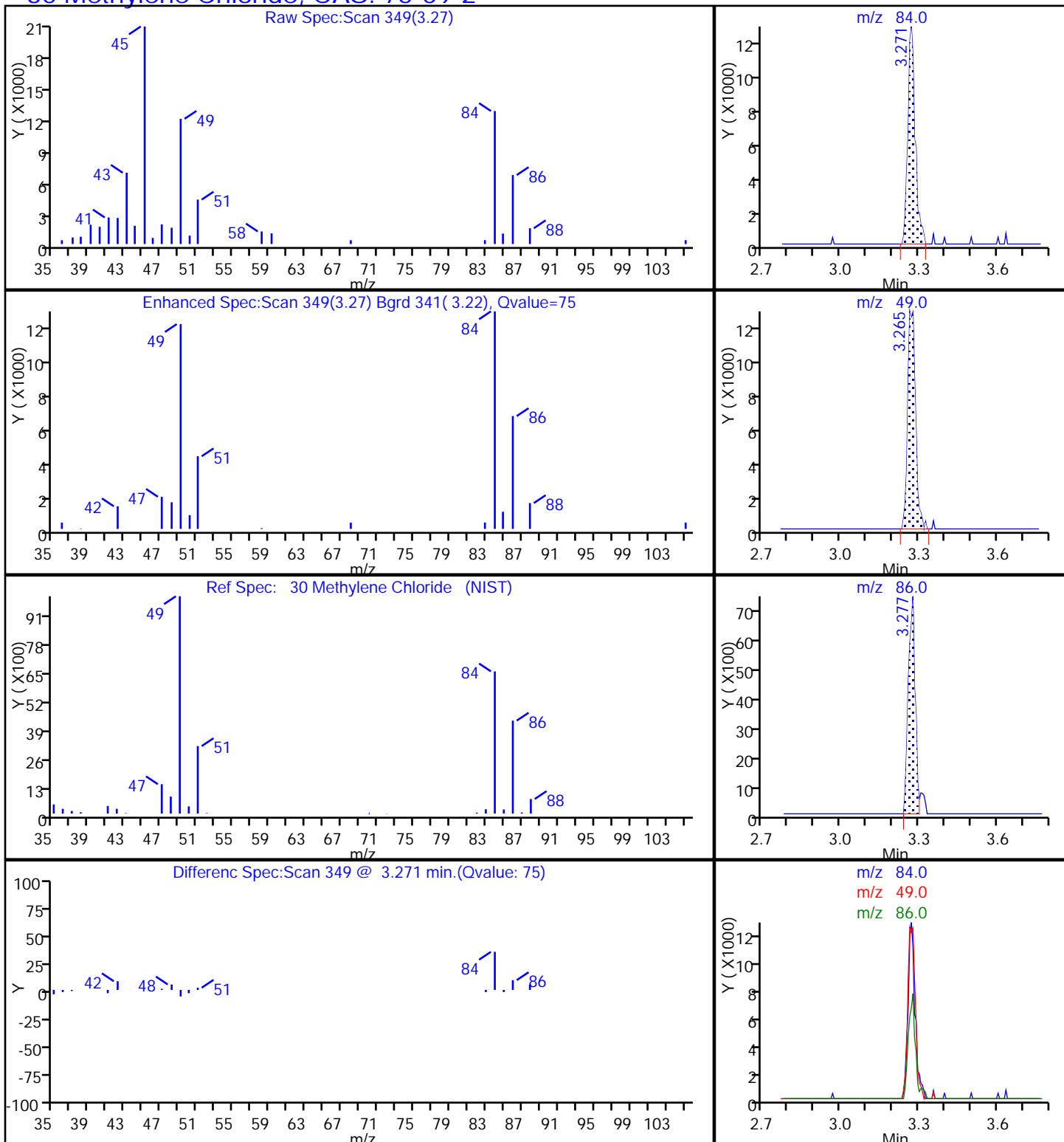
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

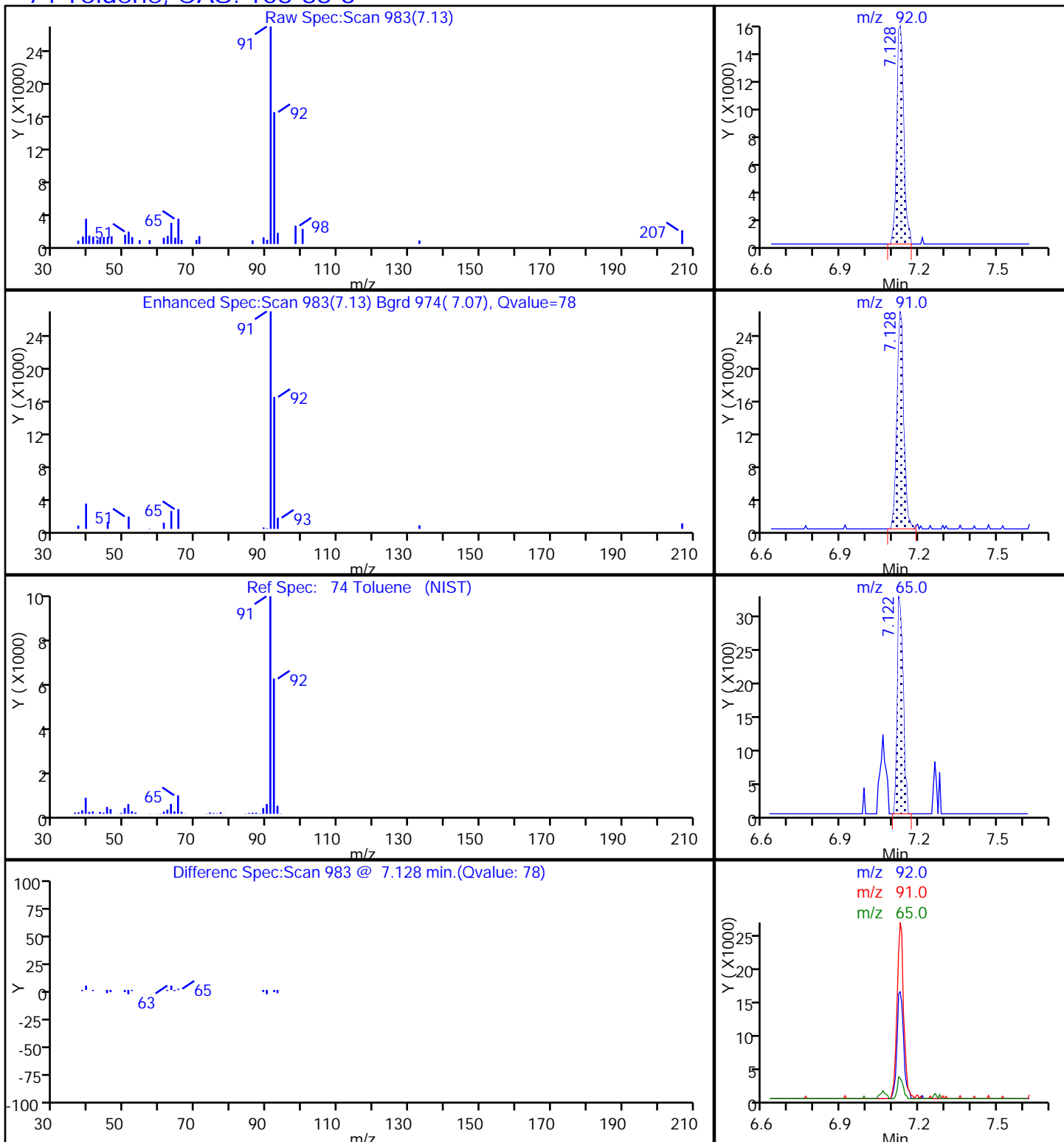
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

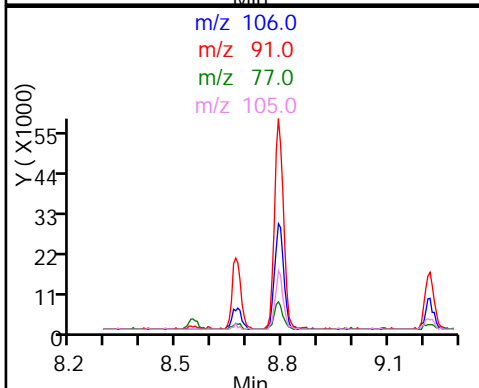
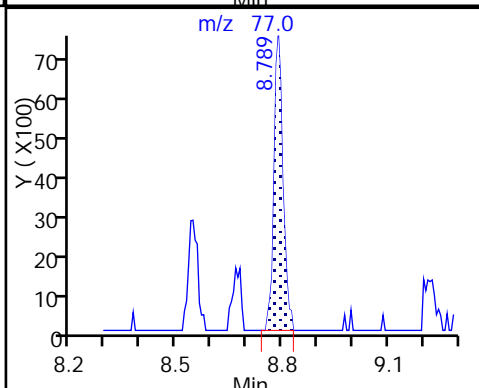
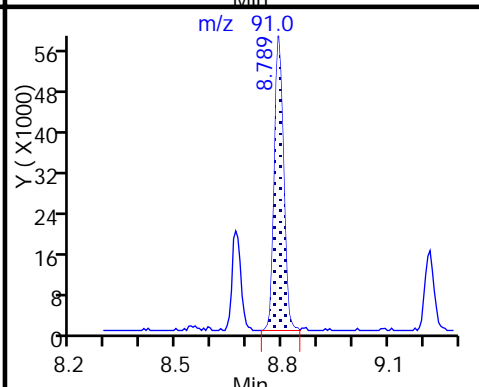
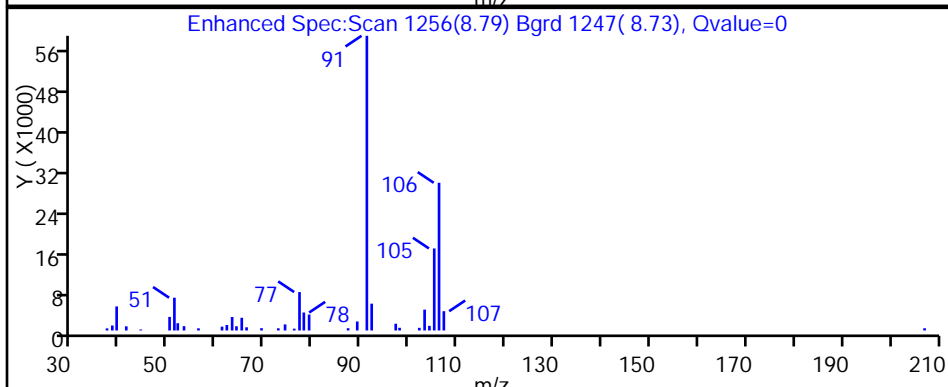
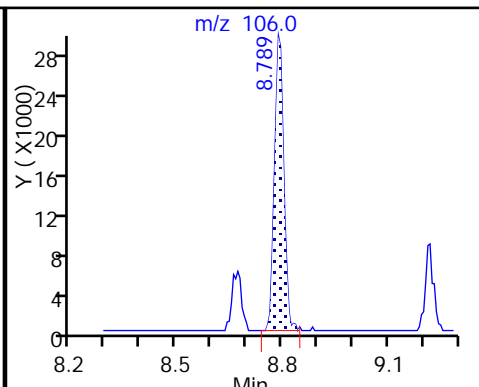
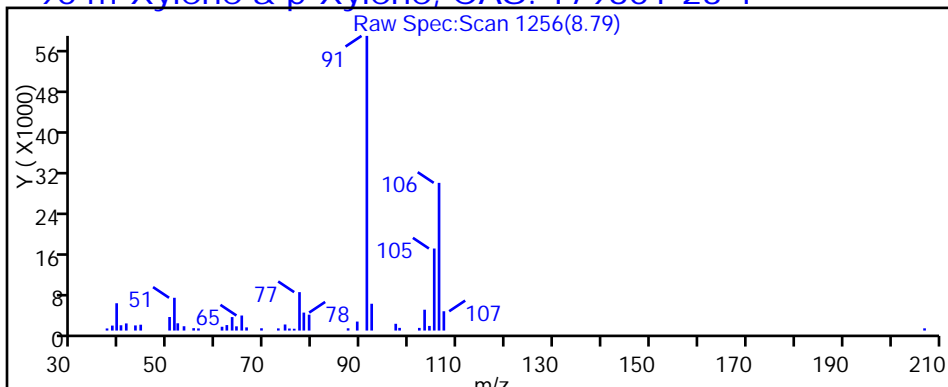
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

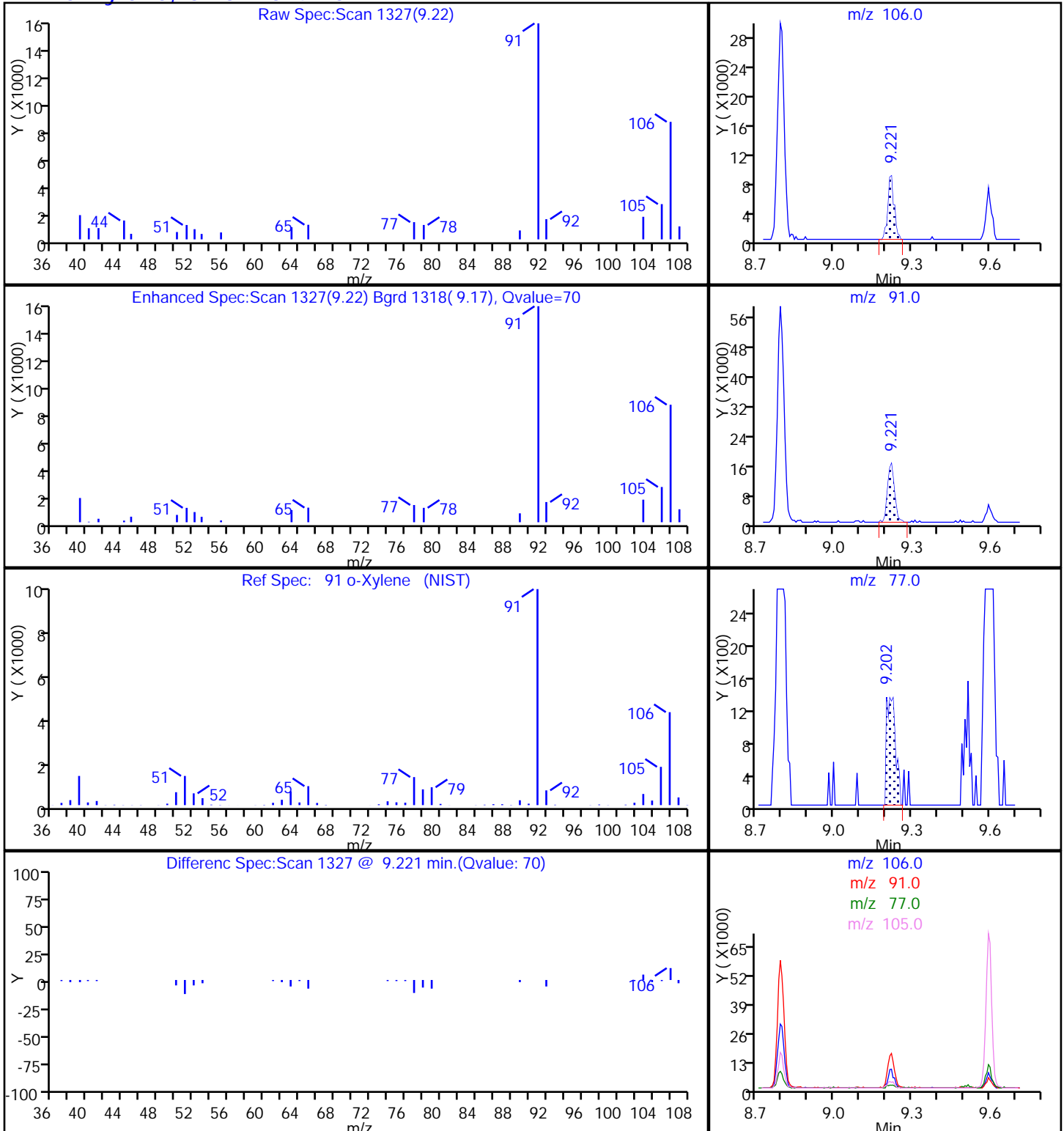
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

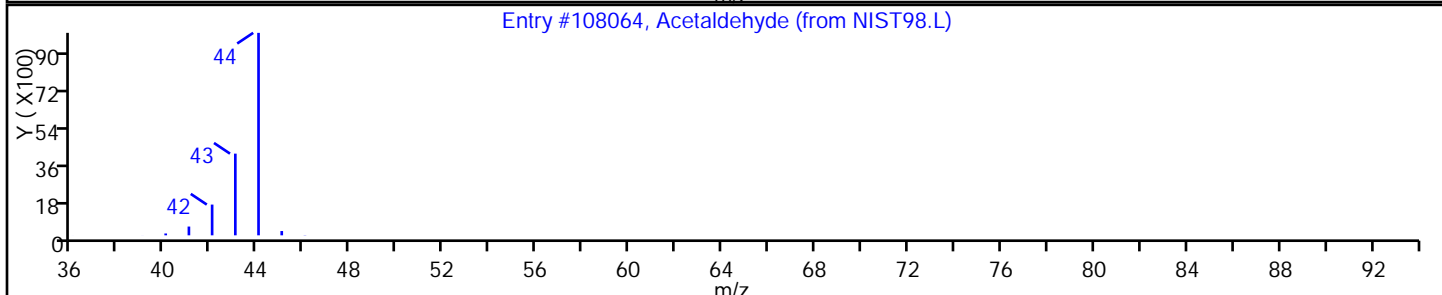
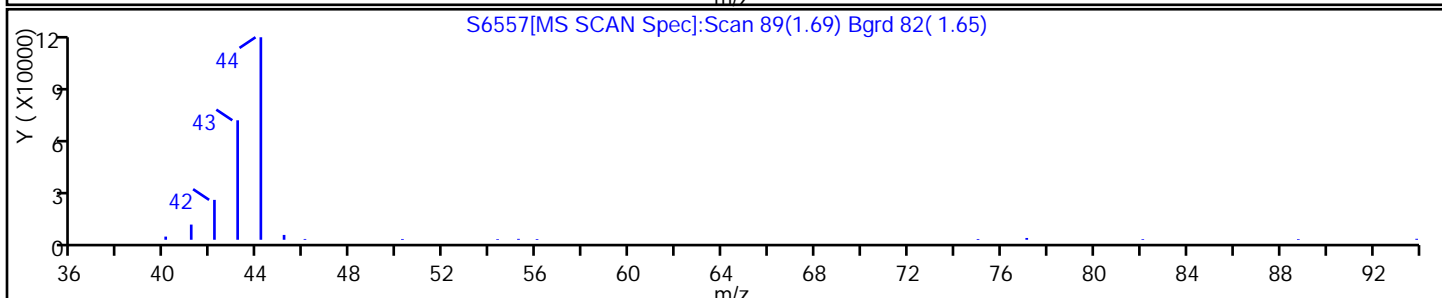
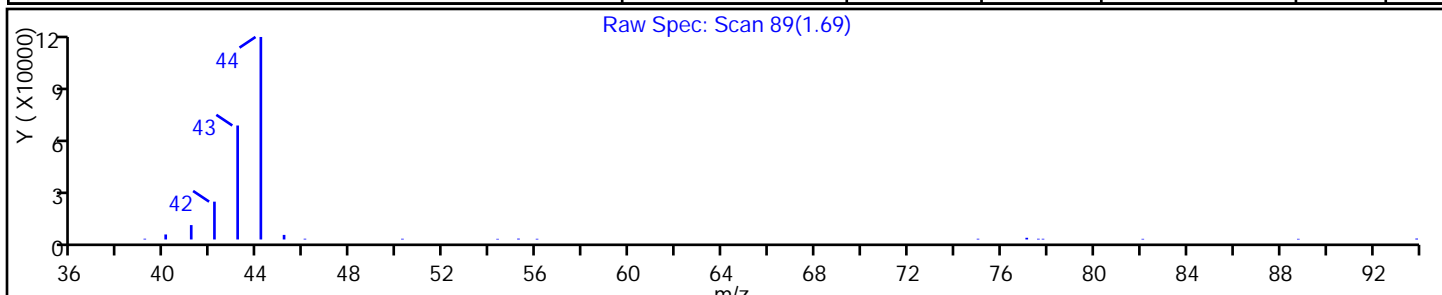
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Acetaldehyde	75-07-0	NIST98.L	108064	C2H4O	44	86



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

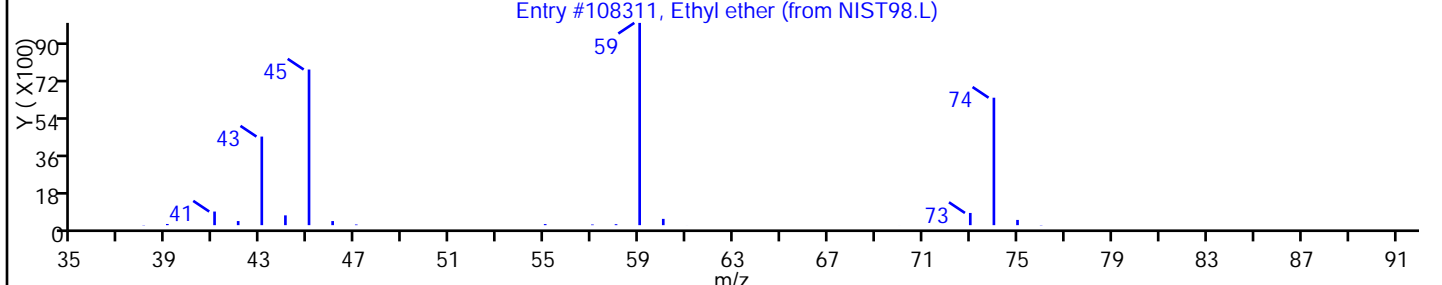
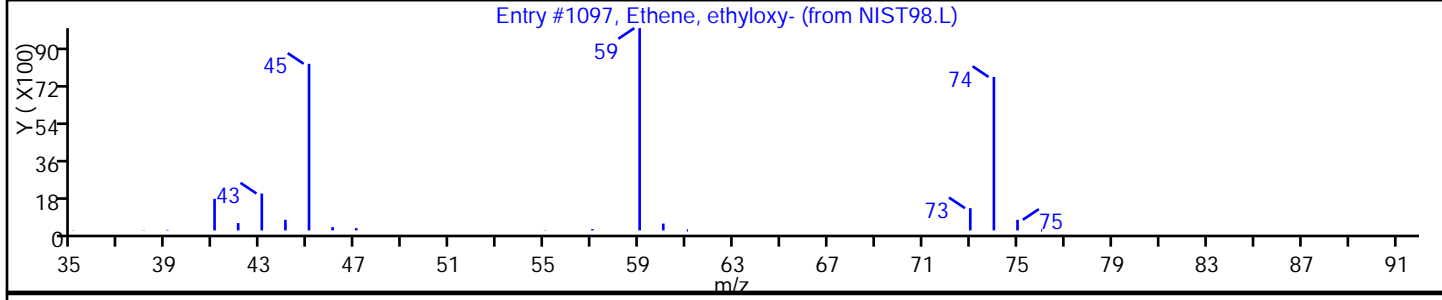
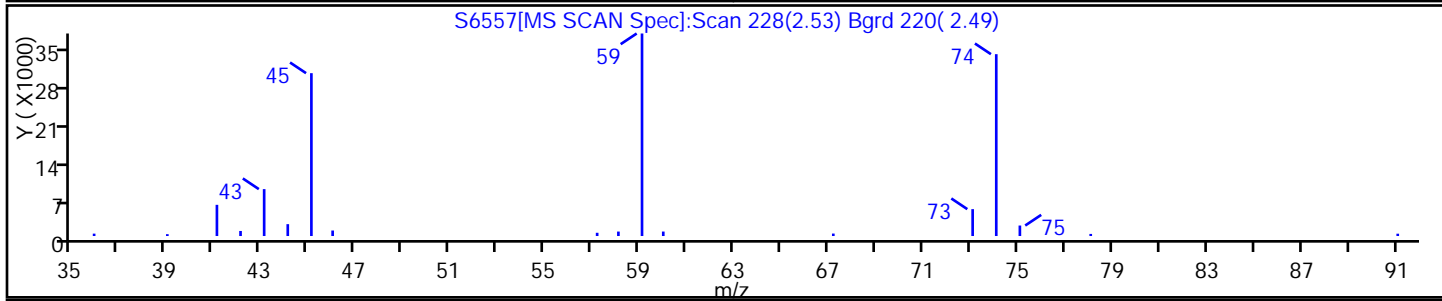
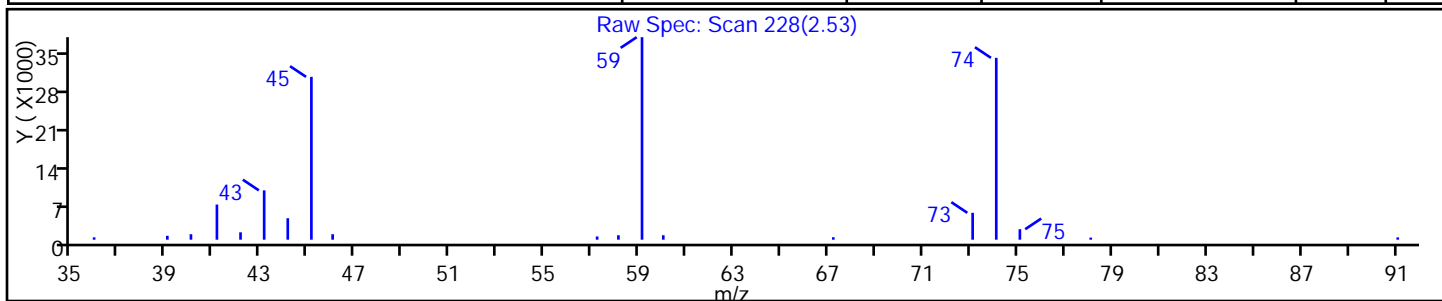
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethene, ethyloxy-	1000221-95-9	NIST98.L	1097	C4H10O	74	90
Ethyl ether	60-29-7	NIST98.L	108311	C4H10O	74	90



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

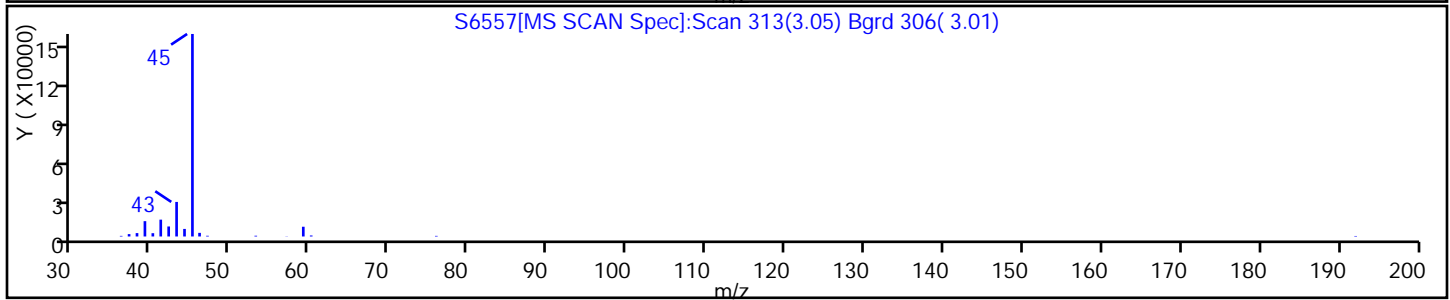
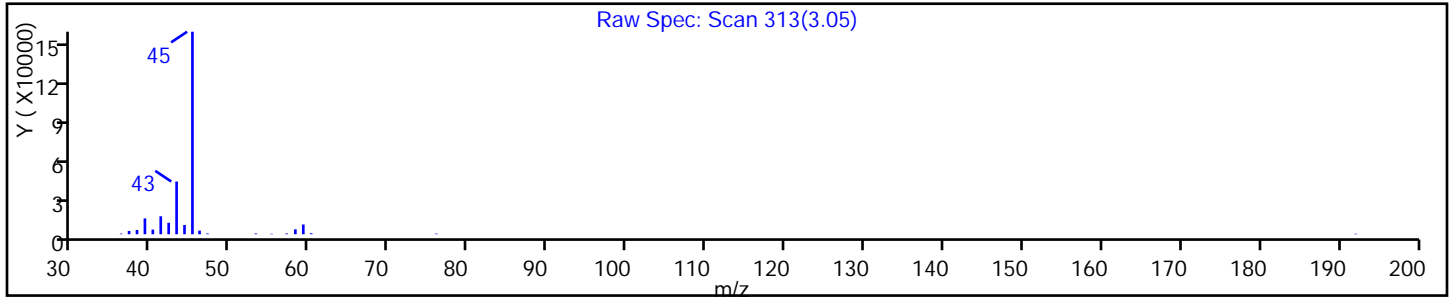
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

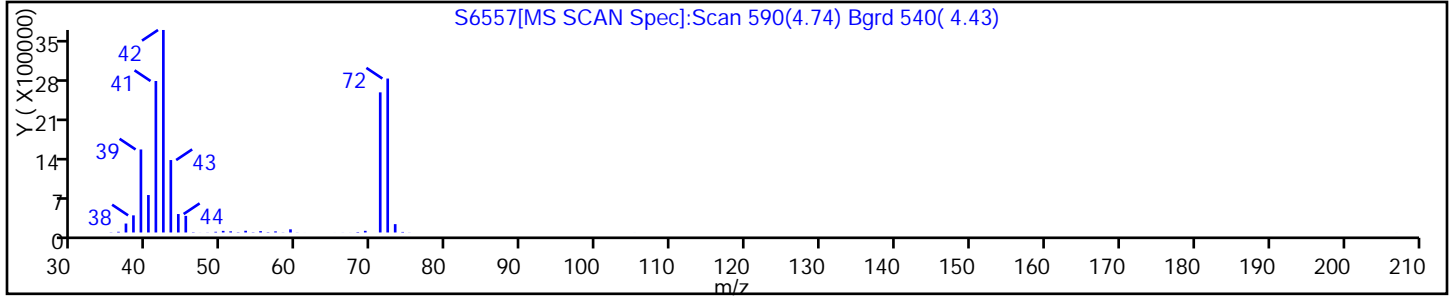
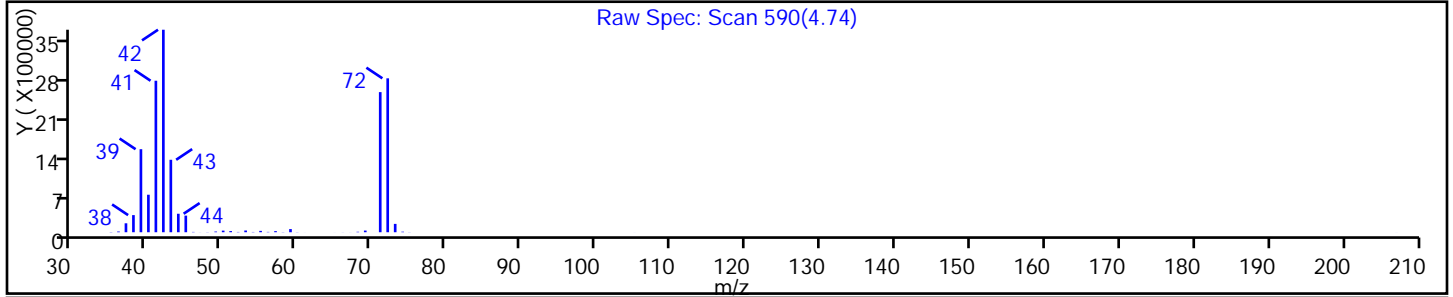
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

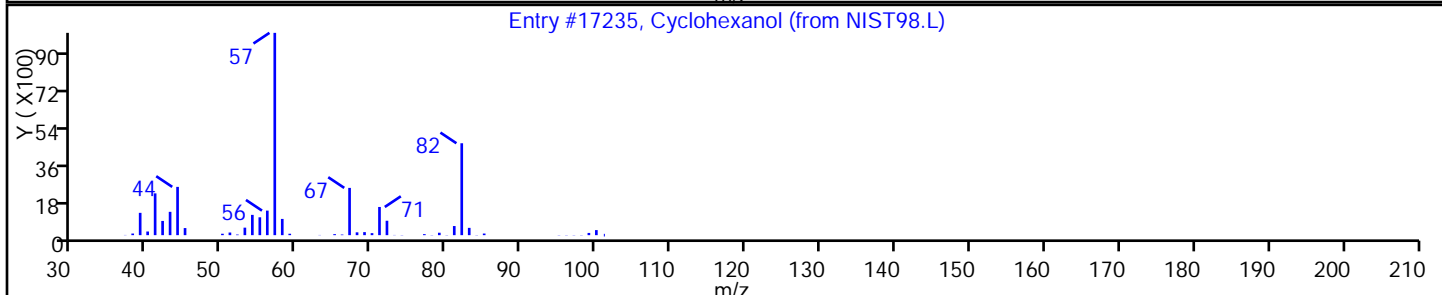
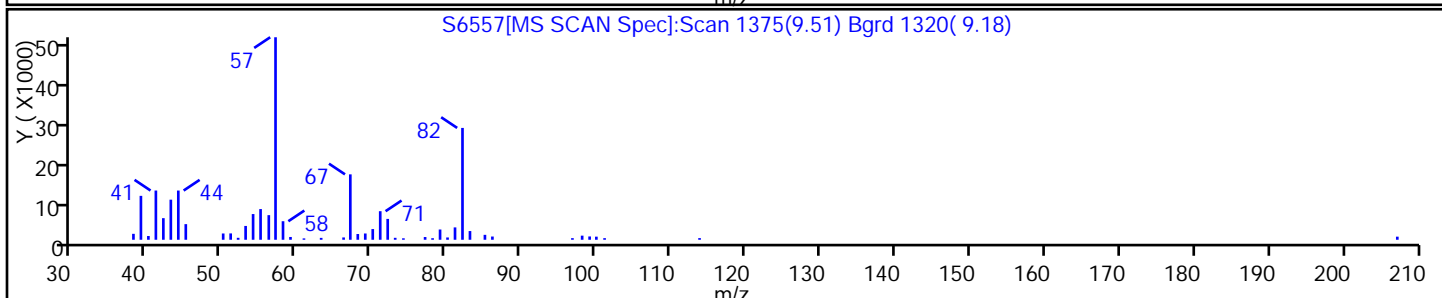
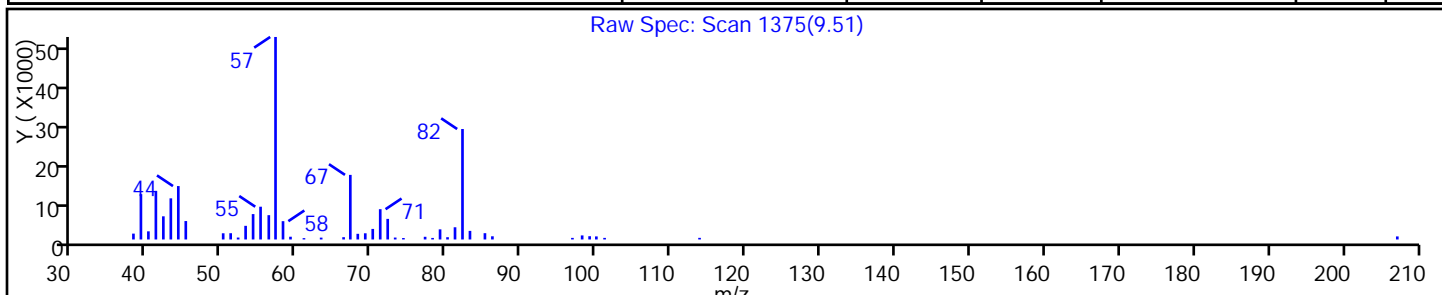
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclohexanol	108-93-0	NIST98.L	17235	C6H12O	100	86



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

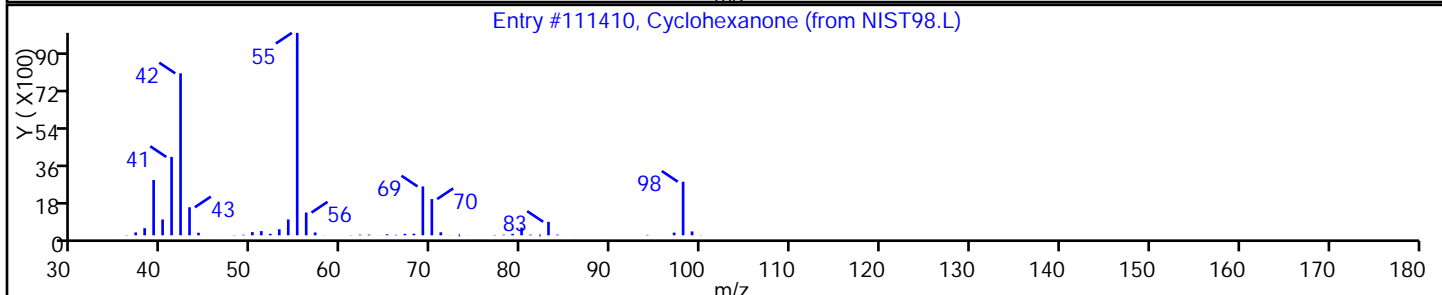
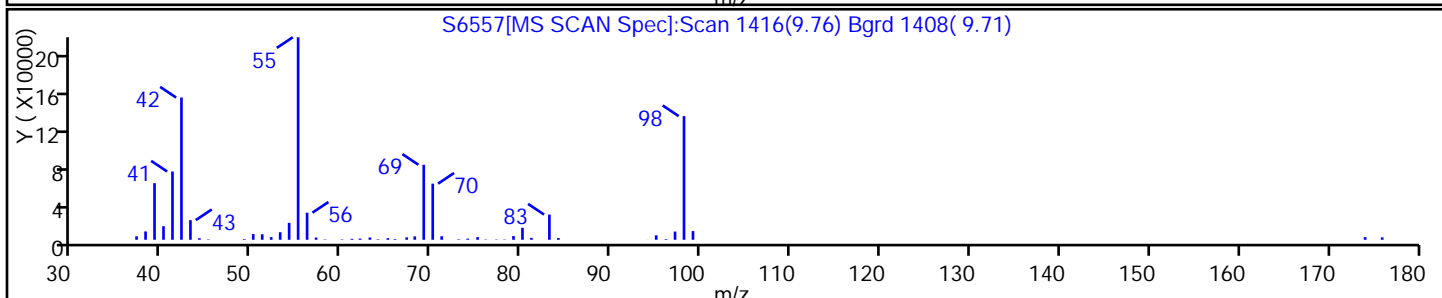
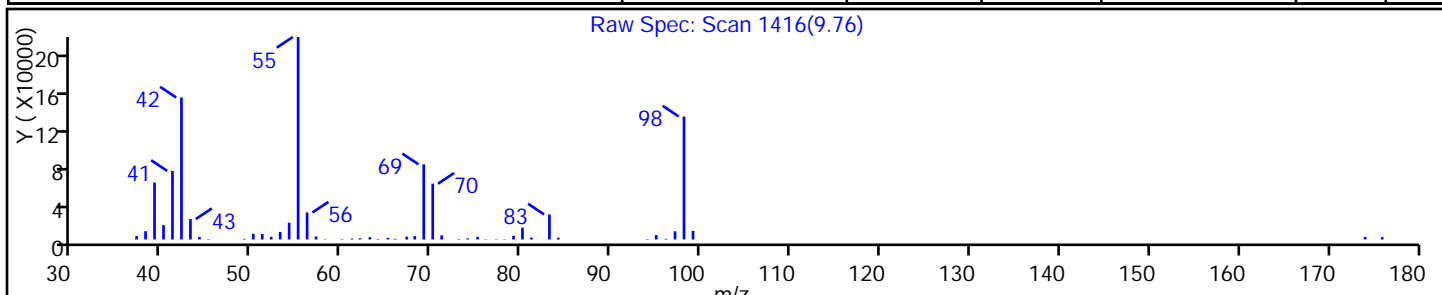
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclohexanone	108-94-1	NIST98.L	111410	C6H10O	98	94



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6557.D

Injection Date: 15-Jan-2018 13:36:30

Instrument ID: HP5973S

Lims ID: 480-129994-A-1

Lab Sample ID: 480-129994-1

Client ID: ML-7S

Operator ID: AM

ALS Bottle#: 6 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

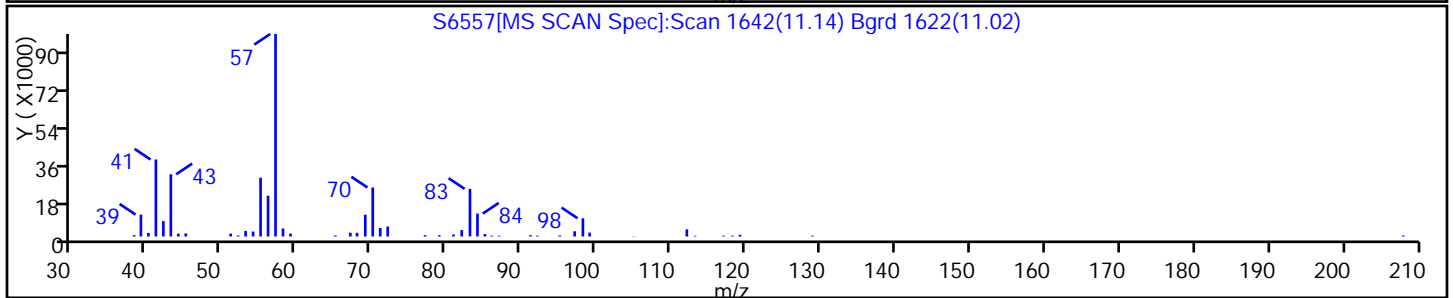
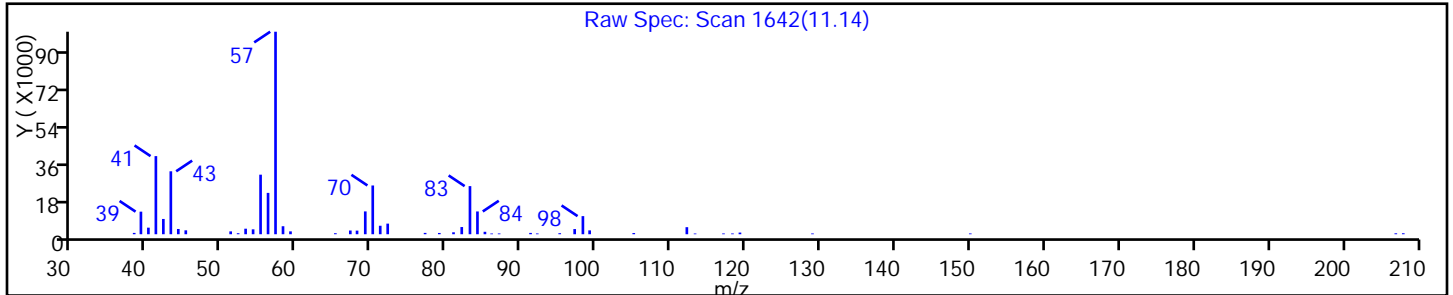
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-129994-2
 Matrix: Water Lab File ID: S6558.D
 Analysis Method: 8260C Date Collected: 01/09/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-129994-2
 Matrix: Water Lab File ID: S6558.D
 Analysis Method: 8260C Date Collected: 01/09/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-129994-2
 Matrix: Water Lab File ID: S6558.D
 Analysis Method: 8260C Date Collected: 01/09/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6558.D
 Lims ID: 480-129994-A-2
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 15-Jan-2018 14:00:30 ALS Bottle#: 7 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-129994-A-2
 Misc. Info.: 480-0068570-014
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 16-Jan-2018 08:56:20 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK025

First Level Reviewer: moffata

Date: 16-Jan-2018 08:56:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	131485	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	82	280000	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	92	316190	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	72	177630	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.266	0.001	0	101735	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	726514	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.000	96	262393	27.0	
10 Dichlorodifluoromethane	85		1.294				ND	
12 Chloromethane	50		1.482				ND	
13 Vinyl chloride	62		1.568				ND	
14 Bromomethane	94		1.884				ND	
15 Chloroethane	64		1.981				ND	
17 Trichlorofluoromethane	101		2.218				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.730				ND	
22 1,1-Dichloroethene	96		2.748				ND	
23 Acetone	43		2.869				ND	
26 Carbon disulfide	76		2.949				ND	
27 Methyl acetate	43		3.174				ND	
30 Methylene Chloride	84	3.271	3.265	0.006	17	1588	0.2197	
32 Methyl tert-butyl ether	73		3.490				ND	
34 trans-1,2-Dichloroethene	96		3.502				ND	
39 1,1-Dichloroethane	63		3.928				ND	
45 cis-1,2-Dichloroethene	96		4.482				ND	
43 2-Butanone (MEK)	43		4.518				ND	
50 Chloroform	83		4.798				ND	
51 1,1,1-Trichloroethane	97		4.914				ND	
52 Cyclohexane	56		4.926				ND	
55 Carbon tetrachloride	117		5.060				ND	
57 Benzene	78		5.272				ND	
58 1,2-Dichloroethane	62		5.333				ND	
62 Trichloroethene	95		5.887				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		6.015				ND	
65 1,2-Dichloropropane	63		6.124				ND	
68 Dichlorobromomethane	83		6.410				ND	
72 cis-1,3-Dichloropropene	75		6.830				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.976				ND	
74 Toluene	92		7.128				ND	
77 trans-1,3-Dichloropropene	75		7.396				ND	
79 1,1,2-Trichloroethane	83		7.590				ND	
81 Tetrachloroethene	166		7.663				ND	
80 2-Hexanone	43		7.815				ND	
83 Chlorodibromomethane	129		7.986				ND	
84 Ethylene Dibromide	107		8.095				ND	
87 Chlorobenzene	112		8.576				ND	
88 Ethylbenzene	91		8.667				ND	
90 m-Xylene & p-Xylene	106		8.789				ND	
91 o-Xylene	106		9.221				ND	
92 Styrene	104		9.245				ND	
95 Bromoform	173		9.488				ND	
94 Isopropylbenzene	105		9.598				ND	
97 1,1,2,2-Tetrachloroethane	83		9.987				ND	
111 1,3-Dichlorobenzene	146		10.857				ND	
113 1,4-Dichlorobenzene	146		10.942				ND	
116 1,2-Dichlorobenzene	146		11.289				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.013				ND	
119 1,2,4-Trichlorobenzene	180		12.688				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00275

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6558.D

Injection Date: 15-Jan-2018 14:00:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: 480-129994-A-2

Lab Sample ID: 480-129994-2

Worklist Smp#: 14

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

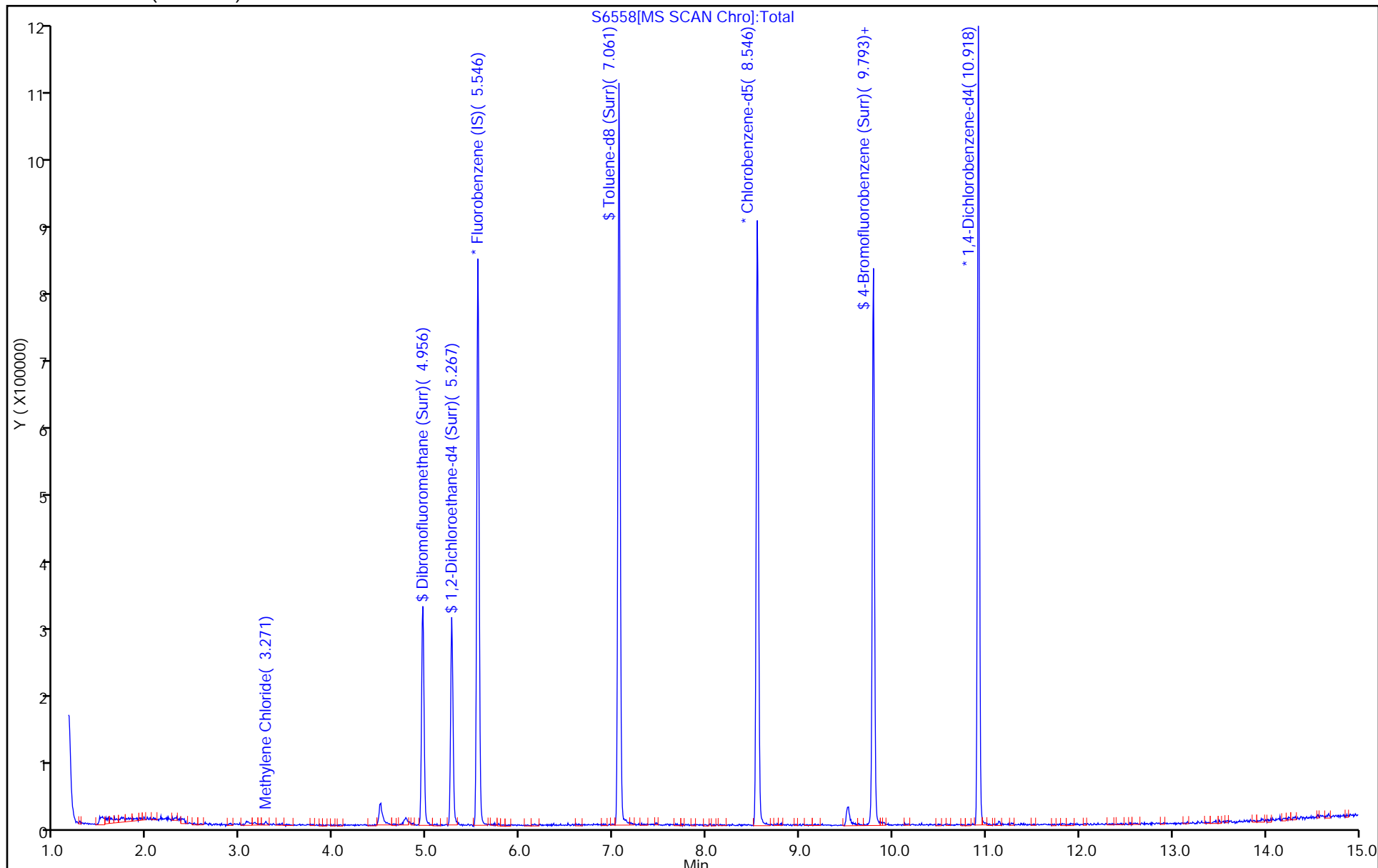
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-395114/4	S6363.D
Level 2	IC 480-395114/5	S6364.D
Level 3	IC 480-395114/6	S6365.D
Level 4	IC 480-395114/7	S6366.D
Level 5	IC 480-395114/8	S6367.D
Level 6	ICIS 480-395114/9	S6368.D
Level 7	IC 480-395114/10	S6369.D
Level 8	IC 480-395114/11	S6370.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	++++ 1.3732	1.2051 1.3963	1.5028 1.3714	1.0618	1.4434	Ave		1.3363		0.1000	11.3		20.0				
Chloromethane	1.3546 1.3230	1.4862 1.3597	1.5826 1.2709	1.2684	1.3901	Ave		1.3794		0.1000	7.8		20.0				
Vinyl chloride	++++ 1.4998	1.4125 1.4988	1.5255 1.4301	1.3132	1.4697	Ave		1.4499		0.1000	5.0		20.0				
Butadiene	1.4023 1.3541	1.5586 1.3553	1.8704 1.2549	1.3011	1.4339	Ave		1.4413			13.6		20.0				
Bromomethane	++++ 0.9623	1.3537 1.0268	1.2018 0.9588	1.0143	1.1159	Ave		1.0905		0.1000	13.3		20.0				
Chloroethane	1.9327 0.9274	1.3701 0.9116	1.0505 0.8732	1.0081	0.9974	Lin1	0.5125	0.8860		0.1000				0.9990		0.9900	
Dichlorofluoromethane	++++ 2.1243	2.6753 2.1462	2.4646 2.0723	1.8592	2.0397	Ave		2.1974			12.6		20.0				
Trichlorofluoromethane	++++ 1.7700	1.7994 1.7147	1.9241 1.6770	1.4849	1.7718	Ave		1.7346		0.1000	7.8		20.0				
Ethyl ether	++++ 1.0524	0.9766 1.0742	1.0219 1.0364	1.0492	1.0111	Ave		1.0317			3.1		20.0				
Acrolein	++++ 0.2189	0.3135 0.2294	0.2659 0.2228	0.2433	0.2206	Ave		0.2449			14.1		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.0344	0.7130 1.1163	0.8631 1.0723	1.0765	1.1160	Ave		0.9988		0.1000	15.3		20.0				
1,1-Dichloroethene	++++ 1.1101	0.8715 1.0704	1.0865 1.1389	1.0897	0.9677	Ave		1.0478		0.1000	9.0		20.0				
Acetone	++++ 0.4393	0.4828 0.4764	0.6012 0.4547	0.4424	0.4722	Ave		0.4813		0.1000	11.5		20.0				
Iodomethane	++++ 1.9873	1.5259 2.1235	2.0985 2.0778	1.9456	1.9178	Ave		1.9538			10.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1 Analy Batch No.: 395114
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	++++ 3.7063	2.9201 3.7396	3.5531 3.6484	3.7857	3.5857	Ave		3.5627		0.1000	8.3		20.0				
Allyl chloride	++++ 1.6284	1.7940 1.6705	1.5872 1.6502	1.5412	1.5151	Ave		1.6267			5.7		20.0				
Methyl acetate	1.8695 0.7598	1.2837 0.9015	0.8531 0.8721	0.9173	0.8324	Lin1	0.7566	0.8532		0.1000				0.9960		0.9900	
Methylene Chloride	++++ 1.2825	1.5825 1.2945	1.5867 1.2618	1.3098	1.3033	Ave		1.3744		0.1000	10.5		20.0				
2-Methyl-2-propanol	0.1090 0.1065	0.1114 0.1306	0.0910 0.1258	0.0986	0.1047	Ave		0.1097			12.0		20.0				
Methyl tert-butyl ether	3.9943 4.0011	4.1144 4.1833	4.1504 3.9921	4.0639	3.9457	Ave		4.0557		0.1000	2.1		20.0				
trans-1,2-Dichloroethene	++++ 1.2762	1.0048 1.3420	1.3969 1.2951	1.3309	1.2853	Ave		1.2759		0.1000	9.9		20.0				
Acrylonitrile	0.4282 0.4520	0.4632 0.4719	0.4712 0.4528	0.4679	0.4440	Ave		0.4564			3.3		20.0				
Hexane	++++ 1.7231	1.5218 1.6854	1.7557 1.7006	1.8644	1.5921	Ave		1.6919			6.6		20.0				
1,1-Dichloroethane	++++ 2.0662	1.7536 2.1350	2.0264 2.0513	2.0394	1.9541	Ave		2.0037		0.2000	6.1		20.0				
Vinyl acetate	++++ 2.3025	2.1515 2.4972	2.2662 2.3801	2.2161	2.2897	Ave		2.3005			4.9		20.0				
2,2-Dichloropropane	++++ 1.6890	1.6108 1.7008	1.6841 1.6365	1.6890	1.6316	Ave		1.6631			2.1		20.0				
cis-1,2-Dichloroethene	++++ 1.4533	1.3793 1.4946	1.5142 1.4549	1.4552	1.4641	Ave		1.4594		0.1000	2.9		20.0				
2-Butanone (MEK)	++++ 0.6175	0.6706 0.6125	0.5803 0.5937	0.5894	0.5537	Ave		0.6025		0.1000	6.1		20.0				
Chlorobromomethane	0.8169 0.7557	0.5713 0.7837	0.7811 0.7549	0.7789	0.6736	Ave		0.7395			10.8		20.0				
Tetrahydrofuran	++++ 0.3786	0.4271 0.3905	0.3682 0.3930	0.4233	0.3752	Ave		0.3937			5.9		20.0				
Chloroform	2.1624 2.1829	2.1379 2.2652	2.2371 2.1926	2.1794	2.1017	Ave		2.1824		0.2000	2.4		20.0				
1,1,1-Trichloroethane	++++ 1.9056	1.6912 1.9491	1.9233 1.9052	1.9725	1.8138	Ave		1.8801		0.1000	5.2		20.0				
Cyclohexane	++++ 1.8626	1.4788 1.8203	1.8618 1.8472	1.6498	1.6850	Ave		1.7436		0.1000	8.3		20.0				
Carbon tetrachloride	++++ 1.7862	1.4853 1.7837	1.7566 1.7733	1.6838	1.6317	Ave		1.7001		0.1000	6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1 Analy Batch No.: 395114
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	++++ 1.7272	1.5101 1.7811	1.6006 1.7429	1.7620	1.6542	Ave		1.6826			5.9		20.0				
Benzene	++++ 5.2354	5.0017 5.3275	5.3152 5.1091	5.2456	5.0144	Ave		5.1784		0.5000	2.6		20.0				
Isobutyl alcohol	0.0551 0.0640	0.0716 0.0669	0.0434 0.0666	0.0541	0.0625	Ave		0.0605			15.0		20.0				
1,2-Dichloroethane	1.7233 1.6865	1.7443 1.7325	1.7647 1.6696	1.6473	1.5919	Ave		1.6950		0.1000	3.4		20.0				
n-Heptane	++++ 1.7304	1.5609 1.6920	1.7769 1.7497	1.6866	1.6469	Ave		1.6919			4.3		20.0				
Trichloroethene	++++ 1.3921	1.1691 1.4318	1.4711 1.3596	1.3654	1.3534	Ave		1.3632		0.2000	7.0		20.0				
Methylcyclohexane	++++ 2.3408	1.7364 2.2999	2.1864 2.2885	2.2792	2.2152	Ave		2.1924		0.1000	9.5		20.0				
1,2-Dichloropropane	++++ 1.1795	1.1266 1.2439	1.2554 1.1920	1.1523	1.1053	Ave		1.1793		0.1000	4.8		20.0				
Dibromomethane	0.8191 0.8216	0.8437 0.8442	0.8845 0.8337	0.8551	0.7823	Ave		0.8355		0.1000	3.6		20.0				
1,4-Dioxane	++++ 0.0082	0.0017 0.0083	0.0049 0.0085	0.0070	0.0085	Lin1	-0.136	0.0085						1.0000		0.9900	
Bromodichloromethane	++++ 1.6907	1.4937 1.7827	1.6372 1.7426	1.6751	1.6325	Ave		1.6649		0.2000	5.6		20.0				
2-Chloroethyl vinyl ether	++++ 0.7985	0.7472 0.8670	0.7272 0.8326	0.7746	0.7843	Ave		0.7902			6.1		20.0				
cis-1,3-Dichloropropene	++++ 2.0315	1.6182 2.1582	1.9486 2.0742	1.8996	1.9974	Ave		1.9611		0.2000	8.8		20.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.6065	0.5886 0.6080	0.5972 0.5772	0.5743	0.5757	Ave		0.5896		0.1000	2.5		20.0				
Toluene	++++ 1.6765	1.5821 1.6949	1.7447 1.6570	1.6189	1.6038	Ave		1.6540		0.4000	3.4		20.0				
trans-1,3-Dichloropropene	++++ 0.9243	0.7796 0.9547	0.7965 0.9673	0.8412	0.8311	Ave		0.8706		0.1000	8.8		20.0				
Ethyl methacrylate	++++ 0.9370	0.7981 0.9490	0.8275 0.9244	0.8353	0.8672	Ave		0.8769			6.8		20.0				
1,1,2-Trichloroethane	0.4822 0.4824	0.4365 0.4894	0.4810 0.4764	0.4686	0.4569	Ave		0.4717		0.1000	3.7		20.0				
Tetrachloroethene	++++ 0.8223	0.6228 0.8186	0.7139 0.7947	0.7772	0.7842	Ave		0.7620		0.2000	9.3		20.0				
1,3-Dichloropropane	++++ 1.0091	0.9253 1.0137	1.0330 0.9850	1.0054	0.9325	Ave		0.9863			4.2		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129994-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.4600 0.4484	0.4378 0.4617	0.4625 0.4462	0.4647	0.4231	Ave		0.4505			0.1000	3.2		20.0			
Dibromochloromethane	++++ 0.6650	0.5297 0.6893	0.6299 0.6981	0.6054	0.6159	Ave		0.6333			0.1000	9.2		20.0			
1,2-Dibromoethane	0.5975 0.6378	0.6094 0.6405	0.5867 0.6231	0.5877	0.5909	Ave		0.6092				3.6		20.0			
Chlorobenzene	++++ 1.9135	1.7317 1.9149	1.8900 1.8585	1.8784	1.8194	Ave		1.8581			0.5000	3.5		20.0			
Ethylbenzene	++++ 3.1852	2.8885 3.1458	3.0050 2.9564	3.0842	3.0415	Ave		3.0438			0.1000	3.4		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.6636	0.5723 0.6833	0.6873 0.6766	0.6561	0.6121	Ave		0.6502				6.6		20.0			
m,p-Xylene	++++ 1.3148	1.1937 1.3141	1.2442 1.2781	1.2510	1.2228	Ave		1.2598			0.1000	3.6		20.0			
o-Xylene	++++ 1.2409	1.0143 1.2513	1.1734 1.2229	1.1988	1.1542	Ave		1.1794			0.3000	6.8		20.0			
Styrene	++++ 2.1313	1.7284 2.1810	2.0962 2.0983	1.9614	1.9817	Ave		2.0255			0.3000	7.5		20.0			
Bromoform	0.3848 0.4537	0.3443 0.4903	0.4008 0.4972	0.4033	0.3938	Ave		0.4210			0.1000	12.8		20.0			
Isopropylbenzene	++++ 3.0737	2.6775 2.9015	2.8999 2.8166	2.9762	2.8582	Ave		2.8862			0.1000	4.3		20.0			
Bromobenzene	++++ 0.8346	0.7010 0.7961	0.7807 0.8025	0.8106	0.7807	Ave		0.7866				5.3		20.0			
1,1,2,2-Tetrachloroethane	0.7551 0.7171	0.6466 0.7291	0.7991 0.7335	0.7130	0.7024	Ave		0.7245			0.3000	6.0		20.0			
1,2,3-Trichloropropane	0.2659 0.2543	0.2582 0.2500	0.2742 0.2486	0.2684	0.2487	Ave		0.2585				3.8		20.0			
N-Propylbenzene	++++ 3.5027	2.9924 3.3485	3.2793 3.1325	3.3146	3.2783	Ave		3.2640				5.0		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.1788	0.0891 0.1803	0.1096 0.1984	0.1191	0.1337	Ave		0.1441				28.9	*	20.0			
2-Chlorotoluene	++++ 0.7453	0.6561 0.7172	0.7324 0.7066	0.7046	0.7244	Ave		0.7124				4.0		20.0			
1,3,5-Trimethylbenzene	++++ 2.5953	2.2850 2.4806	2.4593 2.3834	2.4510	2.4160	Ave		2.4387				3.9		20.0			
4-Chlorotoluene	0.6907 0.7790	0.6230 0.7563	0.7432 0.7551	0.7433	0.7322	Ave		0.7278				6.8		20.0			
tert-Butylbenzene	++++ 0.6085	0.5488 0.6007	0.5972 0.5831	0.5808	0.5643	Ave		0.5833				3.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1 Analy Batch No.: 395114
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
1,2,4-Trimethylbenzene	2.3961 2.6539	2.3247 2.5287	2.6162 2.4352	2.5511	2.4451	Ave		2.4939			4.5		20.0				
sec-Butylbenzene	++++ 3.2976	2.8211 3.0996	3.2080 2.9429	3.1557	3.0651	Ave		3.0843			5.2		20.0				
1,3-Dichlorobenzene	++++ 1.5579	1.3164 1.5042	1.5672 1.4786	1.5107	1.4744	Ave		1.4871		0.6000	5.6		20.0				
4-Isopropyltoluene	++++ 2.9005	2.4281 2.7608	2.7418 2.6015	2.9063	2.6394	Ave		2.7112			6.3		20.0				
1,4-Dichlorobenzene	++++ 1.5792	1.4838 1.5446	1.6596 1.5077	1.5729	1.4963	Ave		1.5491		0.5000	4.0		20.0				
n-Butylbenzene	++++ 2.5480	2.1008 2.4093	2.5246 2.2616	2.3075	2.3035	Ave		2.3508			6.7		20.0				
1,2-Dichlorobenzene	++++ 1.4998	1.2804 1.4567	1.4691 1.4143	1.4441	1.4310	Ave		1.4279		0.4000	4.9		20.0				
1,2-Dibromo-3-Chloropropane	0.0881 0.1441	0.0861 0.1459	0.1196 0.1494	0.1383	0.1388	Lin1	-0.045	0.1480		0.0500				1.0000		0.9900	
1,2,4-Trichlorobenzene	++++ 1.1523	1.0347 1.1177	1.0368 1.0858	1.1511	1.0713	Ave		1.0928		0.2000	4.5		20.0				
Hexachlorobutadiene	++++ 0.5535	0.4535 0.5227	0.5516 0.5055	0.5581	0.5231	Ave		0.5240			7.0		20.0				
Naphthalene	2.7935 2.8345	2.5852 2.7908	2.8596 2.6944	2.7687	2.6654	Ave		2.7490			3.4		20.0				
1,2,3-Trichlorobenzene	++++ 1.0960	0.9345 1.0581	1.0418 1.0252	1.0813	1.0168	Ave		1.0363			5.1		20.0				
Dibromofluoromethane (Surr)	1.2677 1.2427	1.2283 1.3038	1.3210 1.2627	1.2649	1.2781	Ave		1.2712			2.4		20.0				
1,2-Dichloroethane-d4 (Surr)	0.7657 0.7324	0.7703 0.7674	0.8130 0.7641	0.7656	0.7731	Ave		0.7690			2.8		20.0				
Toluene-d8 (Surr)	2.4863 2.4636	2.5099 2.4793	2.5664 2.5024	2.4863	2.4820	Ave		2.4970			1.3		20.0				
4-Bromofluorobenzene (Surr)	0.8637 0.8575	0.8745 0.8758	0.8901 0.8662	0.8687	0.8575	Ave		0.8692			1.2		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-395114/4	S6363.D
Level 2	IC 480-395114/5	S6364.D
Level 3	IC 480-395114/6	S6365.D
Level 4	IC 480-395114/7	S6366.D
Level 5	IC 480-395114/8	S6367.D
Level 6	ICIS 480-395114/9	S6368.D
Level 7	IC 480-395114/10	S6369.D
Level 8	IC 480-395114/11	S6370.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 228866	7658 447656	18451 914056	33546	92111	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	4288 220489	9444 435912	19431 847109	40071	88708	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 249956	8976 480523	18730 953184	41486	93789	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	4439 225682	9904 434524	22964 836458	41104	91508	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 160386	8602 329202	14755 639100	32045	71215	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Lin1	6118 154565	8706 292256	12898 581997	31849	63651	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	++++ 354050	17000 688074	30260 1381233	58737	130164	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 295003	11434 549736	23623 1117793	46911	113070	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	++++ 175400	6206 344375	12546 690803	33148	64523	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 182386	9961 367719	16326 742443	38427	70388	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 172402	4531 357897	10597 714686	34011	71216	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	++++ 185007	5538 343170	13340 759077	34427	61755	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 366100	15341 763626	36906 1515206	69875	150653	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	++++ 331208	9696 680807	25765 1384918	61465	122384	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	++++ 617714	18556 1198937	43624 2431777	119601	228825	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129994-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	++++ 271400	11400 535550	19487 1099935	48690	96690	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Lin1	11836 253271	16314 578054	20949 1162544	57958	106246	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Ave	++++ 213740	10056 415017	19481 841028	41379	83172	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3450 177523	7081 418769	11174 838444	31150	66791	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	12644 666833	26145 1341184	50957 2660879	128388	251798	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 212704	6385 430248	17151 863205	42047	82025	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	13556 753242	29431 1512916	57855 3018045	147836	283372	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	++++ 287182	9670 540329	21556 1133503	58901	101601	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	++++ 344356	11143 684498	24880 1367268	64430	124699	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	++++ 767480	27343 1601215	55647 3172748	140026	292231	++++ 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	++++ 281488	10236 545293	20677 1090781	53361	104123	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	++++ 242221	8765 479168	18591 969744	45974	93434	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	++++ 514572	21306 981814	35621 1978443	93098	176677	++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2586 125955	3630 251259	9590 503161	24606	42985	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	++++ 126197	5428 250374	9041 523854	26747	47889	++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6845 363814	13585 726226	27467 1461401	68854	134121	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	++++ 317603	10747 624899	23614 1269842	62315	115751	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	++++ 310432	9397 583599	22858 1231205	52122	107530	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	++++ 297697	9438 571861	21567 1181965	53197	104128	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	++++ 287865	9596 571011	19652 1161709	55667	105564	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	++++ 872548	31783 1708015	65258 3405384	165723	319996	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129994-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	4357 266833	11376 536145	13329 1109896	42758	99773	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5455 281074	11084 555452	21666 1112826	52042	101591	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	++++ 288393	9919 542453	21816 1166252	53284	105097	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	++++ 232019	7429 459042	18062 906220	43135	86370	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	++++ 390127	11034 737359	26844 1525363	72006	141365	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	++++ 196585	7159 398784	15413 794508	36403	70535	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2593 136925	5361 270642	10860 555699	27015	49920	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	++++ 55816	450 111742	2577 234045	9431	22915	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	++++ 281780	9492 571539	20101 1161506	52921	104182	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 133089	4748 277966	8928 554979	24473	50050	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	++++ 338583	10283 691934	23924 1382509	60013	127464	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 1038179	39105 2049343	77955 3969955	193133	389686	++++ 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	++++ 573941	21022 1142634	45551 2279509	108887	217131	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 316408	10359 643636	20795 1330657	56578	112516	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	++++ 320765	10605 639803	21604 1271705	56185	117413	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3219 165136	5800 329923	12557 655334	31518	61862	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 281499	8276 551916	18639 1093313	52276	106167	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 345447	12295 683418	26969 1355048	67623	126250	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	15354 767444	29087 1556330	60371 3069448	156268	286409	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	++++ 227660	7039 464740	16445 960414	40719	83391	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3989 218358	8097 431800	15317 857263	39527	80000	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-129994-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	++++ 655055	23011 1291015	49343 2556714	126344	246321	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 1090400	38382 2120818	78455 4067161	207445	411776	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 227187	7605 460688	17945 930808	44131	82876	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	++++ 450111	15861 885913	32483 1758300	84142	165553	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	++++ 424820	13478 843569	30635 1682319	80633	156264	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	++++ 729624	22967 1470378	54727 2886675	131925	268301	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2569 155329	4575 330533	10463 684016	27124	53310	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	++++ 1124832	38098 2161384	79703 4149484	214012	416894	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	++++ 305414	9974 593033	21457 1182211	58292	113870	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5367 262416	9200 543147	21962 1080627	51269	102449	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1890 93061	3674 186251	7536 366275	19301	36278	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	++++ 1281826	42578 2494331	90130 4614918	238344	478174	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 65419	1268 134285	3012 292231	8562	19499	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	++++ 272748	9336 534267	20129 1040944	50665	105666	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 949771	32512 1847863	67594 3511320	176244	352395	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	4909 285066	8864 563356	20427 1112388	53452	106801	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 222667	7809 447451	16414 859089	41762	82313	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	17031 971219	33077 1883643	71905 3587606	183445	356647	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 1206791	40141 2308921	88170 4335522	226916	447071	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 570133	18730 1120470	43075 2178348	108628	215058	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 1061450	34549 2056564	75358 3832555	208986	384983	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 577920	21112 1150561	45613 2221187	113102	218249	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	++++ 932451	29892 1794741	69389 3331858	165924	335985	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 548845	18218 1085090	40379 2083589	103843	208718	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	626 52739	1225 108654	3287 220136	9946	20245	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 421678	14723 832573	28497 1599598	82771	156257	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 202553	6453 389378	15161 744780	40129	76304	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	19855 1037306	36784 2078900	78594 3969443	199091	388771	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 401086	13297 788196	28634 1510374	77754	148316	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	200653 207112	195129 209003	202738 210413	199814	203912	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	121187 122068	122372 123014	124776 127329	120931	123345	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	829921 843396	833778 835748	837535 860639	836148	840056	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	288286 293554	290513 295222	290468 297924	292156	290230	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Jan-2018 00:42:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0068466-004
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:16 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:53:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	158275	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	82	333792	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	93	355383	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	80	200653	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	121187	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	829921	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.001	95	288286	25.0	24.8	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	28	2259	0.5000	0.2670	
12 Chloromethane	50	1.482	1.488	-0.006	39	4288	0.5000	0.4910	
13 Vinyl chloride	62	1.574	1.574	0.000	21	3242	0.5000	0.3532	
151 Butadiene	54	1.568	1.598	-0.030	0	4439	0.5000	0.4865	
14 Bromomethane	94	1.908	1.902	0.006	31	5112	0.5000	0.7404	
15 Chloroethane	64	1.975	1.993	-0.018	1	6118	0.5000	0.5123	
16 Dichlorofluoromethane	67	2.219	2.212	0.006	33	4521	0.5000	0.3250	
17 Trichlorofluoromethane	101	2.219	2.225	-0.007	1	2934	0.5000	0.2672	M
18 Ethyl ether	59	2.535	2.535	0.000	67	3496	0.5000	0.5352	
20 Acrolein	56	2.699	2.711	-0.012	62	5481	2.50	3.53	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.736	-0.006	1	847	0.5000	0.1339	M
22 1,1-Dichloroethene	96	2.748	2.754	-0.006	39	2147	0.5000	0.3236	
23 Acetone	43	2.882	2.875	0.007	84	14317	2.50	4.70	M
25 Iodomethane	142	2.906	2.912	-0.006	74	4934	0.5000	0.3989	
26 Carbon disulfide	76	2.955	2.955	0.000	90	8219	0.5000	0.3644	
28 3-Chloro-1-propene	41	3.137	3.131	0.006	30	7180	0.5000	0.6972	
27 Methyl acetate	43	3.198	3.180	0.018	70	11836	1.00	1.30	
30 Methylene Chloride	84	3.271	3.271	0.000	56	7245	0.5000	0.8326	
31 2-Methyl-2-propanol	59	3.453	3.441	0.012	37	3450	5.00	4.97	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	69	12644	0.5000	0.4924	
34 trans-1,2-Dichloroethene	96	3.502	3.508	-0.006	34	3487	0.5000	0.4317	
33 Acrylonitrile	53	3.569	3.557	0.012	81	13556	5.00	4.69	
35 Hexane	57	3.715	3.715	0.000	48	3753	0.5000	0.3504	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	40	5472	0.5000	0.4314	
37 Vinyl acetate	43	3.989	3.983	0.006	75	17650	1.00	1.21	
44 2,2-Dichloropropane	77	4.469	4.457	0.012	25	4001	0.5000	0.3800	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	22	4174	0.5000	0.4518	
43 2-Butanone (MEK)	43	4.549	4.524	0.025	75	12593	2.50	3.30	
48 Chlorobromomethane	128	4.725	4.725	0.000	47	2586	0.5000	0.5523	
49 Tetrahydrofuran	42	4.774	4.755	0.019	57	3478	1.00	1.40	
50 Chloroform	83	4.792	4.798	-0.006	40	6845	0.5000	0.4954	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	21	4286	0.5000	0.3601	
52 Cyclohexane	56	4.926	4.938	-0.012	9	3593	0.5000	0.3255	
55 Carbon tetrachloride	117	5.066	5.059	0.007	56	3335	0.5000	0.3098	
54 1,1-Dichloropropene	75	5.072	5.078	-0.006	1	3676	0.5000	0.3451	
57 Benzene	78	5.285	5.278	0.007	35	13895	0.5000	0.4238	
53 Isobutyl alcohol	43	5.291	5.278	0.013	17	4357	12.5	11.4	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	19	5455	0.5000	0.5083	
59 n-Heptane	43	5.467	5.467	0.000	60	2910	0.5000	0.2717	
62 Trichloroethene	95	5.893	5.893	0.000	51	2822	0.5000	0.3270	
64 Methylcyclohexane	83	6.009	6.015	-0.006	36	4526	0.5000	0.3261	
65 1,2-Dichloropropane	63	6.130	6.124	0.006	42	3401	0.5000	0.4555	
67 Dibromomethane	93	6.276	6.264	0.012	53	2593	0.5000	0.4902	
66 1,4-Dioxane	88		6.282				ND	ND	
68 Dichlorobromomethane	83	6.416	6.416	0.000	10	4515	0.5000	0.4283	
69 2-Chloroethyl vinyl ether	63	6.708	6.696	0.012	9	1478	0.5000	0.2954	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	44	5140	0.5000	0.4140	
73 4-Methyl-2-pentanone (MIBK)	43	6.988	6.976	0.012	80	17738	2.50	2.25	
74 Toluene	92	7.122	7.128	-0.006	50	9043	0.5000	0.4095	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	38	4540	0.5000	0.3906	
75 Ethyl methacrylate	69	7.463	7.450	0.013	32	4201	0.5000	0.3588	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	25	3219	0.5000	0.5112	
81 Tetrachloroethene	166	7.663	7.663	0.000	50	3509	0.5000	0.3449	
82 1,3-Dichloropropane	76	7.761	7.755	0.007	36	6973	0.5000	0.5295	
80 2-Hexanone	43	7.828	7.815	0.013	84	15354	2.50	2.55	
83 Chlorodibromomethane	129	7.992	7.986	0.006	24	3420	0.5000	0.4044	
84 Ethylene Dibromide	107	8.095	8.095	0.000	50	3989	0.5000	0.4904	
87 Chlorobenzene	112	8.576	8.576	0.000	21	10472	0.5000	0.4221	
88 Ethylbenzene	91	8.673	8.667	0.006	25	19547	0.5000	0.4810	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	1	3482	0.5000	0.4011	
90 m-Xylene & p-Xylene	106	8.795	8.789	0.006	0	6168	0.5000	0.3667	
91 o-Xylene	106	9.221	9.221	0.000	52	6703	0.5000	0.4257	
92 Styrene	104	9.245	9.245	0.000	49	10516	0.5000	0.3889	
95 Bromoform	173	9.488	9.488	0.000	15	2569	0.5000	0.4570	
94 Isopropylbenzene	105	9.598	9.598	0.000	46	17680	0.5000	0.4309	
101 Bromobenzene	156	9.951	9.939	0.013	47	4985	0.5000	0.4458	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.981	0.006	3	5367	0.5000	0.5211	
100 1,2,3-Trichloropropane	110	10.024	10.018	0.006	12	1890	0.5000	0.5142	
99 N-Propylbenzene	91	10.024	10.024	0.000	79	20670	0.5000	0.4455	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	0	413	0.5000	0.2016	M
103 2-Chlorotoluene	126	10.127	10.127	0.000	54	3977	0.5000	0.3927	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	52	14453	0.5000	0.4169	
105 4-Chlorotoluene	126	10.237	10.237	0.000	35	4909	0.5000	0.4745	
106 tert-Butylbenzene	134	10.510	10.510	0.000	52	3527	0.5000	0.4253	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	50	17031	0.5000	0.4804	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	45	18465	0.5000	0.4212	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	42	9226	0.5000	0.4364	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	58	13564	0.5000	0.3519	
113 1,4-Dichlorobenzene	146	10.936	10.942	-0.006	15	10025	0.5000	0.4552	
115 n-Butylbenzene	91	11.247	11.246	0.001	62	12331	0.5000	0.3690	
116 1,2-Dichlorobenzene	146	11.295	11.289	0.006	56	9076	0.5000	0.4471	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.013	0.006	1	626	0.5000	0.6013	M
119 1,2,4-Trichlorobenzene	180	12.694	12.688	0.006	29	6336	0.5000	0.4079	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	8	2883	0.5000	0.3870	
121 Naphthalene	128	12.907	12.901	0.006	64	19855	0.5000	0.5081	
122 1,2,3-Trichlorobenzene	180	13.108	13.102	0.006	39	6025	0.5000	0.4090	
S 124 Xylenes, Total	1				0			0.7924	
S 123 Total BTEX	1				0			2.11	
S 126 1,3-Dichloropropene, Total	1				0			0.8045	
S 125 1,2-Dichloroethene, Total	1				0			0.8834	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 0.50

Units: uL

GAS CORP mix_00259

Amount Added: 0.50

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D

Injection Date: 10-Jan-2018 00:42:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 0.5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

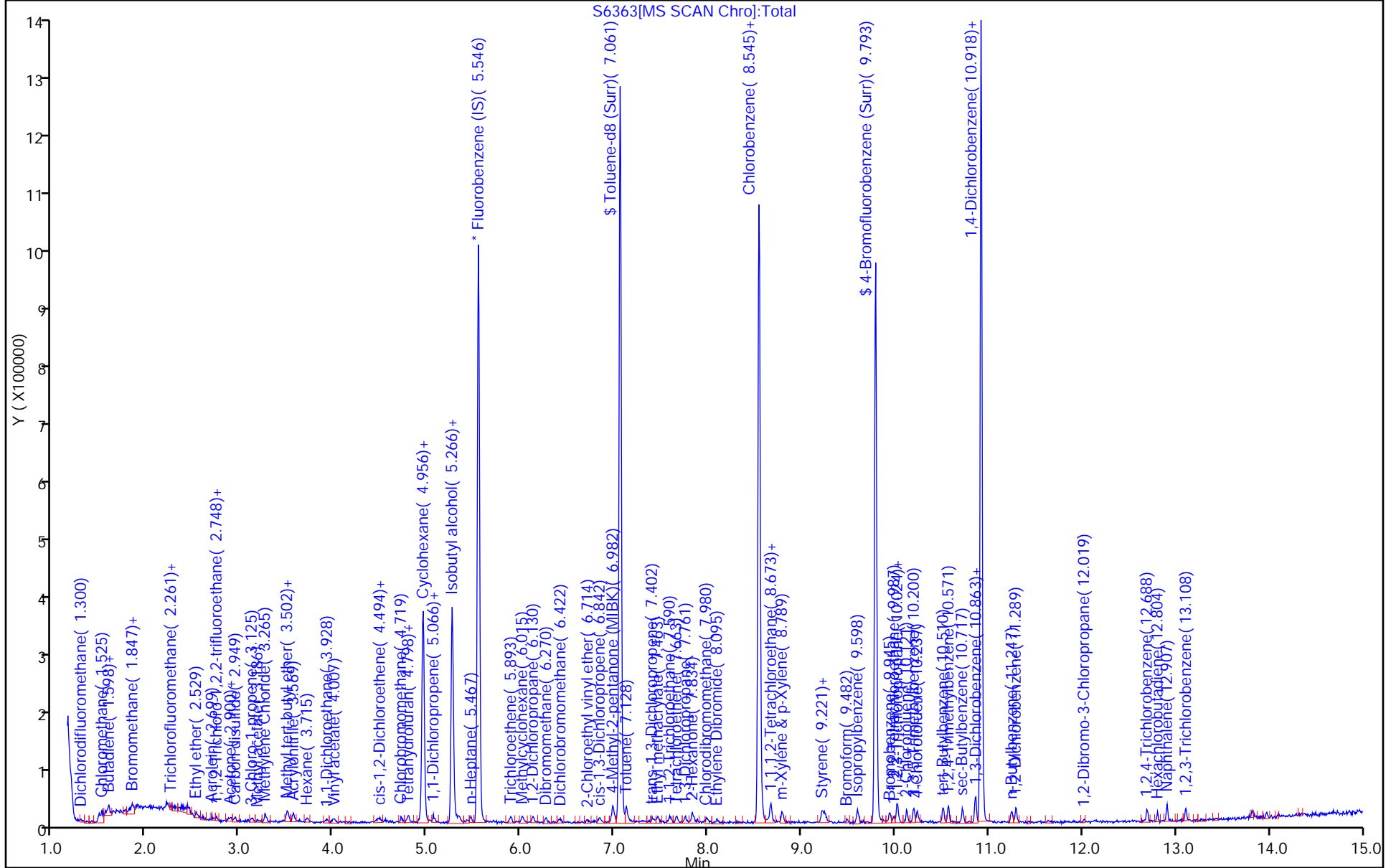
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

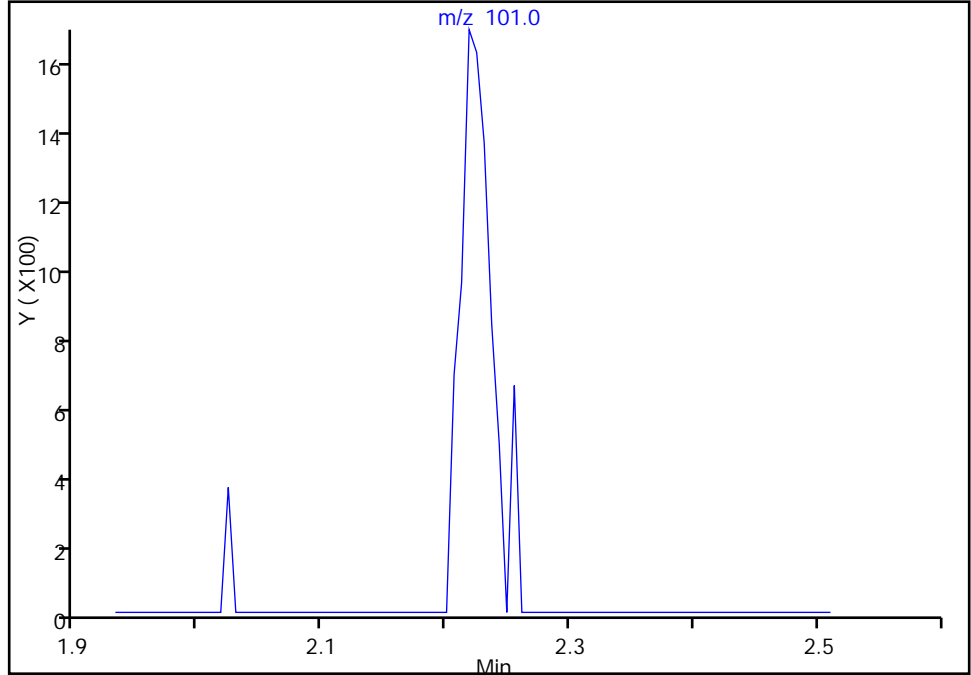
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

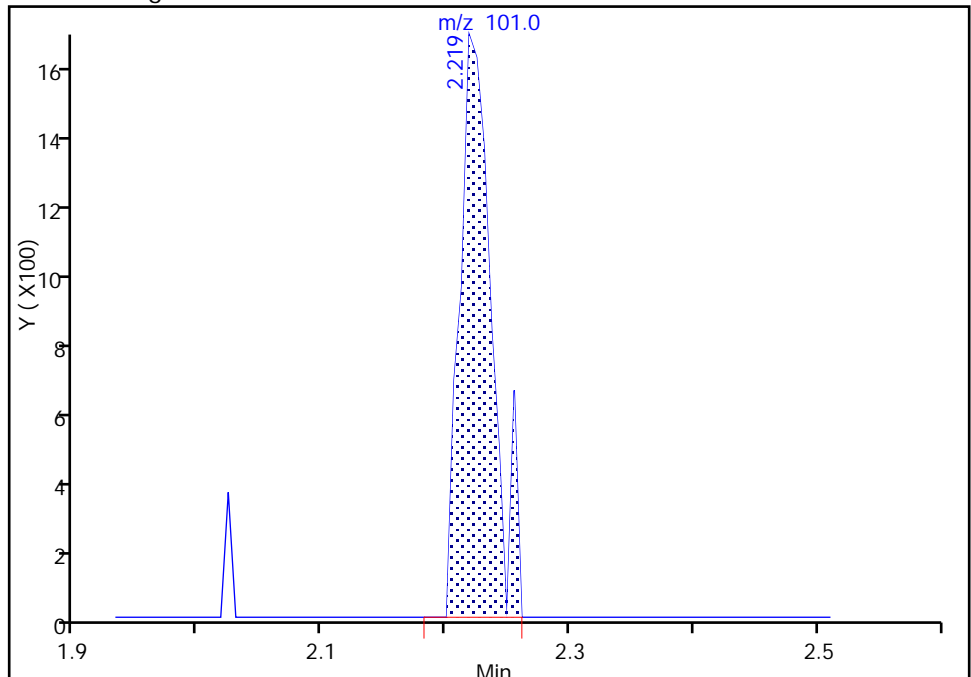
Not Detected
Expected RT: 2.22

Processing Integration Results



RT: 2.22
Area: 2934
Amount: 0.267177
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:10:45
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

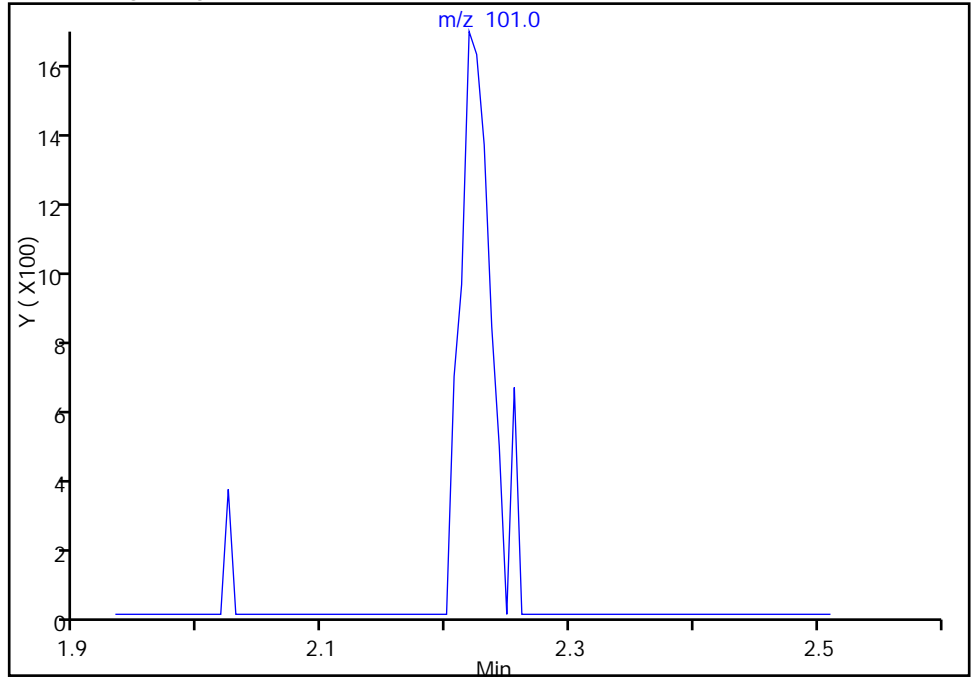
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

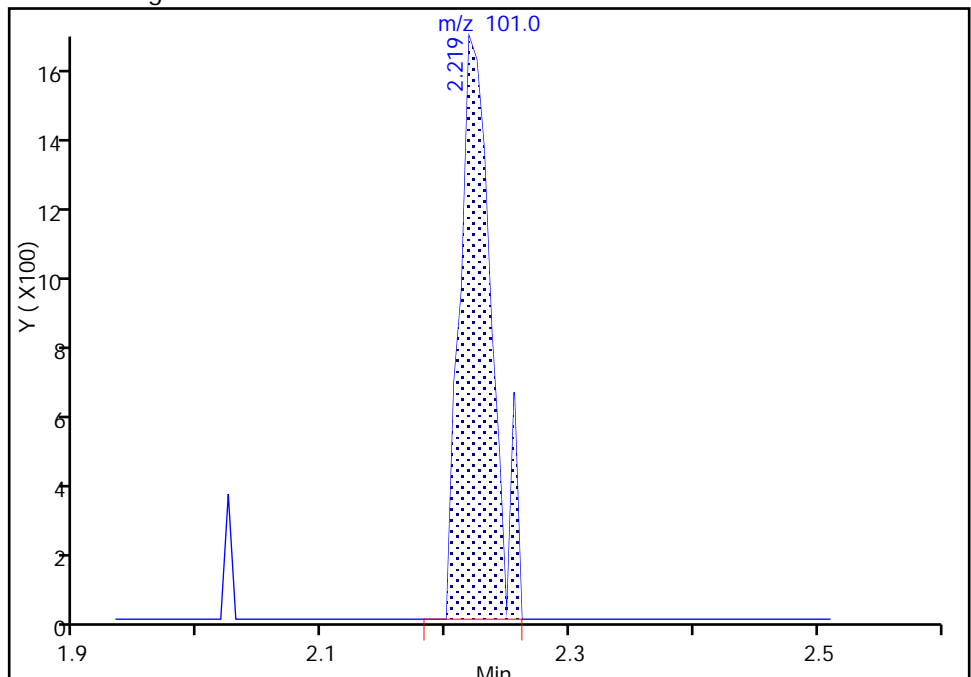
Not Detected
Expected RT: 2.22

Processing Integration Results



Manual Integration Results

RT: 2.22
Area: 2934
Amount: 0.267177
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:10:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

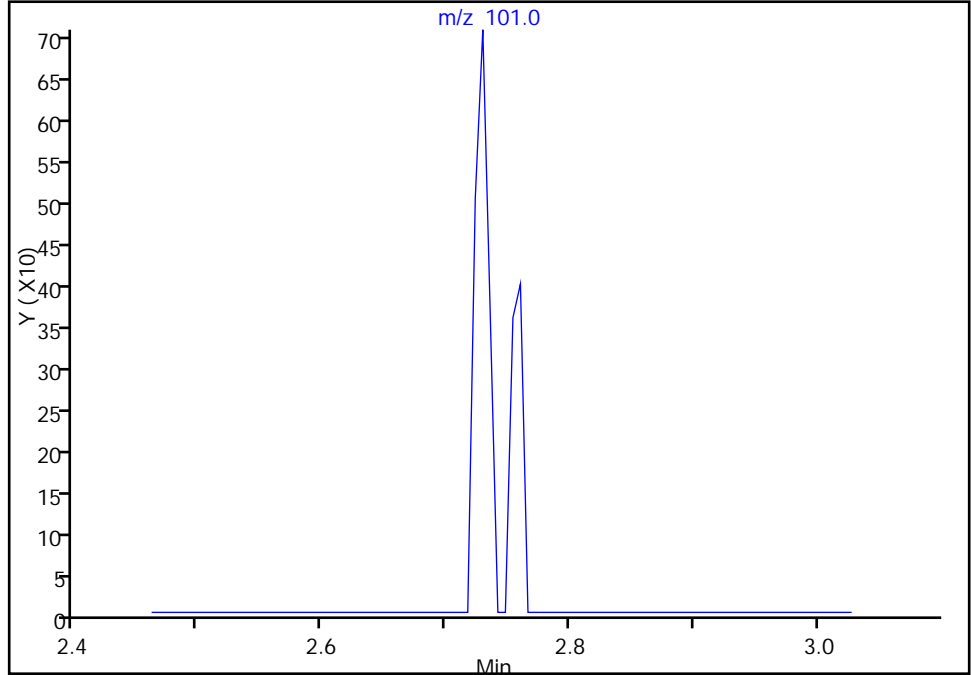
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

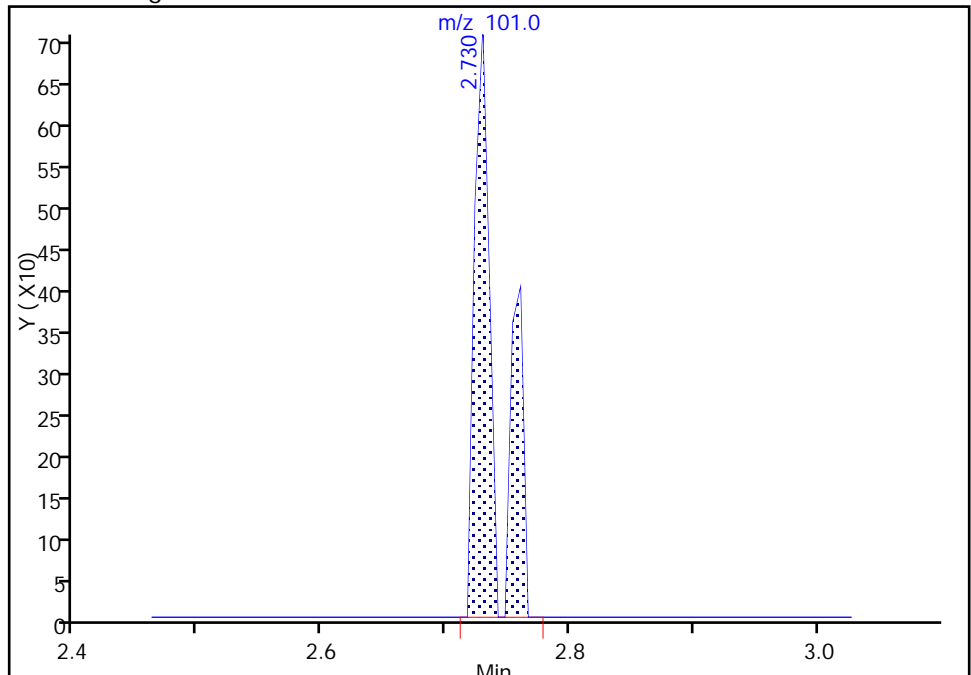
Signal: 1

Not Detected
Expected RT: 2.74

Processing Integration Results



Manual Integration Results



RT: 2.73
Area: 847
Amount: 0.133945
Amount Units: ug/L

TestAmerica Buffalo

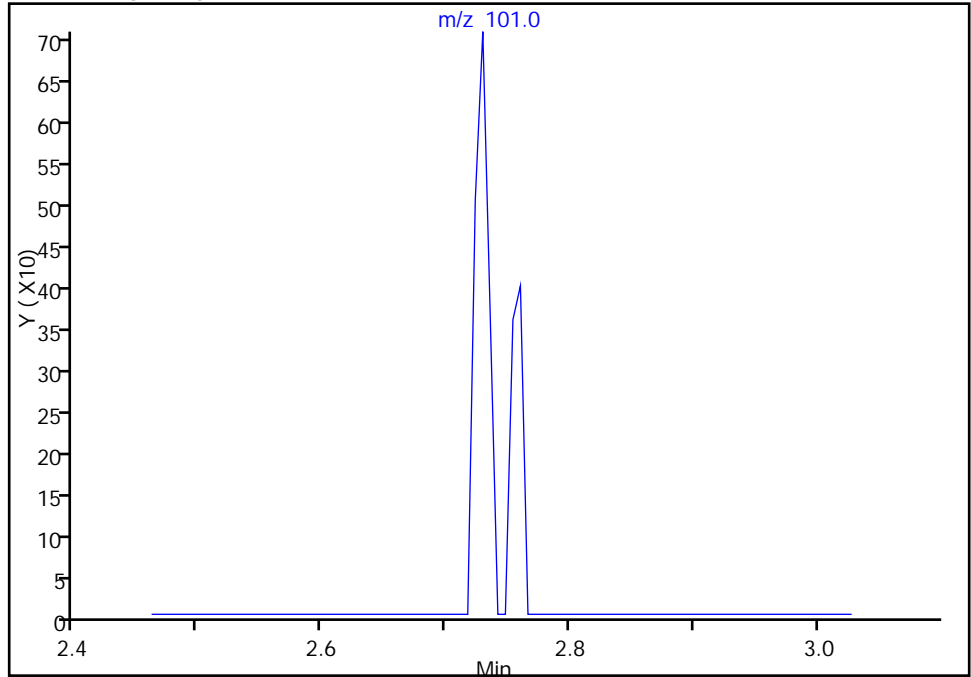
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

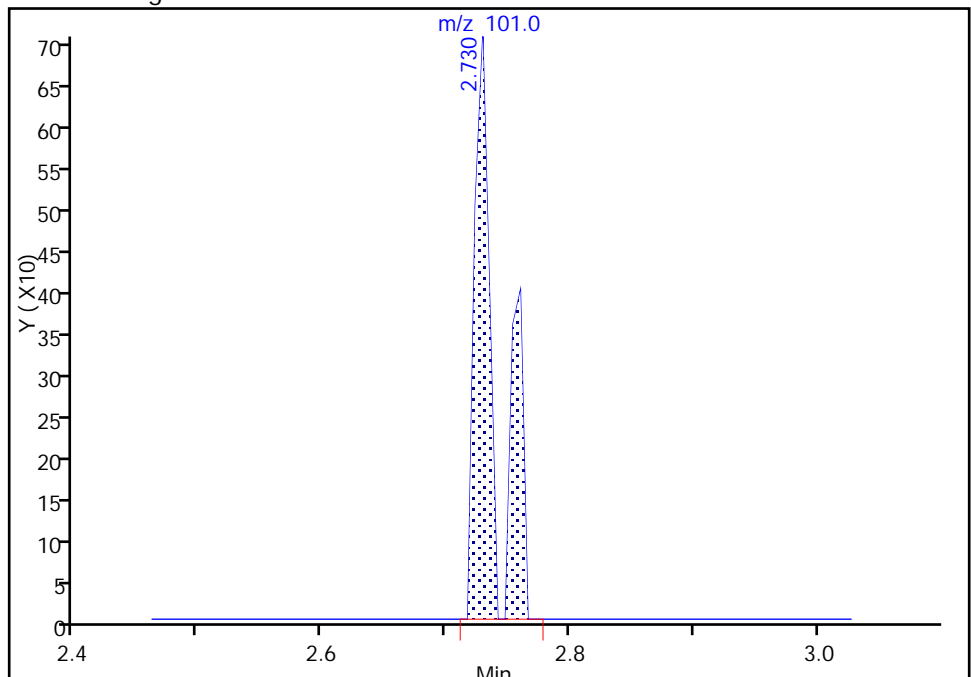
Not Detected
Expected RT: 2.74

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 847
Amount: 0.133945
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:11:04

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

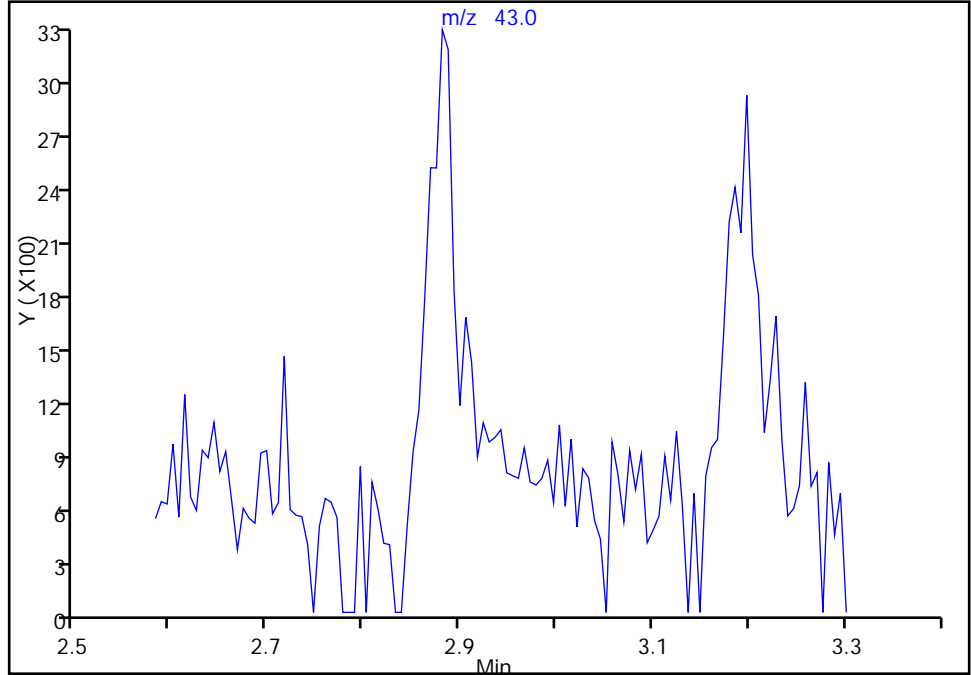
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

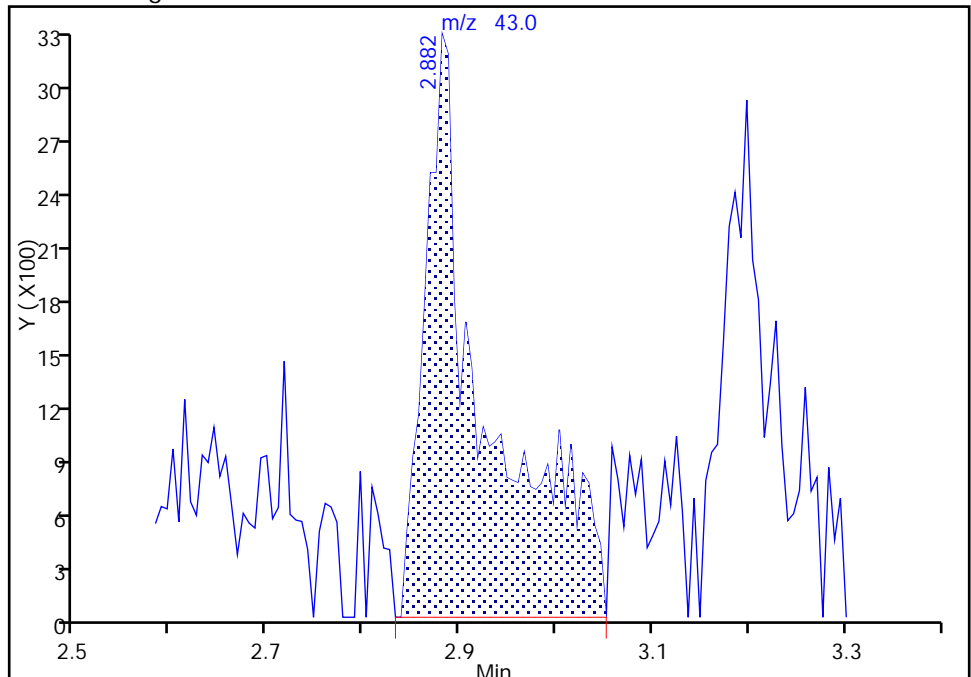
Not Detected
Expected RT: 2.88

Processing Integration Results



Manual Integration Results

RT: 2.88
Area: 14317
Amount: 4.698851
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:11:09
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

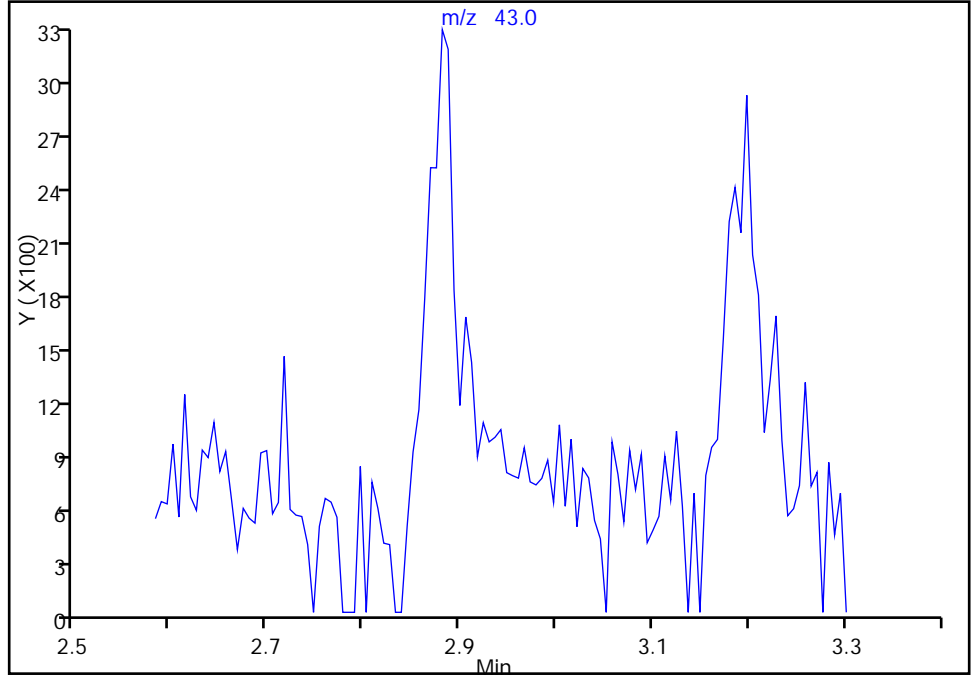
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

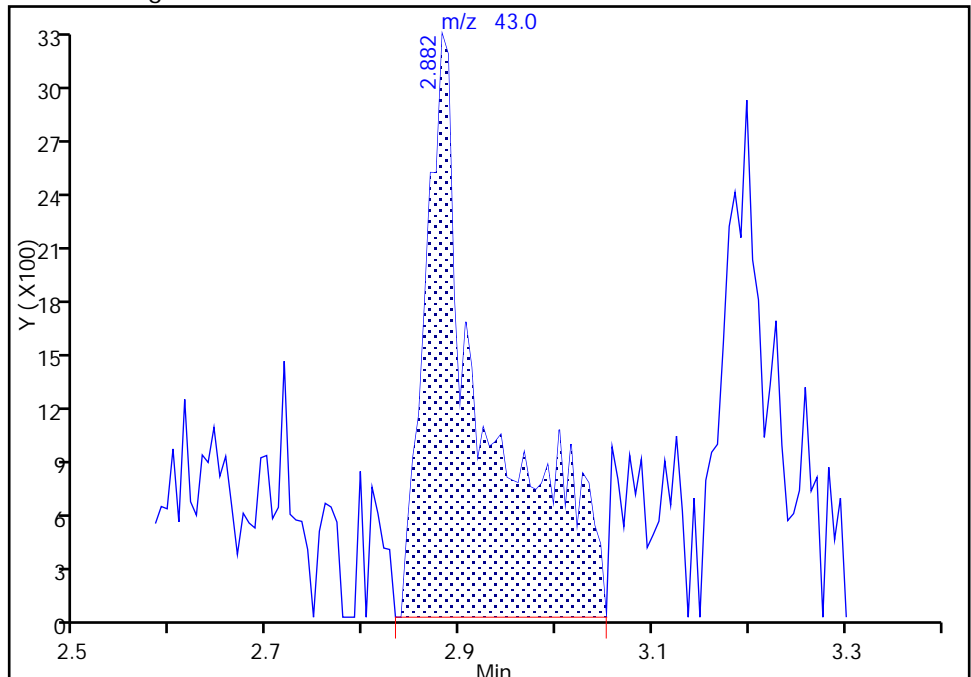
Signal: 1

Not Detected
Expected RT: 2.88

Processing Integration Results



Manual Integration Results



RT: 2.88
Area: 14317
Amount: 4.698851
Amount Units: ug/L

TestAmerica Buffalo

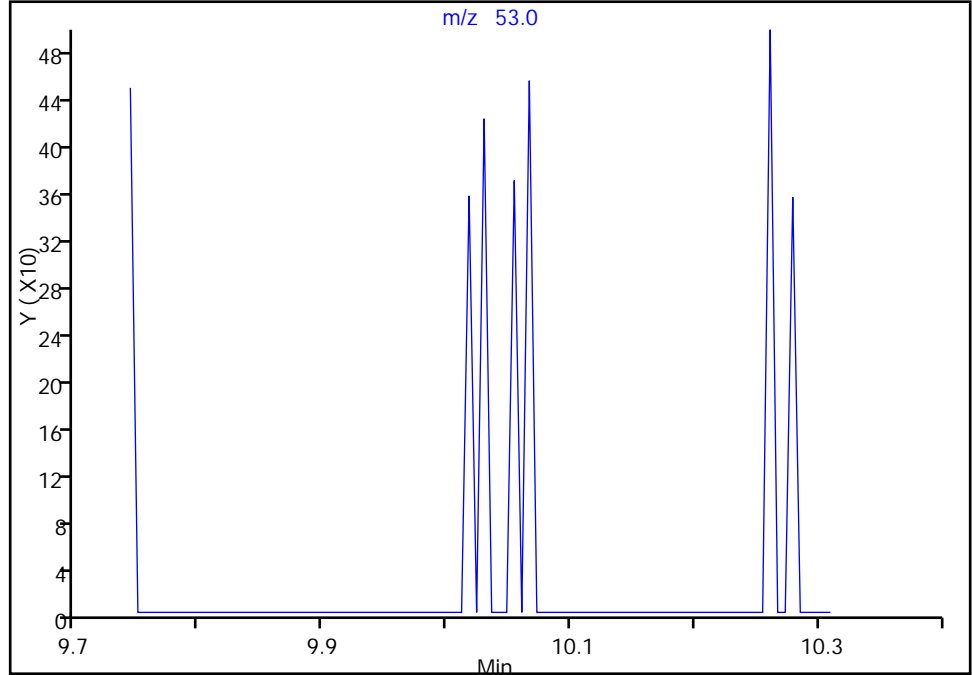
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

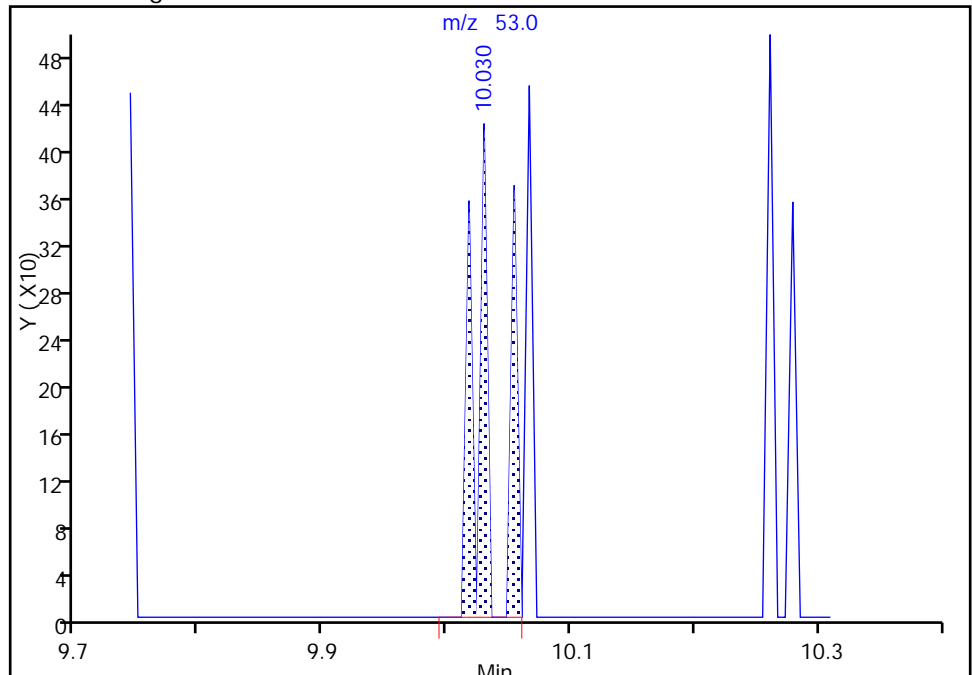
Not Detected
Expected RT: 10.04

Processing Integration Results



RT: 10.03
Area: 413
Amount: 0.201588
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:13:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

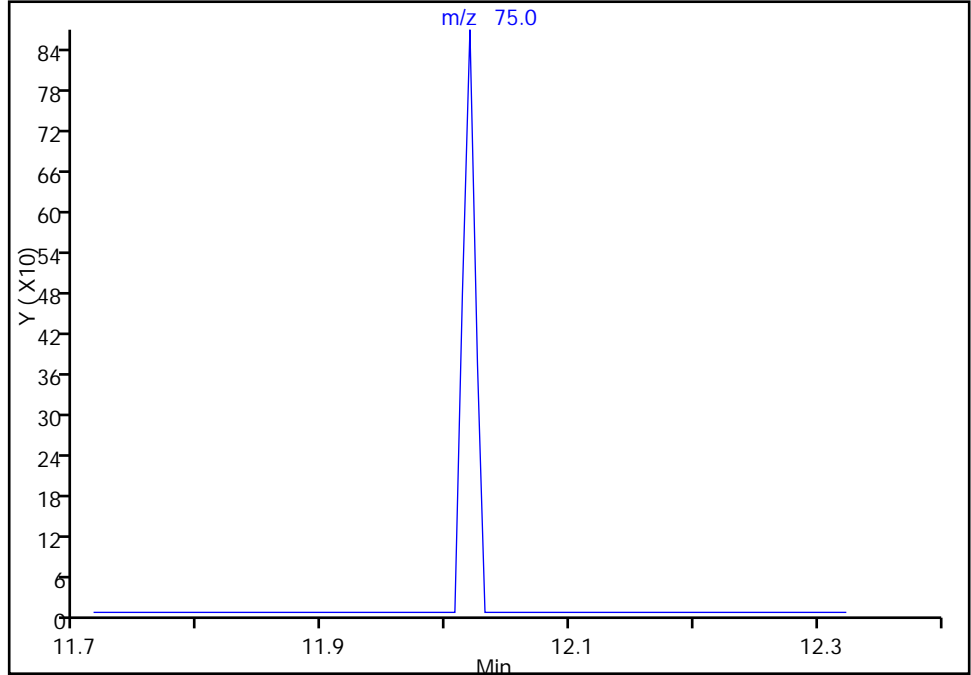
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

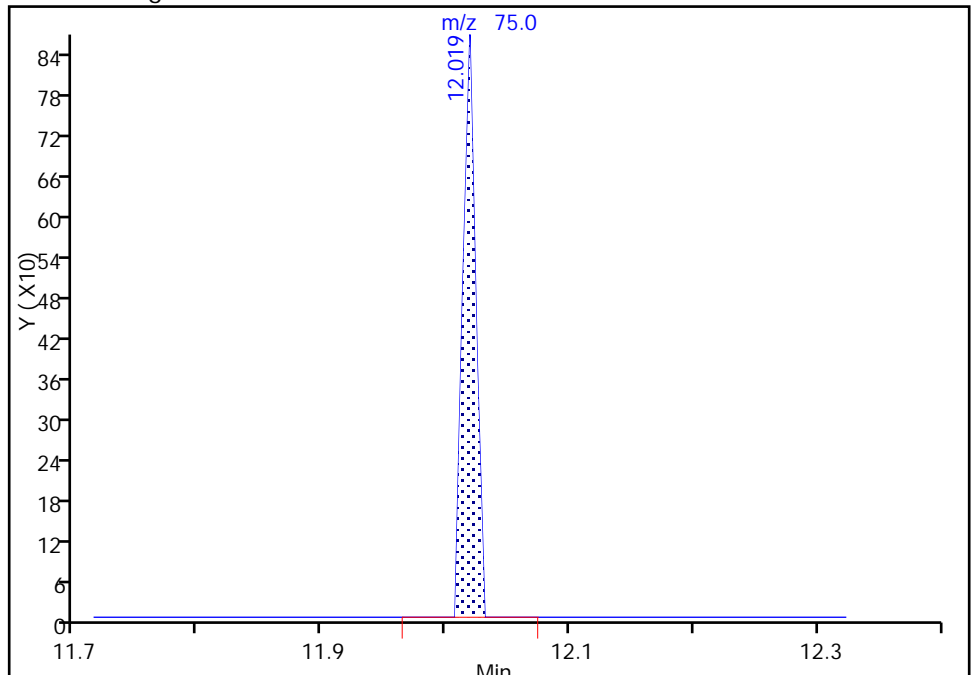
Not Detected
Expected RT: 12.01

Processing Integration Results



Manual Integration Results

RT: 12.02
Area: 626
Amount: 0.601330
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:13:24
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

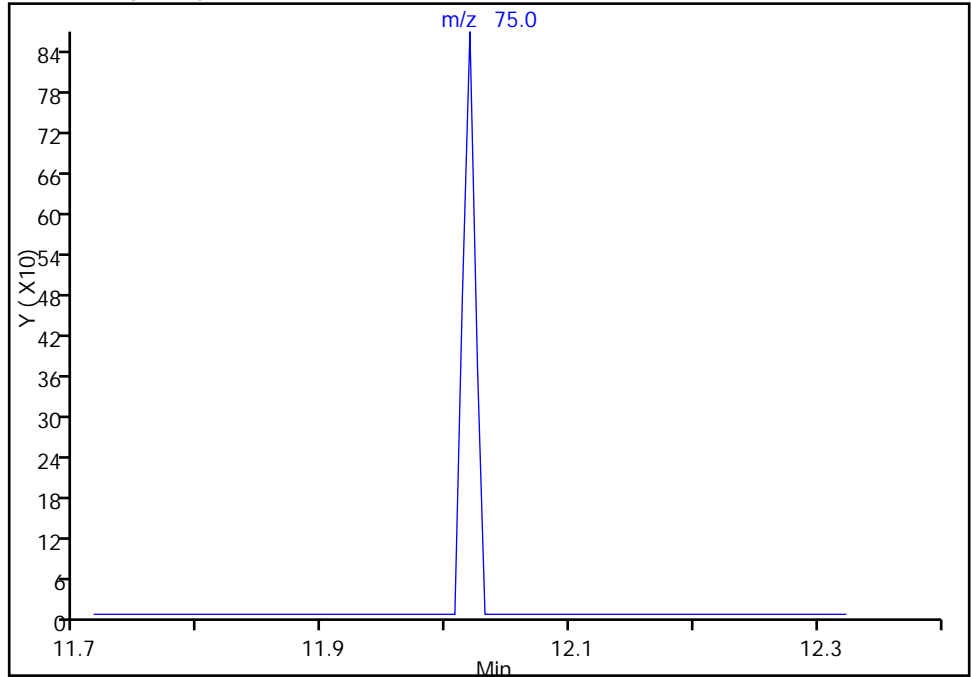
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

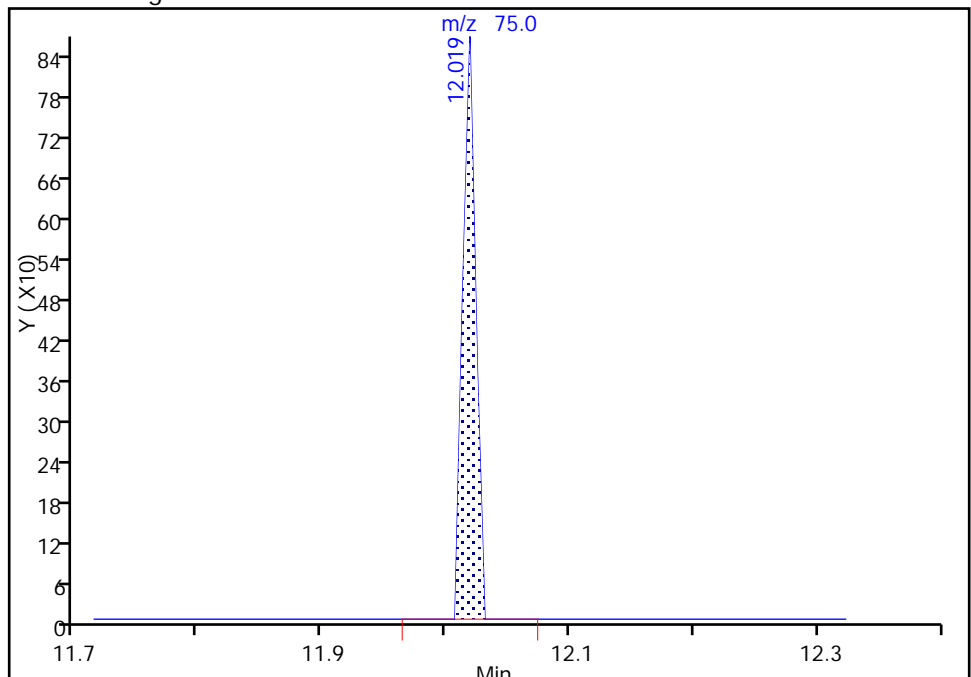
Not Detected
Expected RT: 12.01

Processing Integration Results



Manual Integration Results

RT: 12.02
Area: 626
Amount: 0.601330
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:13:29

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Jan-2018 01:05:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0068466-005
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:19 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:54:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	158862	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	84	332195	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	92	355717	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	72	195129	25.0	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	122372	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	833778	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.001	96	290513	25.0	25.2	
10 Dichlorodifluoromethane	85	1.294	1.300	-0.006	57	7658	1.00	0.9018	
12 Chloromethane	50	1.488	1.488	0.000	42	9444	1.00	1.08	
13 Vinyl chloride	62	1.568	1.574	-0.006	28	8976	1.00	0.9742	
151 Butadiene	54	1.598	1.598	0.000	86	9904	1.00	1.08	
14 Bromomethane	94	1.902	1.902	0.000	61	8602	1.00	1.24	
15 Chloroethane	64	1.987	1.993	-0.006	64	8706	1.00	0.9680	
16 Dichlorofluoromethane	67	2.212	2.212	0.000	72	17000	1.00	1.22	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	69	11434	1.00	1.04	
18 Ethyl ether	59	2.529	2.535	-0.006	78	6206	1.00	0.9466	
20 Acrolein	56	2.711	2.711	0.000	57	9961	5.00	6.40	
21 1,1,2-Trichloro-1,2,2-trif	101	2.742	2.736	0.006	21	4531	1.00	0.7139	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	53	5538	1.00	0.8317	
23 Acetone	43	2.876	2.875	0.001	86	15341	5.00	5.02	
25 Iodomethane	142	2.918	2.912	0.006	72	9696	1.00	0.7810	
26 Carbon disulfide	76	2.949	2.955	-0.006	79	18556	1.00	0.8196	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	70	11400	1.00	1.10	
27 Methyl acetate	43	3.192	3.180	0.012	91	16314	2.00	2.12	
30 Methylene Chloride	84	3.271	3.271	0.000	80	10056	1.00	1.15	
31 2-Methyl-2-propanol	59	3.453	3.441	0.012	64	7081	10.0	10.2	
32 Methyl tert-butyl ether	73	3.508	3.496	0.012	72	26145	1.00	1.01	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	51	6385	1.00	0.7875	
33 Acrylonitrile	53	3.563	3.557	0.006	95	29431	10.0	10.1	
35 Hexane	57	3.721	3.715	0.006	71	9670	1.00	0.8995	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.934	3.928	0.006	27	11143	1.00	0.8752	
37 Vinyl acetate	43	3.995	3.983	0.012	94	27343	2.00	1.87	
44 2,2-Dichloropropane	77	4.451	4.457	-0.006	49	10236	1.00	0.9686	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	20	8765	1.00	0.9451	
43 2-Butanone (MEK)	43	4.549	4.524	0.025	89	21306	5.00	5.56	
48 Chlorobromomethane	128	4.725	4.725	0.000	68	3630	1.00	0.7725	
49 Tetrahydrofuran	42	4.774	4.755	0.019	67	5428	2.00	2.17	M
50 Chloroform	83	4.804	4.798	0.006	64	13585	1.00	0.9796	
51 1,1,1-Trichloroethane	97	4.926	4.920	0.006	61	10747	1.00	0.8995	
52 Cyclohexane	56	4.944	4.938	0.006	4	9397	1.00	0.8481	
55 Carbon tetrachloride	117	5.060	5.059	0.001	65	9438	1.00	0.8736	
54 1,1-Dichloropropene	75	5.072	5.078	-0.006	61	9596	1.00	0.8975	
53 Isobutyl alcohol	43	5.297	5.278	0.019	36	11376	25.0	29.6	
57 Benzene	78	5.279	5.278	0.001	49	31783	1.00	0.9659	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	56	11084	1.00	1.03	
59 n-Heptane	43	5.461	5.467	-0.006	69	9919	1.00	0.9226	
62 Trichloroethene	95	5.893	5.893	0.000	73	7429	1.00	0.8576	
64 Methylcyclohexane	83	6.021	6.015	0.006	63	11034	1.00	0.7920	
65 1,2-Dichloropropane	63	6.130	6.124	0.006	61	7159	1.00	0.9553	
67 Dibromomethane	93	6.276	6.264	0.012	74	5361	1.00	1.01	
66 1,4-Dioxane	88	6.295	6.282	0.012	1	450	20.0	19.9	M
68 Dichlorobromomethane	83	6.422	6.416	0.006	37	9492	1.00	0.8972	
69 2-Chloroethyl vinyl ether	63	6.702	6.696	0.006	28	4748	1.00	0.9456	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	59	10283	1.00	0.8252	
73 4-Methyl-2-pentanone (MIBK)	43	6.982	6.976	0.006	87	39105	5.00	4.99	
74 Toluene	92	7.128	7.128	0.000	72	21022	1.00	0.9565	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	61	10359	1.00	0.8954	
75 Ethyl methacrylate	69	7.456	7.450	0.006	65	10605	1.00	0.9101	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	60	5800	1.00	0.9254	
81 Tetrachloroethene	166	7.663	7.663	0.000	87	8276	1.00	0.8174	
82 1,3-Dichloropropane	76	7.755	7.755	0.001	52	12295	1.00	0.9382	
80 2-Hexanone	43	7.828	7.815	0.013	87	29087	5.00	4.86	
83 Chlorodibromomethane	129	7.992	7.986	0.006	38	7039	1.00	0.8364	
84 Ethylene Dibromide	107	8.095	8.095	0.000	60	8097	1.00	1.00	
87 Chlorobenzene	112	8.576	8.576	0.000	90	23011	1.00	0.9320	
88 Ethylbenzene	91	8.673	8.667	0.006	35	38382	1.00	0.9490	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	28	7605	1.00	0.8802	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	15861	1.00	0.9475	
91 o-Xylene	106	9.221	9.221	0.000	83	13478	1.00	0.8600	
92 Styrene	104	9.251	9.245	0.006	84	22967	1.00	0.8533	
95 Bromoform	173	9.501	9.488	0.013	45	4575	1.00	0.8178	
94 Isopropylbenzene	105	9.604	9.598	0.006	79	38098	1.00	0.9277	
101 Bromobenzene	156	9.945	9.939	0.007	78	9974	1.00	0.8912	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.981	0.006	53	9200	1.00	0.8925	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	27	3674	1.00	1.00	
99 N-Propylbenzene	91	10.024	10.024	0.000	90	42578	1.00	0.9168	
98 trans-1,4-Dichloro-2-buten	53	10.048	10.036	0.012	1	1268	1.00	0.6183	
103 2-Chlorotoluene	126	10.127	10.127	0.000	82	9336	1.00	0.9211	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	81	32512	1.00	0.9370	
105 4-Chlorotoluene	126	10.237	10.237	0.000	67	8864	1.00	0.8559	
106 tert-Butylbenzene	134	10.517	10.510	0.006	70	7809	1.00	0.9408	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	60	33077	1.00	0.9321	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.723	-0.006	66	40141	1.00	0.9147	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	62	18730	1.00	0.8852	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	91	34549	1.00	0.8956	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	15	21112	1.00	0.9578	
115 n-Butylbenzene	91	11.240	11.246	-0.006	83	29892	1.00	0.8937	
116 1,2-Dichlorobenzene	146	11.295	11.289	0.006	72	18218	1.00	0.8967	
117 1,2-Dibromo-3-Chloropropan	75	12.007	12.013	-0.006	1	1225	1.00	0.8854	
119 1,2,4-Trichlorobenzene	180	12.694	12.688	0.006	56	14723	1.00	0.9469	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	54	6453	1.00	0.8655	
121 Naphthalene	128	12.907	12.901	0.006	88	36784	1.00	0.9404	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	69	13297	1.00	0.9018	
S 126 1,3-Dichloropropene, Total	1				0			1.72	
S 125 1,2-Dichloroethene, Total	1				0			1.73	
S 124 Xylenes, Total	1				0			1.81	
S 123 Total BTEX	1				0			4.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 1.00

Units: uL

GAS CORP mix_00259

Amount Added: 1.00

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D

Injection Date: 10-Jan-2018 01:05:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

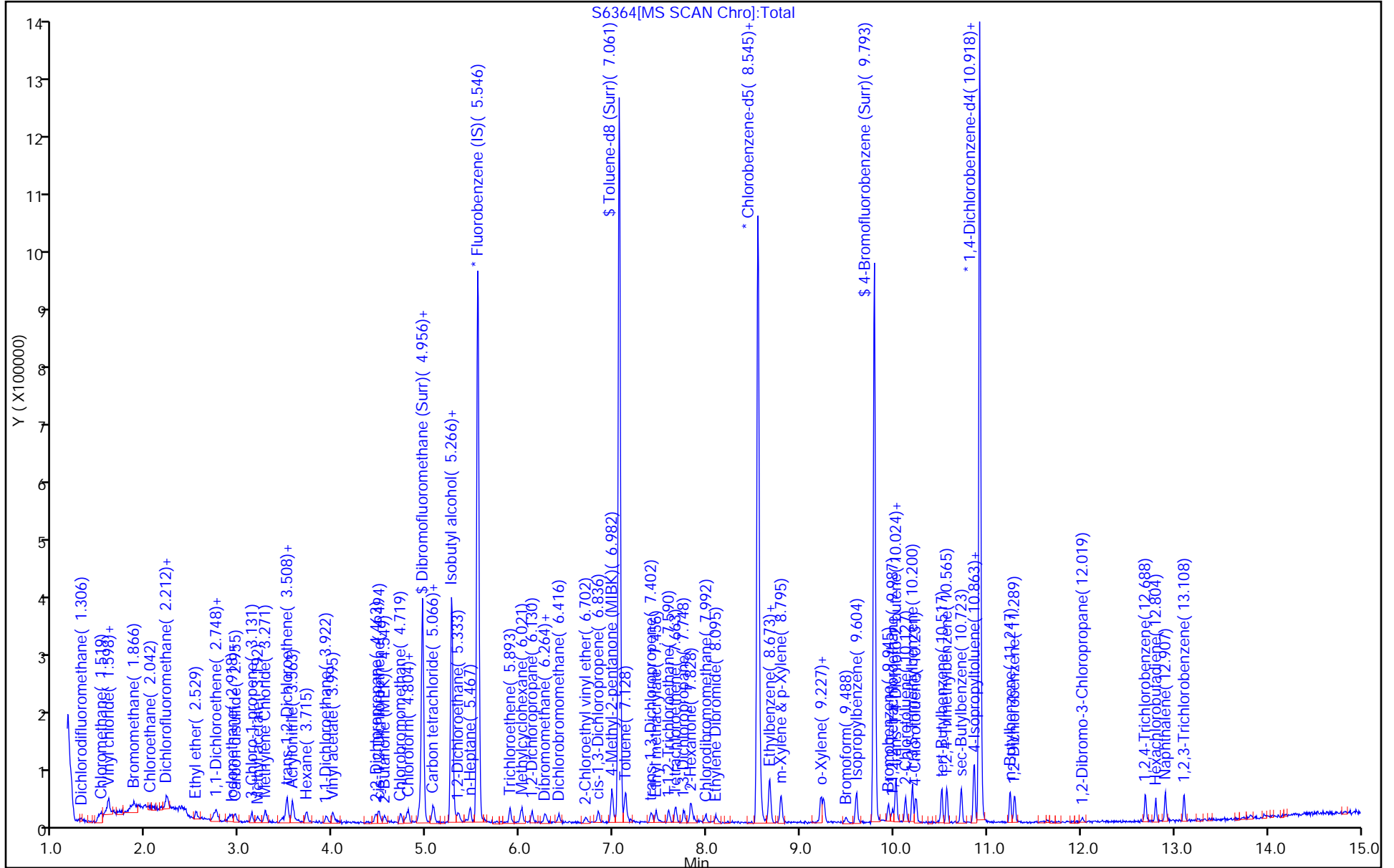
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

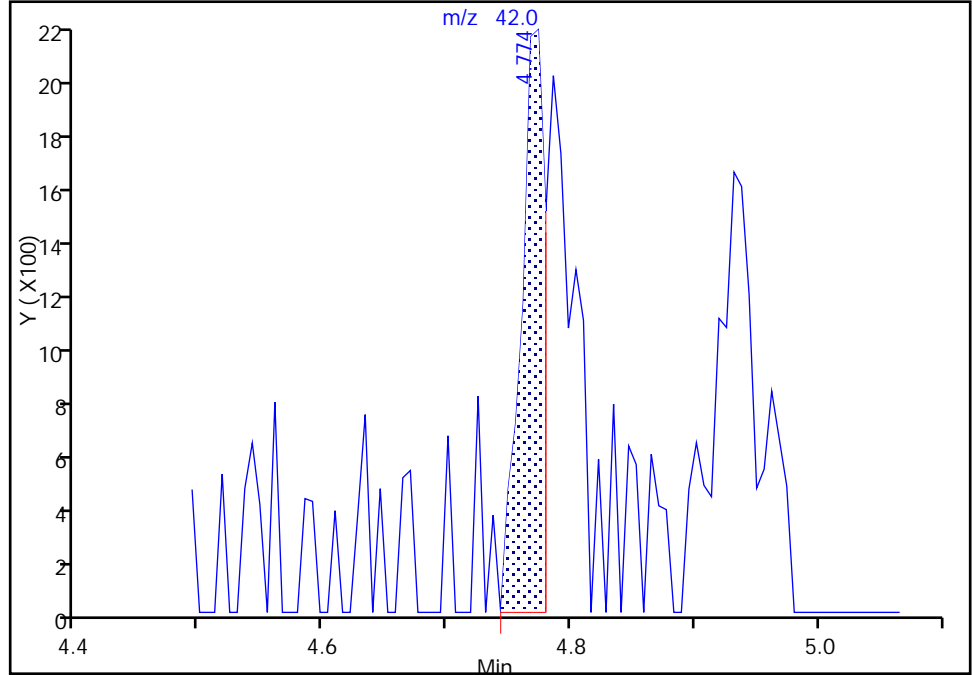
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
Injection Date: 10-Jan-2018 01:05:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: AS ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

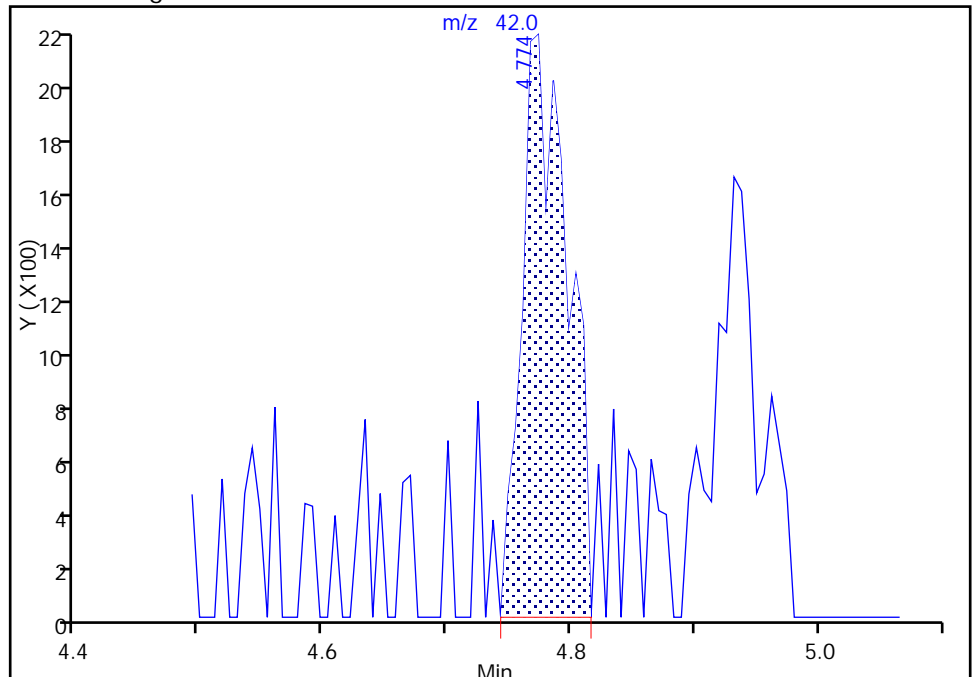
RT: 4.77
Area: 2892
Amount: 1.172337
Amount Units: ug/L

Processing Integration Results



RT: 4.77
Area: 5428
Amount: 2.169707
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:14:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

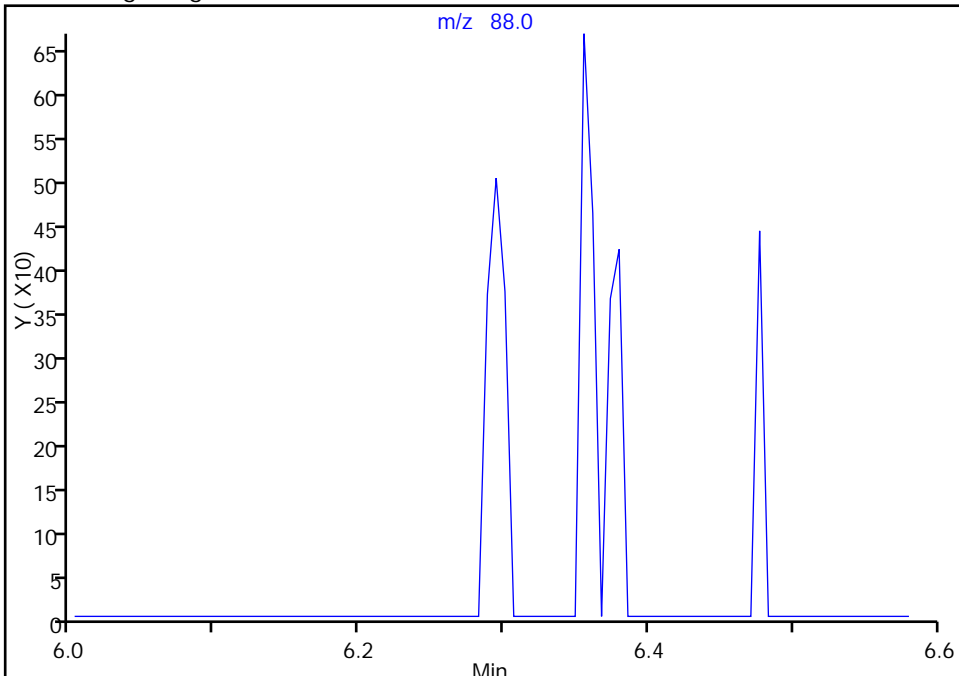
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
Injection Date: 10-Jan-2018 01:05:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: AS ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

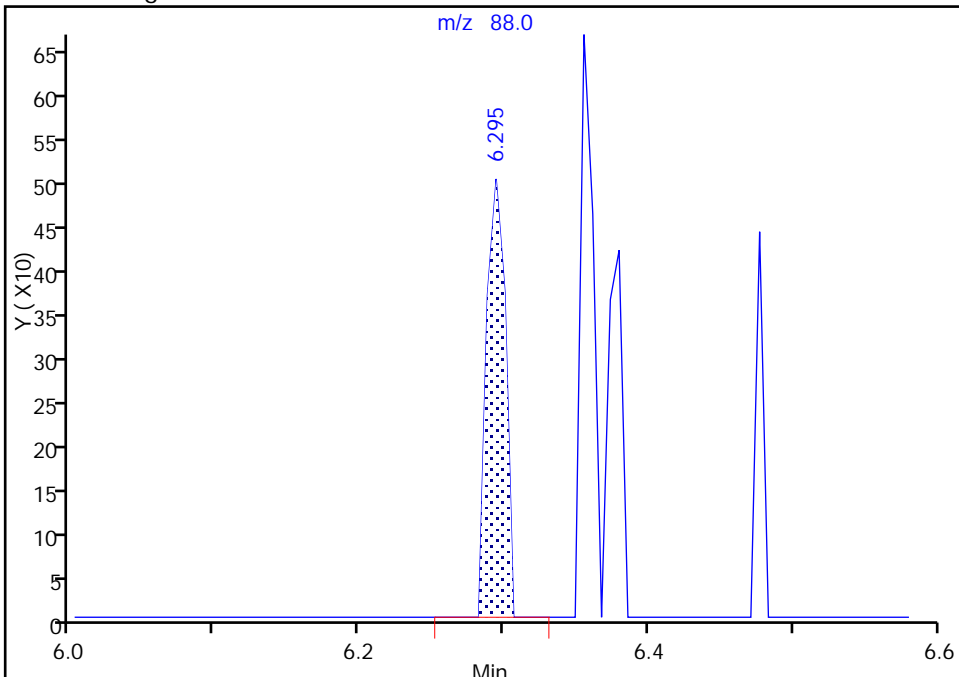
Not Detected
Expected RT: 6.28

Processing Integration Results



RT: 6.29
Area: 450
Amount: 19.891122
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:16:27
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

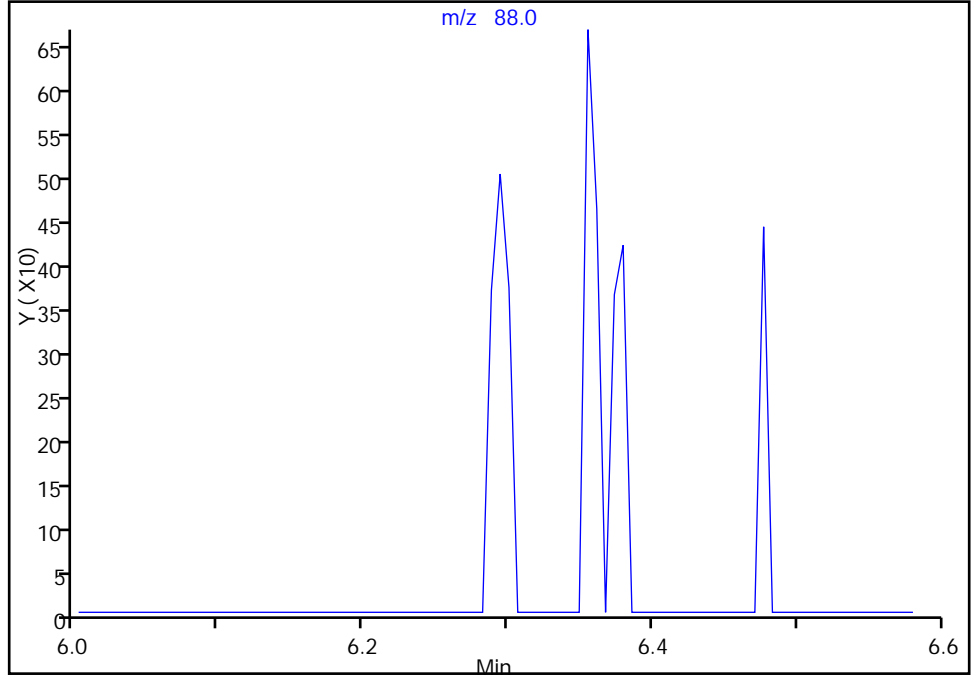
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
Injection Date: 10-Jan-2018 01:05:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: AS ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

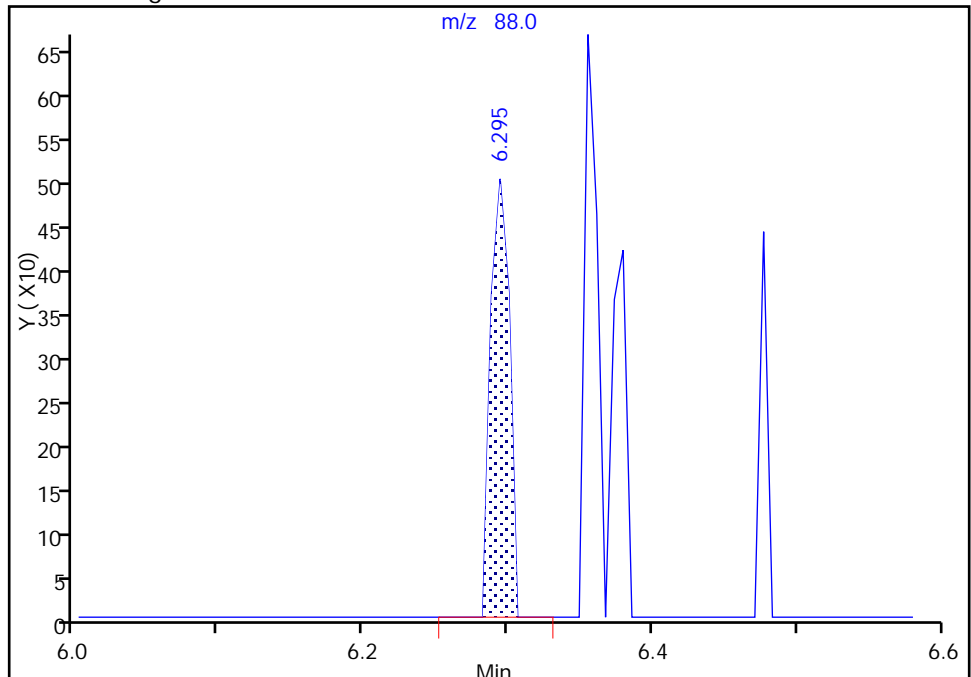
Not Detected
Expected RT: 6.28

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 450
Amount: 19.891122
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:16:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Jan-2018 01:28:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0068466-006
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:21 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr Date: 10-Jan-2018 08:58:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	153471	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	85	326350	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	90	343558	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	80	202738	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	124776	25.0	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	90	837535	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.001	93	290468	25.0	25.6	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	60	18451	2.00	2.25	
12 Chloromethane	50	1.488	1.488	0.000	68	19431	2.00	2.29	
13 Vinyl chloride	62	1.580	1.574	0.006	71	18730	2.00	2.10	
151 Butadiene	54	1.598	1.598	0.000	83	22964	2.00	2.60	
14 Bromomethane	94	1.920	1.902	0.018	70	14755	2.00	2.20	M
15 Chloroethane	64	1.993	1.993	0.000	55	12898	2.00	1.79	
16 Dichlorofluoromethane	67	2.212	2.212	0.000	84	30260	2.00	2.24	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	73	23623	2.00	2.22	
18 Ethyl ether	59	2.529	2.535	-0.006	77	12546	2.00	1.98	
20 Acrolein	56	2.717	2.711	0.006	76	16326	10.0	10.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.736	-0.006	68	10597	2.00	1.73	
22 1,1-Dichloroethene	96	2.748	2.754	-0.006	84	13340	2.00	2.07	
23 Acetone	43	2.876	2.875	0.001	91	36906	10.0	12.5	
25 Iodomethane	142	2.918	2.912	0.006	90	25765	2.00	2.15	
26 Carbon disulfide	76	2.955	2.955	0.000	95	43624	2.00	1.99	
28 3-Chloro-1-propene	41	3.125	3.131	-0.006	86	19487	2.00	1.95	
27 Methyl acetate	43	3.186	3.180	0.006	84	20949	4.00	3.11	
30 Methylene Chloride	84	3.277	3.271	0.006	69	19481	2.00	2.31	
31 2-Methyl-2-propanol	59	3.453	3.441	0.012	80	11174	20.0	16.6	
32 Methyl tert-butyl ether	73	3.508	3.496	0.012	78	50957	2.00	2.05	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	62	17151	2.00	2.19	
33 Acrylonitrile	53	3.563	3.557	0.006	100	57855	20.0	20.6	
35 Hexane	57	3.715	3.715	0.000	87	21556	2.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	65	24880	2.00	2.02	
37 Vinyl acetate	43	3.995	3.983	0.012	96	55647	4.00	3.94	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	76	20677	2.00	2.03	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	47	18591	2.00	2.08	
43 2-Butanone (MEK)	43	4.536	4.524	0.012	93	35621	10.0	9.63	
48 Chlorobromomethane	128	4.725	4.725	0.000	72	9590	2.00	2.11	
49 Tetrahydrofuran	42	4.761	4.755	0.006	70	9041	4.00	3.74	
50 Chloroform	83	4.798	4.798	0.000	87	27467	2.00	2.05	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	76	23614	2.00	2.05	
52 Cyclohexane	56	4.926	4.938	-0.012	75	22858	2.00	2.14	
55 Carbon tetrachloride	117	5.066	5.059	0.007	74	21567	2.00	2.07	
54 1,1-Dichloropropene	75	5.072	5.078	-0.006	82	19652	2.00	1.90	
57 Benzene	78	5.279	5.278	0.001	64	65258	2.00	2.05	
53 Isobutyl alcohol	43	5.291	5.278	0.013	34	13329	50.0	35.9	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	79	21666	2.00	2.08	
59 n-Heptane	43	5.467	5.467	0.000	85	21816	2.00	2.10	
62 Trichloroethene	95	5.893	5.893	0.000	84	18062	2.00	2.16	
64 Methylcyclohexane	83	6.015	6.015	0.000	78	26844	2.00	1.99	
65 1,2-Dichloropropane	63	6.130	6.124	0.006	79	15413	2.00	2.13	
67 Dibromomethane	93	6.270	6.264	0.006	76	10860	2.00	2.12	
66 1,4-Dioxane	88	6.288	6.282	0.006	1	2577	40.0	39.0	M
68 Dichlorobromomethane	83	6.410	6.416	-0.006	90	20101	2.00	1.97	
69 2-Chloroethyl vinyl ether	63	6.708	6.696	0.012	56	8928	2.00	1.84	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	73	23924	2.00	1.99	
73 4-Methyl-2-pentanone (MIBK)	43	6.982	6.976	0.006	94	77955	10.0	10.1	
74 Toluene	92	7.128	7.128	0.000	78	45551	2.00	2.11	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	79	20795	2.00	1.83	
75 Ethyl methacrylate	69	7.456	7.450	0.006	55	21604	2.00	1.89	
79 1,1,2-Trichloroethane	83	7.596	7.590	0.006	75	12557	2.00	2.04	
81 Tetrachloroethene	166	7.663	7.663	0.000	85	18639	2.00	1.87	
82 1,3-Dichloropropane	76	7.755	7.755	0.001	75	26969	2.00	2.09	
80 2-Hexanone	43	7.821	7.815	0.006	75	60371	10.0	10.3	
83 Chlorodibromomethane	129	7.986	7.986	0.000	60	16445	2.00	1.99	
84 Ethylene Dibromide	107	8.095	8.095	0.000	81	15317	2.00	1.93	
87 Chlorobenzene	112	8.576	8.576	0.000	96	49343	2.00	2.03	
88 Ethylbenzene	91	8.673	8.667	0.006	24	78455	2.00	1.97	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	29	17945	2.00	2.11	
90 m-Xylene & p-Xylene	106	8.795	8.789	0.006	0	32483	2.00	1.98	
91 o-Xylene	106	9.221	9.221	0.000	93	30635	2.00	1.99	
92 Styrene	104	9.251	9.245	0.006	88	54727	2.00	2.07	
95 Bromoform	173	9.488	9.488	0.000	77	10463	2.00	1.90	
94 Isopropylbenzene	105	9.598	9.598	0.000	91	79703	2.00	2.01	
101 Bromobenzene	156	9.939	9.939	0.001	83	21457	2.00	1.98	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.981	0.006	74	21962	2.00	2.21	
100 1,2,3-Trichloropropane	110	10.030	10.018	0.012	24	7536	2.00	2.12	
99 N-Propylbenzene	91	10.024	10.024	0.000	96	90130	2.00	2.01	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	25	3012	2.00	1.52	
103 2-Chlorotoluene	126	10.121	10.127	-0.006	95	20129	2.00	2.06	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	79	67594	2.00	2.02	
105 4-Chlorotoluene	126	10.243	10.237	0.006	56	20427	2.00	2.04	
106 tert-Butylbenzene	134	10.510	10.510	0.000	83	16414	2.00	2.05	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	77	71905	2.00	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	84	88170	2.00	2.08	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	69	43075	2.00	2.11	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	94	75358	2.00	2.02	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	34	45613	2.00	2.14	
115 n-Butylbenzene	91	11.247	11.246	0.001	95	69389	2.00	2.15	
116 1,2-Dichlorobenzene	146	11.289	11.289	0.000	90	40379	2.00	2.06	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	29	3287	2.00	1.92	
119 1,2,4-Trichlorobenzene	180	12.694	12.688	0.006	80	28497	2.00	1.90	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	78	15161	2.00	2.11	
121 Naphthalene	128	12.901	12.901	0.000	93	78594	2.00	2.08	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	84	28634	2.00	2.01	
S 124 Xylenes, Total	1				0			3.97	
S 123 Total BTEX	1				0			10.1	
S 126 1,3-Dichloropropene, Total	1				0			3.82	
S 125 1,2-Dichloroethene, Total	1				0			4.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 2.00

Units: uL

GAS CORP mix_00259

Amount Added: 2.00

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D

Injection Date: 10-Jan-2018 01:28:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

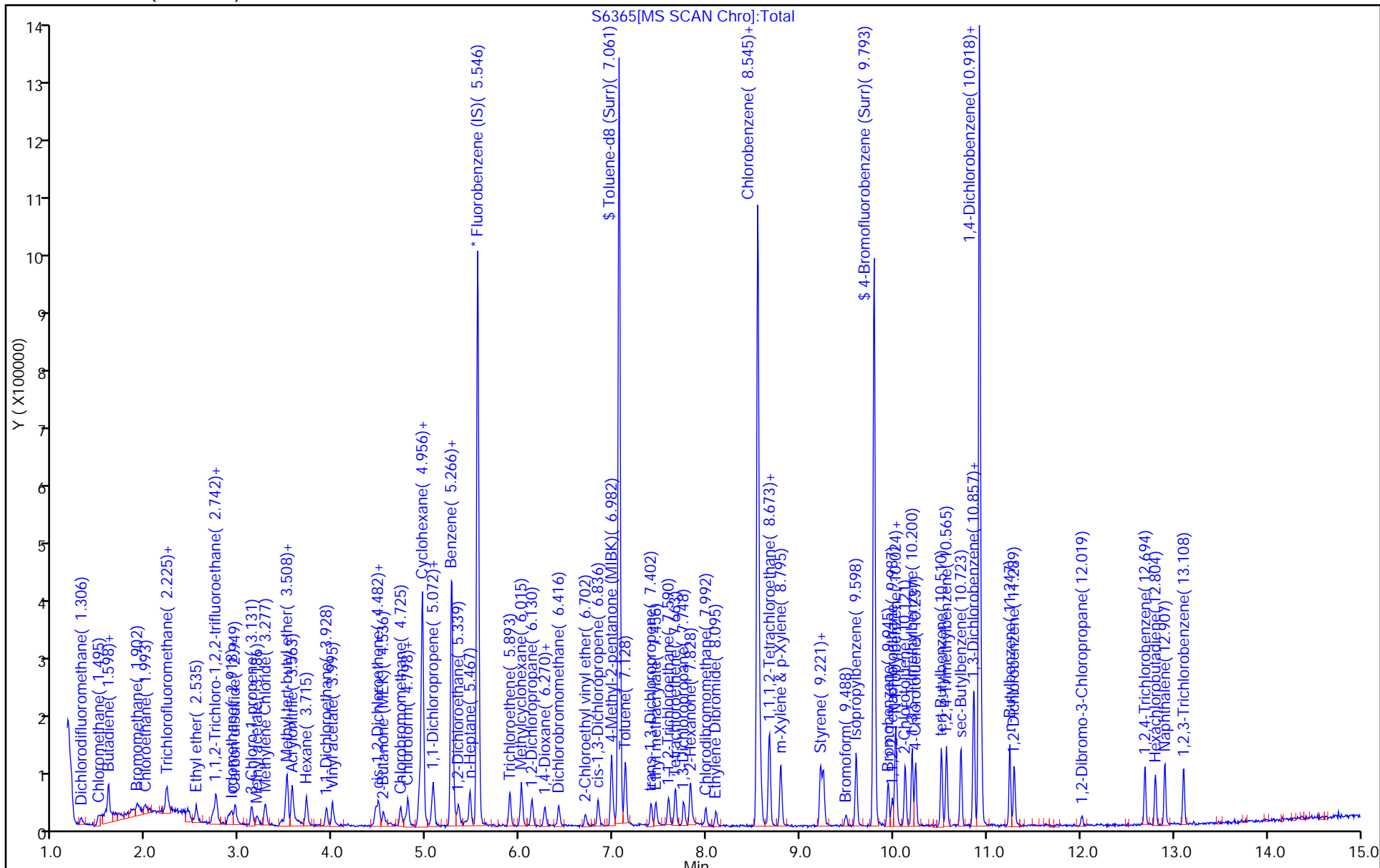
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

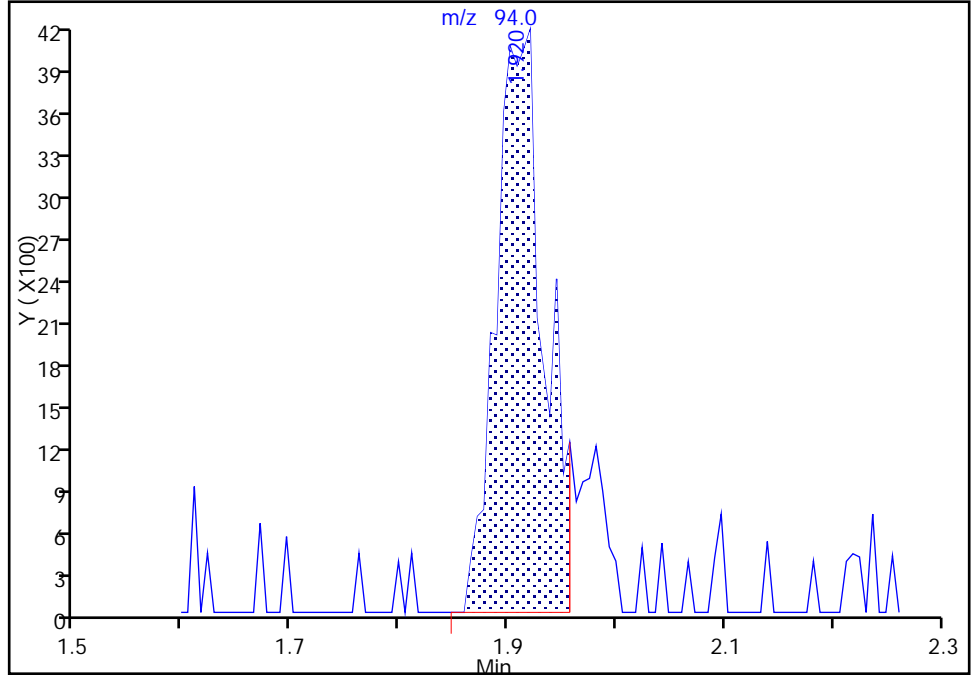
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
Injection Date: 10-Jan-2018 01:28:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: AS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

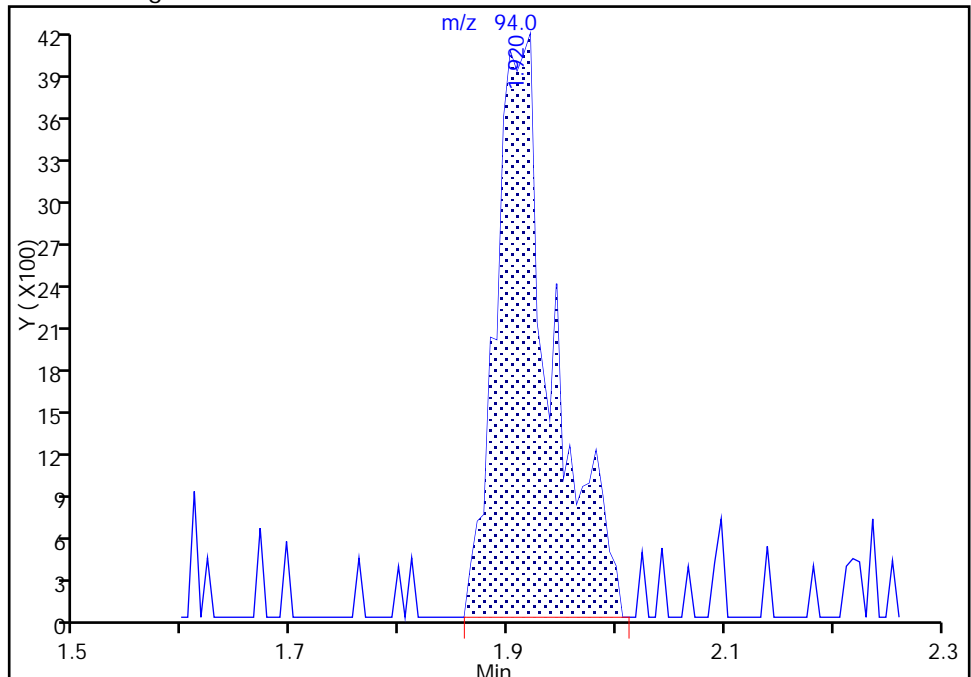
RT: 1.92
Area: 12741
Amount: 1.788938
Amount Units: ug/L

Processing Integration Results



RT: 1.92
Area: 14755
Amount: 2.204010
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:17:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

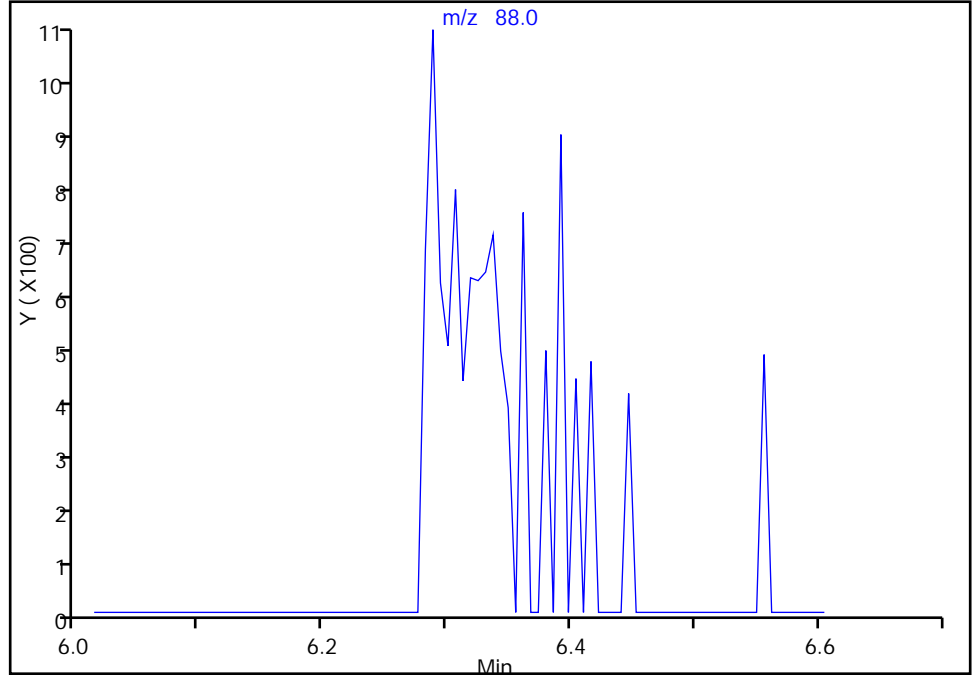
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
Injection Date: 10-Jan-2018 01:28:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: AS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

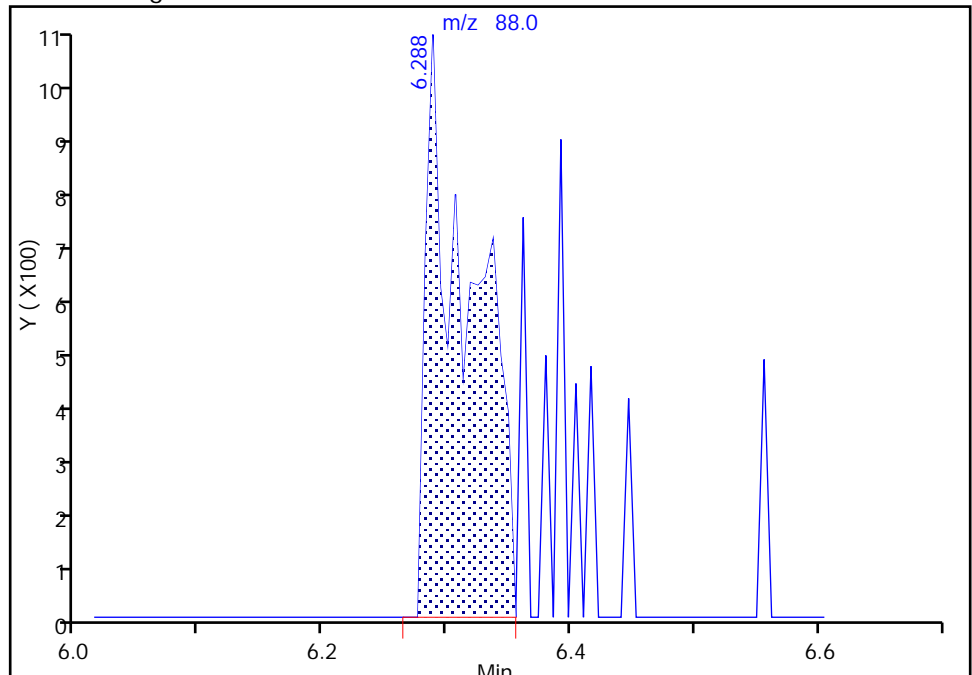
Not Detected
Expected RT: 6.28

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 2577
Amount: 39.048413
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:17:55
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

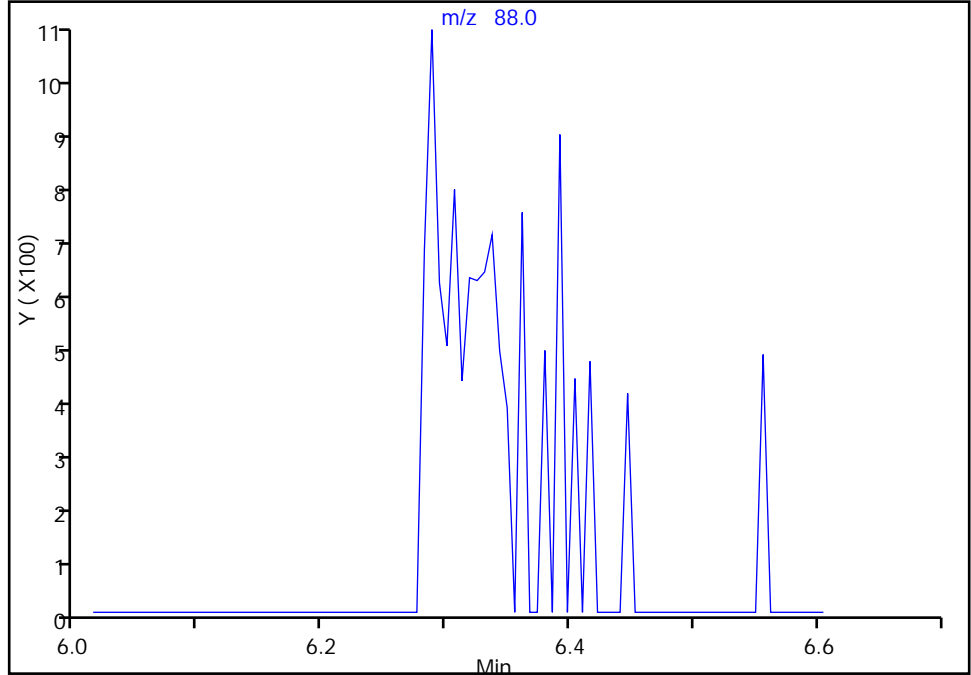
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
Injection Date: 10-Jan-2018 01:28:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: AS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

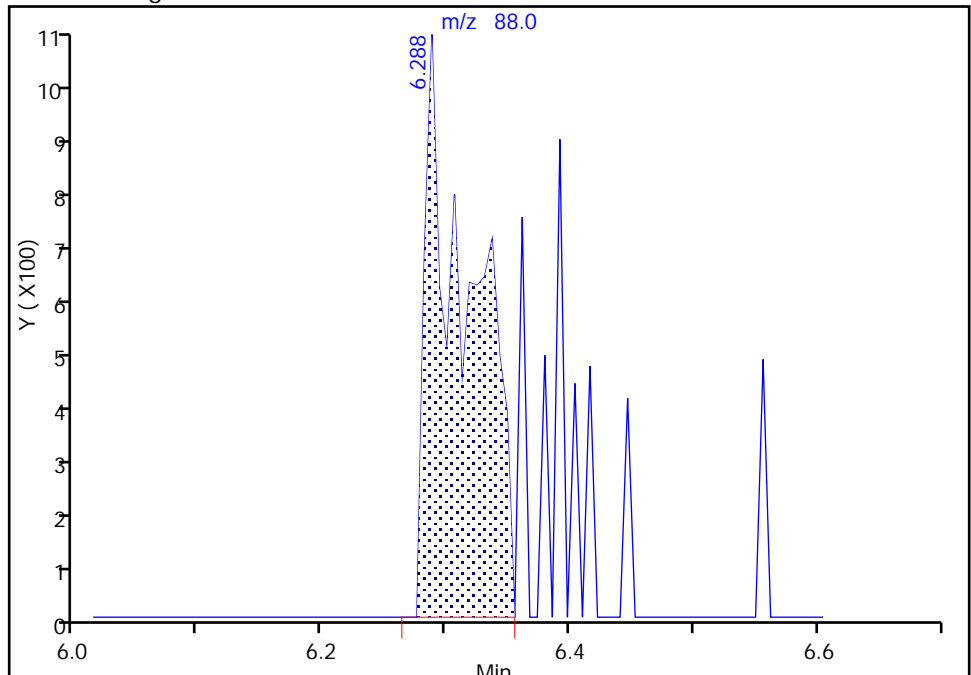
Not Detected
Expected RT: 6.28

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 2577
Amount: 39.048413
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:18:05

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6366.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 10-Jan-2018 01:51:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0068466-007
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:24 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:59:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	157963	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	84	336307	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	83	359539	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	81	199814	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.267	0.000	0	120931	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	836148	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	94	292156	25.0	25.0	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	72	33546	5.00	3.97	
12 Chloromethane	50	1.483	1.483	0.000	83	40071	5.00	4.60	
13 Vinyl chloride	62	1.574	1.574	0.000	86	41486	5.00	4.53	
151 Butadiene	54	1.592	1.592	0.000	86	41104	5.00	4.51	
14 Bromomethane	94	1.896	1.896	0.000	72	32045	5.00	4.65	
15 Chloroethane	64	1.987	1.987	0.000	90	31849	5.00	5.11	
16 Dichlorofluoromethane	67	2.213	2.213	0.000	94	58737	5.00	4.23	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	96	46911	5.00	4.28	
18 Ethyl ether	59	2.535	2.535	0.000	77	33148	5.00	5.09	
20 Acrolein	56	2.711	2.711	0.000	91	38427	25.0	24.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.742	2.742	0.000	62	34011	5.00	5.39	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	86	34427	5.00	5.20	
23 Acetone	43	2.876	2.876	0.000	97	69875	25.0	23.0	
25 Iodomethane	142	2.912	2.912	0.000	97	61465	5.00	4.98	
26 Carbon disulfide	76	2.949	2.949	0.000	98	119601	5.00	5.31	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	84	48690	5.00	4.74	
27 Methyl acetate	43	3.180	3.180	0.000	92	57958	10.0	9.86	
30 Methylene Chloride	84	3.271	3.271	0.000	83	41379	5.00	4.76	
31 2-Methyl-2-propanol	59	3.448	3.448	0.000	95	31150	50.0	44.9	
32 Methyl tert-butyl ether	73	3.502	3.502	0.000	86	128388	5.00	5.01	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	71	42047	5.00	5.22	
33 Acrylonitrile	53	3.557	3.557	0.000	100	147836	50.0	51.3	
35 Hexane	57	3.715	3.715	0.000	87	58901	5.00	5.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	78	64430	5.00	5.09	
37 Vinyl acetate	43	3.989	3.989	0.000	97	140026	10.0	9.63	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	79	53361	5.00	5.08	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	73	45974	5.00	4.99	
43 2-Butanone (MEK)	43	4.537	4.537	0.000	98	93098	25.0	24.5	
48 Chlorobromomethane	128	4.725	4.725	0.000	79	24606	5.00	5.27	
49 Tetrahydrofuran	42	4.768	4.768	0.000	83	26747	10.0	10.8	
50 Chloroform	83	4.804	4.804	0.000	76	68854	5.00	4.99	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	90	62315	5.00	5.25	
52 Cyclohexane	56	4.938	4.938	0.000	75	52122	5.00	4.73	
55 Carbon tetrachloride	117	5.066	5.066	0.000	87	53197	5.00	4.95	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	94	55667	5.00	5.24	
53 Isobutyl alcohol	43	5.285	5.285	0.000	45	42758	125.0	111.8	
57 Benzene	78	5.279	5.279	0.000	92	165723	5.00	5.06	
58 1,2-Dichloroethane	62	5.340	5.340	0.000	72	52042	5.00	4.86	
59 n-Heptane	43	5.467	5.467	0.000	86	53284	5.00	4.98	
62 Trichloroethene	95	5.887	5.887	0.000	90	43135	5.00	5.01	
64 Methylcyclohexane	83	6.021	6.021	0.000	83	72006	5.00	5.20	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	92	36403	5.00	4.89	
67 Dibromomethane	93	6.258	6.258	0.000	89	27015	5.00	5.12	
66 1,4-Dioxane	88	6.289	6.289	0.000	66	9431	100.0	98.0	
68 Dichlorobromomethane	83	6.416	6.416	0.000	90	52921	5.00	5.03	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	87	24473	5.00	4.90	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	84	60013	5.00	4.84	
73 4-Methyl-2-pentanone (MIBK)	43	6.982	6.982	0.000	94	193133	25.0	24.3	
74 Toluene	92	7.128	7.128	0.000	84	108887	5.00	4.89	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	82	56578	5.00	4.83	
75 Ethyl methacrylate	69	7.451	7.451	0.000	77	56185	5.00	4.76	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	88	31518	5.00	4.97	
81 Tetrachloroethene	166	7.663	7.663	0.000	82	52276	5.00	5.10	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	87	67623	5.00	5.10	
80 2-Hexanone	43	7.822	7.822	0.000	94	156268	25.0	25.8	
83 Chlorodibromomethane	129	7.986	7.986	0.000	80	40719	5.00	4.78	
84 Ethylene Dibromide	107	8.095	8.095	0.000	93	39527	5.00	4.82	
87 Chlorobenzene	112	8.576	8.576	0.000	94	126344	5.00	5.05	
88 Ethylbenzene	91	8.673	8.673	0.000	46	207445	5.00	5.07	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	37	44131	5.00	5.05	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	84142	5.00	4.96	
91 o-Xylene	106	9.221	9.221	0.000	95	80633	5.00	5.08	
92 Styrene	104	9.245	9.245	0.000	94	131925	5.00	4.84	
95 Bromoform	173	9.489	9.489	0.000	90	27124	5.00	4.79	
94 Isopropylbenzene	105	9.598	9.598	0.000	94	214012	5.00	5.16	
101 Bromobenzene	156	9.945	9.945	0.000	83	58292	5.00	5.15	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	77	51269	5.00	4.92	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	36	19301	5.00	5.19	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	238344	5.00	5.08	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	32	8562	5.00	4.13	
103 2-Chlorotoluene	126	10.121	10.121	0.000	96	50665	5.00	4.95	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	94	176244	5.00	5.03	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	53452	5.00	5.11	
106 tert-Butylbenzene	134	10.511	10.511	0.000	88	41762	5.00	4.98	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	72	183445	5.00	5.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	92	226916	5.00	5.12	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	72	108628	5.00	5.08	
110 4-Isopropyltoluene	119	10.857	10.857	0.000	95	208986	5.00	5.36	
113 1,4-Dichlorobenzene	146	10.943	10.943	0.000	91	113102	5.00	5.08	
115 n-Butylbenzene	91	11.247	11.247	0.000	93	165924	5.00	4.91	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	93	103843	5.00	5.06	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	78	9946	5.00	4.98	
119 1,2,4-Trichlorobenzene	180	12.695	12.695	0.000	89	82771	5.00	5.27	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	90	40129	5.00	5.32	
121 Naphthalene	128	12.907	12.907	0.000	95	199091	5.00	5.04	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	95	77754	5.00	5.22	
S 126 1,3-Dichloropropene, Total	1				0			9.67	
S 125 1,2-Dichloroethene, Total	1				0			10.2	
S 124 Xylenes, Total	1				0			10.0	
S 123 Total BTEX	1				0			25.1	

Reagents:

8260 CORP mix_00118	Amount Added: 5.00	Units: uL	
GAS CORP mix_00259	Amount Added: 5.00	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6366.D

Injection Date: 10-Jan-2018 01:51:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

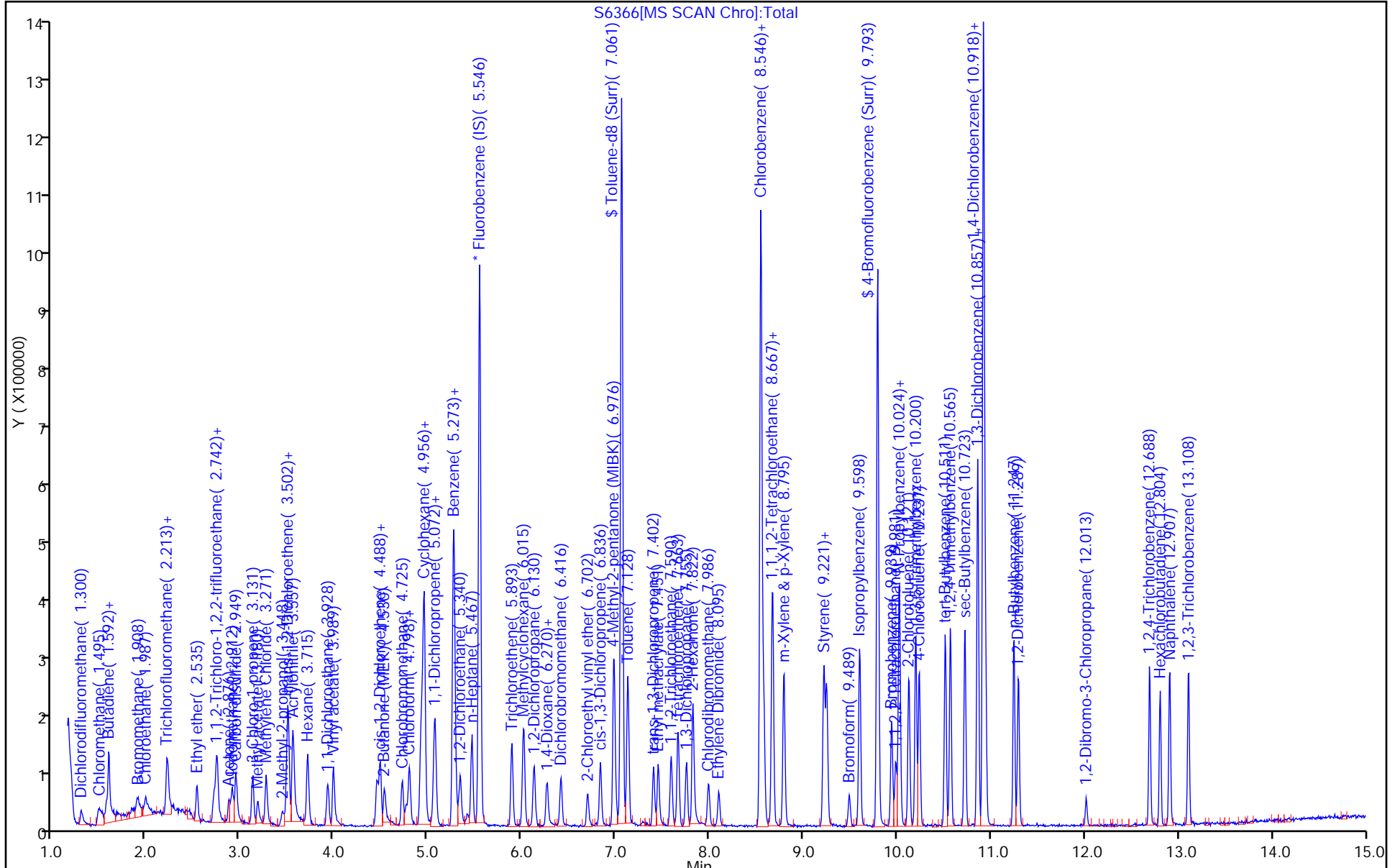
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6367.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 10-Jan-2018 02:15:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0068466-008
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:26 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 09:20:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	159539	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	82	338465	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	72	364648	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	80	203912	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.267	0.000	0	123345	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	840056	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	96	290230	25.0	24.7	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	85	92111	10.0	10.8	
12 Chloromethane	50	1.495	1.483	0.012	88	88708	10.0	10.1	
13 Vinyl chloride	62	1.574	1.574	0.000	94	93789	10.0	10.1	
151 Butadiene	54	1.592	1.592	0.000	91	91508	10.0	9.95	
14 Bromomethane	94	1.902	1.896	0.006	80	71215	10.0	10.2	
15 Chloroethane	64	1.981	1.987	-0.006	97	63651	10.0	10.7	
16 Dichlorofluoromethane	67	2.213	2.213	0.000	96	130164	10.0	9.28	
17 Trichlorofluoromethane	101	2.219	2.225	-0.006	84	113070	10.0	10.2	
18 Ethyl ether	59	2.529	2.535	-0.006	78	64523	10.0	9.80	
20 Acrolein	56	2.711	2.711	0.000	91	70388	50.0	45.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.742	-0.012	86	71216	10.0	11.2	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	88	61755	10.0	9.24	
23 Acetone	43	2.876	2.876	0.000	97	150653	50.0	49.1	
25 Iodomethane	142	2.912	2.912	0.000	98	122384	10.0	9.82	
26 Carbon disulfide	76	2.949	2.949	0.000	98	228825	10.0	10.1	
28 3-Chloro-1-propene	41	3.125	3.131	-0.006	89	96690	10.0	9.31	
27 Methyl acetate	43	3.180	3.180	0.000	93	106246	20.0	18.6	
30 Methylene Chloride	84	3.271	3.271	0.000	86	83172	10.0	9.48	
31 2-Methyl-2-propanol	59	3.441	3.448	-0.007	98	66791	100.0	95.4	
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	86	251798	10.0	9.73	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	81	82025	10.0	10.1	
33 Acrylonitrile	53	3.557	3.557	0.000	98	283372	100.0	97.3	
35 Hexane	57	3.709	3.715	-0.006	84	101601	10.0	9.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	95	124699	10.0	9.75	
37 Vinyl acetate	43	3.983	3.989	-0.006	96	292231	20.0	19.9	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	86	104123	10.0	9.81	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	77	93434	10.0	10.0	
43 2-Butanone (MEK)	43	4.524	4.537	-0.012	93	176677	50.0	46.0	
48 Chlorobromomethane	128	4.725	4.725	0.000	84	42985	10.0	9.11	
49 Tetrahydrofuran	42	4.762	4.768	-0.006	84	47889	20.0	19.1	
50 Chloroform	83	4.798	4.804	-0.006	92	134121	10.0	9.63	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	90	115751	10.0	9.65	
52 Cyclohexane	56	4.932	4.938	-0.006	83	107530	10.0	9.66	
55 Carbon tetrachloride	117	5.066	5.066	0.000	83	104128	10.0	9.60	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	94	105564	10.0	9.83	
57 Benzene	78	5.279	5.279	0.000	97	319996	10.0	9.68	
53 Isobutyl alcohol	43	5.285	5.285	0.000	47	99773	250.0	258.3	
58 1,2-Dichloroethane	62	5.340	5.340	0.000	59	101591	10.0	9.39	
59 n-Heptane	43	5.467	5.467	0.000	89	105097	10.0	9.73	
62 Trichloroethene	95	5.887	5.887	0.000	92	86370	10.0	9.93	
64 Methylcyclohexane	83	6.015	6.021	-0.006	83	141365	10.0	10.1	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	92	70535	10.0	9.37	
67 Dibromomethane	93	6.264	6.258	0.006	83	49920	10.0	9.36	
66 1,4-Dioxane	88	6.282	6.289	-0.007	18	22915	200.0	214.2	M
68 Dichlorobromomethane	83	6.410	6.416	-0.006	96	104182	10.0	9.81	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	87	50050	10.0	9.93	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	127464	10.0	10.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.982	-0.006	95	389686	50.0	48.8	
74 Toluene	92	7.128	7.128	0.000	92	217131	10.0	9.70	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	92	112516	10.0	9.55	
75 Ethyl methacrylate	69	7.451	7.451	0.000	67	117413	10.0	9.89	
79 1,1,2-Trichloroethane	83	7.584	7.590	-0.006	82	61862	10.0	9.69	
81 Tetrachloroethene	166	7.663	7.663	0.000	85	106167	10.0	10.3	
82 1,3-Dichloropropane	76	7.749	7.755	-0.006	90	126250	10.0	9.45	
80 2-Hexanone	43	7.816	7.822	-0.006	93	286409	50.0	47.0	
83 Chlorodibromomethane	129	7.986	7.986	0.000	84	83391	10.0	9.73	
84 Ethylene Dibromide	107	8.095	8.095	0.000	94	80000	10.0	9.70	
87 Chlorobenzene	112	8.576	8.576	0.000	94	246321	10.0	9.79	
88 Ethylbenzene	91	8.667	8.673	-0.006	35	411776	10.0	10.0	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	44	82876	10.0	9.41	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	165553	10.0	9.71	
91 o-Xylene	106	9.221	9.221	0.000	95	156264	10.0	9.79	
92 Styrene	104	9.245	9.245	0.000	94	268301	10.0	9.78	
95 Bromoform	173	9.495	9.489	0.006	88	53310	10.0	9.35	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	416894	10.0	9.90	
101 Bromobenzene	156	9.945	9.945	0.000	86	113870	10.0	9.92	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	80	102449	10.0	9.69	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	41	36278	10.0	9.62	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	478174	10.0	10.0	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	34	19499	10.0	9.28	
103 2-Chlorotoluene	126	10.121	10.121	0.000	97	105666	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	90	352395	10.0	9.91	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	106801	10.0	10.1	
106 tert-Butylbenzene	134	10.511	10.511	0.000	88	82313	10.0	9.67	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	75	356647	10.0	9.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	93	447071	10.0	9.94	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	73	215058	10.0	9.92	
110 4-Isopropyltoluene	119	10.857	10.857	0.000	96	384983	10.0	9.74	
113 1,4-Dichlorobenzene	146	10.942	10.943	0.000	93	218249	10.0	9.66	
115 n-Butylbenzene	91	11.247	11.247	0.000	93	335985	10.0	9.80	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	93	208718	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.013	0.006	74	20245	10.0	9.68	
119 1,2,4-Trichlorobenzene	180	12.688	12.695	-0.007	93	156257	10.0	9.80	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	93	76304	10.0	9.98	
121 Naphthalene	128	12.907	12.907	0.000	96	388771	10.0	9.70	
122 1,2,3-Trichlorobenzene	180	13.102	13.108	-0.006	95	148316	10.0	9.81	
S 124 Xylenes, Total	1				0			19.5	
S 123 Total BTEX	1				0			48.9	
S 126 1,3-Dichloropropene, Total	1				0			19.7	
S 125 1,2-Dichloroethene, Total	1				0			20.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 5.00

Units: uL

GAS CORP mix_00259

Amount Added: 5.00

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6367.D

Injection Date: 10-Jan-2018 02:15:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

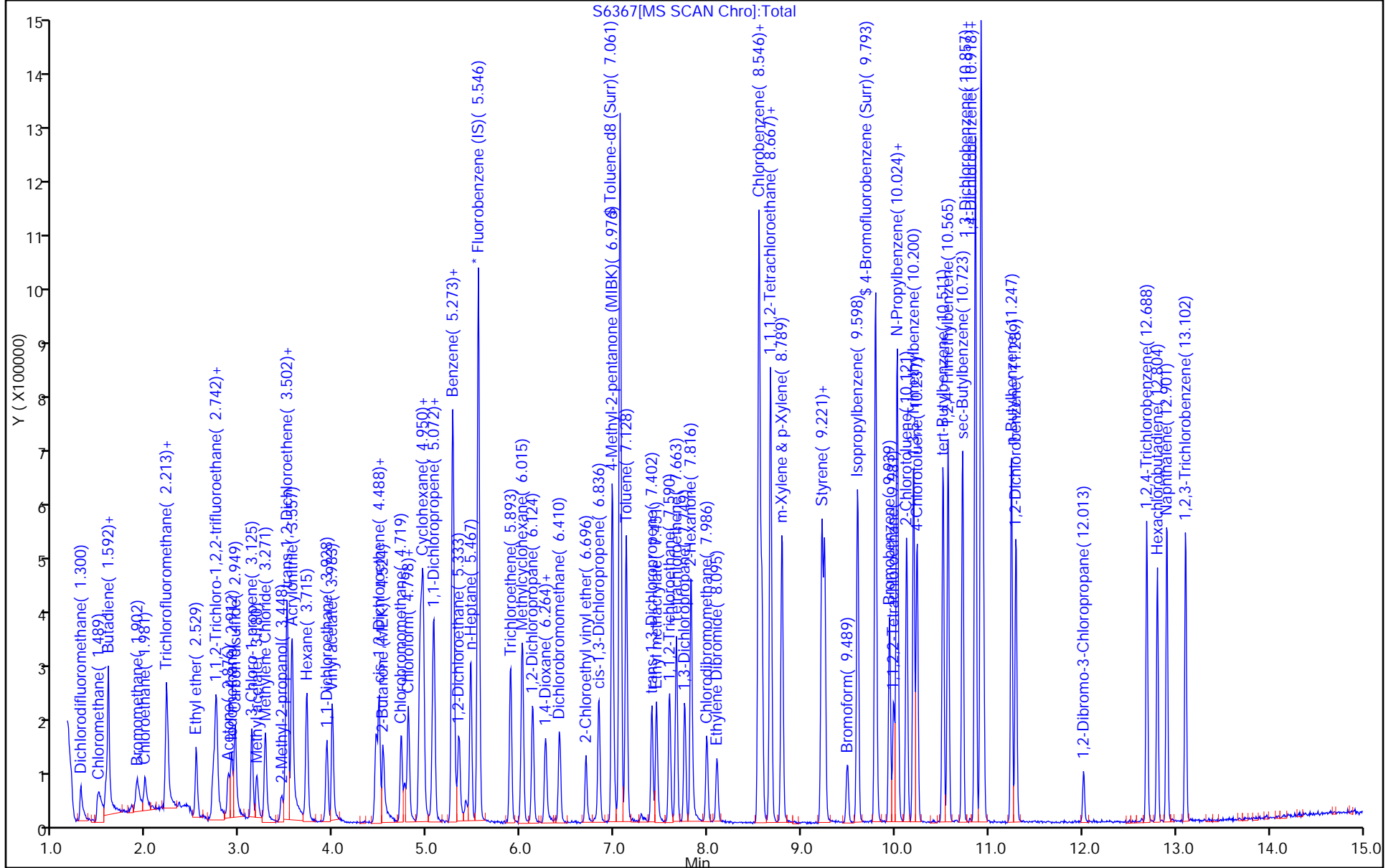
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

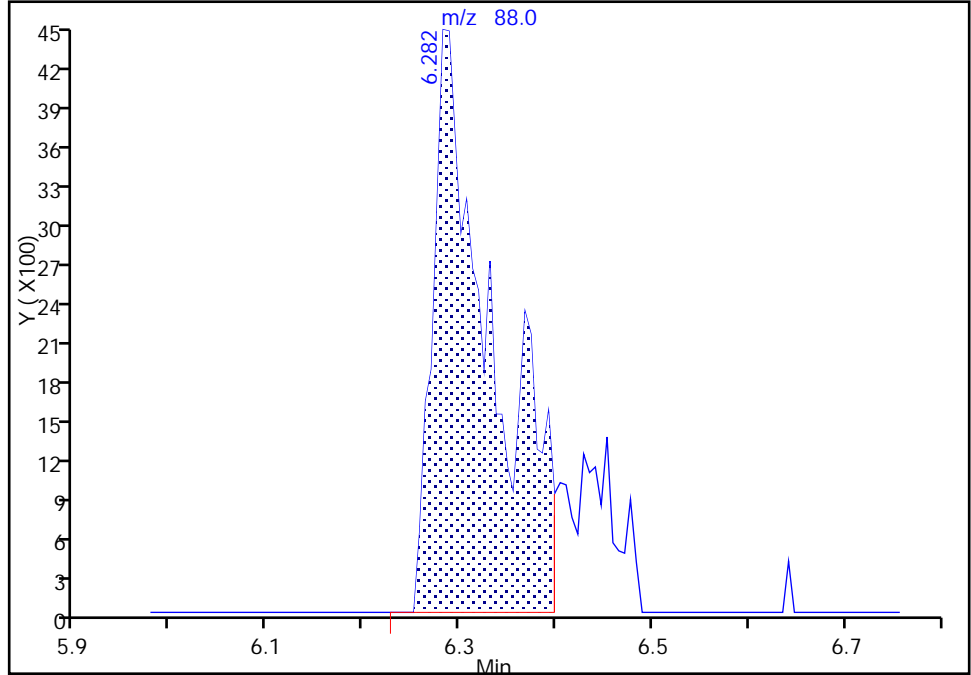
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6367.D
Injection Date: 10-Jan-2018 02:15:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: AS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

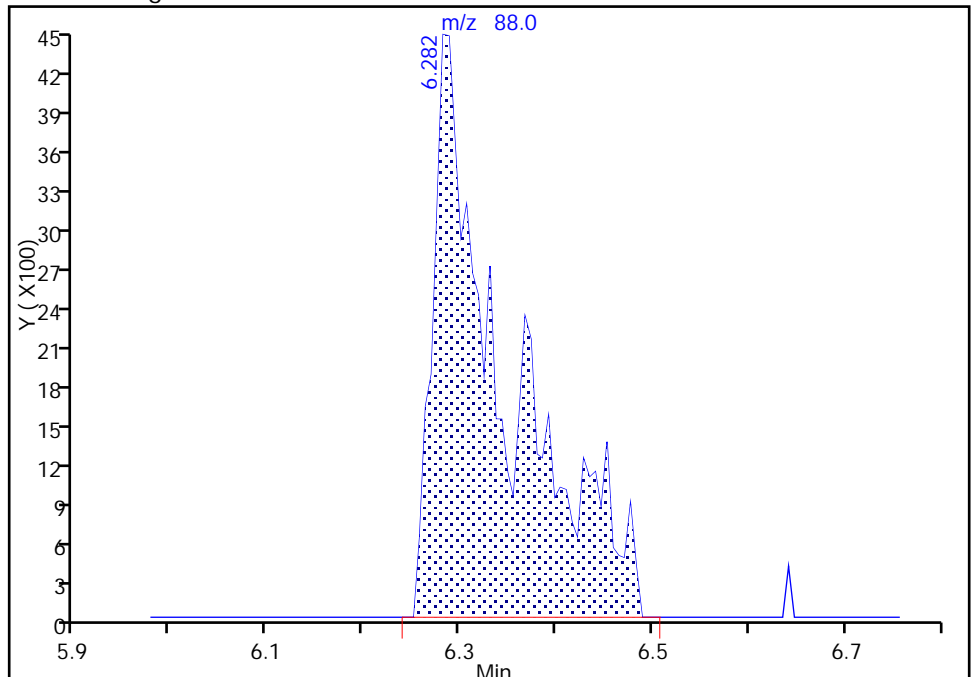
RT: 6.28
Area: 18704
Amount: 180.4232
Amount Units: ug/L

Processing Integration Results



RT: 6.28
Area: 22915
Amount: 214.1876
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:19:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6368.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 10-Jan-2018 02:38:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0068466-009
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:10:59 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:42:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	166664	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	83	342336	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	50	365955	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	83	207112	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	122068	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	843396	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.792	9.792	0.000	96	293554	25.0	24.7	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	98	228866	25.0	25.7	
12 Chloromethane	50	1.488	1.488	0.000	99	220489	25.0	24.0	
13 Vinyl chloride	62	1.574	1.574	0.000	78	249956	25.0	25.9	
151 Butadiene	54	1.598	1.598	0.000	89	225682	25.0	23.5	
14 Bromomethane	94	1.902	1.902	0.000	91	160386	25.0	22.1	
15 Chloroethane	64	1.993	1.993	0.000	94	154565	25.0	25.6	
16 Dichlorofluoromethane	67	2.212	2.212	0.000	82	354050	25.0	24.2	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	98	295003	25.0	25.5	
18 Ethyl ether	59	2.535	2.535	0.000	85	175400	25.0	25.5	
20 Acrolein	56	2.711	2.711	0.000	96	182386	125.0	111.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.736	0.000	83	172402	25.0	25.9	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	96	185007	25.0	26.5	
23 Acetone	43	2.875	2.875	0.000	99	366100	125.0	114.1	
25 Iodomethane	142	2.912	2.912	0.000	97	331208	25.0	25.4	
26 Carbon disulfide	76	2.955	2.955	0.000	98	617714	25.0	26.0	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	88	271400	25.0	25.0	
27 Methyl acetate	43	3.180	3.180	0.000	93	253271	50.0	43.6	
30 Methylene Chloride	84	3.271	3.271	0.000	85	213740	25.0	23.3	
31 2-Methyl-2-propanol	59	3.441	3.441	0.000	98	177523	250.0	242.7	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	91	666833	25.0	24.7	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	76	212704	25.0	25.0	
33 Acrylonitrile	53	3.557	3.557	0.000	98	753242	250.0	247.6	
35 Hexane	57	3.715	3.715	0.000	88	287182	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	85	344356	25.0	25.8	
37 Vinyl acetate	43	3.983	3.983	0.000	97	767480	50.0	50.0	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	89	281488	25.0	25.4	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	62	242221	25.0	24.9	
43 2-Butanone (MEK)	43	4.524	4.524	0.000	93	514572	125.0	128.1	
48 Chlorobromomethane	128	4.725	4.725	0.000	81	125955	25.0	25.5	
49 Tetrahydrofuran	42	4.755	4.755	0.000	80	126197	50.0	48.1	
50 Chloroform	83	4.798	4.798	0.000	91	363814	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	95	317603	25.0	25.3	
52 Cyclohexane	56	4.938	4.938	0.000	86	310432	25.0	26.7	
55 Carbon tetrachloride	117	5.059	5.059	0.000	90	297697	25.0	26.3	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	95	287865	25.0	25.7	
57 Benzene	78	5.278	5.278	0.000	96	872548	25.0	25.3	
53 Isobutyl alcohol	43	5.278	5.278	0.000	45	266833	625.0	661.2	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	79	281074	25.0	24.9	
59 n-Heptane	43	5.467	5.467	0.000	91	288393	25.0	25.6	
62 Trichloroethene	95	5.893	5.893	0.000	91	232019	25.0	25.5	
64 Methylcyclohexane	83	6.015	6.015	0.000	85	390127	25.0	26.7	
65 1,2-Dichloropropane	63	6.124	6.124	0.000	93	196585	25.0	25.0	
67 Dibromomethane	93	6.264	6.264	0.000	88	136925	25.0	24.6	
66 1,4-Dioxane	88	6.282	6.282	0.000	44	55816	500.0	493.4	
68 Dichlorobromomethane	83	6.416	6.416	0.000	97	281780	25.0	25.4	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	133089	25.0	25.3	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	338583	25.0	25.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.976	0.000	94	1038179	125.0	128.6	
74 Toluene	92	7.128	7.128	0.000	95	573941	25.0	25.3	
77 trans-1,3-Dichloropropene	75	7.396	7.396	0.000	89	316408	25.0	26.5	
75 Ethyl methacrylate	69	7.450	7.450	0.000	67	320765	25.0	26.7	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	89	165136	25.0	25.6	
81 Tetrachloroethene	166	7.663	7.663	0.000	87	281499	25.0	27.0	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	88	345447	25.0	25.6	
80 2-Hexanone	43	7.815	7.815	0.000	94	767444	125.0	124.4	
83 Chlorodibromomethane	129	7.986	7.986	0.000	88	227660	25.0	26.3	
84 Ethylene Dibromide	107	8.095	8.095	0.000	96	218358	25.0	26.2	
87 Chlorobenzene	112	8.576	8.576	0.000	94	655055	25.0	25.7	
88 Ethylbenzene	91	8.667	8.667	0.000	36	1090400	25.0	26.2	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	40	227187	25.0	25.5	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	450111	25.0	26.1	
91 o-Xylene	106	9.221	9.221	0.000	95	424820	25.0	26.3	
92 Styrene	104	9.245	9.245	0.000	94	729624	25.0	26.3	
95 Bromoform	173	9.488	9.488	0.000	95	155329	25.0	26.9	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	1124832	25.0	26.6	
101 Bromobenzene	156	9.939	9.939	0.000	89	305414	25.0	26.5	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.981	0.000	89	262416	25.0	24.7	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	50	93061	25.0	24.6	
99 N-Propylbenzene	91	10.024	10.024	0.000	97	1281826	25.0	26.8	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	38	65419	25.0	31.0	
103 2-Chlorotoluene	126	10.127	10.127	0.000	97	272748	25.0	26.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	92	949771	25.0	26.6	
105 4-Chlorotoluene	126	10.237	10.237	0.000	95	285066	25.0	26.8	
106 tert-Butylbenzene	134	10.510	10.510	0.000	89	222667	25.0	26.1	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	971219	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	1206791	25.0	26.7	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	72	570133	25.0	26.2	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	1061450	25.0	26.7	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	95	577920	25.0	25.5	
115 n-Butylbenzene	91	11.246	11.246	0.000	94	932451	25.0	27.1	
116 1,2-Dichlorobenzene	146	11.289	11.289	0.000	93	548845	25.0	26.3	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	83	52739	25.0	24.6	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	421678	25.0	26.4	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	93	202553	25.0	26.4	
121 Naphthalene	128	12.901	12.901	0.000	97	1037306	25.0	25.8	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	401086	25.0	26.4	

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00259	Amount Added: 12.50	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6368.D

Injection Date: 10-Jan-2018 02:38:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: ICIS 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

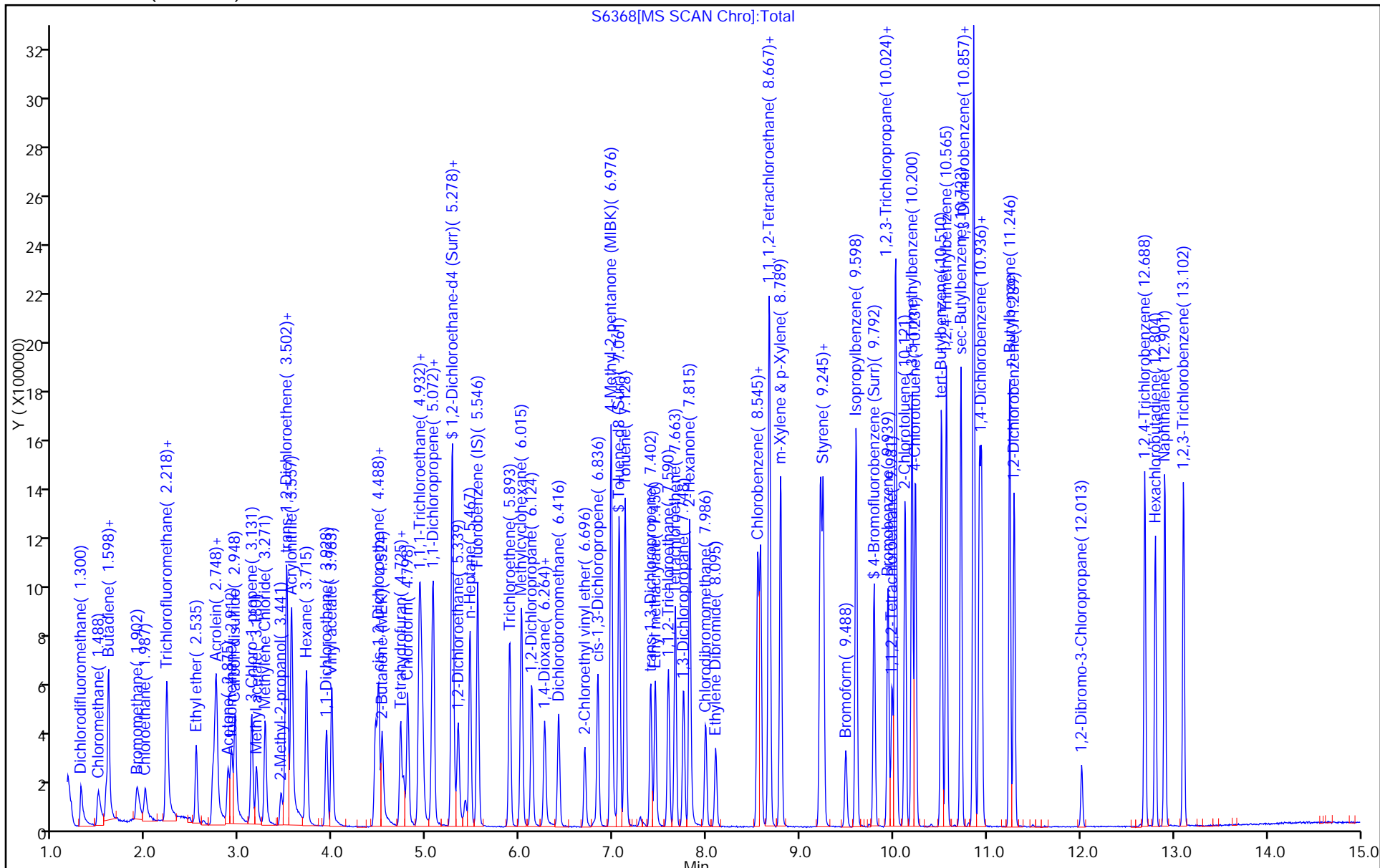
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6369.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 10-Jan-2018 03:01:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0068466-010
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:28 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 09:22:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	160301	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.546	-0.001	84	337090	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	38	372456	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	82	209003	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.267	-0.001	0	123014	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	835748	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	95	295222	25.0	25.2	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	99	447656	50.0	52.2	
12 Chloromethane	50	1.482	1.483	-0.001	99	435912	50.0	49.3	
13 Vinyl chloride	62	1.568	1.574	-0.006	80	480523	50.0	51.7	
151 Butadiene	54	1.592	1.592	0.000	89	434524	50.0	47.0	
14 Bromomethane	94	1.896	1.896	0.000	91	329202	50.0	47.1	
15 Chloroethane	64	1.987	1.987	0.000	94	292256	50.0	50.9	
16 Dichlorofluoromethane	67	2.212	2.213	-0.001	97	688074	50.0	48.8	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	99	549736	50.0	49.4	
18 Ethyl ether	59	2.535	2.535	0.000	86	344375	50.0	52.1	
20 Acrolein	56	2.705	2.711	-0.006	93	367719	250.0	234.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.742	-0.006	89	357897	50.0	55.9	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	91	343170	50.0	51.1	
23 Acetone	43	2.869	2.876	-0.007	97	763626	250.0	247.5	
25 Iodomethane	142	2.912	2.912	0.000	96	680807	50.0	54.3	
26 Carbon disulfide	76	2.949	2.949	0.000	98	1198937	50.0	52.5	
28 3-Chloro-1-propene	41	3.125	3.131	-0.006	90	535550	50.0	51.3	
27 Methyl acetate	43	3.174	3.180	-0.006	94	578054	100.0	104.8	
30 Methylene Chloride	84	3.271	3.271	0.000	82	415017	50.0	47.1	
31 2-Methyl-2-propanol	59	3.441	3.448	-0.007	99	418769	500.0	595.3	
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	86	1341184	50.0	51.6	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	86	430248	50.0	52.6	
33 Acrylonitrile	53	3.551	3.557	-0.006	97	1512916	500.0	517.0	
35 Hexane	57	3.715	3.715	0.000	89	540329	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	84	684498	50.0	53.3	
37 Vinyl acetate	43	3.983	3.989	-0.006	97	1601215	100.0	108.6	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	88	545293	50.0	51.1	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	75	479168	50.0	51.2	
43 2-Butanone (MEK)	43	4.518	4.537	-0.018	93	981814	250.0	254.1	
48 Chlorobromomethane	128	4.725	4.725	0.000	83	251259	50.0	53.0	
49 Tetrahydrofuran	42	4.749	4.768	-0.019	80	250374	100.0	99.2	
50 Chloroform	83	4.798	4.804	-0.006	92	726226	50.0	51.9	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	91	624899	50.0	51.8	
52 Cyclohexane	56	4.932	4.938	-0.006	87	583599	50.0	52.2	
55 Carbon tetrachloride	117	5.060	5.066	-0.006	92	571861	50.0	52.5	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	96	571011	50.0	52.9	
57 Benzene	78	5.279	5.279	0.000	96	1708015	50.0	51.4	
53 Isobutyl alcohol	43	5.279	5.285	-0.006	47	536145	1250.0	1381.2	
58 1,2-Dichloroethane	62	5.339	5.340	-0.001	79	555452	50.0	51.1	
59 n-Heptane	43	5.467	5.467	0.000	91	542453	50.0	50.0	
62 Trichloroethene	95	5.887	5.887	0.000	96	459042	50.0	52.5	
64 Methylcyclohexane	83	6.015	6.021	-0.006	85	737359	50.0	52.5	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	94	398784	50.0	52.7	
67 Dibromomethane	93	6.264	6.258	0.006	86	270642	50.0	50.5	
66 1,4-Dioxane	88	6.270	6.289	-0.019	33	111742	1000.0	986.7	
68 Dichlorobromomethane	83	6.410	6.416	-0.006	99	571539	50.0	53.5	
69 2-Chloroethyl vinyl ether	63	6.690	6.696	-0.006	94	277966	50.0	54.9	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	691934	50.0	55.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.982	-0.006	93	2049343	250.0	257.8	
74 Toluene	92	7.128	7.128	0.000	97	1142634	50.0	51.2	
77 trans-1,3-Dichloropropene	75	7.396	7.402	-0.006	92	643636	50.0	54.8	
75 Ethyl methacrylate	69	7.450	7.451	-0.001	67	639803	50.0	54.1	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	90	329923	50.0	51.9	
81 Tetrachloroethene	166	7.663	7.663	0.000	91	551916	50.0	53.7	
82 1,3-Dichloropropane	76	7.749	7.755	-0.006	89	683418	50.0	51.4	
80 2-Hexanone	43	7.815	7.822	-0.007	91	1556330	250.0	256.2	
83 Chlorodibromomethane	129	7.986	7.986	0.000	89	464740	50.0	54.4	
84 Ethylene Dibromide	107	8.095	8.095	0.000	98	431800	50.0	52.6	
87 Chlorobenzene	112	8.576	8.576	0.000	95	1291015	50.0	51.5	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	45	460688	50.0	52.5	
88 Ethylbenzene	91	8.667	8.673	-0.006	46	2120818	50.0	51.7	
90 m-Xylene & p-Xylene	106	8.789	8.795	-0.006	0	885913	50.0	52.2	
91 o-Xylene	106	9.215	9.221	-0.006	96	843569	50.0	53.0	
92 Styrene	104	9.245	9.245	0.000	94	1470378	50.0	53.8	
95 Bromoform	173	9.488	9.489	-0.001	97	330533	50.0	58.2	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	2161384	50.0	50.3	
101 Bromobenzene	156	9.939	9.945	-0.006	89	593033	50.0	50.6	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	88	543147	50.0	50.3	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	48	186251	50.0	48.4	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	2494331	50.0	51.3	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	38	134285	50.0	62.5	
103 2-Chlorotoluene	126	10.121	10.121	0.000	97	534267	50.0	50.3	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	93	1847863	50.0	50.9	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	563356	50.0	52.0	
106 tert-Butylbenzene	134	10.517	10.511	0.006	89	447451	50.0	51.5	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	1883643	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	2308921	50.0	50.2	
110 4-Isopropyltoluene	119	10.857	10.857	0.000	96	2056564	50.0	50.9	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	71	1120470	50.0	50.6	
113 1,4-Dichlorobenzene	146	10.942	10.943	0.000	95	1150561	50.0	49.9	
115 n-Butylbenzene	91	11.240	11.247	-0.007	94	1794741	50.0	51.2	
116 1,2-Dichlorobenzene	146	11.289	11.295	-0.006	94	1085090	50.0	51.0	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	87	108654	50.0	49.6	
119 1,2,4-Trichlorobenzene	180	12.688	12.695	-0.007	95	832573	50.0	51.1	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	94	389378	50.0	49.9	
121 Naphthalene	128	12.901	12.907	-0.006	97	2078900	50.0	50.8	
122 1,2,3-Trichlorobenzene	180	13.102	13.108	-0.006	96	788196	50.0	51.1	
S 126 1,3-Dichloropropene, Total	1				0			109.9	
S 125 1,2-Dichloroethene, Total	1				0			103.8	
S 124 Xylenes, Total	1				0			105.2	
S 123 Total BTEX	1				0			259.6	

Reagents:

8260 CORP mix_00118	Amount Added: 25.00	Units: uL	
GAS CORP mix_00259	Amount Added: 25.00	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6369.D

Injection Date: 10-Jan-2018 03:01:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

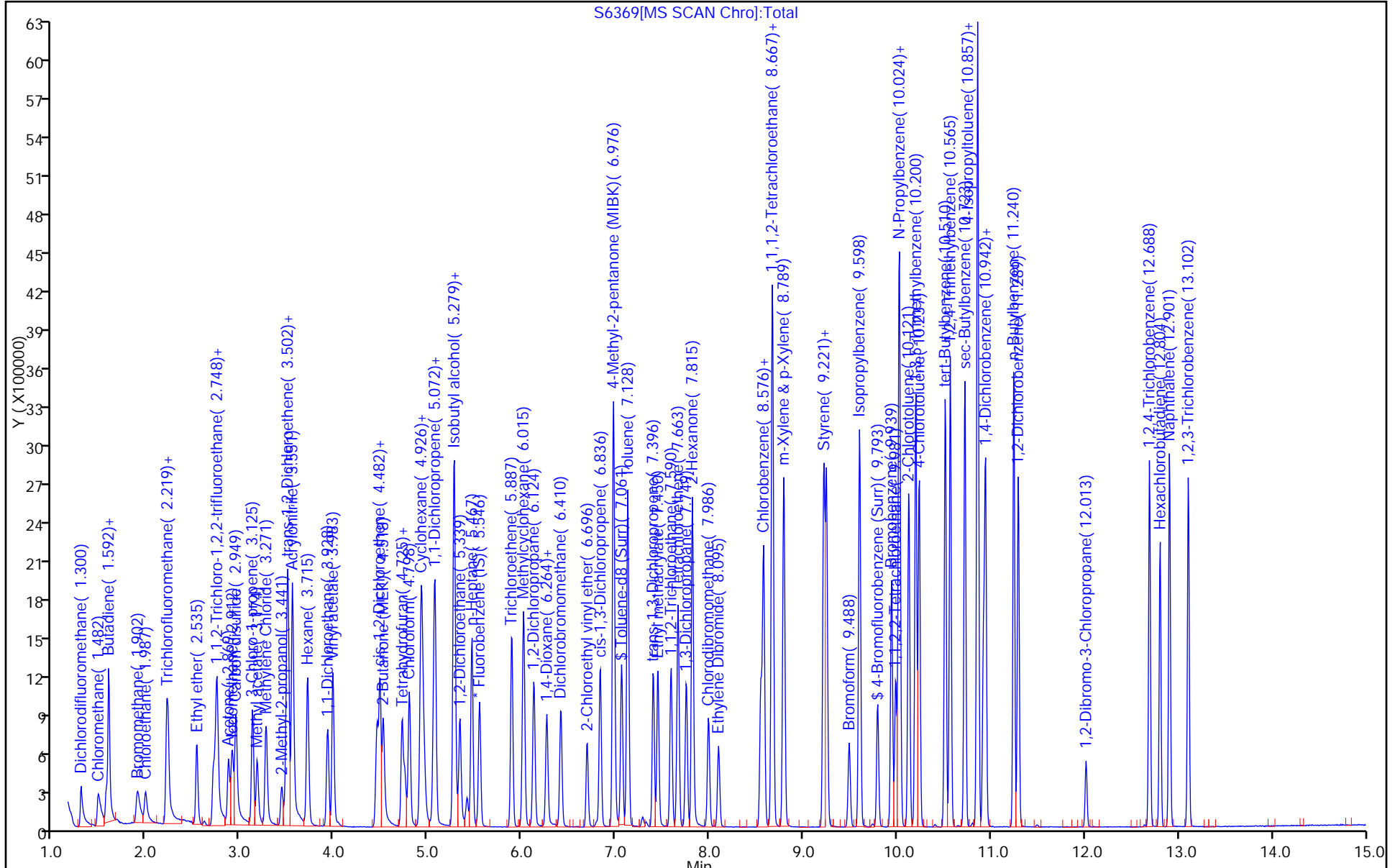
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6370.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 10-Jan-2018 03:24:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0068466-011
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:30 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 09:23:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	166632	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.546	-0.001	83	343925	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	17	368304	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	75	210413	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.267	-0.001	0	127329	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	90	860639	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.792	9.793	-0.001	88	297924	25.0	24.9	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	99	914056	100.0	102.6	
12 Chloromethane	50	1.488	1.483	0.005	99	847109	100.0	92.1	
13 Vinyl chloride	62	1.574	1.574	0.000	98	953184	100.0	98.6	
151 Butadiene	54	1.598	1.592	0.006	87	836458	100.0	87.1	
14 Bromomethane	94	1.908	1.896	0.012	90	639100	100.0	87.9	
15 Chloroethane	64	1.993	1.987	0.006	99	581997	100.0	98.0	
16 Dichlorofluoromethane	67	2.212	2.213	-0.001	82	1381233	100.0	94.3	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	99	1117793	100.0	96.7	
18 Ethyl ether	59	2.535	2.535	0.000	86	690803	100.0	100.5	
20 Acrolein	56	2.711	2.711	0.000	97	742443	500.0	454.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.742	-0.006	92	714686	100.0	107.4	
22 1,1-Dichloroethene	96	2.754	2.748	0.006	91	759077	100.0	108.7	
23 Acetone	43	2.869	2.876	-0.007	100	1515206	500.0	472.4	
25 Iodomethane	142	2.912	2.912	0.000	98	1384918	100.0	106.3	
26 Carbon disulfide	76	2.948	2.949	-0.001	98	2431777	100.0	102.4	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	88	1099935	100.0	101.4	
27 Methyl acetate	43	3.174	3.180	-0.006	94	1162544	200.0	203.5	
30 Methylene Chloride	84	3.271	3.271	0.000	86	841028	100.0	91.8	
31 2-Methyl-2-propanol	59	3.441	3.448	-0.007	100	838444	1000.0	1146.7	
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	85	2660879	100.0	98.4	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	82	863205	100.0	101.5	
33 Acrylonitrile	53	3.551	3.557	-0.006	97	3018045	1000.0	992.1	
35 Hexane	57	3.715	3.715	0.000	90	1133503	100.0	100.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	96	1367268	100.0	102.4	
37 Vinyl acetate	43	3.983	3.989	-0.006	97	3172748	200.0	206.9	
44 2,2-Dichloropropane	77	4.457	4.451	0.006	89	1090781	100.0	98.4	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	76	969744	100.0	99.7	
43 2-Butanone (MEK)	43	4.518	4.537	-0.018	93	1978443	500.0	492.7	
48 Chlorobromomethane	128	4.725	4.725	0.000	85	503161	100.0	102.1	
49 Tetrahydrofuran	42	4.749	4.768	-0.019	82	523854	200.0	199.6	
50 Chloroform	83	4.798	4.804	-0.006	83	1461401	100.0	100.5	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	95	1269842	100.0	101.3	
52 Cyclohexane	56	4.932	4.938	-0.006	86	1231205	100.0	105.9	
55 Carbon tetrachloride	117	5.059	5.066	-0.007	91	1181965	100.0	104.3	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	94	1161709	100.0	103.6	
57 Benzene	78	5.278	5.279	-0.001	96	3405384	100.0	98.7	
53 Isobutyl alcohol	43	5.278	5.285	-0.007	49	1109896	2500.0	2750.6	
58 1,2-Dichloroethane	62	5.339	5.340	-0.001	79	1112826	100.0	98.5	
59 n-Heptane	43	5.467	5.467	0.000	91	1166252	100.0	103.4	
62 Trichloroethene	95	5.893	5.887	0.006	95	906220	100.0	99.7	
64 Methylcyclohexane	83	6.015	6.021	-0.006	85	1525363	100.0	104.4	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	93	794508	100.0	101.1	
67 Dibromomethane	93	6.264	6.258	0.006	90	555699	100.0	99.8	
66 1,4-Dioxane	88	6.270	6.289	-0.019	33	234045	2000.0	2008.8	
68 Dichlorobromomethane	83	6.416	6.416	0.000	93	1161506	100.0	104.7	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	554979	100.0	105.4	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	1382509	100.0	105.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.982	-0.006	93	3969955	500.0	489.4	
74 Toluene	92	7.128	7.128	0.000	99	2279509	100.0	100.2	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	91	1330657	100.0	111.1	
75 Ethyl methacrylate	69	7.450	7.451	-0.001	68	1271705	100.0	105.4	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	85	655334	100.0	101.0	
81 Tetrachloroethene	166	7.663	7.663	0.000	94	1093313	100.0	104.3	
82 1,3-Dichloropropane	76	7.748	7.755	-0.007	89	1355048	100.0	99.9	
80 2-Hexanone	43	7.815	7.822	-0.007	90	3069448	500.0	495.2	
83 Chlorodibromomethane	129	7.986	7.986	0.000	88	960414	100.0	110.2	
84 Ethylene Dibromide	107	8.095	8.095	0.000	100	857263	100.0	102.3	
87 Chlorobenzene	112	8.576	8.576	0.000	95	2556714	100.0	100.0	
88 Ethylbenzene	91	8.667	8.673	-0.006	46	4067161	100.0	97.1	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	47	930808	100.0	104.1	
90 m-Xylene & p-Xylene	106	8.789	8.795	-0.006	0	1758300	100.0	101.5	
91 o-Xylene	106	9.215	9.221	-0.006	96	1682319	100.0	103.7	
92 Styrene	104	9.245	9.245	0.000	94	2886675	100.0	103.6	
95 Bromoform	173	9.488	9.489	-0.001	97	684016	100.0	118.1	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	4149484	100.0	97.6	
101 Bromobenzene	156	9.938	9.945	-0.007	89	1182211	100.0	102.0	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	80	1080627	100.0	101.2	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	50	366275	100.0	96.2	
99 N-Propylbenzene	91	10.024	10.024	0.000	96	4614918	100.0	96.0	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	39	292231	100.0	137.6	
103 2-Chlorotoluene	126	10.127	10.121	0.006	97	1040944	100.0	99.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	93	3511320	100.0	97.7	
105 4-Chlorotoluene	126	10.237	10.237	0.000	95	1112388	100.0	103.7	
106 tert-Butylbenzene	134	10.510	10.511	-0.001	90	859089	100.0	100.0	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	3587606	100.0	97.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	93	4335522	100.0	95.4	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	75	2178348	100.0	99.4	
110 4-Isopropyltoluene	119	10.863	10.857	0.006	95	3832555	100.0	96.0	
113 1,4-Dichlorobenzene	146	10.942	10.943	0.000	94	2221187	100.0	97.3	
115 n-Butylbenzene	91	11.240	11.247	-0.007	93	3331858	100.0	96.2	
116 1,2-Dichlorobenzene	146	11.289	11.295	-0.006	92	2083589	100.0	99.0	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	88	220136	100.0	101.2	
119 1,2,4-Trichlorobenzene	180	12.688	12.695	-0.007	95	1599598	100.0	99.4	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	97	744780	100.0	96.5	
121 Naphthalene	128	12.901	12.907	-0.006	97	3969443	100.0	98.0	
122 1,2,3-Trichlorobenzene	180	13.102	13.108	-0.006	94	1510374	100.0	98.9	
S 124 Xylenes, Total	1				0			205.1	
S 123 Total BTEX	1				0			501.1	
S 126 1,3-Dichloropropene, Total	1				0			216.9	
S 125 1,2-Dichloroethene, Total	1				0			201.2	

Reagents:

8260 CORP mix_00118	Amount Added: 50.00	Units: uL	
GAS CORP mix_00259	Amount Added: 50.00	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6370.D

Injection Date: 10-Jan-2018 03:24:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 7

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

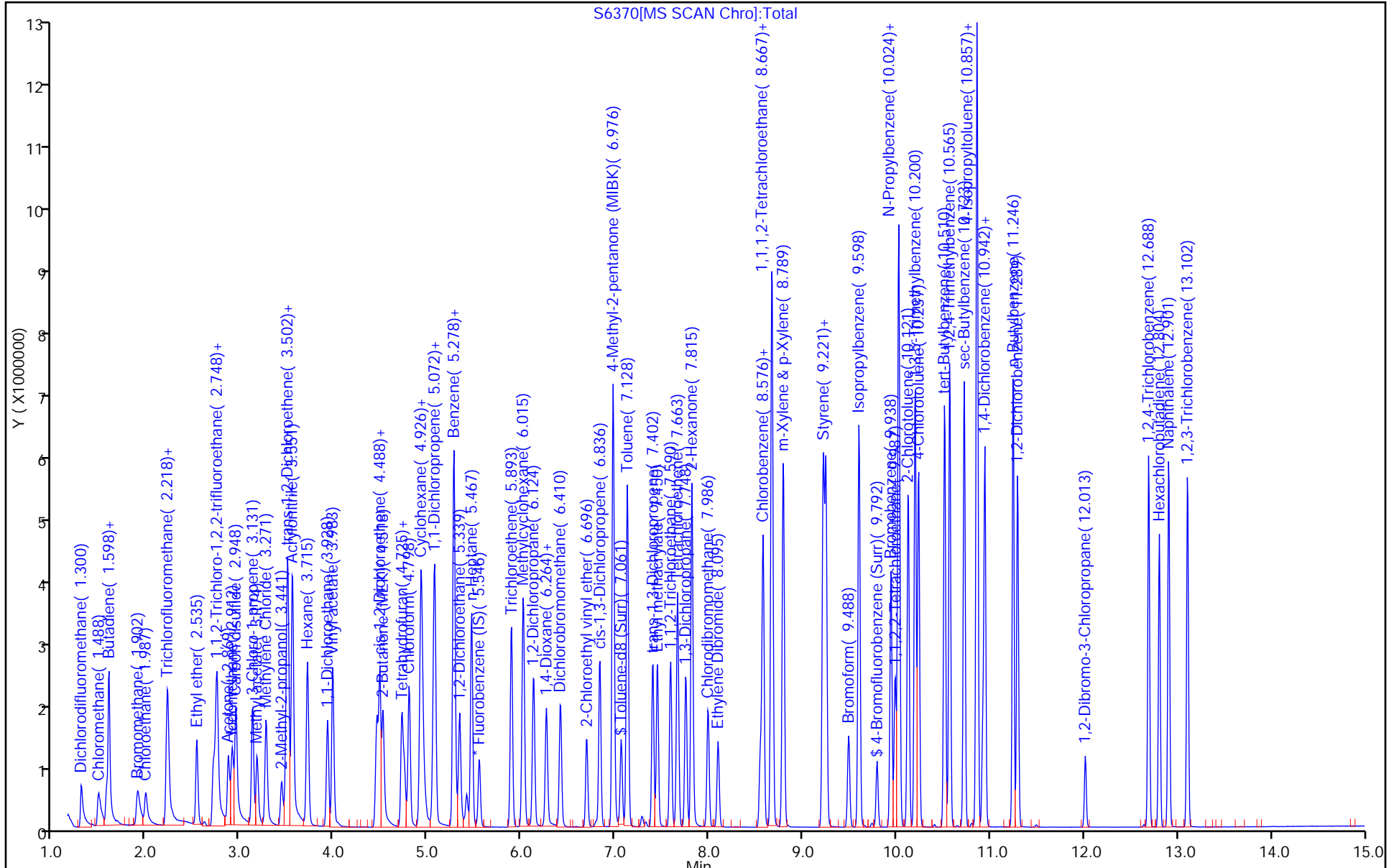
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-395763/3 Calibration Date: 01/15/2018 09:19
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S6547.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.336	1.506	0.1000	28.2	25.0	12.7	50.0
Chloromethane	Ave	1.379	1.366	0.1000	24.8	25.0	-1.0	20.0
Vinyl chloride	Ave	1.450	1.514	0.1000	26.1	25.0	4.4	20.0
Butadiene	Ave	1.441	1.418		24.6	25.0	-1.6	20.0
Bromomethane	Ave	1.091	1.101	0.1000	25.2	25.0	1.0	50.0
Chloroethane	Lin1		0.9607	0.1000	26.5	25.0	6.1	50.0
Dichlorofluoromethane	Ave	2.197	2.128		24.2	25.0	-3.2	20.0
Trichlorofluoromethane	Ave	1.735	1.883	0.1000	27.1	25.0	8.5	20.0
Ethyl ether	Ave	1.032	1.104		26.7	25.0	7.0	20.0
Acrolein	Ave	0.2449	0.2397		122	125	-2.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.999	1.135	0.1000	28.4	25.0	13.6	20.0
1,1-Dichloroethene	Ave	1.048	1.182	0.1000	28.2	25.0	12.8	20.0
Acetone	Ave	0.4813	0.5330	0.1000	138	125	10.7	50.0
Iodomethane	Ave	1.954	2.243		28.7	25.0	14.8	20.0
Carbon disulfide	Ave	3.563	3.775	0.1000	26.5	25.0	6.0	20.0
Allyl chloride	Ave	1.627	1.654		25.4	25.0	1.7	20.0
Methyl acetate	Lin1		0.9499	0.1000	54.8	50.0	9.6	50.0
Methylene Chloride	Ave	1.374	1.337	0.1000	24.3	25.0	-2.7	20.0
2-Methyl-2-propanol	Ave	0.1097	0.1724		393	250	57.2*	50.0
Methyl tert-butyl ether	Ave	4.056	4.126	0.1000	25.4	25.0	1.7	20.0
trans-1,2-Dichloroethene	Ave	1.276	1.342	0.1000	26.3	25.0	5.2	20.0
Acrylonitrile	Ave	0.4564	0.5128		281	250	12.3	20.0
Hexane	Ave	1.692	1.848		27.3	25.0	9.2	20.0
1,1-Dichloroethane	Ave	2.004	2.081	0.2000	26.0	25.0	3.8	20.0
Vinyl acetate	Ave	2.300	2.620		57.0	50.0	13.9	20.0
2,2-Dichloropropane	Ave	1.663	1.704		25.6	25.0	2.4	20.0
cis-1,2-Dichloroethene	Ave	1.459	1.489	0.1000	25.5	25.0	2.0	20.0
2-Butanone (MEK)	Ave	0.6025	0.6799	0.1000	141	125	12.8	20.0
Chlorobromomethane	Ave	0.7395	0.7963		26.9	25.0	7.7	20.0
Tetrahydrofuran	Ave	0.3937	0.4147		52.7	50.0	5.3	20.0
Chloroform	Ave	2.182	2.253	0.2000	25.8	25.0	3.2	20.0
1,1,1-Trichloroethane	Ave	1.880	1.864	0.1000	24.8	25.0	-0.9	20.0
Cyclohexane	Ave	1.744	1.825	0.1000	26.2	25.0	4.7	20.0
Carbon tetrachloride	Ave	1.700	1.837	0.1000	27.0	25.0	8.1	20.0
1,1-Dichloropropene	Ave	1.683	1.765		26.2	25.0	4.9	20.0
Benzene	Ave	5.178	5.286	0.5000	25.5	25.0	2.1	20.0
Isobutyl alcohol	Ave	0.0605	0.0682		704	625	12.7	50.0
1,2-Dichloroethane	Ave	1.695	1.685	0.1000	24.8	25.0	-0.6	20.0
n-Heptane	Ave	1.692	1.725		25.5	25.0	2.0	20.0
Trichloroethene	Ave	1.363	1.383	0.2000	25.4	25.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-395763/3 Calibration Date: 01/15/2018 09:19
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S6547.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.192	2.431	0.1000	27.7	25.0	10.9	20.0
1,2-Dichloropropane	Ave	1.179	1.206	0.1000	25.6	25.0	2.3	20.0
Dibromomethane	Ave	0.8355	0.8379	0.1000	25.1	25.0	0.3	20.0
1,4-Dioxane	Lin1		0.0094		566	500	13.1	50.0
Bromodichloromethane	Ave	1.665	1.730	0.2000	26.0	25.0	3.9	20.0
2-Chloroethyl vinyl ether	Ave	0.7902	0.8560		27.1	25.0	8.3	20.0
cis-1,3-Dichloropropene	Ave	1.961	2.045	0.2000	26.1	25.0	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5896	0.6088	0.1000	129	125	3.3	20.0
Toluene	Ave	1.654	1.659	0.4000	25.1	25.0	0.3	20.0
trans-1,3-Dichloropropene	Ave	0.8706	0.8950	0.1000	25.7	25.0	2.8	20.0
Ethyl methacrylate	Ave	0.8769	0.8698		24.8	25.0	-0.8	20.0
1,1,2-Trichloroethane	Ave	0.4717	0.4740	0.1000	25.1	25.0	0.5	20.0
Tetrachloroethene	Ave	0.7620	0.8277	0.2000	27.2	25.0	8.6	20.0
1,3-Dichloropropane	Ave	0.9863	0.996		25.2	25.0	0.9	20.0
2-Hexanone	Ave	0.4505	0.4661	0.1000	129	125	3.5	20.0
Dibromochloromethane	Ave	0.6333	0.7017	0.1000	27.7	25.0	10.8	20.0
1,2-Dibromoethane	Ave	0.6092	0.6234		25.6	25.0	2.3	20.0
Chlorobenzene	Ave	1.858	1.896	0.5000	25.5	25.0	2.0	20.0
Ethylbenzene	Ave	3.044	3.110	0.1000	25.5	25.0	2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6502	0.6886		26.5	25.0	5.9	20.0
m,p-Xylene	Ave	1.260	1.264	0.1000	25.1	25.0	0.3	20.0
o-Xylene	Ave	1.179	1.220	0.3000	25.9	25.0	3.4	20.0
Styrene	Ave	2.025	2.075	0.3000	25.6	25.0	2.4	20.0
Bromoform	Ave	0.4210	0.5058	0.1000	30.0	25.0	20.1	50.0
Isopropylbenzene	Ave	2.886	2.773	0.1000	24.0	25.0	-3.9	20.0
Bromobenzene	Ave	0.7866	0.7786		24.7	25.0	-1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7245	0.6984	0.3000	24.1	25.0	-3.6	20.0
1,2,3-Trichloropropane	Ave	0.2585	0.2403		23.2	25.0	-7.1	20.0
N-Propylbenzene	Ave	3.264	3.181		24.4	25.0	-2.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1441	0.1705		29.6	25.0	18.3	50.0
2-Chlorotoluene	Ave	0.7124	0.6799		23.9	25.0	-4.6	20.0
1,3,5-Trimethylbenzene	Ave	2.439	2.300		23.6	25.0	-5.7	20.0
4-Chlorotoluene	Ave	0.7278	0.7149		24.6	25.0	-1.8	20.0
tert-Butylbenzene	Ave	0.5833	0.5577		23.9	25.0	-4.4	20.0
1,2,4-Trimethylbenzene	Ave	2.494	2.418		24.2	25.0	-3.1	20.0
sec-Butylbenzene	Ave	3.084	3.034		24.6	25.0	-1.6	20.0
1,3-Dichlorobenzene	Ave	1.487	1.494	0.6000	25.1	25.0	0.4	20.0
4-Isopropyltoluene	Ave	2.711	2.656		24.5	25.0	-2.0	20.0
1,4-Dichlorobenzene	Ave	1.549	1.525	0.5000	24.6	25.0	-1.5	20.0
n-Butylbenzene	Ave	2.351	2.288		24.3	25.0	-2.7	20.0
1,2-Dichlorobenzene	Ave	1.428	1.437	0.4000	25.2	25.0	0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-395763/3 Calibration Date: 01/15/2018 09:19
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S6547.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1199	0.0500	20.5	25.0	-17.8	50.0
1,2,4-Trichlorobenzene	Ave	1.093	1.104	0.2000	25.3	25.0	1.0	20.0
Hexachlorobutadiene	Ave	0.5240	0.5351		25.5	25.0	2.1	20.0
Naphthalene	Ave	2.749	2.608		23.7	25.0	-5.1	20.0
1,2,3-Trichlorobenzene	Ave	1.036	1.023		24.7	25.0	-1.3	20.0
Dibromofluoromethane (Surr)	Ave	1.271	1.356		26.7	25.0	6.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7690	0.7919		25.7	25.0	3.0	20.0
Toluene-d8 (Surr)	Ave	2.497	2.581		25.8	25.0	3.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8692	0.996		28.7	25.0	14.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6547.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 15-Jan-2018 09:19:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0068570-003
 Operator ID: AM Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 15-Jan-2018 09:49:35 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: moffata

Date: 15-Jan-2018 09:49:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	146224	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	83	311253	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	47	362560	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.950	4.950	0.000	83	198318	25.0	26.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.260	5.260	0.000	0	115796	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	803374	25.0	25.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	95	310107	25.0	28.7	
10 Dichlorodifluoromethane	85	1.294	1.294	0.000	97	220264	25.0	28.2	
12 Chloromethane	50	1.482	1.482	0.000	99	199720	25.0	24.8	
13 Vinyl chloride	62	1.568	1.568	0.000	94	221447	25.0	26.1	
151 Butadiene	54	1.592	1.592	0.000	88	207304	25.0	24.6	
14 Bromomethane	94	1.884	1.884	0.000	86	161012	25.0	25.2	
15 Chloroethane	64	1.981	1.981	0.000	95	140477	25.0	26.5	
16 Dichlorofluoromethane	67	2.206	2.206	0.000	81	311143	25.0	24.2	
17 Trichlorofluoromethane	101	2.218	2.218	0.000	97	275294	25.0	27.1	
18 Ethyl ether	59	2.529	2.529	0.000	88	161369	25.0	26.7	
20 Acrolein	56	2.705	2.705	0.000	92	175257	125.0	122.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.730	0.000	91	165905	25.0	28.4	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	83	172833	25.0	28.2	
23 Acetone	43	2.869	2.869	0.000	100	389651	125.0	138.4	
25 Iodomethane	142	2.906	2.906	0.000	97	327934	25.0	28.7	
26 Carbon disulfide	76	2.949	2.949	0.000	98	552026	25.0	26.5	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	88	241785	25.0	25.4	
27 Methyl acetate	43	3.174	3.174	0.000	94	277799	50.0	54.8	
30 Methylene Chloride	84	3.265	3.265	0.000	88	195504	25.0	24.3	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	99	252087	250.0	392.9	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	84	603316	25.0	25.4	
34 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	79	196211	25.0	26.3	
33 Acrylonitrile	53	3.551	3.551	0.000	99	749782	250.0	280.9	
35 Hexane	57	3.709	3.709	0.000	90	270181	25.0	27.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	96	304228	25.0	26.0	
37 Vinyl acetate	43	3.983	3.983	0.000	96	766289	50.0	57.0	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	88	249098	25.0	25.6	
45 cis-1,2-Dichloroethene	96	4.482	4.482	0.000	75	217684	25.0	25.5	
43 2-Butanone (MEK)	43	4.518	4.518	0.000	93	497090	125.0	141.1	
48 Chlorobromomethane	128	4.719	4.719	0.000	86	116440	25.0	26.9	
49 Tetrahydrofuran	42	4.749	4.749	0.000	82	121286	50.0	52.7	
50 Chloroform	83	4.798	4.798	0.000	92	329387	25.0	25.8	
51 1,1,1-Trichloroethane	97	4.914	4.914	0.000	95	272556	25.0	24.8	
52 Cyclohexane	56	4.926	4.926	0.000	87	266925	25.0	26.2	
55 Carbon tetrachloride	117	5.060	5.060	0.000	91	268677	25.0	27.0	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	96	258100	25.0	26.2	
57 Benzene	78	5.272	5.272	0.000	96	772983	25.0	25.5	
53 Isobutyl alcohol	43	5.272	5.272	0.000	54	249364	625.0	704.2	
58 1,2-Dichloroethane	62	5.333	5.333	0.000	78	246361	25.0	24.8	
59 n-Heptane	43	5.461	5.461	0.000	92	252247	25.0	25.5	
62 Trichloroethene	95	5.887	5.887	0.000	94	202181	25.0	25.4	
64 Methylcyclohexane	83	6.015	6.015	0.000	85	355458	25.0	27.7	
65 1,2-Dichloropropane	63	6.124	6.124	0.000	93	176376	25.0	25.6	
67 Dibromomethane	93	6.258	6.258	0.000	89	122519	25.0	25.1	
66 1,4-Dioxane	88	6.276	6.276	0.000	45	58422	500.0	565.6	
68 Dichlorobromomethane	83	6.410	6.410	0.000	98	253006	25.0	26.0	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	125171	25.0	27.1	
72 cis-1,3-Dichloropropene	75	6.830	6.830	0.000	92	298972	25.0	26.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.976	0.000	94	947514	125.0	129.1	
74 Toluene	92	7.128	7.128	0.000	96	516226	25.0	25.1	
77 trans-1,3-Dichloropropene	75	7.396	7.396	0.000	92	278561	25.0	25.7	
75 Ethyl methacrylate	69	7.450	7.450	0.000	66	270715	25.0	24.8	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	89	147540	25.0	25.1	
81 Tetrachloroethene	166	7.663	7.663	0.000	88	257626	25.0	27.2	
82 1,3-Dichloropropane	76	7.748	7.748	0.000	88	309858	25.0	25.2	
80 2-Hexanone	43	7.815	7.815	0.000	94	725439	125.0	129.3	
83 Chlorodibromomethane	129	7.986	7.986	0.000	87	218390	25.0	27.7	
84 Ethylene Dibromide	107	8.095	8.095	0.000	96	194030	25.0	25.6	
87 Chlorobenzene	112	8.576	8.576	0.000	96	590155	25.0	25.5	
88 Ethylbenzene	91	8.667	8.667	0.000	36	967903	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	46	214323	25.0	26.5	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	393402	25.0	25.1	
91 o-Xylene	106	9.221	9.221	0.000	95	379582	25.0	25.9	
92 Styrene	104	9.245	9.245	0.000	94	645855	25.0	25.6	
95 Bromoform	173	9.488	9.488	0.000	98	157445	25.0	30.0	
94 Isopropylbenzene	105	9.598	9.598	0.000	94	1005418	25.0	24.0	
101 Bromobenzene	156	9.939	9.939	0.000	88	282283	25.0	24.7	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	91	253208	25.0	24.1	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	42	87124	25.0	23.2	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	1153437	25.0	24.4	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	38	61804	25.0	29.6	
103 2-Chlorotoluene	126	10.121	10.121	0.000	97	246520	25.0	23.9	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	92	834038	25.0	23.6	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	259197	25.0	24.6	
106 tert-Butylbenzene	134	10.510	10.510	0.000	91	202213	25.0	23.9	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	876572	25.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	93	1099886	25.0	24.6	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	74	541490	25.0	25.1	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	962919	25.0	24.5	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	96	552992	25.0	24.6	
115 n-Butylbenzene	91	11.240	11.240	0.000	94	829440	25.0	24.3	
116 1,2-Dichlorobenzene	146	11.289	11.289	0.000	93	520868	25.0	25.2	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	87	43465	25.0	20.5	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	93	400249	25.0	25.3	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	95	194019	25.0	25.5	
121 Naphthalene	128	12.901	12.901	0.000	96	945487	25.0	23.7	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	370777	25.0	24.7	

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00259	Amount Added: 12.50	Units: uL	
S_8260_IS_00275	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6547.D

Injection Date: 15-Jan-2018 09:19:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

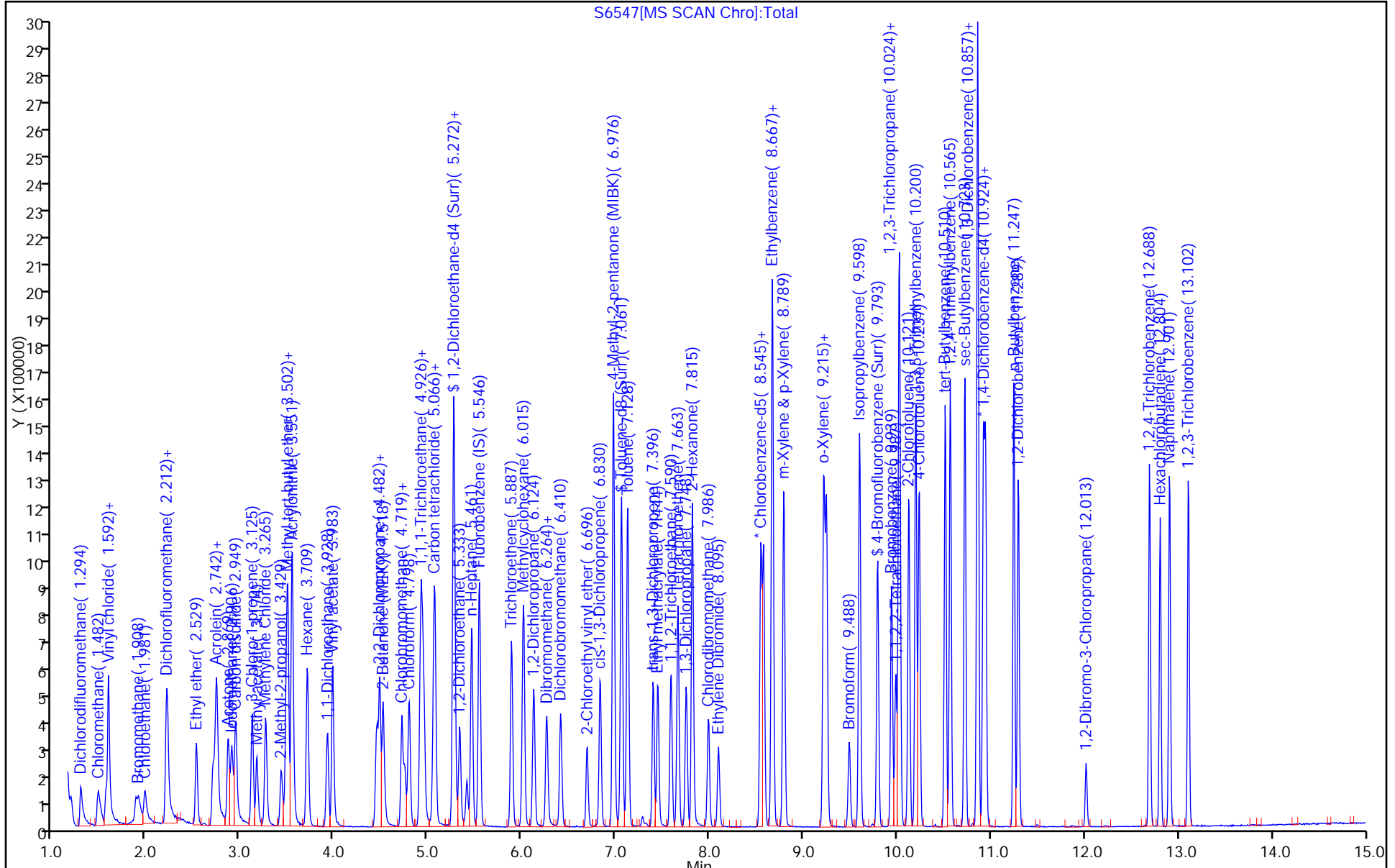
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6361.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 09-Jan-2018 23:52:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068466-002
 Operator ID: AS Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:32 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: sonkera Date: 10-Jan-2018 00:03:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.832	3.832	0.000	0	310867	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

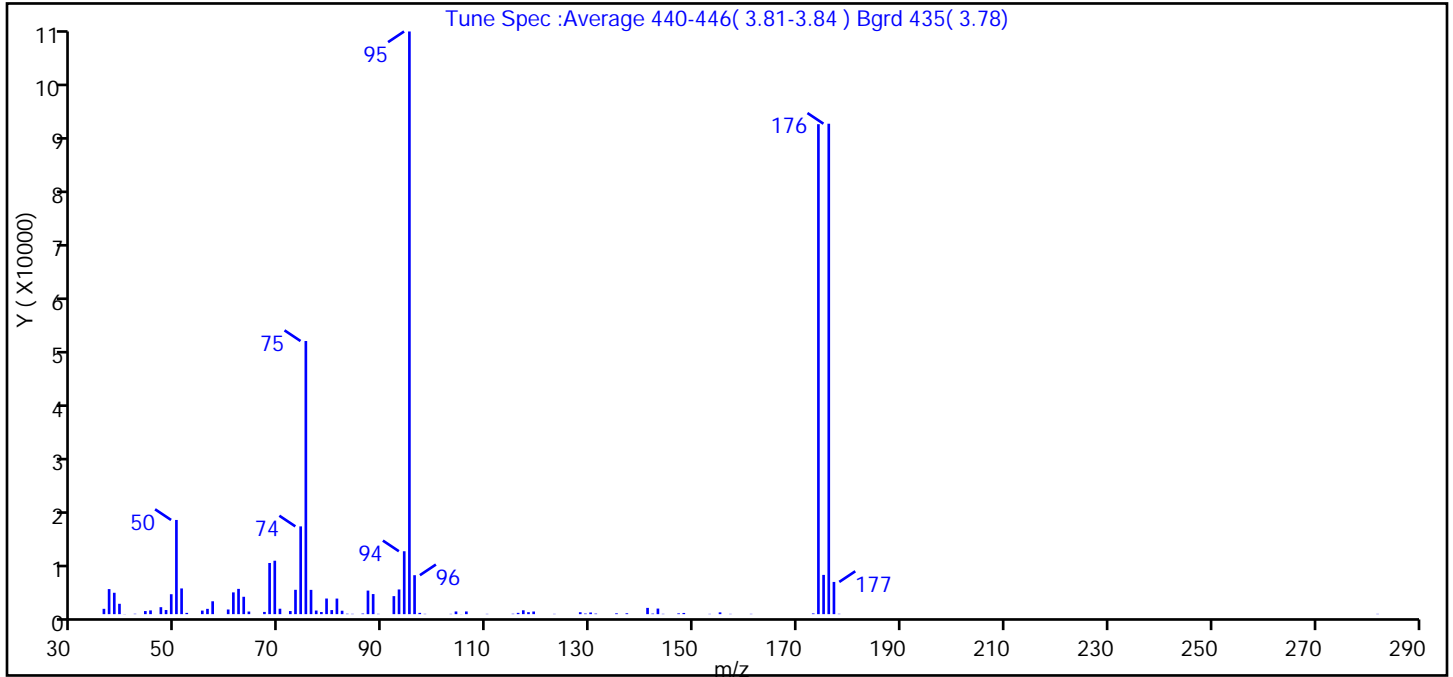
Reagents:

BFB_WRK_00067 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6361.D
 Injection Date: 09-Jan-2018 23:52:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: AS ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	84.1
175	5 to 9% of m/z 174	6.7 (8.0)
176	Greater than 95% but less than 101% of m/z 174	84.2 (100.1)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6361.D\S-8260.rslt\spectra.d
Injection Date: 09-Jan-2018 23:52:30
Spectrum: Tune Spec :Average 440-446(3.81-3.84) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	985	64.00	482	89.00	56	130.00	308
37.00	4633	67.00	411	92.00	3332	131.00	102
38.00	3954	68.00	9463	93.00	4568	135.00	152
39.00	1915	69.00	9884	94.00	11634	137.00	163
40.00	26	70.00	1005	95.00	107792	141.00	1157
42.00	68	72.00	571	96.00	7204	142.00	102
44.00	570	73.00	4502	97.00	238	143.00	1031
45.00	693	74.00	16236	98.00	55	144.00	58
47.00	1288	75.00	50528	103.00	50	147.00	145
48.00	762	76.00	4491	104.00	496	148.00	221
49.00	3687	77.00	665	105.00	16	153.00	51
50.00	17424	78.00	394	106.00	496	155.00	328
51.00	4756	79.00	2889	110.00	51	157.00	51
52.00	234	80.00	753	115.00	73	161.00	54
55.00	657	81.00	2881	116.00	238	173.00	129
56.00	980	82.00	634	117.00	712	174.00	90640
57.00	2381	83.00	76	118.00	363	175.00	7262
60.00	862	84.00	57	119.00	487	176.00	90728
61.00	4025	86.00	109	123.00	52	177.00	5959
62.00	4674	87.00	4357	128.00	355	178.00	64
63.00	3212	88.00	3715	129.00	112	282.00	50

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6546.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 15-Jan-2018 08:38:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068570-002
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 15-Jan-2018 08:48:15 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK026

First Level Reviewer: moffata Date: 15-Jan-2018 08:48:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.838	3.838	0.000	0	334039	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

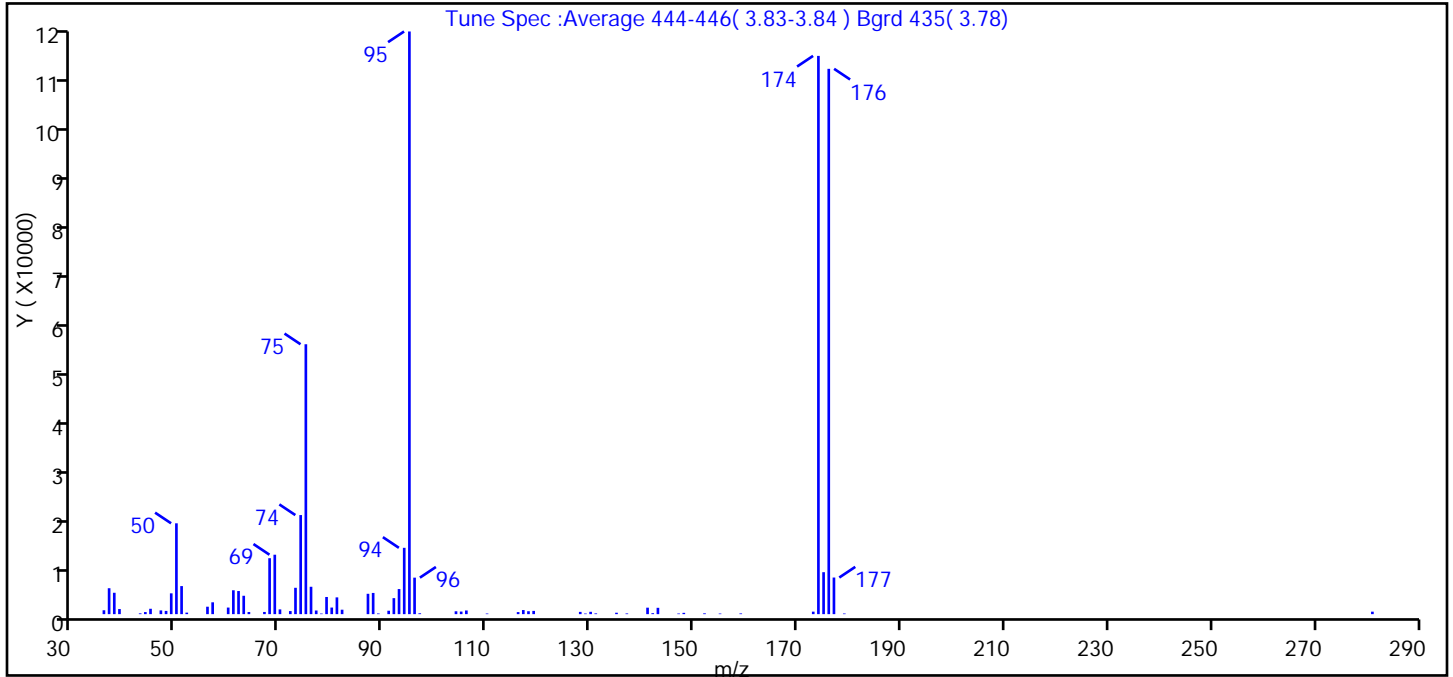
Reagents:

BFB_WRK_00067 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6546.D
 Injection Date: 15-Jan-2018 08:38:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	95.8
175	5 to 9% of m/z 174	7.2 (7.5)
176	Greater than 95% but less than 101% of m/z 174	93.6 (97.7)
177	5 to 9% of m/z 176	6.3 (6.7)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6546.D\S-8260.rslt\spectra.d
Injection Date: 15-Jan-2018 08:38:30
Spectrum: Tune Spec :Average 444-446(3.83-3.84) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	787	64.00	430	91.00	692	135.00	288
37.00	5257	67.00	444	92.00	3248	137.00	143
38.00	4335	68.00	11345	93.00	5087	141.00	1311
39.00	1033	69.00	12054	94.00	13452	142.00	198
43.00	159	70.00	962	95.00	118184	143.00	1284
44.00	420	72.00	620	96.00	7402	147.00	128
45.00	1090	73.00	5344	97.00	176	148.00	264
47.00	758	74.00	20096	104.00	584	152.00	164
48.00	656	75.00	54744	105.00	524	155.00	123
49.00	4221	76.00	5552	106.00	742	159.00	147
50.00	18424	77.00	737	110.00	125	173.00	507
51.00	5691	78.00	120	116.00	416	174.00	113232
52.00	309	79.00	3481	117.00	831	175.00	8509
56.00	1508	80.00	1337	118.00	591	176.00	110608
57.00	2400	81.00	3401	119.00	660	177.00	7426
60.00	1335	82.00	900	128.00	460	179.00	129
61.00	4842	87.00	4129	129.00	126	281.00	502
62.00	4687	88.00	4300	130.00	476		
63.00	3727	89.00	135	131.00	154		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-395763/7
 Matrix: Water Lab File ID: S6551.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 10:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-395763/7
 Matrix: Water Lab File ID: S6551.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 10:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-395763/7
 Matrix: Water Lab File ID: S6551.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 10:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6551.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 15-Jan-2018 10:52:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0068570-007
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 15-Jan-2018 11:17:55 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: moffata

Date: 15-Jan-2018 11:17:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	131408	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	84	282366	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	92	321091	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	58	182482	25.0	27.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.266	0.001	0	102888	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	733350	25.0	26.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	96	265258	25.0	27.0	
10 Dichlorodifluoromethane	85		1.294					ND	
11 Chlorodifluoromethane	51		1.324					ND	
12 Chloromethane	50		1.482					ND	
13 Vinyl chloride	62		1.568					ND	
151 Butadiene	54		1.592					ND	
14 Bromomethane	94		1.884					ND	
15 Chloroethane	64		1.981					ND	
16 Dichlorofluoromethane	67		2.206					ND	
17 Trichlorofluoromethane	101		2.218					ND	
18 Ethyl ether	59		2.529					ND	
148 Ethanol	45		2.529					ND	
19 Propene oxide	58		2.614					ND	
20 Acrolein	56		2.705					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.730					ND	
22 1,1-Dichloroethene	96		2.748					ND	
23 Acetone	43		2.869					ND	
25 Iodomethane	142		2.906					ND	
26 Carbon disulfide	76		2.949					ND	
24 Isopropyl alcohol	45		3.058					ND	
27 Methyl acetate	43		3.174					ND	
29 Acetonitrile	40		3.180					ND	
30 Methylene Chloride	84		3.265					ND	
31 2-Methyl-2-propanol	59		3.429					ND	
32 Methyl tert-butyl ether	73		3.490					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.502					ND	
33 Acrylonitrile	53		3.551					ND	
35 Hexane	57		3.709					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.928					ND	
36 Isopropyl ether	45		3.946					ND	
37 Vinyl acetate	43		3.983					ND	
40 2-Chloro-1,3-butadiene	53		3.989					ND	
38 1,1-Dimethoxyethane	75		4.025					ND	
41 Tert-butyl ethyl ether	59		4.293					ND	
44 2,2-Dichloropropane	77		4.451					ND	
45 cis-1,2-Dichloroethene	96		4.482					ND	
43 2-Butanone (MEK)	43		4.518					ND	
42 Ethyl acetate	43		4.555					ND	
46 Propionitrile	54		4.622					ND	
48 Chlorobromomethane	128		4.719					ND	
47 Methacrylonitrile	41		4.731					ND	
49 Tetrahydrofuran	42		4.749					ND	
50 Chloroform	83		4.798					ND	
51 1,1,1-Trichloroethane	97		4.914					ND	
52 Cyclohexane	56		4.926					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		5.060					ND	
54 1,1-Dichloropropene	75		5.072					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
53 Isobutyl alcohol	43		5.272					ND	
57 Benzene	78		5.272					ND	
152 Isooctane	57		5.279					ND	
58 1,2-Dichloroethane	62		5.333					ND	
147 t-Amyl alcohol	59		5.346					ND	
56 Tert-amyl methyl ether	73		5.358					ND	
59 n-Heptane	43		5.461					ND	
1 1,4-Difluorobenzene	114		5.656					ND	
62 Trichloroethene	95		5.887					ND	
60 n-Butanol	56		5.905					ND	
142 Ethyl acrylate	55		6.009					ND	
64 Methylcyclohexane	83		6.015					ND	
65 1,2-Dichloropropane	63		6.124					ND	
63 Methyl methacrylate	41		6.228					ND	
67 Dibromomethane	93		6.258					ND	
66 1,4-Dioxane	88		6.276					ND	
68 Dichlorobromomethane	83		6.410					ND	
70 2-Nitropropane	43		6.660					ND	
69 2-Chloroethyl vinyl ether	63		6.696					ND	
71 Epichlorohydrin	57		6.787					ND	
72 cis-1,3-Dichloropropene	75		6.830					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.976					ND	
74 Toluene	92		7.128					ND	
76 2-Methylthiophene	97		7.262					ND	
77 trans-1,3-Dichloropropene	75		7.396					ND	
78 3-Methylthiophene	97		7.426					ND	
75 Ethyl methacrylate	69		7.450					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
79 1,1,2-Trichloroethane	83		7.590					ND	
81 Tetrachloroethene	166		7.663					ND	
82 1,3-Dichloropropane	76		7.748					ND	
80 2-Hexanone	43		7.815					ND	
155 n-Butyl acetate	43		7.931					ND	
83 Chlorodibromomethane	129		7.986					ND	
84 Ethylene Dibromide	107		8.095					ND	
146 1-Chlorohexane	55		8.521					ND	
85 3-Chlorobenzotrifluoride	180		8.546					ND	
87 Chlorobenzene	112		8.576					ND	
86 4-Chlorobenzotrifluoride	180		8.606					ND	
88 Ethylbenzene	91		8.667					ND	
89 1,1,1,2-Tetrachloroethane	131		8.673					ND	
90 m-Xylene & p-Xylene	106		8.789					ND	
91 o-Xylene	106		9.221					ND	
92 Styrene	104		9.245					ND	
95 Bromoform	173		9.488					ND	
93 2-Chlorobenzotrifluoride	180		9.519					ND	
94 Isopropylbenzene	105		9.598					ND	
96 Cyclohexanone	55		9.762					ND	
101 Bromobenzene	156		9.939					ND	
97 1,1,2,2-Tetrachloroethane	83		9.987					ND	
100 1,2,3-Trichloropropane	110		10.018					ND	
99 N-Propylbenzene	91		10.024					ND	
98 trans-1,4-Dichloro-2-buten	53		10.030					ND	
103 2-Chlorotoluene	126		10.121					ND	
104 3-Chlorotoluene	126		10.188					ND	
102 1,3,5-Trimethylbenzene	105		10.200					ND	
105 4-Chlorotoluene	126		10.237					ND	
106 tert-Butylbenzene	134		10.510					ND	
107 1,2,4-Trimethylbenzene	105		10.565					ND	
108 Pentachloroethane	167		10.565					ND	
109 sec-Butylbenzene	105		10.723					ND	
111 1,3-Dichlorobenzene	146		10.857					ND	
110 4-Isopropyltoluene	119		10.863					ND	
114 Dicyclopentadiene	66		10.924					ND	
113 1,4-Dichlorobenzene	146		10.942					ND	
112 1,2,3-Trimethylbenzene	105		10.973					ND	
150 Benzyl chloride	126		11.082					ND	
116 1,2-Dichlorobenzene	146		11.289					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.013					ND	
118 1,3,5-Trichlorobenzene	180		12.153					ND	
119 1,2,4-Trichlorobenzene	180		12.688					ND	
120 Hexachlorobutadiene	225		12.804					ND	
121 Naphthalene	128		12.901					ND	
122 1,2,3-Trichlorobenzene	180		13.102					ND	
149 2-Methylnaphthalene	142		13.814					ND	
145 Ethylene oxide TIC	1		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Hexachloroethane	117		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	

Reagents:

S_8260_IS_00275	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6551.D

Injection Date: 15-Jan-2018 10:52:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

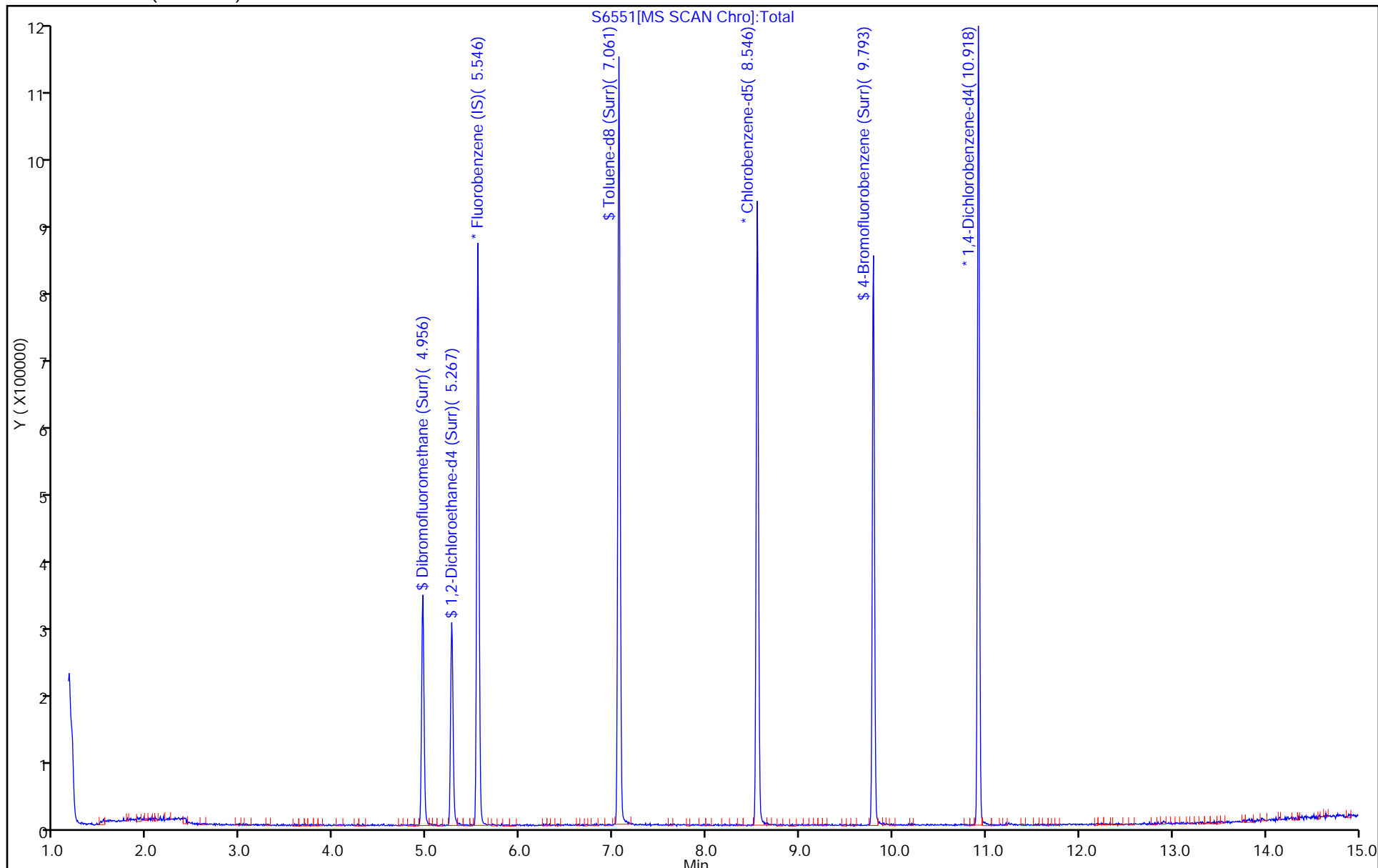
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-395763/5
 Matrix: Water Lab File ID: S6549.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 10:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.9		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	32.0		1.0	0.31
75-34-3	1,1-Dichloroethane	26.7		1.0	0.38
75-35-4	1,1-Dichloroethene	28.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	22.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.1		1.0	0.79
107-06-2	1,2-Dichloroethane	25.0		1.0	0.21
78-87-5	1,2-Dichloropropane	26.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.7		1.0	0.84
78-93-3	2-Butanone (MEK)	139		10	1.3
591-78-6	2-Hexanone	120		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	122		5.0	2.1
67-64-1	Acetone	133		10	3.0
71-43-2	Benzene	26.4		1.0	0.41
75-27-4	Bromodichloromethane	26.9		1.0	0.39
75-25-2	Bromoform	28.5		1.0	0.26
74-83-9	Bromomethane	25.2		1.0	0.69
75-15-0	Carbon disulfide	26.3		1.0	0.19
56-23-5	Carbon tetrachloride	27.5		1.0	0.27
108-90-7	Chlorobenzene	25.5		1.0	0.75
124-48-1	Dibromochloromethane	26.2		1.0	0.32
75-00-3	Chloroethane	26.5		1.0	0.32
67-66-3	Chloroform	26.2		1.0	0.34
74-87-3	Chloromethane	26.3		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.3		1.0	0.36
110-82-7	Cyclohexane	28.2		1.0	0.18
75-71-8	Dichlorodifluoromethane	29.8		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
106-93-4	1,2-Dibromoethane	25.4		1.0	0.73
98-82-8	Isopropylbenzene	24.1		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-395763/5
 Matrix: Water Lab File ID: S6549.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/15/2018 10:06
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	52.3		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.3		1.0	0.16
108-87-2	Methylcyclohexane	28.8		1.0	0.16
75-09-2	Methylene Chloride	24.1		1.0	0.44
100-42-5	Styrene	25.7		1.0	0.73
127-18-4	Tetrachloroethene	27.1		1.0	0.36
108-88-3	Toluene	24.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.5		1.0	0.37
79-01-6	Trichloroethene	25.6		1.0	0.46
75-69-4	Trichlorofluoromethane	28.5		1.0	0.88
75-01-4	Vinyl chloride	27.6		1.0	0.90
1330-20-7	Xylenes, Total	51.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6549.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 15-Jan-2018 10:06:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0068570-005
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 15-Jan-2018 13:51:48 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: moffata

Date: 15-Jan-2018 13:51:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	136372	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	85	305589	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	49	351999	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	83	189405	25.0	27.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.266	0.001	0	110191	25.0	26.3	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	90	772364	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	96	282574	25.0	26.6	
10 Dichlorodifluoromethane	85	1.300	1.294	0.006	86	217256	25.0	29.8	
12 Chloromethane	50	1.476	1.482	-0.006	99	197833	25.0	26.3	
13 Vinyl chloride	62	1.568	1.568	0.000	79	218160	25.0	27.6	
151 Butadiene	54	1.592	1.592	0.000	92	198393	25.0	25.2	
14 Bromomethane	94	1.896	1.884	0.012	89	149681	25.0	25.2	
15 Chloroethane	64	1.981	1.981	0.000	98	130786	25.0	26.5	
16 Dichlorofluoromethane	67	2.207	2.206	0.000	98	303055	25.0	25.3	
17 Trichlorofluoromethane	101	2.225	2.218	0.007	87	269895	25.0	28.5	
18 Ethyl ether	59	2.529	2.529	0.000	89	149463	25.0	26.6	
20 Acrolein	56	2.705	2.705	0.000	94	159518	125.0	119.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.730	0.006	88	174376	25.0	32.0	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	96	159806	25.0	28.0	
23 Acetone	43	2.870	2.869	0.001	99	348570	125.0	132.8	
25 Iodomethane	142	2.912	2.906	0.006	97	305364	25.0	28.7	
26 Carbon disulfide	76	2.949	2.949	0.001	98	511745	25.0	26.3	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	87	233634	25.0	26.3	
27 Methyl acetate	43	3.174	3.174	0.000	94	247550	50.0	52.3	
30 Methylene Chloride	84	3.271	3.265	0.006	84	180630	25.0	24.1	
31 2-Methyl-2-propanol	59	3.441	3.429	0.012	98	190456	250.0	318.3	
32 Methyl tert-butyl ether	73	3.496	3.490	0.006	85	560156	25.0	25.3	
34 trans-1,2-Dichloroethene	96	3.508	3.502	0.006	88	186448	25.0	26.8	
33 Acrylonitrile	53	3.551	3.551	0.000	98	690697	250.0	277.4	
35 Hexane	57	3.715	3.709	0.006	87	262627	25.0	28.5	
39 1,1-Dichloroethane	63	3.928	3.928	0.000	84	291515	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.983	3.983	0.000	97	710621	50.0	56.6	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	88	239565	25.0	26.4	
45 cis-1,2-Dichloroethene	96	4.488	4.482	0.006	75	210121	25.0	26.4	
43 2-Butanone (MEK)	43	4.518	4.518	0.000	93	455744	125.0	138.7	
48 Chlorobromomethane	128	4.719	4.719	0.000	85	109552	25.0	27.2	
49 Tetrahydrofuran	42	4.749	4.749	0.000	85	110472	50.0	51.4	
50 Chloroform	83	4.798	4.798	0.000	92	311734	25.0	26.2	
51 1,1,1-Trichloroethane	97	4.920	4.914	0.006	91	266766	25.0	26.0	
52 Cyclohexane	56	4.932	4.926	0.006	82	268112	25.0	28.2	
55 Carbon tetrachloride	117	5.060	5.060	0.000	95	254649	25.0	27.5	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	95	246598	25.0	26.9	
53 Isobutyl alcohol	43	5.279	5.272	0.007	47	249943	625.0	756.9	
57 Benzene	78	5.279	5.272	0.007	96	745076	25.0	26.4	
58 1,2-Dichloroethane	62	5.340	5.333	0.007	82	231575	25.0	25.0	
59 n-Heptane	43	5.461	5.461	0.000	91	255688	25.0	27.7	
62 Trichloroethene	95	5.893	5.887	0.006	93	190003	25.0	25.6	
64 Methylcyclohexane	83	6.015	6.015	0.000	86	343935	25.0	28.8	
65 1,2-Dichloropropane	63	6.124	6.124	0.000	94	170781	25.0	26.5	
67 Dibromomethane	93	6.258	6.258	0.000	87	118998	25.0	26.1	
66 1,4-Dioxane	88	6.282	6.282	0.006	53	50383	500.0	498.7	M
68 Dichlorobromomethane	83	6.416	6.410	0.006	98	244561	25.0	26.9	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	112478	25.0	26.1	
72 cis-1,3-Dichloropropene	75	6.830	6.830	0.000	87	291612	25.0	27.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.976	0.000	94	877072	125.0	121.7	
74 Toluene	92	7.128	7.128	0.000	95	494088	25.0	24.4	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	87	271017	25.0	25.5	
75 Ethyl methacrylate	69	7.451	7.450	0.001	65	262490	25.0	24.5	
79 1,1,2-Trichloroethane	83	7.584	7.590	-0.006	92	143318	25.0	24.9	
81 Tetrachloroethene	166	7.663	7.663	0.000	92	252565	25.0	27.1	
82 1,3-Dichloropropane	76	7.749	7.749	0.001	87	294381	25.0	24.4	
80 2-Hexanone	43	7.816	7.815	0.001	91	659059	125.0	119.7	
83 Chlorodibromomethane	129	7.986	7.986	0.000	87	202456	25.0	26.2	
84 Ethylene Dibromide	107	8.095	8.095	0.000	99	189126	25.0	25.4	
87 Chlorobenzene	112	8.576	8.576	0.000	96	578421	25.0	25.5	
88 Ethylbenzene	91	8.667	8.667	0.000	36	939022	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	46	208721	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	384854	25.0	25.0	
91 o-Xylene	106	9.215	9.221	-0.006	96	376508	25.0	26.1	
92 Styrene	104	9.245	9.245	0.000	95	636074	25.0	25.7	
95 Bromoform	173	9.489	9.488	0.001	96	146470	25.0	28.5	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	977405	25.0	24.1	
101 Bromobenzene	156	9.939	9.939	0.000	88	272140	25.0	24.6	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	80	237245	25.0	23.3	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	48	84663	25.0	23.3	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	1121745	25.0	24.4	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	37	54388	25.0	26.8	
103 2-Chlorotoluene	126	10.121	10.121	0.000	97	245068	25.0	24.4	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	93	810247	25.0	23.6	
105 4-Chlorotoluene	126	10.237	10.237	0.000	95	255759	25.0	25.0	
106 tert-Butylbenzene	134	10.511	10.510	0.001	89	198513	25.0	24.2	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	44	852329	25.0	24.3	
109 sec-Butylbenzene	105	10.724	10.723	0.001	92	1077053	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	73	521527	25.0	24.9	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	947905	25.0	24.8	
113 1,4-Dichlorobenzene	146	10.943	10.942	0.000	95	538331	25.0	24.7	
115 n-Butylbenzene	91	11.241	11.241	0.001	94	803911	25.0	24.3	
116 1,2-Dichlorobenzene	146	11.295	11.289	0.006	93	505404	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	83	46359	25.0	22.5	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	385229	25.0	25.0	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	93	192895	25.0	26.1	
121 Naphthalene	128	12.901	12.901	0.000	96	923290	25.0	23.9	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	94	369769	25.0	25.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00259	Amount Added: 12.50	Units: uL	
8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
S_8260_IS_00275	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180115-68570.b\S6549.D

Injection Date: 15-Jan-2018 10:06:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

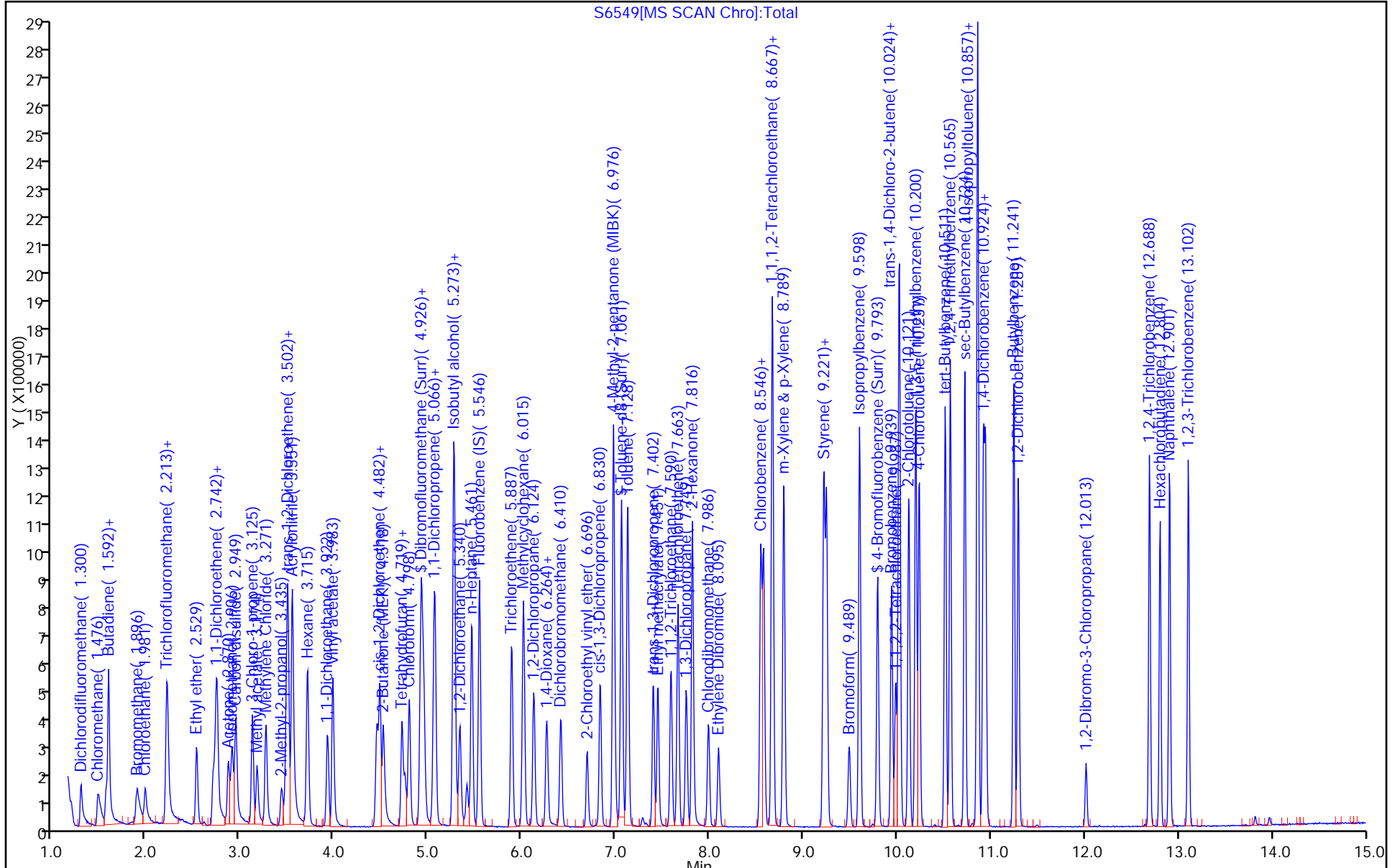
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-129994-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 01/09/2018 23:52Analysis Batch Number: 395114End Date: 01/10/2018 09:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-395114/2		01/09/2018 23:52	1	S6361.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/4		01/10/2018 00:42	1	S6363.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/5		01/10/2018 01:05	1	S6364.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/6		01/10/2018 01:28	1	S6365.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/7		01/10/2018 01:51	1	S6366.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/8		01/10/2018 02:15	1	S6367.D	ZB-624 (20) 0.18 (mm)
ICIS 480-395114/9		01/10/2018 02:38	1	S6368.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/10		01/10/2018 03:01	1	S6369.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/11		01/10/2018 03:24	1	S6370.D	ZB-624 (20) 0.18 (mm)
MDLV 480-395114/13		01/10/2018 04:11	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/16		01/10/2018 05:21	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/17		01/10/2018 05:44	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/18		01/10/2018 06:07	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/19		01/10/2018 06:31	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/20		01/10/2018 06:54	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/21		01/10/2018 07:17	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/22		01/10/2018 07:40	1		ZB-624 (20) 0.18 (mm)
MDLV 480-395114/24		01/10/2018 08:27	1		ZB-624 (20) 0.18 (mm)
ICV 480-395114/25		01/10/2018 08:50	1		ZB-624 (20) 0.18 (mm)
ICV 480-395114/26		01/10/2018 09:13	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1

SDG No.: _____

Instrument ID: HP5973S Start Date: 01/15/2018 08:38

Analysis Batch Number: 395763 End Date: 01/15/2018 22:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-395763/2		01/15/2018 08:38	1	S6546.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-395763/3		01/15/2018 09:19	1	S6547.D	ZB-624 (20) 0.18 (mm)
CCV 480-395763/4		01/15/2018 09:42	1		ZB-624 (20) 0.18 (mm)
LCS 480-395763/5		01/15/2018 10:06	1	S6549.D	ZB-624 (20) 0.18 (mm)
MB 480-395763/7		01/15/2018 10:52	1	S6551.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 11:40	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 12:03	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 12:27	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 12:50	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 13:13	1		ZB-624 (20) 0.18 (mm)
480-129994-1		01/15/2018 13:36	1	S6557.D	ZB-624 (20) 0.18 (mm)
480-129994-2		01/15/2018 14:00	1	S6558.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 14:23	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 14:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 15:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 15:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 15:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 16:19	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 16:42	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 17:05	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 17:29	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 17:52	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 18:15	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 18:38	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 19:25	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 19:48	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 20:11	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 20:34	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 21:21	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 21:44	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 22:07	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		01/15/2018 22:31	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1

SDG No.: _____

Batch Number: 395763 Batch Start Date: 01/15/18 08:38 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00118	BFB_WRK 00067	GAS CORP mix 00259
BFB 480-395763/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-395763/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-395763/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-395763/7		8260C		5 mL	5 mL				
480-129994-A-1	ML-7S	8260C	T	5 mL	5 mL	<2 SU			
480-129994-A-2	TRIP BLANK	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00275	S_8260_Surr 00244	AnalysisComment			
BFB 480-395763/2		8260C							
CCVIS 480-395763/3		8260C		1 uL	1 uL				
LCS 480-395763/5		8260C		1 uL	1 uL				
MB 480-395763/7		8260C		1 uL	1 uL				
480-129994-A-1	ML-7S	8260C	T	1 uL	1 uL	headspace decanted			
480-129994-A-2	TRIP BLANK	8260C	T	1 uL	1 uL	headspace			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Amherst, NY 14228
 Phone: 716.691.2600 Fax: 716.691.7991

Regulatory Program: DW NPDES RCRA Other:

Client Contact

Project Manager: Pan Nall

Site Contact: Ann Aquilina

Date: 1/18/18

COC No: _____

Company Name: LaBella Associates

Tel/Fax: _____

Lab Contact: Meissa Deya

Carrier: Fed Ex

Sampler: _____

480-129994 COC

Address: 310 State Street

City/State/Zip: Rochester NY 14614

Analysis Turnaround Time

Carrier: _____

For Lab Use Only:

Walk-in Client: _____
 Lab Sampling: _____

Phone: _____

CALENDAR DAYS WORKING DAYS

Carrier: _____

Job / SDG No.: _____

Fax: _____

Project Name: FESL

Carrier: _____

Sample Specific Notes:

Site: _____

Project Name: FESL

Carrier: _____

Sample Specific Notes:

P.O.# 210173

Sample Identification

Sample Date: 1/18/18

Sample Time: 1220

Sample Type (C=Comp, G=Grab): G

Matrix: SW

of Cont: 1

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

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Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

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Sample Date: _____

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Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

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Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

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Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Sample Identification

Sample Date: _____

Sample Time: _____

Sample Type (C=Comp, G=Grab): _____

Matrix: _____

of Cont: _____

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-129994-1

Login Number: 129994
List Number: 1
Creator: Harper, Marcus D

List Source: TestAmerica Buffalo

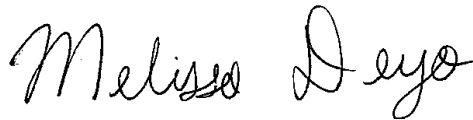
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LA BELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-131737-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
7/3/2018 8:30 AM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
07/03/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

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Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



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**Job Narrative
480-131737-1**

Comments

No additional comments.

Receipt

The samples were received on 2/23/2018 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

Receipt Exceptions

Method(s) 353.2: The following sample(s) was received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

GC/MS VOA

Method(s) 8260C: The following samples was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: LBA-SBW-16 (480-131737-8), (480-131737-F-8 MS) and (480-131737-F-8 MSD). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: LBA-SBW-16 (480-131737-8), (480-131737-F-8 MS) and (480-131737-F-8 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-401359 recovered above the upper control limit for Methylcyclohexane. The sample associated with this CCV was non-detects for the affected analyte; therefore, the data have been reported. The following sample is impacted: LBA-SBW-16 (480-131737-8).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-401359 recovered outside acceptance criteria, low biased, for 2-Hexanone, 4-Methyl-2-pentanone (MIBK), and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated sample was non-detect for these analytes, the data have been reported. The following sample is impacted: LBA-SBW-16 (480-131737-8).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-401359 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The following sample is impacted: LBA-SBW-16 (480-131737-8).

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: ML-7D (480-131737-5). The samples were analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: ML-2S (480-131737-1), ML-2D (480-131737-3) and ML-7D (480-131737-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-401400 recovered above the upper control limit for Cyclohexane, 1,1,2-Trichloro-1,2,2-trifluoroethane and Methylcyclohexane. The sample associated with this CCV was non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: ML-2I (480-131737-2).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-401400 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone (MIBK), 2-Hexanone and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: ML-2I (480-131737-2).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-401400 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The following sample is impacted: ML-2I (480-131737-2).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: ML-2I (480-131737-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-7I (480-131737-4), LBA-SBW-15 (480-131737-6), LBA-SBW-15 (480-131737-6[MS]), LBA-SBW-15 (480-131737-6[MSD]) and DUPE (480-131737-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-2S (480-131737-1), ML-2I (480-131737-2) and ML-2D (480-131737-3). Elevated reporting limits (RLs) are provided.

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-7I (480-131737-4), ML-7D (480-131737-5), LBA-SBW-15 (480-131737-6) and LBA-SBW-16 (480-131737-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) RSK-175: The following samples were diluted due to the abundance of non-target analytes: ML-2S (480-131737-1), ML-2I (480-131737-2), ML-2D (480-131737-3), ML-7I (480-131737-4), ML-7D (480-131737-5), LBA-SBW-15 (480-131737-6) and LBA-SBW-16 (480-131737-8). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: ML-2S (480-131737-1), ML-2I (480-131737-2), ML-2D (480-131737-3) and LBA-SBW-16 (480-131737-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: ML-2S (480-131737-1), ML-2I (480-131737-2), ML-2D (480-131737-3), ML-7I (480-131737-4), ML-7D (480-131737-5), LBA-SBW-15 (480-131737-6) and LBA-SBW-16 (480-131737-8).

Method(s) 353.2: The following samples were received outside of holding time: ML-2S (480-131737-1), ML-7I (480-131737-4), ML-7D (480-131737-5), LBA-SBW-15 (480-131737-6) and LBA-SBW-16 (480-131737-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-131737-1	ML-2S	Water	02/21/18 13:05	02/23/18 10:30
480-131737-2	ML-2I	Water	02/21/18 15:10	02/23/18 10:30
480-131737-3	ML-2D	Water	02/21/18 16:10	02/23/18 10:30
480-131737-4	ML-7I	Water	02/21/18 09:10	02/23/18 10:30
480-131737-5	ML-7D	Water	02/21/18 10:30	02/23/18 10:30
480-131737-6	LBA-SBW-15	Water	02/21/18 11:40	02/23/18 10:30
480-131737-7	DUPE	Water	02/21/18 00:00	02/23/18 10:30
480-131737-8	LBA-SBW-16	Water	02/21/18 14:15	02/23/18 10:30

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2S

Lab Sample ID: 480-131737-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	24		10	4.1	ug/L	10		8260C	Total/NA
Ethylbenzene	17		10	7.4	ug/L	10		8260C	Total/NA
Isopropylbenzene	54		10	7.9	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	56		10	1.6	ug/L	10		8260C	Total/NA
Xylenes, Total	430		20	6.6	ug/L	10		8260C	Total/NA
Chloride	390		5.0	2.8	mg/L	10		9056A	Total/NA
Sulfate	18.2	J	20.0	3.5	mg/L	10		9056A	Total/NA

Client Sample ID: ML-2I

Lab Sample ID: 480-131737-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1000		40	15	ug/L	40		8260C	Total/NA
Benzene	38	J	40	16	ug/L	40		8260C	Total/NA
Chloroethane	38	J	40	13	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	1700		40	32	ug/L	40		8260C	Total/NA
Ethylbenzene	39	J	40	30	ug/L	40		8260C	Total/NA
Methyl tert-butyl ether	20	J	40	6.4	ug/L	40		8260C	Total/NA
Toluene	290		40	20	ug/L	40		8260C	Total/NA
Vinyl chloride	430		40	36	ug/L	40		8260C	Total/NA
Xylenes, Total	210		80	26	ug/L	40		8260C	Total/NA
Ethane	230	J	330	66	ug/L	44		RSK-175	Total/NA
Ethene	980		310	66	ug/L	44		RSK-175	Total/NA
Nitrate	0.031	J	0.050	0.020	mg/L as N	1		353.2	Total/NA
Chloride	425		5.0	2.8	mg/L	10		9056A	Total/NA
Sulfate	11.7	J	20.0	3.5	mg/L	10		9056A	Total/NA

Client Sample ID: ML-2D

Lab Sample ID: 480-131737-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	45		5.0	1.9	ug/L	5		8260C	Total/NA
Benzene	23		5.0	2.1	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	130		5.0	4.1	ug/L	5		8260C	Total/NA
Ethylbenzene	16		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	37		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	51		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	2.0	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	18		5.0	2.6	ug/L	5		8260C	Total/NA
Trichloroethene	2.9	J	5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	83		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	210		10	3.3	ug/L	5		8260C	Total/NA
Chloride	419		5.0	2.8	mg/L	10		9056A	Total/NA
Sulfate	3.6	J	20.0	3.5	mg/L	10		9056A	Total/NA

Client Sample ID: ML-7I

Lab Sample ID: 480-131737-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	130		40	12	ug/L	40		8260C	Total/NA
1,1-Dichloroethane	680		40	15	ug/L	40		8260C	Total/NA
Benzene	38	J	40	16	ug/L	40		8260C	Total/NA
Chloroethane	72		40	13	ug/L	40		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-7I (Continued)

Lab Sample ID: 480-131737-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2900		40	32	ug/L	40		8260C	Total/NA
Methylene Chloride	38	J	40	18	ug/L	40		8260C	Total/NA
Toluene	160		40	20	ug/L	40		8260C	Total/NA
Vinyl chloride	870		40	36	ug/L	40		8260C	Total/NA
Ethane	150	J	330	66	ug/L	44		RSK-175	Total/NA
Ethene	1100		310	66	ug/L	44		RSK-175	Total/NA
Chloride	344		2.5	1.4	mg/L	5		9056A	Total/NA

Client Sample ID: ML-7D

Lab Sample ID: 480-131737-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	120		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	24		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	420		10	3.8	ug/L	10		8260C	Total/NA
2-Butanone (MEK)	61	J	100	13	ug/L	10		8260C	Total/NA
Benzene	25		10	4.1	ug/L	10		8260C	Total/NA
Chloroethane	100		10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	20		10	8.1	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	5.7	J	10	1.6	ug/L	10		8260C	Total/NA
Toluene	17		10	5.1	ug/L	10		8260C	Total/NA
Trichloroethene	9.8	J	10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	19		10	9.0	ug/L	10		8260C	Total/NA
Ethane	110	J	330	66	ug/L	44		RSK-175	Total/NA
Ethene	1300		310	66	ug/L	44		RSK-175	Total/NA
Nitrate	0.038	J H	0.050	0.020	mg/L as N	1		353.2	Total/NA
Chloride	428		5.0	2.8	mg/L	10		9056A	Total/NA

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-131737-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	9.4		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	15	J	50	6.6	ug/L	5		8260C	Total/NA
Benzene	8.6		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	110		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	10		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	2.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	6.9		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	8.1		5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride	13		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	8.7	J	10	3.3	ug/L	5		8260C	Total/NA
Chloride	738		5.0	2.8	mg/L	10		9056A	Total/NA
Sulfate	90.6		20.0	3.5	mg/L	10		9056A	Total/NA
Sulfide	2.0		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 480-131737-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	8.7		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	16	J	50	6.6	ug/L	5		8260C	Total/NA
Benzene	9.1		5.0	2.1	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: DUPE (Continued)

Lab Sample ID: 480-131737-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	120		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	11		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	2.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	7.0		5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	8.3		5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride	14		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	8.4	J	10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	29		10	3.8	ug/L	10		8260C	Total/NA
Benzene	21		10	4.1	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	74		10	8.1	ug/L	10		8260C	Total/NA
Ethylbenzene	17		10	7.4	ug/L	10		8260C	Total/NA
Isopropylbenzene	37		10	7.9	ug/L	10		8260C	Total/NA
Methyl tert-butyl ether	42		10	1.6	ug/L	10		8260C	Total/NA
Toluene	15		10	5.1	ug/L	10		8260C	Total/NA
Vinyl chloride	47		10	9.0	ug/L	10		8260C	Total/NA
Xylenes, Total	250		20	6.6	ug/L	10		8260C	Total/NA
Ethene	100	J	310	66	ug/L	44		RSK-175	Total/NA
Chloride	344		5.0	2.8	mg/L	10		9056A	Total/NA
Sulfate	4.1	J	20.0	3.5	mg/L	10		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9056A	Anions, Ion Chromatography	SW846	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2S
Date Collected: 02/21/18 13:05
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			02/25/18 14:35	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			02/25/18 14:35	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/25/18 14:35	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			02/25/18 14:35	10
1,1-Dichloroethane	ND		10	3.8	ug/L			02/25/18 14:35	10
1,1-Dichloroethene	ND		10	2.9	ug/L			02/25/18 14:35	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/25/18 14:35	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/25/18 14:35	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/25/18 14:35	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/25/18 14:35	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/25/18 14:35	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/25/18 14:35	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/25/18 14:35	10
2-Butanone (MEK)	ND		100	13	ug/L			02/25/18 14:35	10
2-Hexanone	ND		50	12	ug/L			02/25/18 14:35	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/25/18 14:35	10
Acetone	ND		100	30	ug/L			02/25/18 14:35	10
Benzene	24		10	4.1	ug/L			02/25/18 14:35	10
Bromodichloromethane	ND		10	3.9	ug/L			02/25/18 14:35	10
Bromoform	ND		10	2.6	ug/L			02/25/18 14:35	10
Bromomethane	ND		10	6.9	ug/L			02/25/18 14:35	10
Carbon disulfide	ND		10	1.9	ug/L			02/25/18 14:35	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/25/18 14:35	10
Chlorobenzene	ND		10	7.5	ug/L			02/25/18 14:35	10
Dibromochloromethane	ND		10	3.2	ug/L			02/25/18 14:35	10
Chloroethane	ND		10	3.2	ug/L			02/25/18 14:35	10
Chloroform	ND		10	3.4	ug/L			02/25/18 14:35	10
Chloromethane	ND		10	3.5	ug/L			02/25/18 14:35	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			02/25/18 14:35	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/25/18 14:35	10
Cyclohexane	ND		10	1.8	ug/L			02/25/18 14:35	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/25/18 14:35	10
Ethylbenzene	17		10	7.4	ug/L			02/25/18 14:35	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/25/18 14:35	10
Isopropylbenzene	54		10	7.9	ug/L			02/25/18 14:35	10
Methyl acetate	ND		25	13	ug/L			02/25/18 14:35	10
Methyl tert-butyl ether	56		10	1.6	ug/L			02/25/18 14:35	10
Methylcyclohexane	ND		10	1.6	ug/L			02/25/18 14:35	10
Methylene Chloride	ND		10	4.4	ug/L			02/25/18 14:35	10
Styrene	ND		10	7.3	ug/L			02/25/18 14:35	10
Tetrachloroethene	ND		10	3.6	ug/L			02/25/18 14:35	10
Toluene	ND		10	5.1	ug/L			02/25/18 14:35	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			02/25/18 14:35	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/25/18 14:35	10
Trichloroethene	ND		10	4.6	ug/L			02/25/18 14:35	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/25/18 14:35	10
Vinyl chloride	ND		10	9.0	ug/L			02/25/18 14:35	10
Xylenes, Total	430		20	6.6	ug/L			02/25/18 14:35	10

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2S

Lab Sample ID: 480-131737-1

Date Collected: 02/21/18 13:05

Matrix: Water

Date Received: 02/23/18 10:30

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,2,3-trimethyl-	33	T J N	ug/L		10.07	526-73-8		02/25/18 14:35	10
Benzene, 1,3,5-trimethyl-	150	T J N	ug/L		10.44	108-67-8		02/25/18 14:35	10
Benzene, 1,2,4-trimethyl-	93	T J N	ug/L		10.85	95-63-6		02/25/18 14:35	10
Unknown	28	T J	ug/L		11.04			02/25/18 14:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		02/25/18 14:35	10
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/25/18 14:35	10
4-Bromofluorobenzene (Surr)	100		73 - 120		02/25/18 14:35	10
Dibromofluoromethane (Surr)	97		75 - 123		02/25/18 14:35	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		330	66	ug/L			02/27/18 09:09	44
Ethene	ND		310	66	ug/L			02/27/18 09:09	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			02/23/18 17:50	1
Nitrite	ND	H	0.050	0.020	mg/L as N			02/23/18 17:48	1
Chloride	390		5.0	2.8	mg/L			02/28/18 00:41	10
Sulfate	18.2	J	20.0	3.5	mg/L			02/28/18 00:41	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Client Sample ID: ML-2I

Lab Sample ID: 480-131737-2

Date Collected: 02/21/18 15:10

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			02/26/18 13:52	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			02/26/18 13:52	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			02/26/18 13:52	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			02/26/18 13:52	40
1,1-Dichloroethane	1000		40	15	ug/L			02/26/18 13:52	40
1,1-Dichloroethene	ND		40	12	ug/L			02/26/18 13:52	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			02/26/18 13:52	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			02/26/18 13:52	40
1,2-Dichlorobenzene	ND		40	32	ug/L			02/26/18 13:52	40
1,2-Dichloroethane	ND		40	8.4	ug/L			02/26/18 13:52	40
1,2-Dichloropropane	ND		40	29	ug/L			02/26/18 13:52	40
1,3-Dichlorobenzene	ND		40	31	ug/L			02/26/18 13:52	40
1,4-Dichlorobenzene	ND		40	34	ug/L			02/26/18 13:52	40
2-Butanone (MEK)	ND		400	53	ug/L			02/26/18 13:52	40
2-Hexanone	ND		200	50	ug/L			02/26/18 13:52	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			02/26/18 13:52	40
Acetone	ND		400	120	ug/L			02/26/18 13:52	40
Benzene	38	J	40	16	ug/L			02/26/18 13:52	40
Bromodichloromethane	ND		40	16	ug/L			02/26/18 13:52	40
Bromoform	ND		40	10	ug/L			02/26/18 13:52	40

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2I
Date Collected: 02/21/18 15:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		40	28	ug/L			02/26/18 13:52	40
Carbon disulfide	ND		40	7.6	ug/L			02/26/18 13:52	40
Carbon tetrachloride	ND		40	11	ug/L			02/26/18 13:52	40
Chlorobenzene	ND		40	30	ug/L			02/26/18 13:52	40
Dibromochloromethane	ND		40	13	ug/L			02/26/18 13:52	40
Chloroethane	38	J	40	13	ug/L			02/26/18 13:52	40
Chloroform	ND		40	14	ug/L			02/26/18 13:52	40
Chloromethane	ND		40	14	ug/L			02/26/18 13:52	40
cis-1,2-Dichloroethene	1700		40	32	ug/L			02/26/18 13:52	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			02/26/18 13:52	40
Cyclohexane	ND		40	7.2	ug/L			02/26/18 13:52	40
Dichlorodifluoromethane	ND		40	27	ug/L			02/26/18 13:52	40
Ethylbenzene	39	J	40	30	ug/L			02/26/18 13:52	40
1,2-Dibromoethane	ND		40	29	ug/L			02/26/18 13:52	40
Isopropylbenzene	ND		40	32	ug/L			02/26/18 13:52	40
Methyl acetate	ND	*	100	52	ug/L			02/26/18 13:52	40
Methyl tert-butyl ether	20	J	40	6.4	ug/L			02/26/18 13:52	40
Methylcyclohexane	ND		40	6.4	ug/L			02/26/18 13:52	40
Methylene Chloride	ND		40	18	ug/L			02/26/18 13:52	40
Styrene	ND		40	29	ug/L			02/26/18 13:52	40
Tetrachloroethene	ND		40	14	ug/L			02/26/18 13:52	40
Toluene	290		40	20	ug/L			02/26/18 13:52	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			02/26/18 13:52	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			02/26/18 13:52	40
Trichloroethene	ND		40	18	ug/L			02/26/18 13:52	40
Trichlorofluoromethane	ND		40	35	ug/L			02/26/18 13:52	40
Vinyl chloride	430		40	36	ug/L			02/26/18 13:52	40
Xylenes, Total	210		80	26	ug/L			02/26/18 13:52	40

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	100	T J	ug/L		2.27			02/26/18 13:52	40
Ethane, 1,2-dichloro-1,1,2-trifluoro-	430	T J N	ug/L		2.51	354-23-4		02/26/18 13:52	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		02/26/18 13:52	40
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		02/26/18 13:52	40
4-Bromofluorobenzene (Surr)	103		73 - 120		02/26/18 13:52	40
Dibromofluoromethane (Surr)	106		75 - 123		02/26/18 13:52	40

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	230	J	330	66	ug/L			02/27/18 09:27	44
Ethene	980		310	66	ug/L			02/27/18 09:27	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	0.031	J	0.050	0.020	mg/L as N			02/23/18 15:09	1
Nitrite	ND		0.050	0.020	mg/L as N			02/23/18 15:09	1
Chloride	425		5.0	2.8	mg/L			02/28/18 00:49	10
Sulfate	11.7	J	20.0	3.5	mg/L			02/28/18 00:49	10

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2I
Date Collected: 02/21/18 15:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-2
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Client Sample ID: ML-2D
Date Collected: 02/21/18 16:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			02/25/18 15:22	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			02/25/18 15:22	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			02/25/18 15:22	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			02/25/18 15:22	5
1,1-Dichloroethane	45		5.0	1.9	ug/L			02/25/18 15:22	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			02/25/18 15:22	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			02/25/18 15:22	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			02/25/18 15:22	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			02/25/18 15:22	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			02/25/18 15:22	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			02/25/18 15:22	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			02/25/18 15:22	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			02/25/18 15:22	5
2-Butanone (MEK)	ND		50	6.6	ug/L			02/25/18 15:22	5
2-Hexanone	ND		25	6.2	ug/L			02/25/18 15:22	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			02/25/18 15:22	5
Acetone	ND		50	15	ug/L			02/25/18 15:22	5
Benzene	23		5.0	2.1	ug/L			02/25/18 15:22	5
Bromodichloromethane	ND		5.0	2.0	ug/L			02/25/18 15:22	5
Bromoform	ND		5.0	1.3	ug/L			02/25/18 15:22	5
Bromomethane	ND		5.0	3.5	ug/L			02/25/18 15:22	5
Carbon disulfide	ND		5.0	0.95	ug/L			02/25/18 15:22	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			02/25/18 15:22	5
Chlorobenzene	ND		5.0	3.8	ug/L			02/25/18 15:22	5
Dibromochloromethane	ND		5.0	1.6	ug/L			02/25/18 15:22	5
Chloroethane	ND		5.0	1.6	ug/L			02/25/18 15:22	5
Chloroform	ND		5.0	1.7	ug/L			02/25/18 15:22	5
Chloromethane	ND		5.0	1.8	ug/L			02/25/18 15:22	5
cis-1,2-Dichloroethene	130		5.0	4.1	ug/L			02/25/18 15:22	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			02/25/18 15:22	5
Cyclohexane	ND		5.0	0.90	ug/L			02/25/18 15:22	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			02/25/18 15:22	5
Ethylbenzene	16		5.0	3.7	ug/L			02/25/18 15:22	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			02/25/18 15:22	5
Isopropylbenzene	37		5.0	4.0	ug/L			02/25/18 15:22	5
Methyl acetate	ND		13	6.5	ug/L			02/25/18 15:22	5
Methyl tert-butyl ether	51		5.0	0.80	ug/L			02/25/18 15:22	5
Methylcyclohexane	2.0 J		5.0	0.80	ug/L			02/25/18 15:22	5
Methylene Chloride	ND		5.0	2.2	ug/L			02/25/18 15:22	5
Styrene	ND		5.0	3.7	ug/L			02/25/18 15:22	5
Tetrachloroethene	ND		5.0	1.8	ug/L			02/25/18 15:22	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2D
Date Collected: 02/21/18 16:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	18		5.0	2.6	ug/L			02/25/18 15:22	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			02/25/18 15:22	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			02/25/18 15:22	5
Trichloroethene	2.9	J	5.0	2.3	ug/L			02/25/18 15:22	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			02/25/18 15:22	5
Vinyl chloride	83		5.0	4.5	ug/L			02/25/18 15:22	5
Xylenes, Total	210		10	3.3	ug/L			02/25/18 15:22	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethyl ether	13	T J N	ug/L		2.43	60-29-7		02/25/18 15:22	5
Benzene, 1,3,5-trimethyl-	14	T J N	ug/L		10.07	108-67-8		02/25/18 15:22	5
Benzene, 1,2,3-trimethyl-	70	T J N	ug/L		10.44	526-73-8		02/25/18 15:22	5
Benzene, 1-ethyl-3-methyl-	45	T J N	ug/L		10.85	620-14-4		02/25/18 15:22	5
Unknown	14	T J	ug/L		11.03			02/25/18 15:22	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/25/18 15:22	5
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		02/25/18 15:22	5
4-Bromofluorobenzene (Surr)	96		73 - 120		02/25/18 15:22	5
Dibromofluoromethane (Surr)	99		75 - 123		02/25/18 15:22	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		330	66	ug/L			02/27/18 09:44	44
Ethene	ND		310	66	ug/L			02/27/18 09:44	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.050	0.020	mg/L as N			02/23/18 15:10	1
Nitrite	ND		0.050	0.020	mg/L as N			02/23/18 15:10	1
Chloride	419		5.0	2.8	mg/L			02/28/18 00:57	10
Sulfate	3.6	J	20.0	3.5	mg/L			02/28/18 00:57	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Client Sample ID: ML-71
Date Collected: 02/21/18 09:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			02/28/18 11:37	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			02/28/18 11:37	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			02/28/18 11:37	40
1,1,2-Trichloro-1,2,2-trifluoroethane	130		40	12	ug/L			02/28/18 11:37	40
1,1-Dichloroethane	680		40	15	ug/L			02/28/18 11:37	40
1,1-Dichloroethene	ND		40	12	ug/L			02/28/18 11:37	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			02/28/18 11:37	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			02/28/18 11:37	40
1,2-Dichlorobenzene	ND		40	32	ug/L			02/28/18 11:37	40

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-71
Date Collected: 02/21/18 09:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		40	8.4	ug/L			02/28/18 11:37	40
1,2-Dichloropropane	ND		40	29	ug/L			02/28/18 11:37	40
1,3-Dichlorobenzene	ND		40	31	ug/L			02/28/18 11:37	40
1,4-Dichlorobenzene	ND		40	34	ug/L			02/28/18 11:37	40
2-Butanone (MEK)	ND		400	53	ug/L			02/28/18 11:37	40
2-Hexanone	ND		200	50	ug/L			02/28/18 11:37	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			02/28/18 11:37	40
Acetone	ND		400	120	ug/L			02/28/18 11:37	40
Benzene	38	J	40	16	ug/L			02/28/18 11:37	40
Bromodichloromethane	ND		40	16	ug/L			02/28/18 11:37	40
Bromoform	ND		40	10	ug/L			02/28/18 11:37	40
Bromomethane	ND		40	28	ug/L			02/28/18 11:37	40
Carbon disulfide	ND		40	7.6	ug/L			02/28/18 11:37	40
Carbon tetrachloride	ND		40	11	ug/L			02/28/18 11:37	40
Chlorobenzene	ND		40	30	ug/L			02/28/18 11:37	40
Dibromochloromethane	ND		40	13	ug/L			02/28/18 11:37	40
Chloroethane	72		40	13	ug/L			02/28/18 11:37	40
Chloroform	ND		40	14	ug/L			02/28/18 11:37	40
Chloromethane	ND		40	14	ug/L			02/28/18 11:37	40
cis-1,2-Dichloroethene	2900		40	32	ug/L			02/28/18 11:37	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			02/28/18 11:37	40
Cyclohexane	ND		40	7.2	ug/L			02/28/18 11:37	40
Dichlorodifluoromethane	ND		40	27	ug/L			02/28/18 11:37	40
Ethylbenzene	ND		40	30	ug/L			02/28/18 11:37	40
1,2-Dibromoethane	ND		40	29	ug/L			02/28/18 11:37	40
Isopropylbenzene	ND		40	32	ug/L			02/28/18 11:37	40
Methyl acetate	ND		100	52	ug/L			02/28/18 11:37	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			02/28/18 11:37	40
Methylcyclohexane	ND		40	6.4	ug/L			02/28/18 11:37	40
Methylene Chloride	38	J	40	18	ug/L			02/28/18 11:37	40
Styrene	ND		40	29	ug/L			02/28/18 11:37	40
Tetrachloroethene	ND		40	14	ug/L			02/28/18 11:37	40
Toluene	160		40	20	ug/L			02/28/18 11:37	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			02/28/18 11:37	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			02/28/18 11:37	40
Trichloroethene	ND		40	18	ug/L			02/28/18 11:37	40
Trichlorofluoromethane	ND		40	35	ug/L			02/28/18 11:37	40
Vinyl chloride	870		40	36	ug/L			02/28/18 11:37	40
Xylenes, Total	ND		80	26	ug/L			02/28/18 11:37	40

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethane, 1,2-dichloro-1,1,2-trifluoro-	450	T J N	ug/L		2.52	354-23-4		02/28/18 11:37	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		02/28/18 11:37	40
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		02/28/18 11:37	40
4-Bromofluorobenzene (Surr)	105		73 - 120		02/28/18 11:37	40
Dibromofluoromethane (Surr)	109		75 - 123		02/28/18 11:37	40

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-7I
Date Collected: 02/21/18 09:10
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-4
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	150	J	330	66	ug/L			02/27/18 10:02	44
Ethene	1100		310	66	ug/L			02/27/18 10:02	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			02/23/18 17:50	1
Nitrite	ND	H	0.050	0.020	mg/L as N			02/23/18 17:48	1
Chloride	344		2.5	1.4	mg/L			02/28/18 11:28	5
Sulfate	ND		10.0	1.7	mg/L			02/28/18 11:28	5
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Client Sample ID: ML-7D
Date Collected: 02/21/18 10:30
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	120		10	8.2	ug/L			02/25/18 16:08	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			02/25/18 16:08	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/25/18 16:08	10
1,1,2-Trichloro-1,2,2-trifluoroethane	24		10	3.1	ug/L			02/25/18 16:08	10
1,1-Dichloroethane	420		10	3.8	ug/L			02/25/18 16:08	10
1,1-Dichloroethene	ND		10	2.9	ug/L			02/25/18 16:08	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/25/18 16:08	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/25/18 16:08	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/25/18 16:08	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/25/18 16:08	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/25/18 16:08	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/25/18 16:08	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/25/18 16:08	10
2-Butanone (MEK)	61	J	100	13	ug/L			02/25/18 16:08	10
2-Hexanone	ND		50	12	ug/L			02/25/18 16:08	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/25/18 16:08	10
Acetone	ND		100	30	ug/L			02/25/18 16:08	10
Benzene	25		10	4.1	ug/L			02/25/18 16:08	10
Bromodichloromethane	ND		10	3.9	ug/L			02/25/18 16:08	10
Bromoform	ND		10	2.6	ug/L			02/25/18 16:08	10
Bromomethane	ND		10	6.9	ug/L			02/25/18 16:08	10
Carbon disulfide	ND		10	1.9	ug/L			02/25/18 16:08	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/25/18 16:08	10
Chlorobenzene	ND		10	7.5	ug/L			02/25/18 16:08	10
Dibromochloromethane	ND		10	3.2	ug/L			02/25/18 16:08	10
Chloroethane	100		10	3.2	ug/L			02/25/18 16:08	10
Chloroform	ND		10	3.4	ug/L			02/25/18 16:08	10
Chloromethane	ND		10	3.5	ug/L			02/25/18 16:08	10
cis-1,2-Dichloroethene	20		10	8.1	ug/L			02/25/18 16:08	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/25/18 16:08	10
Cyclohexane	ND		10	1.8	ug/L			02/25/18 16:08	10

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-7D

Lab Sample ID: 480-131737-5

Date Collected: 02/21/18 10:30

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/25/18 16:08	10
Ethylbenzene	ND		10	7.4	ug/L			02/25/18 16:08	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/25/18 16:08	10
Isopropylbenzene	ND		10	7.9	ug/L			02/25/18 16:08	10
Methyl acetate	ND		25	13	ug/L			02/25/18 16:08	10
Methyl tert-butyl ether	5.7	J	10	1.6	ug/L			02/25/18 16:08	10
Methylcyclohexane	ND		10	1.6	ug/L			02/25/18 16:08	10
Methylene Chloride	ND		10	4.4	ug/L			02/25/18 16:08	10
Styrene	ND		10	7.3	ug/L			02/25/18 16:08	10
Tetrachloroethene	ND		10	3.6	ug/L			02/25/18 16:08	10
Toluene	17		10	5.1	ug/L			02/25/18 16:08	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			02/25/18 16:08	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/25/18 16:08	10
Trichloroethene	9.8	J	10	4.6	ug/L			02/25/18 16:08	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/25/18 16:08	10
Vinyl chloride	19		10	9.0	ug/L			02/25/18 16:08	10
Xylenes, Total	ND		20	6.6	ug/L			02/25/18 16:08	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/25/18 16:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		02/25/18 16:08	10
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/25/18 16:08	10
4-Bromofluorobenzene (Surr)	94		73 - 120		02/25/18 16:08	10
Dibromofluoromethane (Surr)	101		75 - 123		02/25/18 16:08	10

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	110	J	330	66	ug/L			02/27/18 10:19	44
Ethene	1300		310	66	ug/L			02/27/18 10:19	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	0.038	J H	0.050	0.020	mg/L as N			02/23/18 17:50	1
Nitrite	ND	H	0.050	0.020	mg/L as N			02/23/18 17:48	1
Chloride	428		5.0	2.8	mg/L			02/28/18 11:36	10
Sulfate	ND		20.0	3.5	mg/L			02/28/18 11:36	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-131737-6

Date Collected: 02/21/18 11:40

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			02/28/18 12:04	5
1,1,1,2-Tetrachloroethane	ND		5.0	1.1	ug/L			02/28/18 12:04	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			02/28/18 12:04	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			02/28/18 12:04	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-131737-6

Date Collected: 02/21/18 11:40

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	9.4		5.0	1.9	ug/L			02/28/18 12:04	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			02/28/18 12:04	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			02/28/18 12:04	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			02/28/18 12:04	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			02/28/18 12:04	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			02/28/18 12:04	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			02/28/18 12:04	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			02/28/18 12:04	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			02/28/18 12:04	5
2-Butanone (MEK)	15	J	50	6.6	ug/L			02/28/18 12:04	5
2-Hexanone	ND		25	6.2	ug/L			02/28/18 12:04	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			02/28/18 12:04	5
Acetone	ND		50	15	ug/L			02/28/18 12:04	5
Benzene	8.6		5.0	2.1	ug/L			02/28/18 12:04	5
Bromodichloromethane	ND		5.0	2.0	ug/L			02/28/18 12:04	5
Bromoform	ND		5.0	1.3	ug/L			02/28/18 12:04	5
Bromomethane	ND		5.0	3.5	ug/L			02/28/18 12:04	5
Carbon disulfide	ND		5.0	0.95	ug/L			02/28/18 12:04	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			02/28/18 12:04	5
Chlorobenzene	ND		5.0	3.8	ug/L			02/28/18 12:04	5
Dibromochloromethane	ND		5.0	1.6	ug/L			02/28/18 12:04	5
Chloroethane	110		5.0	1.6	ug/L			02/28/18 12:04	5
Chloroform	ND		5.0	1.7	ug/L			02/28/18 12:04	5
Chloromethane	ND		5.0	1.8	ug/L			02/28/18 12:04	5
cis-1,2-Dichloroethene	10		5.0	4.1	ug/L			02/28/18 12:04	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			02/28/18 12:04	5
Cyclohexane	ND		5.0	0.90	ug/L			02/28/18 12:04	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			02/28/18 12:04	5
Ethylbenzene	ND		5.0	3.7	ug/L			02/28/18 12:04	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			02/28/18 12:04	5
Isopropylbenzene	ND		5.0	4.0	ug/L			02/28/18 12:04	5
Methyl acetate	ND		13	6.5	ug/L			02/28/18 12:04	5
Methyl tert-butyl ether	2.7	J	5.0	0.80	ug/L			02/28/18 12:04	5
Methylcyclohexane	6.9		5.0	0.80	ug/L			02/28/18 12:04	5
Methylene Chloride	ND		5.0	2.2	ug/L			02/28/18 12:04	5
Styrene	ND		5.0	3.7	ug/L			02/28/18 12:04	5
Tetrachloroethene	ND		5.0	1.8	ug/L			02/28/18 12:04	5
Toluene	8.1		5.0	2.6	ug/L			02/28/18 12:04	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			02/28/18 12:04	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			02/28/18 12:04	5
Trichloroethene	ND		5.0	2.3	ug/L			02/28/18 12:04	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			02/28/18 12:04	5
Vinyl chloride	13		5.0	4.5	ug/L			02/28/18 12:04	5
Xylenes, Total	8.7	J	10	3.3	ug/L			02/28/18 12:04	5

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>02/28/18 12:04</i>	<i>5</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>102</i>		<i>80 - 120</i>					<i>02/28/18 12:04</i>	<i>5</i>

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-131737-6

Date Collected: 02/21/18 11:40

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/28/18 12:04	5
4-Bromofluorobenzene (Surr)	104		73 - 120		02/28/18 12:04	5
Dibromofluoromethane (Surr)	100		75 - 123		02/28/18 12:04	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		330	66	ug/L			02/27/18 10:37	44
Ethene	ND		310	66	ug/L			02/27/18 10:37	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			02/23/18 17:50	1
Nitrite	ND	H	0.050	0.020	mg/L as N			02/23/18 17:48	1
Chloride	738		5.0	2.8	mg/L			02/28/18 11:44	10
Sulfate	90.6		20.0	3.5	mg/L			02/28/18 11:44	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	2.0		1.0	0.67	mg/L			02/26/18 12:45	1

Client Sample ID: DUPE

Lab Sample ID: 480-131737-7

Date Collected: 02/21/18 00:00

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			02/28/18 12:31	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			02/28/18 12:31	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			02/28/18 12:31	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			02/28/18 12:31	5
1,1-Dichloroethane	8.7		5.0	1.9	ug/L			02/28/18 12:31	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			02/28/18 12:31	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			02/28/18 12:31	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			02/28/18 12:31	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			02/28/18 12:31	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			02/28/18 12:31	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			02/28/18 12:31	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			02/28/18 12:31	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			02/28/18 12:31	5
2-Butanone (MEK)	16 J		50	6.6	ug/L			02/28/18 12:31	5
2-Hexanone	ND		25	6.2	ug/L			02/28/18 12:31	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			02/28/18 12:31	5
Acetone	ND		50	15	ug/L			02/28/18 12:31	5
Benzene	9.1		5.0	2.1	ug/L			02/28/18 12:31	5
Bromodichloromethane	ND		5.0	2.0	ug/L			02/28/18 12:31	5
Bromoform	ND		5.0	1.3	ug/L			02/28/18 12:31	5
Bromomethane	ND		5.0	3.5	ug/L			02/28/18 12:31	5
Carbon disulfide	ND		5.0	0.95	ug/L			02/28/18 12:31	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			02/28/18 12:31	5
Chlorobenzene	ND		5.0	3.8	ug/L			02/28/18 12:31	5
Dibromochloromethane	ND		5.0	1.6	ug/L			02/28/18 12:31	5
Chloroethane	120		5.0	1.6	ug/L			02/28/18 12:31	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: DUPE
Date Collected: 02/21/18 00:00
Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		5.0	1.7	ug/L			02/28/18 12:31	5
Chloromethane	ND		5.0	1.8	ug/L			02/28/18 12:31	5
cis-1,2-Dichloroethene	11		5.0	4.1	ug/L			02/28/18 12:31	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			02/28/18 12:31	5
Cyclohexane	ND		5.0	0.90	ug/L			02/28/18 12:31	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			02/28/18 12:31	5
Ethylbenzene	ND		5.0	3.7	ug/L			02/28/18 12:31	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			02/28/18 12:31	5
Isopropylbenzene	ND		5.0	4.0	ug/L			02/28/18 12:31	5
Methyl acetate	ND		13	6.5	ug/L			02/28/18 12:31	5
Methyl tert-butyl ether	2.7	J	5.0	0.80	ug/L			02/28/18 12:31	5
Methylcyclohexane	7.0		5.0	0.80	ug/L			02/28/18 12:31	5
Methylene Chloride	ND		5.0	2.2	ug/L			02/28/18 12:31	5
Styrene	ND		5.0	3.7	ug/L			02/28/18 12:31	5
Tetrachloroethene	ND		5.0	1.8	ug/L			02/28/18 12:31	5
Toluene	8.3		5.0	2.6	ug/L			02/28/18 12:31	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			02/28/18 12:31	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			02/28/18 12:31	5
Trichloroethene	ND		5.0	2.3	ug/L			02/28/18 12:31	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			02/28/18 12:31	5
Vinyl chloride	14		5.0	4.5	ug/L			02/28/18 12:31	5
Xylenes, Total	8.4	J	10	3.3	ug/L			02/28/18 12:31	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/18 12:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		02/28/18 12:31	5
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/28/18 12:31	5
4-Bromofluorobenzene (Surr)	103		73 - 120		02/28/18 12:31	5
Dibromofluoromethane (Surr)	103		75 - 123		02/28/18 12:31	5

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Date Collected: 02/21/18 14:15
Date Received: 02/23/18 10:30

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			02/25/18 14:47	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			02/25/18 14:47	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			02/25/18 14:47	10
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND		10	3.1	ug/L			02/25/18 14:47	10
1,1-Dichloroethane	29		10	3.8	ug/L			02/25/18 14:47	10
1,1-Dichloroethene	ND		10	2.9	ug/L			02/25/18 14:47	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			02/25/18 14:47	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			02/25/18 14:47	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			02/25/18 14:47	10
1,2-Dichloroethane	ND		10	2.1	ug/L			02/25/18 14:47	10
1,2-Dichloropropane	ND		10	7.2	ug/L			02/25/18 14:47	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			02/25/18 14:47	10

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Date Collected: 02/21/18 14:15

Matrix: Water

Date Received: 02/23/18 10:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		10	8.4	ug/L			02/25/18 14:47	10
2-Butanone (MEK)	ND		100	13	ug/L			02/25/18 14:47	10
2-Hexanone	ND		50	12	ug/L			02/25/18 14:47	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			02/25/18 14:47	10
Acetone	ND		100	30	ug/L			02/25/18 14:47	10
Benzene	21		10	4.1	ug/L			02/25/18 14:47	10
Bromodichloromethane	ND		10	3.9	ug/L			02/25/18 14:47	10
Bromoform	ND		10	2.6	ug/L			02/25/18 14:47	10
Bromomethane	ND		10	6.9	ug/L			02/25/18 14:47	10
Carbon disulfide	ND		10	1.9	ug/L			02/25/18 14:47	10
Carbon tetrachloride	ND		10	2.7	ug/L			02/25/18 14:47	10
Chlorobenzene	ND		10	7.5	ug/L			02/25/18 14:47	10
Dibromochloromethane	ND		10	3.2	ug/L			02/25/18 14:47	10
Chloroethane	ND		10	3.2	ug/L			02/25/18 14:47	10
Chloroform	ND		10	3.4	ug/L			02/25/18 14:47	10
Chloromethane	ND		10	3.5	ug/L			02/25/18 14:47	10
cis-1,2-Dichloroethene	74		10	8.1	ug/L			02/25/18 14:47	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			02/25/18 14:47	10
Cyclohexane	ND		10	1.8	ug/L			02/25/18 14:47	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			02/25/18 14:47	10
Ethylbenzene	17		10	7.4	ug/L			02/25/18 14:47	10
1,2-Dibromoethane	ND		10	7.3	ug/L			02/25/18 14:47	10
Isopropylbenzene	37		10	7.9	ug/L			02/25/18 14:47	10
Methyl acetate	ND	* F1	25	13	ug/L			02/25/18 14:47	10
Methyl tert-butyl ether	42		10	1.6	ug/L			02/25/18 14:47	10
Methylcyclohexane	ND		10	1.6	ug/L			02/25/18 14:47	10
Methylene Chloride	ND		10	4.4	ug/L			02/25/18 14:47	10
Styrene	ND		10	7.3	ug/L			02/25/18 14:47	10
Tetrachloroethene	ND		10	3.6	ug/L			02/25/18 14:47	10
Toluene	15		10	5.1	ug/L			02/25/18 14:47	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			02/25/18 14:47	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			02/25/18 14:47	10
Trichloroethene	ND		10	4.6	ug/L			02/25/18 14:47	10
Trichlorofluoromethane	ND		10	8.8	ug/L			02/25/18 14:47	10
Vinyl chloride	47		10	9.0	ug/L			02/25/18 14:47	10
Xylenes, Total	250		20	6.6	ug/L			02/25/18 14:47	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	31	T J	ug/L		2.20			02/25/18 14:47	10
Benzene, 1-ethyl-2-methyl-	98	T J N	ug/L		10.44	611-14-3		02/25/18 14:47	10
Benzene, 1,3,5-trimethyl-	61	T J N	ug/L		10.86	108-67-8		02/25/18 14:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		02/25/18 14:47	10
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		02/25/18 14:47	10
4-Bromofluorobenzene (Surr)	105		73 - 120		02/25/18 14:47	10
Dibromofluoromethane (Surr)	100		75 - 123		02/25/18 14:47	10

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Date Collected: 02/21/18 14:15

Matrix: Water

Date Received: 02/23/18 10:30

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		330	66	ug/L			02/27/18 10:54	44
Ethene	100	J	310	66	ug/L			02/27/18 10:54	44

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			02/23/18 17:50	1
Nitrite	ND	H	0.050	0.020	mg/L as N			02/23/18 17:48	1
Chloride	344		5.0	2.8	mg/L			02/28/18 11:52	10
Sulfate	4.1	J	20.0	3.5	mg/L			02/28/18 11:52	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			03/06/18 13:05	1
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Surrogate Summary

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-131737-1	ML-2S	101	101	100	97
480-131737-2	ML-2I	102	95	103	106
480-131737-3	ML-2D	98	100	96	99
480-131737-4	ML-7I	103	104	105	109
480-131737-5	ML-7D	99	102	94	101
480-131737-6	LBA-SBW-15	102	102	104	100
480-131737-6 MS	LBA-SBW-15	98	97	100	102
480-131737-6 MSD	LBA-SBW-15	96	98	103	99
480-131737-7	DUPE	100	102	103	103
480-131737-8	LBA-SBW-16	102	92	105	100
480-131737-8 MS	LBA-SBW-16	101	91	101	102
480-131737-8 MSD	LBA-SBW-16	103	92	104	103
LCS 480-401358/5	Lab Control Sample	100	100	97	102
LCS 480-401359/5	Lab Control Sample	97	90	98	102
LCS 480-401400/5	Lab Control Sample	104	92	106	106
LCS 480-401795/5	Lab Control Sample	96	98	102	99
MB 480-401358/7	Method Blank	101	100	95	97
MB 480-401359/7	Method Blank	102	97	103	104
MB 480-401400/7	Method Blank	101	96	104	107
MB 480-401795/7	Method Blank	95	102	95	104

Surrogate Legend

- TOL = Toluene-d8 (Surr)
- DCA = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-401358/7

Matrix: Water

Analysis Batch: 401358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/18 10:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/18 10:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/18 10:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/25/18 10:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/18 10:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/18 10:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/18 10:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/18 10:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/18 10:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/18 10:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/18 10:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/18 10:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/18 10:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/18 10:48	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/18 10:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/18 10:48	1
Acetone	ND		10	3.0	ug/L			02/25/18 10:48	1
Benzene	ND		1.0	0.41	ug/L			02/25/18 10:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/18 10:48	1
Bromoform	ND		1.0	0.26	ug/L			02/25/18 10:48	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/18 10:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/18 10:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/18 10:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/18 10:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/18 10:48	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/18 10:48	1
Chloroform	ND		1.0	0.34	ug/L			02/25/18 10:48	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/18 10:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/18 10:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/18 10:48	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/18 10:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/18 10:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/18 10:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/18 10:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/18 10:48	1
Methyl acetate	ND		2.5	1.3	ug/L			02/25/18 10:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/18 10:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/18 10:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/18 10:48	1
Styrene	ND		1.0	0.73	ug/L			02/25/18 10:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/18 10:48	1
Toluene	ND		1.0	0.51	ug/L			02/25/18 10:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/18 10:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/18 10:48	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/18 10:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/18 10:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/18 10:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/18 10:48	1

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>02/25/18 10:48</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>101</i>		<i>80 - 120</i>		<i>02/25/18 10:48</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>100</i>		<i>77 - 120</i>		<i>02/25/18 10:48</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>95</i>		<i>73 - 120</i>		<i>02/25/18 10:48</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>97</i>		<i>75 - 123</i>		<i>02/25/18 10:48</i>	<i>1</i>

Lab Sample ID: LCS 480-401358/5
Matrix: Water
Analysis Batch: 401358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.2		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	76 - 120
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.6		ug/L		91	61 - 148
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	24.8		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	25.0		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	25.4		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	80 - 120
2-Butanone (MEK)	125	126		ug/L		101	57 - 140
2-Hexanone	125	121		ug/L		97	65 - 127
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	71 - 125
Acetone	125	124		ug/L		99	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	23.7		ug/L		95	80 - 122
Bromoform	25.0	22.6		ug/L		91	61 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	21.0		ug/L		84	59 - 134
Carbon tetrachloride	25.0	22.0		ug/L		88	72 - 134
Chlorobenzene	25.0	24.4		ug/L		97	80 - 120
Dibromochloromethane	25.0	23.3		ug/L		93	75 - 125
Chloroethane	25.0	26.7		ug/L		107	69 - 136
Chloroform	25.0	24.6		ug/L		99	73 - 127
Chloromethane	25.0	23.2		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Cyclohexane	25.0	23.1		ug/L		92	59 - 135
Dichlorodifluoromethane	25.0	25.9		ug/L		104	59 - 135
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
Isopropylbenzene	25.0	23.9		ug/L		96	77 - 122
Methyl acetate	50.0	53.1		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	25.0		ug/L		100	77 - 120
Methylcyclohexane	25.0	24.0		ug/L		96	68 - 134
Methylene Chloride	25.0	22.3		ug/L		89	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-401358/5

Matrix: Water

Analysis Batch: 401358

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	24.2		ug/L		97	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	23.4		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	26.8		ug/L		107	62 - 150
Vinyl chloride	25.0	26.4		ug/L		105	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: MB 480-401359/7

Matrix: Water

Analysis Batch: 401359

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/25/18 11:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/25/18 11:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/25/18 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/25/18 11:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/25/18 11:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/25/18 11:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/25/18 11:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/25/18 11:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/25/18 11:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/25/18 11:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/25/18 11:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/25/18 11:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/25/18 11:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/25/18 11:12	1
2-Hexanone	ND		5.0	1.2	ug/L			02/25/18 11:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/25/18 11:12	1
Acetone	ND		10	3.0	ug/L			02/25/18 11:12	1
Benzene	ND		1.0	0.41	ug/L			02/25/18 11:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/25/18 11:12	1
Bromoform	ND		1.0	0.26	ug/L			02/25/18 11:12	1
Bromomethane	ND		1.0	0.69	ug/L			02/25/18 11:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/25/18 11:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/25/18 11:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/25/18 11:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/25/18 11:12	1
Chloroethane	ND		1.0	0.32	ug/L			02/25/18 11:12	1
Chloroform	ND		1.0	0.34	ug/L			02/25/18 11:12	1
Chloromethane	ND		1.0	0.35	ug/L			02/25/18 11:12	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-401359/7

Matrix: Water

Analysis Batch: 401359

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/25/18 11:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/25/18 11:12	1
Cyclohexane	ND		1.0	0.18	ug/L			02/25/18 11:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/25/18 11:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/25/18 11:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/25/18 11:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/25/18 11:12	1
Methyl acetate	ND		2.5	1.3	ug/L			02/25/18 11:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/25/18 11:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/25/18 11:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/25/18 11:12	1
Styrene	ND		1.0	0.73	ug/L			02/25/18 11:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/25/18 11:12	1
Toluene	ND		1.0	0.51	ug/L			02/25/18 11:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/25/18 11:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/25/18 11:12	1
Trichloroethene	ND		1.0	0.46	ug/L			02/25/18 11:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/25/18 11:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/25/18 11:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/25/18 11:12	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/25/18 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		02/25/18 11:12	1
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		02/25/18 11:12	1
4-Bromofluorobenzene (Surr)	103		73 - 120		02/25/18 11:12	1
Dibromofluoromethane (Surr)	104		75 - 123		02/25/18 11:12	1

Lab Sample ID: LCS 480-401359/5

Matrix: Water

Analysis Batch: 401359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.8		ug/L		83	76 - 120
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	76 - 122
1,1,2-Trichloro-1,1,2,2-trifluoroethane	25.0	30.1		ug/L		120	61 - 148
1,1-Dichloroethane	25.0	26.6		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	26.2		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	25.0	27.7		ug/L		111	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.4		ug/L		86	56 - 134
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	21.7		ug/L		87	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 120

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-401359/5
Matrix: Water
Analysis Batch: 401359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 120
2-Butanone (MEK)	125	93.1		ug/L		74	57 - 140
2-Hexanone	125	92.0		ug/L		74	65 - 127
4-Methyl-2-pentanone (MIBK)	125	96.0		ug/L		77	71 - 125
Acetone	125	103		ug/L		82	56 - 142
Benzene	25.0	25.8		ug/L		103	71 - 124
Bromodichloromethane	25.0	25.8		ug/L		103	80 - 122
Bromoform	25.0	22.2		ug/L		89	61 - 132
Bromomethane	25.0	20.7		ug/L		83	55 - 144
Carbon disulfide	25.0	26.4		ug/L		105	59 - 134
Carbon tetrachloride	25.0	27.6		ug/L		111	72 - 134
Chlorobenzene	25.0	25.3		ug/L		101	80 - 120
Dibromochloromethane	25.0	23.7		ug/L		95	75 - 125
Chloroethane	25.0	22.7		ug/L		91	69 - 136
Chloroform	25.0	25.0		ug/L		100	73 - 127
Chloromethane	25.0	24.2		ug/L		97	68 - 124
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	74 - 124
Cyclohexane	25.0	30.0		ug/L		120	59 - 135
Dichlorodifluoromethane	25.0	27.0		ug/L		108	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	21.9		ug/L		88	77 - 120
Isopropylbenzene	25.0	25.3		ug/L		101	77 - 122
Methyl acetate	50.0	35.9	*	ug/L		72	74 - 133
Methyl tert-butyl ether	25.0	23.2		ug/L		93	77 - 120
Methylcyclohexane	25.0	29.7		ug/L		119	68 - 134
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	25.0		ug/L		100	80 - 120
Tetrachloroethene	25.0	26.1		ug/L		104	74 - 122
Toluene	25.0	24.6		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	24.0		ug/L		96	80 - 120
Trichloroethene	25.0	25.4		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	25.8		ug/L		103	62 - 150
Vinyl chloride	25.0	24.2		ug/L		97	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	90		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-131737-8 MS
Matrix: Water
Analysis Batch: 401359

Client Sample ID: LBA-SBW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		250	286		ug/L		114	73 - 126

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-131737-8 MS

Matrix: Water

Analysis Batch: 401359

Client Sample ID: LBA-SBW-16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	ND		250	212		ug/L		85	76 - 120
1,1,2-Trichloroethane	ND		250	222		ug/L		89	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	303		ug/L		121	61 - 148
1,1-Dichloroethane	29		250	290		ug/L		104	77 - 120
1,1-Dichloroethene	ND		250	275		ug/L		110	66 - 127
1,2,4-Trichlorobenzene	ND		250	285		ug/L		114	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	210		ug/L		84	56 - 134
1,2-Dichlorobenzene	ND		250	264		ug/L		106	80 - 124
1,2-Dichloroethane	ND		250	216		ug/L		87	75 - 120
1,2-Dichloropropane	ND		250	257		ug/L		103	76 - 120
1,3-Dichlorobenzene	ND		250	269		ug/L		108	77 - 120
1,4-Dichlorobenzene	ND		250	261		ug/L		105	78 - 124
2-Butanone (MEK)	ND		1250	835		ug/L		67	57 - 140
2-Hexanone	ND		1250	857		ug/L		69	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	936		ug/L		75	71 - 125
Acetone	ND		1250	846		ug/L		68	56 - 142
Benzene	21		250	278		ug/L		103	71 - 124
Bromodichloromethane	ND		250	248		ug/L		99	80 - 122
Bromoform	ND		250	216		ug/L		86	61 - 132
Bromomethane	ND		250	223		ug/L		89	55 - 144
Carbon disulfide	ND		250	271		ug/L		108	59 - 134
Carbon tetrachloride	ND		250	288		ug/L		115	72 - 134
Chlorobenzene	ND		250	257		ug/L		103	80 - 120
Dibromochloromethane	ND		250	232		ug/L		93	75 - 125
Chloroethane	ND		250	245		ug/L		98	69 - 136
Chloroform	ND		250	255		ug/L		102	73 - 127
Chloromethane	ND		250	248		ug/L		99	68 - 124
cis-1,2-Dichloroethene	74		250	338		ug/L		106	74 - 124
cis-1,3-Dichloropropene	ND		250	249		ug/L		100	74 - 124
Cyclohexane	ND		250	315		ug/L		126	59 - 135
Dichlorodifluoromethane	ND		250	285		ug/L		114	59 - 135
Ethylbenzene	17		250	278		ug/L		104	77 - 123
1,2-Dibromoethane	ND		250	218		ug/L		87	77 - 120
Isopropylbenzene	37		250	318		ug/L		113	77 - 122
Methyl acetate	ND	* F1	500	329	F1	ug/L		66	74 - 133
Methyl tert-butyl ether	42		250	267		ug/L		90	77 - 120
Methylcyclohexane	ND		250	306		ug/L		122	68 - 134
Methylene Chloride	ND		250	255		ug/L		102	75 - 124
Styrene	ND		250	259		ug/L		104	80 - 120
Tetrachloroethene	ND		250	261		ug/L		104	74 - 122
Toluene	15		250	265		ug/L		100	80 - 122
trans-1,2-Dichloroethene	ND		250	273		ug/L		109	73 - 127
trans-1,3-Dichloropropene	ND		250	234		ug/L		94	80 - 120
Trichloroethene	ND		250	261		ug/L		105	74 - 123
Trichlorofluoromethane	ND		250	275		ug/L		110	62 - 150
Vinyl chloride	47		250	301		ug/L		101	65 - 133

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-131737-8 MS

Matrix: Water

Analysis Batch: 401359

Client Sample ID: LBA-SBW-16

Prep Type: Total/NA

Surrogate	%Recovery	MS MS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	91		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-131737-8 MSD

Matrix: Water

Analysis Batch: 401359

Client Sample ID: LBA-SBW-16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		250	275		ug/L		110	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		250	210		ug/L		84	76 - 120	1	15
1,1,2-Trichloroethane	ND		250	230		ug/L		92	76 - 122	4	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	308		ug/L		123	61 - 148	1	20
1,1-Dichloroethane	29		250	292		ug/L		105	77 - 120	1	20
1,1-Dichloroethene	ND		250	269		ug/L		108	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		250	292		ug/L		117	79 - 122	3	20
1,2-Dibromo-3-Chloropropane	ND		250	206		ug/L		82	56 - 134	2	15
1,2-Dichlorobenzene	ND		250	267		ug/L		107	80 - 124	1	20
1,2-Dichloroethane	ND		250	218		ug/L		87	75 - 120	1	20
1,2-Dichloropropane	ND		250	257		ug/L		103	76 - 120	0	20
1,3-Dichlorobenzene	ND		250	259		ug/L		104	77 - 120	4	20
1,4-Dichlorobenzene	ND		250	265		ug/L		106	78 - 124	1	20
2-Butanone (MEK)	ND		1250	831		ug/L		66	57 - 140	1	20
2-Hexanone	ND		1250	848		ug/L		68	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		1250	924		ug/L		74	71 - 125	1	35
Acetone	ND		1250	854		ug/L		68	56 - 142	1	15
Benzene	21		250	279		ug/L		103	71 - 124	0	13
Bromodichloromethane	ND		250	250		ug/L		100	80 - 122	1	15
Bromoform	ND		250	218		ug/L		87	61 - 132	1	15
Bromomethane	ND		250	226		ug/L		91	55 - 144	1	15
Carbon disulfide	ND		250	270		ug/L		108	59 - 134	1	15
Carbon tetrachloride	ND		250	285		ug/L		114	72 - 134	1	15
Chlorobenzene	ND		250	259		ug/L		104	80 - 120	1	25
Dibromochloromethane	ND		250	235		ug/L		94	75 - 125	1	15
Chloroethane	ND		250	241		ug/L		96	69 - 136	2	15
Chloroform	ND		250	248		ug/L		99	73 - 127	3	20
Chloromethane	ND		250	246		ug/L		98	68 - 124	1	15
cis-1,2-Dichloroethene	74		250	331		ug/L		103	74 - 124	2	15
cis-1,3-Dichloropropene	ND		250	248		ug/L		99	74 - 124	1	15
Cyclohexane	ND		250	312		ug/L		125	59 - 135	1	20
Dichlorodifluoromethane	ND		250	283		ug/L		113	59 - 135	1	20
Ethylbenzene	17		250	280		ug/L		105	77 - 123	1	15
1,2-Dibromoethane	ND		250	220		ug/L		88	77 - 120	1	15
Isopropylbenzene	37		250	312		ug/L		110	77 - 122	2	20
Methyl acetate	ND	* F1	500	331	F1	ug/L		66	74 - 133	1	20
Methyl tert-butyl ether	42		250	264		ug/L		89	77 - 120	1	37

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-131737-8 MSD

Matrix: Water

Analysis Batch: 401359

Client Sample ID: LBA-SBW-16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane	ND		250	305		ug/L		122	68 - 134	0	20
Methylene Chloride	ND		250	243		ug/L		97	75 - 124	5	15
Styrene	ND		250	259		ug/L		104	80 - 120	0	20
Tetrachloroethene	ND		250	264		ug/L		106	74 - 122	1	20
Toluene	15		250	264		ug/L		100	80 - 122	0	15
trans-1,2-Dichloroethene	ND		250	261		ug/L		104	73 - 127	4	20
trans-1,3-Dichloropropene	ND		250	239		ug/L		95	80 - 120	2	15
Trichloroethene	ND		250	258		ug/L		103	74 - 123	1	16
Trichlorofluoromethane	ND		250	275		ug/L		110	62 - 150	0	20
Vinyl chloride	47		250	294		ug/L		99	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: MB 480-401400/7

Matrix: Water

Analysis Batch: 401400

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/26/18 11:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/18 11:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/18 11:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/18 11:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/18 11:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/18 11:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/18 11:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/18 11:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/18 11:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/18 11:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/18 11:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/18 11:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/18 11:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/18 11:04	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/18 11:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/18 11:04	1
Acetone	ND		10	3.0	ug/L			02/26/18 11:04	1
Benzene	ND		1.0	0.41	ug/L			02/26/18 11:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/18 11:04	1
Bromoform	ND		1.0	0.26	ug/L			02/26/18 11:04	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/18 11:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/18 11:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/18 11:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/18 11:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/18 11:04	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/18 11:04	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-401400/7

Matrix: Water

Analysis Batch: 401400

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			02/26/18 11:04	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/18 11:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/18 11:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/18 11:04	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/18 11:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/18 11:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/18 11:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/18 11:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/18 11:04	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/18 11:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/18 11:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/18 11:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/18 11:04	1
Styrene	ND		1.0	0.73	ug/L			02/26/18 11:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/18 11:04	1
Toluene	ND		1.0	0.51	ug/L			02/26/18 11:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/18 11:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/18 11:04	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/18 11:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/18 11:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/18 11:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/18 11:04	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/18 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	D	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120			02/26/18 11:04	1
1,2-Dichloroethane-d4 (Surr)	96		77 - 120			02/26/18 11:04	1
4-Bromofluorobenzene (Surr)	104		73 - 120			02/26/18 11:04	1
Dibromofluoromethane (Surr)	107		75 - 123			02/26/18 11:04	1

Lab Sample ID: LCS 480-401400/5

Matrix: Water

Analysis Batch: 401400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	73 - 126
1,1,1,2-Tetrachloroethane	25.0	20.4		ug/L		82	76 - 120
1,1,2-Trichloroethane	25.0	22.0		ug/L		88	76 - 122
1,1,2-Trichloro-1,1,2,2-trifluoroethane	25.0	30.3		ug/L		121	61 - 148
1,1-Dichloroethane	25.0	26.4		ug/L		106	77 - 120
1,1-Dichloroethene	25.0	26.8		ug/L		107	66 - 127
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	18.7		ug/L		75	56 - 134
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	21.0		ug/L		84	75 - 120

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-401400/5
Matrix: Water
Analysis Batch: 401400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	26.5		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 120
2-Butanone (MEK)	125	79.9		ug/L		64	57 - 140
2-Hexanone	125	85.1		ug/L		68	65 - 127
4-Methyl-2-pentanone (MIBK)	125	90.7		ug/L		73	71 - 125
Acetone	125	84.6		ug/L		68	56 - 142
Benzene	25.0	25.7		ug/L		103	71 - 124
Bromodichloromethane	25.0	25.3		ug/L		101	80 - 122
Bromoform	25.0	22.1		ug/L		88	61 - 132
Bromomethane	25.0	22.4		ug/L		90	55 - 144
Carbon disulfide	25.0	27.5		ug/L		110	59 - 134
Carbon tetrachloride	25.0	28.4		ug/L		114	72 - 134
Chlorobenzene	25.0	26.0		ug/L		104	80 - 120
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Chloroethane	25.0	24.0		ug/L		96	69 - 136
Chloroform	25.0	24.9		ug/L		100	73 - 127
Chloromethane	25.0	23.8		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	74 - 124
Cyclohexane	25.0	30.8		ug/L		123	59 - 135
Dichlorodifluoromethane	25.0	26.6		ug/L		106	59 - 135
Ethylbenzene	25.0	25.9		ug/L		103	77 - 123
1,2-Dibromoethane	25.0	21.4		ug/L		85	77 - 120
Isopropylbenzene	25.0	26.6		ug/L		107	77 - 122
Methyl acetate	50.0	32.8	*	ug/L		66	74 - 133
Methyl tert-butyl ether	25.0	22.4		ug/L		90	77 - 120
Methylcyclohexane	25.0	30.8		ug/L		123	68 - 134
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	25.9		ug/L		103	80 - 120
Tetrachloroethene	25.0	26.2		ug/L		105	74 - 122
Toluene	25.0	24.6		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	26.6		ug/L		106	73 - 127
trans-1,3-Dichloropropene	25.0	24.4		ug/L		98	80 - 120
Trichloroethene	25.0	25.8		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	27.1		ug/L		109	62 - 150
Vinyl chloride	25.0	24.0		ug/L		96	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		80 - 120
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-401795/7

Matrix: Water

Analysis Batch: 401795

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/28/18 10:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/18 10:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/18 10:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/18 10:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/18 10:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/18 10:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/18 10:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/18 10:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/18 10:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/18 10:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/18 10:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/18 10:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/18 10:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/18 10:56	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/18 10:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/18 10:56	1
Acetone	ND		10	3.0	ug/L			02/28/18 10:56	1
Benzene	ND		1.0	0.41	ug/L			02/28/18 10:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/18 10:56	1
Bromoform	ND		1.0	0.26	ug/L			02/28/18 10:56	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/18 10:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/18 10:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/18 10:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/18 10:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/18 10:56	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/18 10:56	1
Chloroform	ND		1.0	0.34	ug/L			02/28/18 10:56	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/18 10:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/18 10:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/18 10:56	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/18 10:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/18 10:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/18 10:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/18 10:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/18 10:56	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/18 10:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/18 10:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/18 10:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/18 10:56	1
Styrene	ND		1.0	0.73	ug/L			02/28/18 10:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/18 10:56	1
Toluene	ND		1.0	0.51	ug/L			02/28/18 10:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/18 10:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/18 10:56	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/18 10:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/18 10:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/18 10:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/18 10:56	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>02/28/18 10:56</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>95</i>		<i>80 - 120</i>		<i>02/28/18 10:56</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>102</i>		<i>77 - 120</i>		<i>02/28/18 10:56</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>95</i>		<i>73 - 120</i>		<i>02/28/18 10:56</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>104</i>		<i>75 - 123</i>		<i>02/28/18 10:56</i>	<i>1</i>

Lab Sample ID: LCS 480-401795/5
Matrix: Water
Analysis Batch: 401795

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.0		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	76 - 120
1,1,2-Trichloroethane	25.0	22.7		ug/L		91	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	61 - 148
1,1-Dichloroethane	25.0	23.0		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	19.0		ug/L		76	66 - 127
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.4		ug/L		109	56 - 134
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	22.3		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.1		ug/L		93	80 - 120
2-Butanone (MEK)	125	115		ug/L		92	57 - 140
2-Hexanone	125	124		ug/L		99	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	93.0		ug/L		74	56 - 142
Benzene	25.0	22.6		ug/L		91	71 - 124
Bromodichloromethane	25.0	23.0		ug/L		92	80 - 122
Bromoform	25.0	24.9		ug/L		100	61 - 132
Bromomethane	25.0	22.2		ug/L		89	55 - 144
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134
Carbon tetrachloride	25.0	22.9		ug/L		92	72 - 134
Chlorobenzene	25.0	22.9		ug/L		91	80 - 120
Dibromochloromethane	25.0	23.1		ug/L		92	75 - 125
Chloroethane	25.0	22.5		ug/L		90	69 - 136
Chloroform	25.0	22.3		ug/L		89	73 - 127
Chloromethane	25.0	23.6		ug/L		94	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	23.9		ug/L		96	74 - 124
Cyclohexane	25.0	24.0		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	25.7		ug/L		103	59 - 135
Ethylbenzene	25.0	22.6		ug/L		90	77 - 123
1,2-Dibromoethane	25.0	23.5		ug/L		94	77 - 120
Isopropylbenzene	25.0	23.1		ug/L		92	77 - 122
Methyl acetate	50.0	43.1		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	22.1		ug/L		88	77 - 120
Methylcyclohexane	25.0	25.5		ug/L		102	68 - 134
Methylene Chloride	25.0	22.3		ug/L		89	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-401795/5

Matrix: Water

Analysis Batch: 401795

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	23.6		ug/L		94	80 - 120
Tetrachloroethene	25.0	22.8		ug/L		91	74 - 122
Toluene	25.0	21.5		ug/L		86	80 - 122
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	23.2		ug/L		93	80 - 120
Trichloroethene	25.0	22.9		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	23.6		ug/L		94	62 - 150
Vinyl chloride	25.0	22.6		ug/L		90	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Lab Sample ID: 480-131737-6 MS

Matrix: Water

Analysis Batch: 401795

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		125	133		ug/L		106	73 - 126
1,1,2,2-Tetrachloroethane	ND		125	139		ug/L		111	76 - 120
1,1,2-Trichloroethane	ND		125	132		ug/L		106	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		125	149		ug/L		119	61 - 148
1,1-Dichloroethane	9.4		125	141		ug/L		106	77 - 120
1,1-Dichloroethene	ND		125	132		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	ND		125	133		ug/L		106	79 - 122
1,2-Dibromo-3-Chloropropane	ND		125	163		ug/L		131	56 - 134
1,2-Dichlorobenzene	ND		125	132		ug/L		105	80 - 124
1,2-Dichloroethane	ND		125	120		ug/L		96	75 - 120
1,2-Dichloropropane	ND		125	138		ug/L		110	76 - 120
1,3-Dichlorobenzene	ND		125	131		ug/L		105	77 - 120
1,4-Dichlorobenzene	ND		125	129		ug/L		103	78 - 124
2-Butanone (MEK)	15	J	625	755		ug/L		118	57 - 140
2-Hexanone	ND		625	689		ug/L		110	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		625	688		ug/L		110	71 - 125
Acetone	ND		625	568		ug/L		91	56 - 142
Benzene	8.6		125	140		ug/L		105	71 - 124
Bromodichloromethane	ND		125	131		ug/L		105	80 - 122
Bromoform	ND		125	132		ug/L		106	61 - 132
Bromomethane	ND		125	118		ug/L		94	55 - 144
Carbon disulfide	ND		125	133		ug/L		107	59 - 134
Carbon tetrachloride	ND		125	138		ug/L		110	72 - 134
Chlorobenzene	ND		125	128		ug/L		102	80 - 120
Dibromochloromethane	ND		125	132		ug/L		105	75 - 125
Chloroethane	110		125	238		ug/L		104	69 - 136
Chloroform	ND		125	127		ug/L		102	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-131737-6 MS

Matrix: Water

Analysis Batch: 401795

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		125	130		ug/L		104	68 - 124
cis-1,2-Dichloroethene	10		125	143		ug/L		107	74 - 124
cis-1,3-Dichloropropene	ND		125	127		ug/L		101	74 - 124
Cyclohexane	ND		125	149		ug/L		119	59 - 135
Dichlorodifluoromethane	ND		125	141		ug/L		113	59 - 135
Ethylbenzene	ND		125	131		ug/L		105	77 - 123
1,2-Dibromoethane	ND		125	136		ug/L		109	77 - 120
Isopropylbenzene	ND		125	139		ug/L		111	77 - 122
Methyl acetate	ND		250	252		ug/L		101	74 - 133
Methyl tert-butyl ether	2.7	J	125	129		ug/L		101	77 - 120
Methylcyclohexane	6.9		125	158		ug/L		121	68 - 134
Methylene Chloride	ND		125	132		ug/L		105	75 - 124
Styrene	ND		125	130		ug/L		104	80 - 120
Tetrachloroethene	ND		125	131		ug/L		105	74 - 122
Toluene	8.1		125	129		ug/L		97	80 - 122
trans-1,2-Dichloroethene	ND		125	135		ug/L		108	73 - 127
trans-1,3-Dichloropropene	ND		125	122		ug/L		98	80 - 120
Trichloroethene	ND		125	130		ug/L		104	74 - 123
Trichlorofluoromethane	ND		125	135		ug/L		108	62 - 150
Vinyl chloride	13		125	138		ug/L		100	65 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Lab Sample ID: 480-131737-6 MSD

Matrix: Water

Analysis Batch: 401795

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		125	129		ug/L		103	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		125	142		ug/L		113	76 - 120	2	15
1,1,2-Trichloroethane	ND		125	129		ug/L		103	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		125	147		ug/L		118	61 - 148	1	20
1,1-Dichloroethane	9.4		125	137		ug/L		102	77 - 120	4	20
1,1-Dichloroethene	ND		125	126		ug/L		101	66 - 127	5	16
1,2,4-Trichlorobenzene	ND		125	134		ug/L		107	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		125	162		ug/L		129	56 - 134	1	15
1,2-Dichlorobenzene	ND		125	132		ug/L		105	80 - 124	0	20
1,2-Dichloroethane	ND		125	118		ug/L		95	75 - 120	1	20
1,2-Dichloropropane	ND		125	132		ug/L		106	76 - 120	4	20
1,3-Dichlorobenzene	ND		125	130		ug/L		104	77 - 120	1	20
1,4-Dichlorobenzene	ND		125	129		ug/L		103	78 - 124	0	20
2-Butanone (MEK)	15	J	625	745		ug/L		117	57 - 140	1	20
2-Hexanone	ND		625	703		ug/L		113	65 - 127	2	15

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-131737-6 MSD

Matrix: Water

Analysis Batch: 401795

Client Sample ID: LBA-SBW-15

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone (MIBK)	ND		625	695		ug/L		111	71 - 125	1	35
Acetone	ND		625	634		ug/L		101	56 - 142	11	15
Benzene	8.6		125	135		ug/L		101	71 - 124	4	13
Bromodichloromethane	ND		125	128		ug/L		103	80 - 122	2	15
Bromoform	ND		125	135		ug/L		108	61 - 132	2	15
Bromomethane	ND		125	116		ug/L		93	55 - 144	2	15
Carbon disulfide	ND		125	127		ug/L		102	59 - 134	5	15
Carbon tetrachloride	ND		125	130		ug/L		104	72 - 134	6	15
Chlorobenzene	ND		125	129		ug/L		103	80 - 120	1	25
Dibromochloromethane	ND		125	130		ug/L		104	75 - 125	1	15
Chloroethane	110		125	230		ug/L		97	69 - 136	4	15
Chloroform	ND		125	123		ug/L		98	73 - 127	4	20
Chloromethane	ND		125	125		ug/L		100	68 - 124	4	15
cis-1,2-Dichloroethene	10		125	136		ug/L		101	74 - 124	5	15
cis-1,3-Dichloropropene	ND		125	126		ug/L		101	74 - 124	1	15
Cyclohexane	ND		125	134		ug/L		107	59 - 135	11	20
Dichlorodifluoromethane	ND		125	132		ug/L		105	59 - 135	7	20
Ethylbenzene	ND		125	129		ug/L		103	77 - 123	2	15
1,2-Dibromoethane	ND		125	132		ug/L		106	77 - 120	3	15
Isopropylbenzene	ND		125	135		ug/L		108	77 - 122	3	20
Methyl acetate	ND		250	258		ug/L		103	74 - 133	2	20
Methyl tert-butyl ether	2.7	J	125	127		ug/L		100	77 - 120	2	37
Methylcyclohexane	6.9		125	147		ug/L		112	68 - 134	8	20
Methylene Chloride	ND		125	129		ug/L		103	75 - 124	2	15
Styrene	ND		125	128		ug/L		102	80 - 120	2	20
Tetrachloroethene	ND		125	129		ug/L		103	74 - 122	2	20
Toluene	8.1		125	129		ug/L		97	80 - 122	0	15
trans-1,2-Dichloroethene	ND		125	130		ug/L		104	73 - 127	4	20
trans-1,3-Dichloropropene	ND		125	122		ug/L		97	80 - 120	1	15
Trichloroethene	ND		125	126		ug/L		101	74 - 123	3	16
Trichlorofluoromethane	ND		125	126		ug/L		101	62 - 150	6	20
Vinyl chloride	13		125	134		ug/L		96	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-401576/3

Matrix: Water

Analysis Batch: 401576

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethane	ND		7.5	1.5	ug/L			02/27/18 07:24	1
Ethene	ND		7.0	1.5	ug/L			02/27/18 07:24	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Lab Sample ID: LCS 480-401576/4
Matrix: Water
Analysis Batch: 401576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	16.5		ug/L		113	79 - 120
Ethene	13.6	14.8		ug/L		109	85 - 120

Lab Sample ID: LCSD 480-401576/5
Matrix: Water
Analysis Batch: 401576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.6	16.3		ug/L		112	79 - 120	1	50
Ethene	13.6	14.5		ug/L		106	85 - 120	2	50

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 480-401728/28
Matrix: Water
Analysis Batch: 401728

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			02/27/18 22:23	1
Sulfate	ND		2.0	0.35	mg/L			02/27/18 22:23	1

Lab Sample ID: LCS 480-401728/27
Matrix: Water
Analysis Batch: 401728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.20		mg/L		100	90 - 110
Sulfate	50.0	50.70		mg/L		101	90 - 110

Lab Sample ID: 480-131737-3 MS
Matrix: Water
Analysis Batch: 401728

Client Sample ID: ML-2D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	419		500	894.3		mg/L		95	81 - 120
Sulfate	3.6	J	500	504.1		mg/L		100	80 - 120

Lab Sample ID: MB 480-401749/5
Matrix: Water
Analysis Batch: 401749

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			02/28/18 11:20	1
Sulfate	ND		2.0	0.35	mg/L			02/28/18 11:20	1

Lab Sample ID: LCS 480-401749/4
Matrix: Water
Analysis Batch: 401749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.20		mg/L		98	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-401749/4
Matrix: Water
Analysis Batch: 401749

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	51.10		mg/L		102	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-402716/3
Matrix: Water
Analysis Batch: 402716

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			03/06/18 13:05	1

Lab Sample ID: LCS 480-402716/4
Matrix: Water
Analysis Batch: 402716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.80		mg/L		90	90 - 110

Lab Sample ID: 480-131737-8 MS
Matrix: Water
Analysis Batch: 402716

Client Sample ID: LBA-SBW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	0.778		mg/L		78	70 - 130

Lab Sample ID: 480-131737-8 DU
Matrix: Water
Analysis Batch: 402716

Client Sample ID: LBA-SBW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	ND	HF	ND		mg/L		NC	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-401560/3
Matrix: Water
Analysis Batch: 401560

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			02/26/18 12:45	1

Lab Sample ID: LCS 480-401560/4
Matrix: Water
Analysis Batch: 401560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.00	9.20		mg/L		102	90 - 110

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: 480-131737-1 MS
Matrix: Water
Analysis Batch: 401560

Client Sample ID: ML-2S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		2.40	2.80		mg/L		117	40 - 150

Lab Sample ID: 480-131737-6 DU
Matrix: Water
Analysis Batch: 401560

Client Sample ID: LBA-SBW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	2.0		2.40		mg/L		18	20

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

GC/MS VOA

Analysis Batch: 401358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	8260C	
480-131737-3	ML-2D	Total/NA	Water	8260C	
480-131737-5	ML-7D	Total/NA	Water	8260C	
MB 480-401358/7	Method Blank	Total/NA	Water	8260C	
LCS 480-401358/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 401359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-8	LBA-SBW-16	Total/NA	Water	8260C	
MB 480-401359/7	Method Blank	Total/NA	Water	8260C	
LCS 480-401359/5	Lab Control Sample	Total/NA	Water	8260C	
480-131737-8 MS	LBA-SBW-16	Total/NA	Water	8260C	
480-131737-8 MSD	LBA-SBW-16	Total/NA	Water	8260C	

Analysis Batch: 401400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-2	ML-2I	Total/NA	Water	8260C	
MB 480-401400/7	Method Blank	Total/NA	Water	8260C	
LCS 480-401400/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 401795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-4	ML-7I	Total/NA	Water	8260C	
480-131737-6	LBA-SBW-15	Total/NA	Water	8260C	
480-131737-7	DUPE	Total/NA	Water	8260C	
MB 480-401795/7	Method Blank	Total/NA	Water	8260C	
LCS 480-401795/5	Lab Control Sample	Total/NA	Water	8260C	
480-131737-6 MS	LBA-SBW-15	Total/NA	Water	8260C	
480-131737-6 MSD	LBA-SBW-15	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 401576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	RSK-175	
480-131737-2	ML-2I	Total/NA	Water	RSK-175	
480-131737-3	ML-2D	Total/NA	Water	RSK-175	
480-131737-4	ML-7I	Total/NA	Water	RSK-175	
480-131737-5	ML-7D	Total/NA	Water	RSK-175	
480-131737-6	LBA-SBW-15	Total/NA	Water	RSK-175	
480-131737-8	LBA-SBW-16	Total/NA	Water	RSK-175	
MB 480-401576/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-401576/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-401576/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 401337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	353.2	

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

General Chemistry (Continued)

Analysis Batch: 401337 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-2	ML-2I	Total/NA	Water	353.2	
480-131737-3	ML-2D	Total/NA	Water	353.2	
480-131737-4	ML-7I	Total/NA	Water	353.2	
480-131737-5	ML-7D	Total/NA	Water	353.2	
480-131737-6	LBA-SBW-15	Total/NA	Water	353.2	
480-131737-8	LBA-SBW-16	Total/NA	Water	353.2	

Analysis Batch: 401338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	353.2	
480-131737-2	ML-2I	Total/NA	Water	353.2	
480-131737-3	ML-2D	Total/NA	Water	353.2	
480-131737-4	ML-7I	Total/NA	Water	353.2	
480-131737-5	ML-7D	Total/NA	Water	353.2	
480-131737-6	LBA-SBW-15	Total/NA	Water	353.2	
480-131737-8	LBA-SBW-16	Total/NA	Water	353.2	

Analysis Batch: 401560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	SM 4500 S2 F	
480-131737-2	ML-2I	Total/NA	Water	SM 4500 S2 F	
480-131737-3	ML-2D	Total/NA	Water	SM 4500 S2 F	
480-131737-4	ML-7I	Total/NA	Water	SM 4500 S2 F	
480-131737-5	ML-7D	Total/NA	Water	SM 4500 S2 F	
480-131737-6	LBA-SBW-15	Total/NA	Water	SM 4500 S2 F	
480-131737-8	LBA-SBW-16	Total/NA	Water	SM 4500 S2 F	
MB 480-401560/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-401560/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-131737-1 MS	ML-2S	Total/NA	Water	SM 4500 S2 F	
480-131737-6 DU	LBA-SBW-15	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 401728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	9056A	
480-131737-2	ML-2I	Total/NA	Water	9056A	
480-131737-3	ML-2D	Total/NA	Water	9056A	
MB 480-401728/28	Method Blank	Total/NA	Water	9056A	
LCS 480-401728/27	Lab Control Sample	Total/NA	Water	9056A	
480-131737-3 MS	ML-2D	Total/NA	Water	9056A	

Analysis Batch: 401749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-4	ML-7I	Total/NA	Water	9056A	
480-131737-5	ML-7D	Total/NA	Water	9056A	
480-131737-6	LBA-SBW-15	Total/NA	Water	9056A	
480-131737-8	LBA-SBW-16	Total/NA	Water	9056A	
MB 480-401749/5	Method Blank	Total/NA	Water	9056A	
LCS 480-401749/4	Lab Control Sample	Total/NA	Water	9056A	

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

General Chemistry (Continued)

Analysis Batch: 402716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-131737-1	ML-2S	Total/NA	Water	SM 3500 FE D	
480-131737-2	ML-2I	Total/NA	Water	SM 3500 FE D	
480-131737-3	ML-2D	Total/NA	Water	SM 3500 FE D	
480-131737-4	ML-7I	Total/NA	Water	SM 3500 FE D	
480-131737-5	ML-7D	Total/NA	Water	SM 3500 FE D	
480-131737-6	LBA-SBW-15	Total/NA	Water	SM 3500 FE D	
480-131737-8	LBA-SBW-16	Total/NA	Water	SM 3500 FE D	
MB 480-402716/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-402716/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-131737-8 MS	LBA-SBW-16	Total/NA	Water	SM 3500 FE D	
480-131737-8 DU	LBA-SBW-16	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-2S

Date Collected: 02/21/18 13:05

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	401358	02/25/18 14:35	AMM	TAL BUF
Total/NA	Analysis	RSK-175		44	401576	02/27/18 09:09	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 17:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 17:50	DCB	TAL BUF
Total/NA	Analysis	9056A		10	401728	02/28/18 00:41	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Client Sample ID: ML-2I

Date Collected: 02/21/18 15:10

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	401400	02/26/18 13:52	KMN	TAL BUF
Total/NA	Analysis	RSK-175		44	401576	02/27/18 09:27	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 15:09	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 15:09	DCB	TAL BUF
Total/NA	Analysis	9056A		10	401728	02/28/18 00:49	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Client Sample ID: ML-2D

Date Collected: 02/21/18 16:10

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	401358	02/25/18 15:22	AMM	TAL BUF
Total/NA	Analysis	RSK-175		44	401576	02/27/18 09:44	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 15:10	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 15:10	DCB	TAL BUF
Total/NA	Analysis	9056A		10	401728	02/28/18 00:57	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Client Sample ID: ML-7I

Date Collected: 02/21/18 09:10

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	401795	02/28/18 11:37	RJF	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: ML-7I

Date Collected: 02/21/18 09:10

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		44	401576	02/27/18 10:02	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 17:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 17:50	DCB	TAL BUF
Total/NA	Analysis	9056A		5	401749	02/28/18 11:28	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Client Sample ID: ML-7D

Date Collected: 02/21/18 10:30

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	401358	02/25/18 16:08	AMM	TAL BUF
Total/NA	Analysis	RSK-175		44	401576	02/27/18 10:19	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 17:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 17:50	DCB	TAL BUF
Total/NA	Analysis	9056A		10	401749	02/28/18 11:36	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Client Sample ID: LBA-SBW-15

Date Collected: 02/21/18 11:40

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	401795	02/28/18 12:04	RJF	TAL BUF
Total/NA	Analysis	RSK-175		44	401576	02/27/18 10:37	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 17:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 17:50	DCB	TAL BUF
Total/NA	Analysis	9056A		10	401749	02/28/18 11:44	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Client Sample ID: DUPE

Date Collected: 02/21/18 00:00

Date Received: 02/23/18 10:30

Lab Sample ID: 480-131737-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	401795	02/28/18 12:31	RJF	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Date Collected: 02/21/18 14:15

Matrix: Water

Date Received: 02/23/18 10:30

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260C		10	401359	02/25/18 14:47	AMM	TAL BUF
Total/NA	Analysis	RSK-175		44	401576	02/27/18 10:54	TRG	TAL BUF
Total/NA	Analysis	353.2		1	401337	02/23/18 17:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	401338	02/23/18 17:50	DCB	TAL BUF
Total/NA	Analysis	9056A		10	401749	02/28/18 11:52	RJS	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	402716	03/06/18 13:05	LED	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	401560	02/26/18 12:45	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-131737-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9056A		Water	Chloride
9056A		Water	Sulfate
SM 3500 FE D		Water	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2S	480-131737-1	97	101	101	100
ML-2I	480-131737-2	106	95	102	103
ML-2D	480-131737-3	99	100	98	96
ML-7I	480-131737-4	109	104	103	105
ML-7D	480-131737-5	101	102	99	94
LBA-SBW-15	480-131737-6	100	102	102	104
DUPE	480-131737-7	103	102	100	103
LBA-SBW-16	480-131737-8	100	92	102	105
	MB 480-401358/7	97	100	101	95
	MB 480-401359/7	104	97	102	103
	MB 480-401400/7	107	96	101	104
	MB 480-401795/7	104	102	95	95
	LCS 480-401358/5	102	100	100	97
	LCS 480-401359/5	102	90	97	98
	LCS 480-401400/5	106	92	104	106
	LCS 480-401795/5	99	98	96	102
LBA-SBW-15 MS	480-131737-6 MS	102	97	98	100
LBA-SBW-16 MS	480-131737-8 MS	102	91	101	101
LBA-SBW-15 MSD	480-131737-6 MSD	99	98	96	103
LBA-SBW-16 MSD	480-131737-8 MSD	103	92	103	104

QC LIMITS

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S7854.D

Lab ID: LCS 480-401358/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	23.2	93	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.1	101	76-120	
1,1,2-Trichloroethane	25.0	25.3	101	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.6	91	61-148	
1,1-Dichloroethane	25.0	25.0	100	77-120	
1,1-Dichloroethene	25.0	24.8	99	66-127	
1,2,4-Trichlorobenzene	25.0	24.3	97	79-122	
1,2-Dibromo-3-Chloropropane	25.0	22.5	90	56-134	
1,2-Dichlorobenzene	25.0	25.2	101	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	25.4	101	76-120	
1,3-Dichlorobenzene	25.0	25.2	101	77-120	
1,4-Dichlorobenzene	25.0	24.3	97	80-120	
2-Butanone (MEK)	125	126	101	57-140	
2-Hexanone	125	121	97	65-127	
4-Methyl-2-pentanone (MIBK)	125	127	102	71-125	
Acetone	125	124	99	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	23.7	95	80-122	
Bromoform	25.0	22.6	91	61-132	
Bromomethane	25.0	24.2	97	55-144	
Carbon disulfide	25.0	21.0	84	59-134	
Carbon tetrachloride	25.0	22.0	88	72-134	
Chlorobenzene	25.0	24.4	97	80-120	
Dibromochloromethane	25.0	23.3	93	75-125	
Chloroethane	25.0	26.7	107	69-136	
Chloroform	25.0	24.6	99	73-127	
Chloromethane	25.0	23.2	93	68-124	
cis-1,2-Dichloroethene	25.0	24.7	99	74-124	
cis-1,3-Dichloropropene	25.0	24.9	100	74-124	
Cyclohexane	25.0	23.1	92	59-135	
Dichlorodifluoromethane	25.0	25.9	104	59-135	
Ethylbenzene	25.0	23.7	95	77-123	
1,2-Dibromoethane	25.0	24.7	99	77-120	
Isopropylbenzene	25.0	23.9	96	77-122	
Methyl acetate	50.0	53.1	106	74-133	
Methyl tert-butyl ether	25.0	25.0	100	77-120	
Methylcyclohexane	25.0	24.0	96	68-134	
Methylene Chloride	25.0	22.3	89	75-124	
Styrene	25.0	23.9	96	80-120	
Tetrachloroethene	25.0	24.2	97	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S7854.D

Lab ID: LCS 480-401358/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.7	95	80-122	
trans-1,2-Dichloroethene	25.0	23.9	96	73-127	
trans-1,3-Dichloropropene	25.0	24.6	98	80-120	
Trichloroethene	25.0	23.4	94	74-123	
Trichlorofluoromethane	25.0	26.8	107	62-150	
Vinyl chloride	25.0	26.4	105	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7295.D

Lab ID: LCS 480-401359/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.8	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.8	83	76-120	
1,1,2-Trichloroethane	25.0	22.5	90	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.1	120	61-148	
1,1-Dichloroethane	25.0	26.6	106	77-120	
1,1-Dichloroethene	25.0	26.2	105	66-127	
1,2,4-Trichlorobenzene	25.0	27.7	111	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.4	86	56-134	
1,2-Dichlorobenzene	25.0	25.5	102	80-124	
1,2-Dichloroethane	25.0	21.7	87	75-120	
1,2-Dichloropropane	25.0	25.6	102	76-120	
1,3-Dichlorobenzene	25.0	25.3	101	77-120	
1,4-Dichlorobenzene	25.0	25.2	101	80-120	
2-Butanone (MEK)	125	93.1	74	57-140	
2-Hexanone	125	92.0	74	65-127	
4-Methyl-2-pentanone (MIBK)	125	96.0	77	71-125	
Acetone	125	103	82	56-142	
Benzene	25.0	25.8	103	71-124	
Bromodichloromethane	25.0	25.8	103	80-122	
Bromoform	25.0	22.2	89	61-132	
Bromomethane	25.0	20.7	83	55-144	
Carbon disulfide	25.0	26.4	105	59-134	
Carbon tetrachloride	25.0	27.6	111	72-134	
Chlorobenzene	25.0	25.3	101	80-120	
Dibromochloromethane	25.0	23.7	95	75-125	
Chloroethane	25.0	22.7	91	69-136	
Chloroform	25.0	25.0	100	73-127	
Chloromethane	25.0	24.2	97	68-124	
cis-1,2-Dichloroethene	25.0	26.6	106	74-124	
cis-1,3-Dichloropropene	25.0	25.3	101	74-124	
Cyclohexane	25.0	30.0	120	59-135	
Dichlorodifluoromethane	25.0	27.0	108	59-135	
Ethylbenzene	25.0	25.0	100	77-123	
1,2-Dibromoethane	25.0	21.9	88	77-120	
Isopropylbenzene	25.0	25.3	101	77-122	
Methyl acetate	50.0	35.9	72	74-133	*
Methyl tert-butyl ether	25.0	23.2	93	77-120	
Methylcyclohexane	25.0	29.7	119	68-134	
Methylene Chloride	25.0	24.4	98	75-124	
Styrene	25.0	25.0	100	80-120	
Tetrachloroethene	25.0	26.1	104	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7295.D

Lab ID: LCS 480-401359/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.6	99	80-122	
trans-1,2-Dichloroethene	25.0	26.2	105	73-127	
trans-1,3-Dichloropropene	25.0	24.0	96	80-120	
Trichloroethene	25.0	25.4	102	74-123	
Trichlorofluoromethane	25.0	25.8	103	62-150	
Vinyl chloride	25.0	24.2	97	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7311.D

Lab ID: LCS 480-401400/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.1	108	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.4	82	76-120	
1,1,2-Trichloroethane	25.0	22.0	88	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.3	121	61-148	
1,1-Dichloroethane	25.0	26.4	106	77-120	
1,1-Dichloroethene	25.0	26.8	107	66-127	
1,2,4-Trichlorobenzene	25.0	27.6	110	79-122	
1,2-Dibromo-3-Chloropropane	25.0	18.7	75	56-134	
1,2-Dichlorobenzene	25.0	25.3	101	80-124	
1,2-Dichloroethane	25.0	21.0	84	75-120	
1,2-Dichloropropane	25.0	26.5	106	76-120	
1,3-Dichlorobenzene	25.0	26.2	105	77-120	
1,4-Dichlorobenzene	25.0	25.6	102	80-120	
2-Butanone (MEK)	125	79.9	64	57-140	
2-Hexanone	125	85.1	68	65-127	
4-Methyl-2-pentanone (MIBK)	125	90.7	73	71-125	
Acetone	125	84.6	68	56-142	
Benzene	25.0	25.7	103	71-124	
Bromodichloromethane	25.0	25.3	101	80-122	
Bromoform	25.0	22.1	88	61-132	
Bromomethane	25.0	22.4	90	55-144	
Carbon disulfide	25.0	27.5	110	59-134	
Carbon tetrachloride	25.0	28.4	114	72-134	
Chlorobenzene	25.0	26.0	104	80-120	
Dibromochloromethane	25.0	24.3	97	75-125	
Chloroethane	25.0	24.0	96	69-136	
Chloroform	25.0	24.9	100	73-127	
Chloromethane	25.0	23.8	95	68-124	
cis-1,2-Dichloroethene	25.0	26.6	106	74-124	
cis-1,3-Dichloropropene	25.0	25.5	102	74-124	
Cyclohexane	25.0	30.8	123	59-135	
Dichlorodifluoromethane	25.0	26.6	106	59-135	
Ethylbenzene	25.0	25.9	103	77-123	
1,2-Dibromoethane	25.0	21.4	85	77-120	
Isopropylbenzene	25.0	26.6	107	77-122	
Methyl acetate	50.0	32.8	66	74-133	*
Methyl tert-butyl ether	25.0	22.4	90	77-120	
Methylcyclohexane	25.0	30.8	123	68-134	
Methylene Chloride	25.0	24.7	99	75-124	
Styrene	25.0	25.9	103	80-120	
Tetrachloroethene	25.0	26.2	105	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7311.D

Lab ID: LCS 480-401400/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.6	98	80-122	
trans-1,2-Dichloroethene	25.0	26.6	106	73-127	
trans-1,3-Dichloropropene	25.0	24.4	98	80-120	
Trichloroethene	25.0	25.8	103	74-123	
Trichlorofluoromethane	25.0	27.1	109	62-150	
Vinyl chloride	25.0	24.0	96	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7370.D

Lab ID: LCS 480-401795/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.0	88	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.7	103	76-120	
1,1,2-Trichloroethane	25.0	22.7	91	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	100	61-148	
1,1-Dichloroethane	25.0	23.0	92	77-120	
1,1-Dichloroethene	25.0	19.0	76	66-127	
1,2,4-Trichlorobenzene	25.0	22.9	92	79-122	
1,2-Dibromo-3-Chloropropane	25.0	27.4	109	56-134	
1,2-Dichlorobenzene	25.0	23.5	94	80-124	
1,2-Dichloroethane	25.0	22.3	89	75-120	
1,2-Dichloropropane	25.0	23.9	96	76-120	
1,3-Dichlorobenzene	25.0	23.4	94	77-120	
1,4-Dichlorobenzene	25.0	23.1	93	80-120	
2-Butanone (MEK)	125	115	92	57-140	
2-Hexanone	125	124	99	65-127	
4-Methyl-2-pentanone (MIBK)	125	123	98	71-125	
Acetone	125	93.0	74	56-142	
Benzene	25.0	22.6	91	71-124	
Bromodichloromethane	25.0	23.0	92	80-122	
Bromoform	25.0	24.9	100	61-132	
Bromomethane	25.0	22.2	89	55-144	
Carbon disulfide	25.0	23.8	95	59-134	
Carbon tetrachloride	25.0	22.9	92	72-134	
Chlorobenzene	25.0	22.9	91	80-120	
Dibromochloromethane	25.0	23.1	92	75-125	
Chloroethane	25.0	22.5	90	69-136	
Chloroform	25.0	22.3	89	73-127	
Chloromethane	25.0	23.6	94	68-124	
cis-1,2-Dichloroethene	25.0	23.2	93	74-124	
cis-1,3-Dichloropropene	25.0	23.9	96	74-124	
Cyclohexane	25.0	24.0	96	59-135	
Dichlorodifluoromethane	25.0	25.7	103	59-135	
Ethylbenzene	25.0	22.6	90	77-123	
1,2-Dibromoethane	25.0	23.5	94	77-120	
Isopropylbenzene	25.0	23.1	92	77-122	
Methyl acetate	50.0	43.1	86	74-133	
Methyl tert-butyl ether	25.0	22.1	88	77-120	
Methylcyclohexane	25.0	25.5	102	68-134	
Methylene Chloride	25.0	22.3	89	75-124	
Styrene	25.0	23.6	94	80-120	
Tetrachloroethene	25.0	22.8	91	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7370.D

Lab ID: LCS 480-401795/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	21.5	86	80-122	
trans-1,2-Dichloroethene	25.0	23.1	92	73-127	
trans-1,3-Dichloropropene	25.0	23.2	93	80-120	
Trichloroethene	25.0	22.9	92	74-123	
Trichlorofluoromethane	25.0	23.6	94	62-150	
Vinyl chloride	25.0	22.6	90	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: N7391.D

Lab ID: 480-131737-6 MS

Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	ND	133	106	73-126	
1,1,2,2-Tetrachloroethane	125	ND	139	111	76-120	
1,1,2-Trichloroethane	125	ND	132	106	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	ND	149	119	61-148	
1,1-Dichloroethane	125	9.4	141	106	77-120	
1,1-Dichloroethene	125	ND	132	105	66-127	
1,2,4-Trichlorobenzene	125	ND	133	106	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	163	131	56-134	
1,2-Dichlorobenzene	125	ND	132	105	80-124	
1,2-Dichloroethane	125	ND	120	96	75-120	
1,2-Dichloropropane	125	ND	138	110	76-120	
1,3-Dichlorobenzene	125	ND	131	105	77-120	
1,4-Dichlorobenzene	125	ND	129	103	78-124	
2-Butanone (MEK)	625	15 J	755	118	57-140	
2-Hexanone	625	ND	689	110	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	688	110	71-125	
Acetone	625	ND	568	91	56-142	
Benzene	125	8.6	140	105	71-124	
Bromodichloromethane	125	ND	131	105	80-122	
Bromoform	125	ND	132	106	61-132	
Bromomethane	125	ND	118	94	55-144	
Carbon disulfide	125	ND	133	107	59-134	
Carbon tetrachloride	125	ND	138	110	72-134	
Chlorobenzene	125	ND	128	102	80-120	
Dibromochloromethane	125	ND	132	105	75-125	
Chloroethane	125	110	238	104	69-136	
Chloroform	125	ND	127	102	73-127	
Chloromethane	125	ND	130	104	68-124	
cis-1,2-Dichloroethene	125	10	143	107	74-124	
cis-1,3-Dichloropropene	125	ND	127	101	74-124	
Cyclohexane	125	ND	149	119	59-135	
Dichlorodifluoromethane	125	ND	141	113	59-135	
Ethylbenzene	125	ND	131	105	77-123	
1,2-Dibromoethane	125	ND	136	109	77-120	
Isopropylbenzene	125	ND	139	111	77-122	
Methyl acetate	250	ND	252	101	74-133	
Methyl tert-butyl ether	125	2.7 J	129	101	77-120	
Methylcyclohexane	125	6.9	158	121	68-134	
Methylene Chloride	125	ND	132	105	75-124	
Styrene	125	ND	130	104	80-120	
Tetrachloroethene	125	ND	131	105	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7391.D
 Lab ID: 480-131737-6 MS Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	8.1	129	97	80-122	
trans-1,2-Dichloroethene	125	ND	135	108	73-127	
trans-1,3-Dichloropropene	125	ND	122	98	80-120	
Trichloroethene	125	ND	130	104	74-123	
Trichlorofluoromethane	125	ND	135	108	62-150	
Vinyl chloride	125	13	138	100	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: N7305.D

Lab ID: 480-131737-8 MS

Client ID: LBA-SBW-16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	250	ND	286	114	73-126	
1,1,2,2-Tetrachloroethane	250	ND	212	85	76-120	
1,1,2-Trichloroethane	250	ND	222	89	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	ND	303	121	61-148	
1,1-Dichloroethane	250	29	290	104	77-120	
1,1-Dichloroethene	250	ND	275	110	66-127	
1,2,4-Trichlorobenzene	250	ND	285	114	79-122	
1,2-Dibromo-3-Chloropropane	250	ND	210	84	56-134	
1,2-Dichlorobenzene	250	ND	264	106	80-124	
1,2-Dichloroethane	250	ND	216	87	75-120	
1,2-Dichloropropane	250	ND	257	103	76-120	
1,3-Dichlorobenzene	250	ND	269	108	77-120	
1,4-Dichlorobenzene	250	ND	261	105	78-124	
2-Butanone (MEK)	1250	ND	835	67	57-140	
2-Hexanone	1250	ND	857	69	65-127	
4-Methyl-2-pentanone (MIBK)	1250	ND	936	75	71-125	
Acetone	1250	ND	846	68	56-142	
Benzene	250	21	278	103	71-124	
Bromodichloromethane	250	ND	248	99	80-122	
Bromoform	250	ND	216	86	61-132	
Bromomethane	250	ND	223	89	55-144	
Carbon disulfide	250	ND	271	108	59-134	
Carbon tetrachloride	250	ND	288	115	72-134	
Chlorobenzene	250	ND	257	103	80-120	
Dibromochloromethane	250	ND	232	93	75-125	
Chloroethane	250	ND	245	98	69-136	
Chloroform	250	ND	255	102	73-127	
Chloromethane	250	ND	248	99	68-124	
cis-1,2-Dichloroethene	250	74	338	106	74-124	
cis-1,3-Dichloropropene	250	ND	249	100	74-124	
Cyclohexane	250	ND	315	126	59-135	
Dichlorodifluoromethane	250	ND	285	114	59-135	
Ethylbenzene	250	17	278	104	77-123	
1,2-Dibromoethane	250	ND	218	87	77-120	
Isopropylbenzene	250	37	318	113	77-122	
Methyl acetate	500	ND	329	66	74-133	F1
Methyl tert-butyl ether	250	42	267	90	77-120	
Methylcyclohexane	250	ND	306	122	68-134	
Methylene Chloride	250	ND	255	102	75-124	
Styrene	250	ND	259	104	80-120	
Tetrachloroethene	250	ND	261	104	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7305.D
 Lab ID: 480-131737-8 MS Client ID: LBA-SBW-16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	250	15	265	100	80-122	
trans-1,2-Dichloroethene	250	ND	273	109	73-127	
trans-1,3-Dichloropropene	250	ND	234	94	80-120	
Trichloroethene	250	ND	261	105	74-123	
Trichlorofluoromethane	250	ND	275	110	62-150	
Vinyl chloride	250	47	301	101	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: N7392.D

Lab ID: 480-131737-6 MSD

Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	125	129	103	3	15	73-126	
1,1,2,2-Tetrachloroethane	125	142	113	2	15	76-120	
1,1,2-Trichloroethane	125	129	103	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	147	118	1	20	61-148	
1,1-Dichloroethane	125	137	102	4	20	77-120	
1,1-Dichloroethene	125	126	101	5	16	66-127	
1,2,4-Trichlorobenzene	125	134	107	1	20	79-122	
1,2-Dibromo-3-Chloropropane	125	162	129	1	15	56-134	
1,2-Dichlorobenzene	125	132	105	0	20	80-124	
1,2-Dichloroethane	125	118	95	1	20	75-120	
1,2-Dichloropropane	125	132	106	4	20	76-120	
1,3-Dichlorobenzene	125	130	104	1	20	77-120	
1,4-Dichlorobenzene	125	129	103	0	20	78-124	
2-Butanone (MEK)	625	745	117	1	20	57-140	
2-Hexanone	625	703	113	2	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	695	111	1	35	71-125	
Acetone	625	634	101	11	15	56-142	
Benzene	125	135	101	4	13	71-124	
Bromodichloromethane	125	128	103	2	15	80-122	
Bromoform	125	135	108	2	15	61-132	
Bromomethane	125	116	93	2	15	55-144	
Carbon disulfide	125	127	102	5	15	59-134	
Carbon tetrachloride	125	130	104	6	15	72-134	
Chlorobenzene	125	129	103	1	25	80-120	
Dibromochloromethane	125	130	104	1	15	75-125	
Chloroethane	125	230	97	4	15	69-136	
Chloroform	125	123	98	4	20	73-127	
Chloromethane	125	125	100	4	15	68-124	
cis-1,2-Dichloroethene	125	136	101	5	15	74-124	
cis-1,3-Dichloropropene	125	126	101	1	15	74-124	
Cyclohexane	125	134	107	11	20	59-135	
Dichlorodifluoromethane	125	132	105	7	20	59-135	
Ethylbenzene	125	129	103	2	15	77-123	
1,2-Dibromoethane	125	132	106	3	15	77-120	
Isopropylbenzene	125	135	108	3	20	77-122	
Methyl acetate	250	258	103	2	20	74-133	
Methyl tert-butyl ether	125	127	100	2	37	77-120	
Methylcyclohexane	125	147	112	8	20	68-134	
Methylene Chloride	125	129	103	2	15	75-124	
Styrene	125	128	102	2	20	80-120	
Tetrachloroethene	125	129	103	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: N7392.D

Lab ID: 480-131737-6 MSD Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	125	129	97	0	15	80-122	
trans-1,2-Dichloroethene	125	130	104	4	20	73-127	
trans-1,3-Dichloropropene	125	122	97	1	15	80-120	
Trichloroethene	125	126	101	3	16	74-123	
Trichlorofluoromethane	125	126	101	6	20	62-150	
Vinyl chloride	125	134	96	3	15	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: N7306.D

Lab ID: 480-131737-8 MSD

Client ID: LBA-SBW-16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	250	275	110	4	15	73-126	
1,1,2,2-Tetrachloroethane	250	210	84	1	15	76-120	
1,1,2-Trichloroethane	250	230	92	4	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	308	123	1	20	61-148	
1,1-Dichloroethane	250	292	105	1	20	77-120	
1,1-Dichloroethene	250	269	108	2	16	66-127	
1,2,4-Trichlorobenzene	250	292	117	3	20	79-122	
1,2-Dibromo-3-Chloropropane	250	206	82	2	15	56-134	
1,2-Dichlorobenzene	250	267	107	1	20	80-124	
1,2-Dichloroethane	250	218	87	1	20	75-120	
1,2-Dichloropropane	250	257	103	0	20	76-120	
1,3-Dichlorobenzene	250	259	104	4	20	77-120	
1,4-Dichlorobenzene	250	265	106	1	20	78-124	
2-Butanone (MEK)	1250	831	66	1	20	57-140	
2-Hexanone	1250	848	68	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	1250	924	74	1	35	71-125	
Acetone	1250	854	68	1	15	56-142	
Benzene	250	279	103	0	13	71-124	
Bromodichloromethane	250	250	100	1	15	80-122	
Bromoform	250	218	87	1	15	61-132	
Bromomethane	250	226	91	1	15	55-144	
Carbon disulfide	250	270	108	1	15	59-134	
Carbon tetrachloride	250	285	114	1	15	72-134	
Chlorobenzene	250	259	104	1	25	80-120	
Dibromochloromethane	250	235	94	1	15	75-125	
Chloroethane	250	241	96	2	15	69-136	
Chloroform	250	248	99	3	20	73-127	
Chloromethane	250	246	98	1	15	68-124	
cis-1,2-Dichloroethene	250	331	103	2	15	74-124	
cis-1,3-Dichloropropene	250	248	99	1	15	74-124	
Cyclohexane	250	312	125	1	20	59-135	
Dichlorodifluoromethane	250	283	113	1	20	59-135	
Ethylbenzene	250	280	105	1	15	77-123	
1,2-Dibromoethane	250	220	88	1	15	77-120	
Isopropylbenzene	250	312	110	2	20	77-122	
Methyl acetate	500	331	66	1	20	74-133	F1
Methyl tert-butyl ether	250	264	89	1	37	77-120	
Methylcyclohexane	250	305	122	0	20	68-134	
Methylene Chloride	250	243	97	5	15	75-124	
Styrene	250	259	104	0	20	80-120	
Tetrachloroethene	250	264	106	1	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7306.D
 Lab ID: 480-131737-8 MSD Client ID: LBA-SBW-16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	250	264	100	0	15	80-122	
trans-1,2-Dichloroethene	250	261	104	4	20	73-127	
trans-1,3-Dichloropropene	250	239	95	2	15	80-120	
Trichloroethene	250	258	103	1	16	74-123	
Trichlorofluoromethane	250	275	110	0	20	62-150	
Vinyl chloride	250	294	99	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: S7856.D Lab Sample ID: MB 480-401358/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 02/25/2018 10:48
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-401358/5	S7854.D	02/25/2018 10:01
ML-2S	480-131737-1	S7864.D	02/25/2018 14:35
ML-2D	480-131737-3	S7866.D	02/25/2018 15:22
ML-7D	480-131737-5	S7868.D	02/25/2018 16:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7297.D Lab Sample ID: MB 480-401359/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 02/25/2018 11:12
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-401359/5	N7295.D	02/25/2018 10:19
LBA-SBW-16	480-131737-8	N7304.D	02/25/2018 14:47
LBA-SBW-16 MS	480-131737-8 MS	N7305.D	02/25/2018 15:14
LBA-SBW-16 MSD	480-131737-8 MSD	N7306.D	02/25/2018 15:40

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7313.D Lab Sample ID: MB 480-401400/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 02/26/2018 11:04
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-401400/5	N7311.D	02/26/2018 10:11
ML-2I	480-131737-2	N7316.D	02/26/2018 13:52

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7372.D Lab Sample ID: MB 480-401795/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 02/28/2018 10:56
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-401795/5	N7370.D	02/28/2018 10:01
ML-7I	480-131737-4	N7373.D	02/28/2018 11:37
LBA-SBW-15	480-131737-6	N7374.D	02/28/2018 12:04
DUPE	480-131737-7	N7375.D	02/28/2018 12:31
LBA-SBW-15 MS	480-131737-6 MS	N7391.D	02/28/2018 19:45
LBA-SBW-15 MSD	480-131737-6 MSD	N7392.D	02/28/2018 20:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N6811.D BFB Injection Date: 01/31/2018
 Instrument ID: HP5973N BFB Injection Time: 14:31
 Analysis Batch No.: 398122

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	31.3
75	30.0 - 60.0 % of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	87.4
175	5.0 - 9.0 % of mass 174	5.8 (6.7) 1
176	95.0 - 101.0 % of mass 174	84.4 (96.6) 1
177	5.0 - 9.0 % of mass 176	5.6 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-398122/7	N6813.D	01/31/2018	15:32
	IC 480-398122/8	N6814.D	01/31/2018	15:59
	IC 480-398122/9	N6815.D	01/31/2018	16:26
	IC 480-398122/10	N6816.D	01/31/2018	16:52
	IC 480-398122/11	N6817.D	01/31/2018	17:20
	ICIS 480-398122/12	N6818.D	01/31/2018	17:46
	IC 480-398122/13	N6819.D	01/31/2018	18:13
	IC 480-398122/14	N6820.D	01/31/2018	18:40
	IC 480-398122/19	N6825.D	01/31/2018	20:53
	IC 480-398122/20	N6826.D	01/31/2018	21:20
	IC 480-398122/21	N6827.D	01/31/2018	21:47
	IC 480-398122/22	N6828.D	01/31/2018	22:14
	IC 480-398122/23	N6829.D	01/31/2018	22:41
	IC 480-398122/24	N6830.D	01/31/2018	23:09
	IC 480-398122/25	N6831.D	01/31/2018	23:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7292.D BFB Injection Date: 02/25/2018
 Instrument ID: HP5973N BFB Injection Time: 09:01
 Analysis Batch No.: 401359

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.0	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.1	(0.1) 1
174	50.0 - 120.00 % of mass 95	85.6	
175	5.0 - 9.0 % of mass 174	7.1	(8.3) 1
176	95.0 - 101.0 % of mass 174	81.5	(95.2) 1
177	5.0 - 9.0 % of mass 176	6.1	(7.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401359/3	N7293.D	02/25/2018	09:25
	LCS 480-401359/5	N7295.D	02/25/2018	10:19
	MB 480-401359/7	N7297.D	02/25/2018	11:12
LBA-SBW-16	480-131737-8	N7304.D	02/25/2018	14:47
LBA-SBW-16 MS	480-131737-8 MS	N7305.D	02/25/2018	15:14
LBA-SBW-16 MSD	480-131737-8 MSD	N7306.D	02/25/2018	15:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7308.D BFB Injection Date: 02/26/2018
 Instrument ID: HP5973N BFB Injection Time: 08:52
 Analysis Batch No.: 401400

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.9	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	85.0	
175	5.0 - 9.0 % of mass 174	7.1	(8.3) 1
176	95.0 - 101.0 % of mass 174	81.9	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401400/3	N7309.D	02/26/2018	09:17
	LCS 480-401400/5	N7311.D	02/26/2018	10:11
	MB 480-401400/7	N7313.D	02/26/2018	11:04
ML-2I	480-131737-2	N7316.D	02/26/2018	13:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7367.D BFB Injection Date: 02/28/2018
 Instrument ID: HP5973N BFB Injection Time: 08:43
 Analysis Batch No.: 401795

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	32.0
75	30.0 - 60.0 % of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	81.4
175	5.0 - 9.0 % of mass 174	6.8 (8.4) 1
176	95.0 - 101.0 % of mass 174	80.6 (99.0) 1
177	5.0 - 9.0 % of mass 176	5.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401795/3	N7368.D	02/28/2018	09:07
	CCV 480-401795/4	N7369.D	02/28/2018	09:34
	LCS 480-401795/5	N7370.D	02/28/2018	10:01
	MB 480-401795/7	N7372.D	02/28/2018	10:56
ML-7I	480-131737-4	N7373.D	02/28/2018	11:37
LBA-SBW-15	480-131737-6	N7374.D	02/28/2018	12:04
DUPE	480-131737-7	N7375.D	02/28/2018	12:31
LBA-SBW-15 MS	480-131737-6 MS	N7391.D	02/28/2018	19:45
LBA-SBW-15 MSD	480-131737-6 MSD	N7392.D	02/28/2018	20:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: S6361.D BFB Injection Date: 01/09/2018
 Instrument ID: HP5973S BFB Injection Time: 23:52
 Analysis Batch No.: 395114

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.2
75	30.0 - 60.0 % of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	84.1
175	5.0 - 9.0 % of mass 174	6.7 (8.0) 1
176	95.0 - 101.0 % of mass 174	84.2 (100.1) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-395114/4	S6363.D	01/10/2018	00:42
	IC 480-395114/5	S6364.D	01/10/2018	01:05
	IC 480-395114/6	S6365.D	01/10/2018	01:28
	IC 480-395114/7	S6366.D	01/10/2018	01:51
	IC 480-395114/8	S6367.D	01/10/2018	02:15
	ICIS 480-395114/9	S6368.D	01/10/2018	02:38
	IC 480-395114/10	S6369.D	01/10/2018	03:01
	IC 480-395114/11	S6370.D	01/10/2018	03:24
	IC 480-395114/16	S6375.D	01/10/2018	05:21
	IC 480-395114/17	S6376.D	01/10/2018	05:44
	IC 480-395114/18	S6377.D	01/10/2018	06:07
	IC 480-395114/19	S6378.D	01/10/2018	06:31
	IC 480-395114/20	S6379.D	01/10/2018	06:54
	IC 480-395114/21	S6380.D	01/10/2018	07:17
	IC 480-395114/22	S6381.D	01/10/2018	07:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: S7851.D BFB Injection Date: 02/25/2018
 Instrument ID: HP5973S BFB Injection Time: 08:46
 Analysis Batch No.: 401358

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.7
75	30.0 - 60.0 % of mass 95	47.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	85.2
175	5.0 - 9.0 % of mass 174	6.3 (7.4) 1
176	95.0 - 101.0 % of mass 174	84.7 (99.5) 1
177	5.0 - 9.0 % of mass 176	6.3 (7.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401358/3	S7852.D	02/25/2018	09:15
	CCV 480-401358/4	S7853.D	02/25/2018	09:38
	LCS 480-401358/5	S7854.D	02/25/2018	10:01
	MB 480-401358/7	S7856.D	02/25/2018	10:48
ML-2S	480-131737-1	S7864.D	02/25/2018	14:35
ML-2D	480-131737-3	S7866.D	02/25/2018	15:22
ML-7D	480-131737-5	S7868.D	02/25/2018	16:08

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: ICIS 480-398122/12 Date Analyzed: 01/31/2018 17:46
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N6818.D Heated Purge: (Y/N) N
 Calibration ID: 32733

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	211199	5.41	794111	8.39	411009	10.78
UPPER LIMIT	422398	5.91	1588222	8.89	822018	11.28
LOWER LIMIT	105600	4.91	397056	7.89	205505	10.28
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-401359/3	207849	5.41	749253	8.39	411621	10.79
CCVIS 480-401400/3	201500	5.41	755370	8.39	402541	10.79
CCVIS 480-401795/3	185318	5.41	707191	8.39	372649	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401359/3 Date Analyzed: 02/25/2018 09:25
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N7293.D Heated Purge: (Y/N) N
 Calibration ID: 32731

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	207849	5.41	749253	8.39	411621	10.79	
UPPER LIMIT	415698	5.91	1498506	8.89	823242	11.29	
LOWER LIMIT	103925	4.91	374627	7.89	205811	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-401359/5	206547	5.41	774145	8.39	412147	10.78	
MB 480-401359/7	199047	5.41	740273	8.39	405611	10.78	
480-131737-8	LBA-SBW-16	200034	5.40	721031	8.39	398444	10.78
480-131737-8 MS	LBA-SBW-16 MS	201965	5.41	748514	8.39	381302	10.78
480-131737-8 MSD	LBA-SBW-16 MSD	201788	5.41	732186	8.39	383075	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401400/3 Date Analyzed: 02/26/2018 09:17
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N7309.D Heated Purge: (Y/N) N
 Calibration ID: 32731

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	201500	5.41	755370	8.39	402541	10.79	
UPPER LIMIT	403000	5.91	1510740	8.89	805082	11.29	
LOWER LIMIT	100750	4.91	377685	7.89	201271	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-401400/5	211319	5.40	782137	8.39	410514	10.78	
MB 480-401400/7	202407	5.40	762080	8.39	391255	10.78	
480-131737-2	ML-2I	195909	5.40	750611	8.39	394363	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401795/3 Date Analyzed: 02/28/2018 09:07
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N7368.D Heated Purge: (Y/N) N
 Calibration ID: 32731

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	185318	5.41	707191	8.39	372649	10.78	
UPPER LIMIT	370636	5.91	1414382	8.89	745298	11.28	
LOWER LIMIT	92659	4.91	353596	7.89	186325	10.28	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-401795/4	181213	5.41	723114	8.39	367866	10.79	
LCS 480-401795/5	184269	5.41	716659	8.39	370613	10.78	
MB 480-401795/7	173080	5.41	680443	8.39	340516	10.78	
480-131737-4	ML-7I	179337	5.41	654452	8.39	342300	10.78
480-131737-6	LBA-SBW-15	186291	5.41	687579	8.39	346526	10.79
480-131737-7	DUPE	180845	5.41	678933	8.39	347811	10.78
480-131737-6 MS	LBA-SBW-15 MS	174611	5.41	688765	8.39	354854	10.78
480-131737-6 MSD	LBA-SBW-15 MSD	177435	5.41	683237	8.39	354130	10.79

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: ICIS 480-395114/9 Date Analyzed: 01/10/2018 02:38
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S6368.D Heated Purge: (Y/N) N
 Calibration ID: 32523

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	166664	5.55	342336	8.55	365955	10.92
UPPER LIMIT	333328	6.05	684672	9.05	731910	11.42
LOWER LIMIT	83332	5.05	171168	8.05	182978	10.42
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-401358/3	135557	5.41	292916	8.41	318534	10.80

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401358/3 Date Analyzed: 02/25/2018 09:15
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S7852.D Heated Purge: (Y/N) N
 Calibration ID: 32526

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	135557	5.41	292916	8.41	318534	10.80	
UPPER LIMIT	271114	5.91	585832	8.91	637068	11.30	
LOWER LIMIT	67779	4.91	146458	7.91	159267	10.30	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-401358/4		139827	5.42	286894	8.41	298862	10.80
LCS 480-401358/5		135806	5.42	293212	8.41	309734	10.80
MB 480-401358/7		128021	5.42	266989	8.41	274080	10.80
480-131737-1	ML-2S	121198	5.41	257395	8.41	276337	10.80
480-131737-3	ML-2D	124150	5.42	265950	8.41	283218	10.80
480-131737-5	ML-7D	123256	5.41	261122	8.41	268162	10.80

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: S7864.D
 Analysis Method: 8260C Date Collected: 02/21/2018 13:05
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	24		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	ND		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	17		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	54		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: S7864.D
 Analysis Method: 8260C Date Collected: 02/21/2018 13:05
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	56		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	430		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: S7864.D
 Analysis Method: 8260C Date Collected: 02/21/2018 13:05
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 4 TIC Result Total: 304

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
526-73-8	Benzene, 1,2,3-trimethyl-	10.07	33	T J N	95%
108-67-8	Benzene, 1,3,5-trimethyl-	10.44	150	T J N	95%
95-63-6	Benzene, 1,2,4-trimethyl-	10.85	93	T J N	94%
	Unknown	11.04	28	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D
 Lims ID: 480-131737-F-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 25-Feb-2018 14:35:30 ALS Bottle#: 8 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-1
 Misc. Info.: 480-0069476-016
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 13:17:04 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: moffata

Date: 26-Feb-2018 14:54:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.412	5.412	0.000	99	121198	25.0	
* 2 Chlorobenzene-d5	82	8.405	8.406	-0.001	82	257395	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	93	276337	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.828	0.000	58	149927	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.139	5.139	0.000	0	94133	25.3	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	92	648990	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	95	222853	24.9	
10 Dichlorodifluoromethane	85		1.245				ND	
12 Chloromethane	50		1.416				ND	
13 Vinyl chloride	62		1.501				ND	
14 Bromomethane	94		1.817				ND	
15 Chloroethane	64		1.896				ND	
17 Trichlorofluoromethane	101		2.127				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.626				ND	
22 1,1-Dichloroethene	96		2.638				ND	
23 Acetone	43		2.766				ND	
26 Carbon disulfide	76		2.839				ND	
27 Methyl acetate	43		3.064				ND	
30 Methylene Chloride	84	3.155	3.155	0.000	34	905	0.1358	
32 Methyl tert-butyl ether	73	3.387	3.381	0.006	85	109898	5.59	
34 trans-1,2-Dichloroethene	96		3.387				ND	
39 1,1-Dichloroethane	63		3.806				ND	
45 cis-1,2-Dichloroethene	96		4.360				ND	
43 2-Butanone (MEK)	43		4.403				ND	
50 Chloroform	83		4.670				ND	
51 1,1,1-Trichloroethane	97		4.792				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.932				ND	
57 Benzene	78	5.145	5.145	0.000	60	59518	2.37	
58 1,2-Dichloroethane	62		5.206				ND	
62 Trichloroethene	95		5.759				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.887				ND	
65 1,2-Dichloropropane	63		5.990				ND	
68 Dichlorobromomethane	83		6.282				ND	
72 cis-1,3-Dichloropropene	75		6.702				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.842				ND	
74 Toluene	92		6.994				ND	
77 trans-1,3-Dichloropropene	75		7.268				ND	
79 1,1,2-Trichloroethane	83		7.457				ND	
81 Tetrachloroethene	166		7.523				ND	
80 2-Hexanone	43		7.682				ND	
83 Chlorodibromomethane	129		7.852				ND	
84 Ethylene Dibromide	107		7.955				ND	
87 Chlorobenzene	112		8.436				ND	
88 Ethylbenzene	91	8.533	8.533	0.000	90	52418	1.67	
90 m-Xylene & p-Xylene	106	8.649	8.655	-0.006	0	547914	42.2	
91 o-Xylene	106	9.075	9.081	-0.006	75	9502	0.7825	
92 Styrene	104		9.105				ND	
95 Bromoform	173		9.349				ND	
94 Isopropylbenzene	105	9.464	9.459	0.000	94	170934	5.36	
97 1,1,2,2-Tetrachloroethane	83		9.853				ND	
111 1,3-Dichlorobenzene	146		10.730				ND	
113 1,4-Dichlorobenzene	146		10.815				ND	
116 1,2-Dichlorobenzene	146		11.168				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.891				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 124 Xylenes, Total	1				0		43.0	

Reagents:

S_8260_IS_00282

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00253

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D
 Lims ID: 480-131737-F-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 25-Feb-2018 14:35:30 ALS Bottle#: 8 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-1
 Misc. Info.: 480-0069476-016
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 13:17:04 Calib Date: 10-Jan-2018 07:40:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022
 First Level Reviewer: moffata Date: 26-Feb-2018 14:54:41

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
10.066	208067	3.34	3	95	119303	C9H12	120	I
10.437	912510	14.7	3	95	119299	C9H12	120	
10.845	575874	9.25	3	94	46773	C9H12	120	I
11.040	173671	2.79	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 3 1,4-Dichlorobenzene-d4	10.796	1556155	25.0

QC Flag Legend

Processing Flags

Review Flags

I - User Selected Library Match

Reagents:

S_8260_IS_00282 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00253 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Worklist Smp#: 16

Client ID: ML-2S

Purge Vol: 5.000 mL

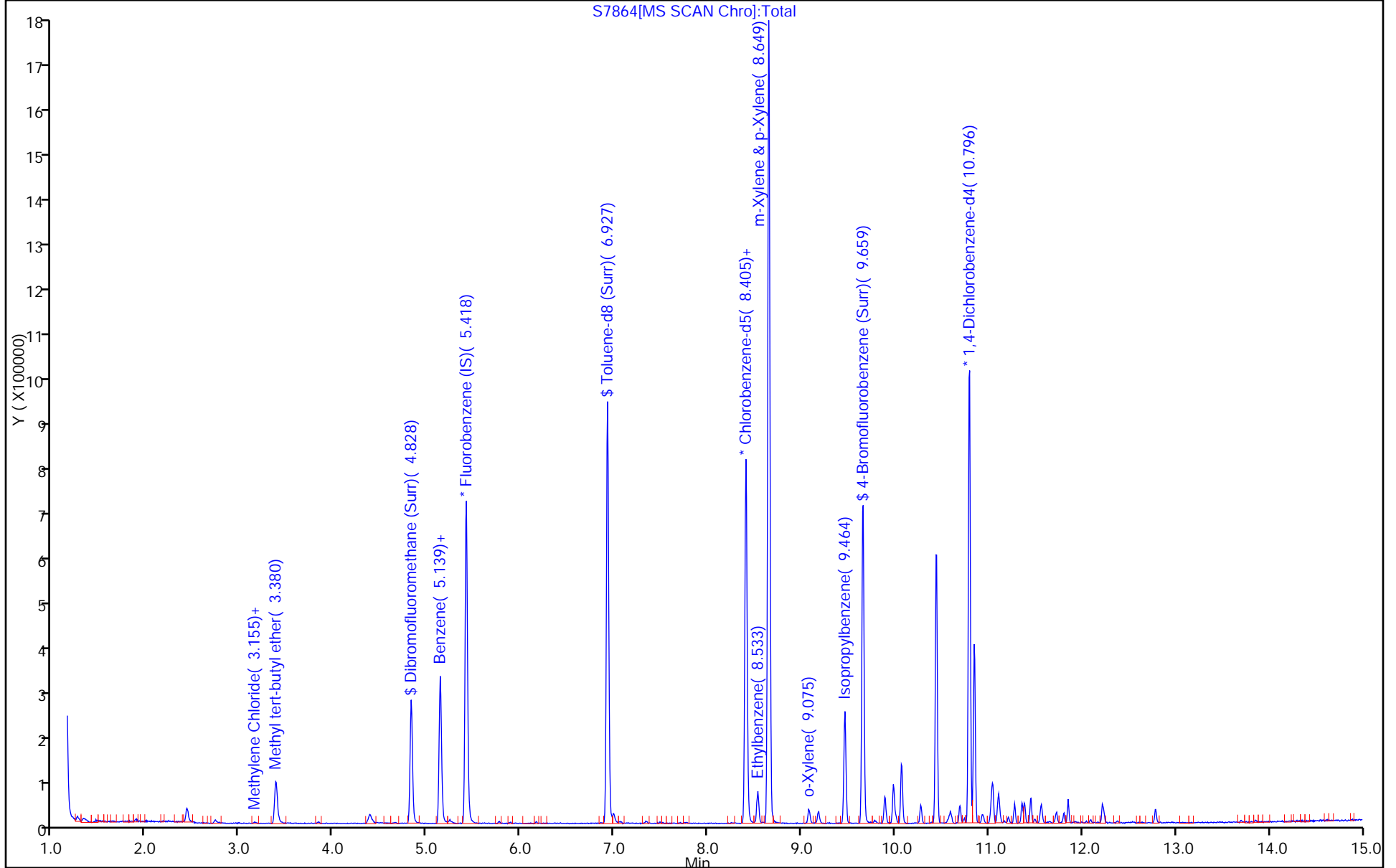
Dil. Factor: 10.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

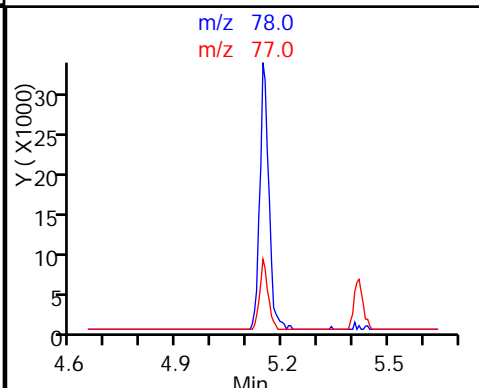
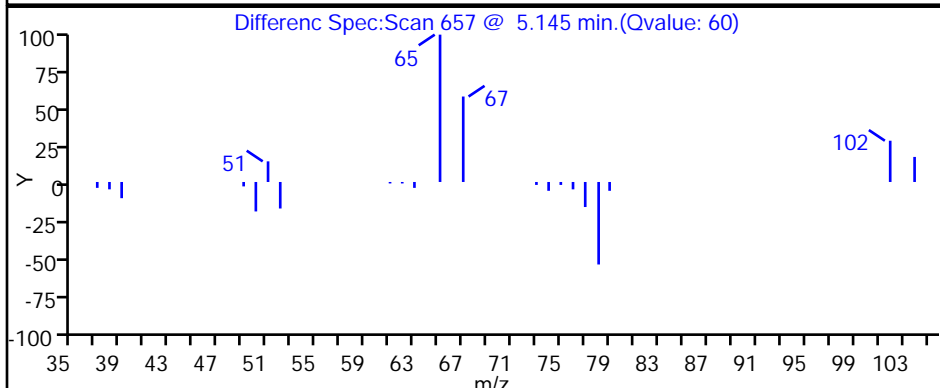
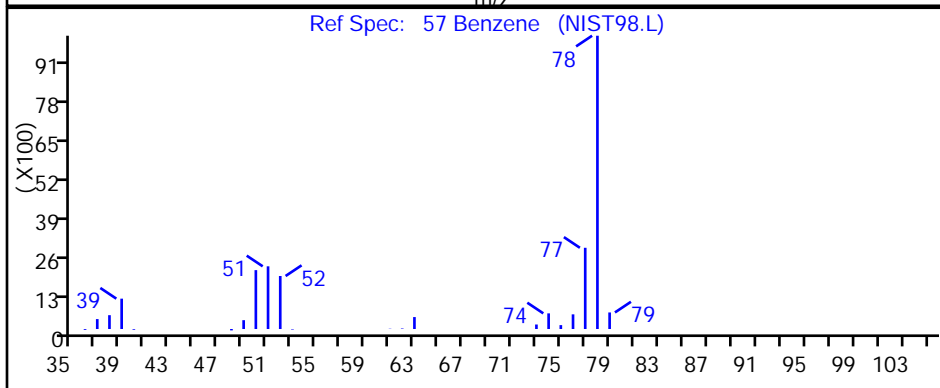
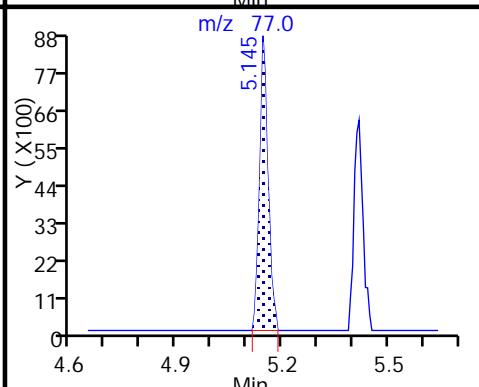
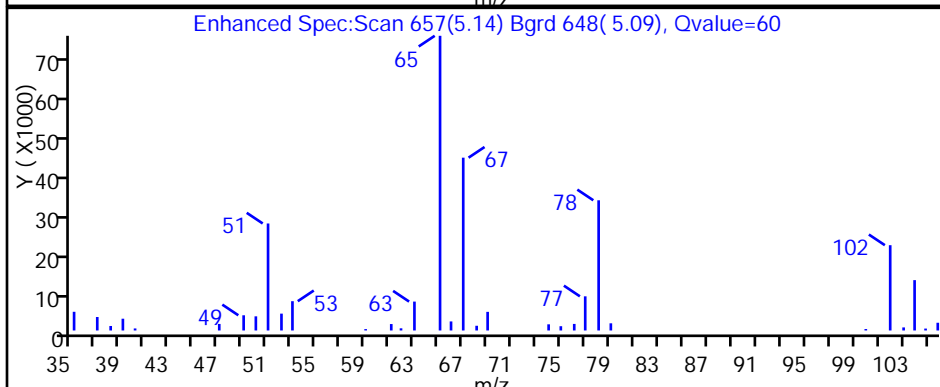
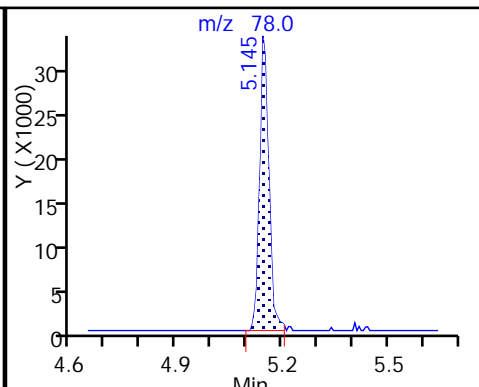
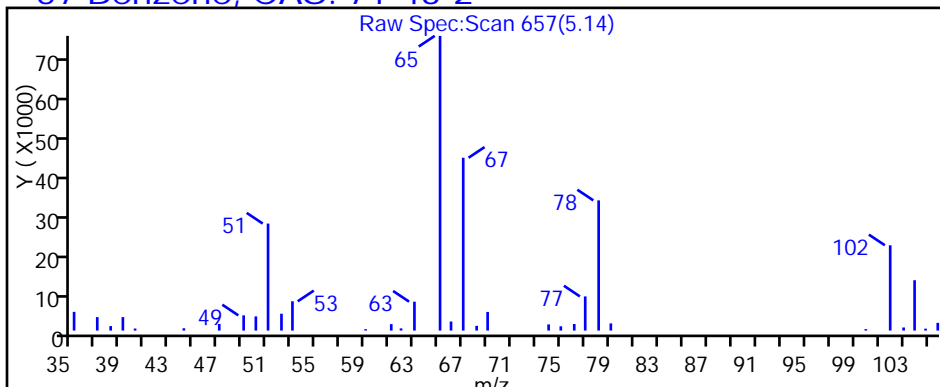
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

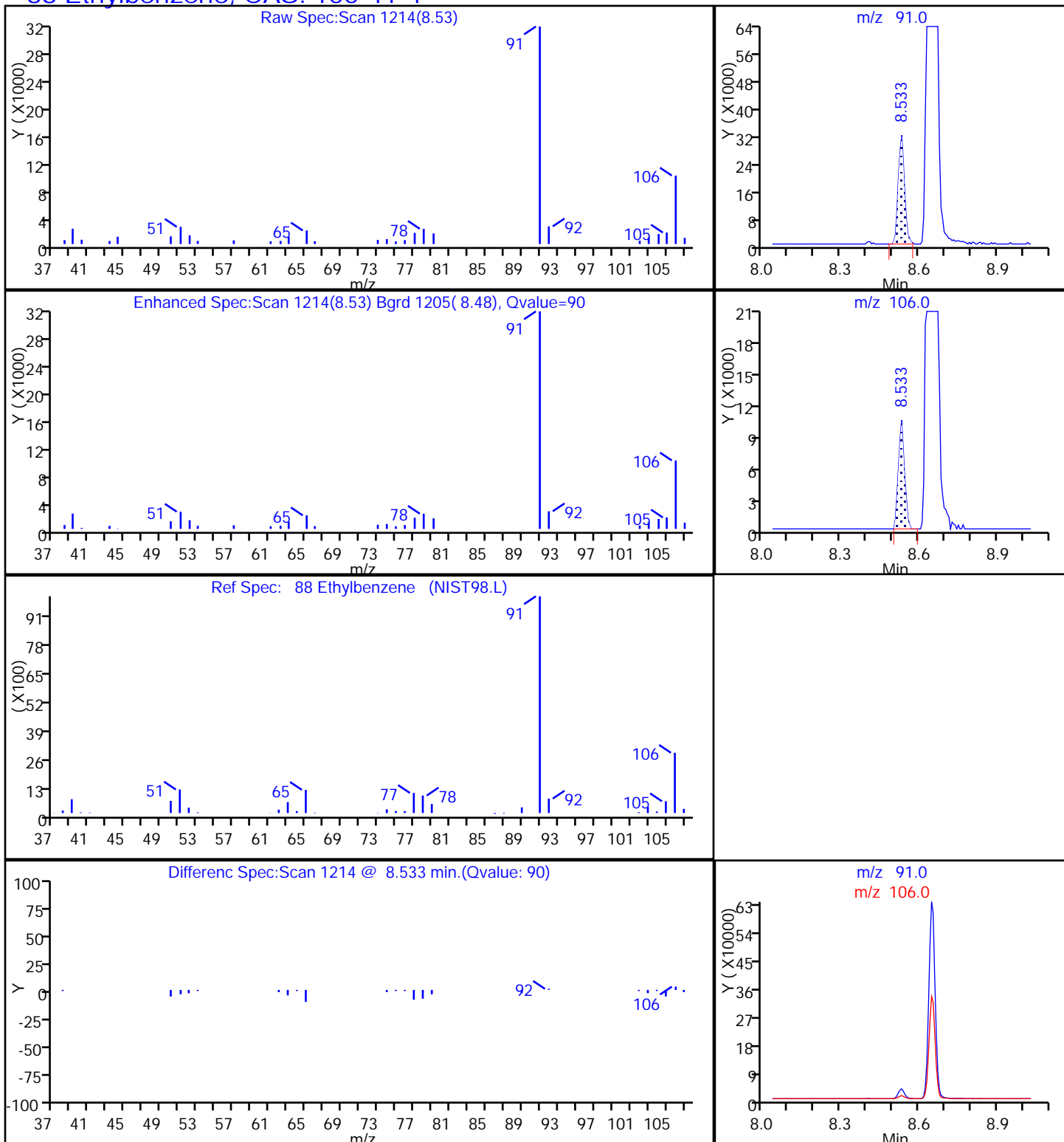
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

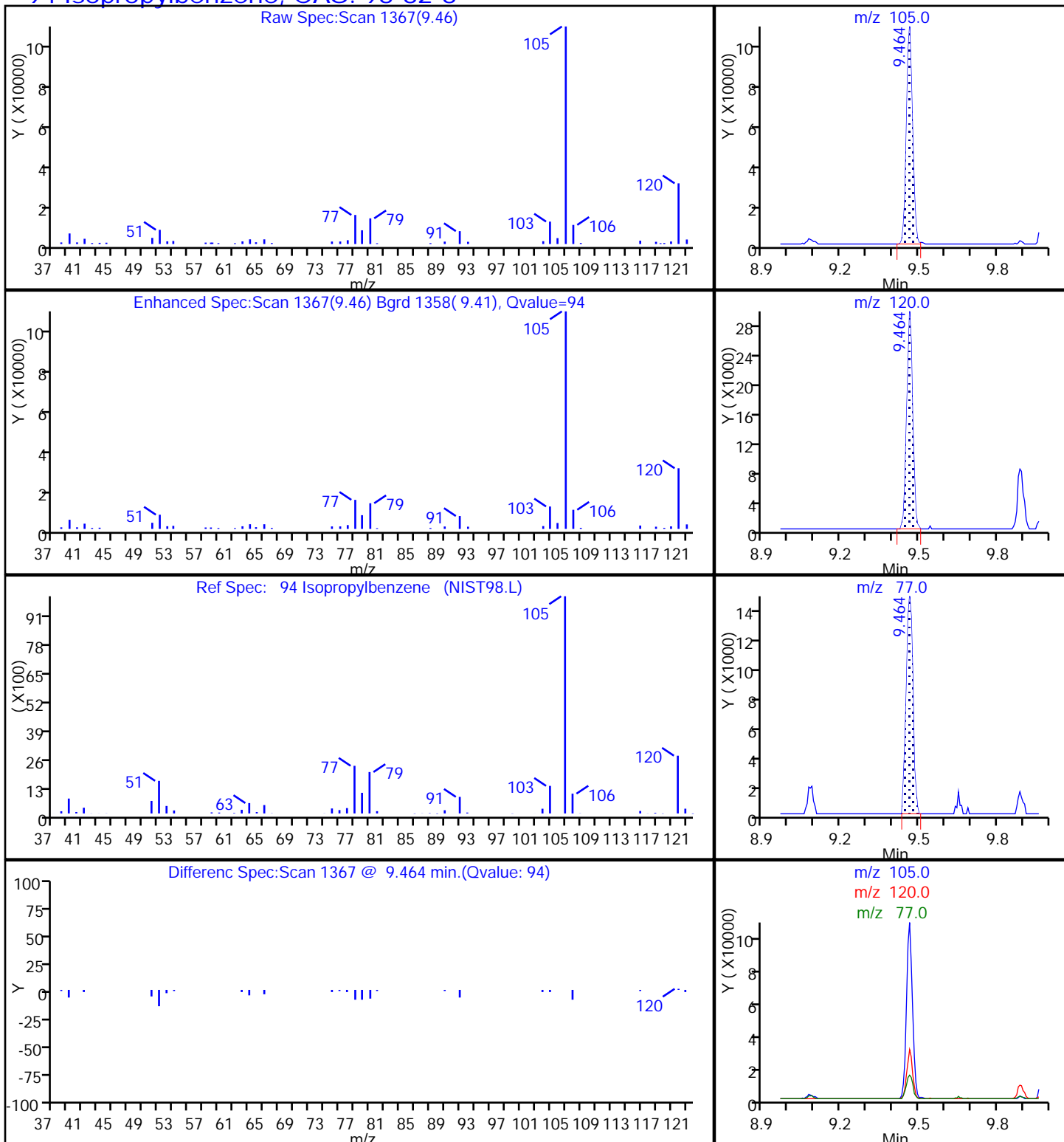
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

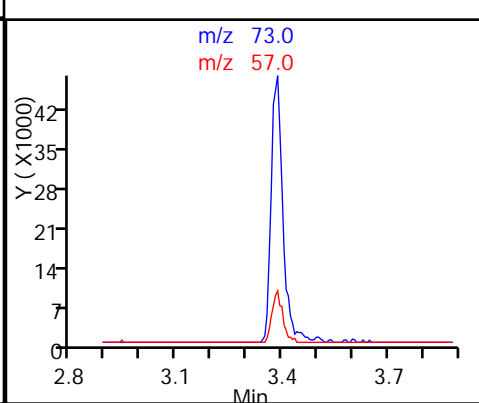
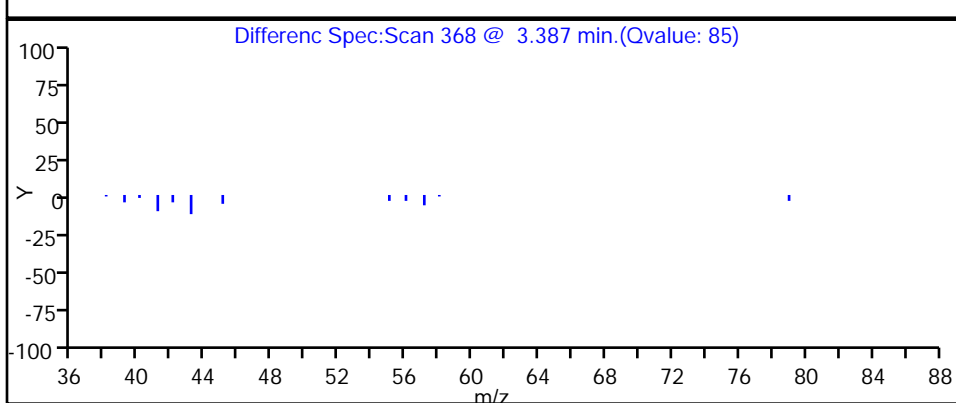
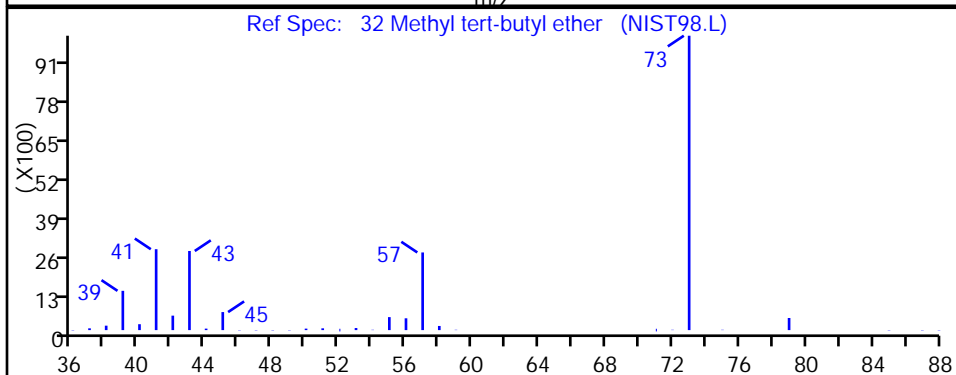
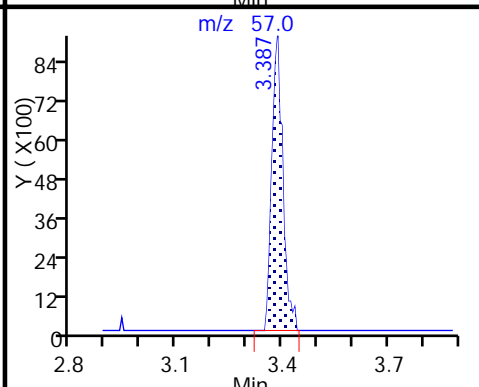
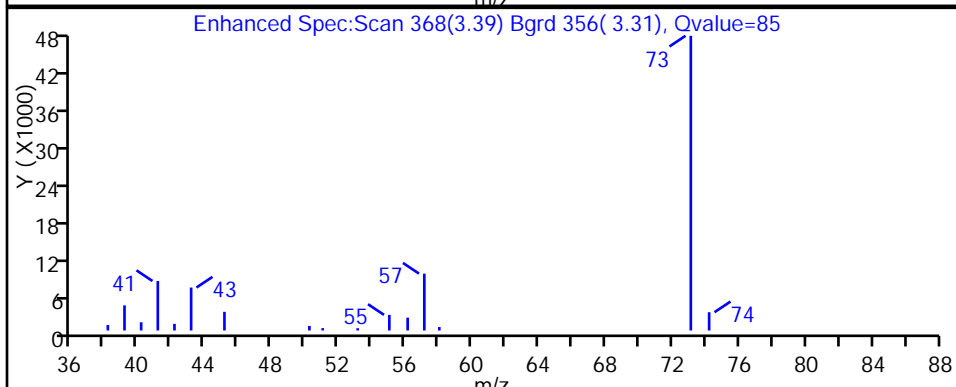
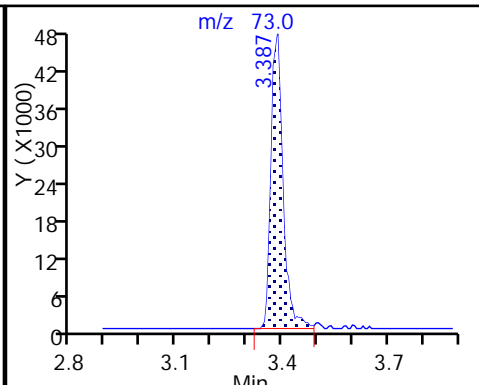
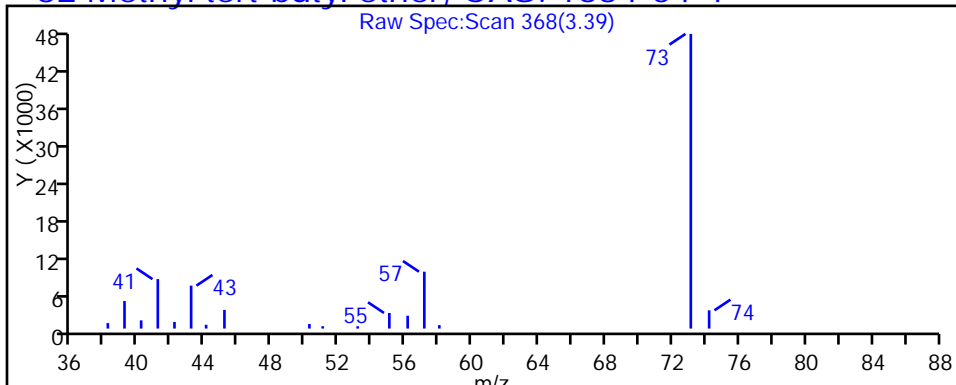
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

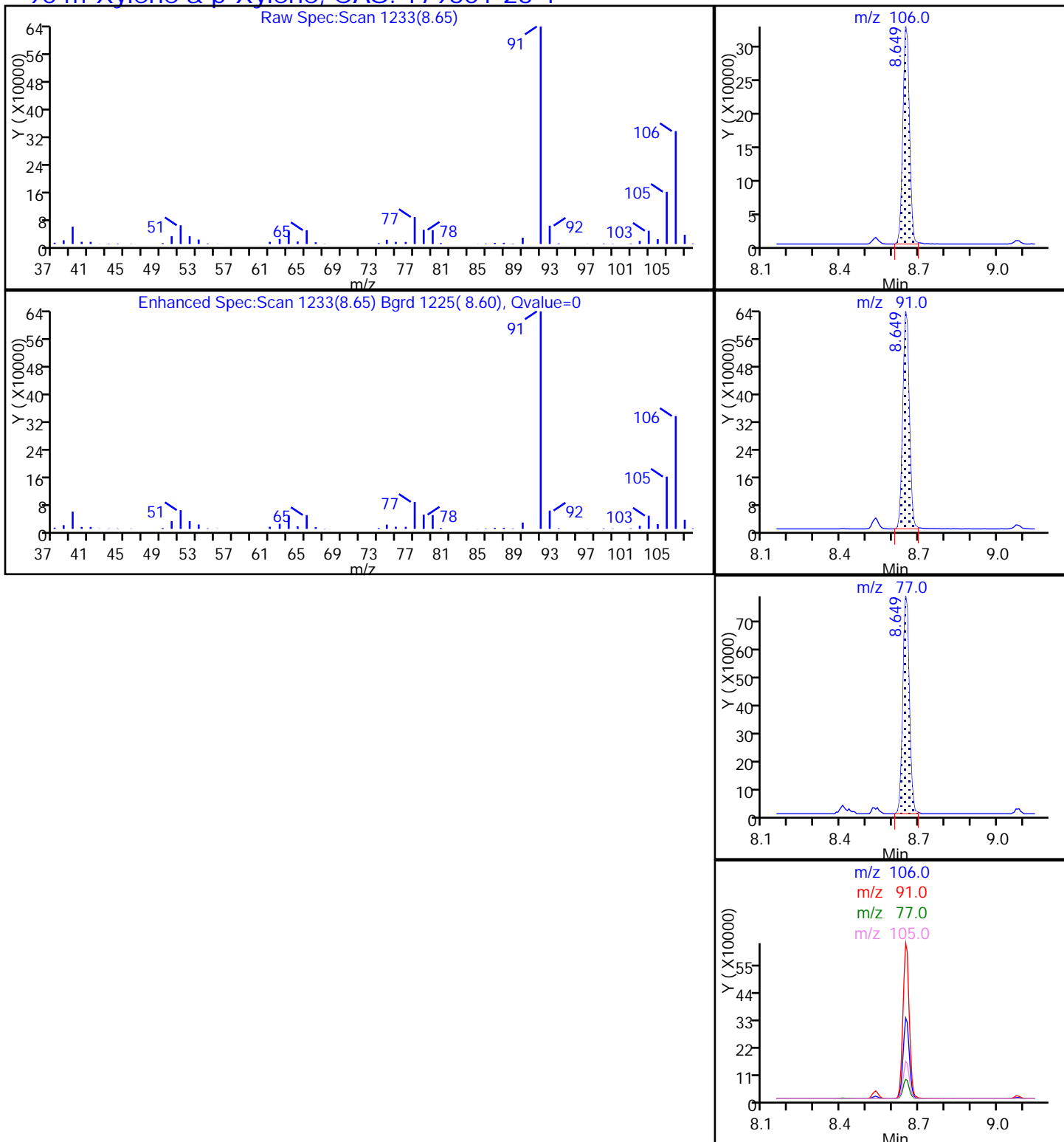
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

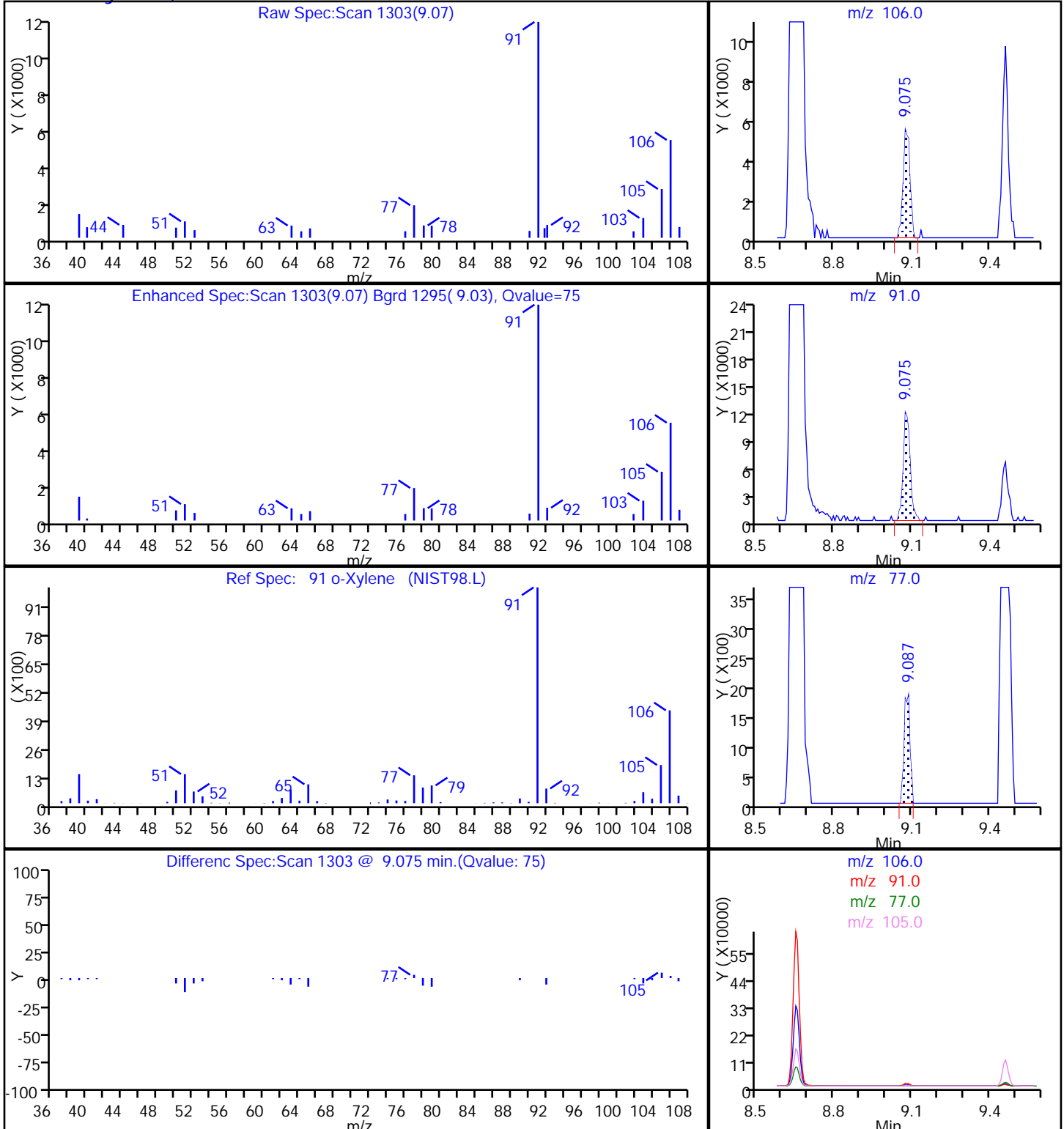
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

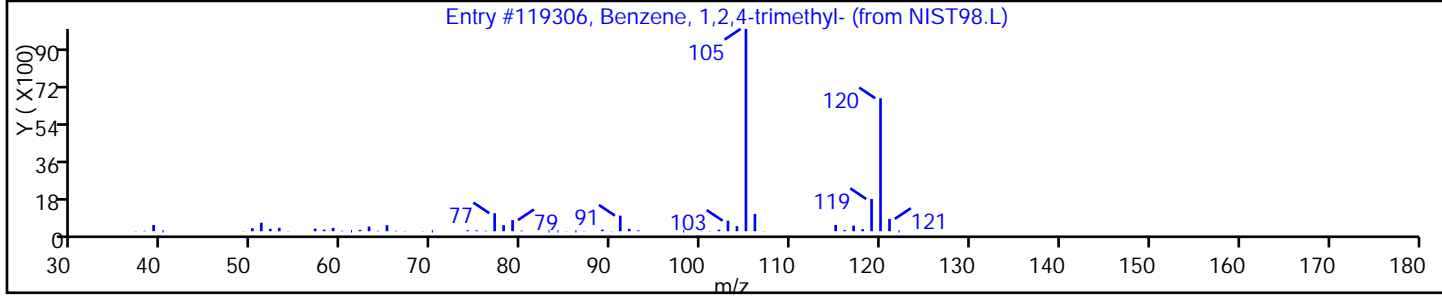
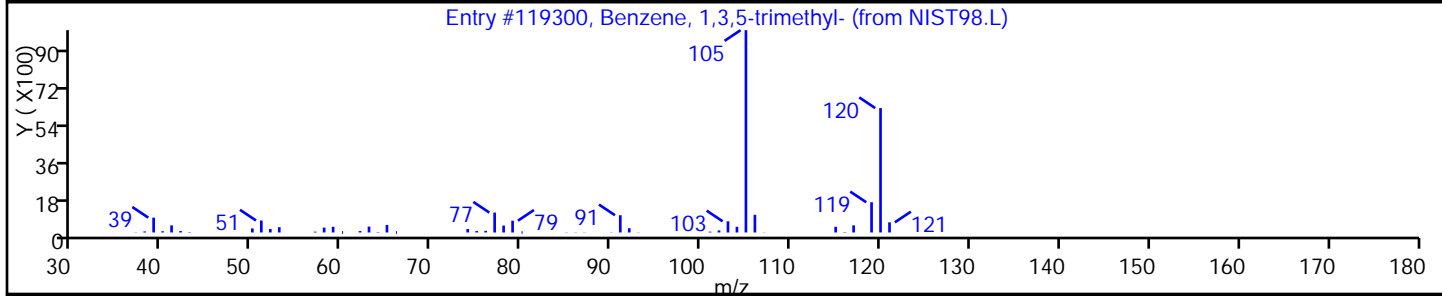
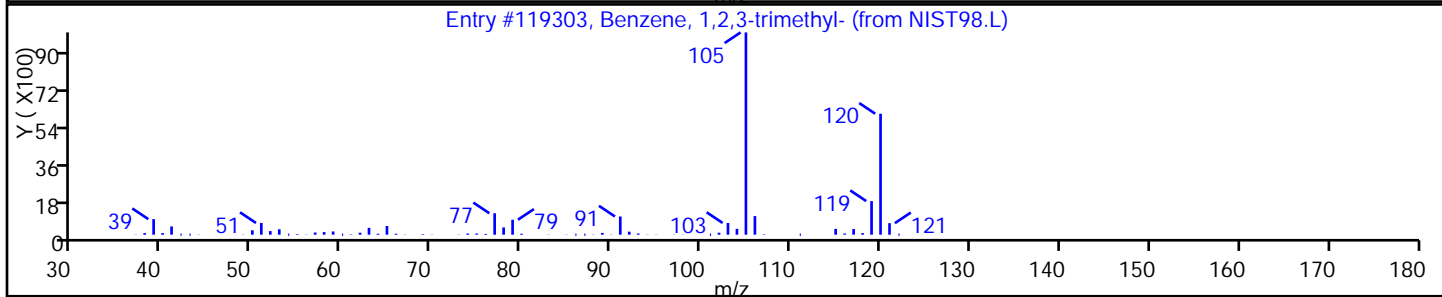
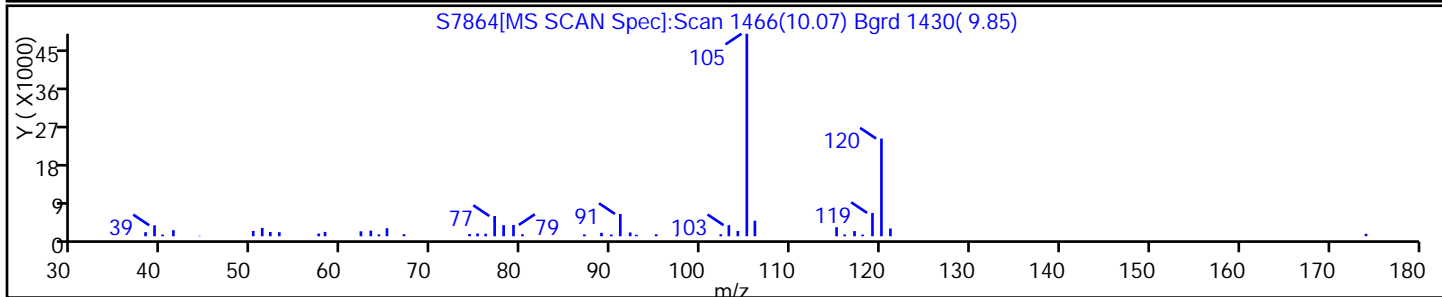
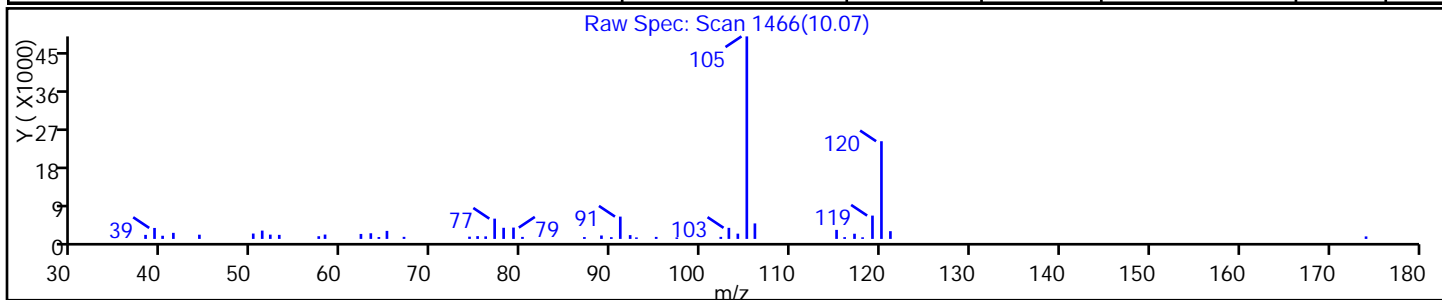
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119300	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119306	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

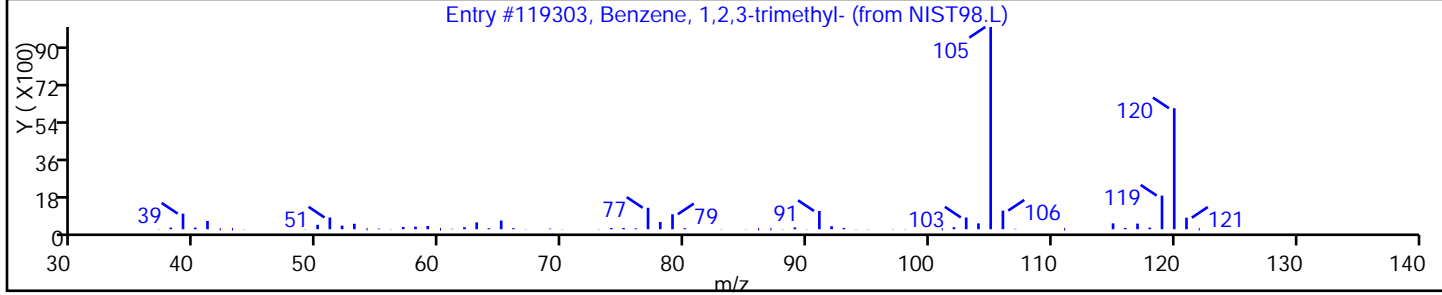
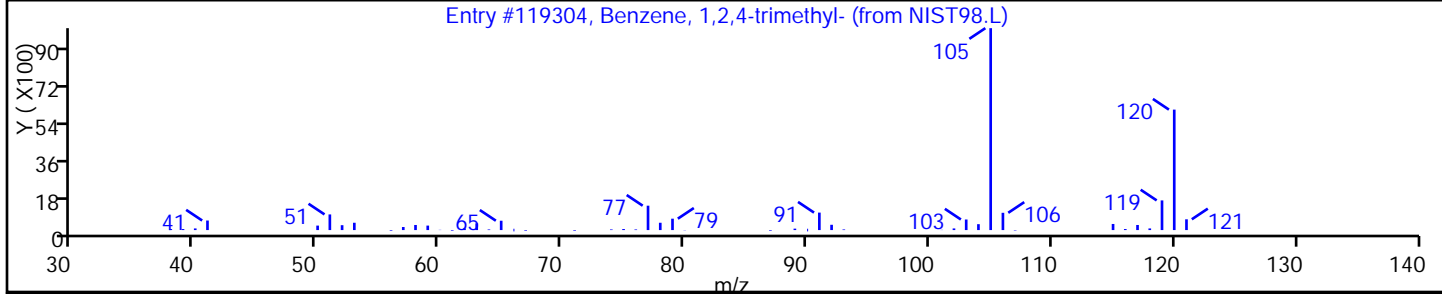
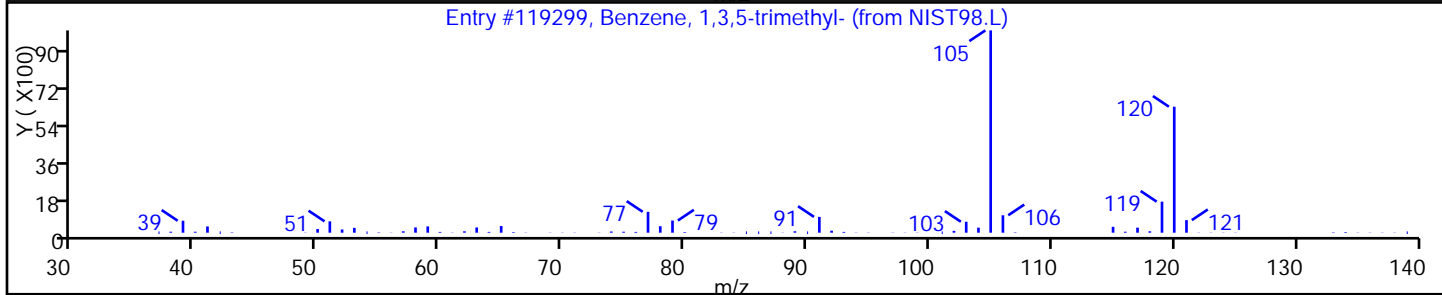
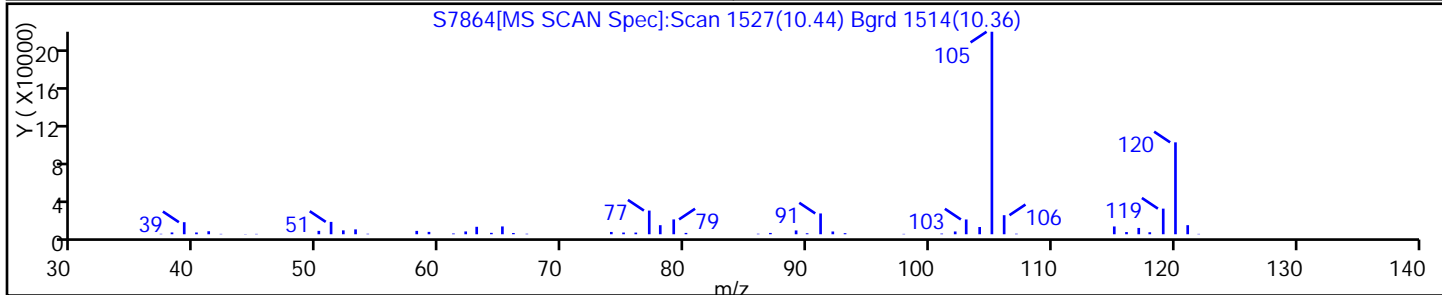
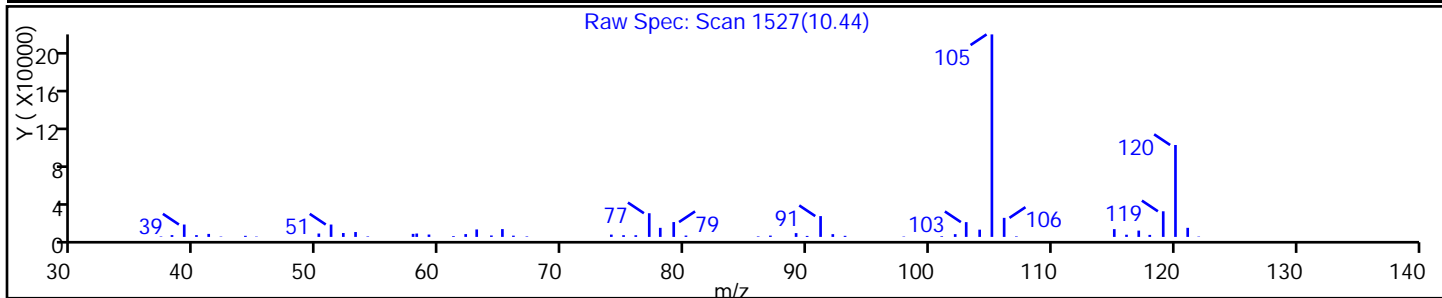
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

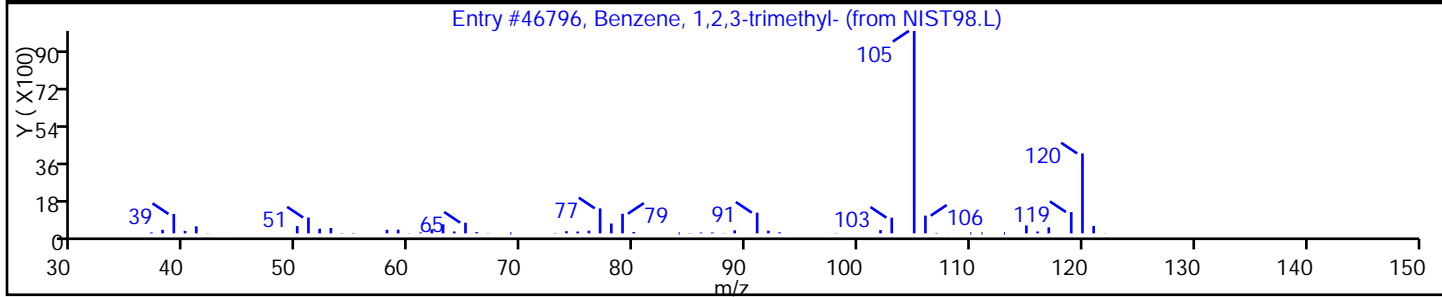
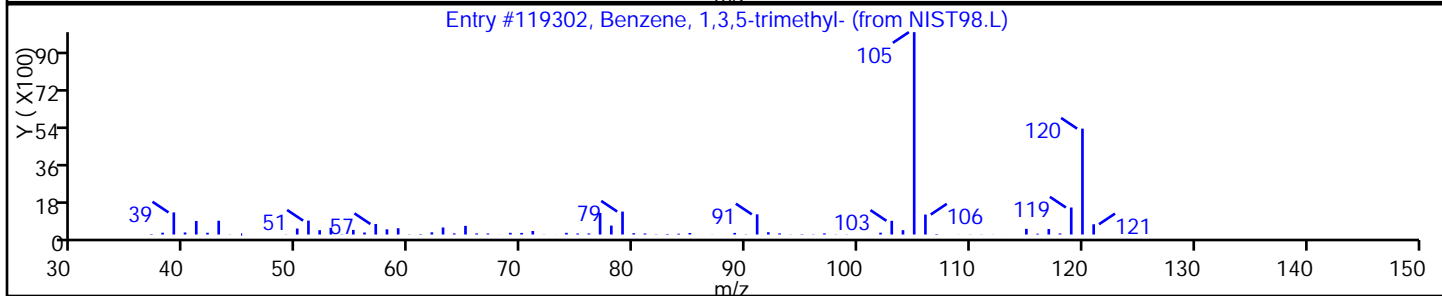
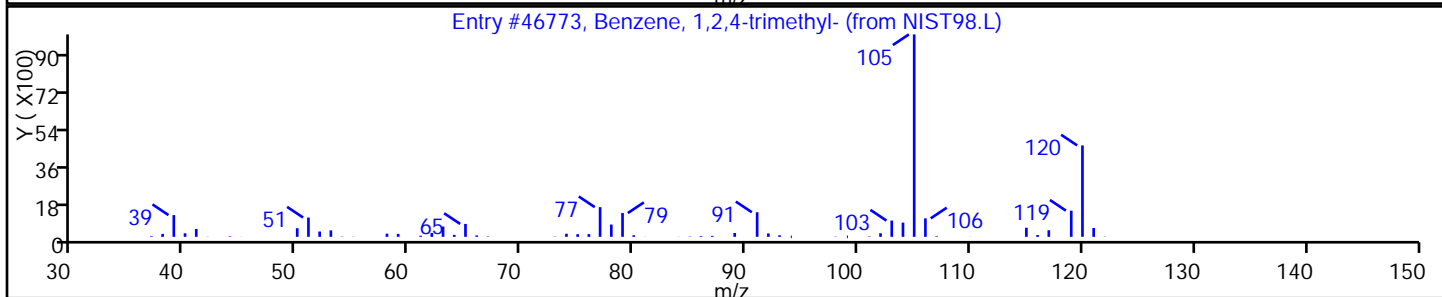
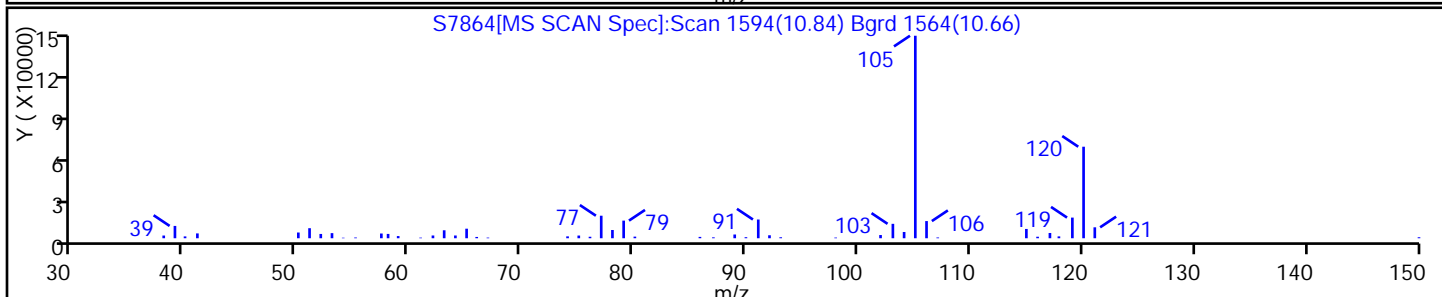
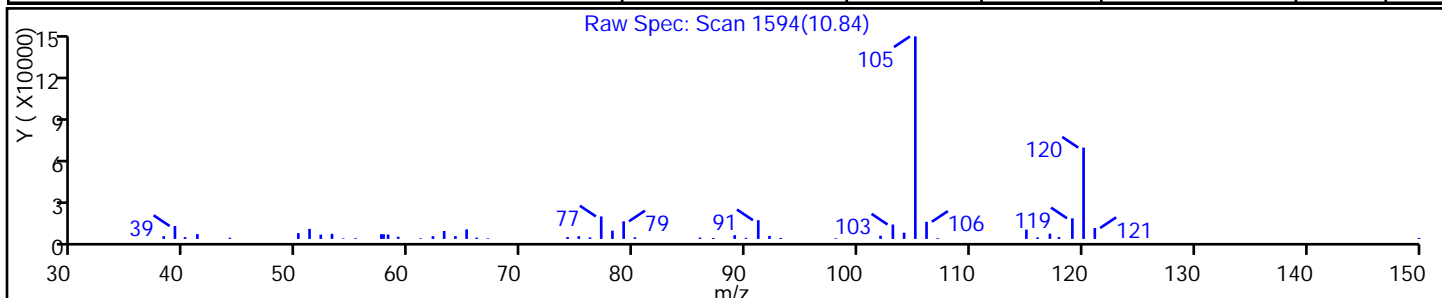
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	46773	C9H12	120	94
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119302	C9H12	120	97
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	46796	C9H12	120	95



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7864.D

Injection Date: 25-Feb-2018 14:35:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-1

Lab Sample ID: 480-131737-1

Client ID: ML-2S

Operator ID: AM

ALS Bottle#: 8 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

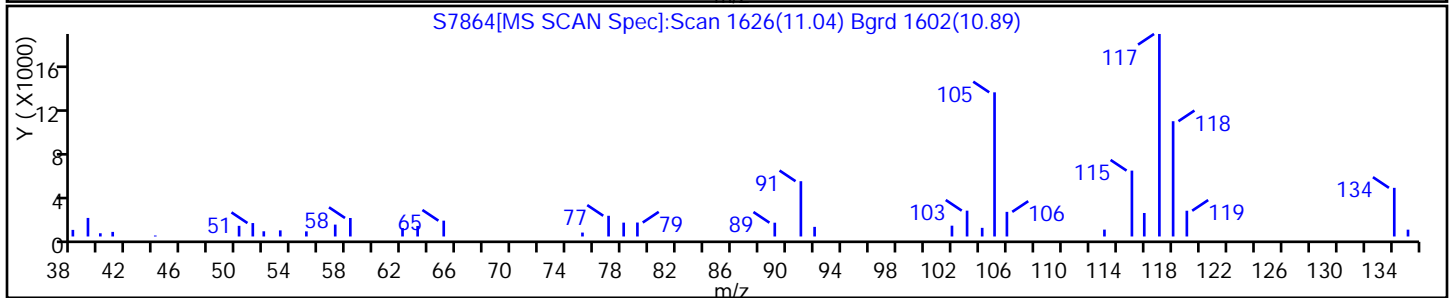
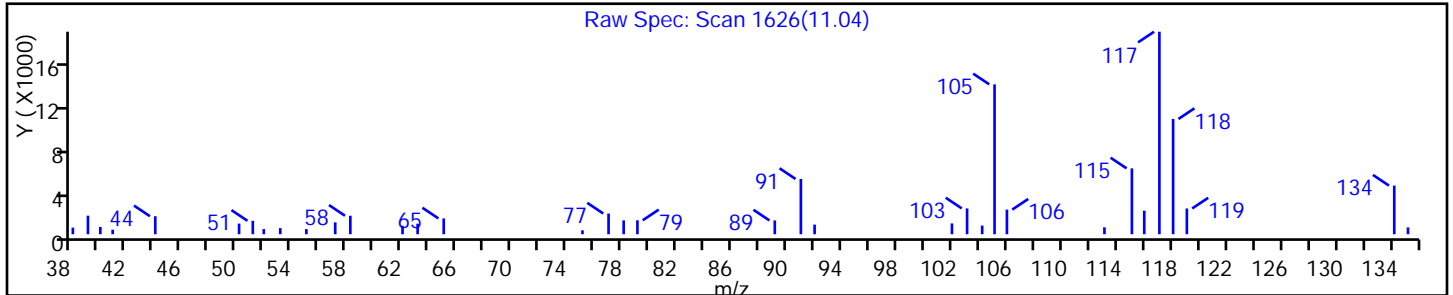
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Matrix: Water Lab File ID: N7316.D
 Analysis Method: 8260C Date Collected: 02/21/2018 15:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		40	33
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	8.4
79-00-5	1,1,2-Trichloroethane	ND		40	9.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12
75-34-3	1,1-Dichloroethane	1000		40	15
75-35-4	1,1-Dichloroethene	ND		40	12
120-82-1	1,2,4-Trichlorobenzene	ND		40	16
96-12-8	1,2-Dibromo-3-Chloropropane	ND		40	16
95-50-1	1,2-Dichlorobenzene	ND		40	32
107-06-2	1,2-Dichloroethane	ND		40	8.4
78-87-5	1,2-Dichloropropane	ND		40	29
541-73-1	1,3-Dichlorobenzene	ND		40	31
106-46-7	1,4-Dichlorobenzene	ND		40	34
78-93-3	2-Butanone (MEK)	ND		400	53
591-78-6	2-Hexanone	ND		200	50
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	84
67-64-1	Acetone	ND		400	120
71-43-2	Benzene	38	J	40	16
75-27-4	Bromodichloromethane	ND		40	16
75-25-2	Bromoform	ND		40	10
74-83-9	Bromomethane	ND		40	28
75-15-0	Carbon disulfide	ND		40	7.6
56-23-5	Carbon tetrachloride	ND		40	11
108-90-7	Chlorobenzene	ND		40	30
124-48-1	Dibromochloromethane	ND		40	13
75-00-3	Chloroethane	38	J	40	13
67-66-3	Chloroform	ND		40	14
74-87-3	Chloromethane	ND		40	14
156-59-2	cis-1,2-Dichloroethene	1700		40	32
10061-01-5	cis-1,3-Dichloropropene	ND		40	14
110-82-7	Cyclohexane	ND		40	7.2
75-71-8	Dichlorodifluoromethane	ND		40	27
100-41-4	Ethylbenzene	39	J	40	30
106-93-4	1,2-Dibromoethane	ND		40	29
98-82-8	Isopropylbenzene	ND		40	32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Matrix: Water Lab File ID: N7316.D
 Analysis Method: 8260C Date Collected: 02/21/2018 15:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	*	100	52
1634-04-4	Methyl tert-butyl ether	20	J	40	6.4
108-87-2	Methylcyclohexane	ND		40	6.4
75-09-2	Methylene Chloride	ND		40	18
100-42-5	Styrene	ND		40	29
127-18-4	Tetrachloroethene	ND		40	14
108-88-3	Toluene	290		40	20
156-60-5	trans-1,2-Dichloroethene	ND		40	36
10061-02-6	trans-1,3-Dichloropropene	ND		40	15
79-01-6	Trichloroethene	ND		40	18
75-69-4	Trichlorofluoromethane	ND		40	35
75-01-4	Vinyl chloride	430		40	36
1330-20-7	Xylenes, Total	210		80	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Matrix: Water Lab File ID: N7316.D
 Analysis Method: 8260C Date Collected: 02/21/2018 15:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 530

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.27	100	T J	
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.51	430	T J N	91%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D
 Lims ID: 480-131737-G-2
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 26-Feb-2018 13:52:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Sample Info: 480-131737-G-2
 Misc. Info.: 480-0069487-009
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 17:17:00 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: nowakk

Date: 26-Feb-2018 17:17:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.400	5.406	-0.006	98	195909	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	750611	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	96	394363	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	93	232513	26.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	288810	23.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	933868	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	-0.001	92	302621	25.9	
11 Dichlorodifluoromethane	85		1.324				ND	U
13 Chloromethane	50		1.495				ND	
14 Vinyl chloride	62	1.573	1.580	-0.007	98	186736	10.8	
15 Bromomethane	94		1.872				ND	
16 Chloroethane	64	1.969	1.975	-0.006	91	8894	0.9597	
18 Trichlorofluoromethane	101		2.176				ND	
22 1,1-Dichloroethene	96		2.675				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.693				ND	
23 Acetone	43		2.778				ND	U
25 Carbon disulfide	76		2.870				ND	
28 Methyl acetate	43		3.076				ND	
30 Methylene Chloride	84		3.168				ND	
32 Methyl tert-butyl ether	73	3.405	3.399	0.006	95	16744	0.4990	
33 trans-1,2-Dichloroethene	96		3.405				ND	
36 1,1-Dichloroethane	63	3.806	3.806	0.000	97	586393	26.1	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	506921	43.5	
44 2-Butanone (MEK)	43		4.378				ND	U
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97		4.786				ND	
52 Cyclohexane	56		4.810				ND	
53 Carbon tetrachloride	117		4.932				ND	
55 Benzene	78	5.138	5.139	-0.001	90	39429	0.9460	
57 1,2-Dichloroethane	62		5.187				ND	
60 Trichloroethene	95		5.747				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.887				ND	
63 1,2-Dichloropropane	63		5.972				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.678				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	U
73 Toluene	92	6.982	6.976	0.006	97	204914	7.30	
75 trans-1,3-Dichloropropene	75		7.238				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.517				ND	
82 2-Hexanone	43		7.657				ND	
83 Chlorodibromomethane	129		7.822				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91	8.521	8.521	0.000	98	49034	0.9790	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	74852	3.68	
91 o-Xylene	106	9.068	9.068	-0.001	96	28303	1.44	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105	9.464	9.453	0.006	92	7762	0.1534	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.809				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		5.13	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D
 Lims ID: 480-131737-G-2
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 26-Feb-2018 13:52:30 ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Sample Info: 480-131737-G-2
 Misc. Info.: 480-0069487-009
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 17:17:00 Calib Date: 31-Jan-2018 23:35:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030
 First Level Reviewer: nowakk Date: 26-Feb-2018 17:17:12

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
					Unknown			
2.267	258699	2.60	147					
					354-23-4 Ethane, 1,2-dichloro-1,1,2-trifluoro-			
2.510	1071195	10.8	147	91	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
----------	----	------	-------------

* 147 Fluorobenzene (IS) 5.406 2490268 25.0

QC Flag Legend

Processing Flags

Reagents:

N_8260_Surr_00316 Amount Added: 1.00 Units: uL Run Reagent
 N 8260 IS_00105 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Worklist Smp#: 9

Client ID: ML-2I

Purge Vol: 5.000 mL

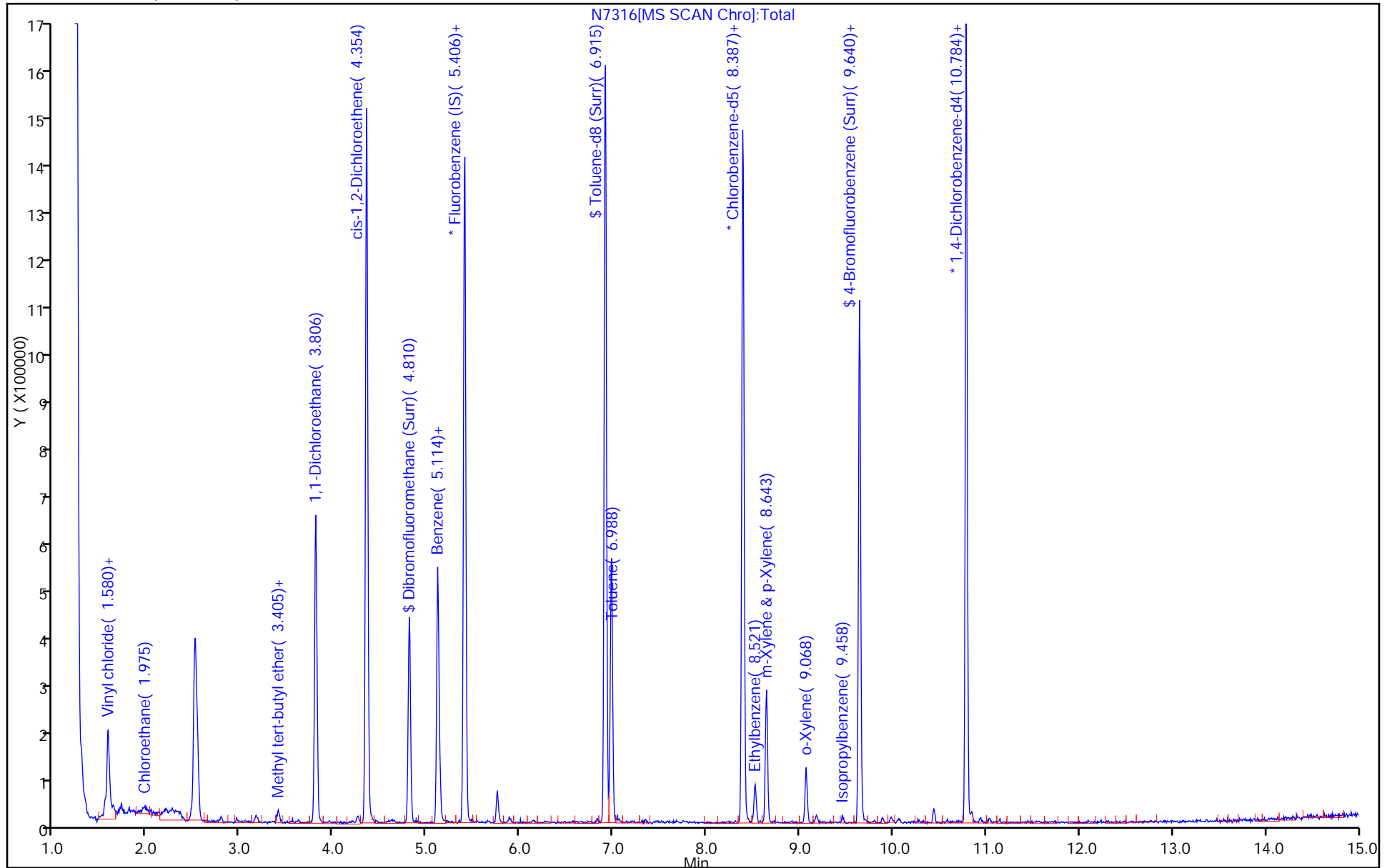
Dil. Factor: 40.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

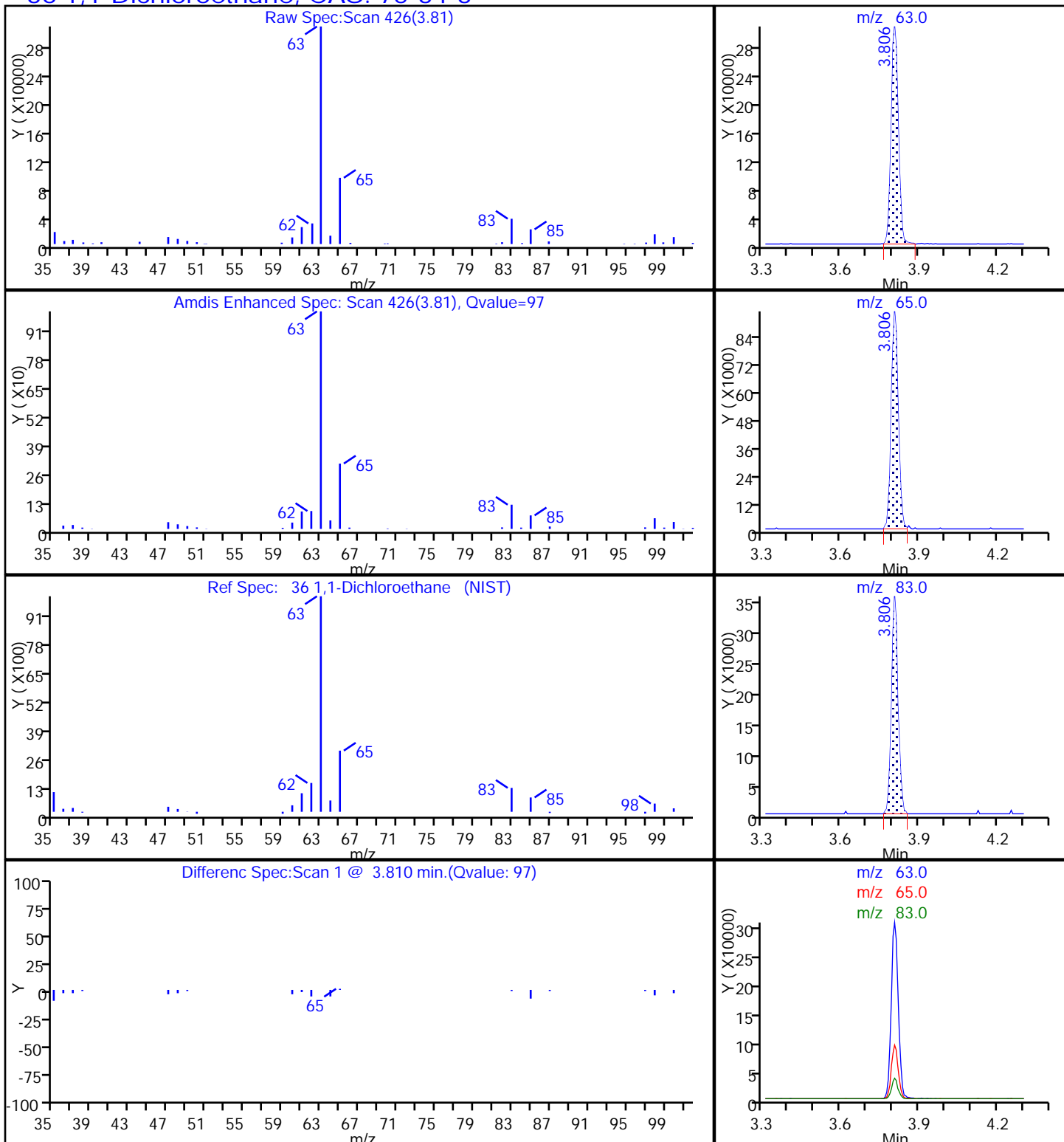
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

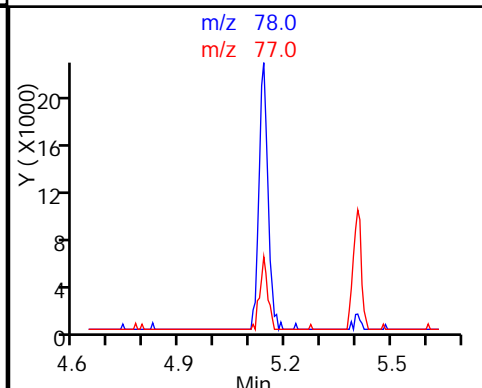
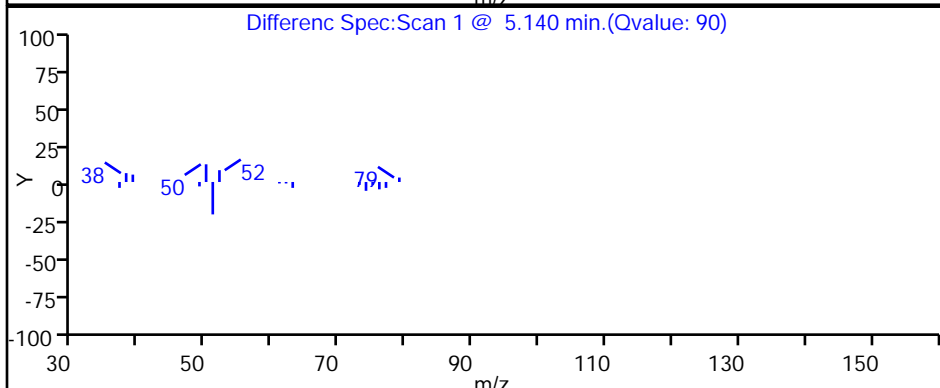
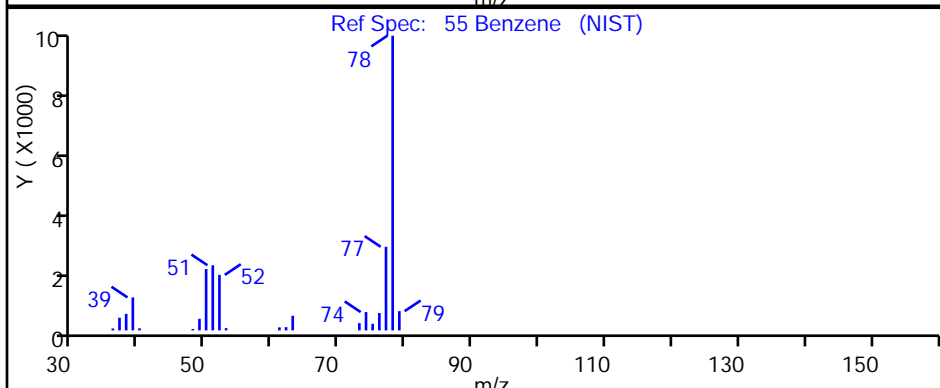
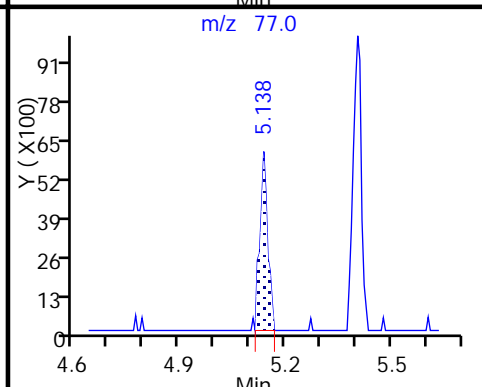
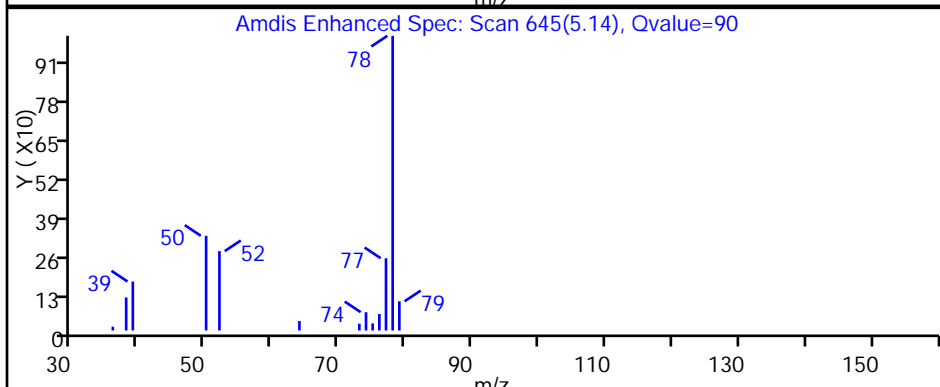
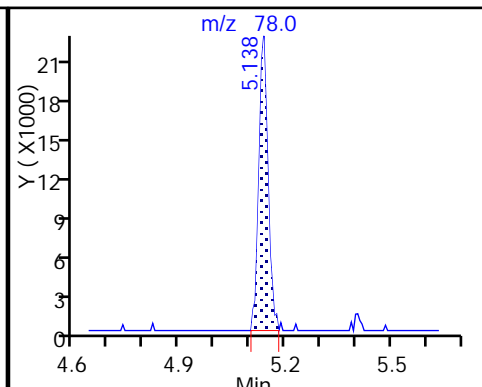
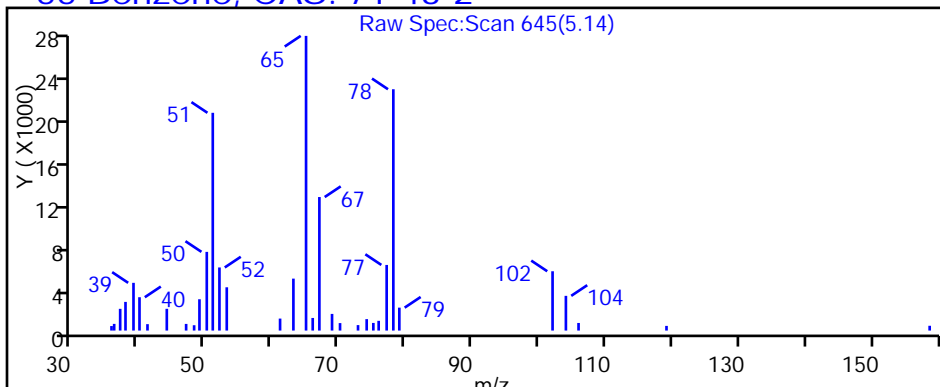
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

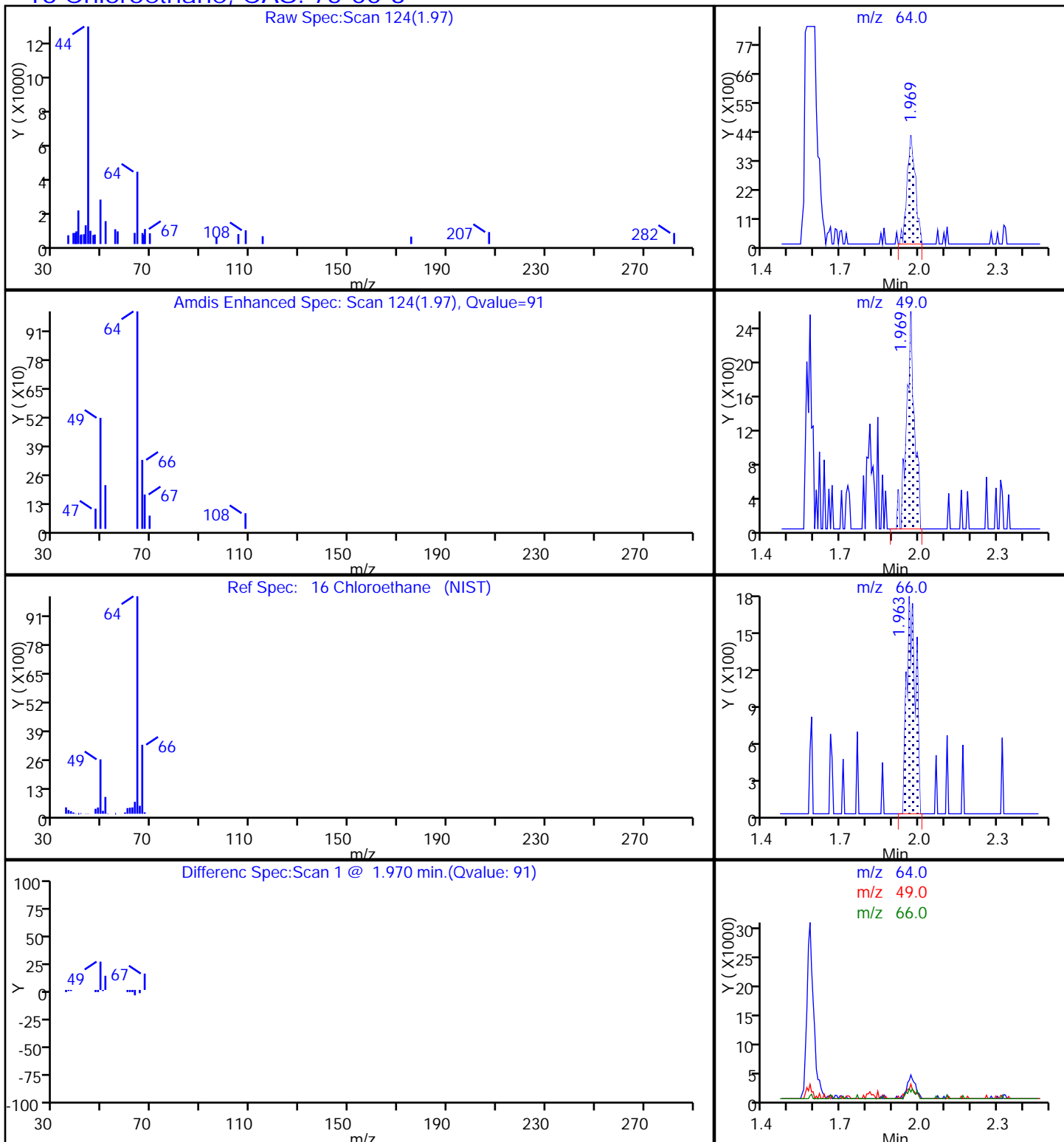
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

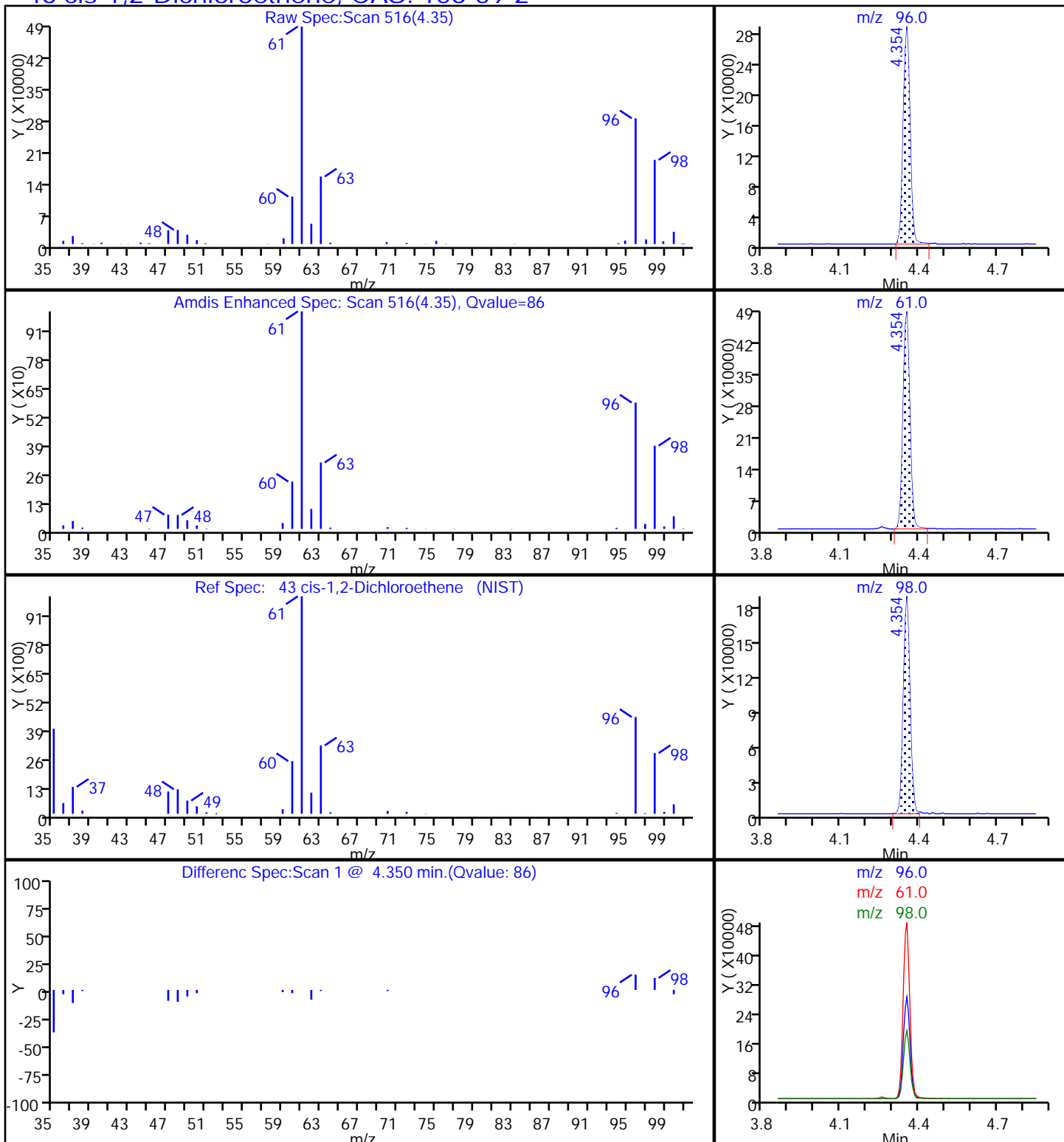
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

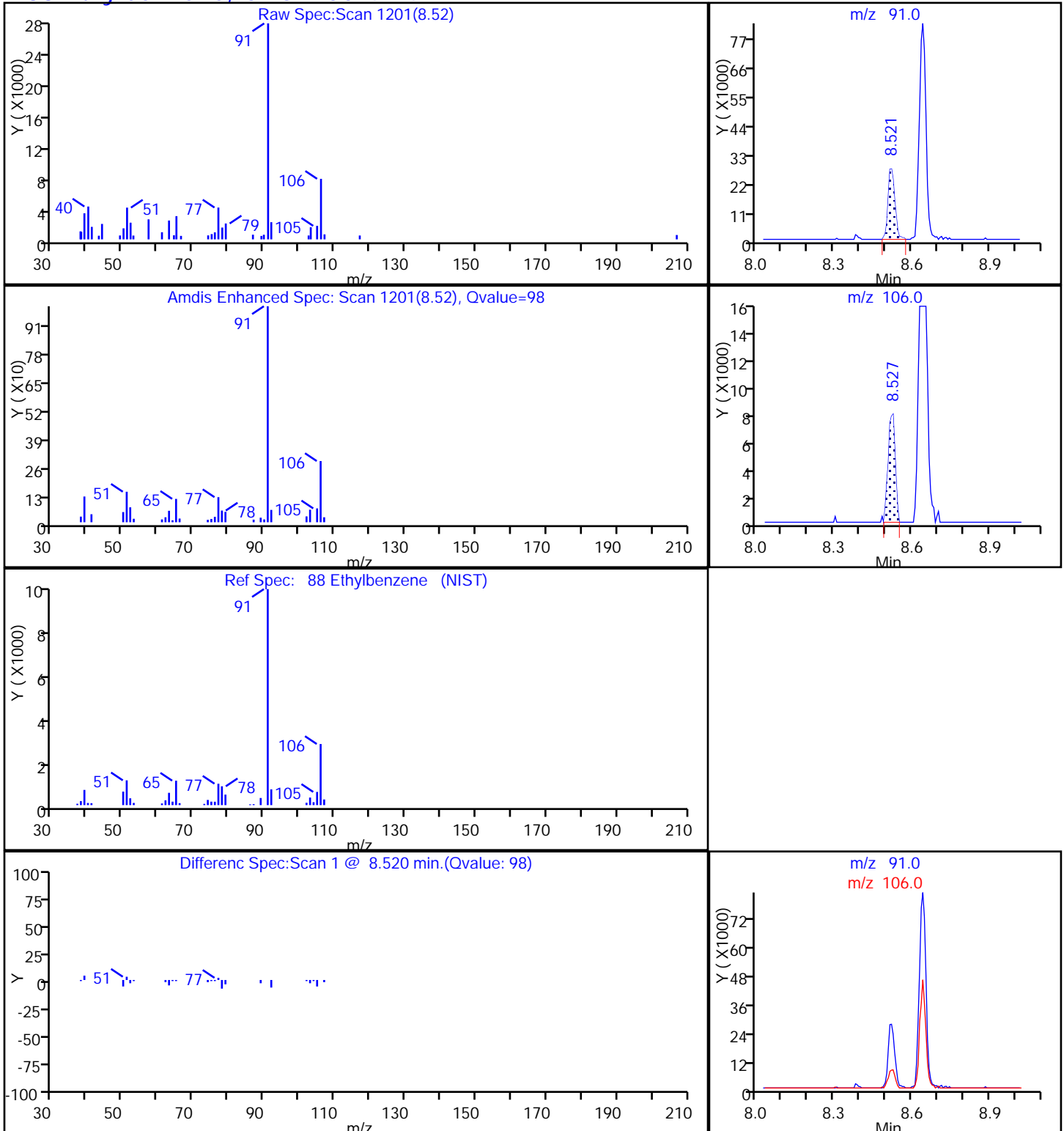
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

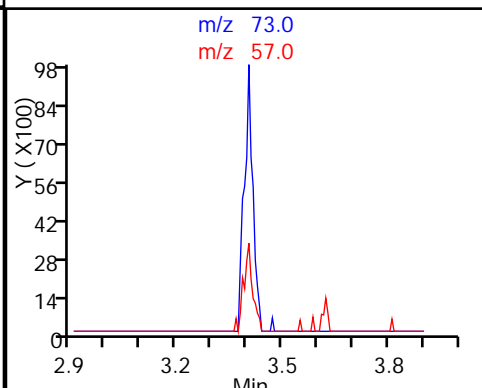
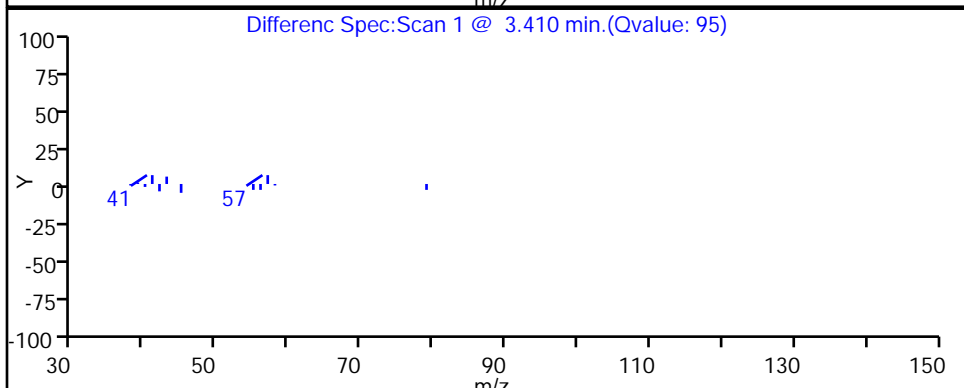
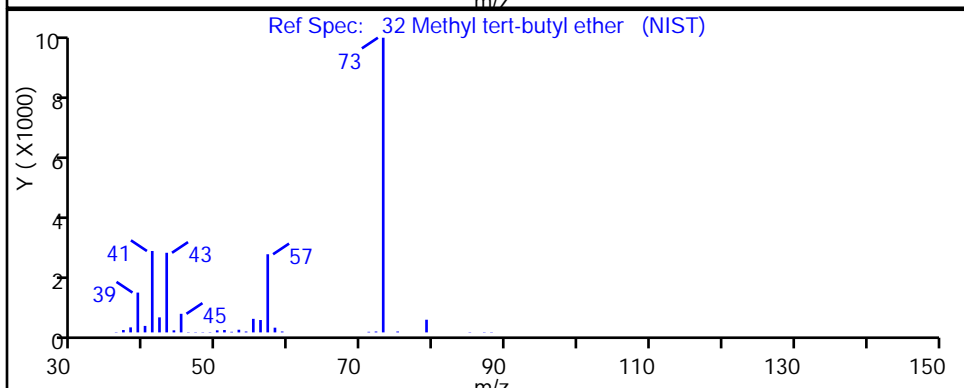
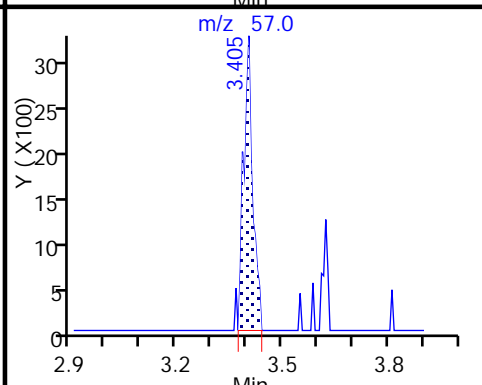
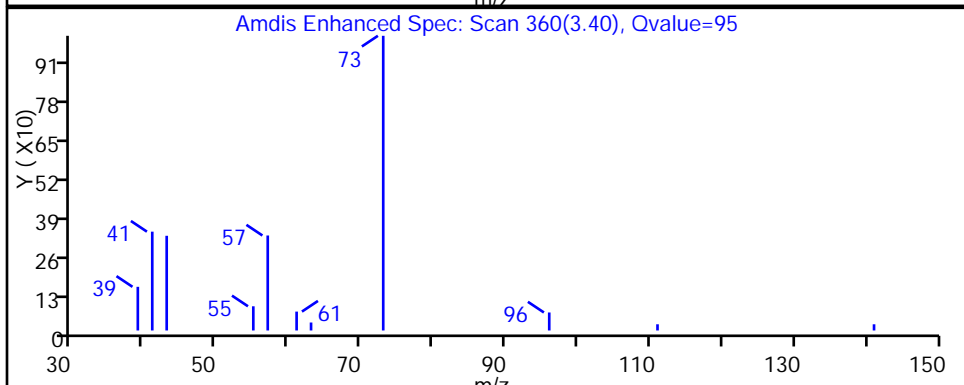
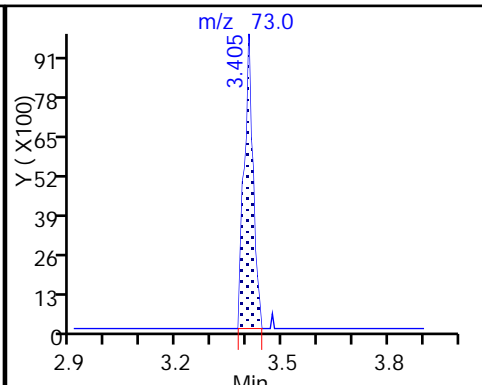
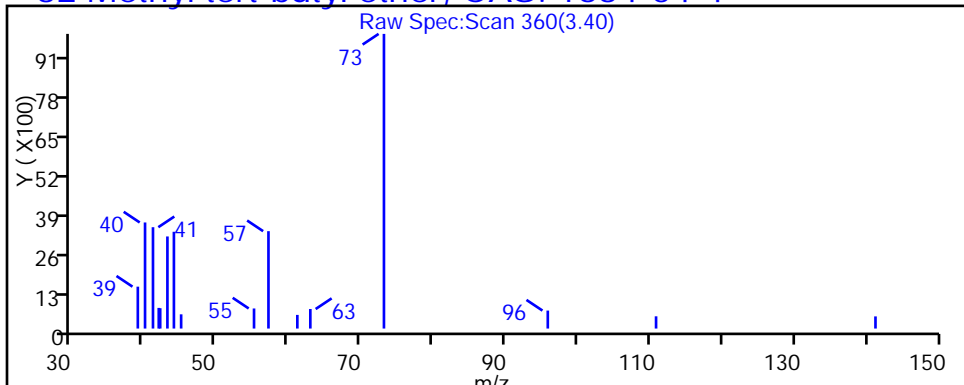
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

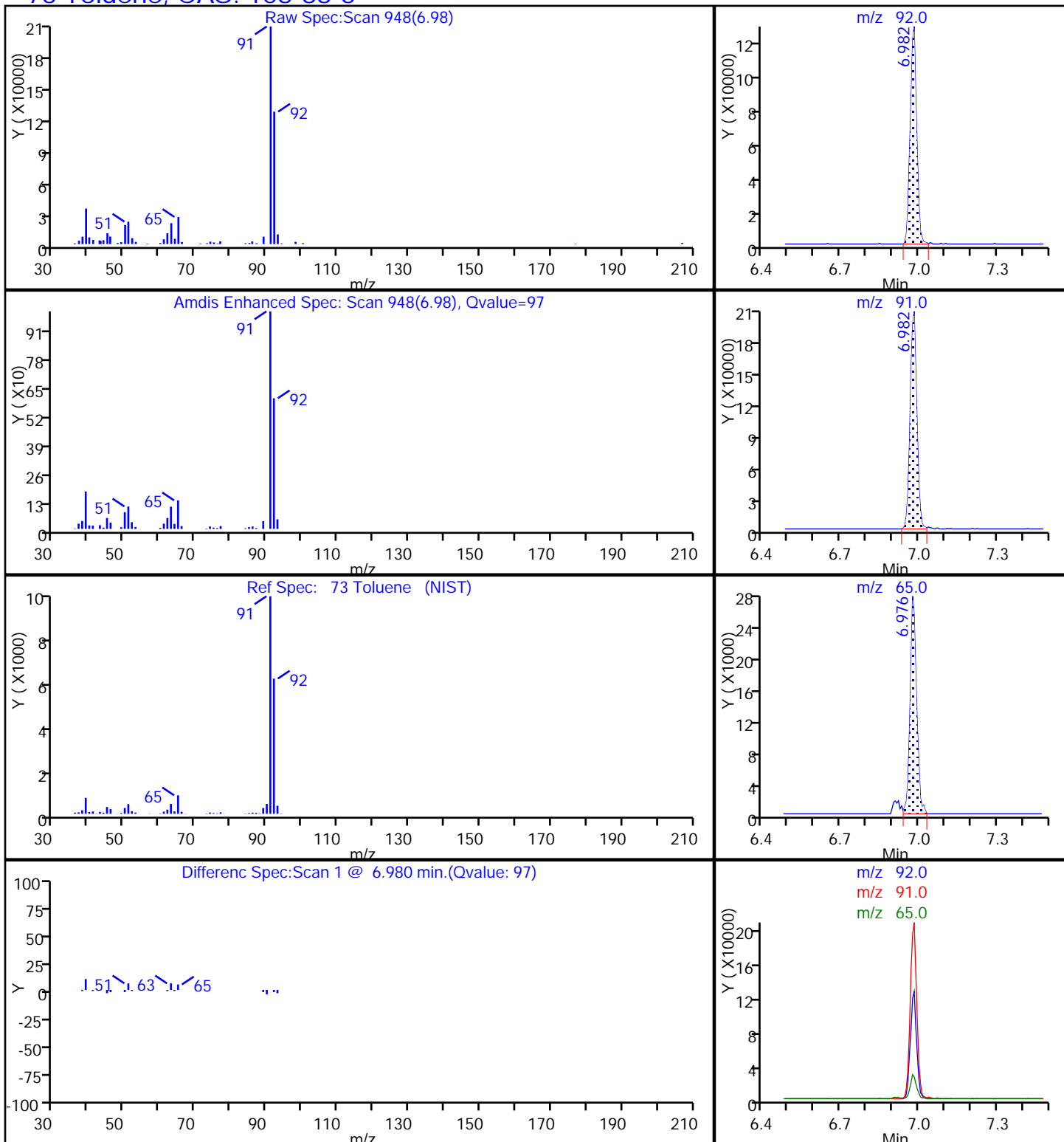
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

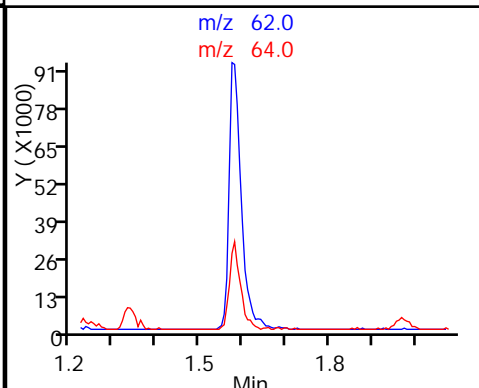
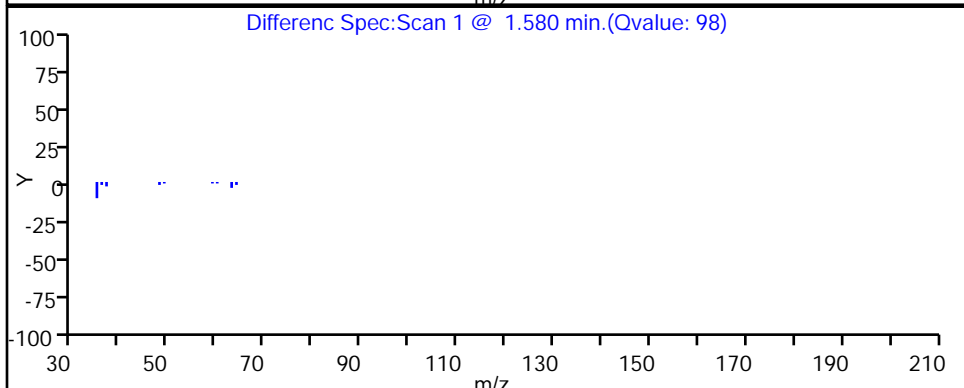
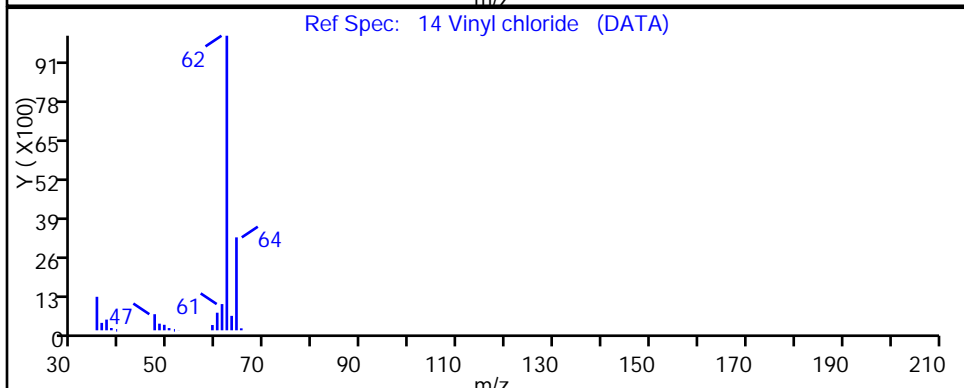
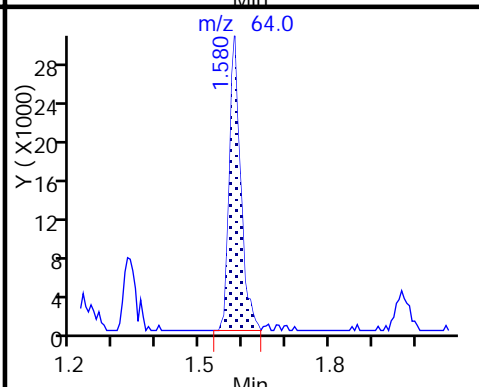
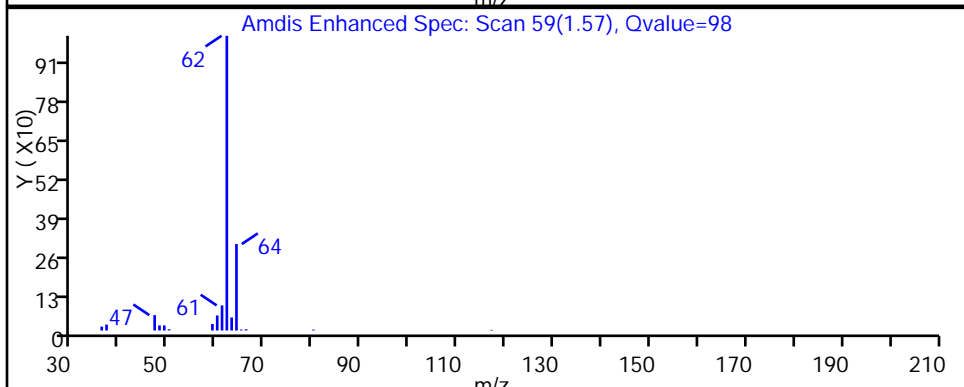
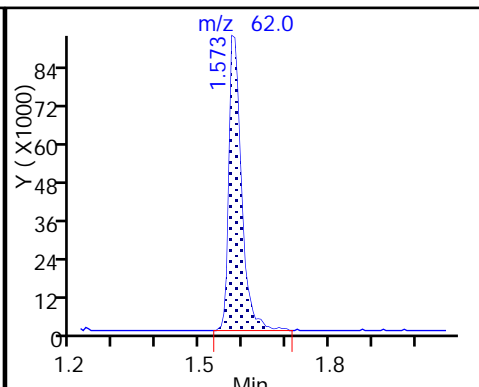
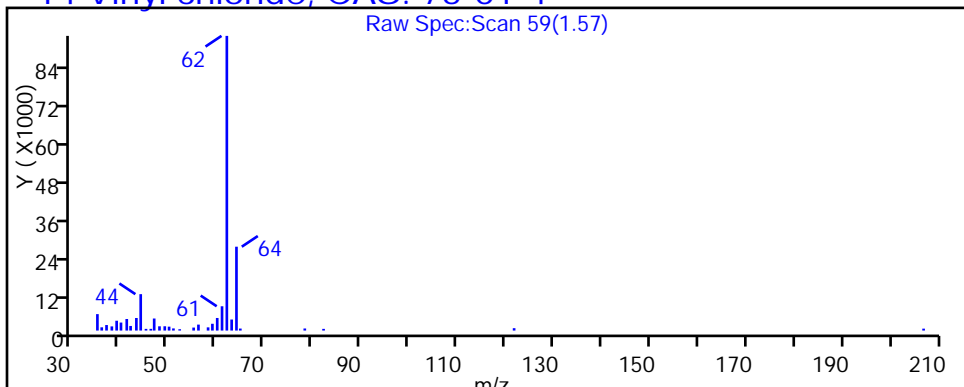
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

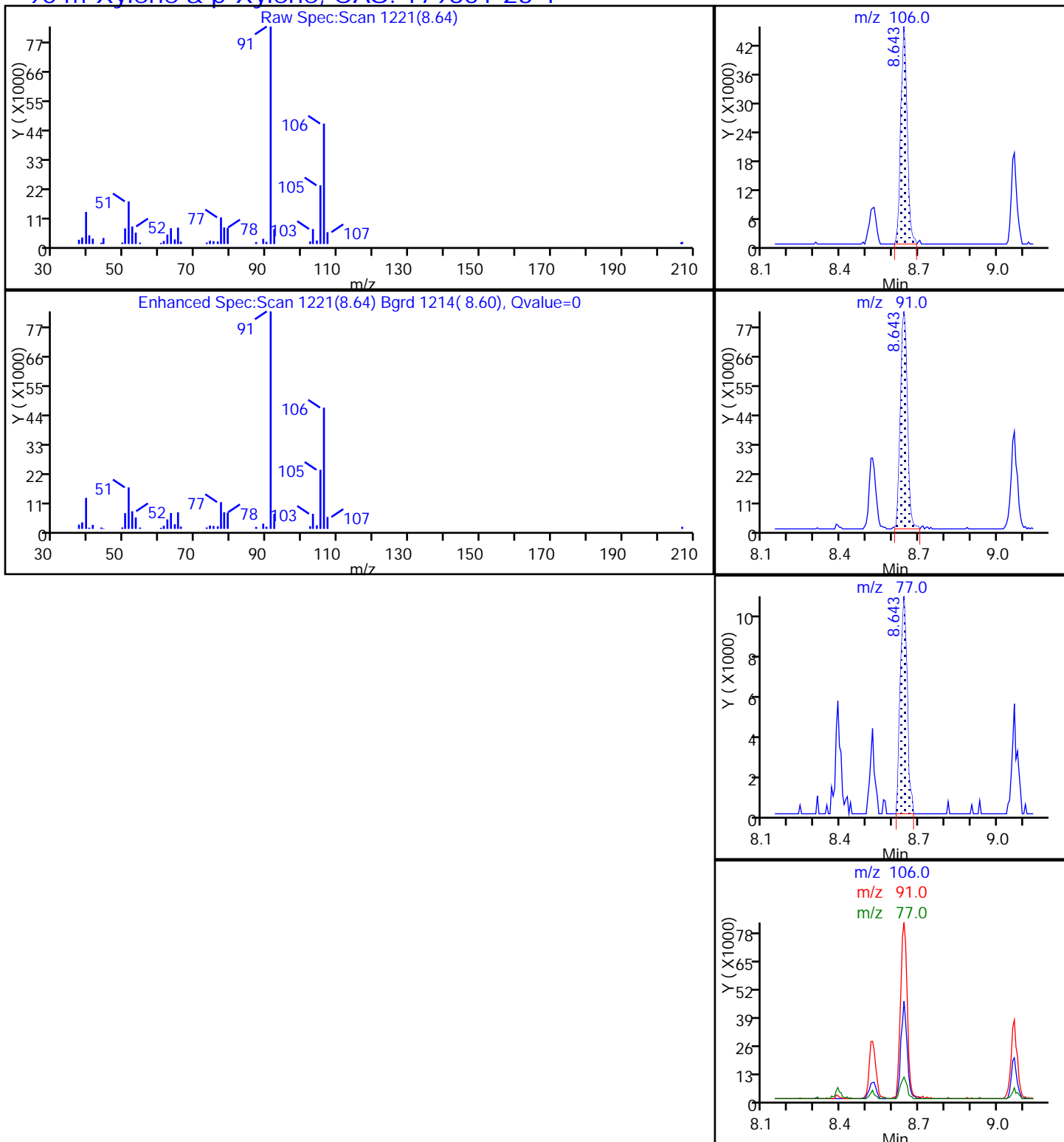
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

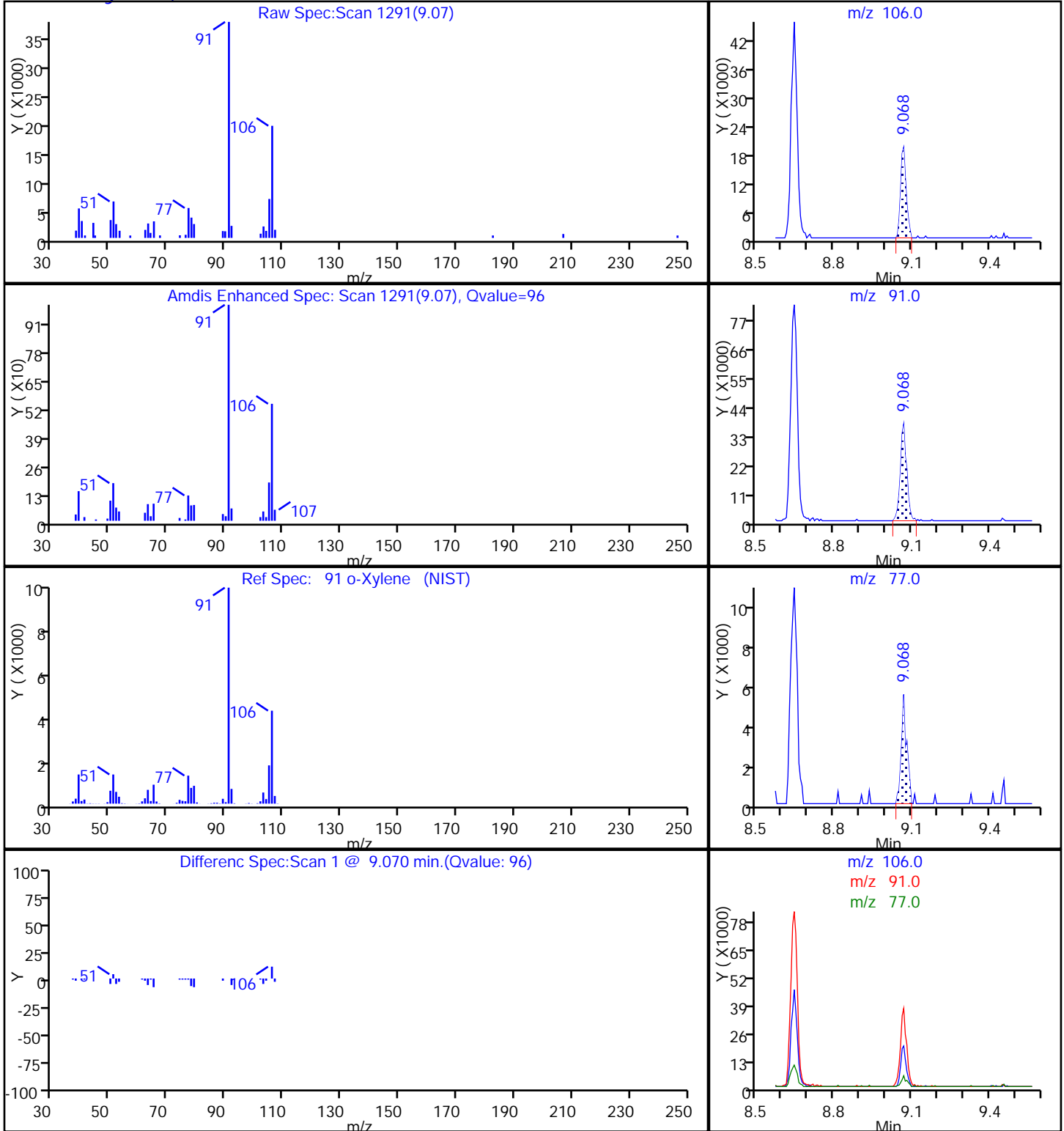
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

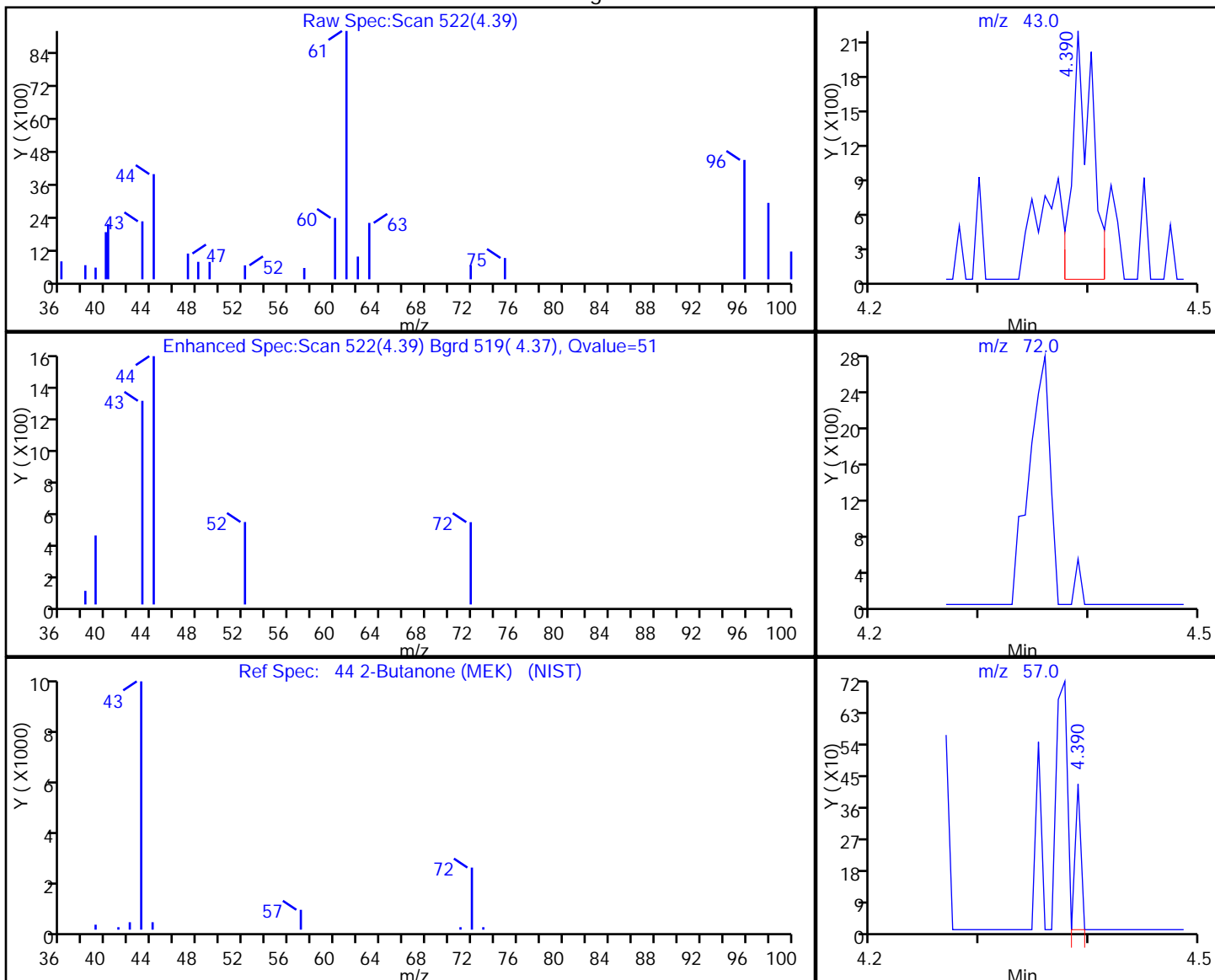


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D
 Injection Date: 26-Feb-2018 13:52:30 Instrument ID: HP5973N
 Lims ID: 480-131737-G-2 Lab Sample ID: 480-131737-2
 Client ID: ML-2I
 Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.39	43.00	2673	0.238934
4.38	72.00	0	
4.39	57.00	153	

Reviewer: nowakk, 26-Feb-2018 17:17:12

Audit Action: Marked Compound Undetected

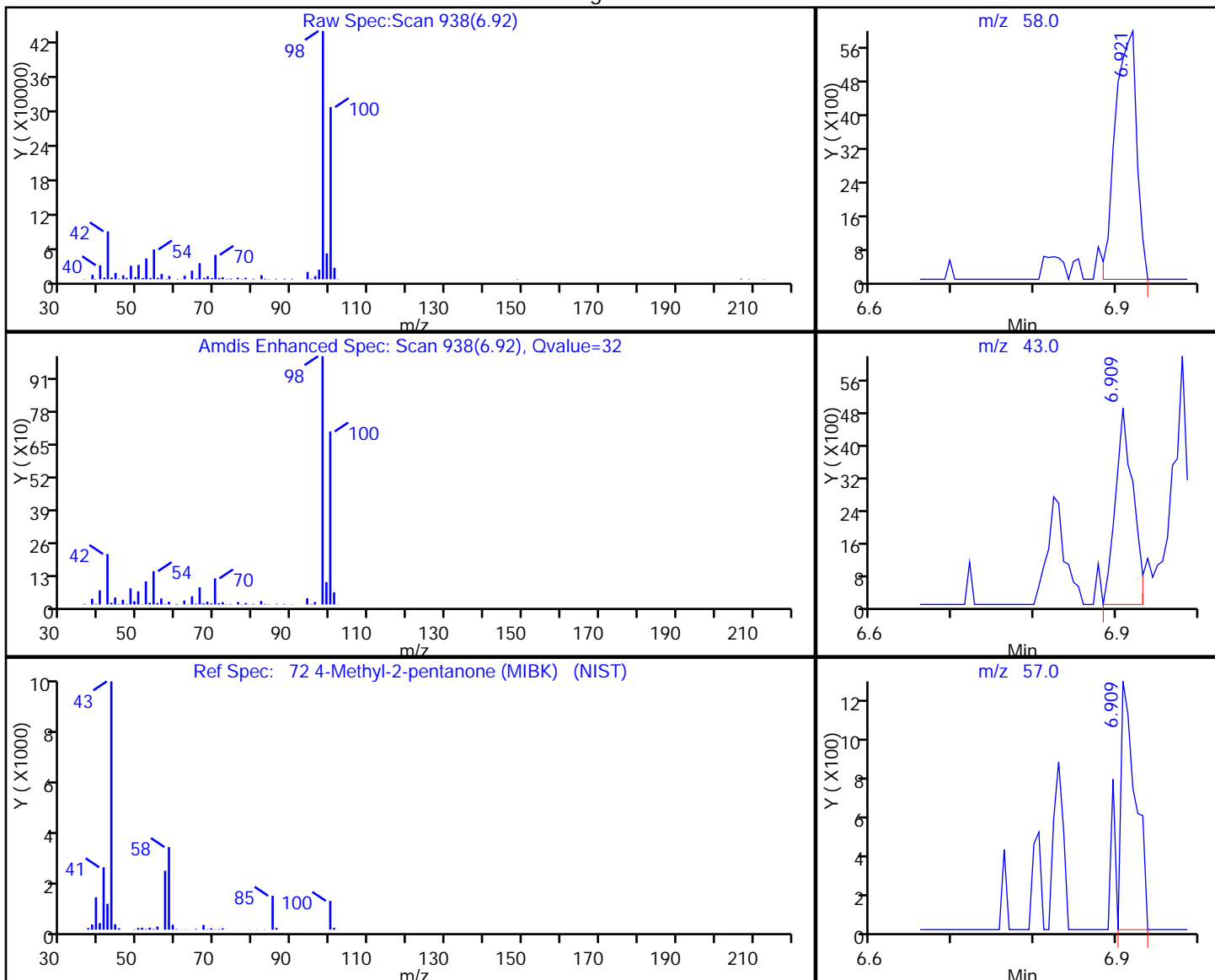
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D
 Injection Date: 26-Feb-2018 13:52:30 Instrument ID: HP5973N
 Lims ID: 480-131737-G-2 Lab Sample ID: 480-131737-2
 Client ID: ML-2I
 Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.92	58.00	10782	1.335860
6.91	43.00	7239	
6.91	57.00	1525	

Reviewer: nowakk, 26-Feb-2018 17:17:12

Audit Action: Marked Compound Undetected

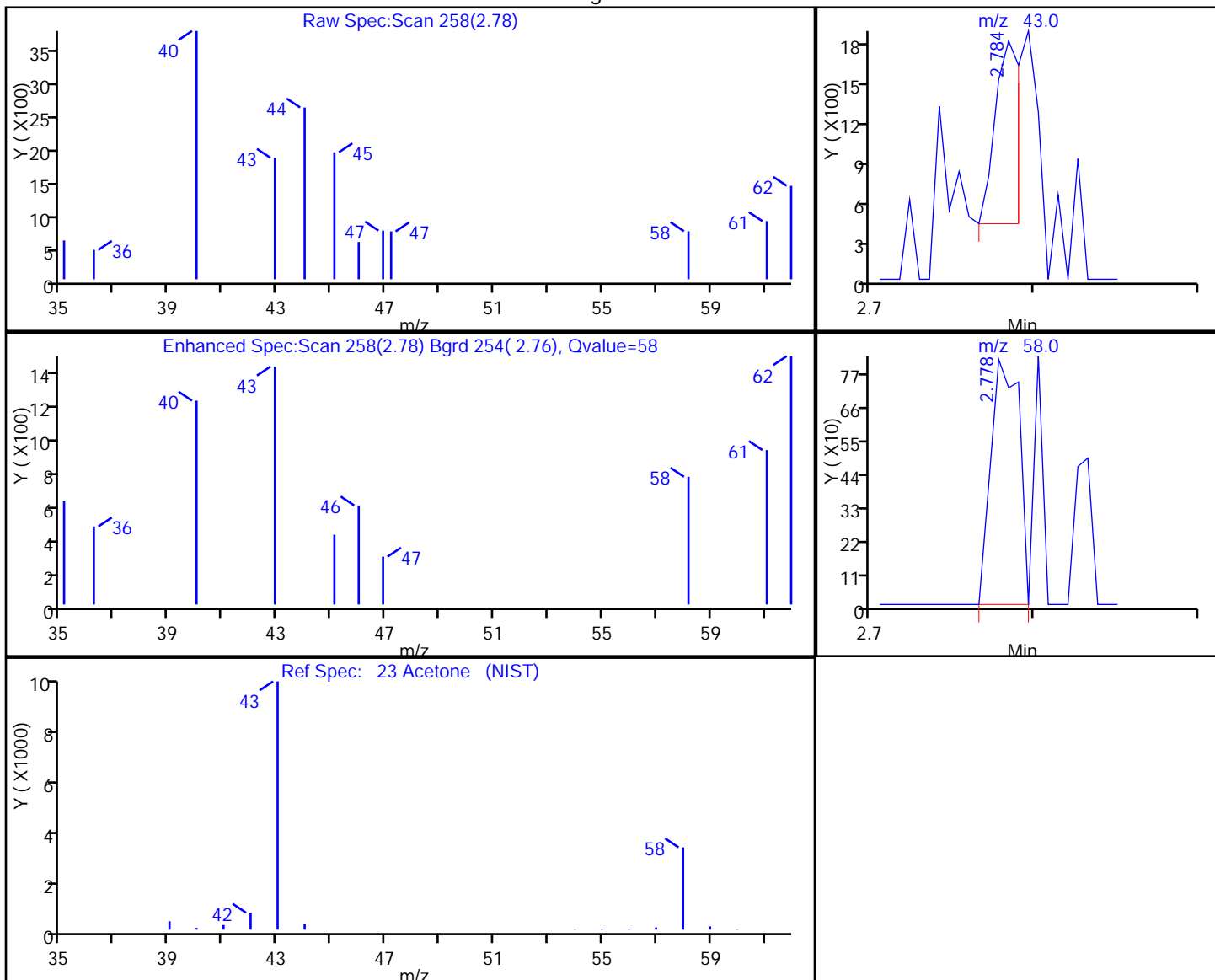
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D
 Injection Date: 26-Feb-2018 13:52:30 Instrument ID: HP5973N
 Lims ID: 480-131737-G-2 Lab Sample ID: 480-131737-2
 Client ID: ML-21
 Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.78	43.00	1490	0.223201
2.78	58.00	979	

Reviewer: nowakk, 26-Feb-2018 17:17:12

Audit Action: Marked Compound Undetected

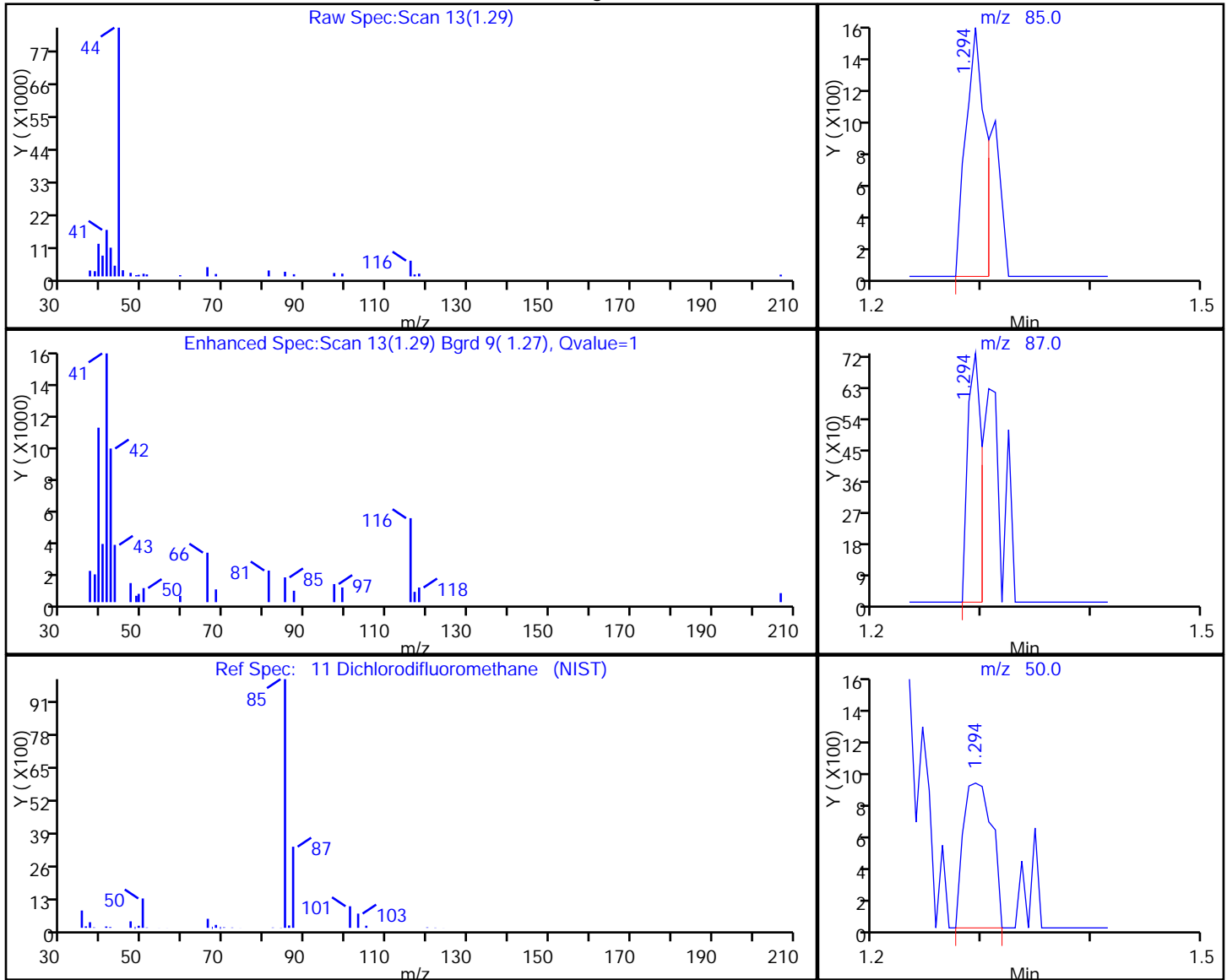
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D
 Injection Date: 26-Feb-2018 13:52:30 Instrument ID: HP5973N
 Lims ID: 480-131737-G-2 Lab Sample ID: 480-131737-2
 Client ID: ML-2I
 Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.29	85.00	1942	0.190370
1.29	87.00	644	
1.29	50.00	1635	

Reviewer: nowakk, 26-Feb-2018 17:17:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3 Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

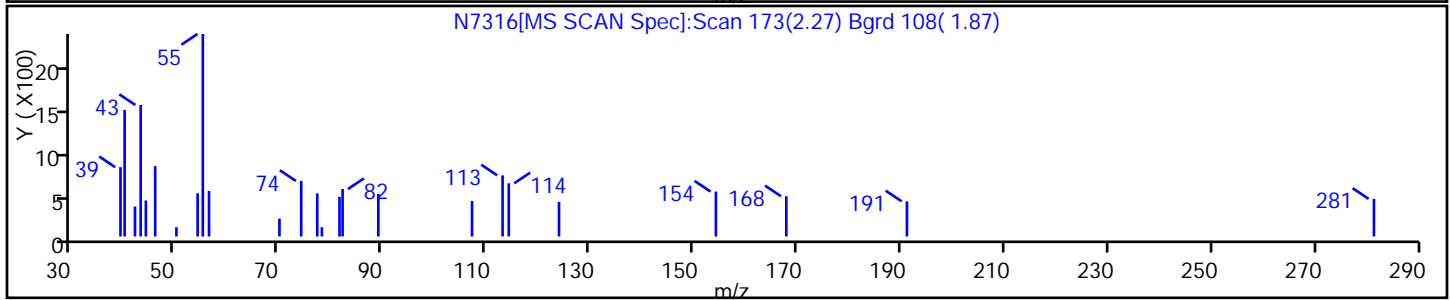
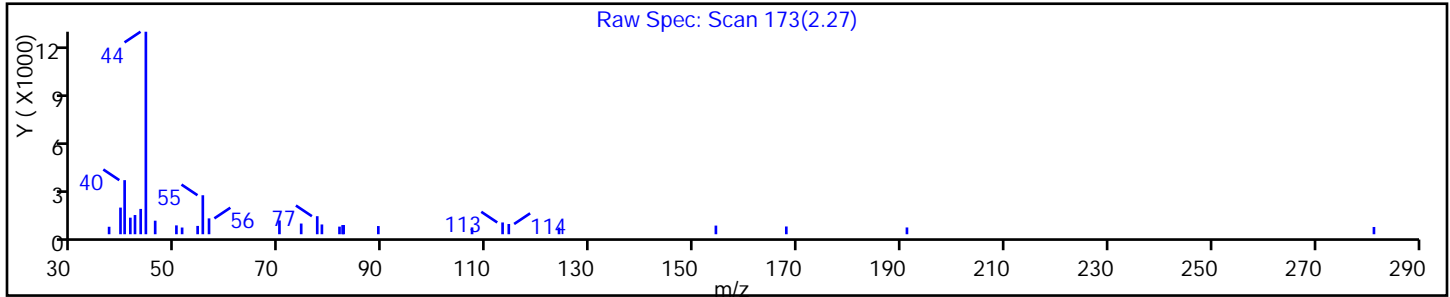
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7316.D

Injection Date: 26-Feb-2018 13:52:30

Instrument ID: HP5973N

Lims ID: 480-131737-G-2

Lab Sample ID: 480-131737-2

Client ID: ML-2I

Operator ID: AM

ALS Bottle#: 3 Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

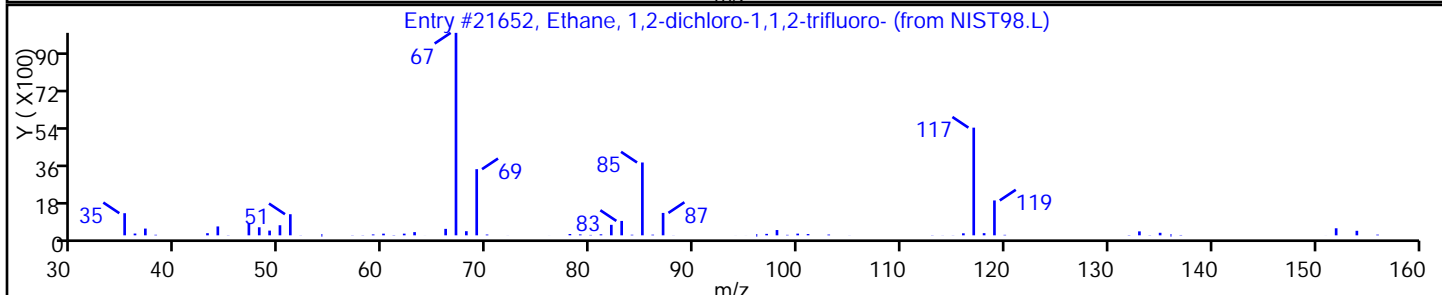
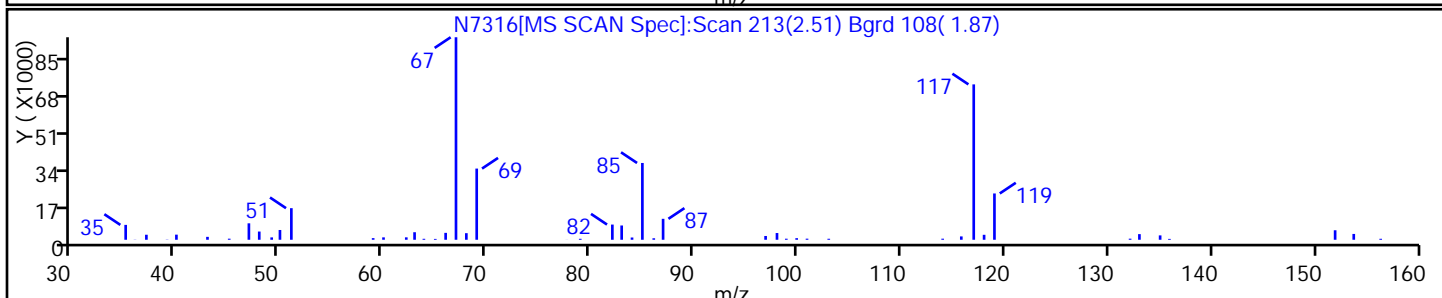
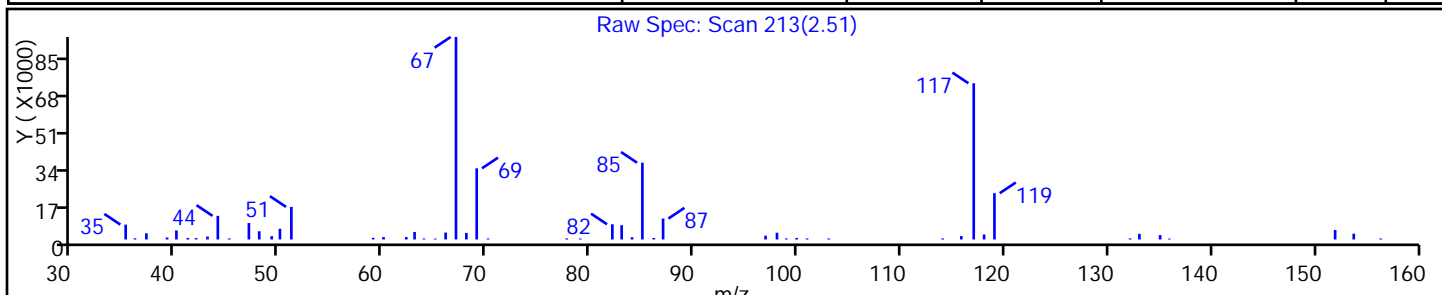
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	91



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: S7866.D
 Analysis Method: 8260C Date Collected: 02/21/2018 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	45		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	23		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	130		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	16		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	37		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: S7866.D
 Analysis Method: 8260C Date Collected: 02/21/2018 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	51		5.0	0.80
108-87-2	Methylcyclohexane	2.0	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	18		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	2.9	J	5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	83		5.0	4.5
1330-20-7	Xylenes, Total	210		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: S7866.D
 Analysis Method: 8260C Date Collected: 02/21/2018 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 5 TIC Result Total: 156

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
60-29-7	Ethyl ether	2.43	13	T J N	86%
108-67-8	Benzene, 1,3,5-trimethyl-	10.07	14	T J N	94%
526-73-8	Benzene, 1,2,3-trimethyl-	10.44	70	T J N	97%
620-14-4	Benzene, 1-ethyl-3-methyl-	10.85	45	T J N	94%
	Unknown	11.03	14	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D
 Lims ID: 480-131737-F-3
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 25-Feb-2018 15:22:30 ALS Bottle#: 10 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-131737-F-3
 Misc. Info.: 480-0069476-018
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 13:17:04 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: moffata

Date: 26-Feb-2018 14:55:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.419	5.412	0.007	99	124150	25.0	
* 2 Chlorobenzene-d5	82	8.406	8.406	0.000	85	265950	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	93	283218	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.828	0.000	62	155655	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.133	5.139	-0.006	0	95551	25.0	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	91	649510	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	92	221950	24.0	
10 Dichlorodifluoromethane	85		1.245				ND	
12 Chloromethane	50		1.416				ND	
13 Vinyl chloride	62	1.501	1.501	0.000	89	120051	16.7	
14 Bromomethane	94		1.817				ND	
15 Chloroethane	64		1.896				ND	
17 Trichlorofluoromethane	101		2.127				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.626				ND	
22 1,1-Dichloroethene	96		2.638				ND	
23 Acetone	43		2.766				ND	
26 Carbon disulfide	76		2.839				ND	
27 Methyl acetate	43		3.064				ND	
30 Methylene Chloride	84	3.162	3.155	0.007	24	1040	0.1524	
32 Methyl tert-butyl ether	73	3.381	3.381	0.000	87	207261	10.3	
34 trans-1,2-Dichloroethene	96		3.387				ND	U
39 1,1-Dichloroethane	63	3.806	3.806	0.000	94	89658	9.01	
45 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	64	188265	26.0	
43 2-Butanone (MEK)	43		4.403				ND	
50 Chloroform	83		4.670				ND	
51 1,1,1-Trichloroethane	97		4.792				ND	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.932				ND	
57 Benzene	78	5.145	5.145	0.000	83	116686	4.54	
58 1,2-Dichloroethane	62		5.206				ND	
62 Trichloroethene	95	5.753	5.759	-0.006	55	3956	0.5844	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.875	5.887	-0.012	28	4297	0.3947	
65 1,2-Dichloropropane	63		5.990				ND	
68 Dichlorobromomethane	83		6.282				ND	
72 cis-1,3-Dichloropropene	75		6.702				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.860	6.842	0.018	75	6465	1.03	
74 Toluene	92	6.994	6.994	0.000	78	62181	3.53	
77 trans-1,3-Dichloropropene	75		7.268				ND	
79 1,1,2-Trichloroethane	83		7.457				ND	
81 Tetrachloroethene	166		7.523				ND	
80 2-Hexanone	43		7.682				ND	
83 Chlorodibromomethane	129		7.852				ND	
84 Ethylene Dibromide	107		7.955				ND	
87 Chlorobenzene	112		8.436				ND	
88 Ethylbenzene	91	8.527	8.533	-0.006	96	106172	3.28	
90 m-Xylene & p-Xylene	106	8.649	8.655	-0.006	0	541437	40.4	
91 o-Xylene	106	9.075	9.081	-0.006	92	28957	2.31	
92 Styrene	104		9.105				ND	
95 Bromoform	173		9.349				ND	
94 Isopropylbenzene	105	9.464	9.459	0.000	94	241538	7.39	
97 1,1,2,2-Tetrachloroethane	83		9.853				ND	
111 1,3-Dichlorobenzene	146		10.730				ND	
113 1,4-Dichlorobenzene	146		10.815				ND	
116 1,2-Dichlorobenzene	146		11.168				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.891				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 124 Xylenes, Total	1				0		42.7	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00282

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00253

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D
 Lims ID: 480-131737-F-3
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 25-Feb-2018 15:22:30 ALS Bottle#: 10 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-131737-F-3
 Misc. Info.: 480-0069476-018
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 13:17:04 Calib Date: 10-Jan-2018 07:40:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022
 First Level Reviewer: moffata Date: 26-Feb-2018 14:55:10

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
60-29-7	Ethyl ether							
2.432	139140	2.60	153	86	108346	C4H10O	74	
108-67-8	Benzene, 1,3,5-trimethyl-							
10.073	175467	2.73	3	94	119300	C9H12	120	
526-73-8	Benzene, 1,2,3-trimethyl-							
10.438	900168	14.0	3	97	119303	C9H12	120	
620-14-4	Benzene, 1-ethyl-3-methyl-							
10.845	583386	9.08	3	94	119287	C9H12	120	I
11.034	185727	2.89	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.419	1340304	25.0
* 3 1,4-Dichlorobenzene-d4	10.790	1606245	25.0

QC Flag Legend

Processing Flags

Review Flags

I - User Selected Library Match

Reagents:

S_8260_IS_00282	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00253	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Worklist Smp#: 18

Client ID: ML-2D

Purge Vol: 5.000 mL

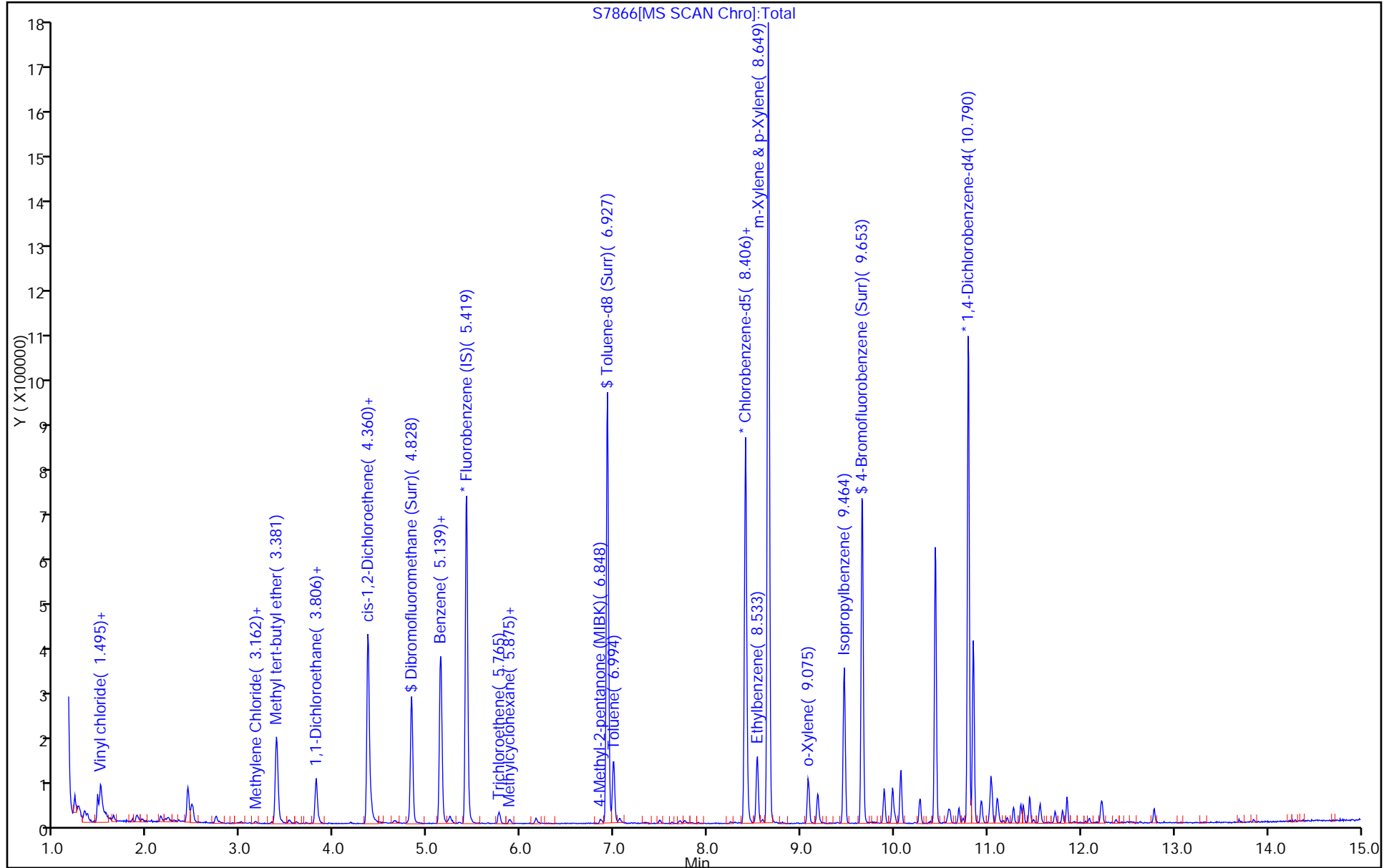
Dil. Factor: 5.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

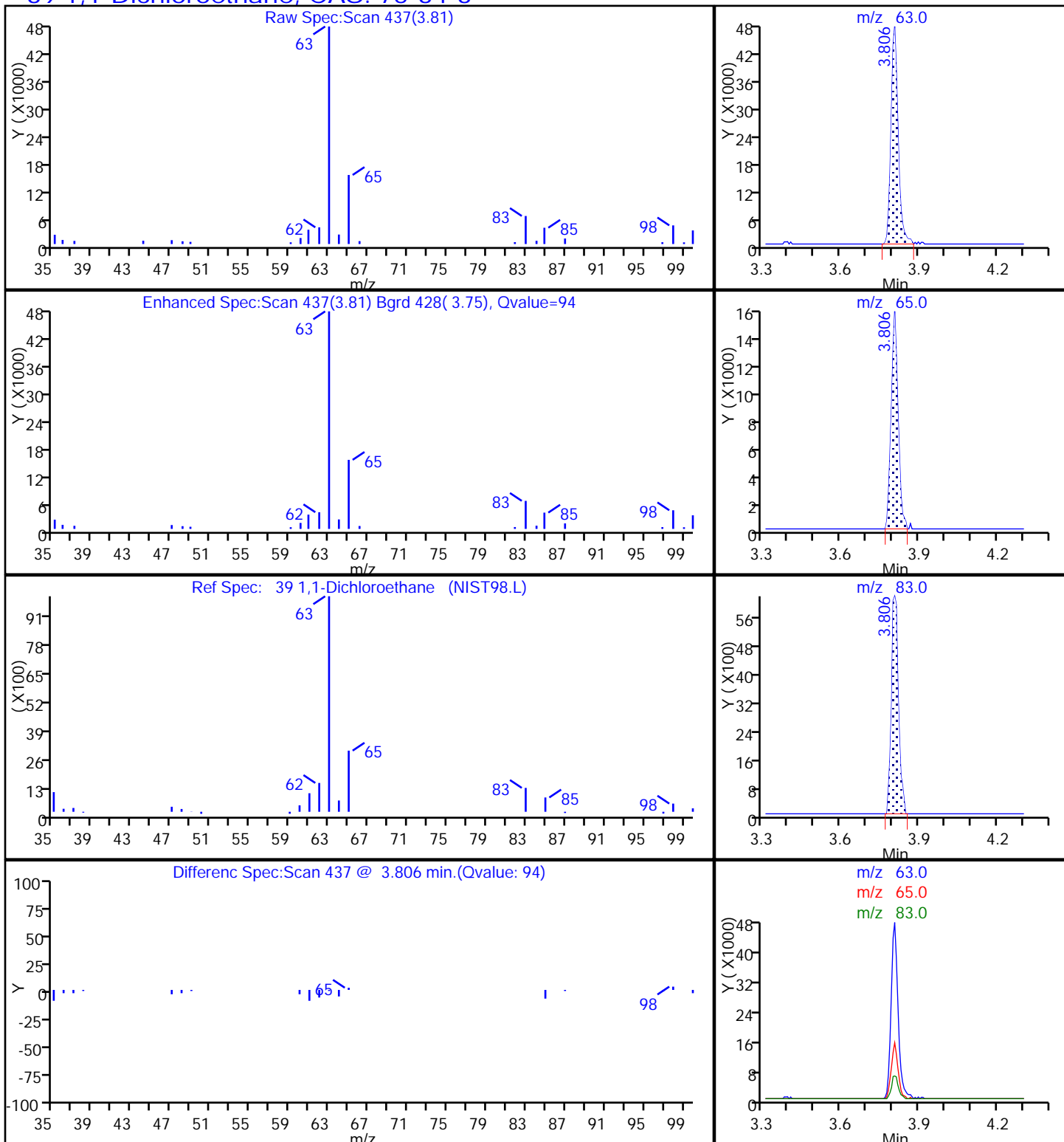
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

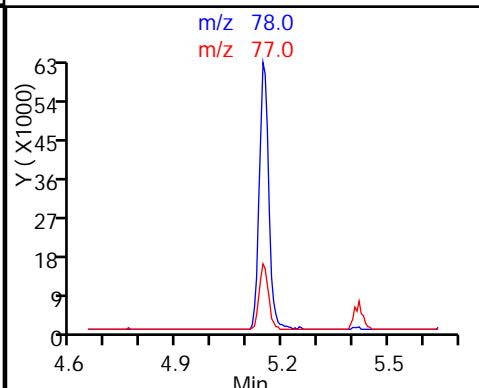
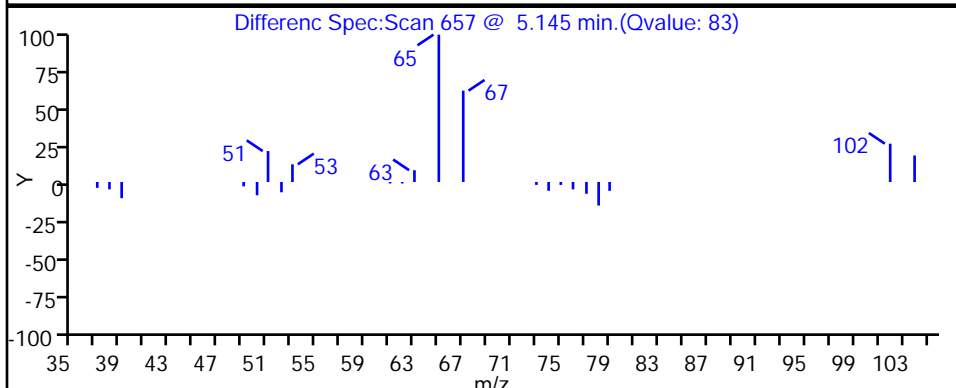
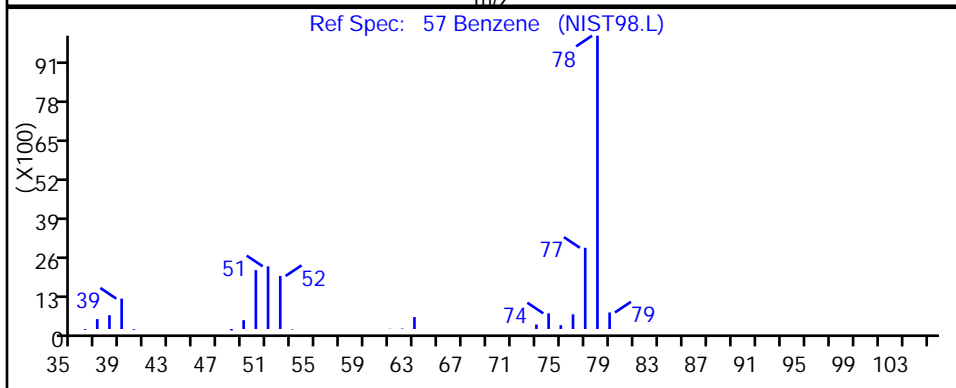
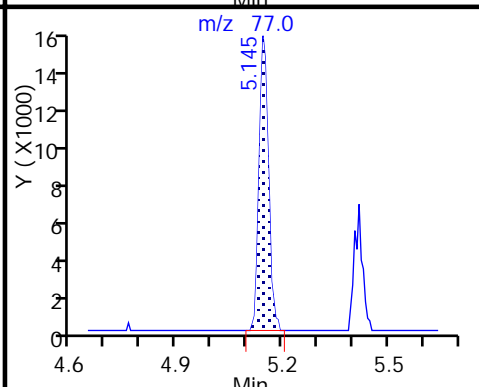
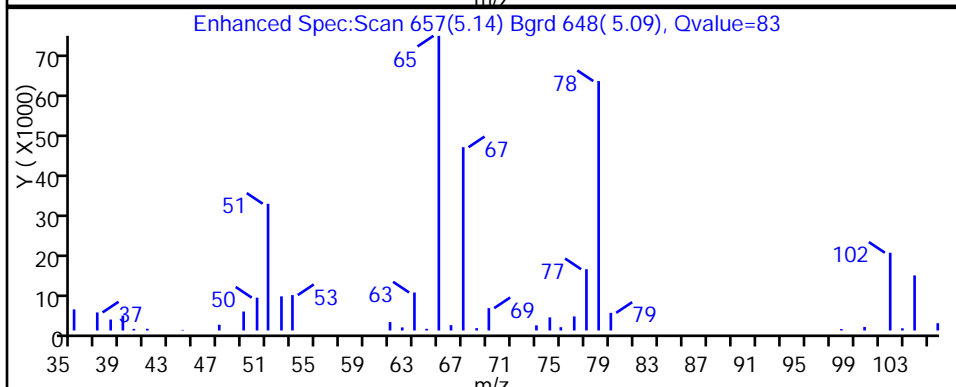
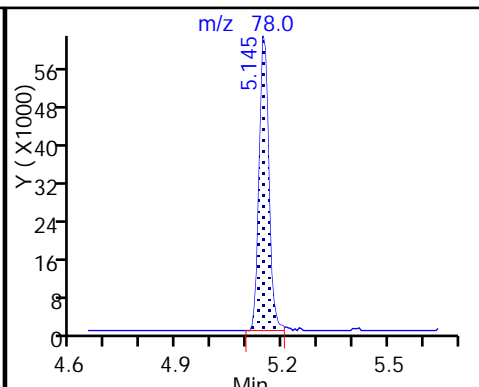
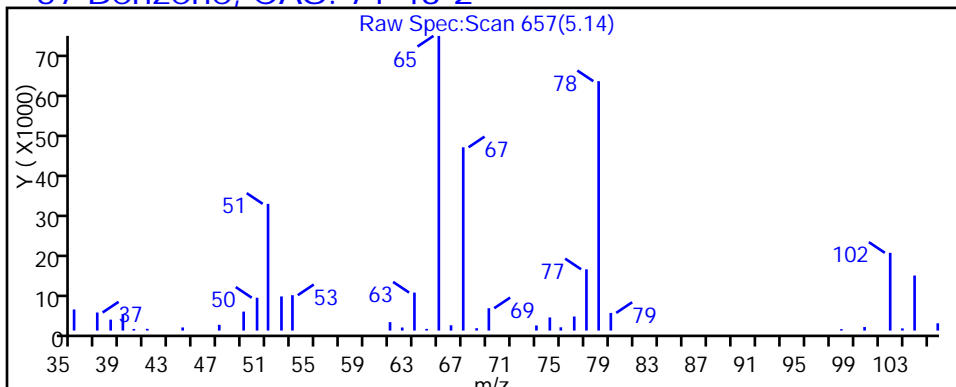
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

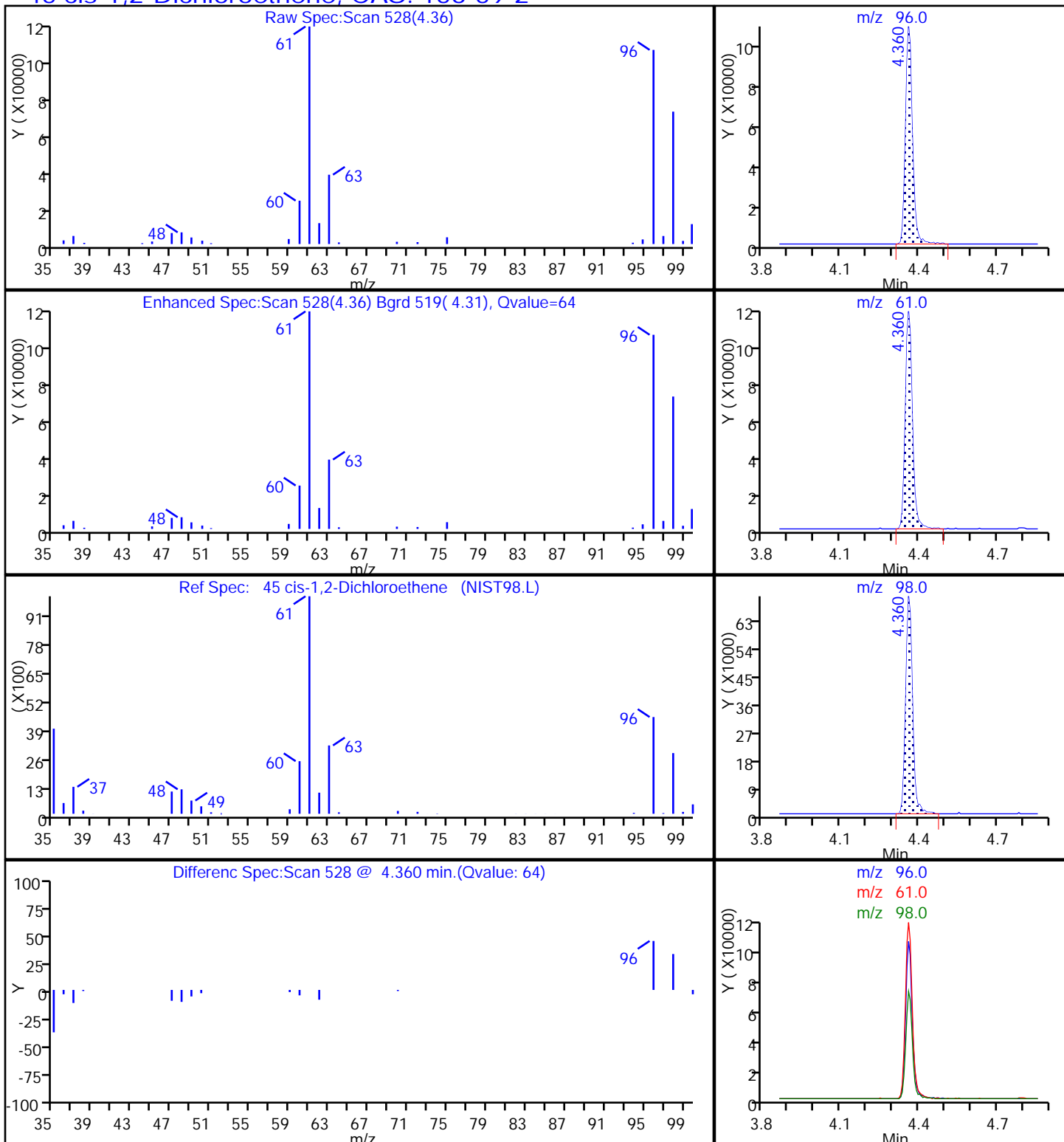
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

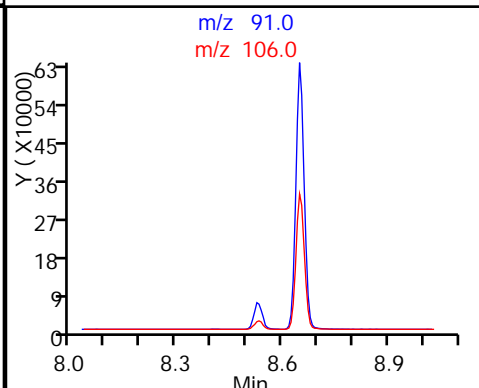
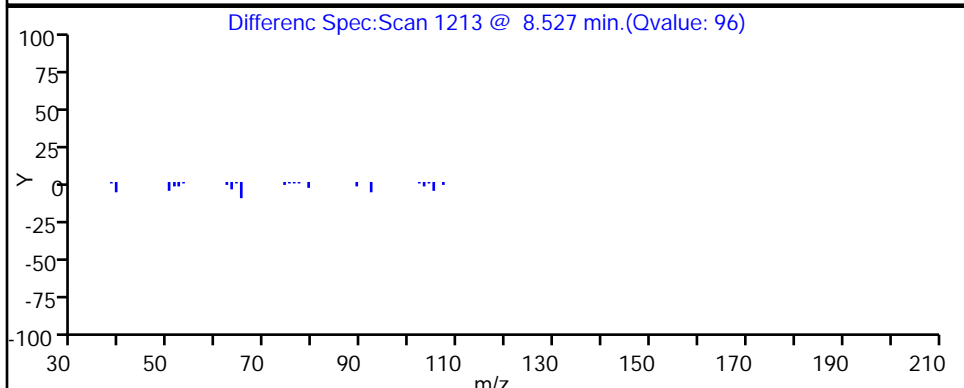
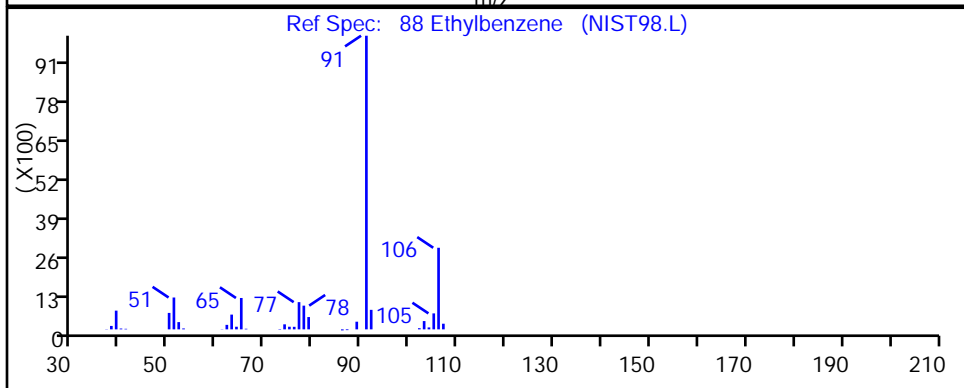
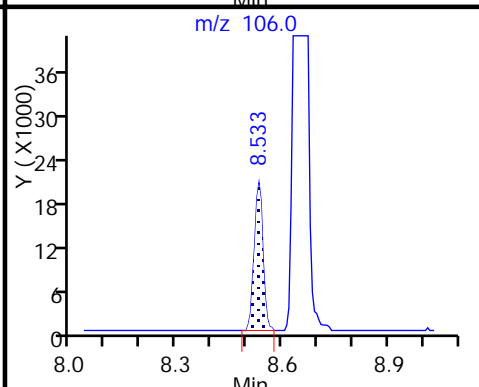
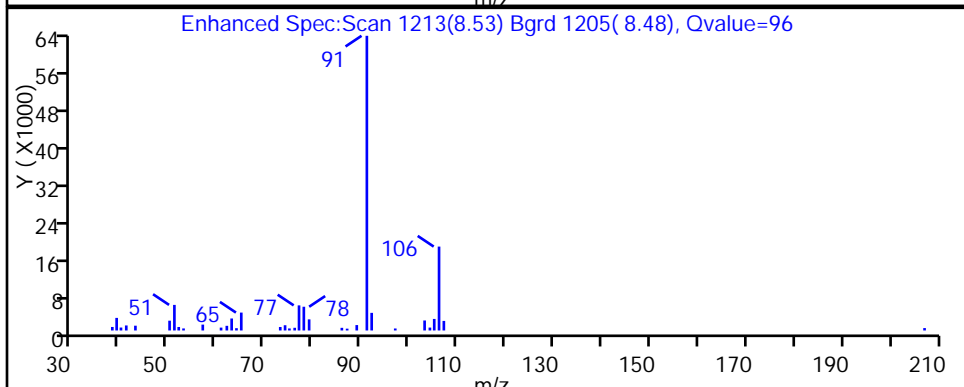
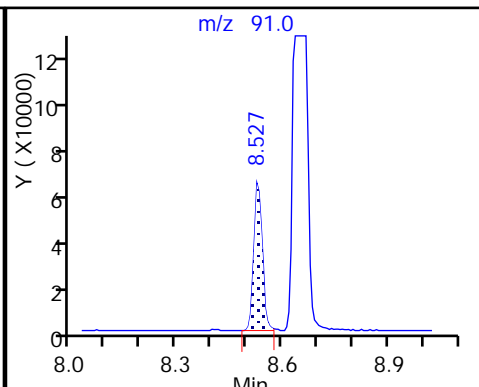
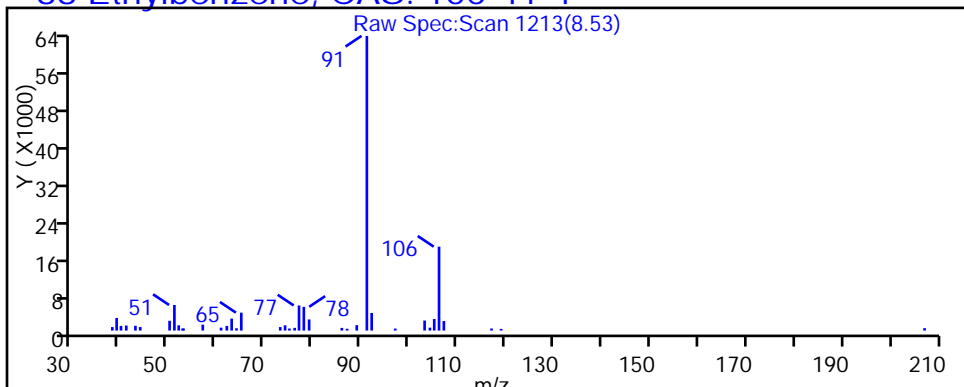
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

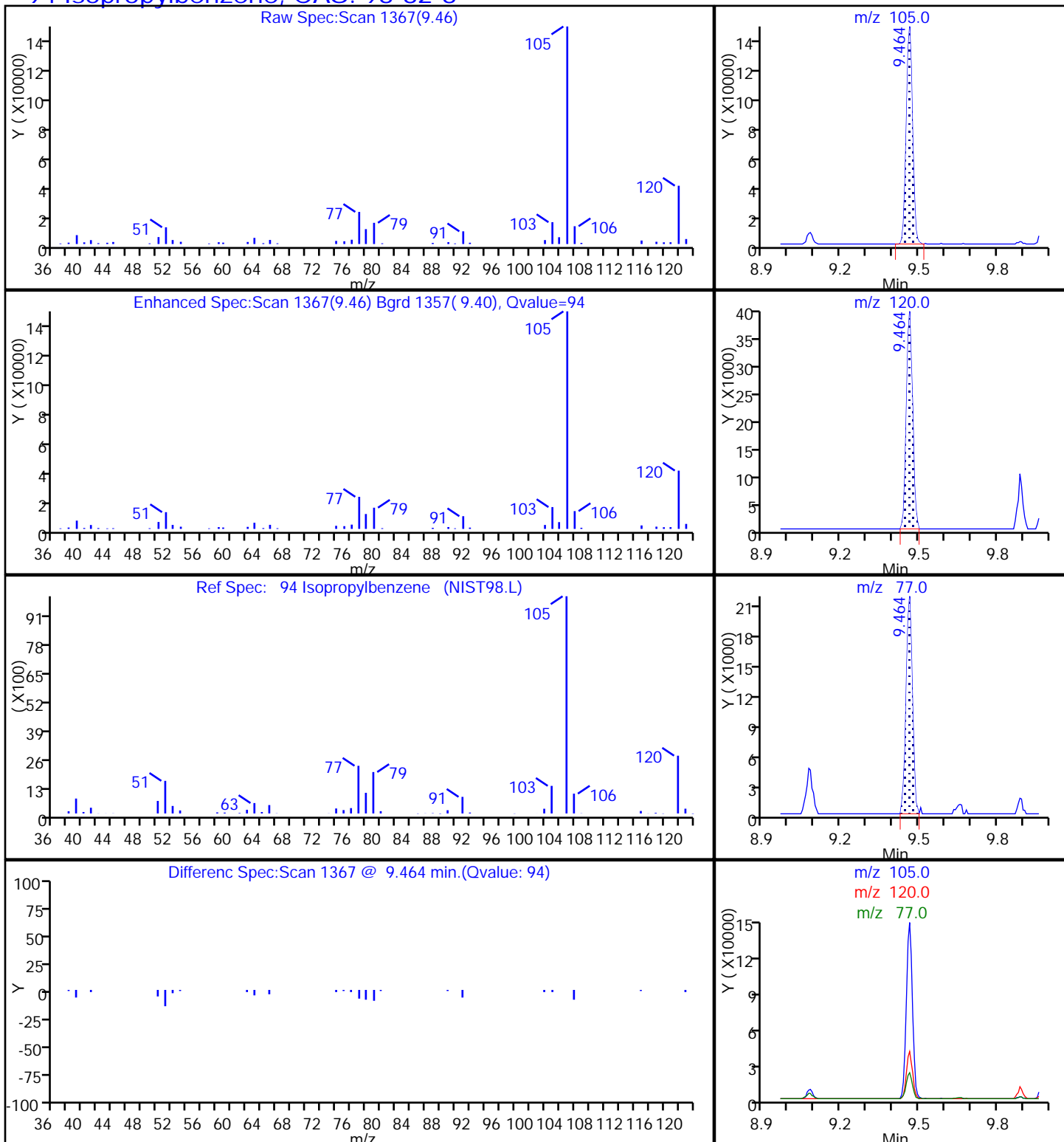
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

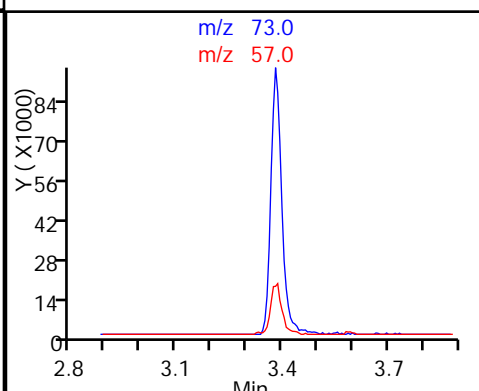
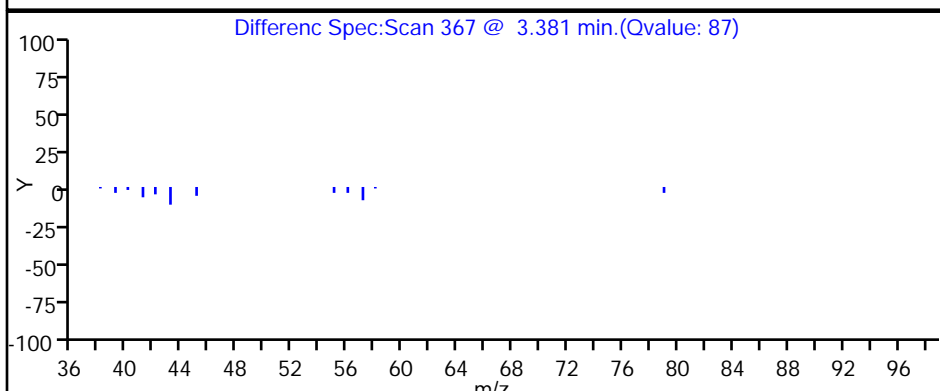
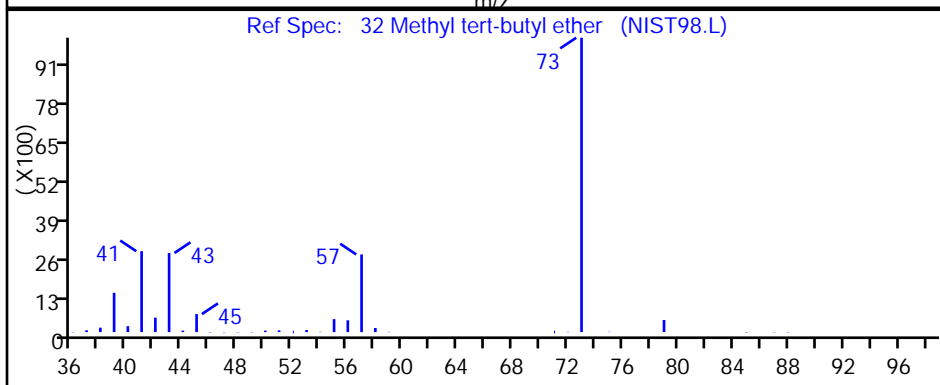
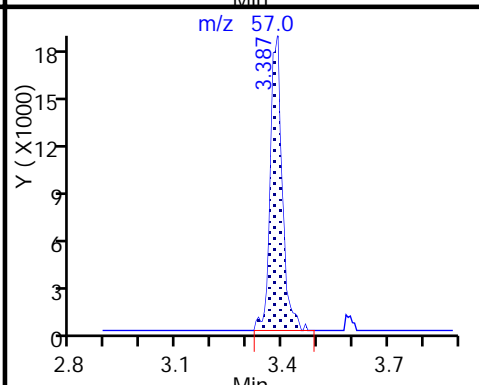
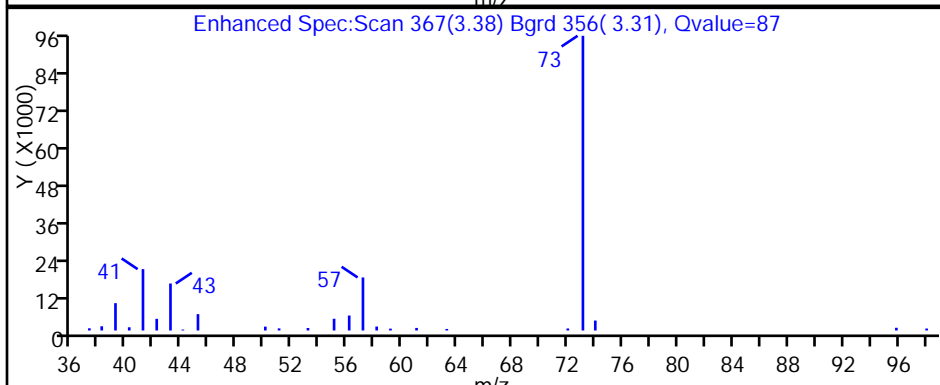
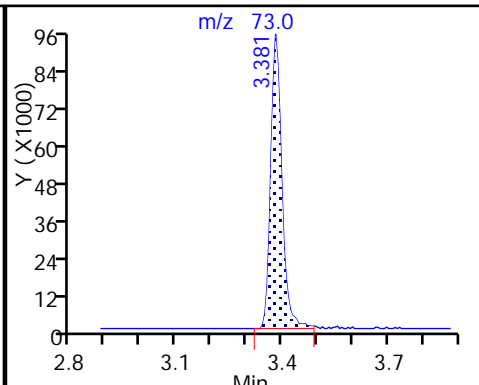
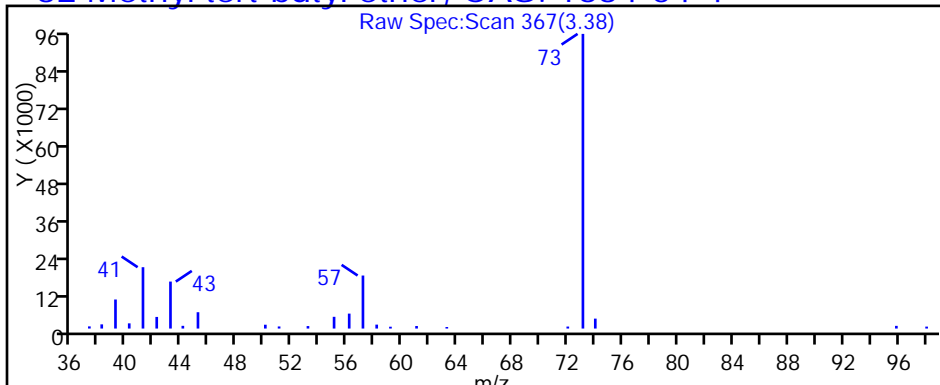
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

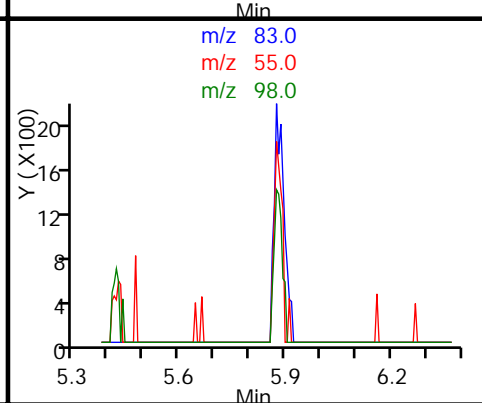
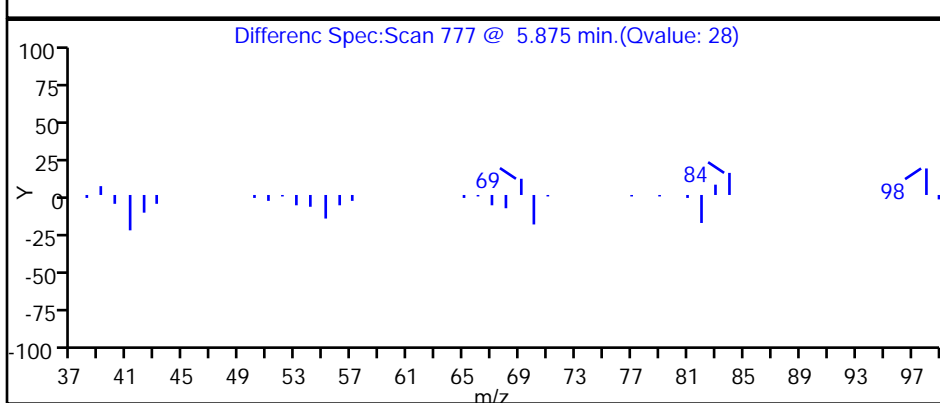
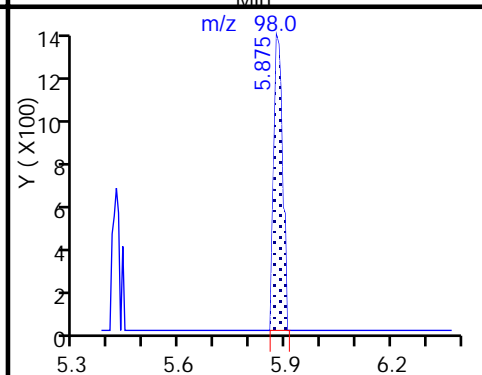
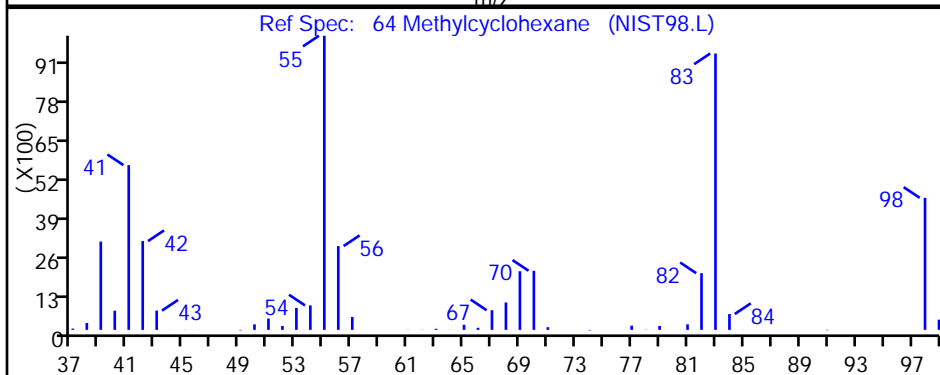
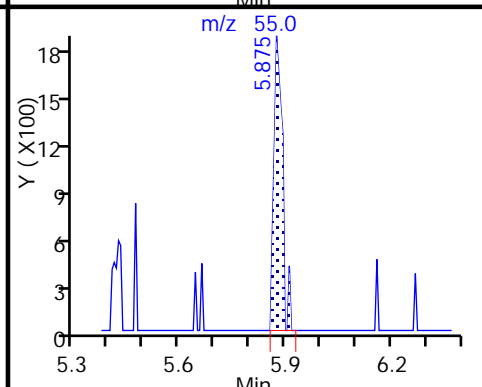
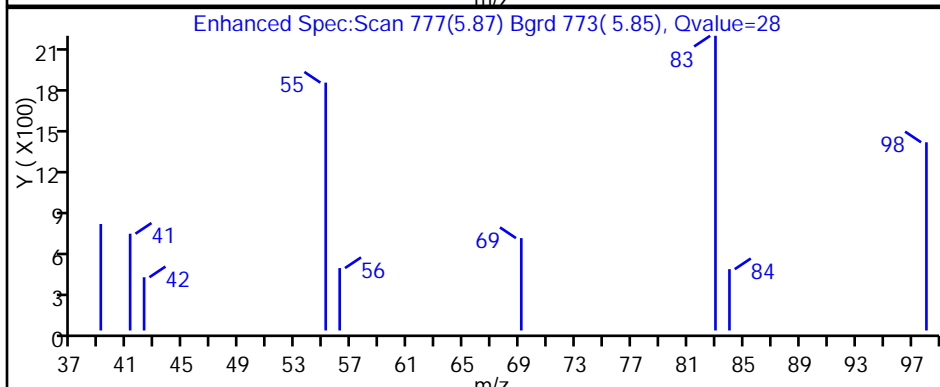
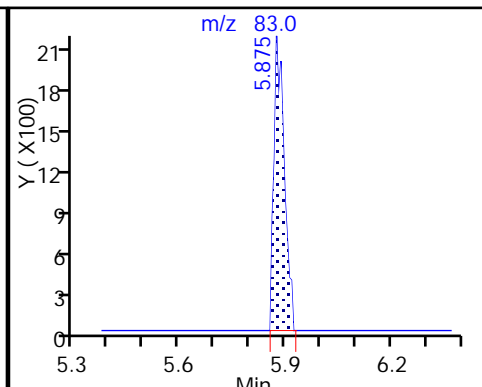
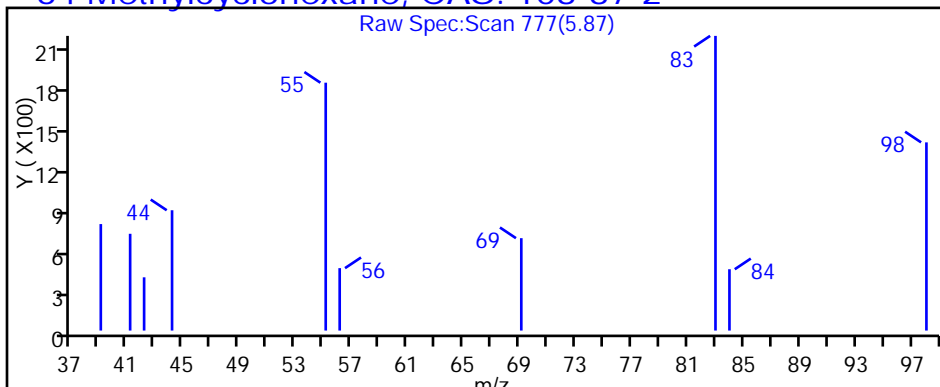
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

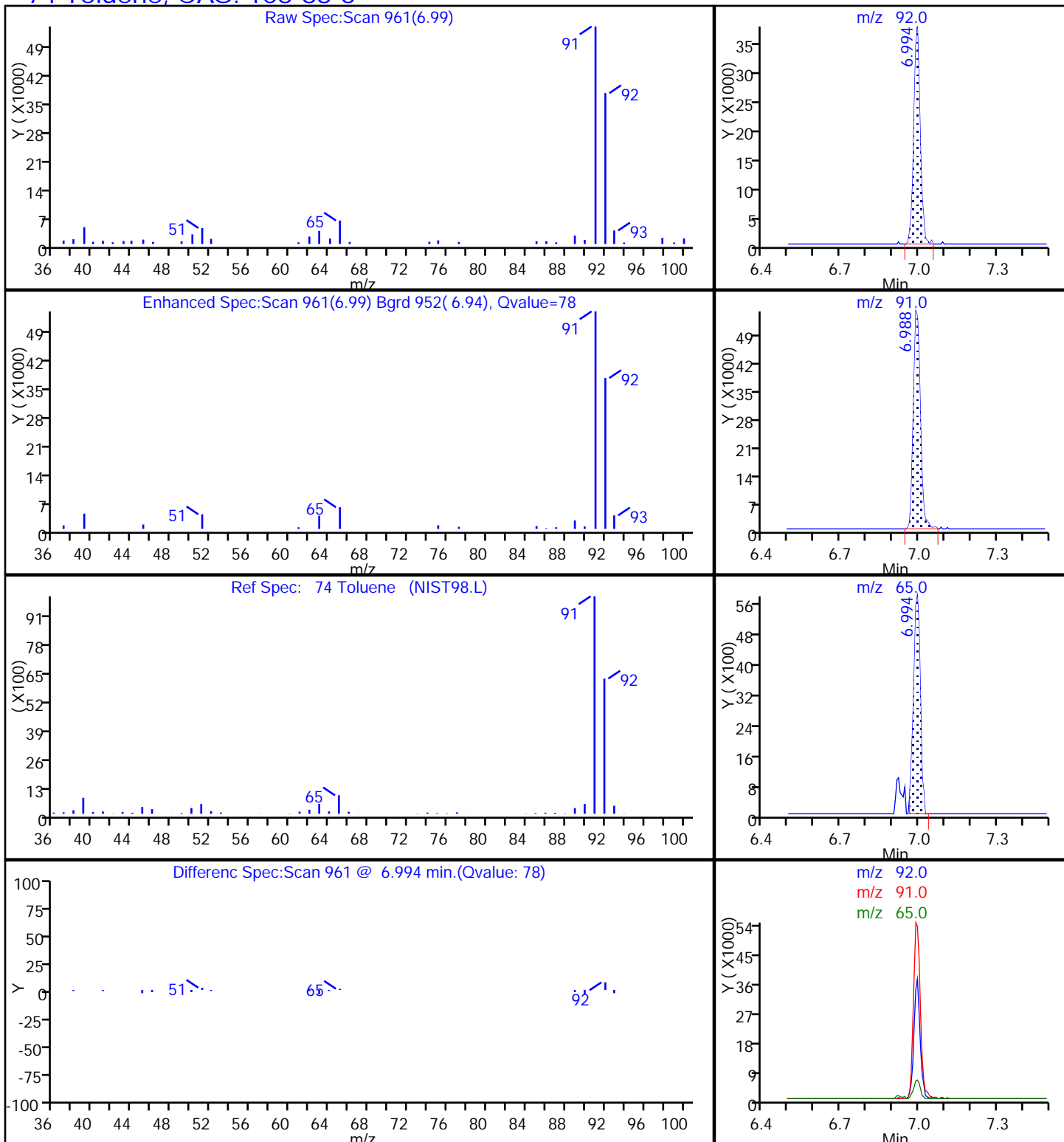
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

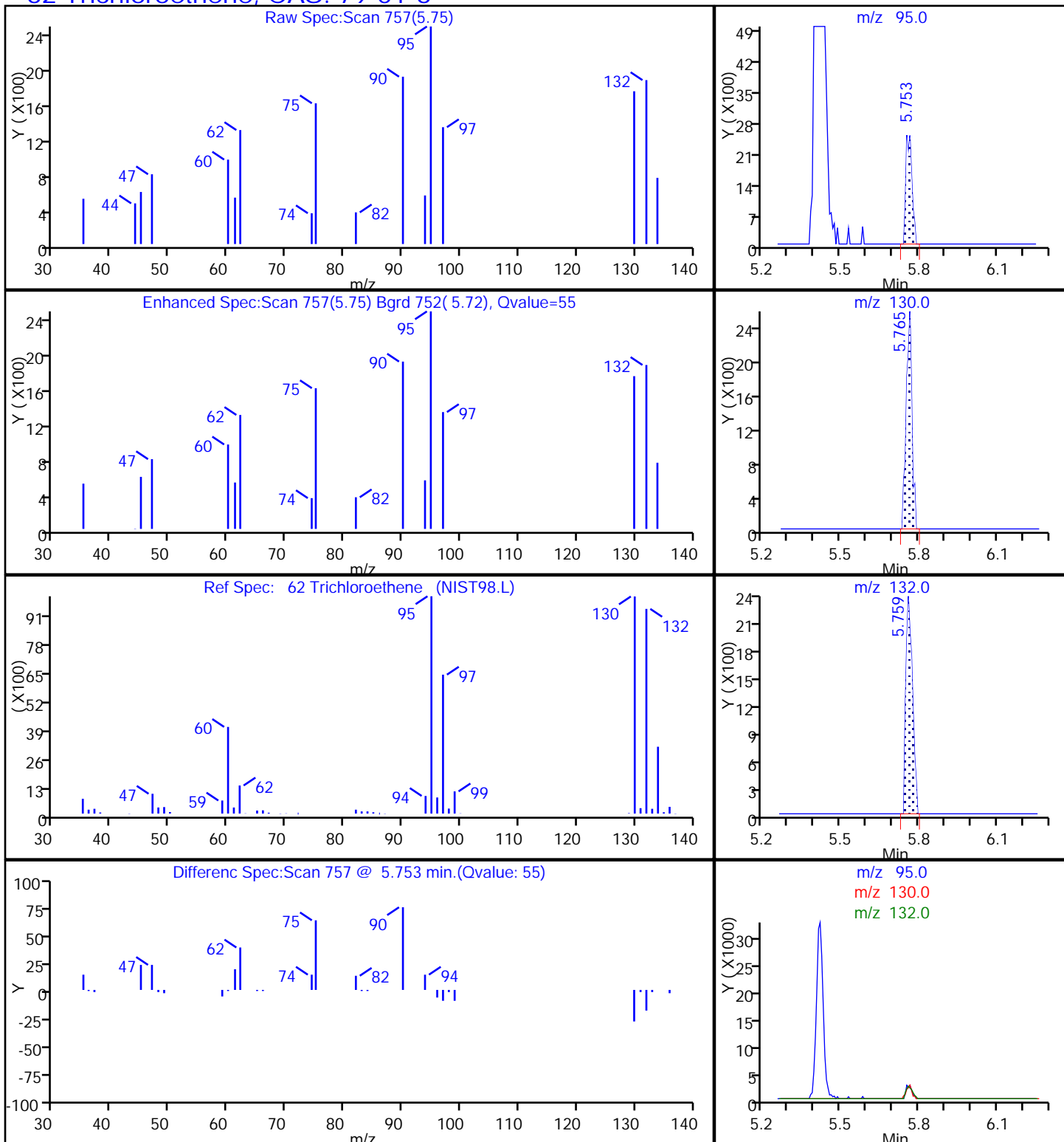
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

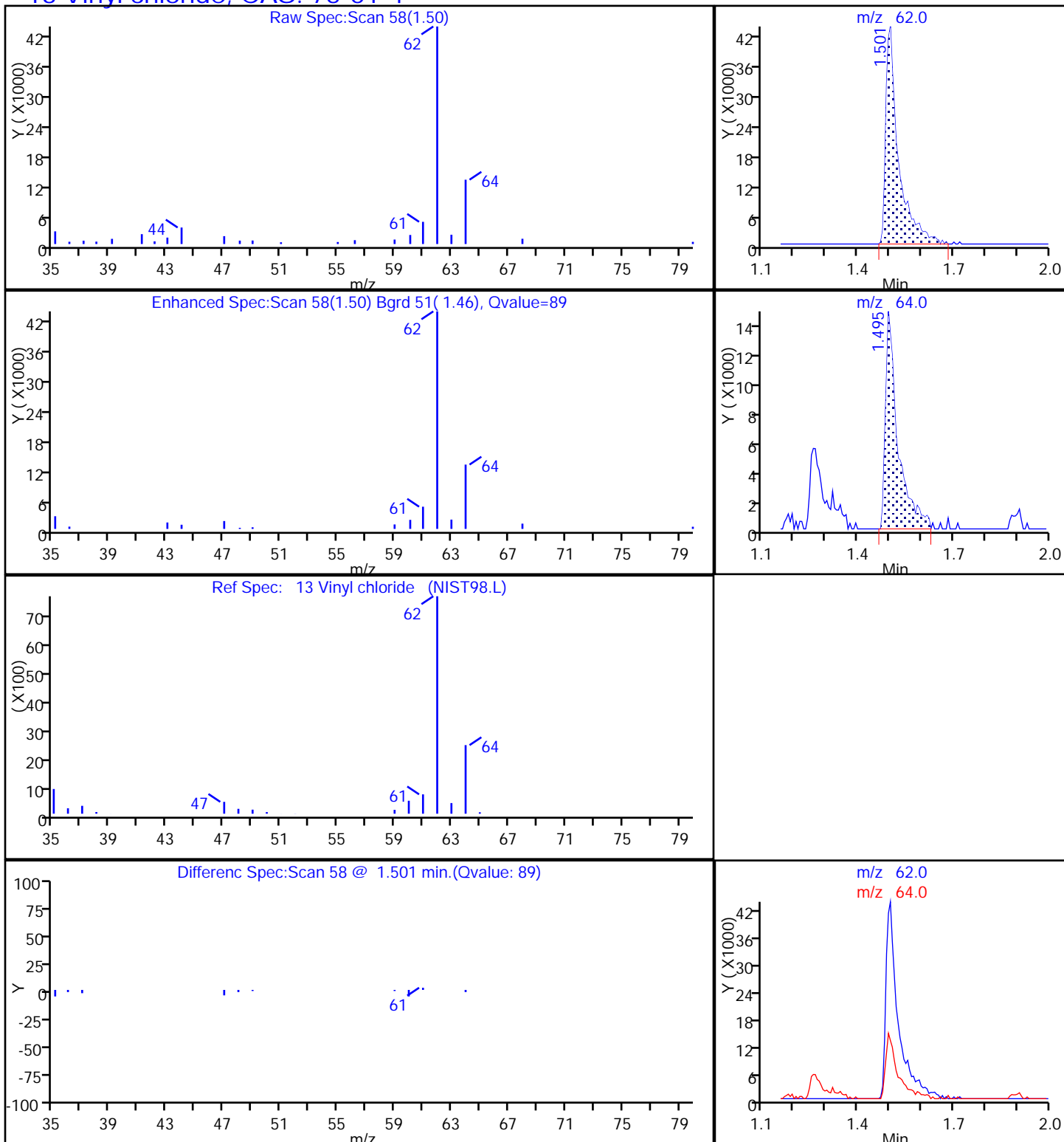
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

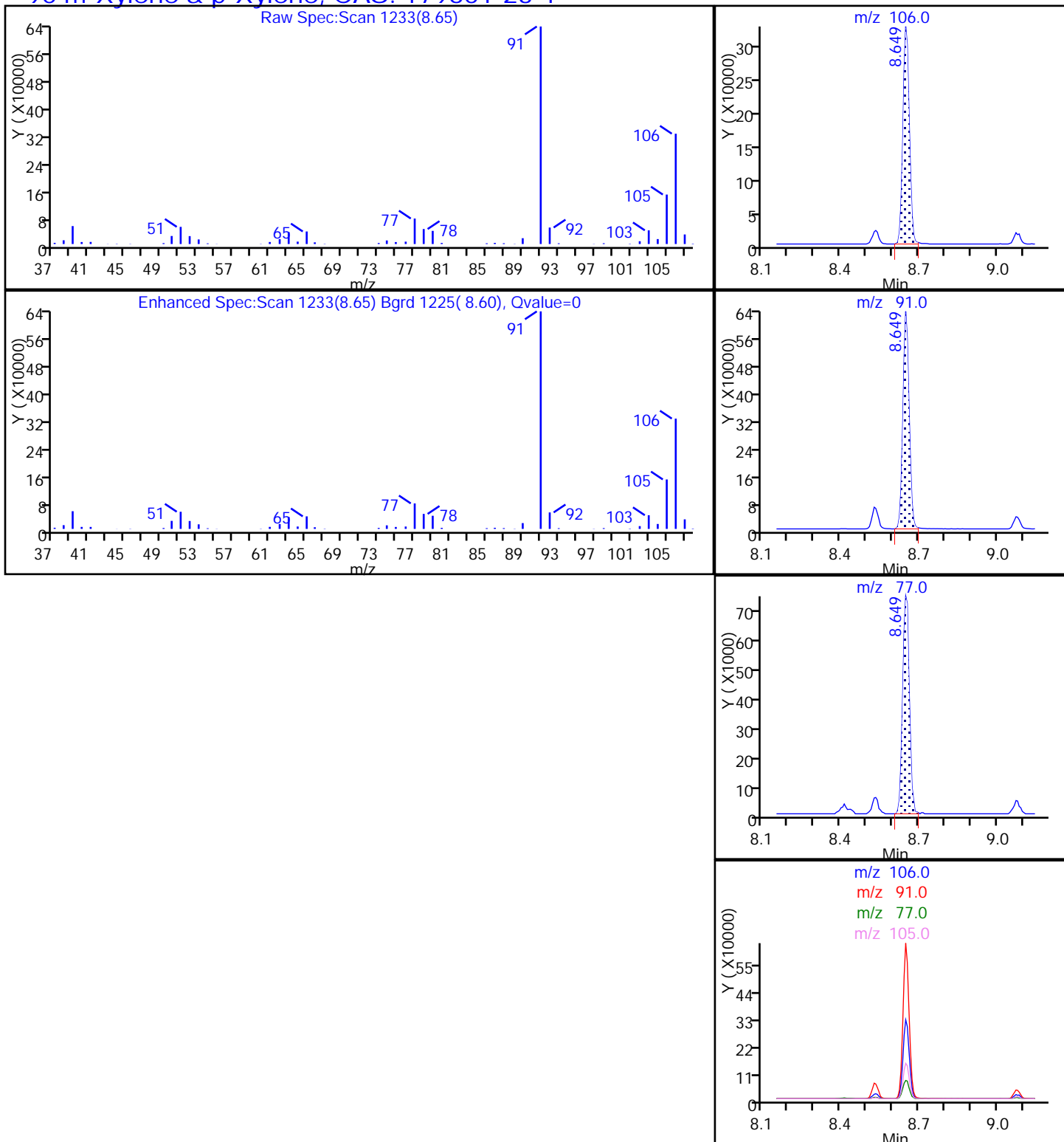
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

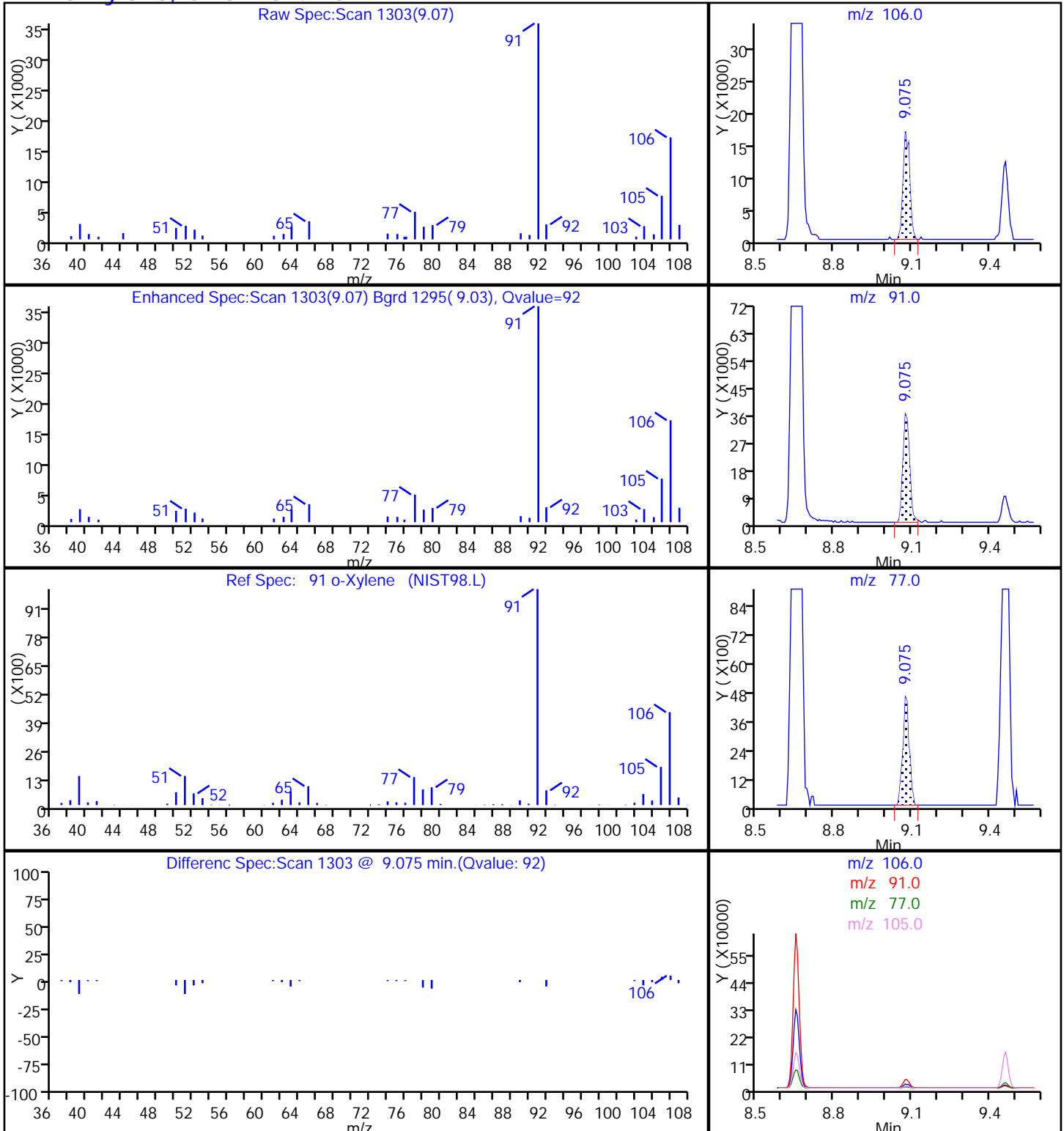
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

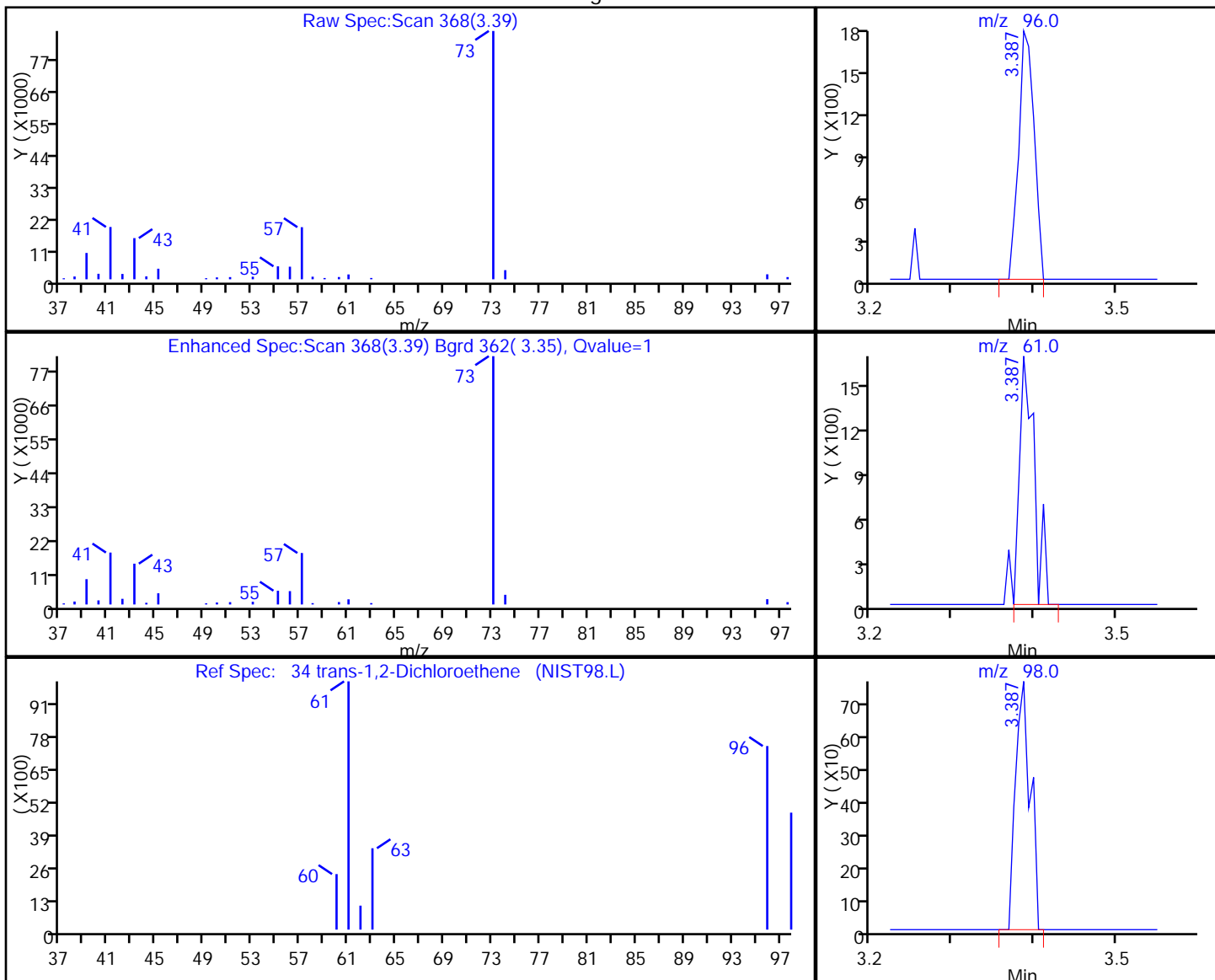


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D
Injection Date: 25-Feb-2018 15:22:30 Instrument ID: HP5973S
Lims ID: 480-131737-F-3 Lab Sample ID: 480-131737-3
Client ID: ML-2D
Operator ID: AM ALS Bottle#: 10 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
3.39	96.00	2293	0.361893
3.39	61.00	2102	
3.39	98.00	955	

Reviewer: moffata, 26-Feb-2018 13:15:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

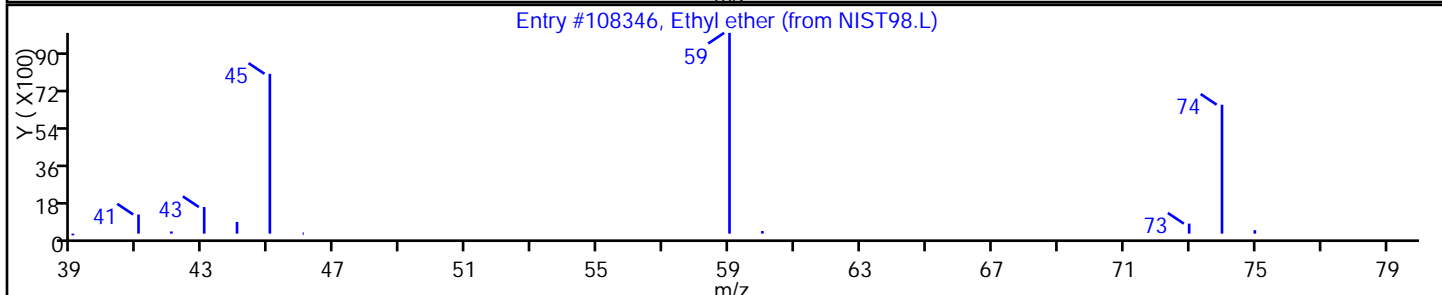
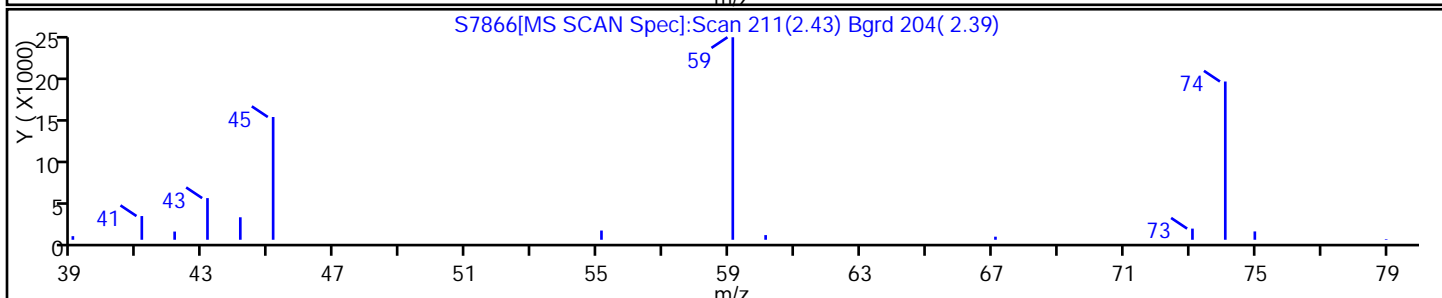
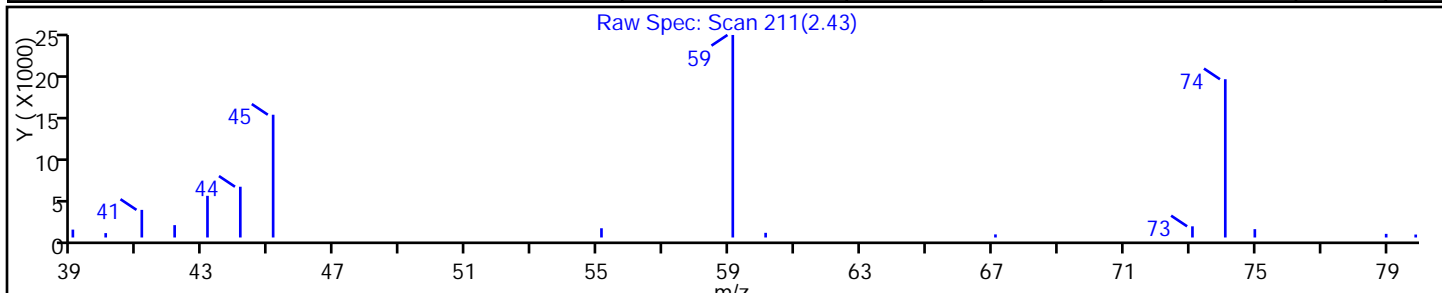
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethyl ether	60-29-7	NIST98.L	108346	C4H10O	74	86



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

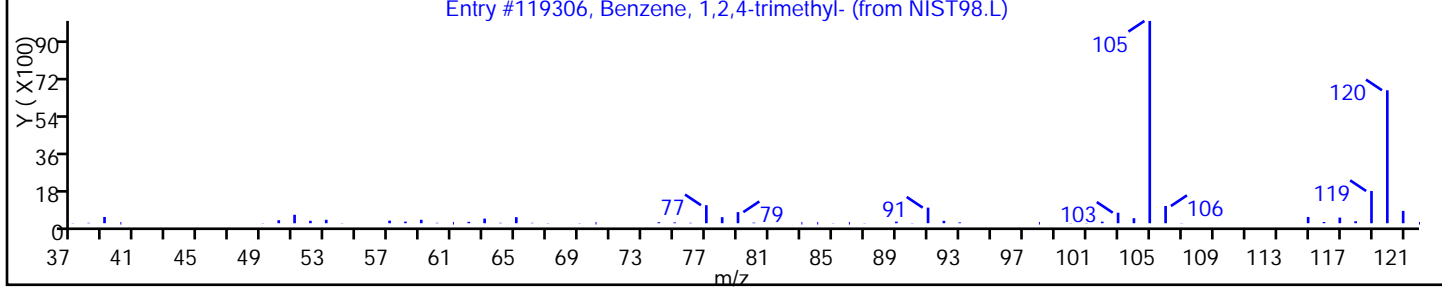
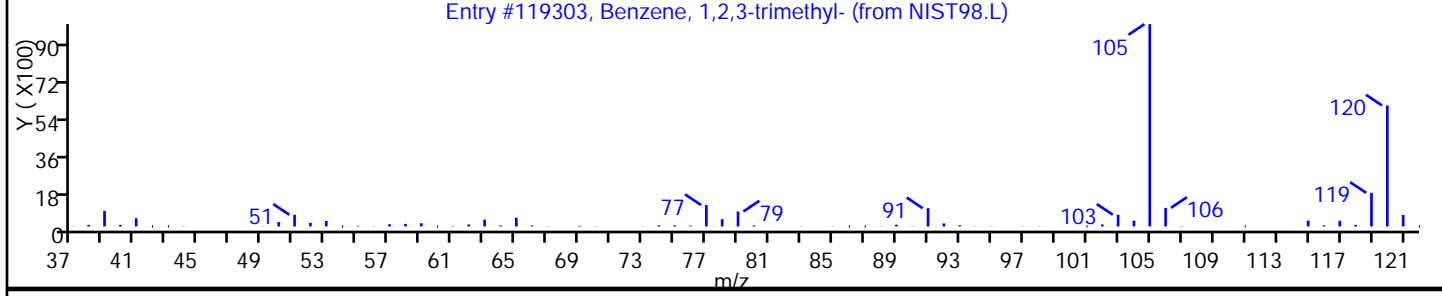
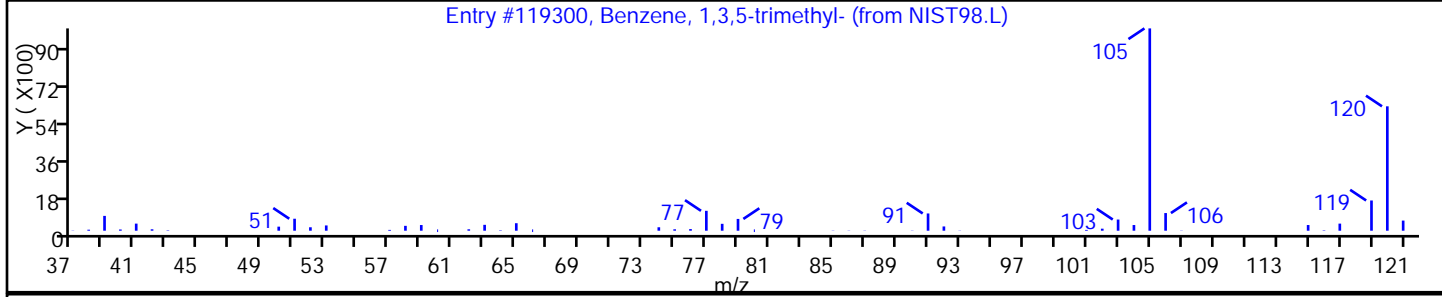
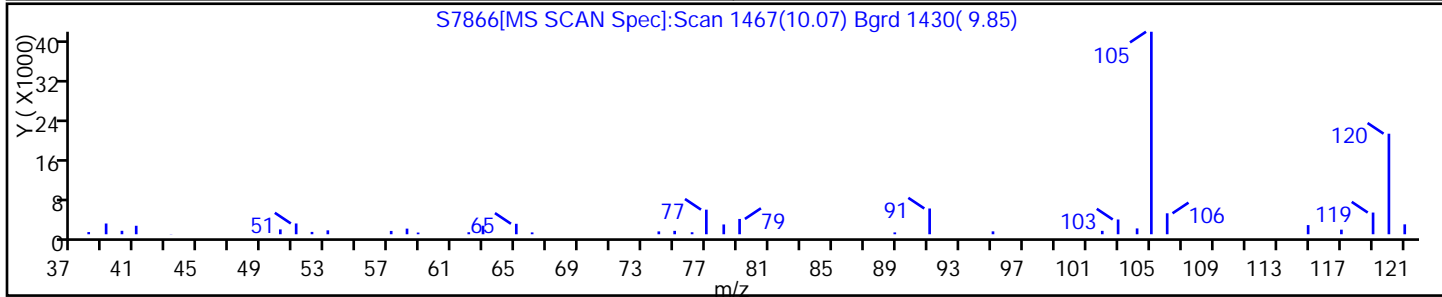
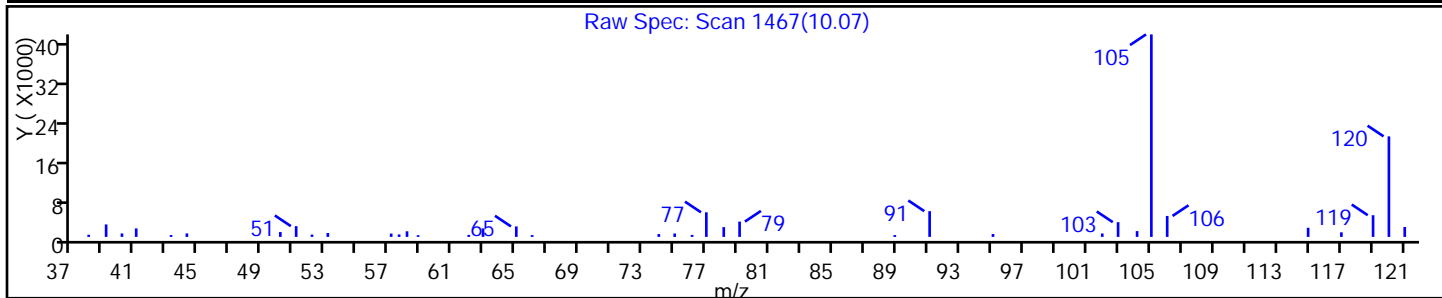
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119300	C9H12	120	94
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	94
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119306	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

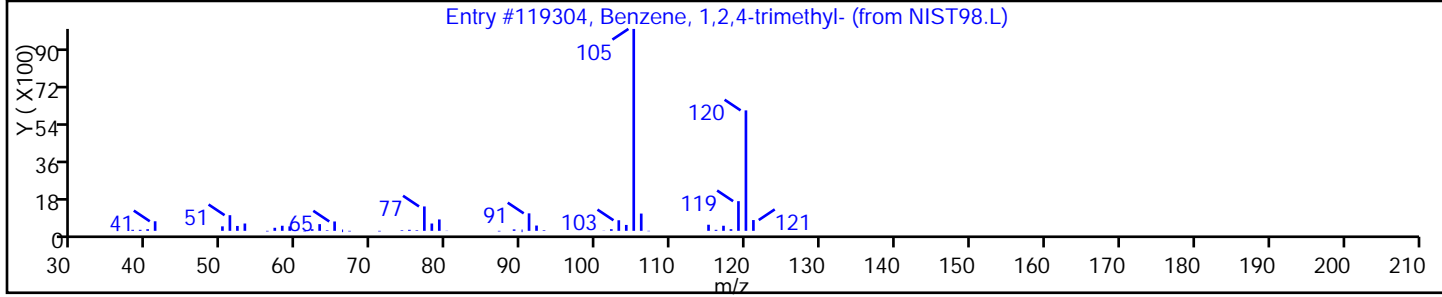
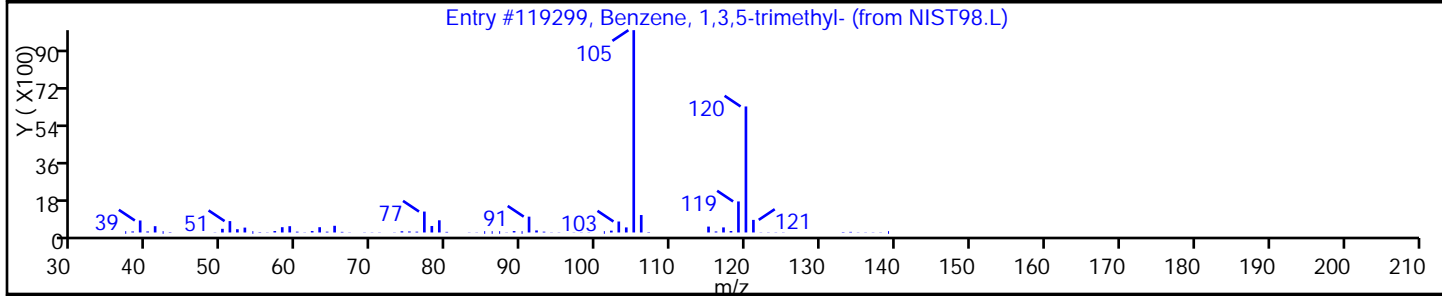
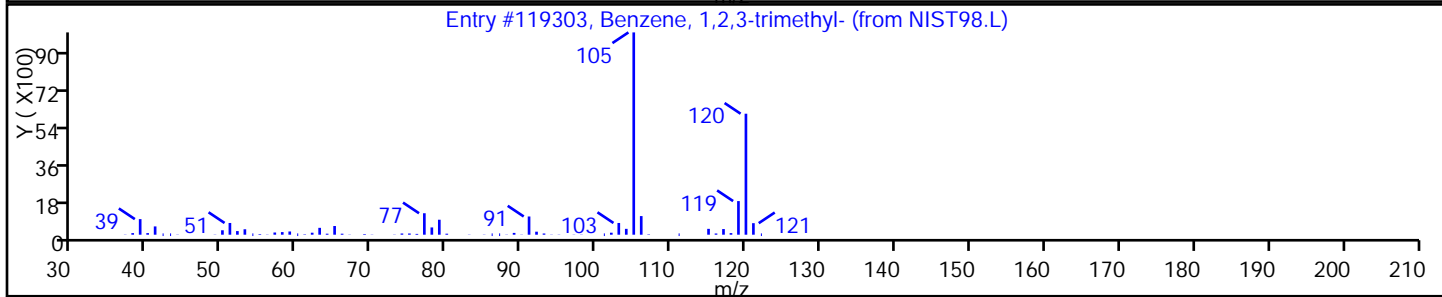
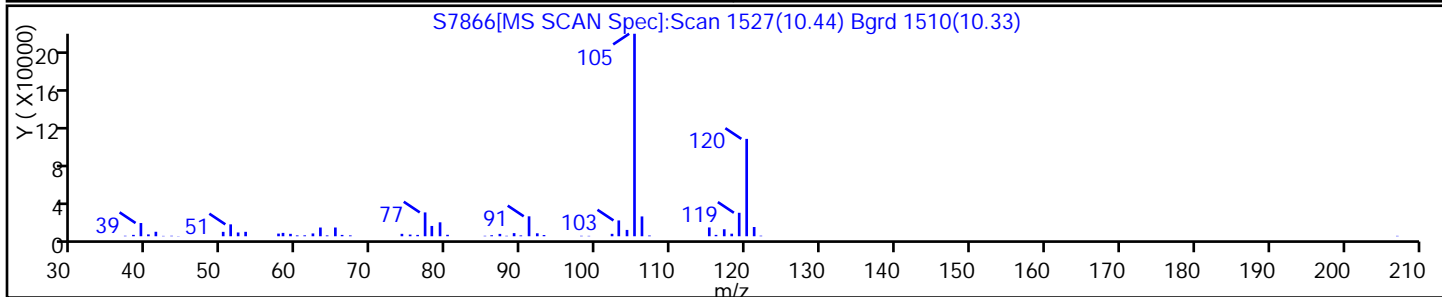
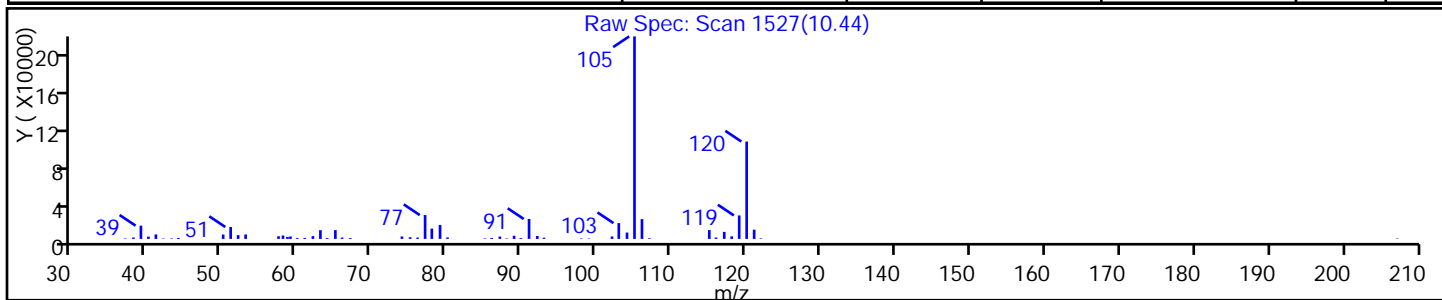
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	97
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	94



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

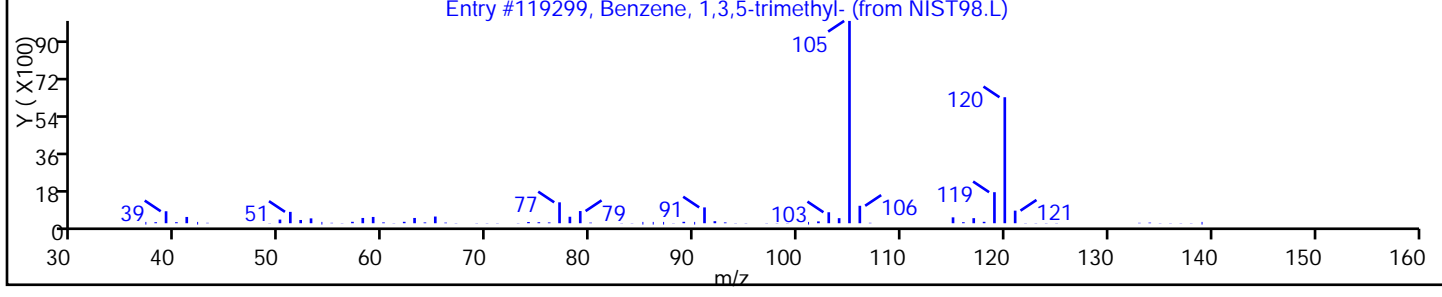
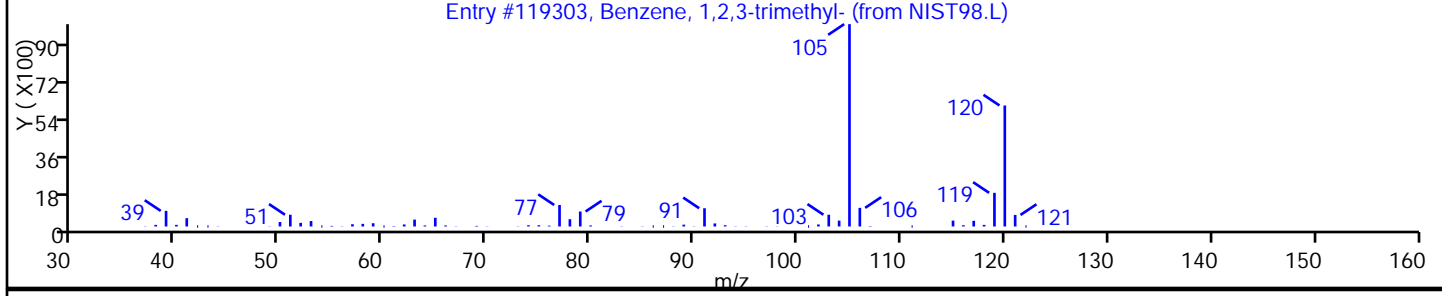
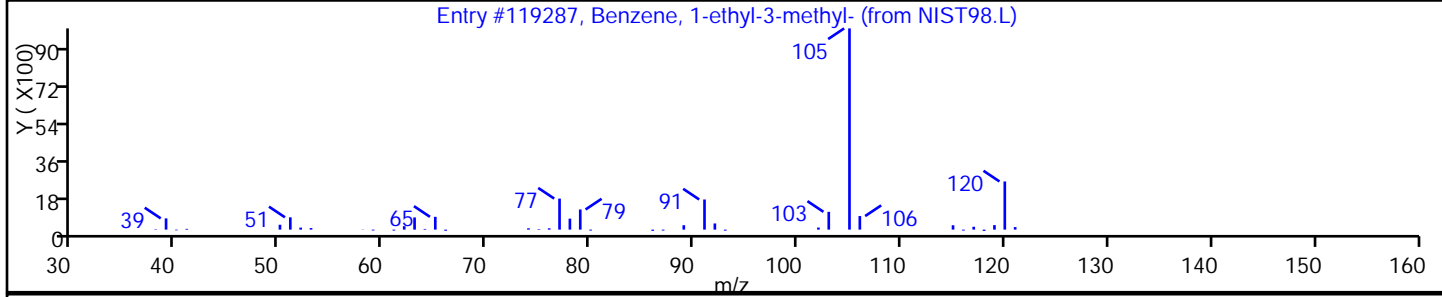
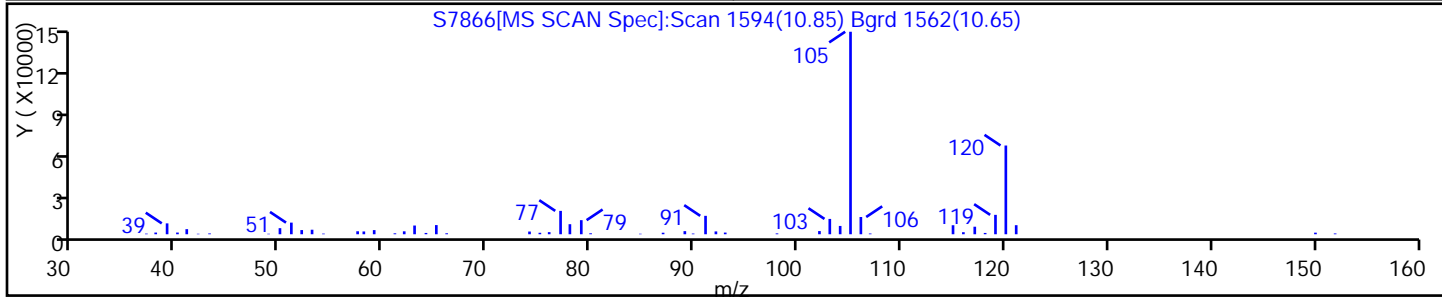
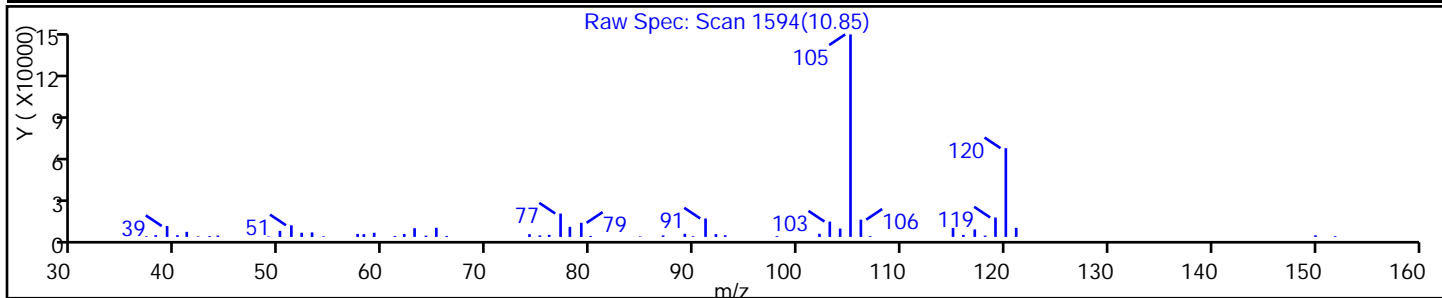
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST98.L	119287	C9H12	120	94
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	94



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7866.D

Injection Date: 25-Feb-2018 15:22:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-3

Lab Sample ID: 480-131737-3

Client ID: ML-2D

Operator ID: AM

ALS Bottle#: 10 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

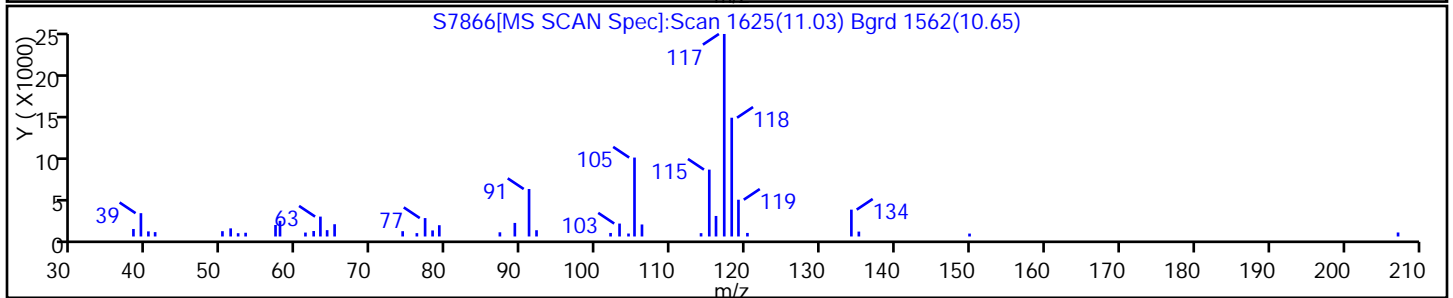
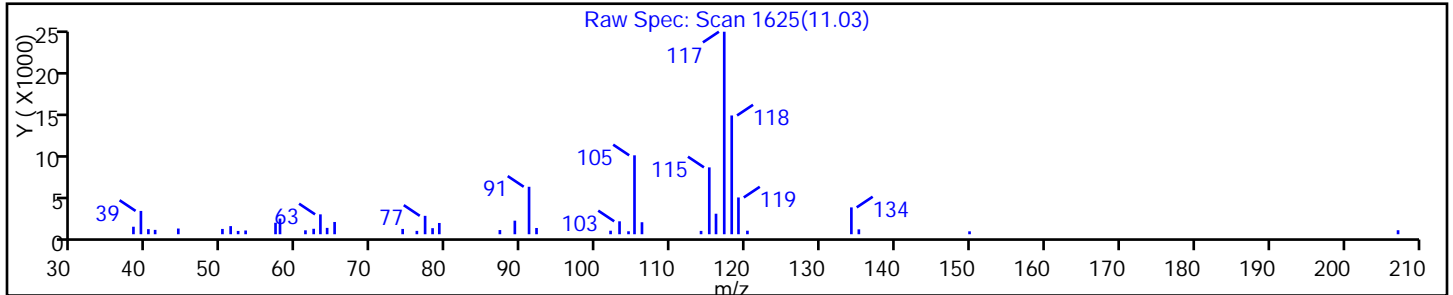
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: N7373.D
 Analysis Method: 8260C Date Collected: 02/21/2018 09:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 11:37
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		40	33
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	8.4
79-00-5	1,1,2-Trichloroethane	ND		40	9.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	130		40	12
75-34-3	1,1-Dichloroethane	680		40	15
75-35-4	1,1-Dichloroethene	ND		40	12
120-82-1	1,2,4-Trichlorobenzene	ND		40	16
96-12-8	1,2-Dibromo-3-Chloropropane	ND		40	16
95-50-1	1,2-Dichlorobenzene	ND		40	32
107-06-2	1,2-Dichloroethane	ND		40	8.4
78-87-5	1,2-Dichloropropane	ND		40	29
541-73-1	1,3-Dichlorobenzene	ND		40	31
106-46-7	1,4-Dichlorobenzene	ND		40	34
78-93-3	2-Butanone (MEK)	ND		400	53
591-78-6	2-Hexanone	ND		200	50
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	84
67-64-1	Acetone	ND		400	120
71-43-2	Benzene	38	J	40	16
75-27-4	Bromodichloromethane	ND		40	16
75-25-2	Bromoform	ND		40	10
74-83-9	Bromomethane	ND		40	28
75-15-0	Carbon disulfide	ND		40	7.6
56-23-5	Carbon tetrachloride	ND		40	11
108-90-7	Chlorobenzene	ND		40	30
124-48-1	Dibromochloromethane	ND		40	13
75-00-3	Chloroethane	72		40	13
67-66-3	Chloroform	ND		40	14
74-87-3	Chloromethane	ND		40	14
156-59-2	cis-1,2-Dichloroethene	2900		40	32
10061-01-5	cis-1,3-Dichloropropene	ND		40	14
110-82-7	Cyclohexane	ND		40	7.2
75-71-8	Dichlorodifluoromethane	ND		40	27
100-41-4	Ethylbenzene	ND		40	30
106-93-4	1,2-Dibromoethane	ND		40	29
98-82-8	Isopropylbenzene	ND		40	32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: N7373.D
 Analysis Method: 8260C Date Collected: 02/21/2018 09:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 11:37
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		100	52
1634-04-4	Methyl tert-butyl ether	ND		40	6.4
108-87-2	Methylcyclohexane	ND		40	6.4
75-09-2	Methylene Chloride	38	J	40	18
100-42-5	Styrene	ND		40	29
127-18-4	Tetrachloroethene	ND		40	14
108-88-3	Toluene	160		40	20
156-60-5	trans-1,2-Dichloroethene	ND		40	36
10061-02-6	trans-1,3-Dichloropropene	ND		40	15
79-01-6	Trichloroethene	ND		40	18
75-69-4	Trichlorofluoromethane	ND		40	35
75-01-4	Vinyl chloride	870		40	36
1330-20-7	Xylenes, Total	ND		80	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: N7373.D
 Analysis Method: 8260C Date Collected: 02/21/2018 09:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 11:37
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 450

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.52	450	T J N	94%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D
 Lims ID: 480-131737-H-4
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 28-Feb-2018 11:37:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Sample Info: 480-131737-H-4
 Misc. Info.: 480-0069548-008
 Operator ID: RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2018 09:35:42 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: farrellr Date: 01-Mar-2018 09:36:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	179337	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	654452	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	342300	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	218723	27.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	288231	26.0	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	96	822380	25.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.647	9.640	0.007	93	267043	26.2	
11 Dichlorodifluoromethane	85		1.336				ND	U
13 Chloromethane	50		1.507				ND	
14 Vinyl chloride	62	1.586	1.586	0.000	97	344103	21.7	
15 Bromomethane	94		1.896				ND	
16 Chloroethane	64	1.981	1.987	-0.006	81	15290	1.80	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	Ua
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.000	93	23059	3.18	
23 Acetone	43		2.790				ND	
25 Carbon disulfide	76		2.888				ND	
28 Methyl acetate	43		3.088				ND	
30 Methylene Chloride	84	3.174	3.180	-0.006	88	14189	0.9483	
32 Methyl tert-butyl ether	73		3.411				ND	Ua
33 trans-1,2-Dichloroethene	96	3.405	3.417	-0.012	55	2654	0.2848	
36 1,1-Dichloroethane	63	3.812	3.818	-0.006	97	349582	17.0	
43 cis-1,2-Dichloroethene	96	4.354	4.360	-0.006	89	783227	73.5	
44 2-Butanone (MEK)	43		4.390				ND	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97		4.798				ND	U
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.944				ND	
55 Benzene	78	5.139	5.145	-0.006	92	36681	0.9614	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95	5.753	5.753	0.000	46	2448	0.2441	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.893				ND	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	U
73 Toluene	92	6.982	6.982	0.000	98	97994	4.01	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166	7.517	7.523	-0.006	83	3020	0.2895	
82 2-Hexanone	43		7.663				ND	
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91		8.521				ND	
90 m-Xylene & p-Xylene	106	8.649	8.649	0.000	0	8136	0.4591	
91 o-Xylene	106	9.069	9.069	0.001	90	3183	0.1861	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105		9.458				ND	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		0.6452	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D
 Lims ID: 480-131737-H-4
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 28-Feb-2018 11:37:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Sample Info: 480-131737-H-4
 Misc. Info.: 480-0069548-008
 Operator ID: RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2018 09:35:42 Calib Date: 31-Jan-2018 23:35:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019
 First Level Reviewer: farrellr Date: 01-Mar-2018 09:36:15

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
2.517	991440	11.3	147	94	21652	C2HCl2F3	152	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 147 Fluorobenzene (IS)	5.406	2201648	25.0

QC Flag Legend

Processing Flags

Reagents:

N_8260_Surr_00316 Amount Added: 1.00 Units: uL Run Reagent
 N 8260 IS_00105 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Operator ID: RF

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Worklist Smp#: 8

Client ID: ML-7I

Purge Vol: 5.000 mL

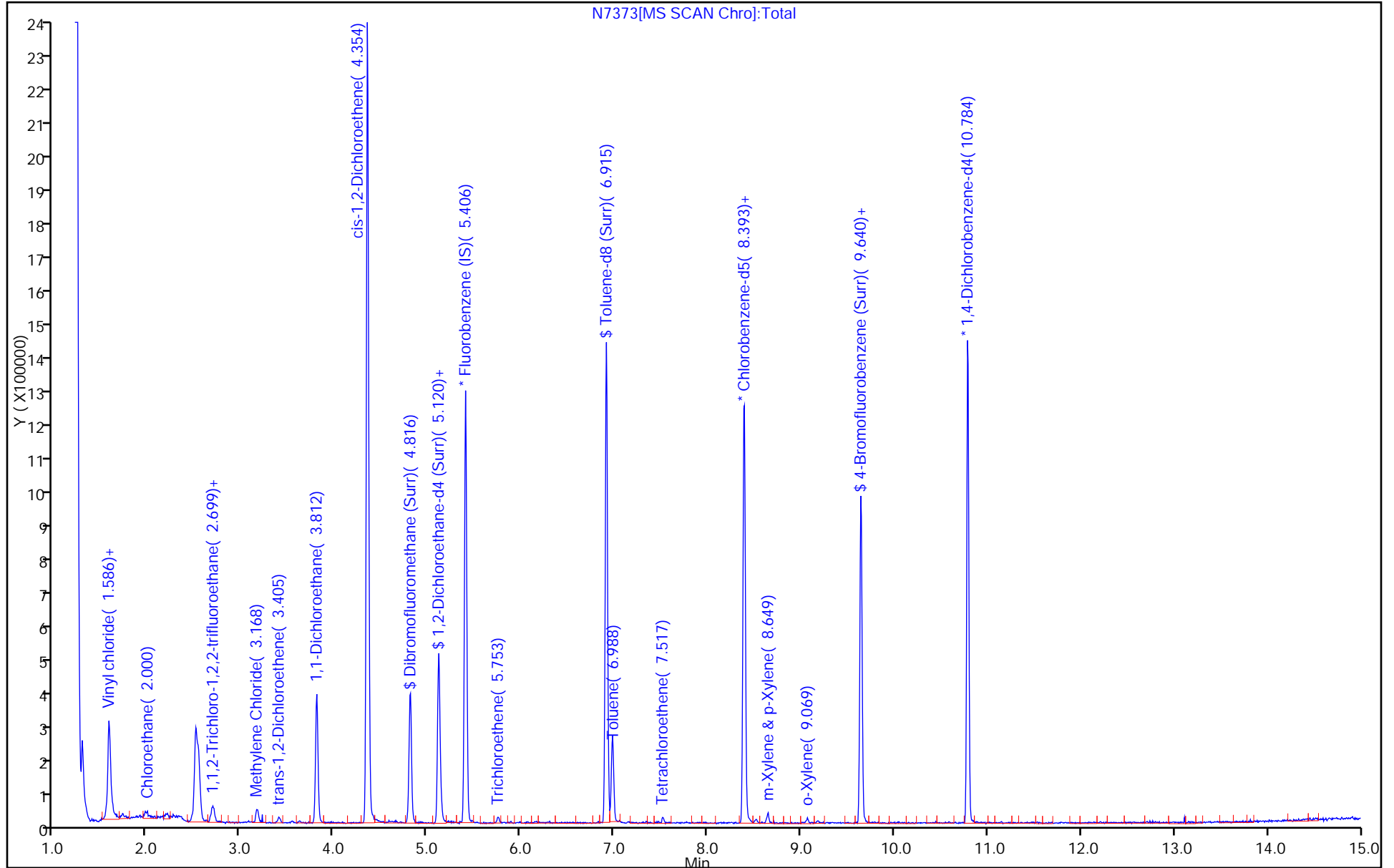
Dil. Factor: 40.0000

ALS Bottle#: 8

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

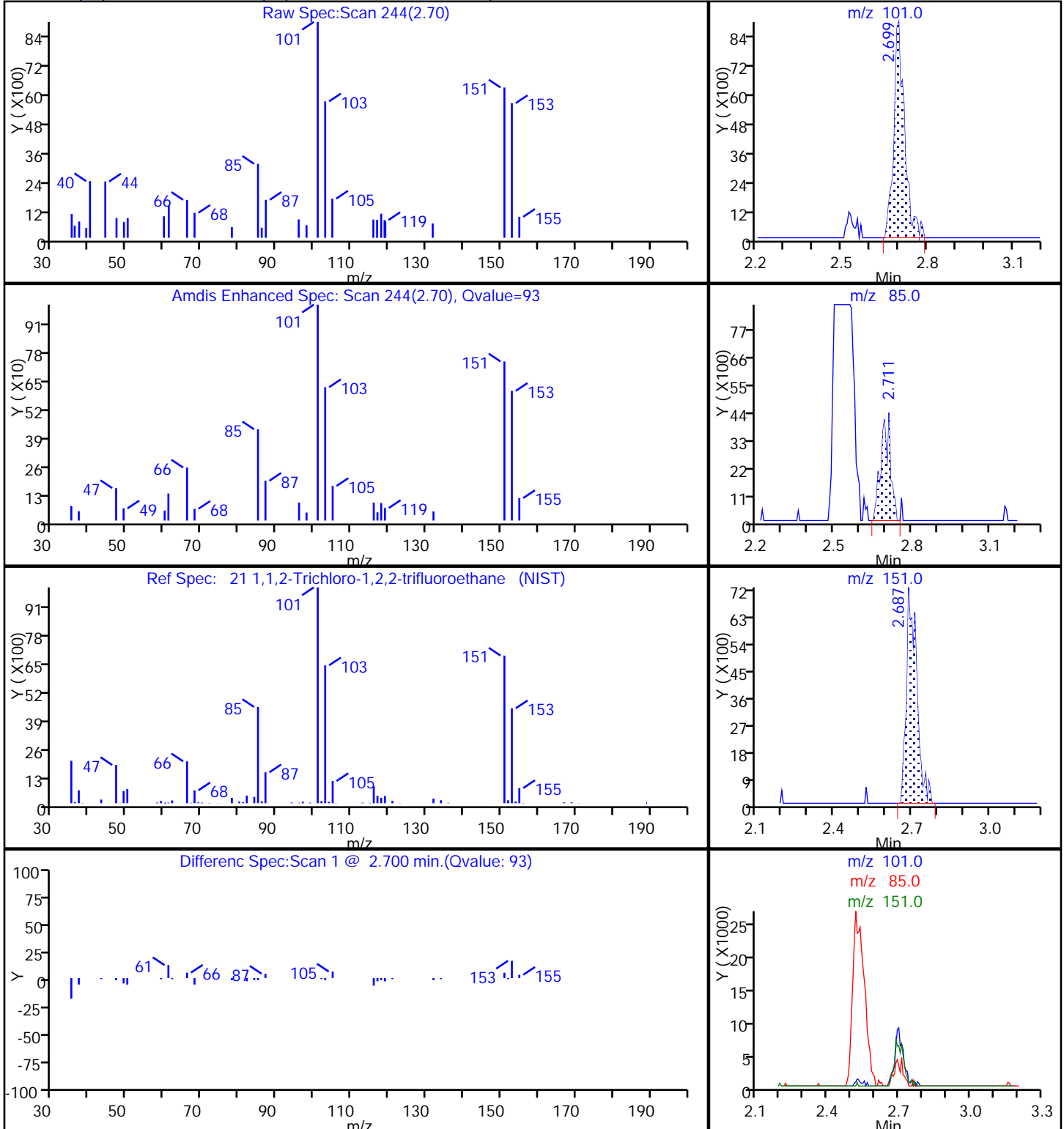
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

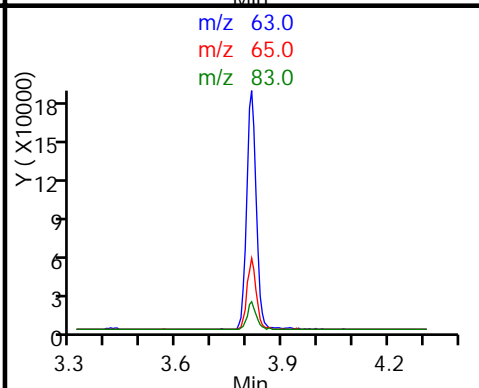
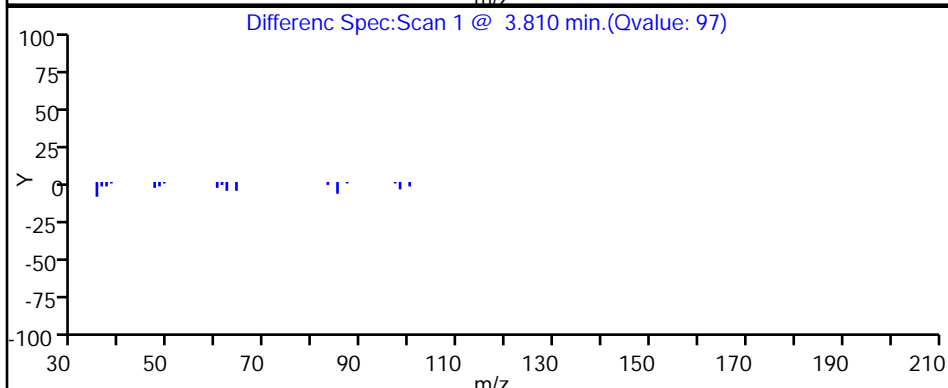
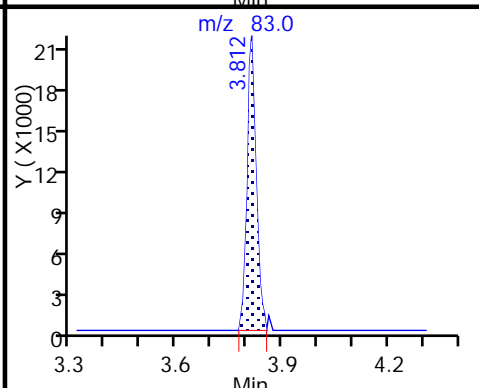
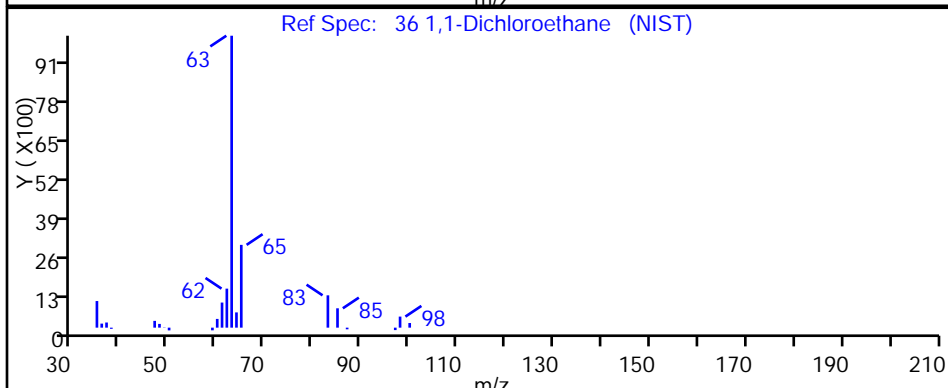
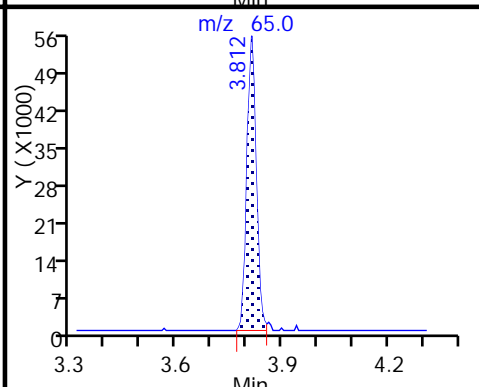
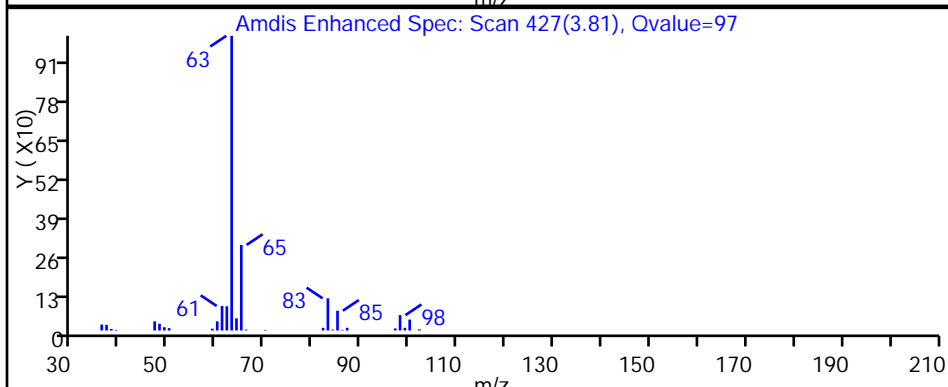
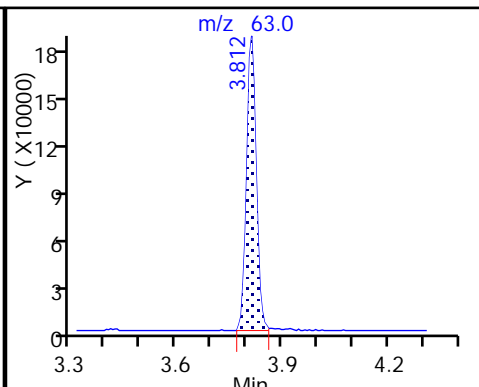
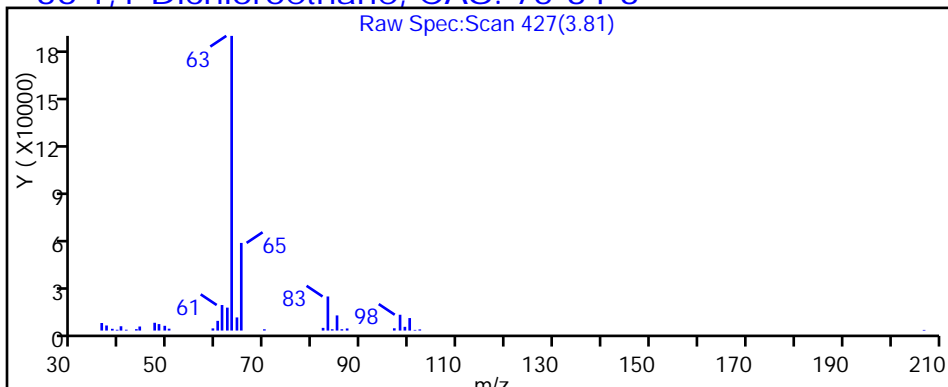
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

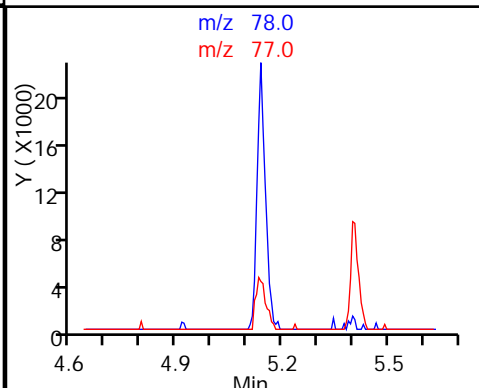
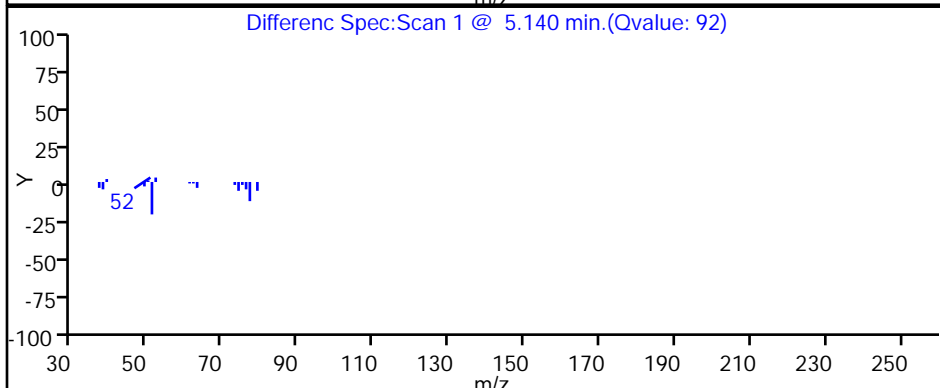
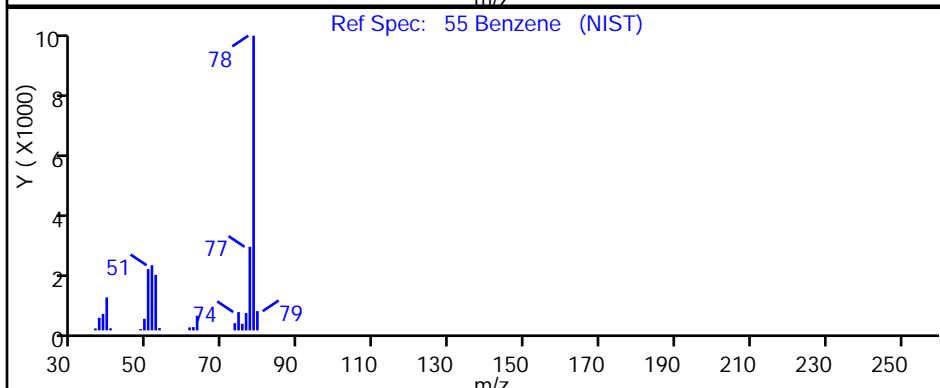
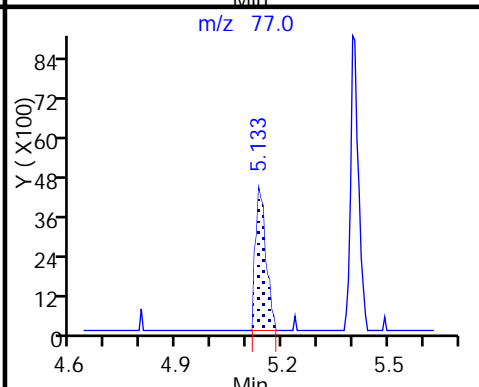
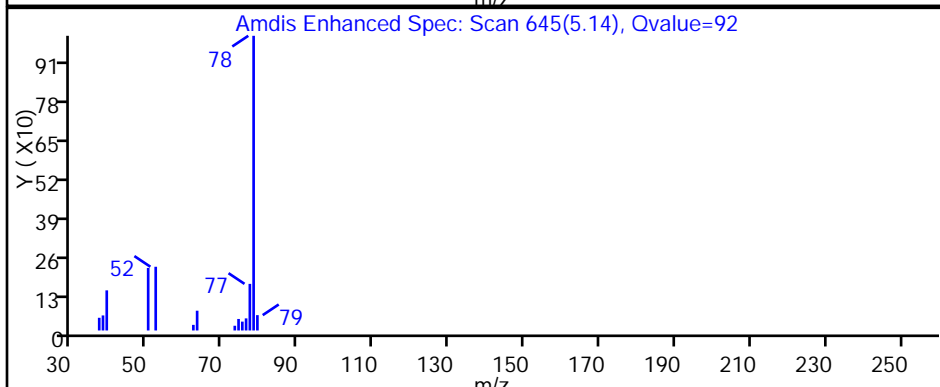
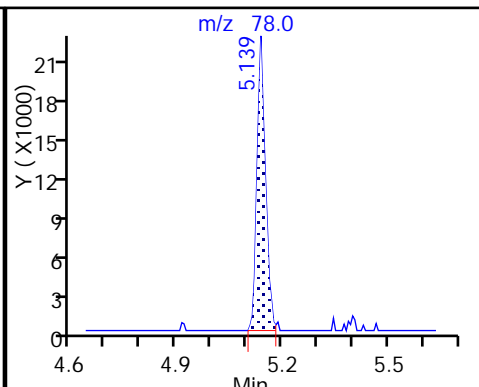
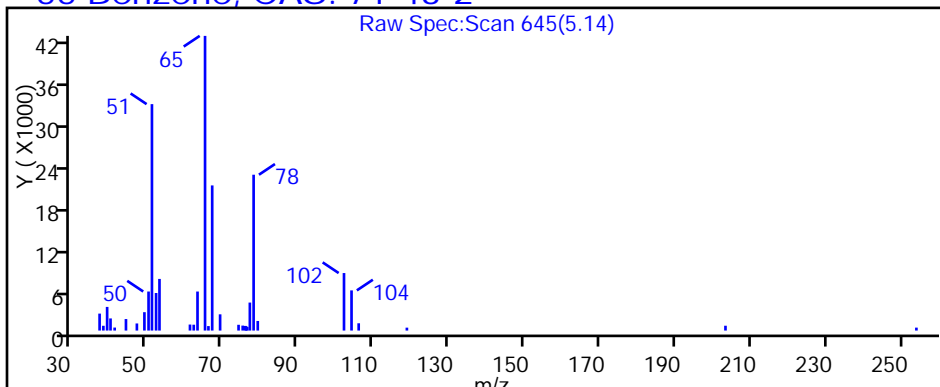
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

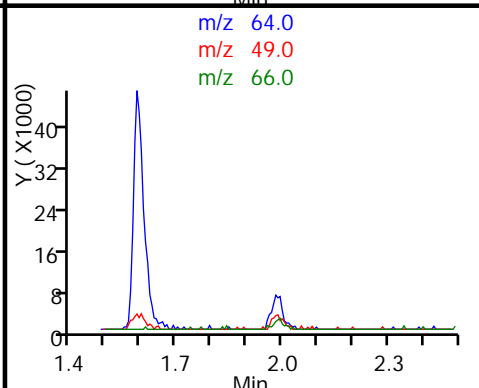
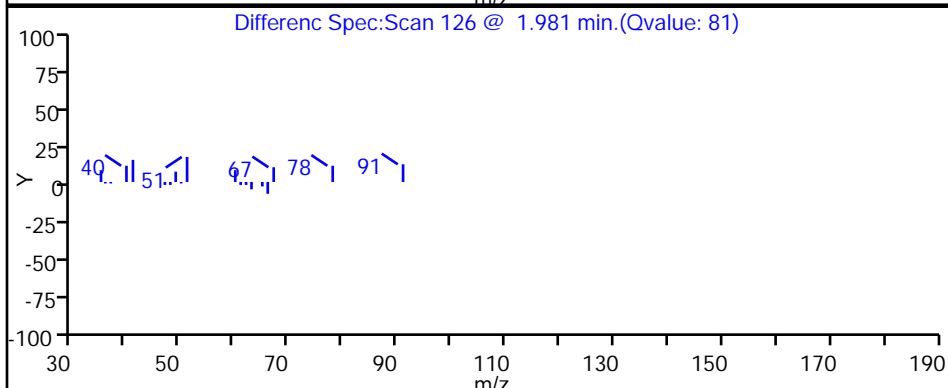
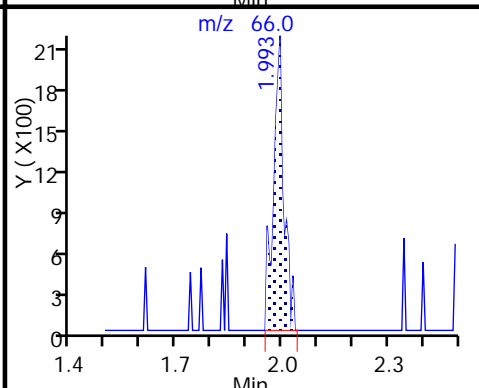
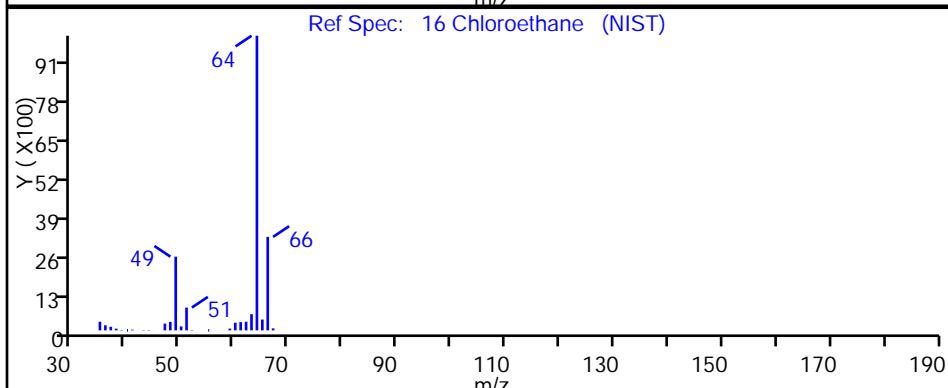
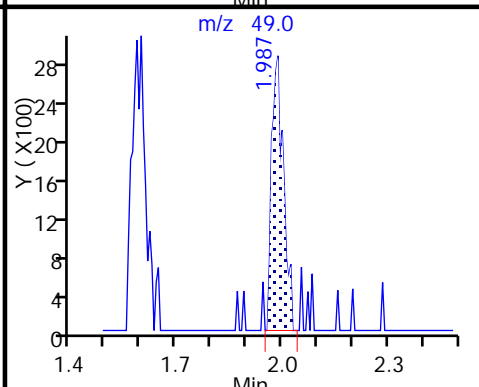
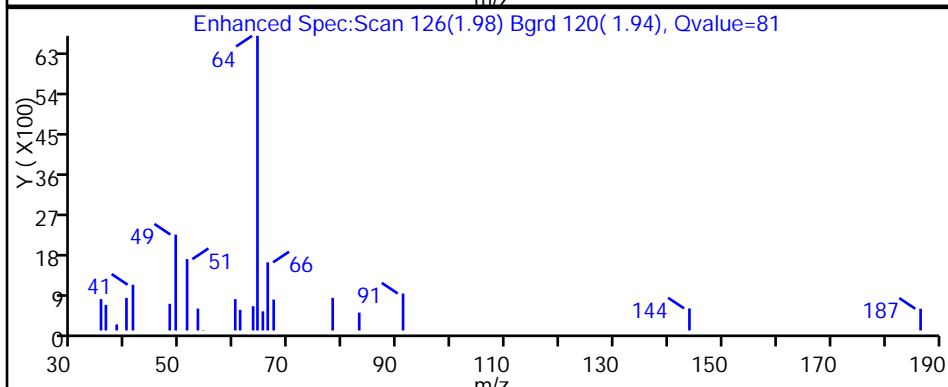
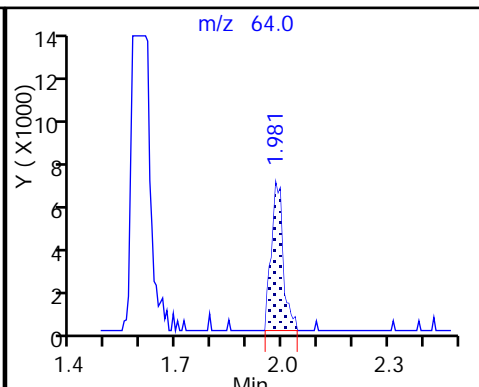
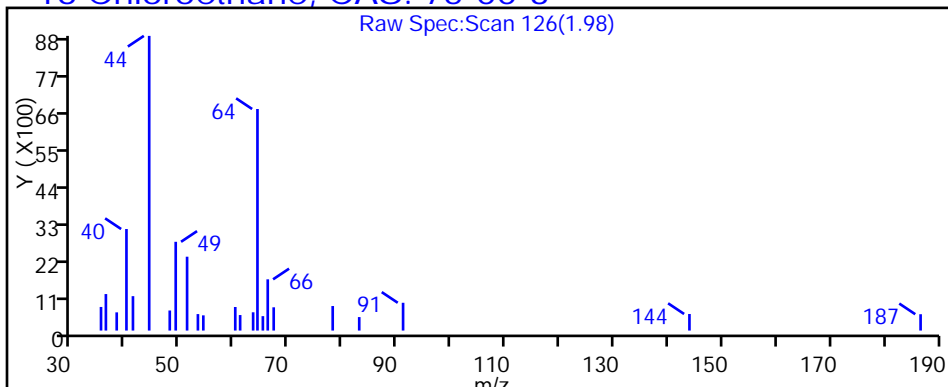
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

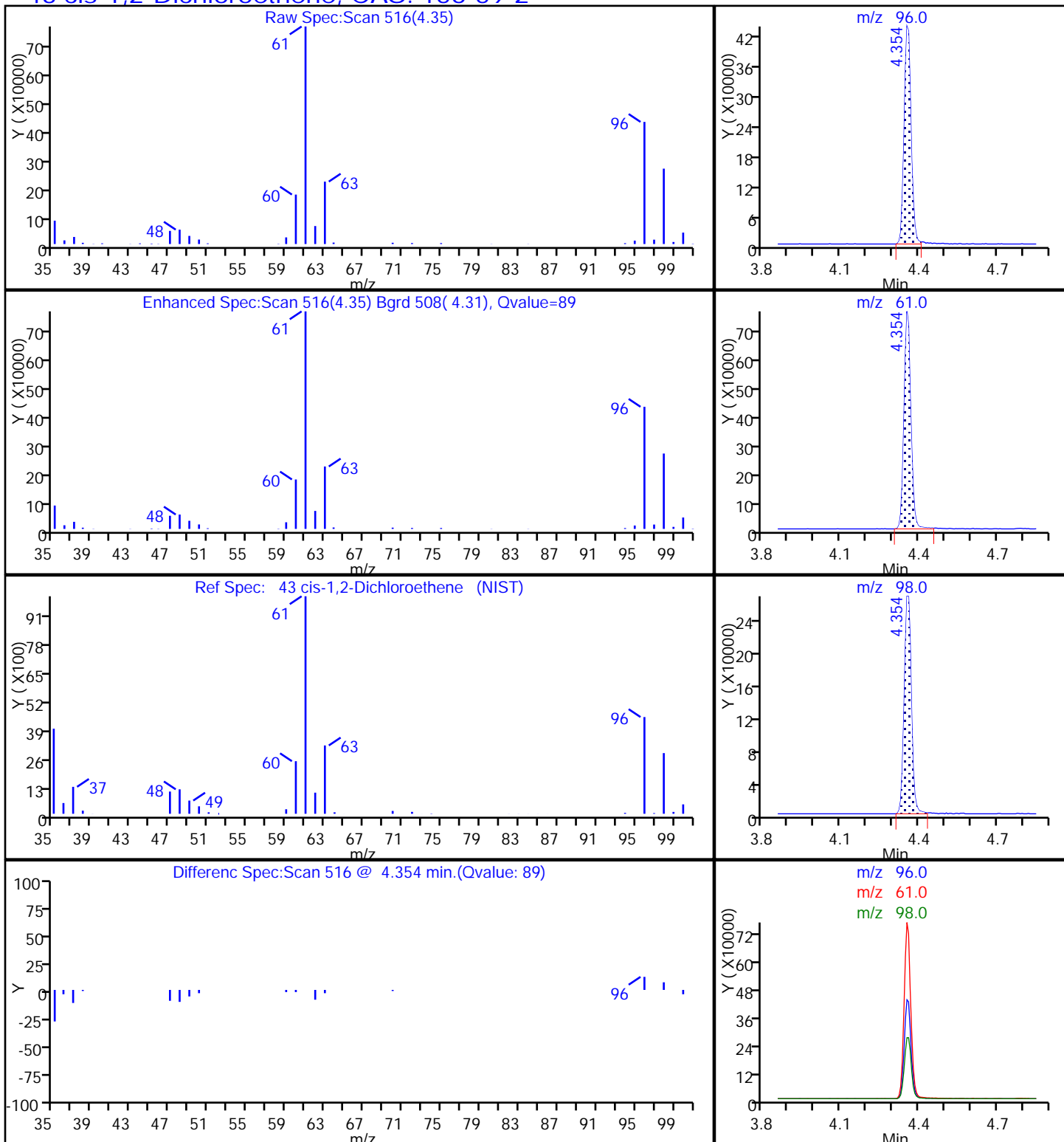
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

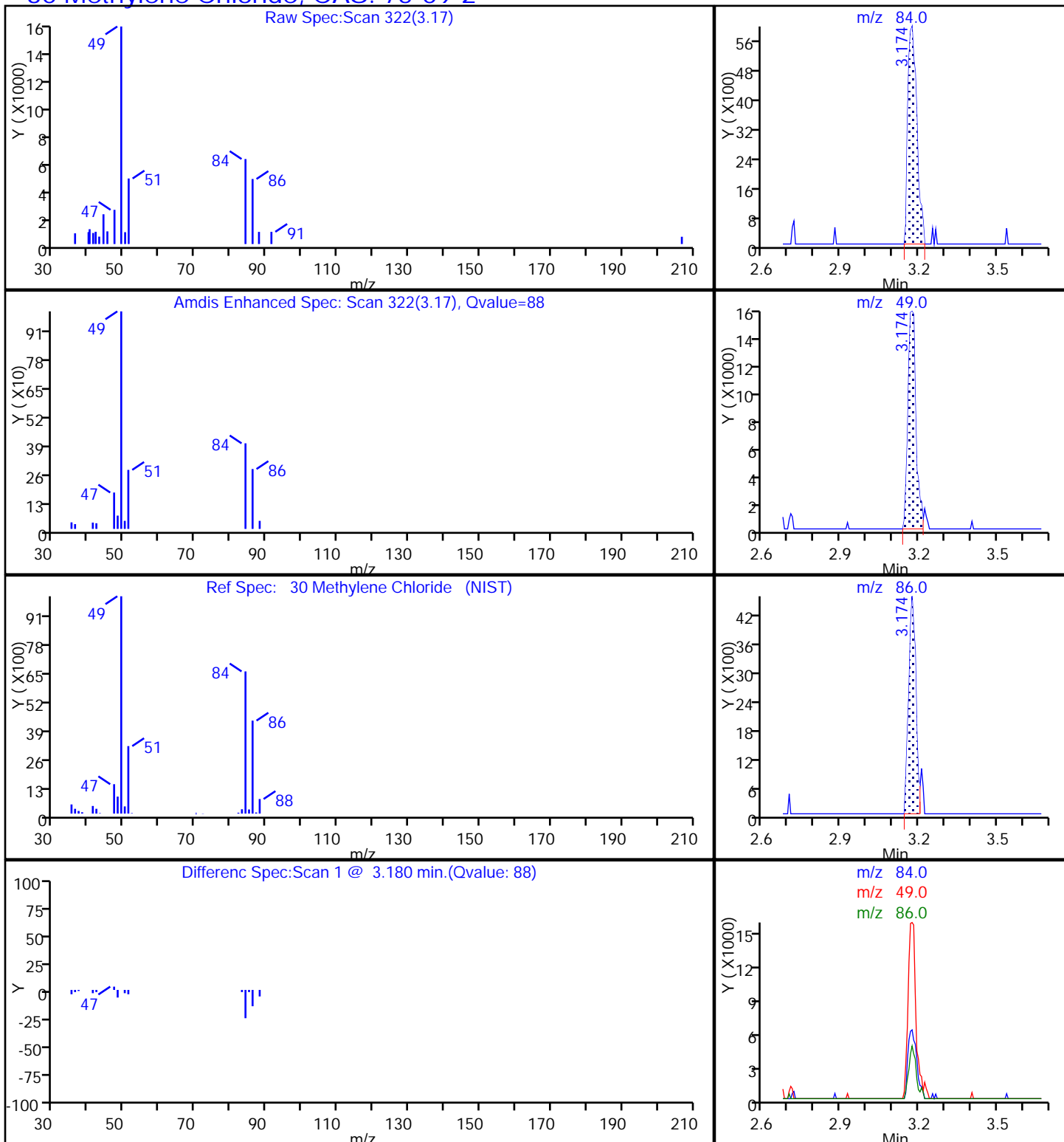
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

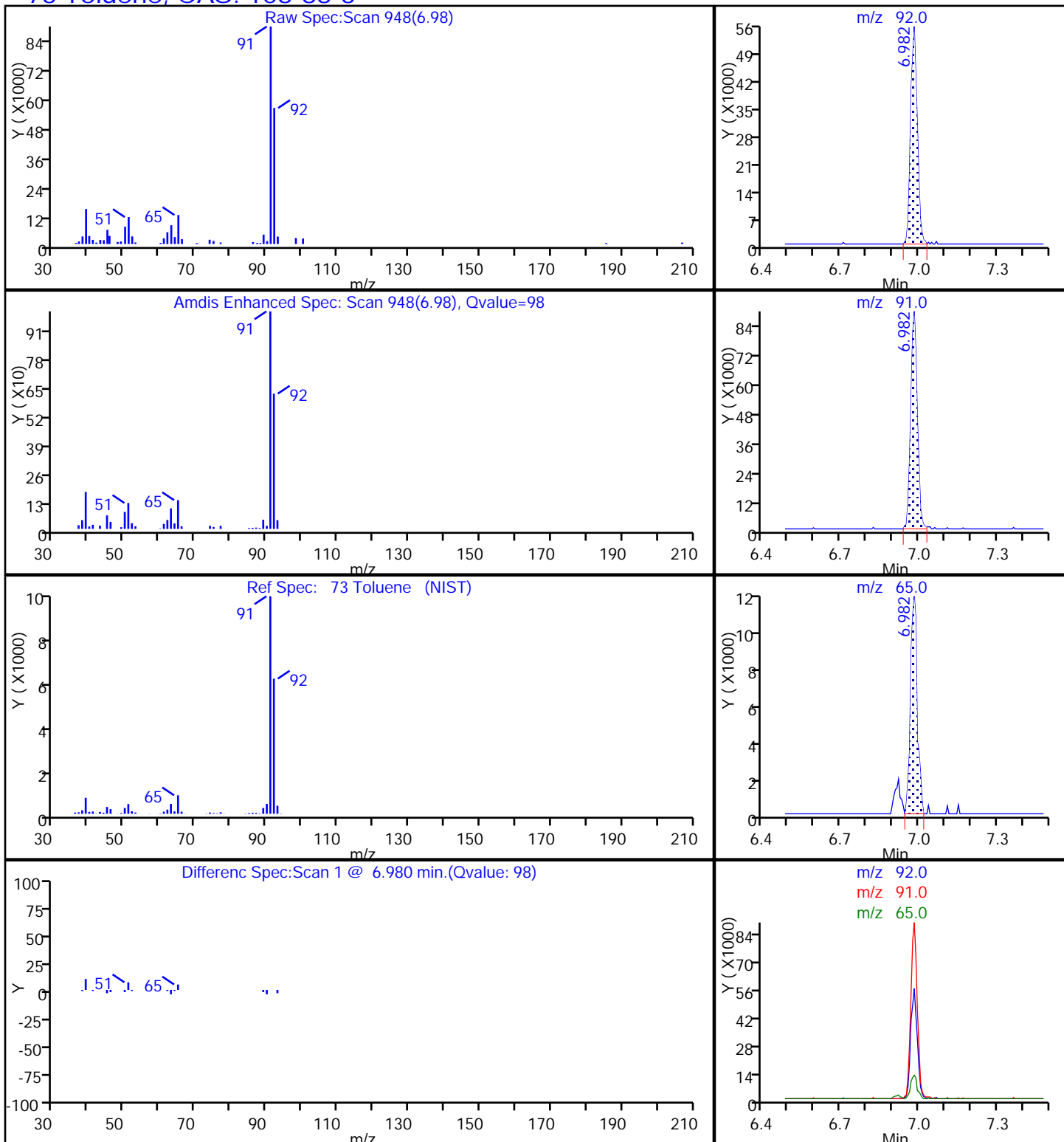
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

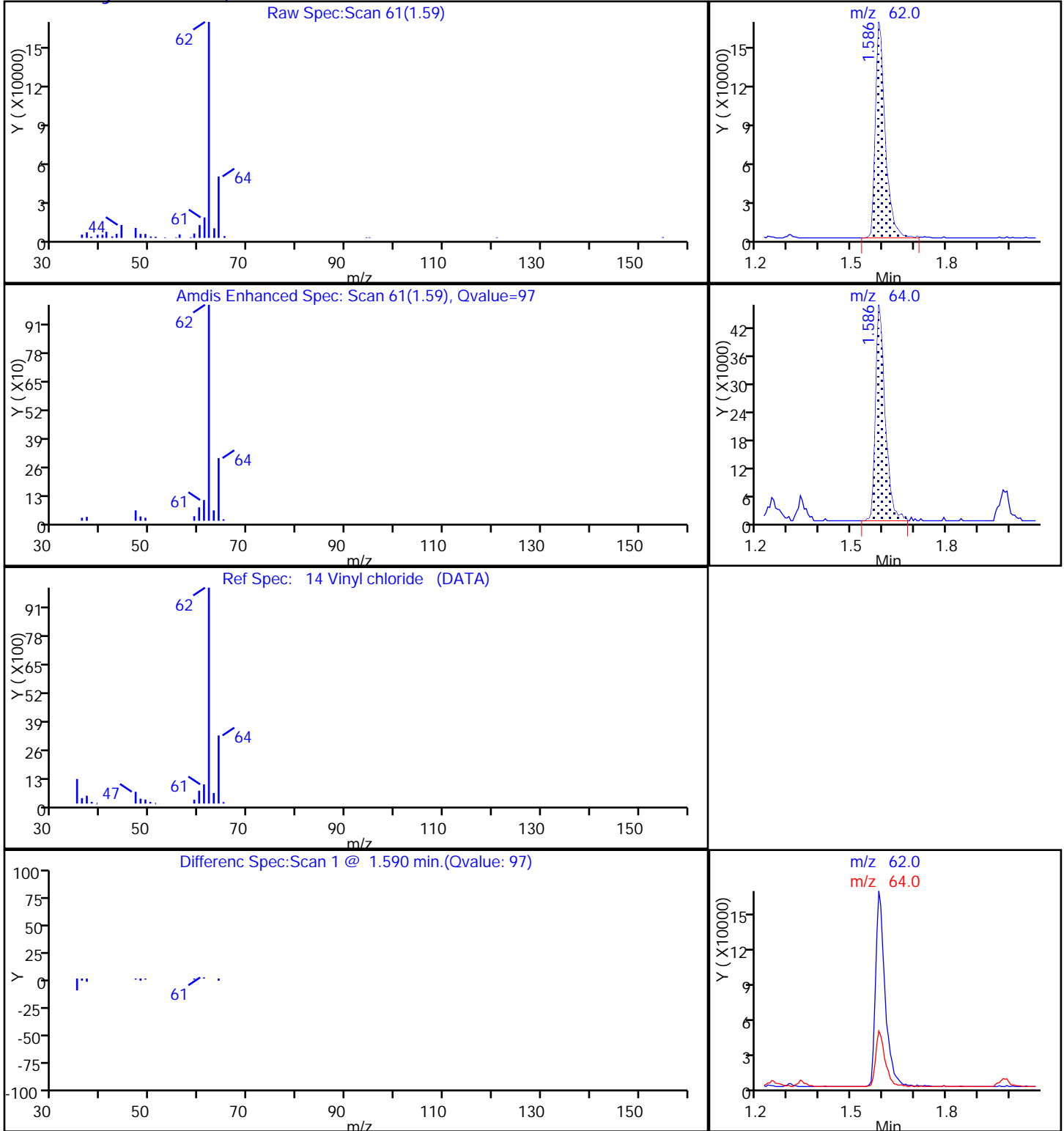
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

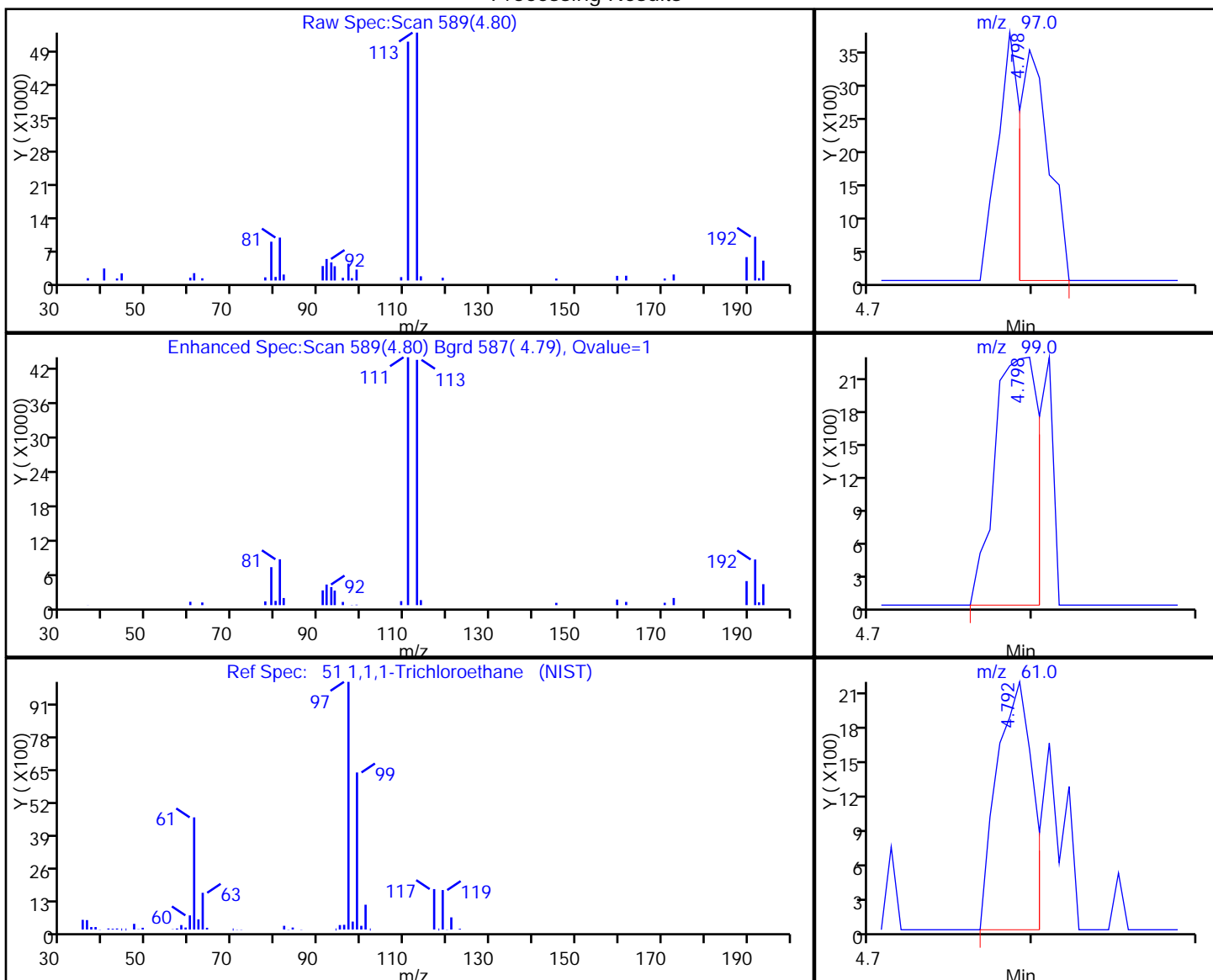


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D
 Injection Date: 28-Feb-2018 11:37:30 Instrument ID: HP5973N
 Lims ID: 480-131737-H-4 Lab Sample ID: 480-131737-4
 Client ID: ML-71
 Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
4.80	97.00	4479	0.328691
4.80	99.00	4290	
4.79	61.00	3238	

Reviewer: farrellr, 01-Mar-2018 09:35:42

Audit Action: Marked Compound Undetected

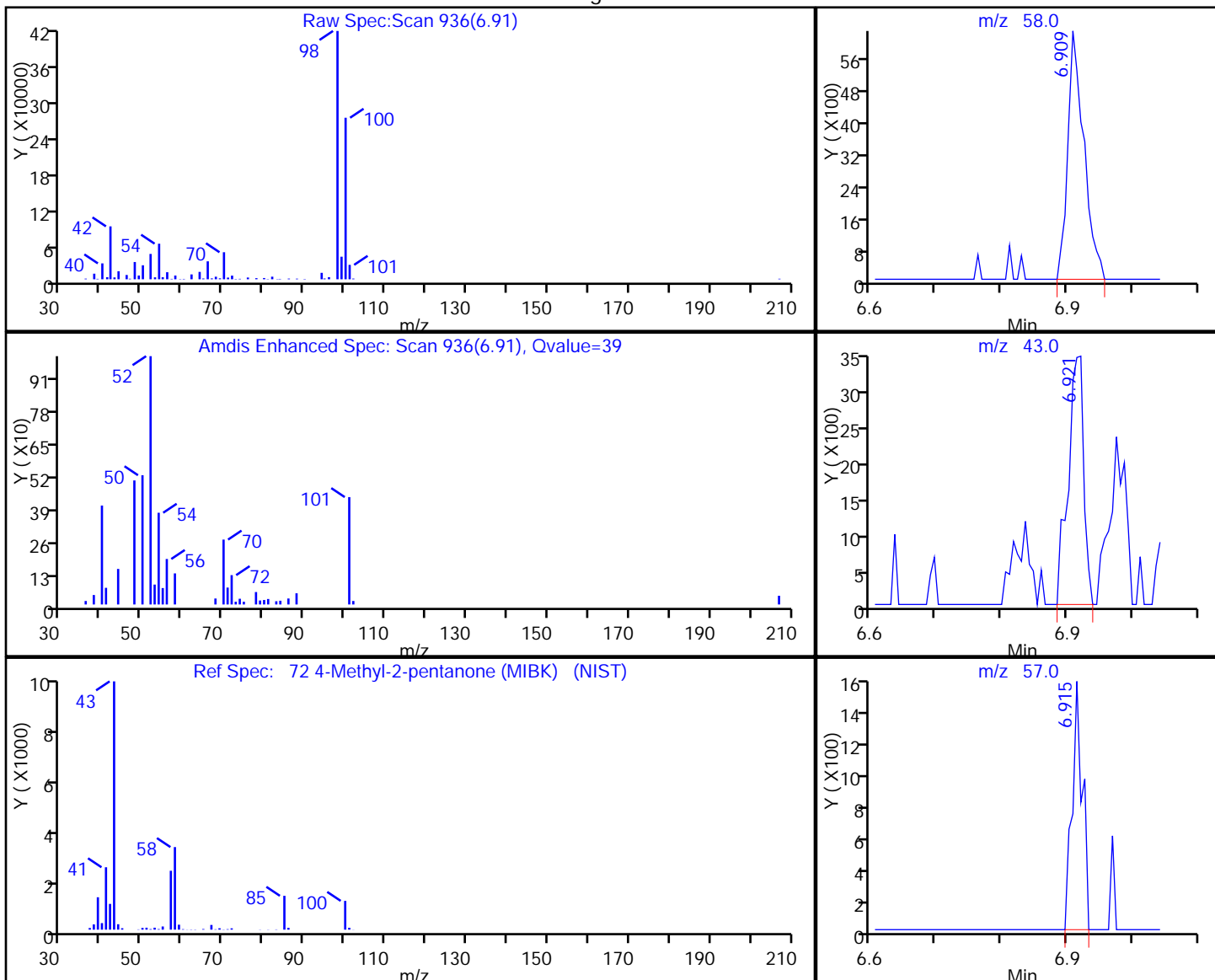
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D
 Injection Date: 28-Feb-2018 11:37:30 Instrument ID: HP5973N
 Lims ID: 480-131737-H-4 Lab Sample ID: 480-131737-4
 Client ID: ML-71
 Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.91	58.00	10717	1.522902
6.92	43.00	5731	
6.92	57.00	1690	

Reviewer: farrellr, 01-Mar-2018 09:35:42

Audit Action: Marked Compound Undetected

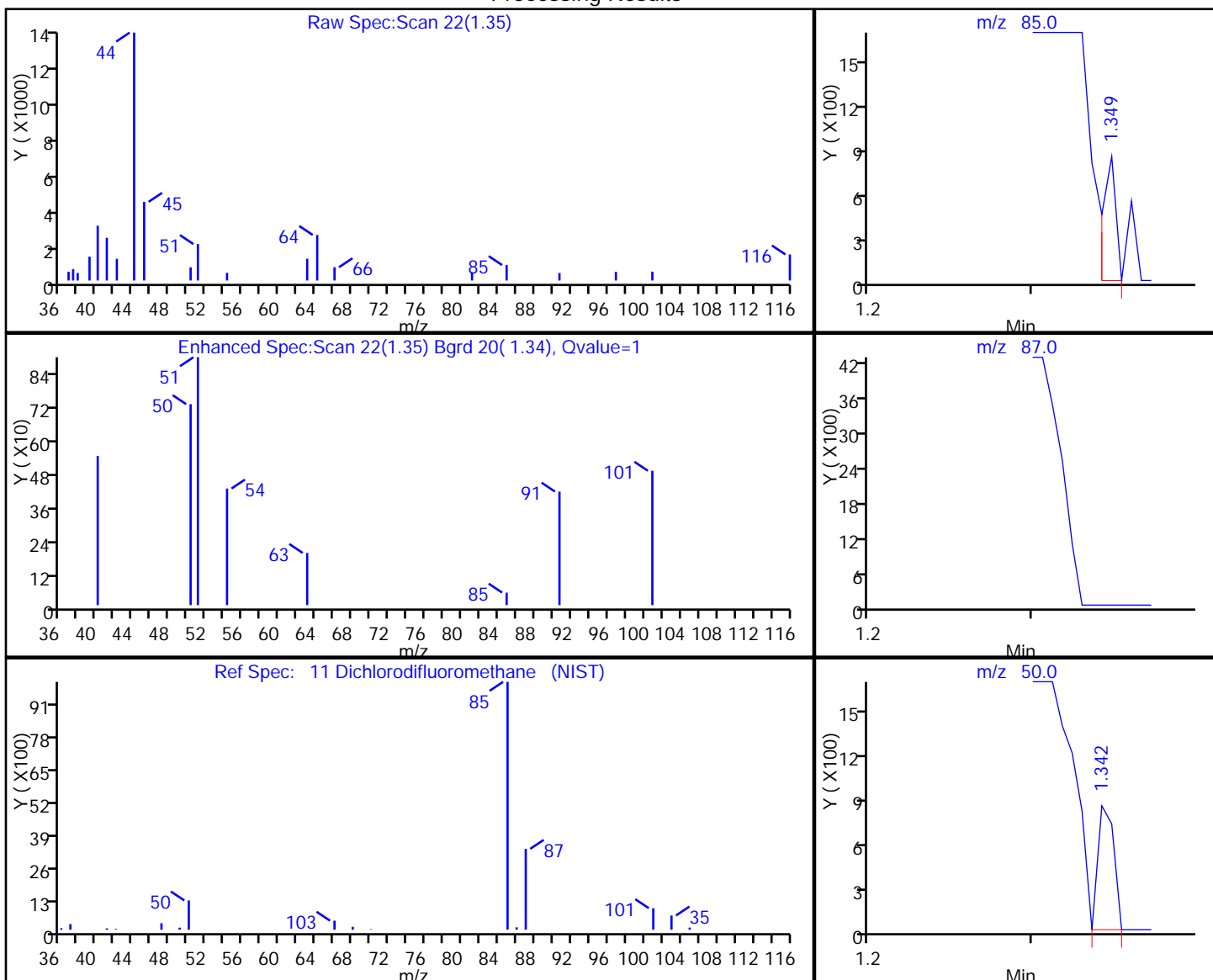
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D
 Injection Date: 28-Feb-2018 11:37:30 Instrument ID: HP5973N
 Lims ID: 480-131737-H-4 Lab Sample ID: 480-131737-4
 Client ID: ML-71
 Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 40.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.35	85.00	474	0.050759
1.34	50.00	574	
1.34	87.00	0	

Reviewer: farrellr, 01-Mar-2018 09:35:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7373.D

Injection Date: 28-Feb-2018 11:37:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-4

Lab Sample ID: 480-131737-4

Client ID: ML-71

Operator ID: RF

ALS Bottle#: 8 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

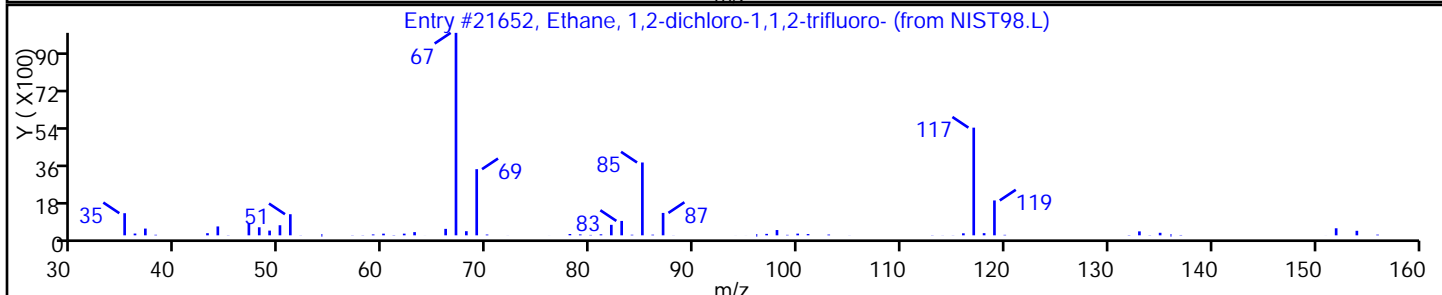
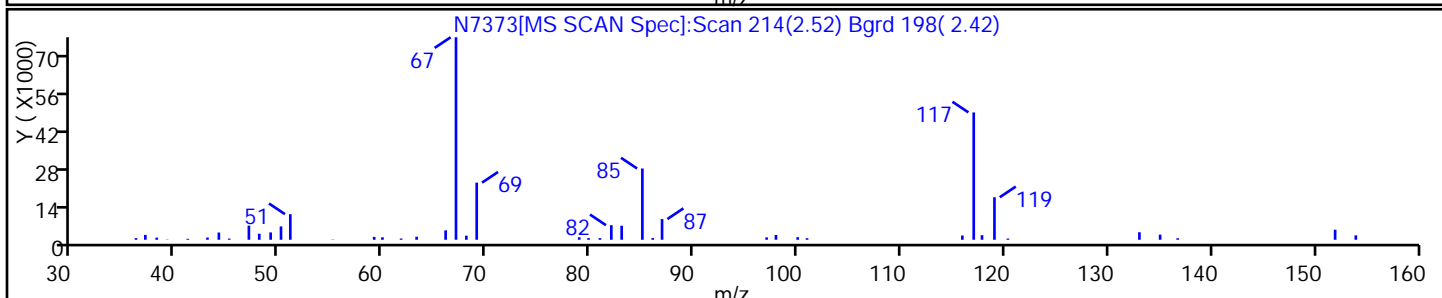
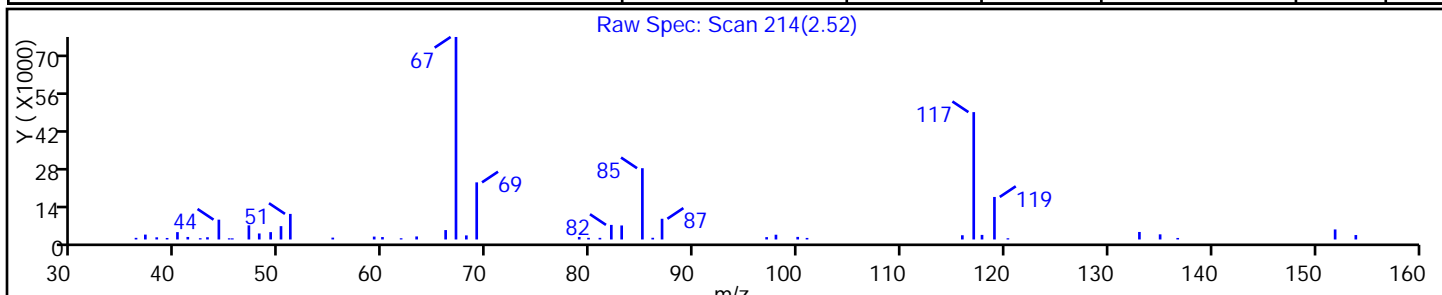
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIST98.L	21652	C2HCl2F3	152	94



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: S7868.D
 Analysis Method: 8260C Date Collected: 02/21/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	120		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24		10	3.1
75-34-3	1,1-Dichloroethane	420		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	61	J	100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	25		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	100		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	20		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: S7868.D
 Analysis Method: 8260C Date Collected: 02/21/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	5.7	J	10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	17		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	9.8	J	10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	19		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: S7868.D
 Analysis Method: 8260C Date Collected: 02/21/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D
 Lims ID: 480-131737-F-5
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 25-Feb-2018 16:08:30 ALS Bottle#: 12 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-5
 Misc. Info.: 480-0069476-020
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 13:17:04 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: moffata Date: 26-Feb-2018 13:17:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.412	5.412	0.000	99	123256	25.0	
* 2 Chlorobenzene-d5	82	8.405	8.406	-0.001	82	261122	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	93	268162	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.828	0.000	58	157604	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.132	5.139	-0.007	0	96989	25.6	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	92	642911	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	96	213997	23.6	
10 Dichlorodifluoromethane	85		1.245				ND	
12 Chloromethane	50		1.416				ND	
13 Vinyl chloride	62	1.495	1.501	-0.007	19	13697	1.92	
14 Bromomethane	94		1.817				ND	
15 Chloroethane	64	1.896	1.896	0.000	95	48242	10.5	
17 Trichlorofluoromethane	101		2.127				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.626	2.626	0.000	47	11661	2.37	
22 1,1-Dichloroethene	96		2.638				ND	
23 Acetone	43		2.766				ND	
26 Carbon disulfide	76		2.839				ND	
27 Methyl acetate	43		3.064				ND	
30 Methylene Chloride	84	3.161	3.155	0.006	3	2432	0.3589	
32 Methyl tert-butyl ether	73	3.380	3.381	-0.001	62	11379	0.5691	
34 trans-1,2-Dichloroethene	96		3.387				ND	U
39 1,1-Dichloroethane	63	3.806	3.806	0.000	84	412104	41.7	
45 cis-1,2-Dichloroethene	96	4.366	4.360	0.006	64	14265	1.98	
43 2-Butanone (MEK)	43	4.421	4.403	0.018	90	18003	6.06	
50 Chloroform	83		4.670				ND	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	93	111976	12.1	
52 Cyclohexane	56		4.804				ND	
55 Carbon tetrachloride	117		4.932				ND	
57 Benzene	78	5.145	5.145	0.000	65	63907	2.50	
58 1,2-Dichloroethane	62		5.206				ND	
62 Trichloroethene	95	5.759	5.759	0.000	62	6553	0.9750	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.887				ND	
65 1,2-Dichloropropane	63		5.990				ND	
68 Dichlorobromomethane	83		6.282				ND	
72 cis-1,3-Dichloropropene	75		6.702				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.842				ND	
74 Toluene	92	6.988	6.994	-0.006	78	29705	1.72	
77 trans-1,3-Dichloropropene	75		7.268				ND	
79 1,1,2-Trichloroethane	83		7.457				ND	
81 Tetrachloroethene	166		7.523				ND	
80 2-Hexanone	43		7.682				ND	
83 Chlorodibromomethane	129		7.852				ND	
84 Ethylene Dibromide	107		7.955				ND	
87 Chlorobenzene	112		8.436				ND	
88 Ethylbenzene	91	8.533	8.533	0.000	1	4376	0.1376	
90 m-Xylene & p-Xylene	106	8.649	8.655	-0.006	0	6811	0.5176	
91 o-Xylene	106	9.081	9.081	0.000	26	3365	0.2732	
92 Styrene	104		9.105				ND	
95 Bromoform	173		9.349				ND	
94 Isopropylbenzene	105		9.464				ND	
97 1,1,2,2-Tetrachloroethane	83		9.853				ND	
111 1,3-Dichlorobenzene	146		10.730				ND	
113 1,4-Dichlorobenzene	146		10.815				ND	
116 1,2-Dichlorobenzene	146		11.168				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.891				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 124 Xylenes, Total	1				0		0.7908	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00282

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00253

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Worklist Smp#: 20

Client ID: ML-7D

Purge Vol: 5.000 mL

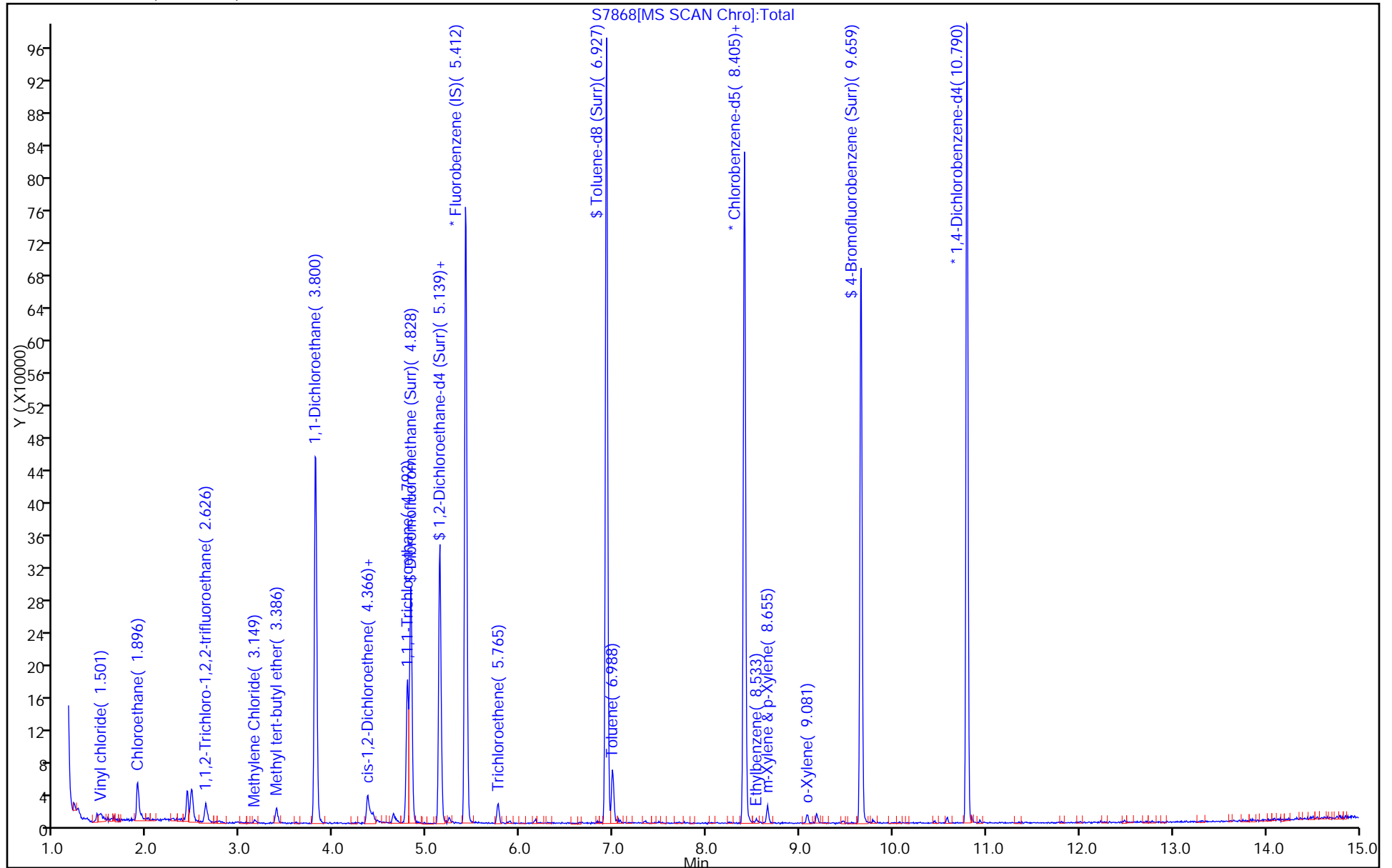
Dil. Factor: 10.0000

ALS Bottle#: 12

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

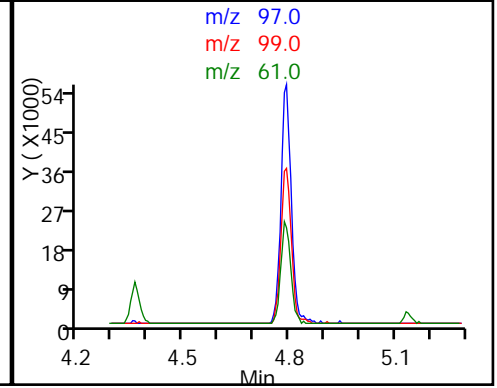
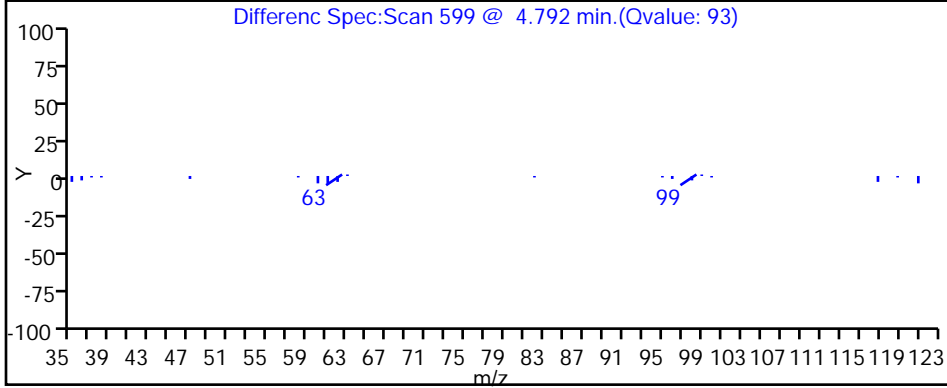
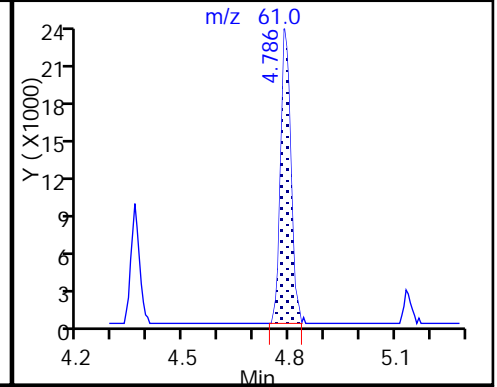
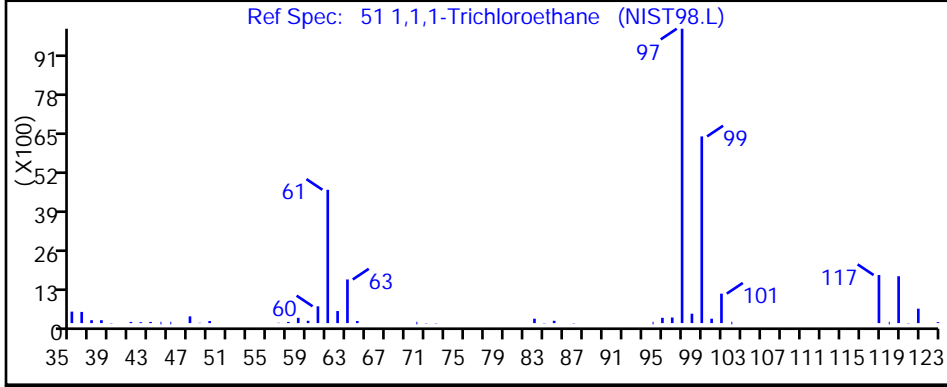
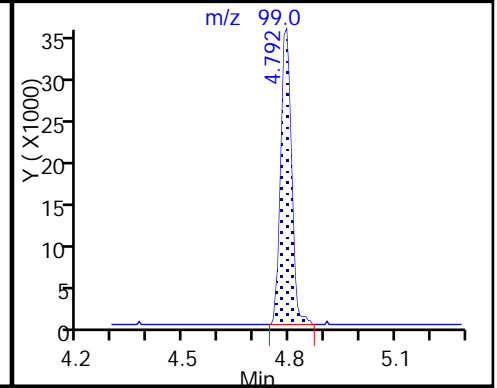
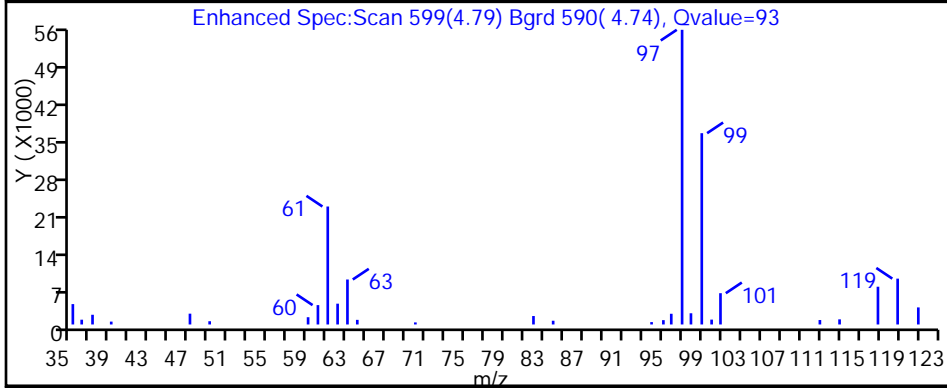
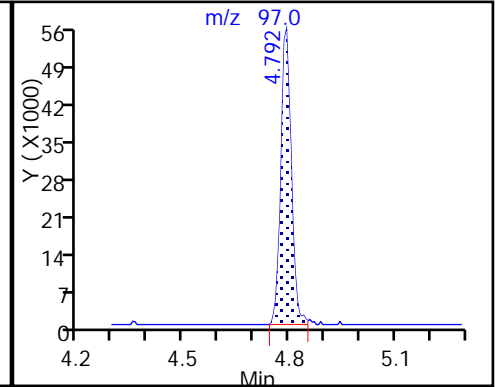
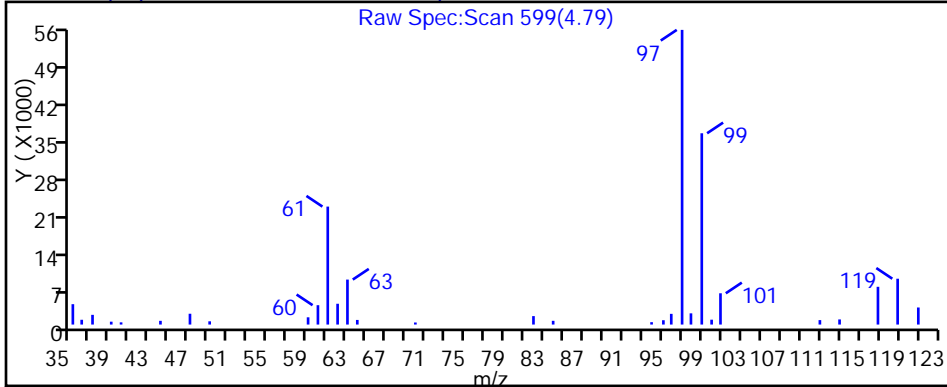
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

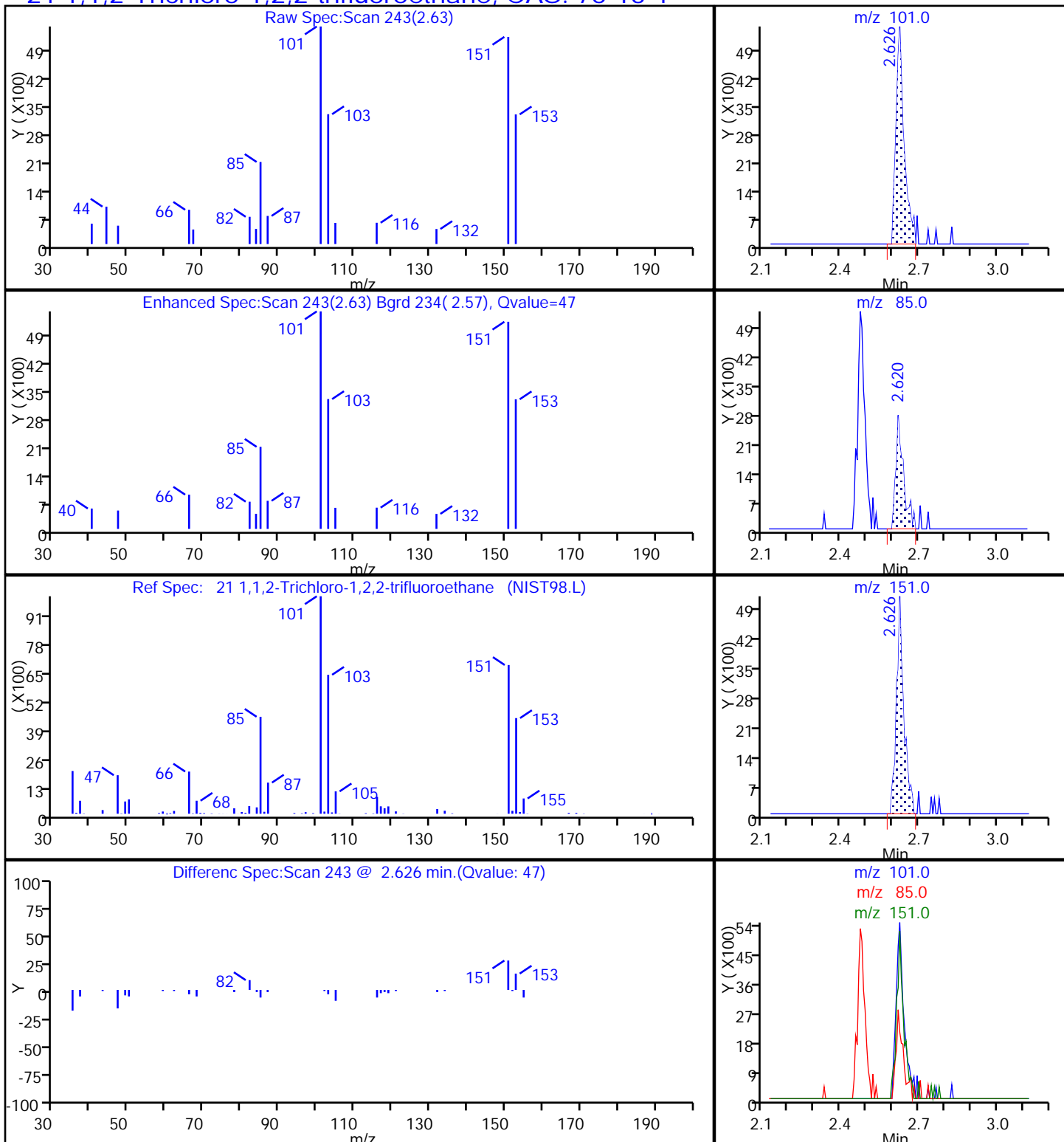
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

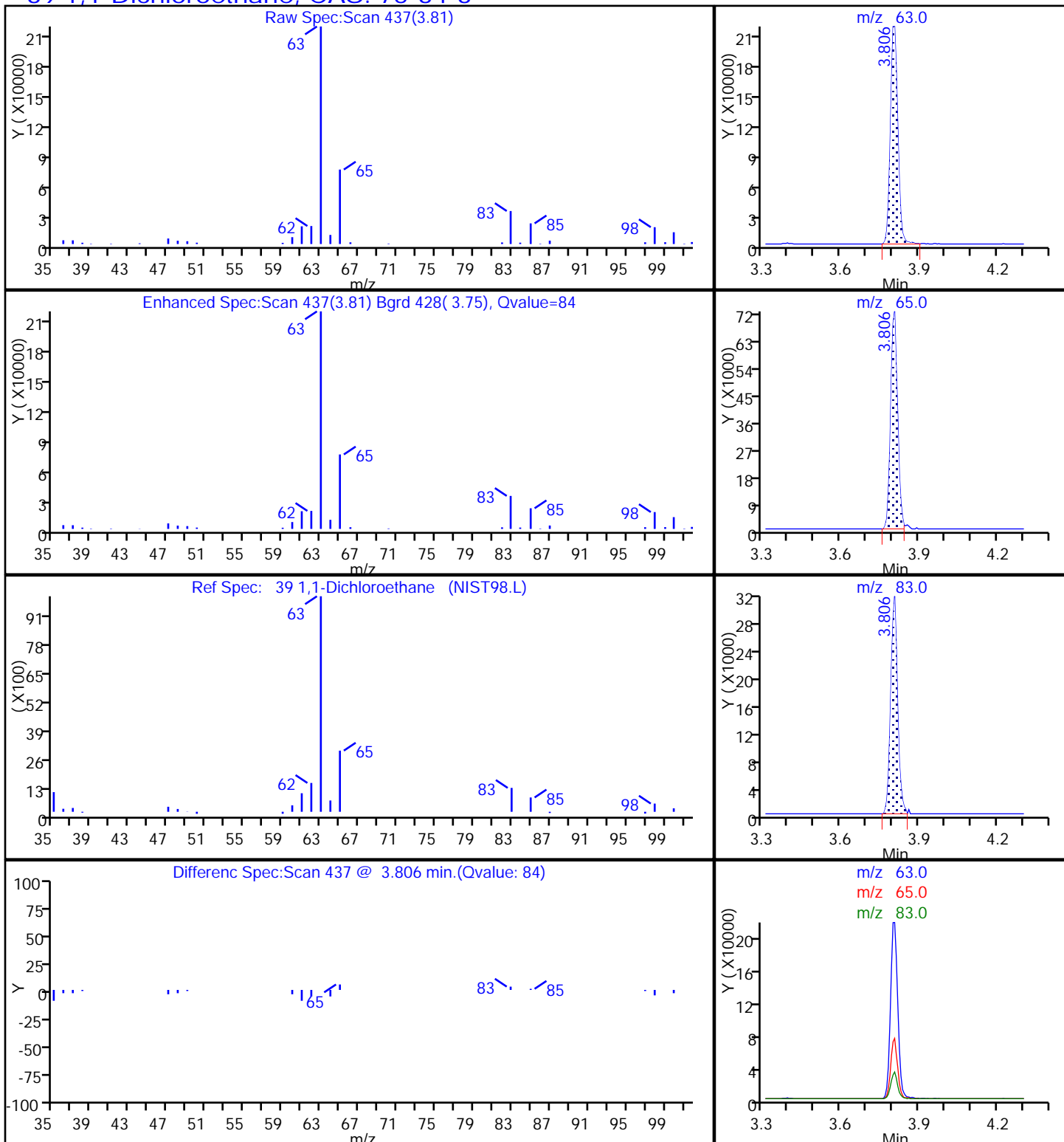
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

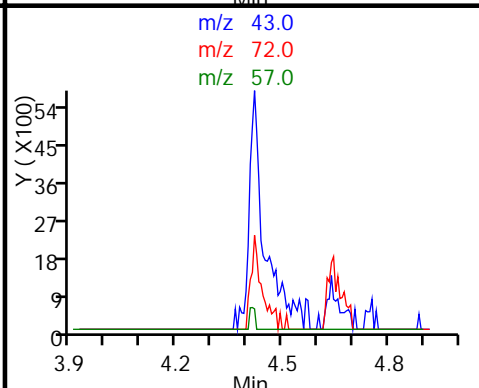
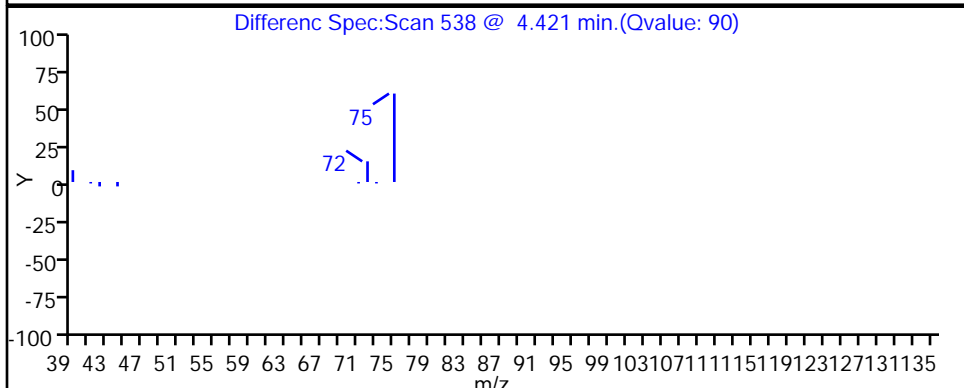
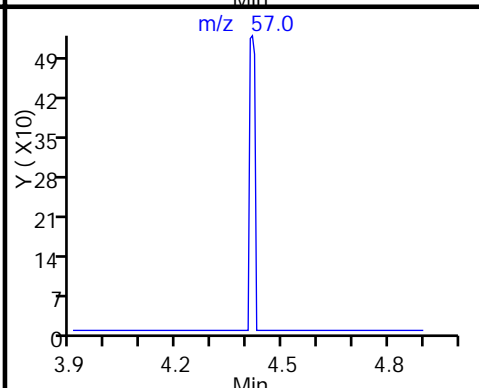
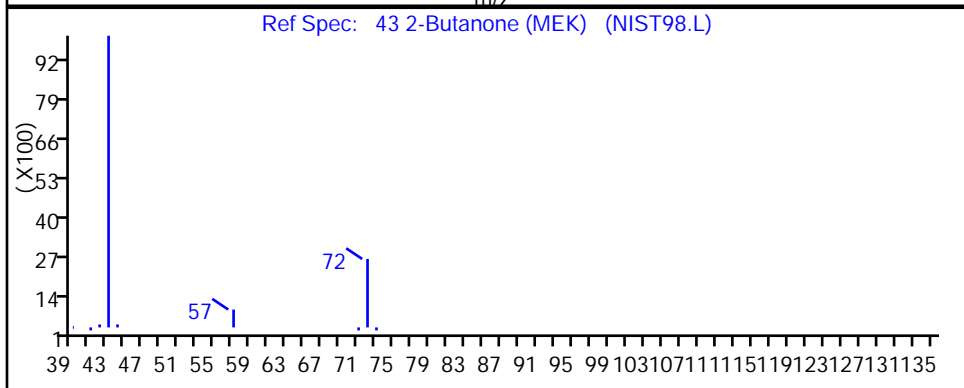
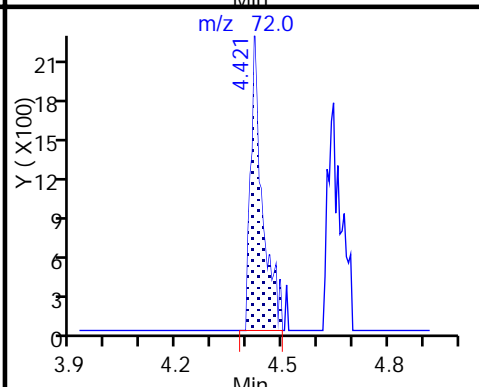
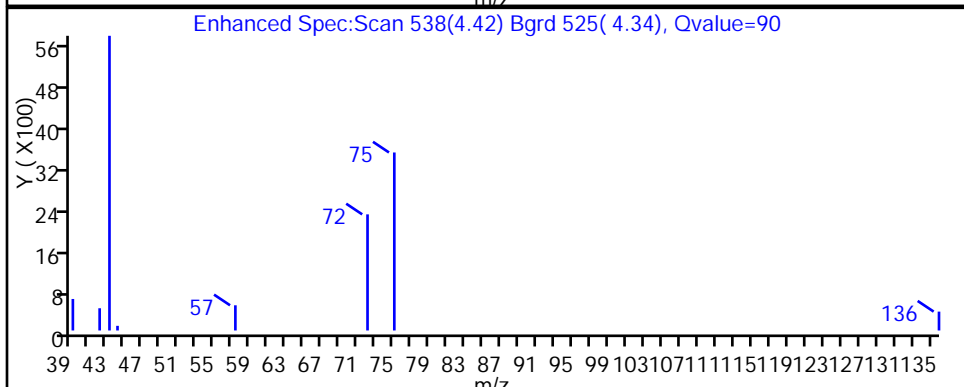
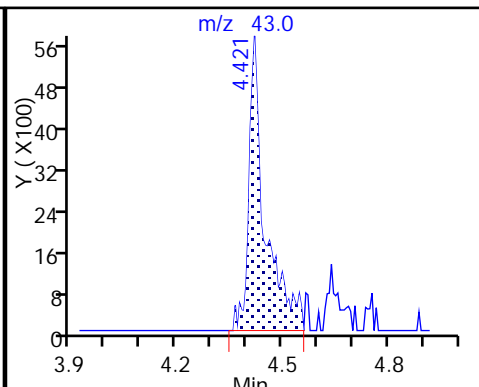
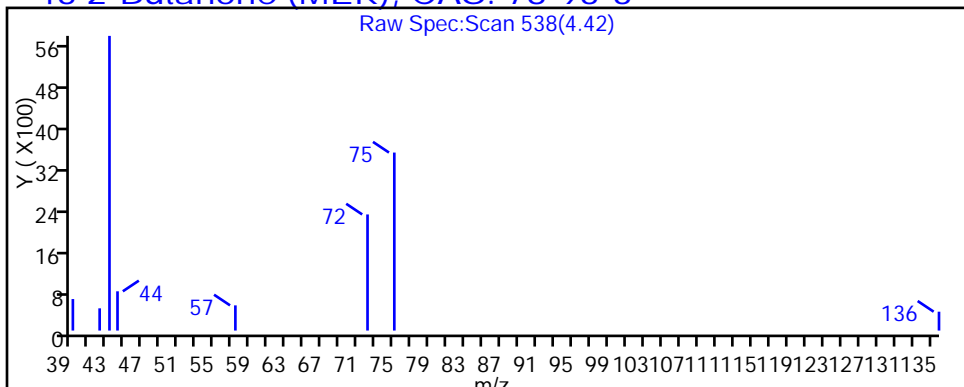
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

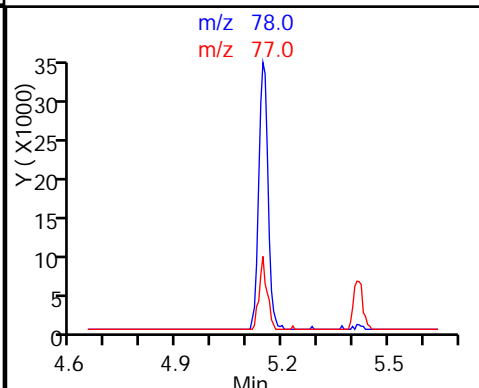
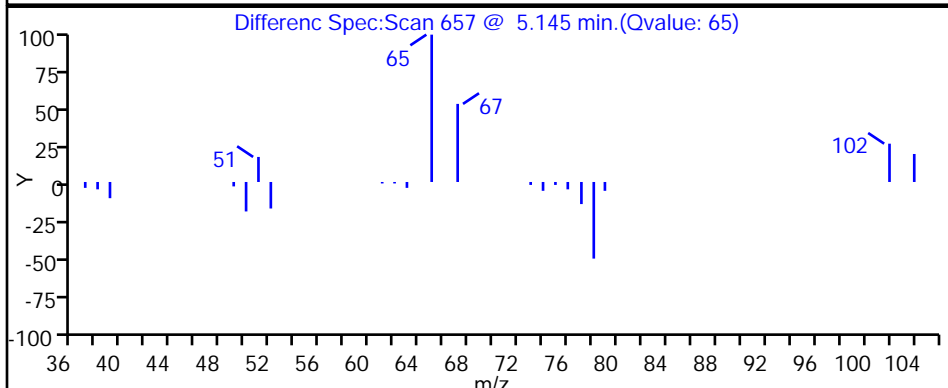
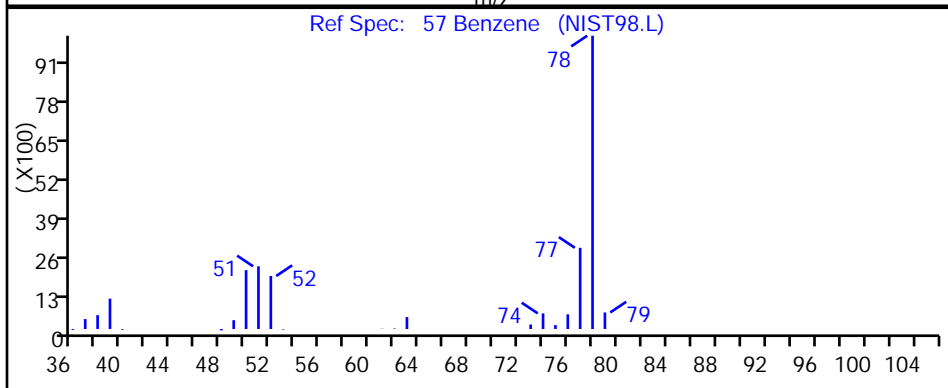
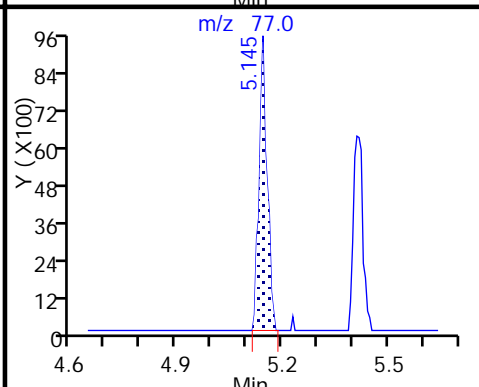
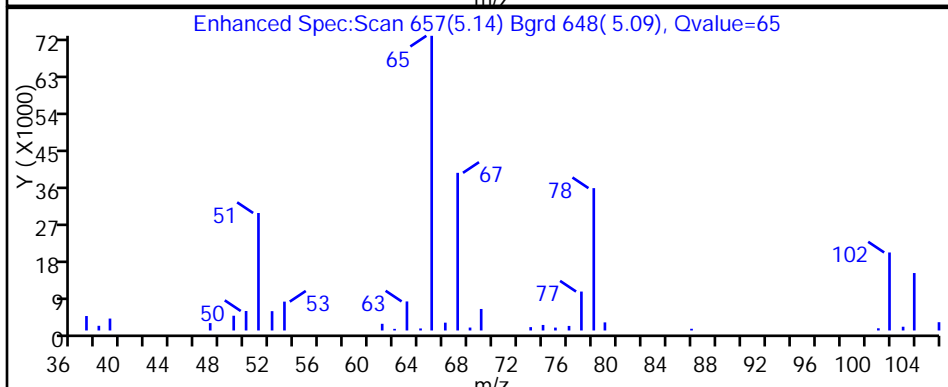
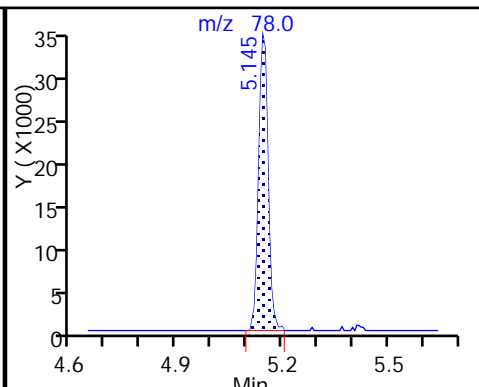
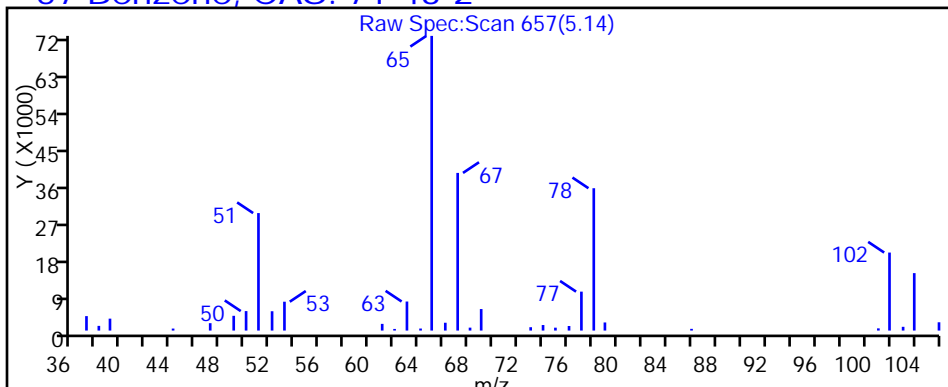
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

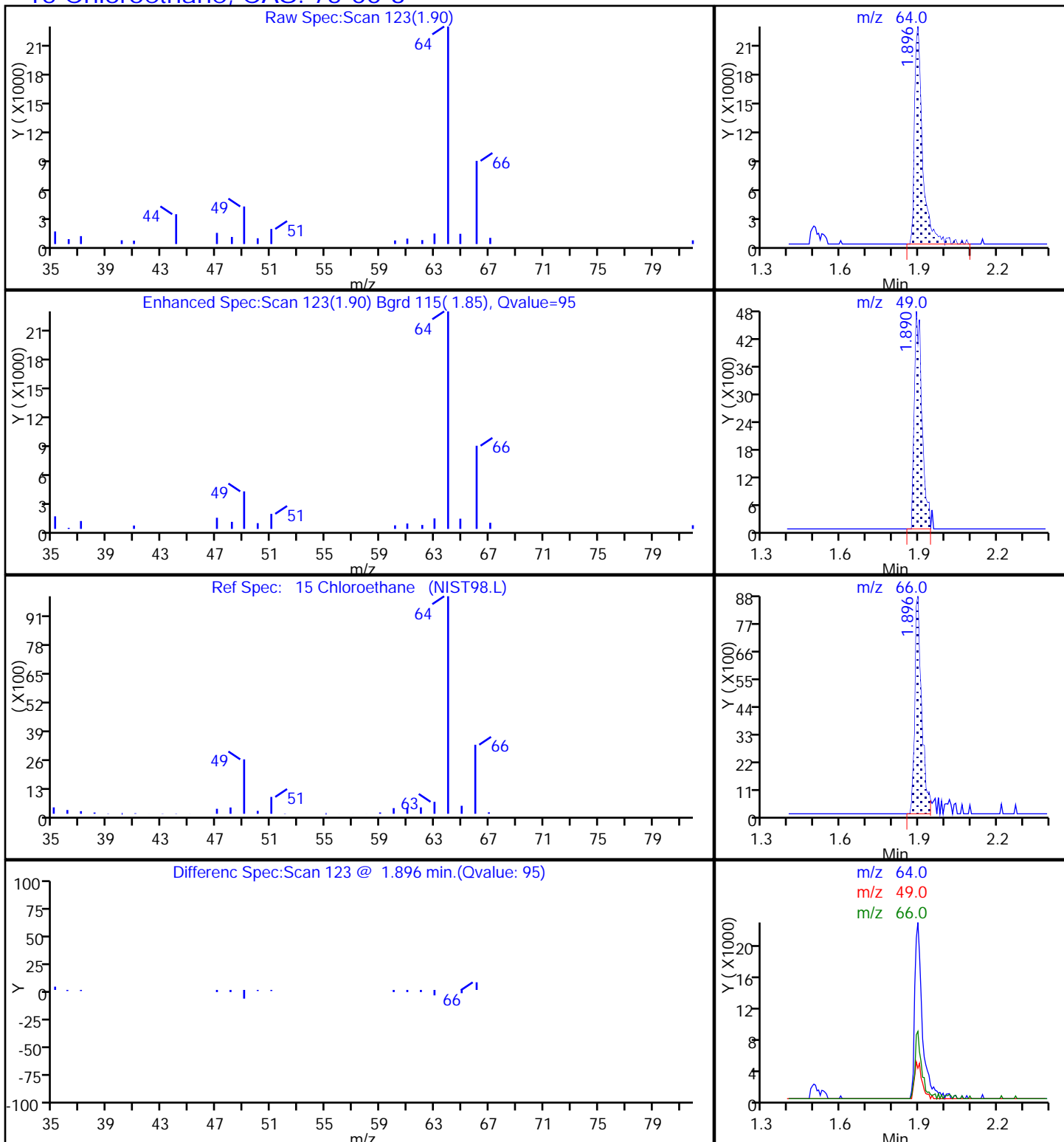
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

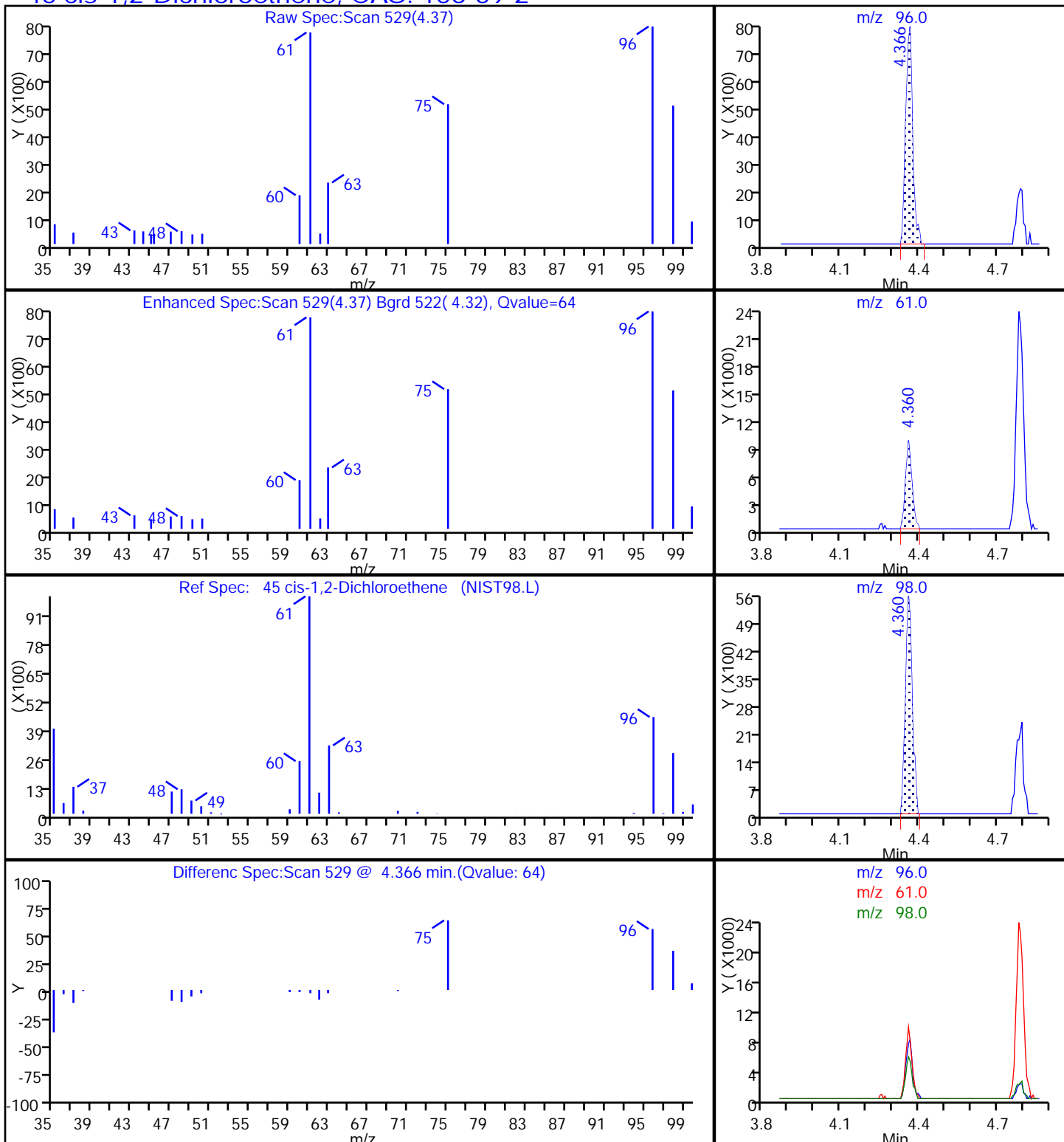
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

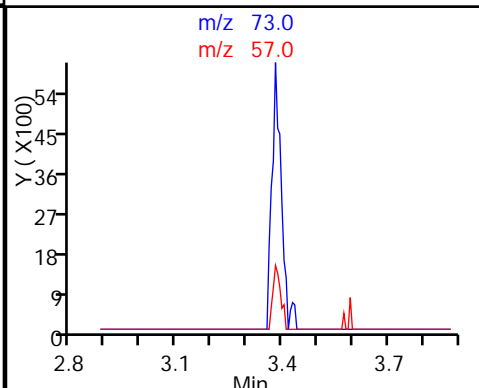
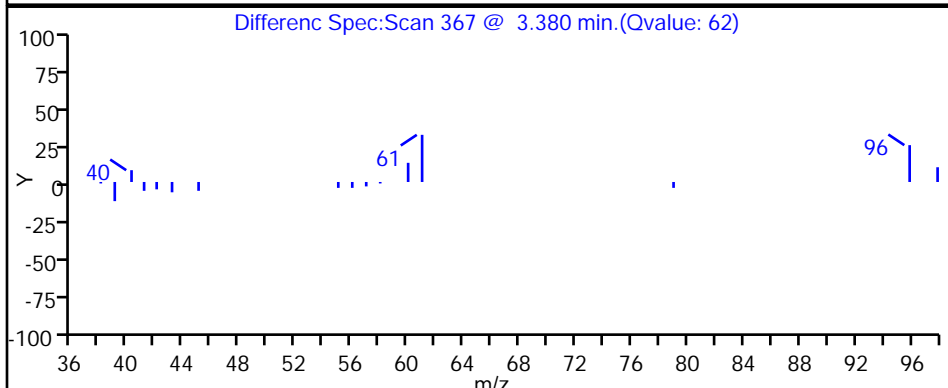
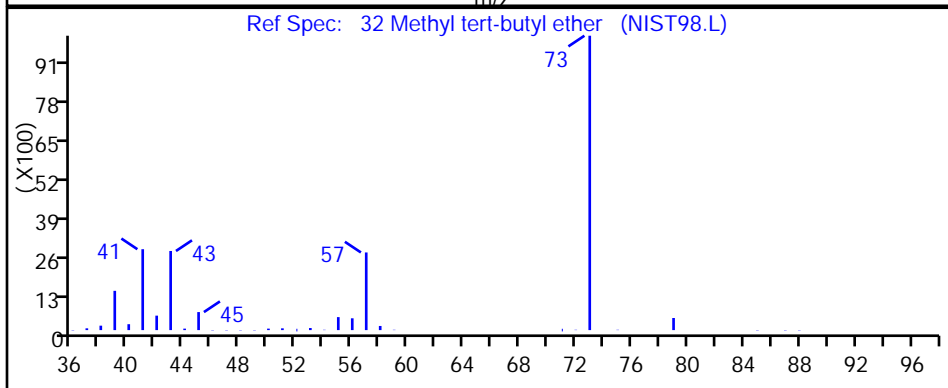
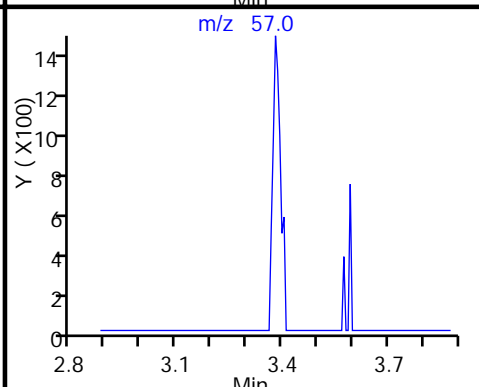
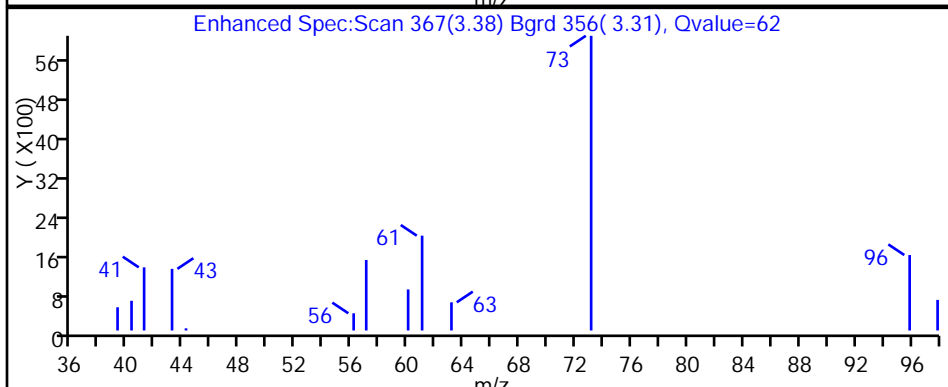
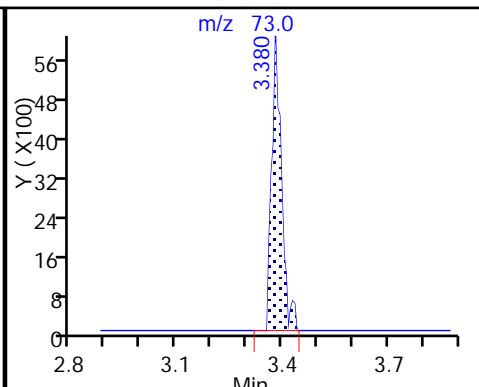
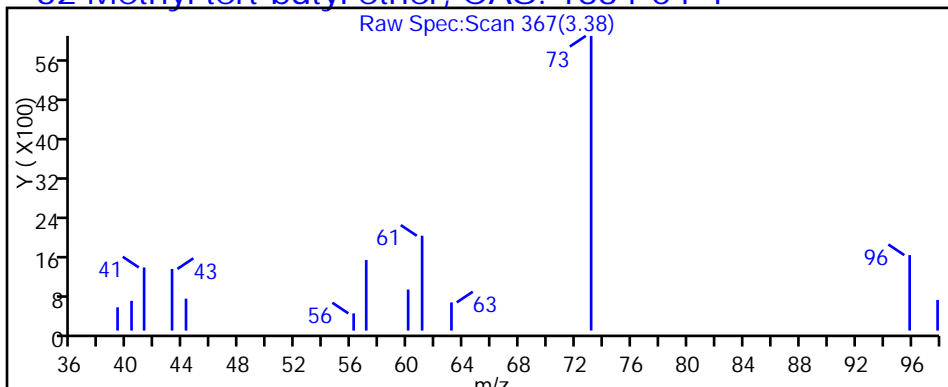
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

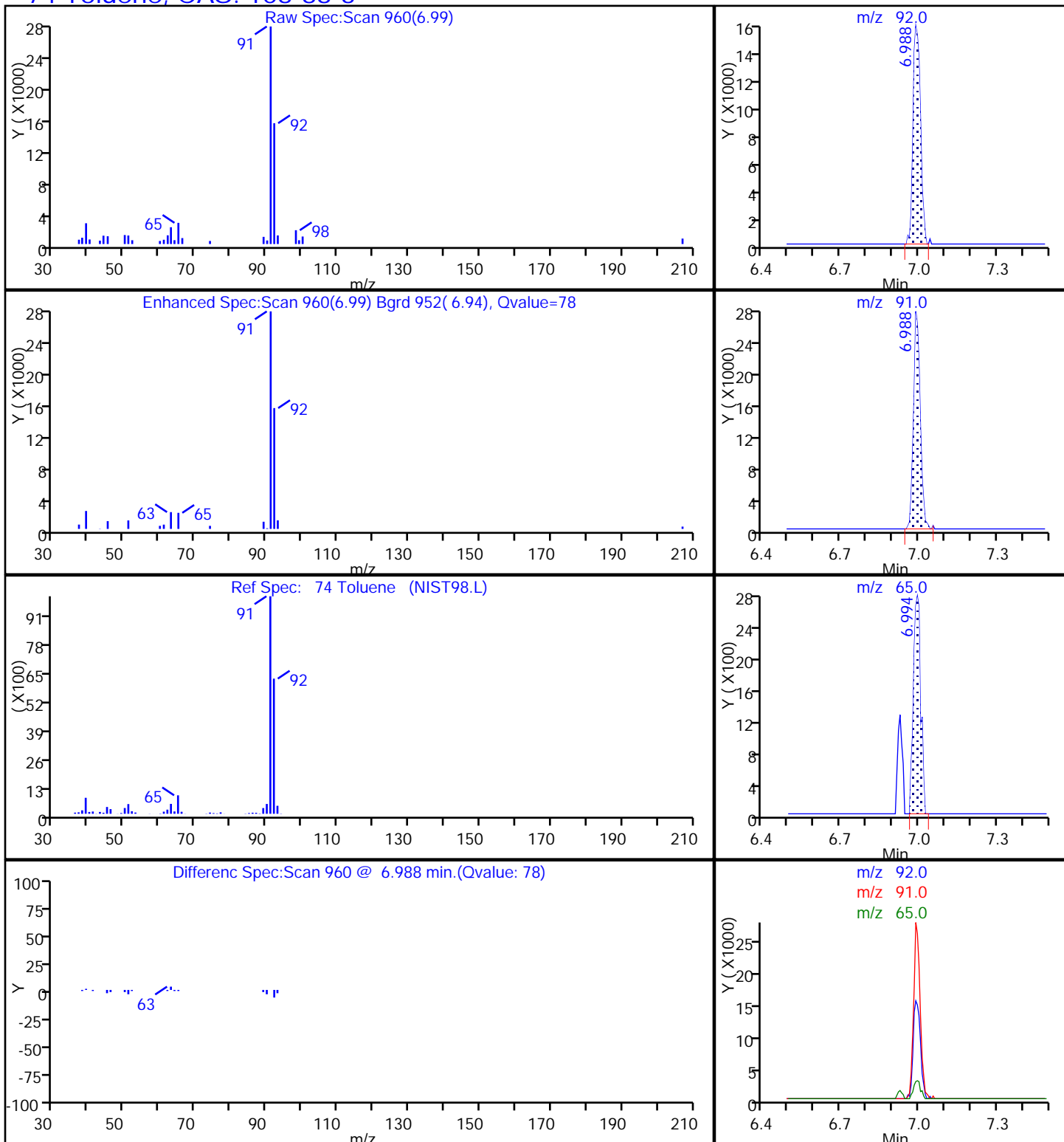
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

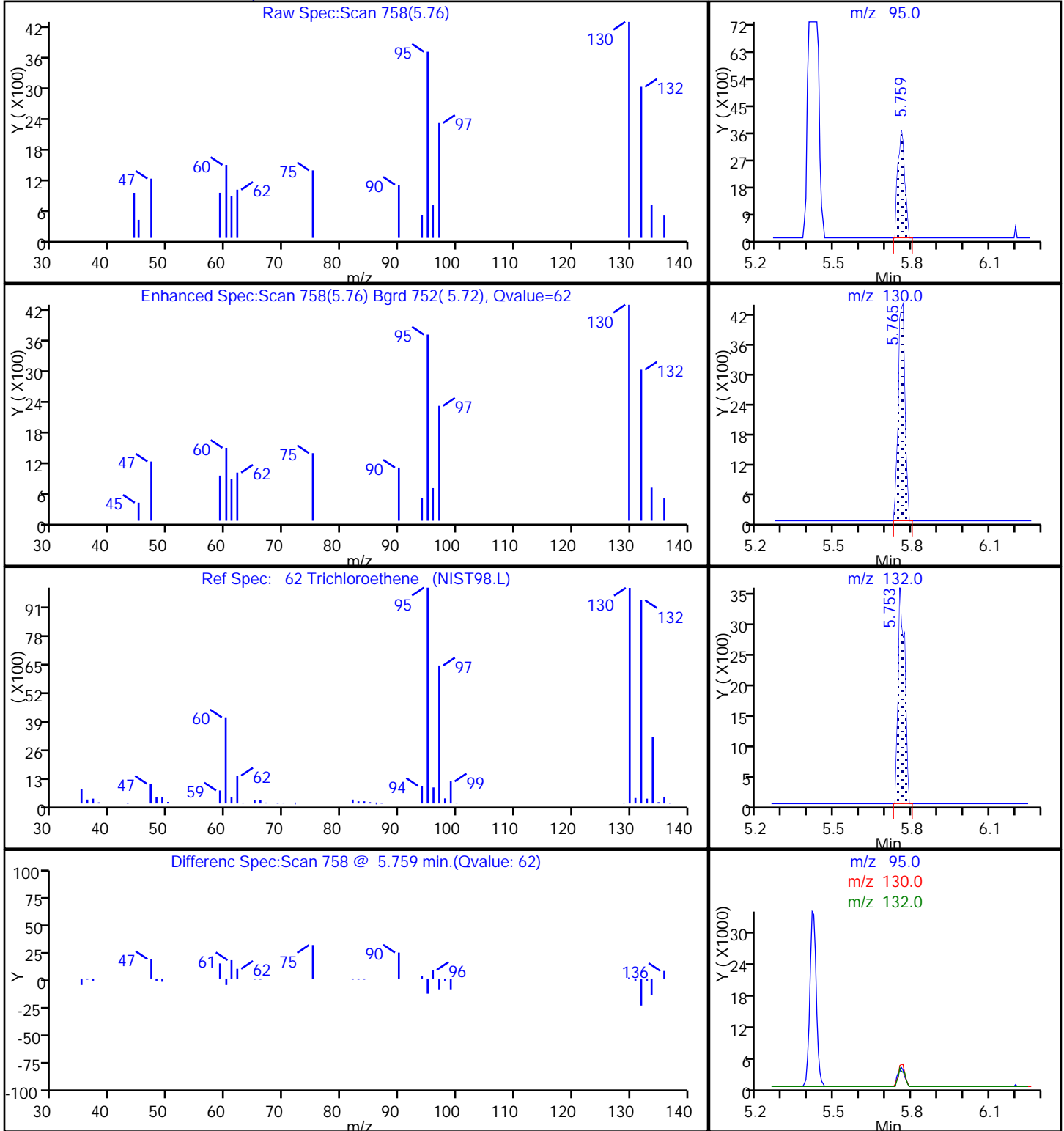
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

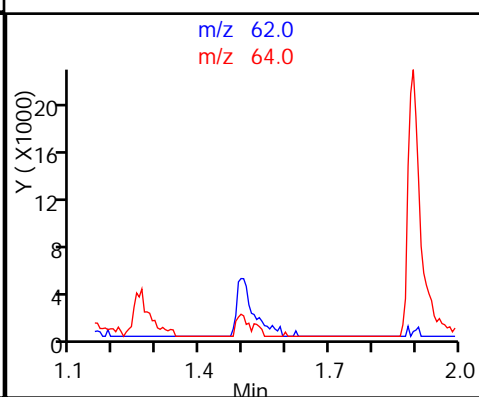
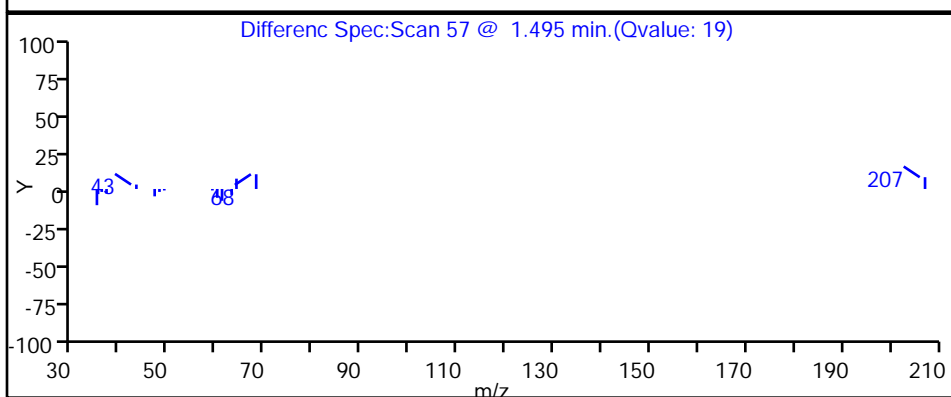
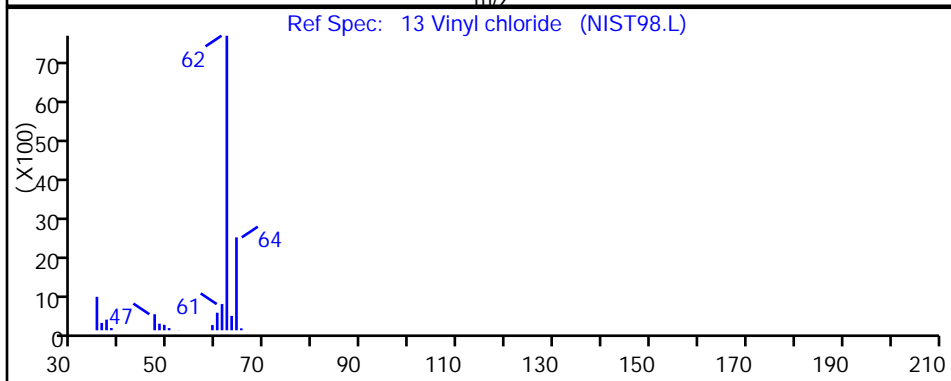
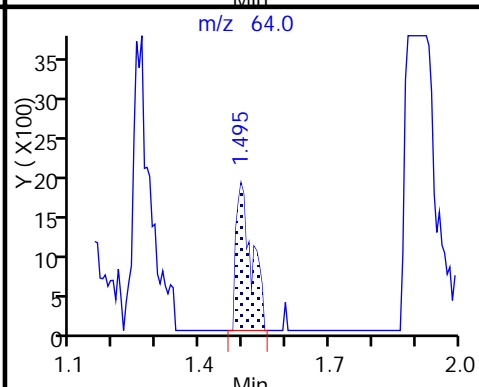
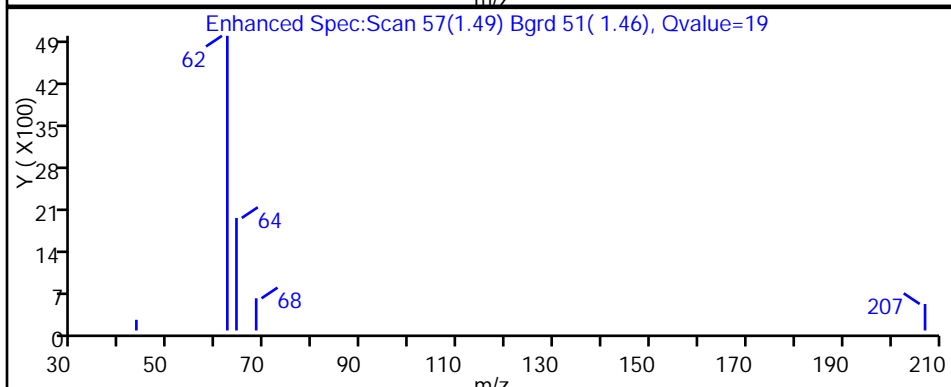
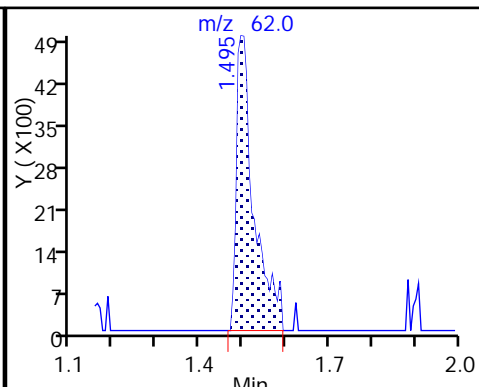
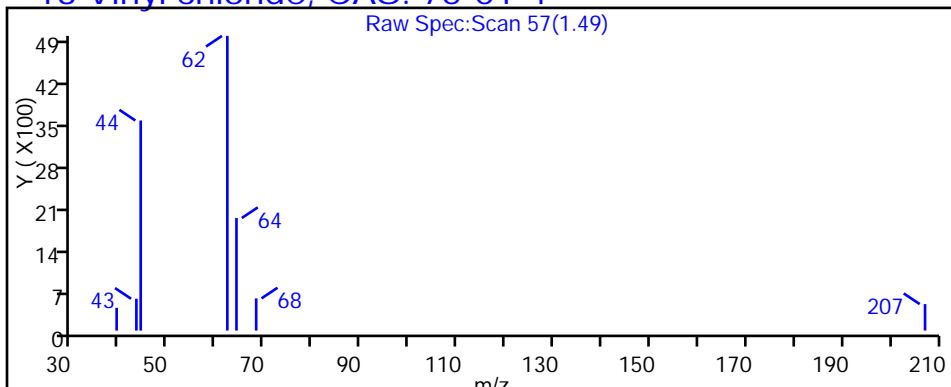
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7868.D

Injection Date: 25-Feb-2018 16:08:30

Instrument ID: HP5973S

Lims ID: 480-131737-F-5

Lab Sample ID: 480-131737-5

Client ID: ML-7D

Operator ID: AM

ALS Bottle#: 12 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

Method: S-8260

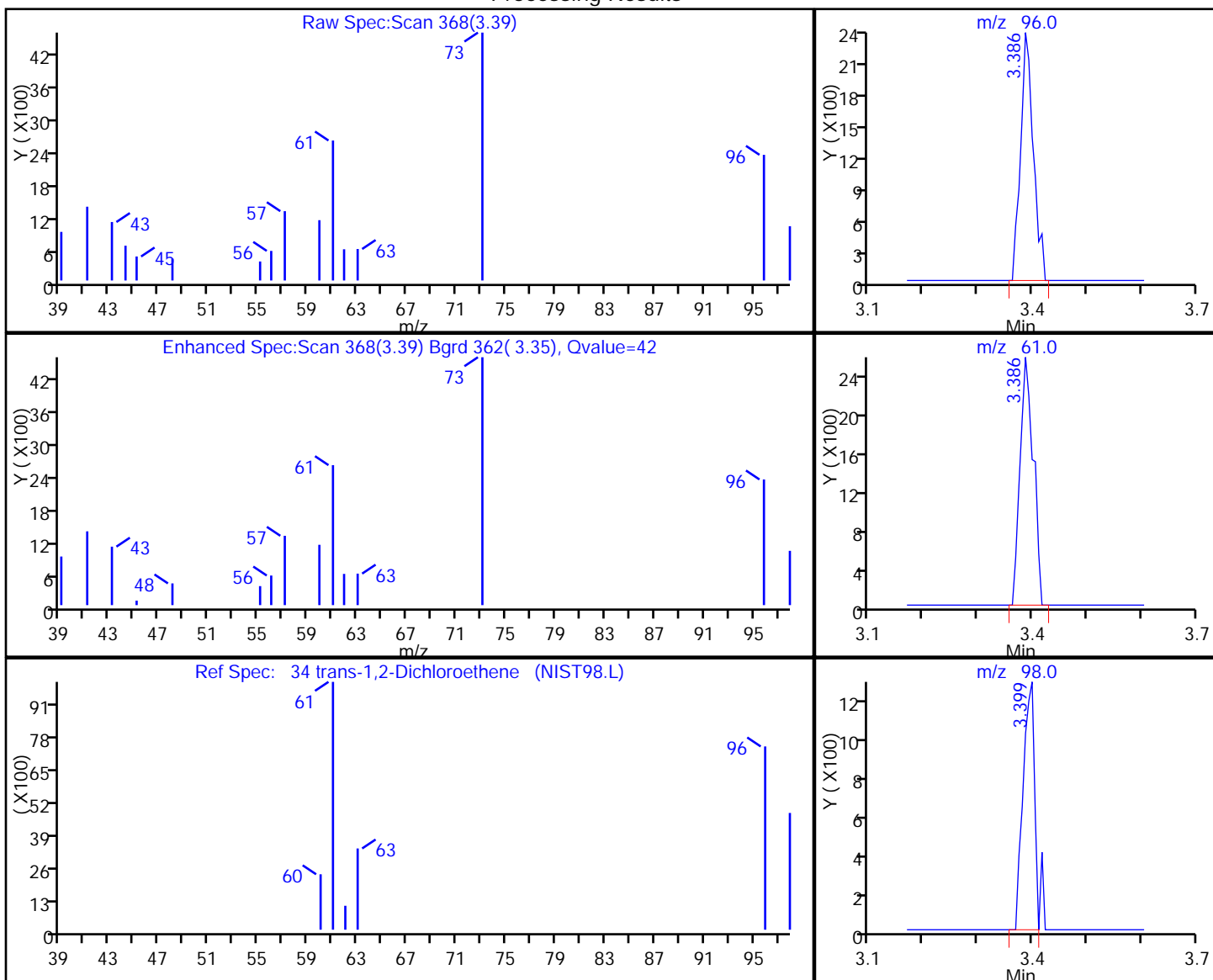
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
3.39	96.00	3791	0.602655
3.39	61.00	4374	
3.40	98.00	1825	

Reviewer: moffata, 26-Feb-2018 13:17:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: N7374.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	9.4		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	15	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	8.6		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	110		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	10		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: N7374.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	2.7	J	5.0	0.80
108-87-2	Methylcyclohexane	6.9		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	8.1		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	13		5.0	4.5
1330-20-7	Xylenes, Total	8.7	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: N7374.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D
 Lims ID: 480-131737-H-6
 Client ID: LBA-SBW-15
 Sample Type: Client
 Inject. Date: 28-Feb-2018 12:04:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-131737-H-6
 Misc. Info.: 480-0069548-009
 Operator ID: RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2018 09:41:37 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: farrellr Date: 01-Mar-2018 09:41:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	186291	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	91	687579	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	96	346526	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	208366	25.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	294525	25.6	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	862401	25.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.641	9.640	0.001	89	278517	26.0	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.507				ND	
14 Vinyl chloride	62	1.592	1.586	0.006	97	43029	2.61	
15 Bromomethane	94		1.896				ND	
16 Chloroethane	64	2.000	1.987	0.013	94	191279	21.7	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
23 Acetone	43		2.790				ND	U
25 Carbon disulfide	76		2.888				ND	
28 Methyl acetate	43		3.088				ND	
30 Methylene Chloride	84	3.174	3.180	-0.006	87	6172	0.1059	
32 Methyl tert-butyl ether	73	3.405	3.399	-0.006	95	17046	0.5343	
33 trans-1,2-Dichloroethene	96	3.423	3.417	0.006	53	3754	0.3877	
36 1,1-Dichloroethane	63	3.819	3.818	0.001	96	40036	1.87	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	85	22276	2.01	
44 2-Butanone (MEK)	43	4.396	4.390	0.006	95	31744	2.98	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97	4.798	4.798	0.000	1	3040	0.2148	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.944				ND	
55 Benzene	78	5.145	5.145	0.000	96	67847	1.71	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95		5.753				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.887	5.893	-0.006	92	21905	1.37	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	Ua
73 Toluene	92	6.982	6.982	0.000	98	41586	1.62	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.523				ND	
82 2-Hexanone	43		7.663				ND	U
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91	8.521	8.521	0.000	96	16896	0.3683	
90 m-Xylene & p-Xylene	106	8.649	8.649	0.000	0	32304	1.74	
91 o-Xylene	106	9.069	9.069	0.001	96	13134	0.7309	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105	9.458	9.463	0.000	96	23186	0.5215	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		2.47	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Operator ID: RF

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Worklist Smp#: 9

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

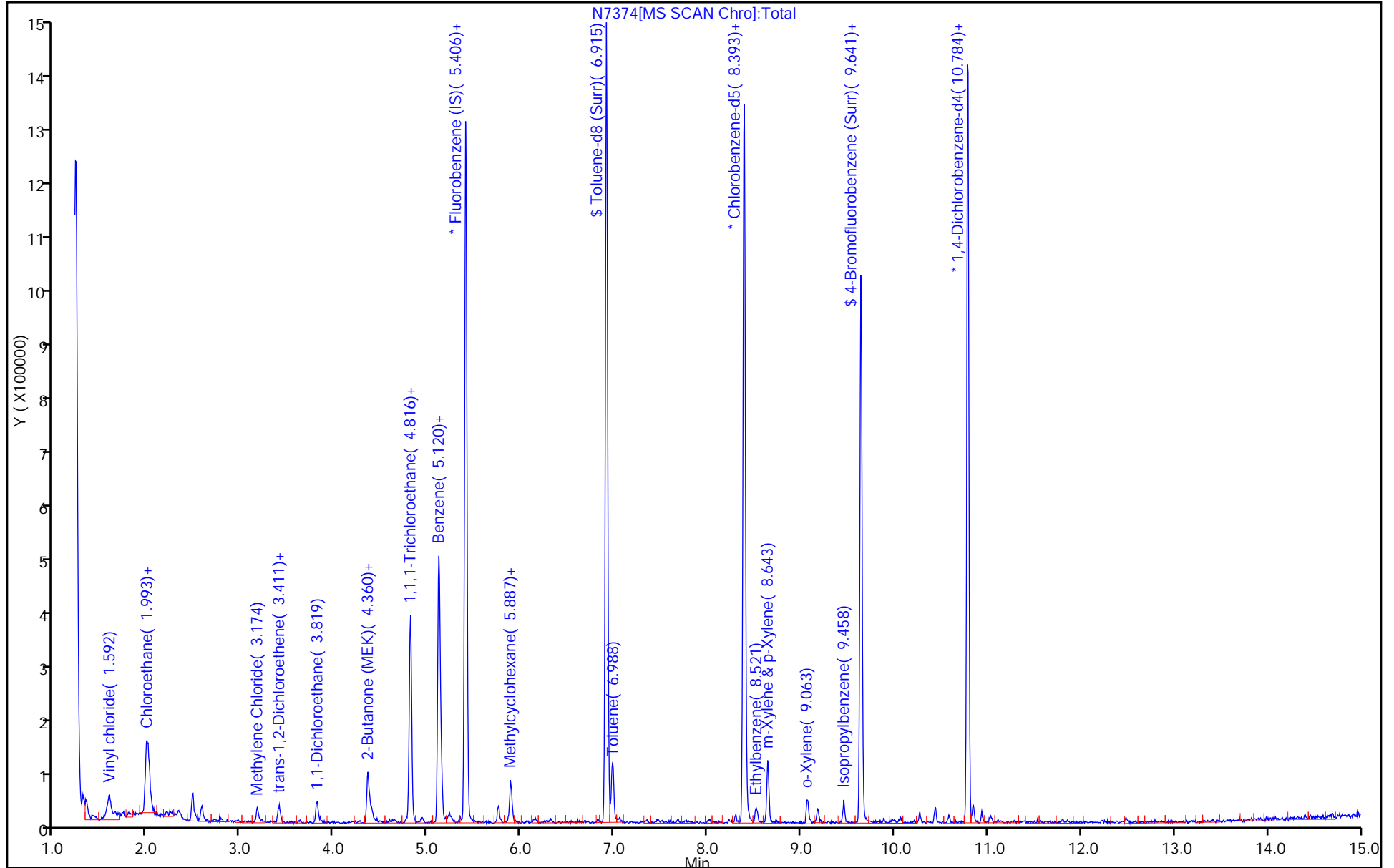
Dil. Factor: 5.0000

ALS Bottle#: 9

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

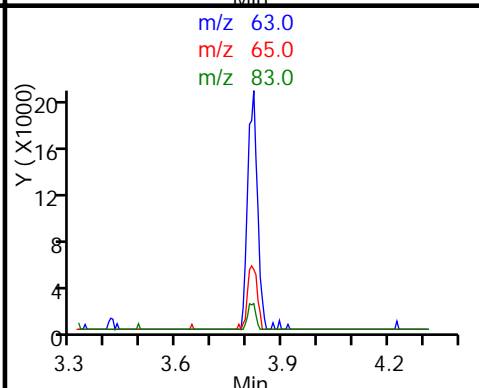
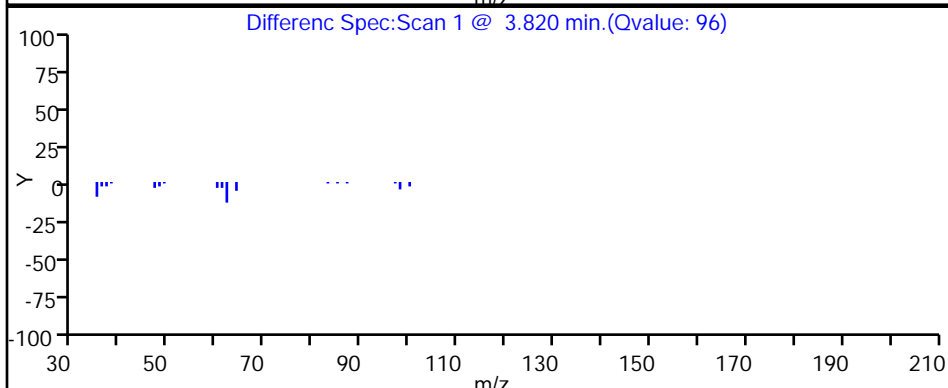
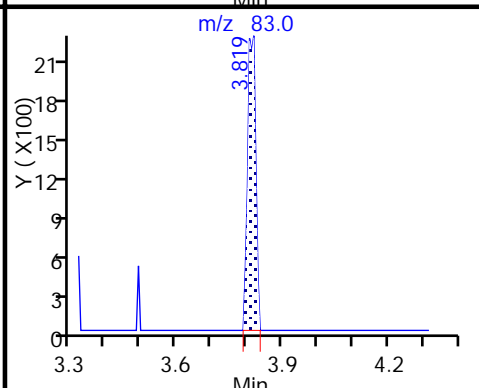
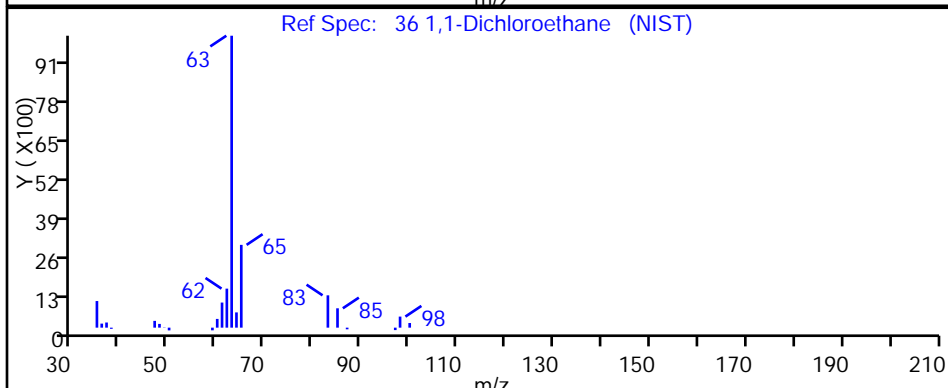
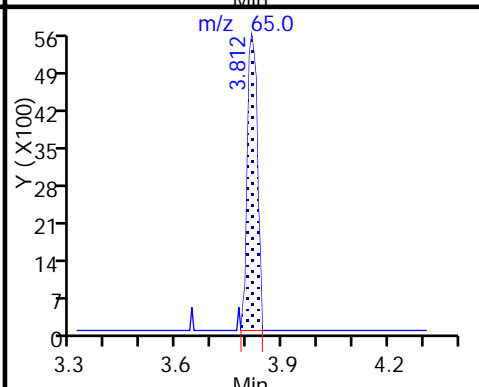
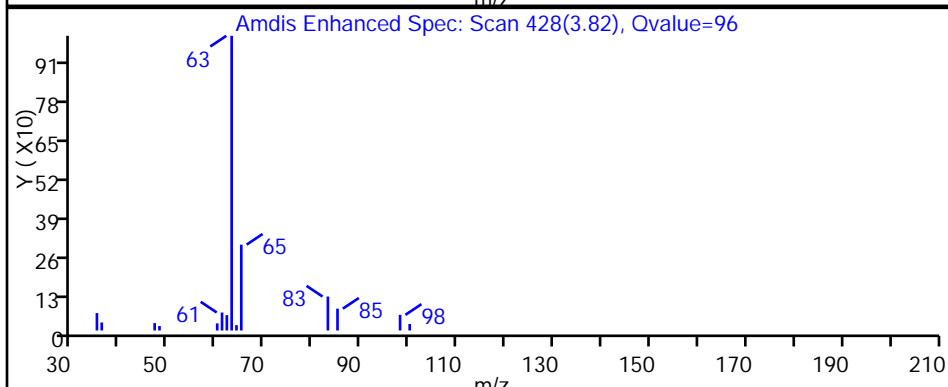
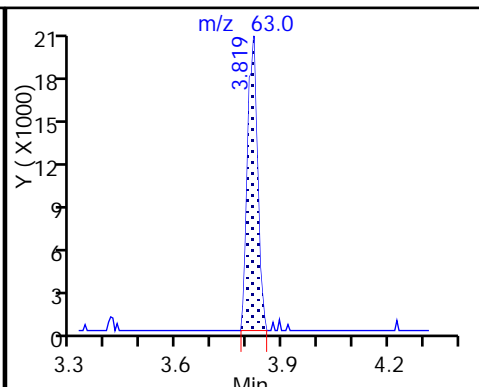
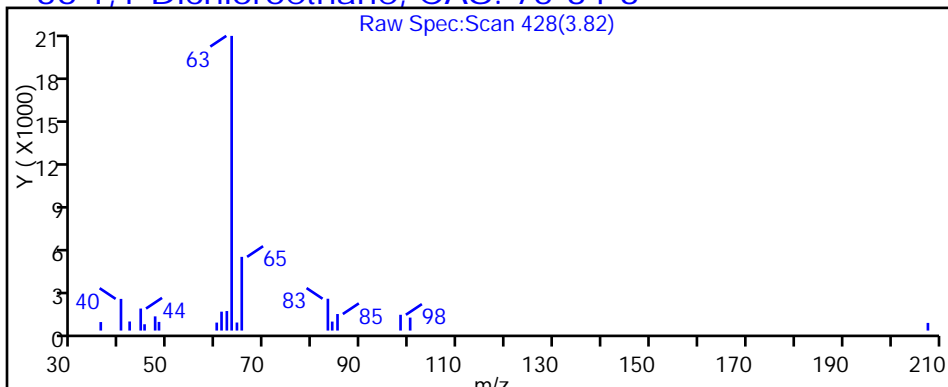
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

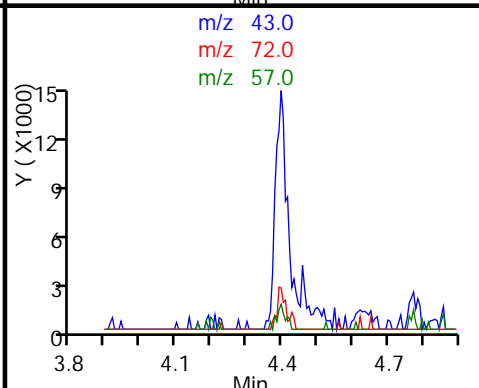
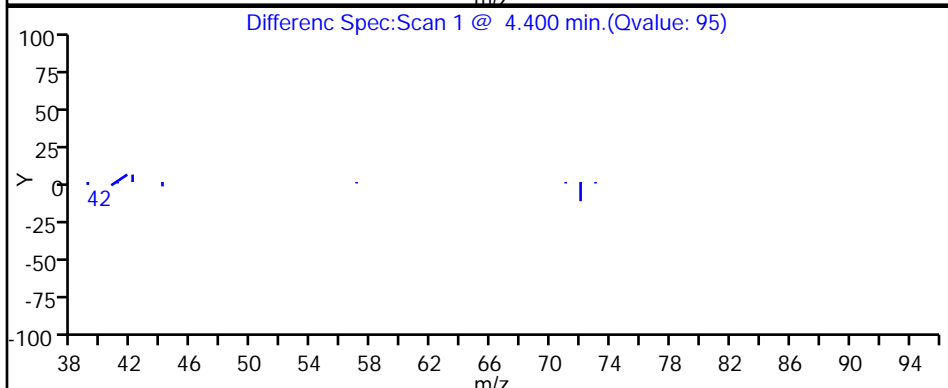
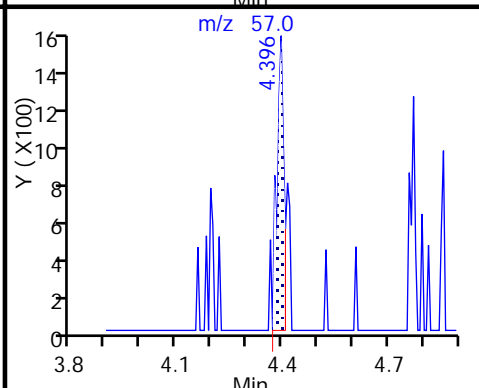
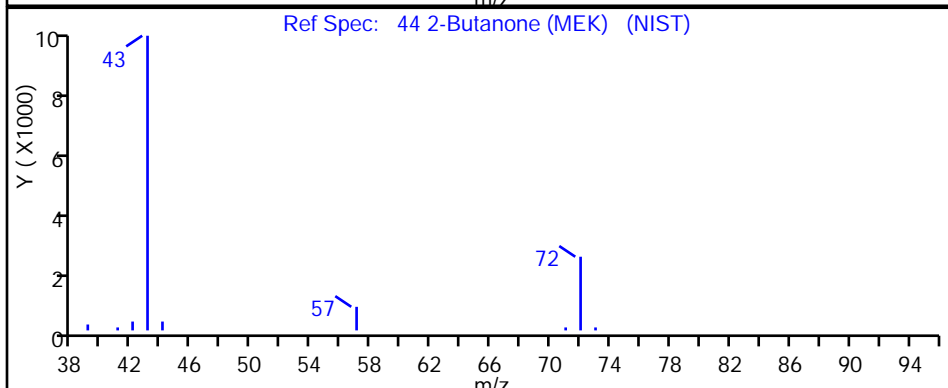
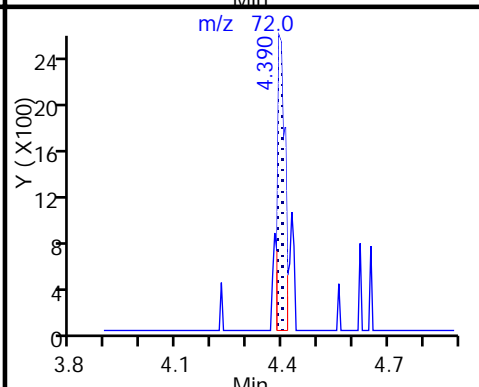
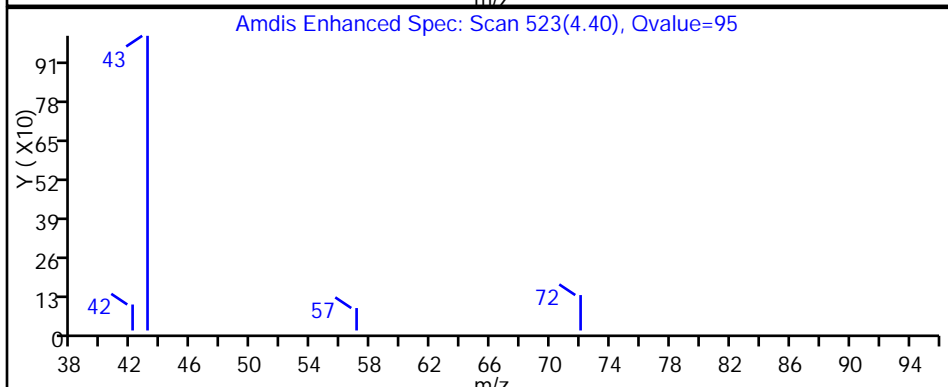
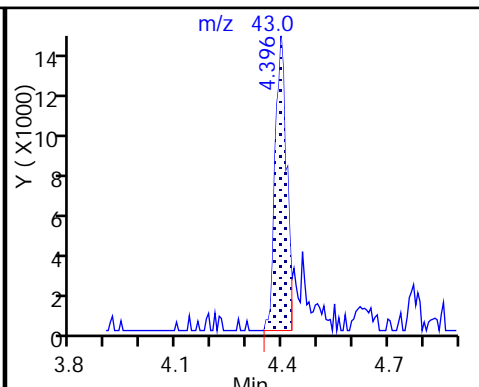
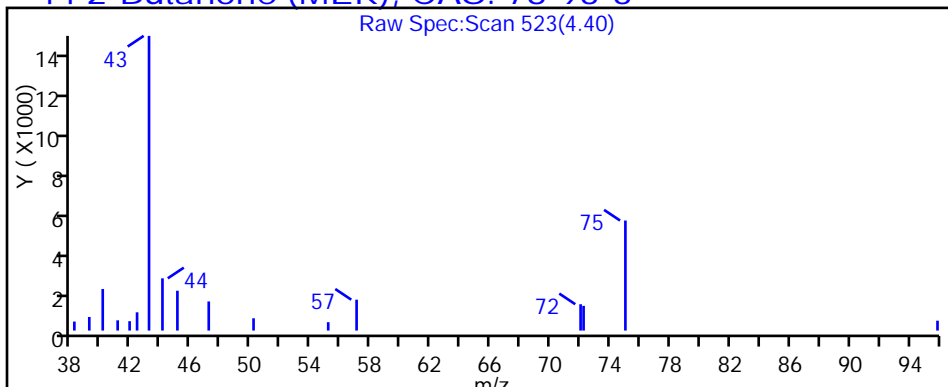
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

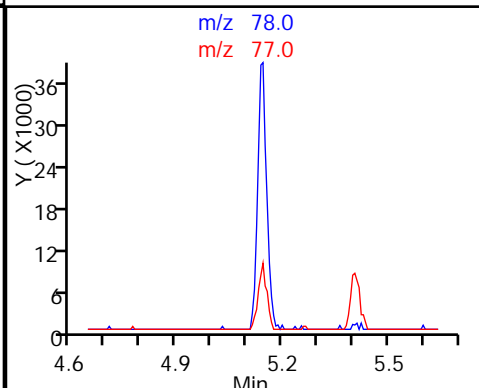
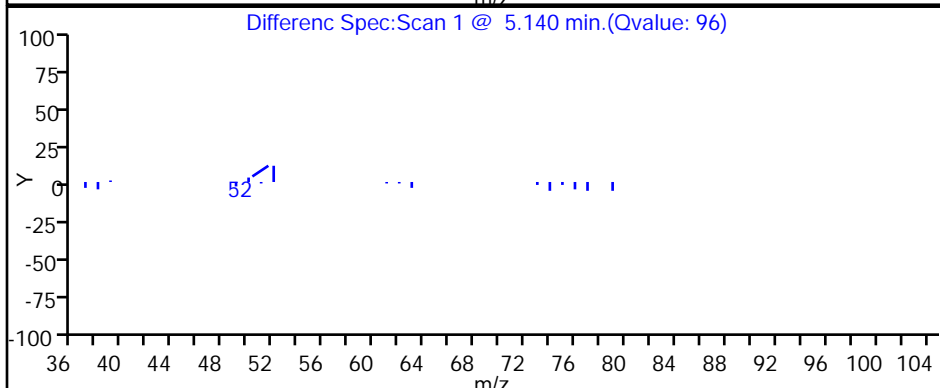
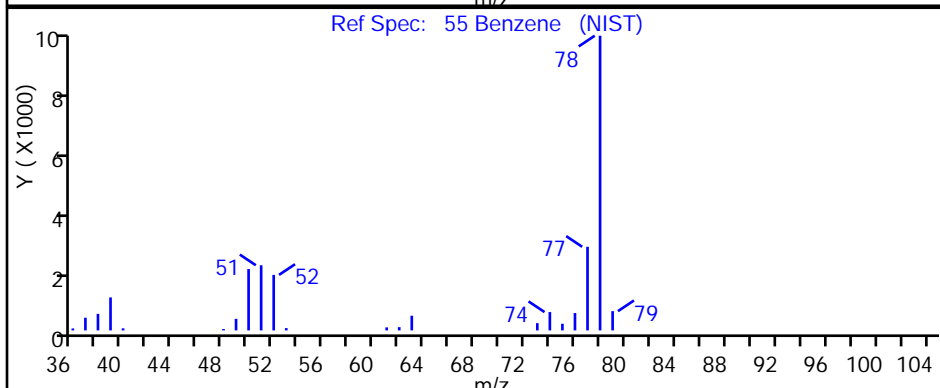
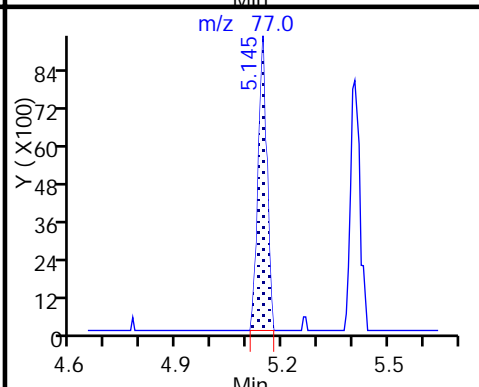
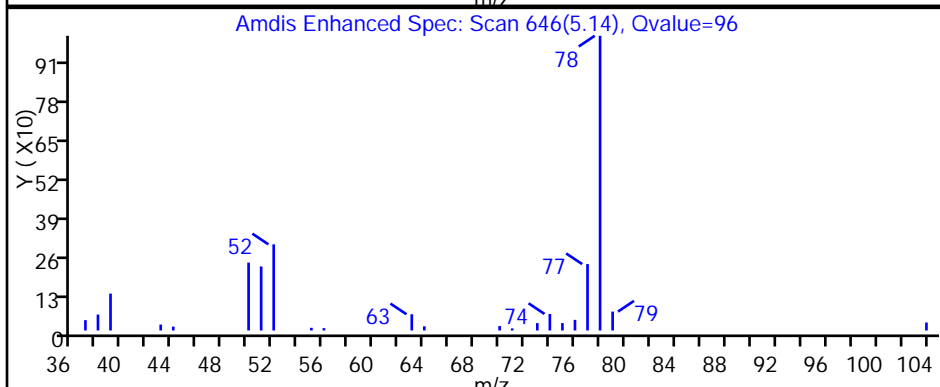
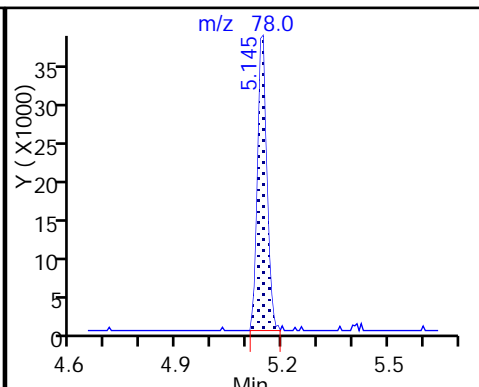
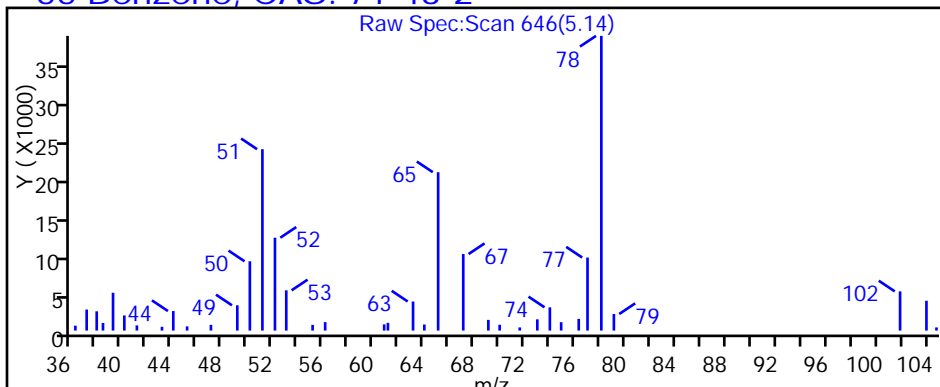
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

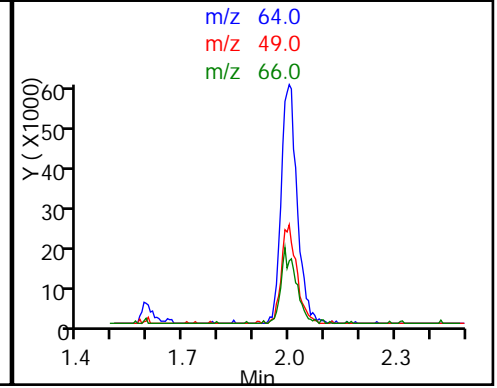
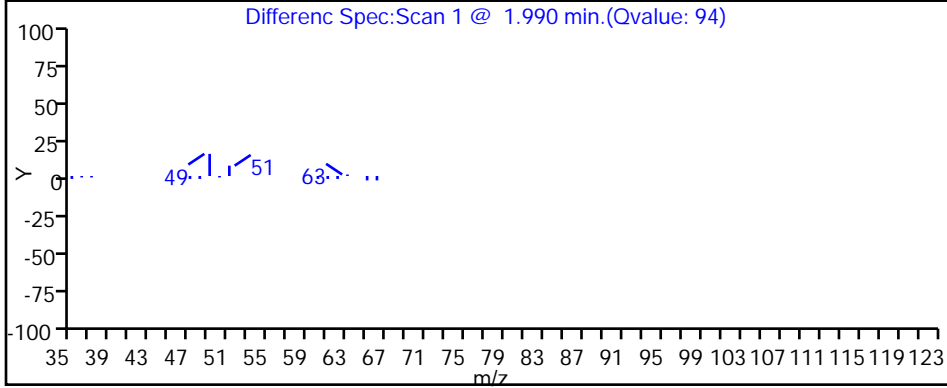
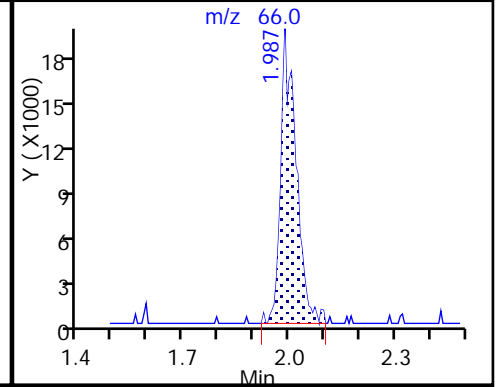
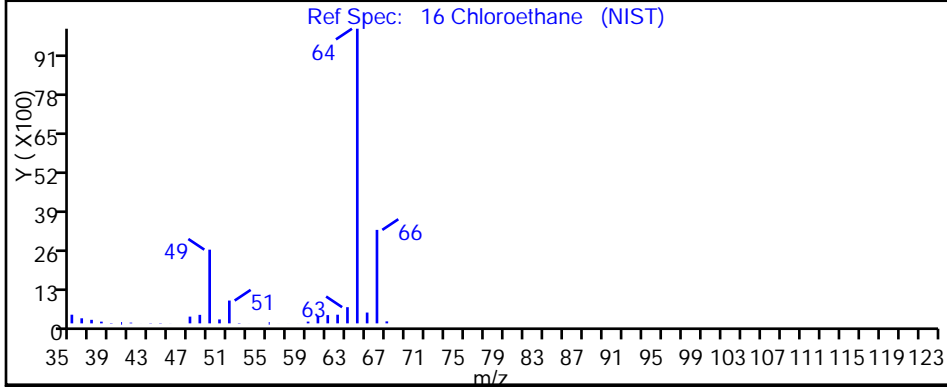
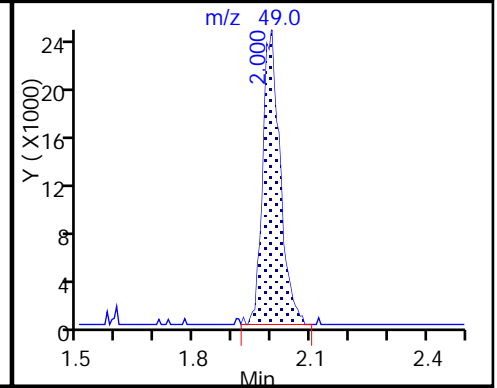
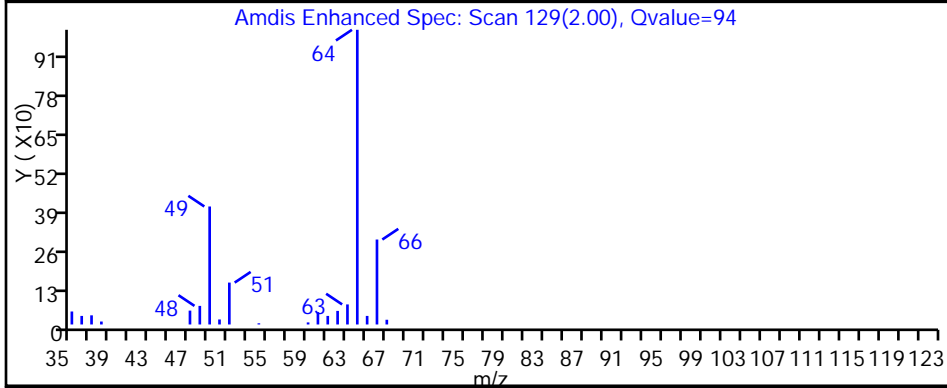
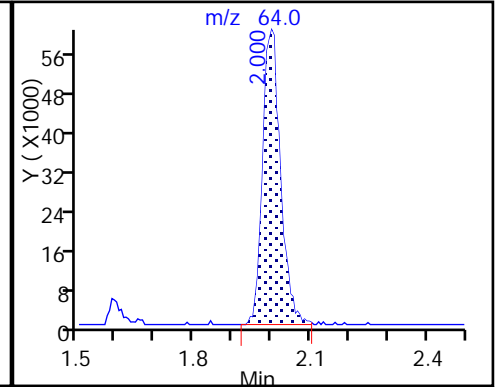
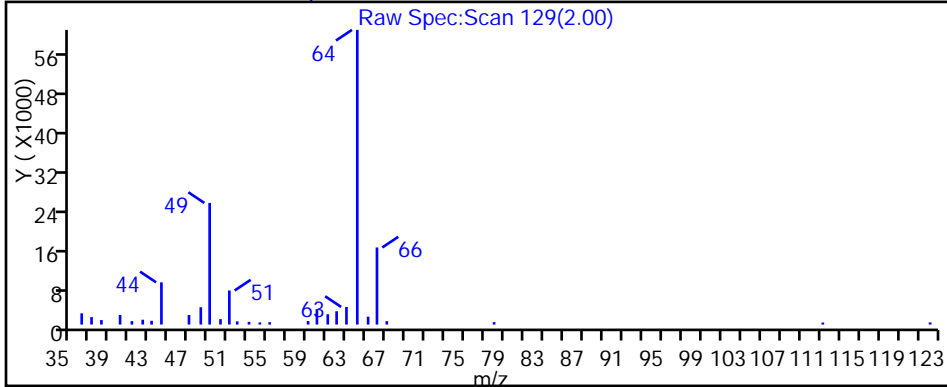
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

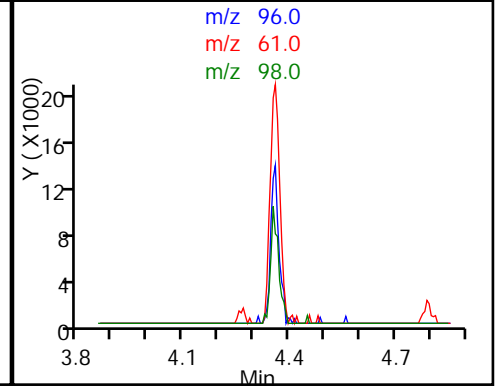
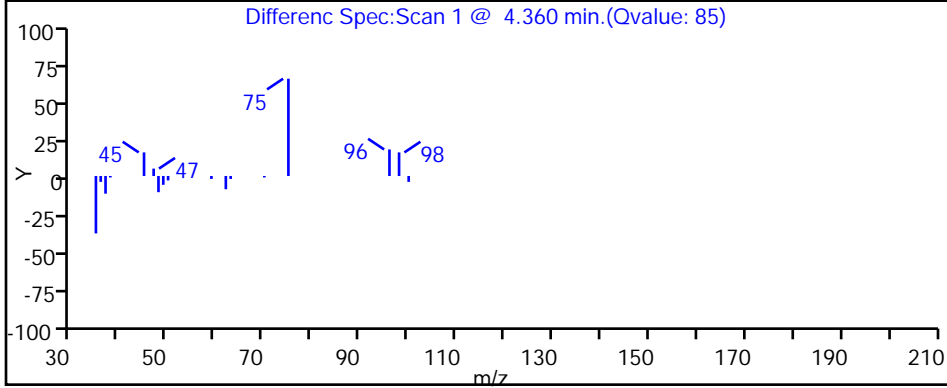
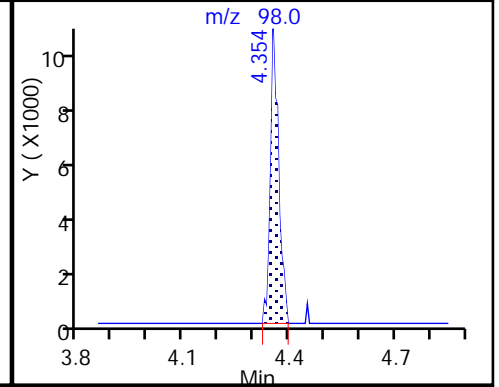
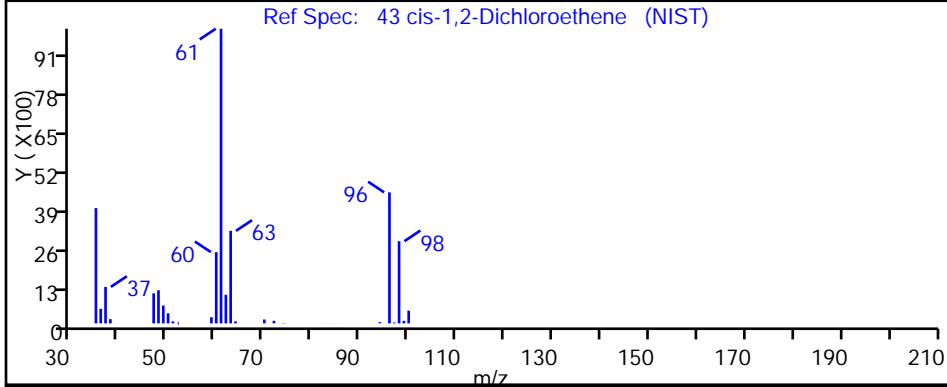
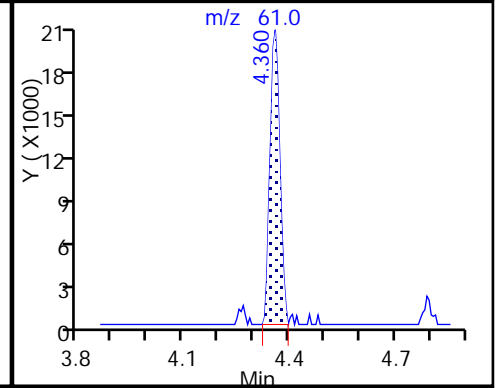
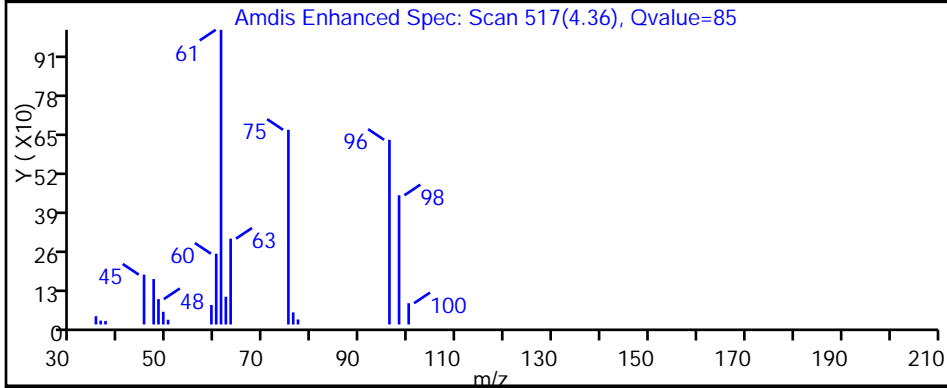
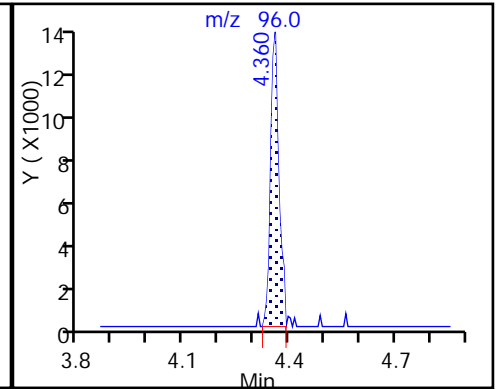
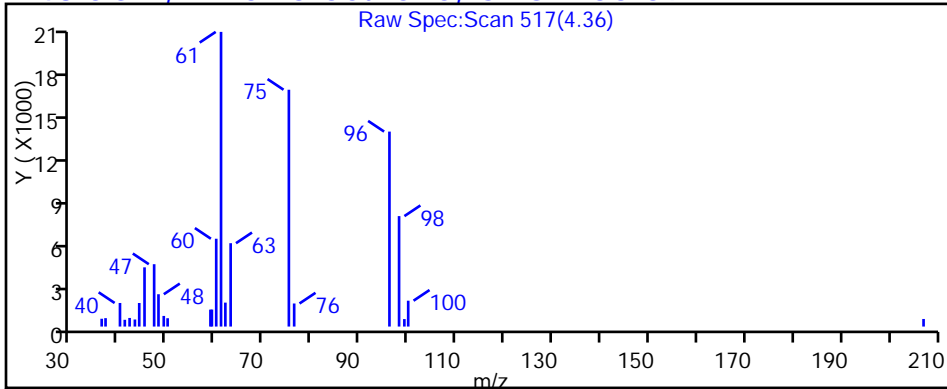
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

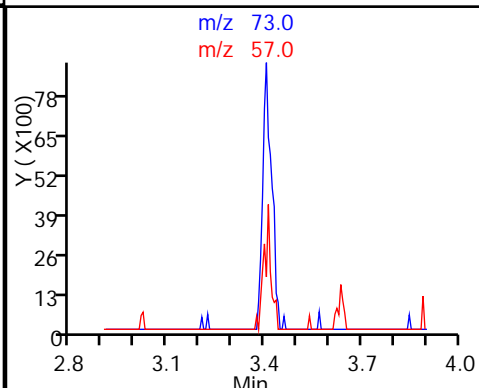
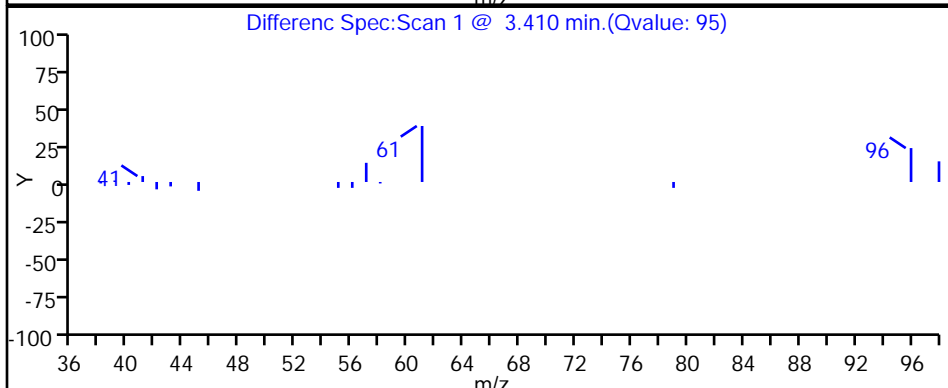
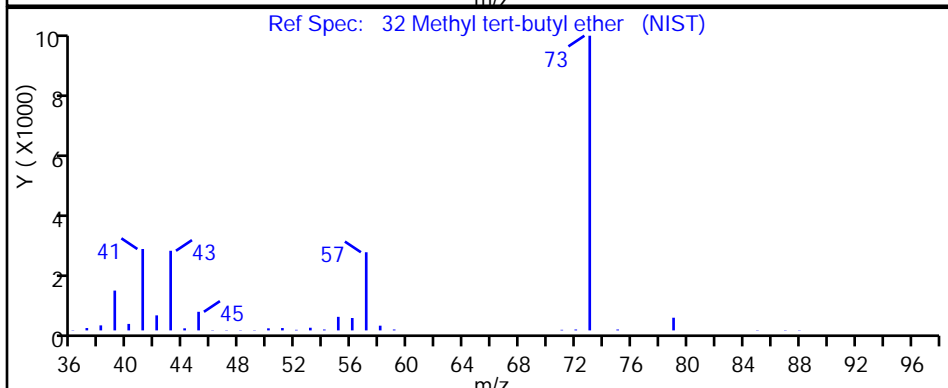
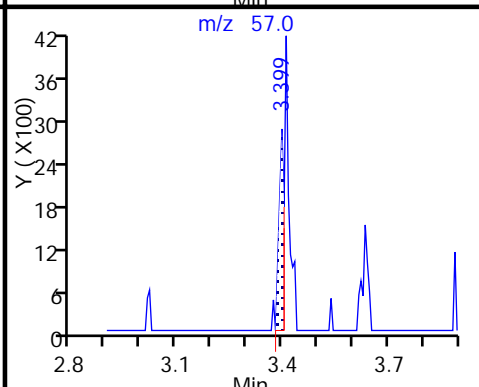
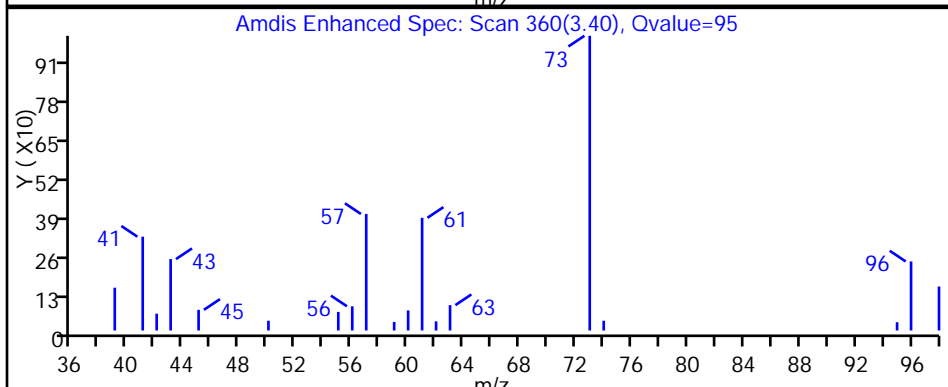
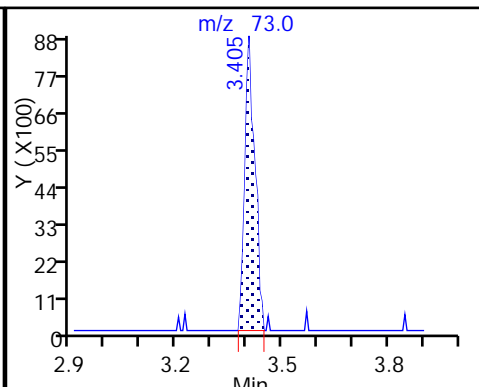
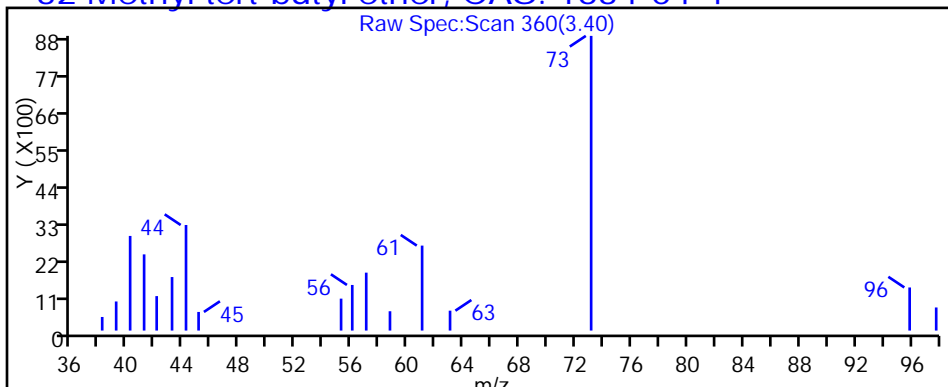
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

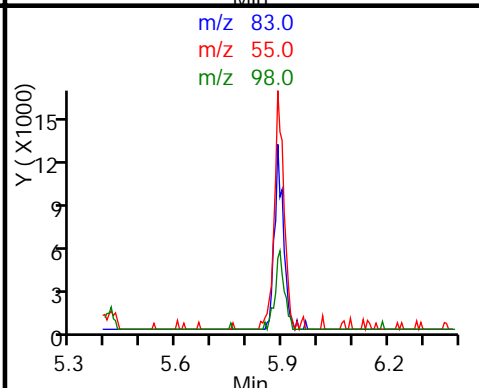
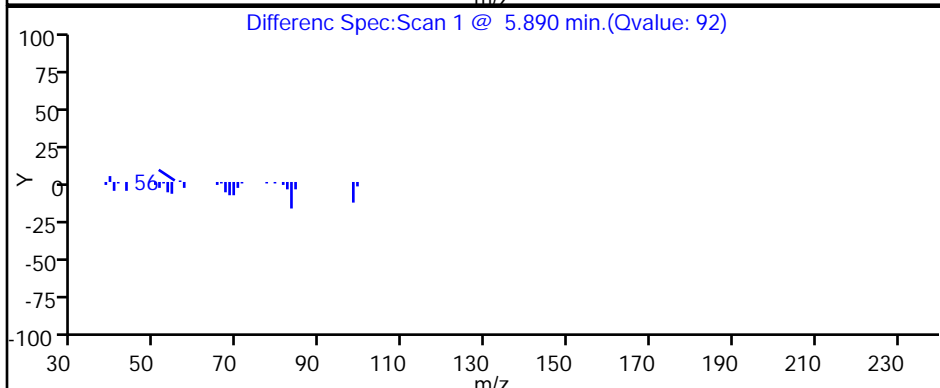
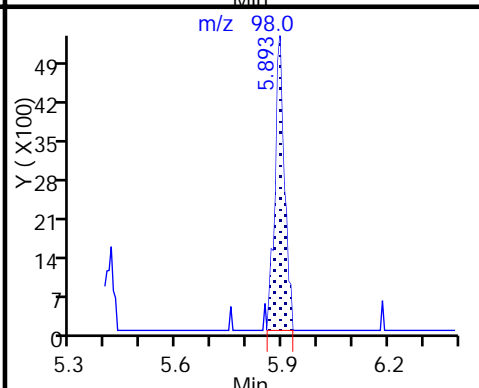
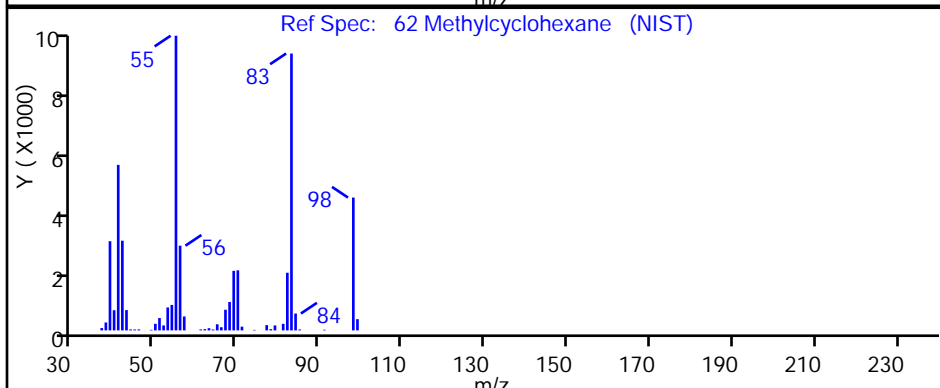
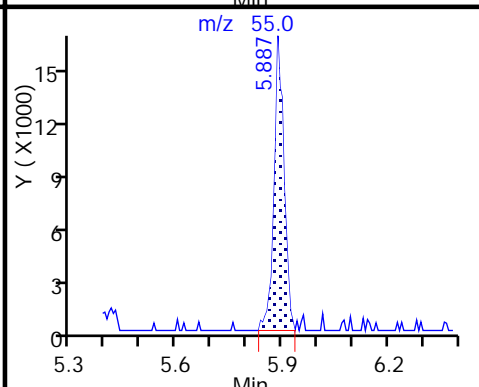
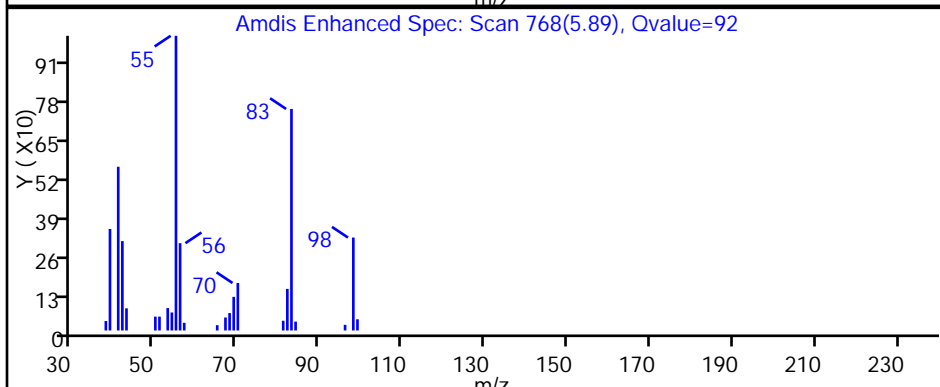
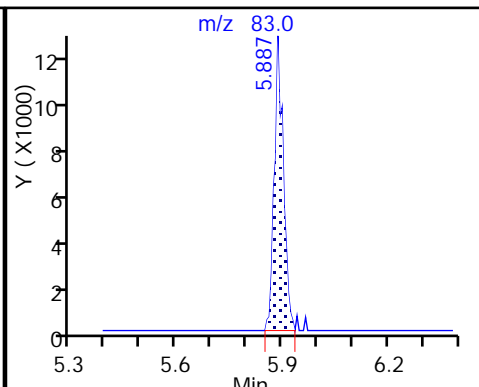
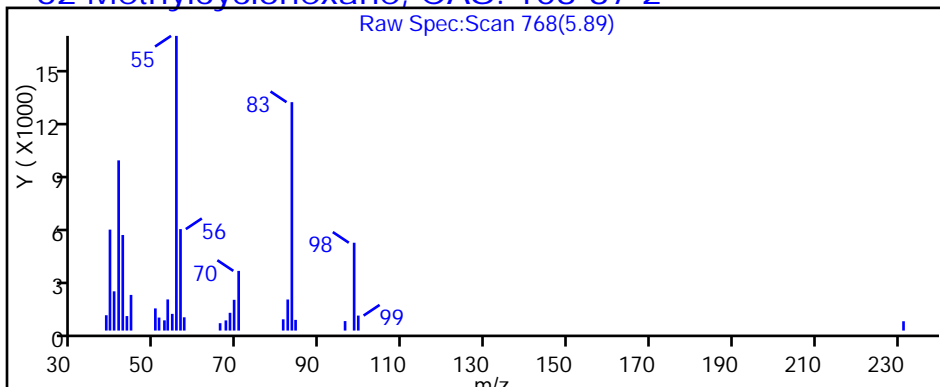
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

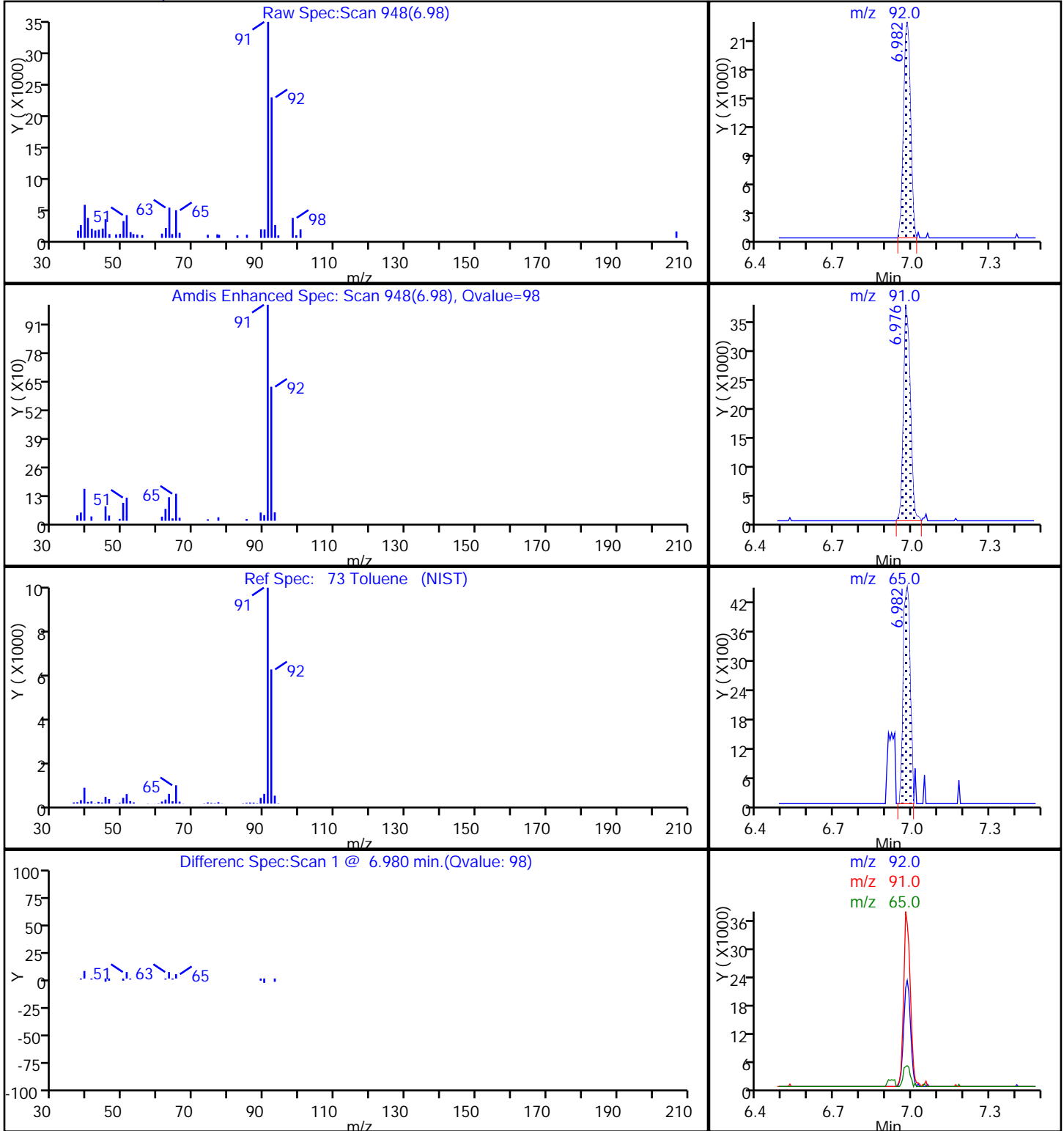
62 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D
Injection Date: 28-Feb-2018 12:04:30 Instrument ID: HP5973N
Lims ID: 480-131737-H-6 Lab Sample ID: 480-131737-6
Client ID: LBA-SBW-15
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

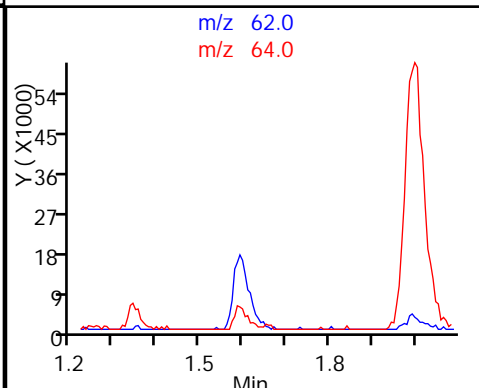
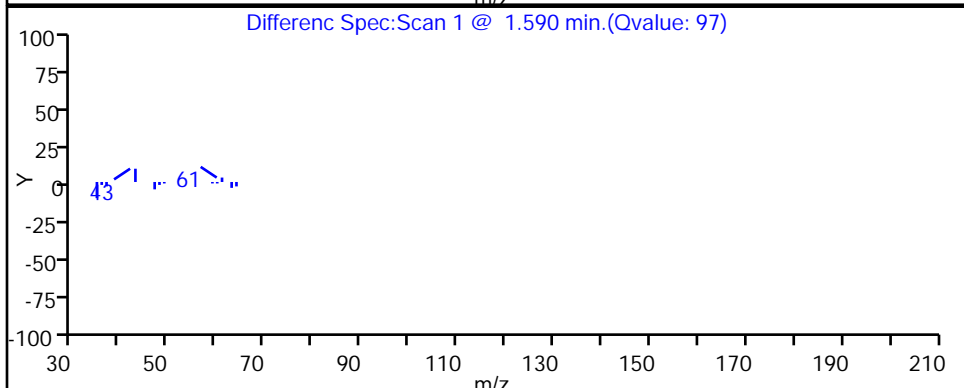
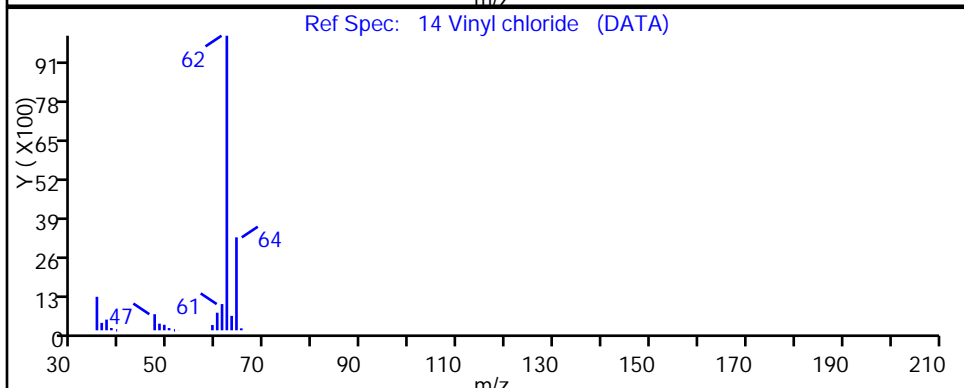
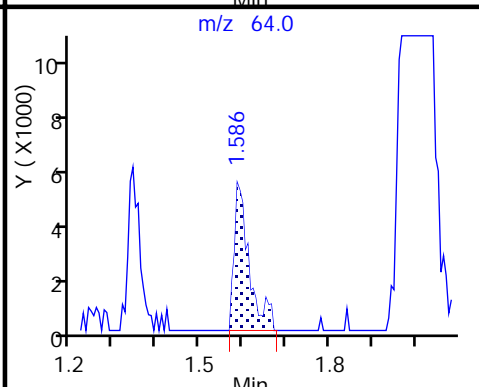
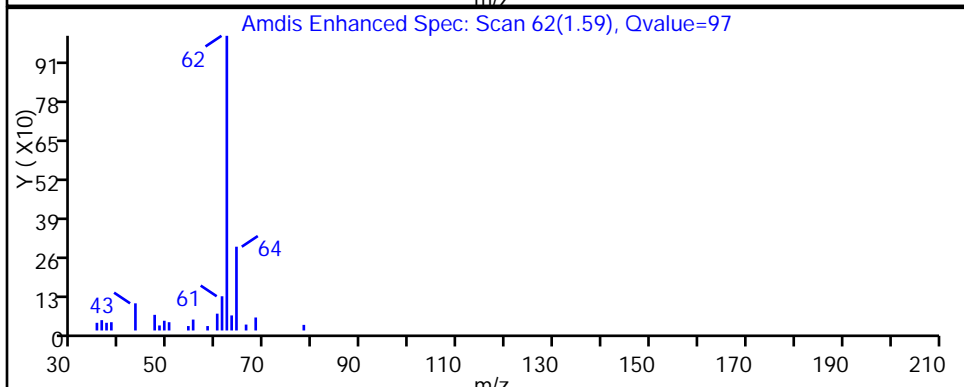
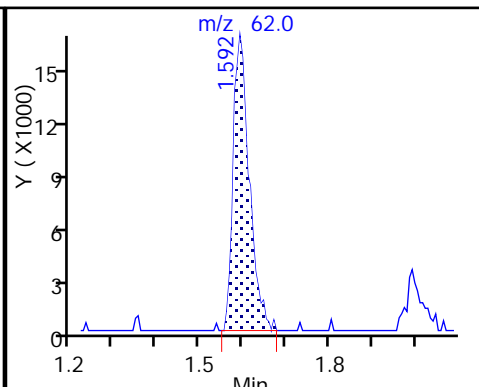
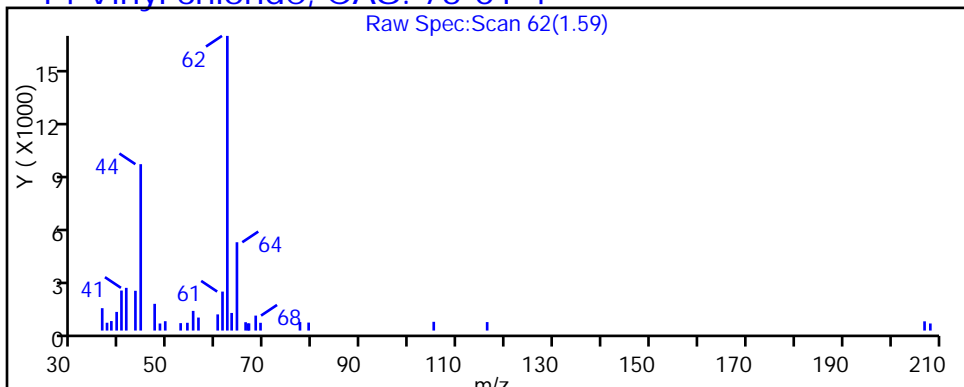
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

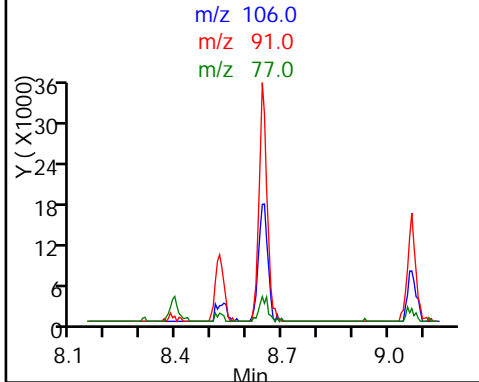
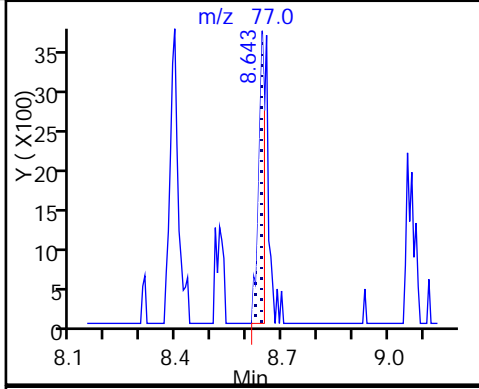
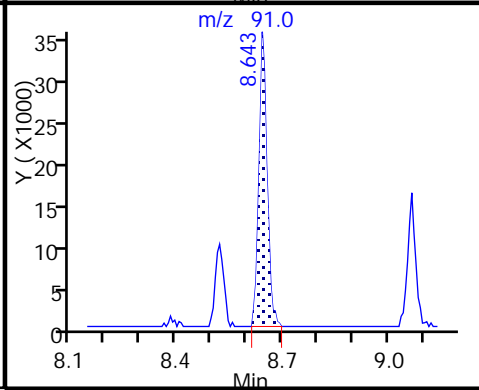
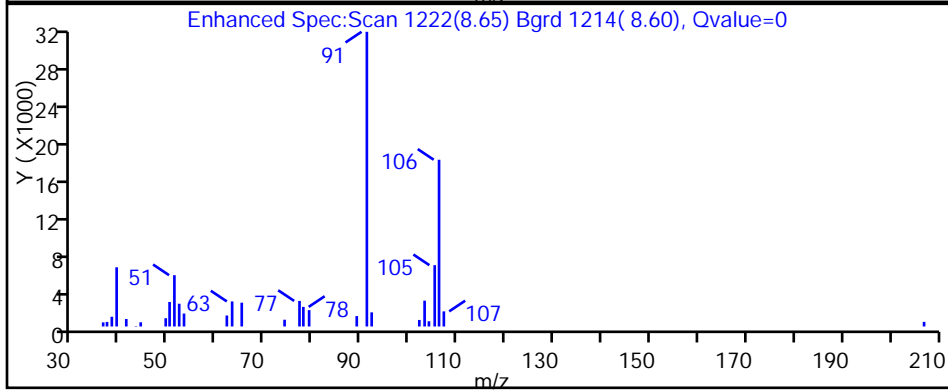
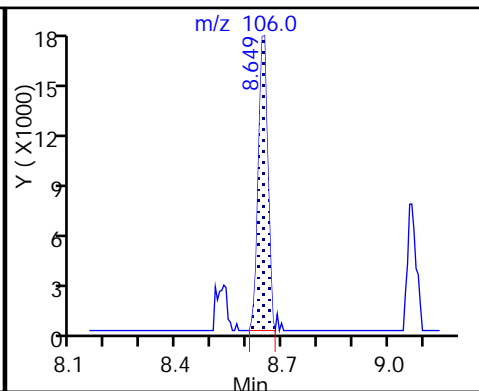
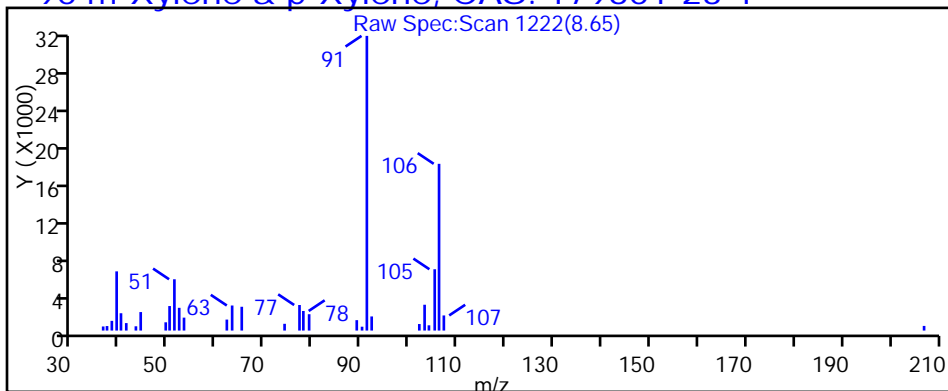
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D

Injection Date: 28-Feb-2018 12:04:30

Instrument ID: HP5973N

Lims ID: 480-131737-H-6

Lab Sample ID: 480-131737-6

Client ID: LBA-SBW-15

Operator ID: RF

ALS Bottle#: 9

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

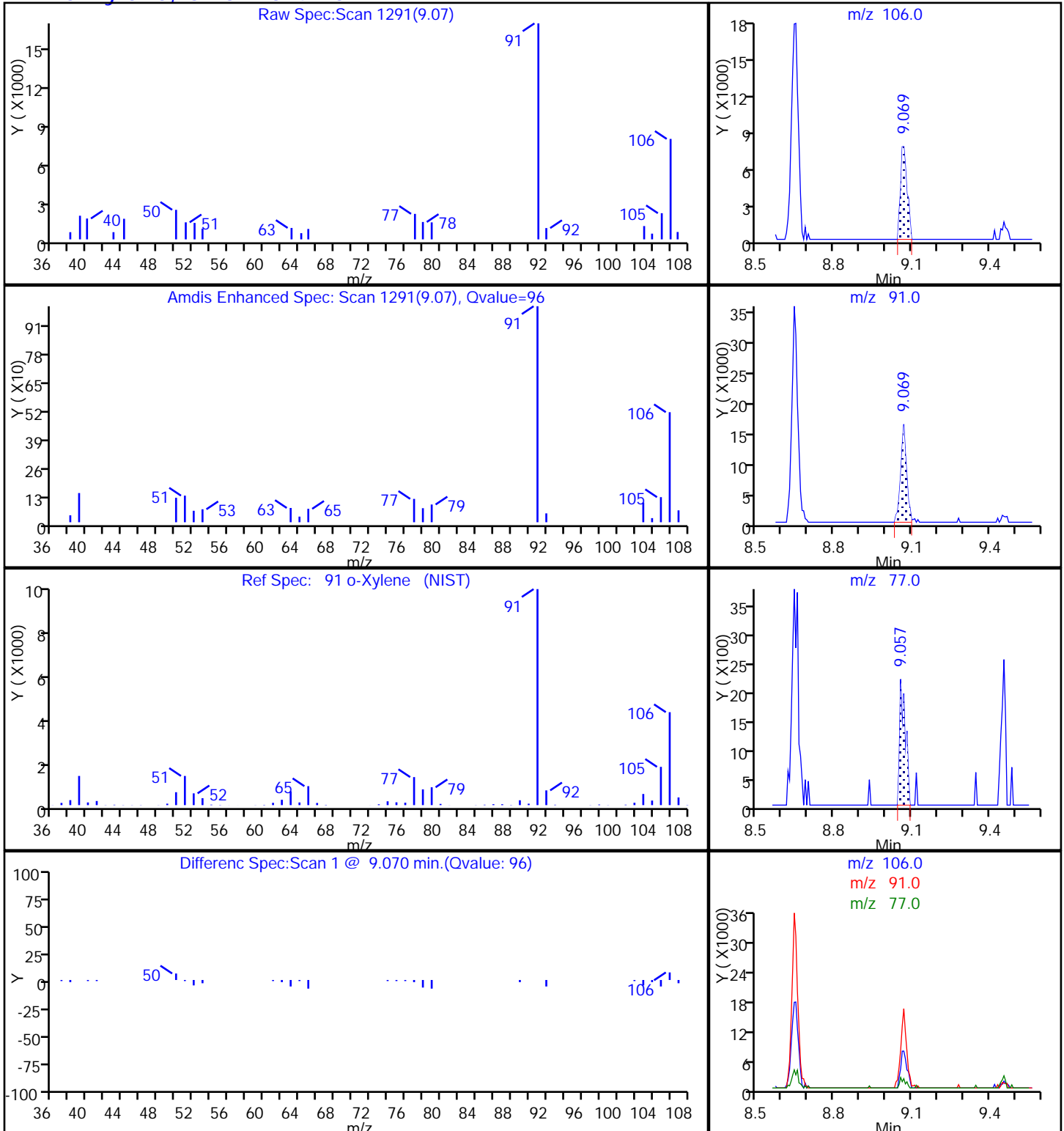
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

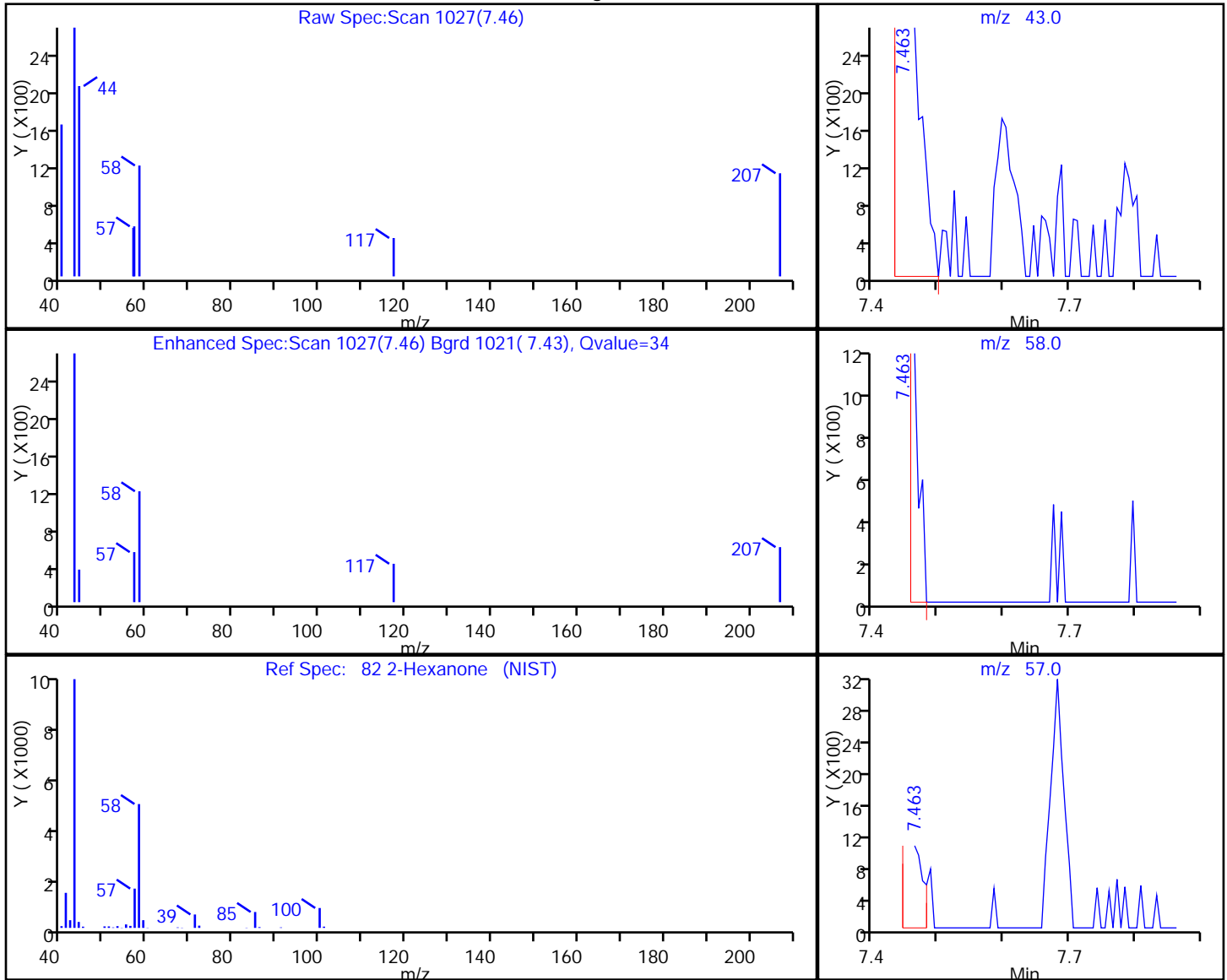


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D
 Injection Date: 28-Feb-2018 12:04:30 Instrument ID: HP5973N
 Lims ID: 480-131737-H-6 Lab Sample ID: 480-131737-6
 Client ID: LBA-SBW-15
 Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.46	43.00	4739	0.295348
7.46	58.00	791	
7.46	57.00	1467	

Reviewer: farrellr, 01-Mar-2018 09:41:37

Audit Action: Marked Compound Undetected

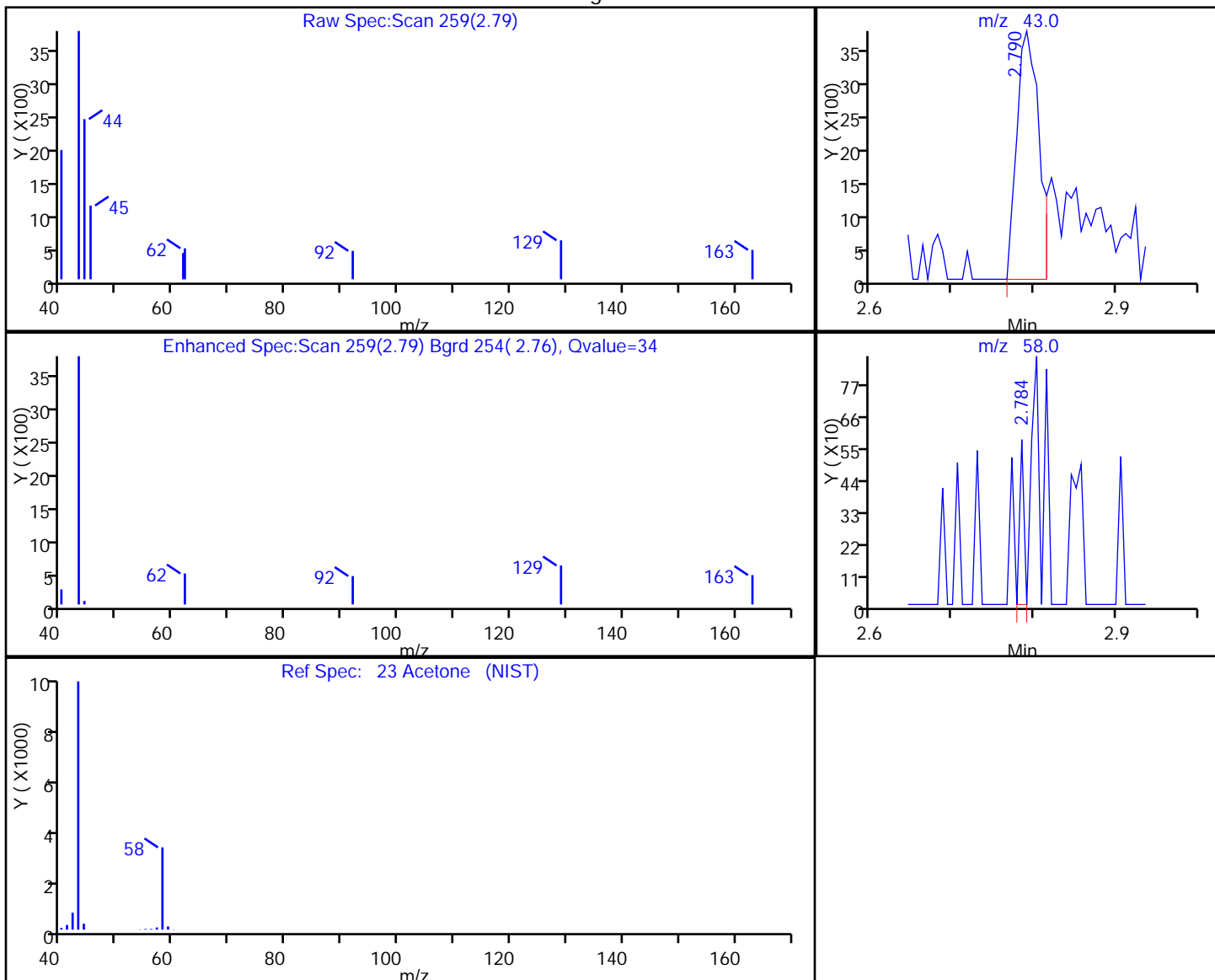
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7374.D
Injection Date: 28-Feb-2018 12:04:30 Instrument ID: HP5973N
Lims ID: 480-131737-H-6 Lab Sample ID: 480-131737-6
Client ID: LBA-SBW-15
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.79	43.00	7137	1.124316
2.78	58.00	210	

Reviewer: farrellr, 01-Mar-2018 09:41:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-131737-7
 Matrix: Water Lab File ID: N7375.D
 Analysis Method: 8260C Date Collected: 02/21/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:31
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	8.7		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	16	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	9.1		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	120		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	11		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-131737-7
 Matrix: Water Lab File ID: N7375.D
 Analysis Method: 8260C Date Collected: 02/21/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:31
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	2.7	J	5.0	0.80
108-87-2	Methylcyclohexane	7.0		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	8.3		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	14		5.0	4.5
1330-20-7	Xylenes, Total	8.4	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-131737-7
 Matrix: Water Lab File ID: N7375.D
 Analysis Method: 8260C Date Collected: 02/21/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:31
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D
 Lims ID: 480-131737-C-7
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 28-Feb-2018 12:31:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-131737-C-7
 Misc. Info.: 480-0069548-012
 Operator ID: RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2018 09:42:36 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: farrellr

Date: 01-Mar-2018 09:42:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	180845	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	92	678933	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	347811	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	208622	25.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	283599	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	834245	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.640	0.006	92	273154	25.8	
11 Dichlorodifluoromethane	85		1.336				ND	
13 Chloromethane	50		1.507				ND	
14 Vinyl chloride	62	1.586	1.586	0.000	97	43979	2.75	
15 Bromomethane	94		1.896				ND	
16 Chloroethane	64	1.993	1.987	0.006	94	200474	23.4	
18 Trichlorofluoromethane	101		2.200				ND	
22 1,1-Dichloroethene	96		2.687				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
23 Acetone	43	2.790	2.790	0.000	50	5606	0.9097	
25 Carbon disulfide	76		2.888				ND	
28 Methyl acetate	43		3.088				ND	
30 Methylene Chloride	84	3.174	3.180	-0.006	86	6865	0.1943	
32 Methyl tert-butyl ether	73	3.411	3.399	0.000	90	16782	0.5418	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	54	3099	0.3297	
36 1,1-Dichloroethane	63	3.818	3.818	0.000	97	36056	1.74	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	24604	2.29	
44 2-Butanone (MEK)	43	4.396	4.390	0.006	96	33958	3.29	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97	4.792	4.798	-0.006	1	5390	0.3922	
52 Cyclohexane	56		4.822				ND	
53 Carbon tetrachloride	117		4.944				ND	
55 Benzene	78	5.145	5.145	0.000	94	70291	1.83	
57 1,2-Dichloroethane	62		5.193				ND	
60 Trichloroethene	95	5.747	5.753	-0.006	35	2579	0.2551	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.893	5.893	0.000	91	21548	1.39	
63 1,2-Dichloropropane	63		5.978				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.684				ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824				ND	U
73 Toluene	92	6.982	6.982	0.000	95	42315	1.67	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.426				ND	
79 Tetrachloroethene	166		7.523				ND	
82 2-Hexanone	43		7.663				ND	U
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.418				ND	
88 Ethylbenzene	91	8.521	8.521	0.000	97	19314	0.4263	
90 m-Xylene & p-Xylene	106	8.637	8.649	-0.012	0	30789	1.67	
91 o-Xylene	106	9.062	9.069	-0.006	97	10209	0.5753	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105	9.452	9.463	-0.006	96	21237	0.4759	
98 1,1,2,2-Tetrachloroethane	83		9.829				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		2.25	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Operator ID: RF

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Worklist Smp#: 12

Client ID: DUPE

Purge Vol: 5.000 mL

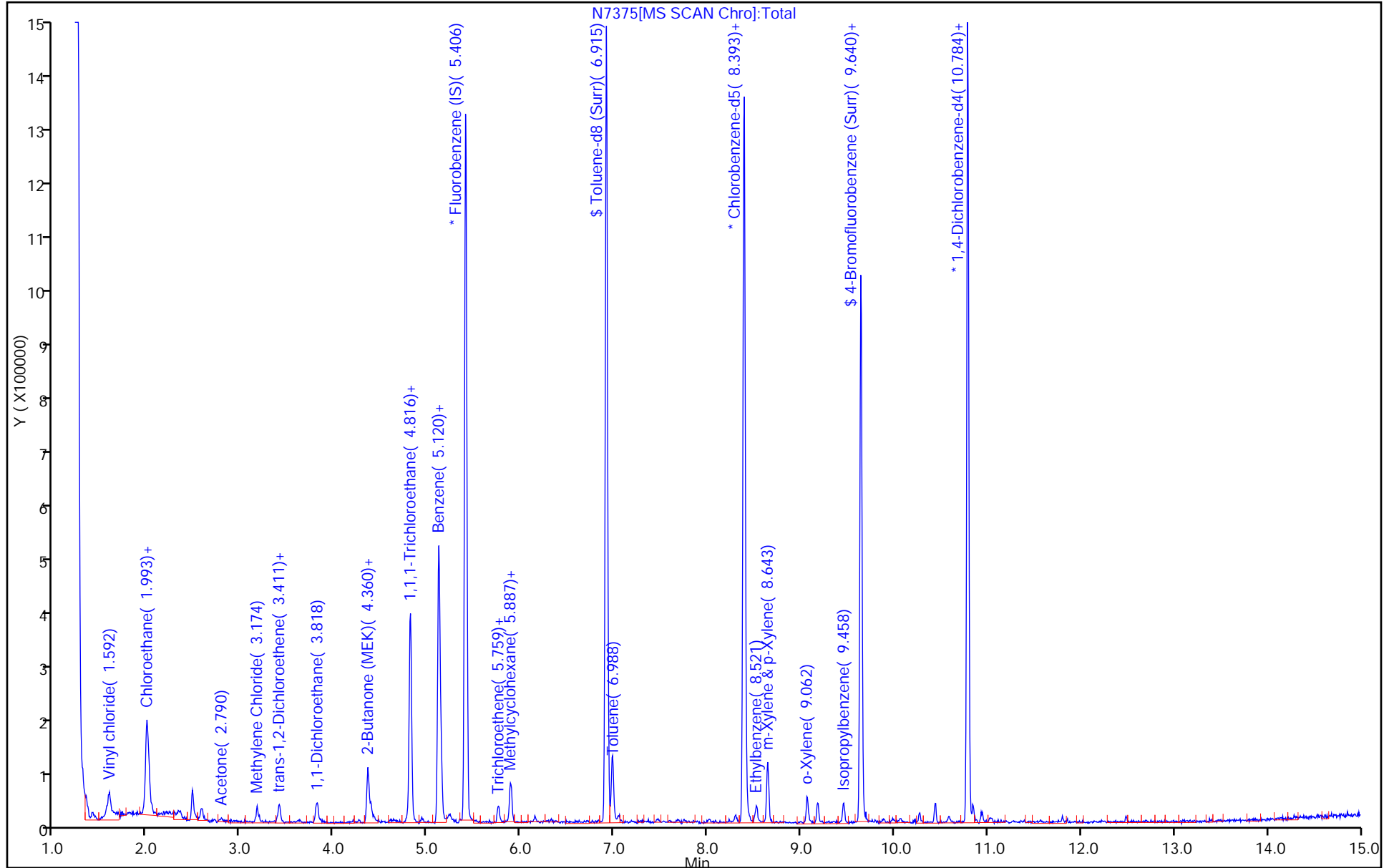
Dil. Factor: 5.0000

ALS Bottle#: 10

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

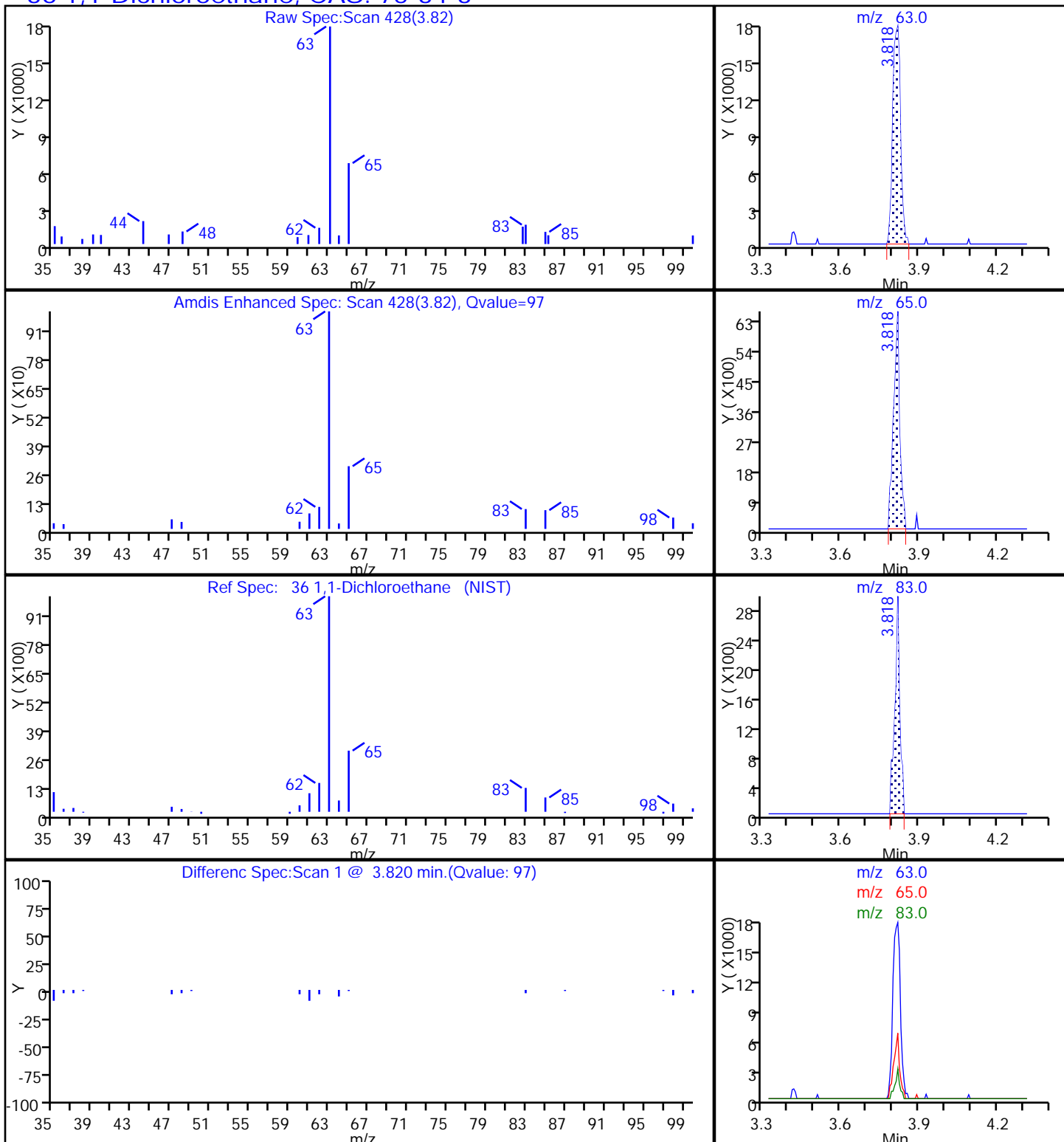
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

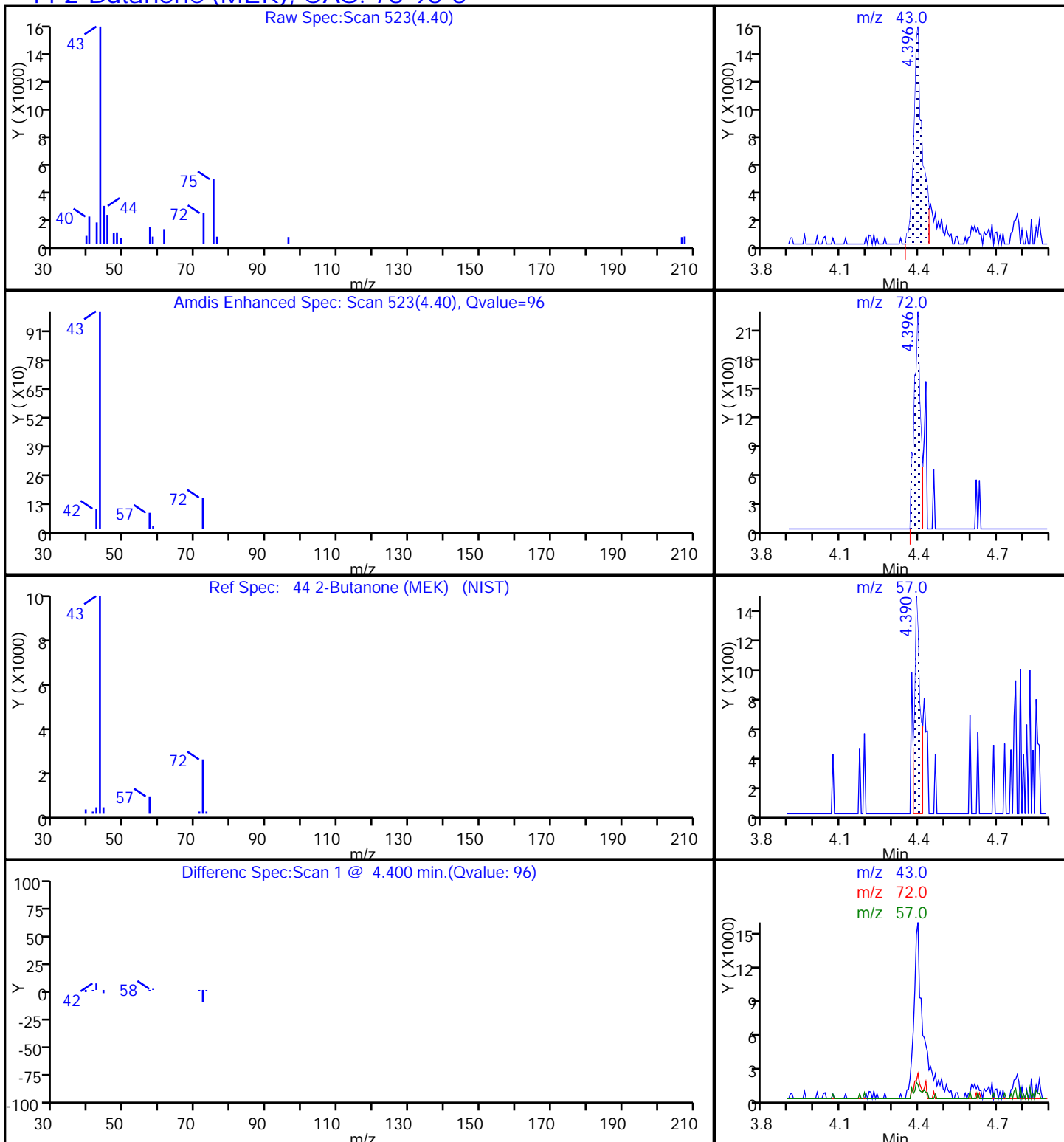
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

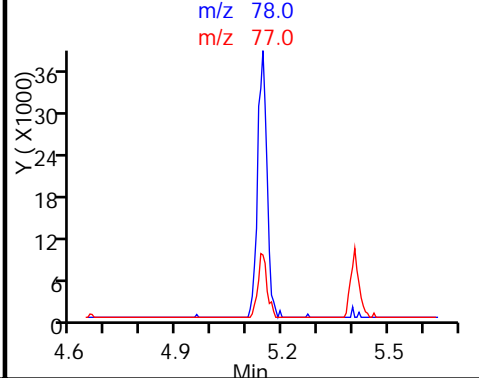
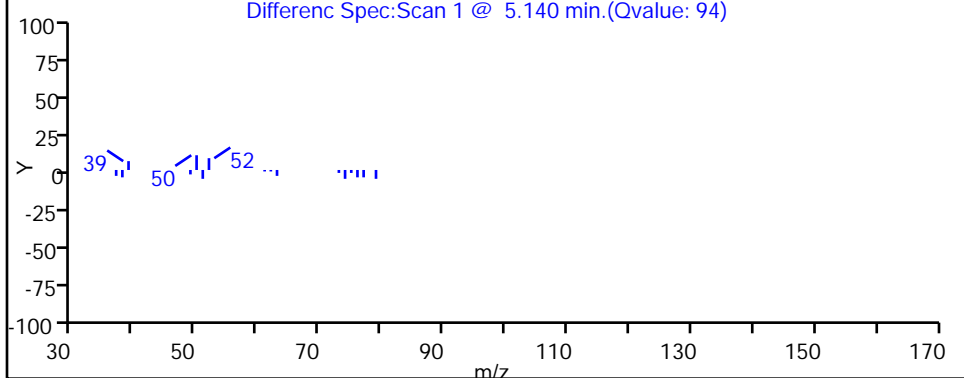
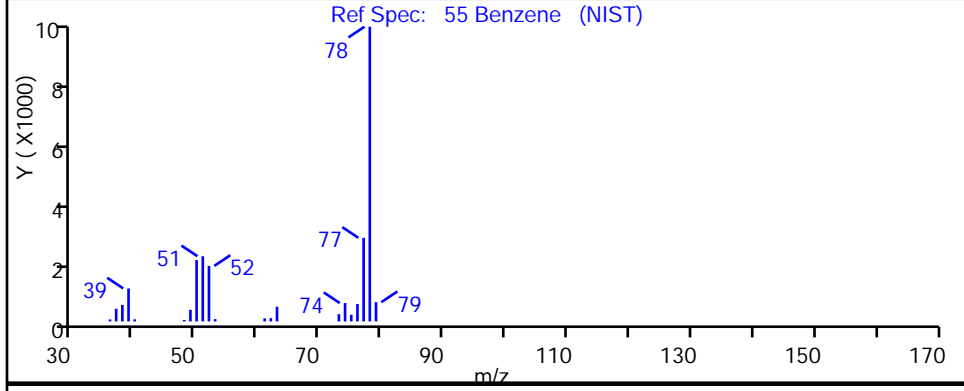
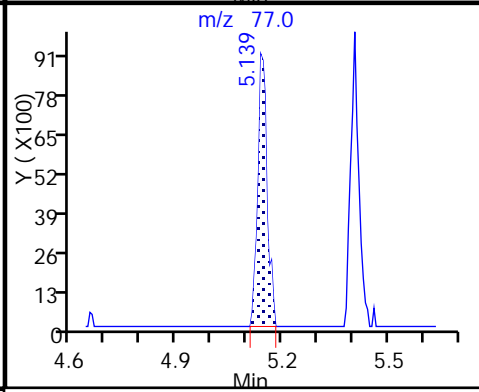
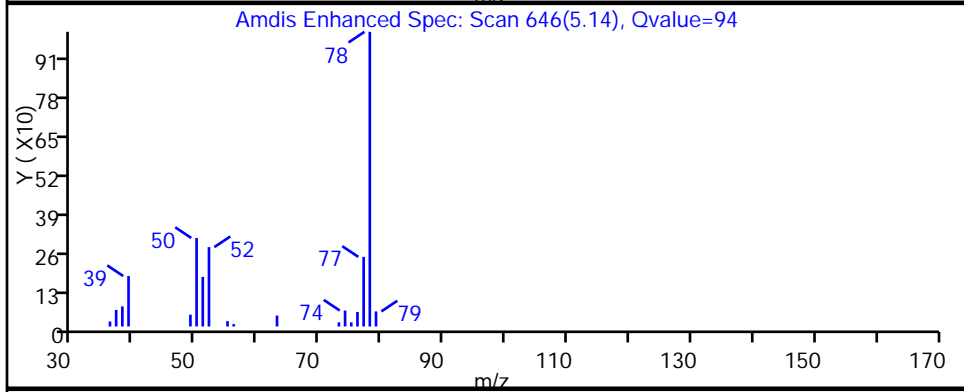
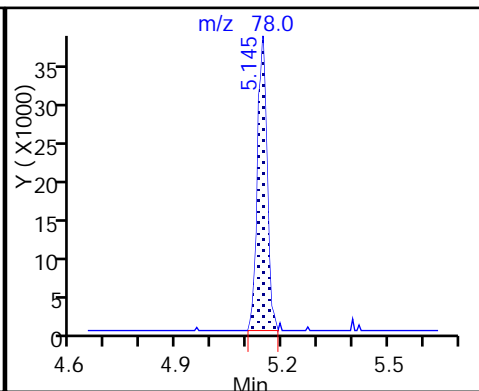
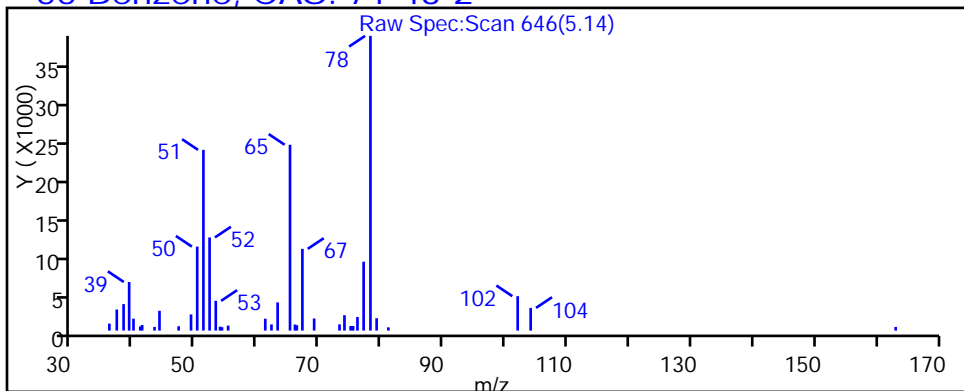
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

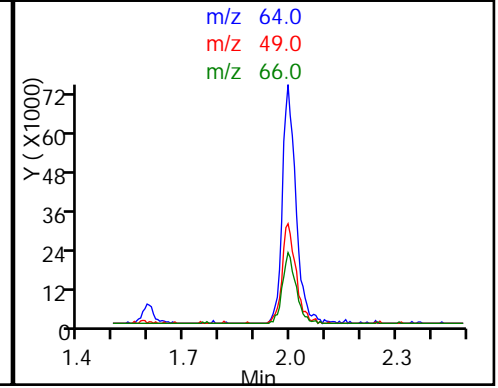
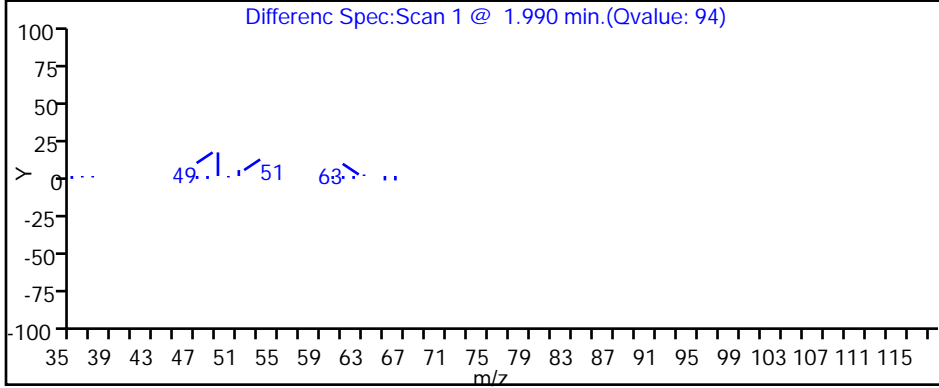
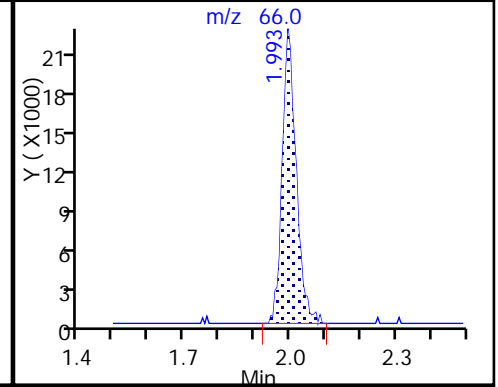
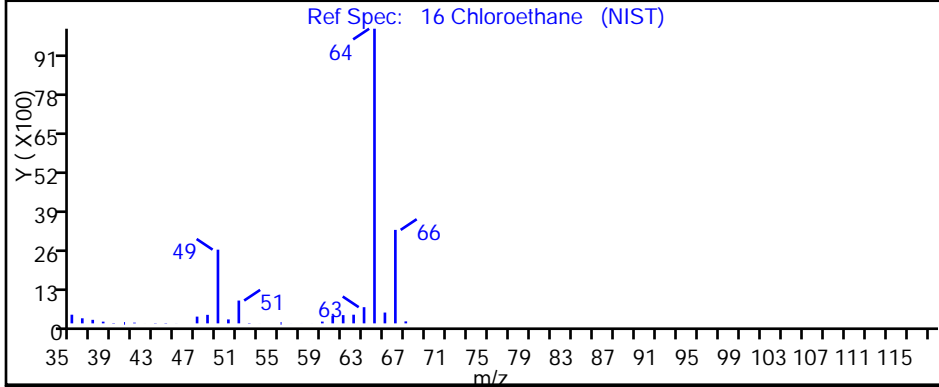
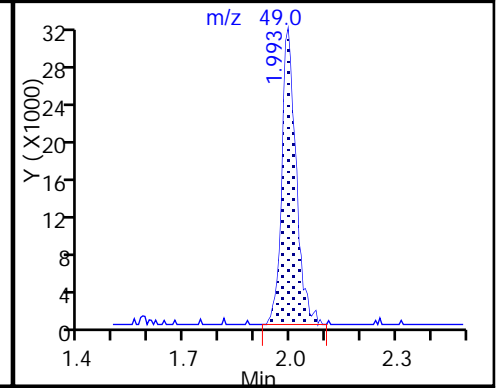
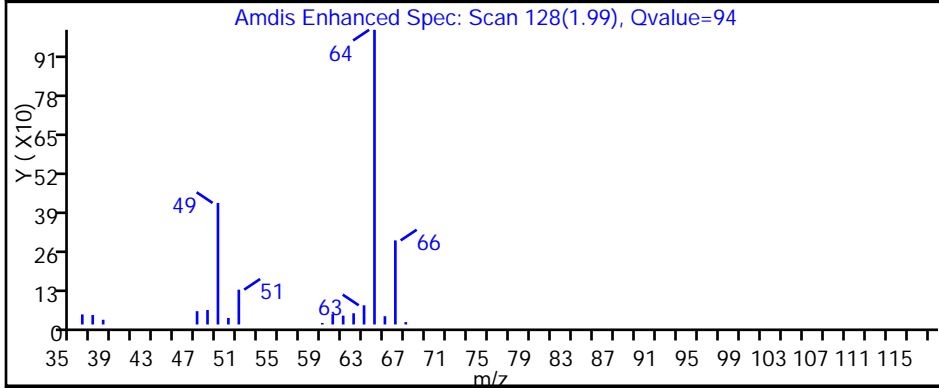
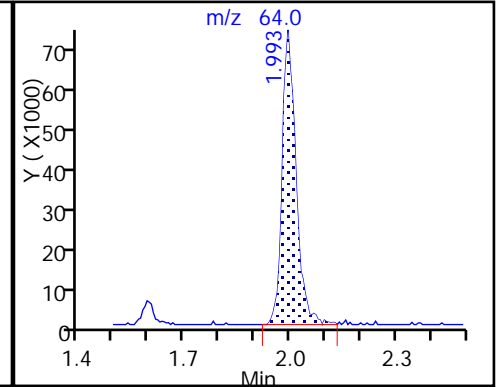
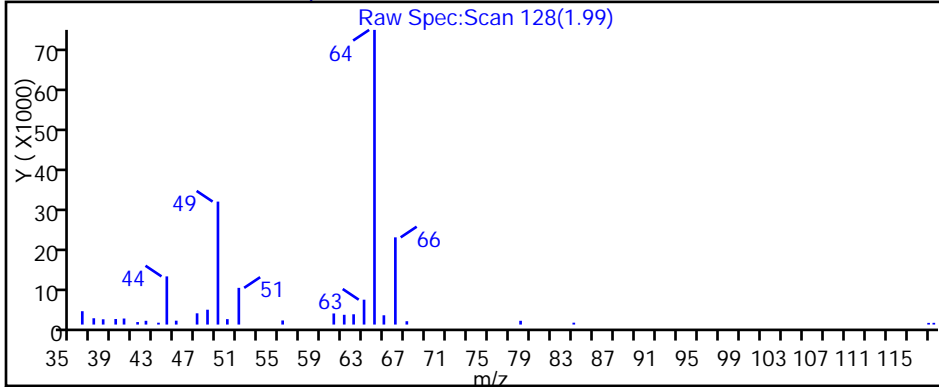
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

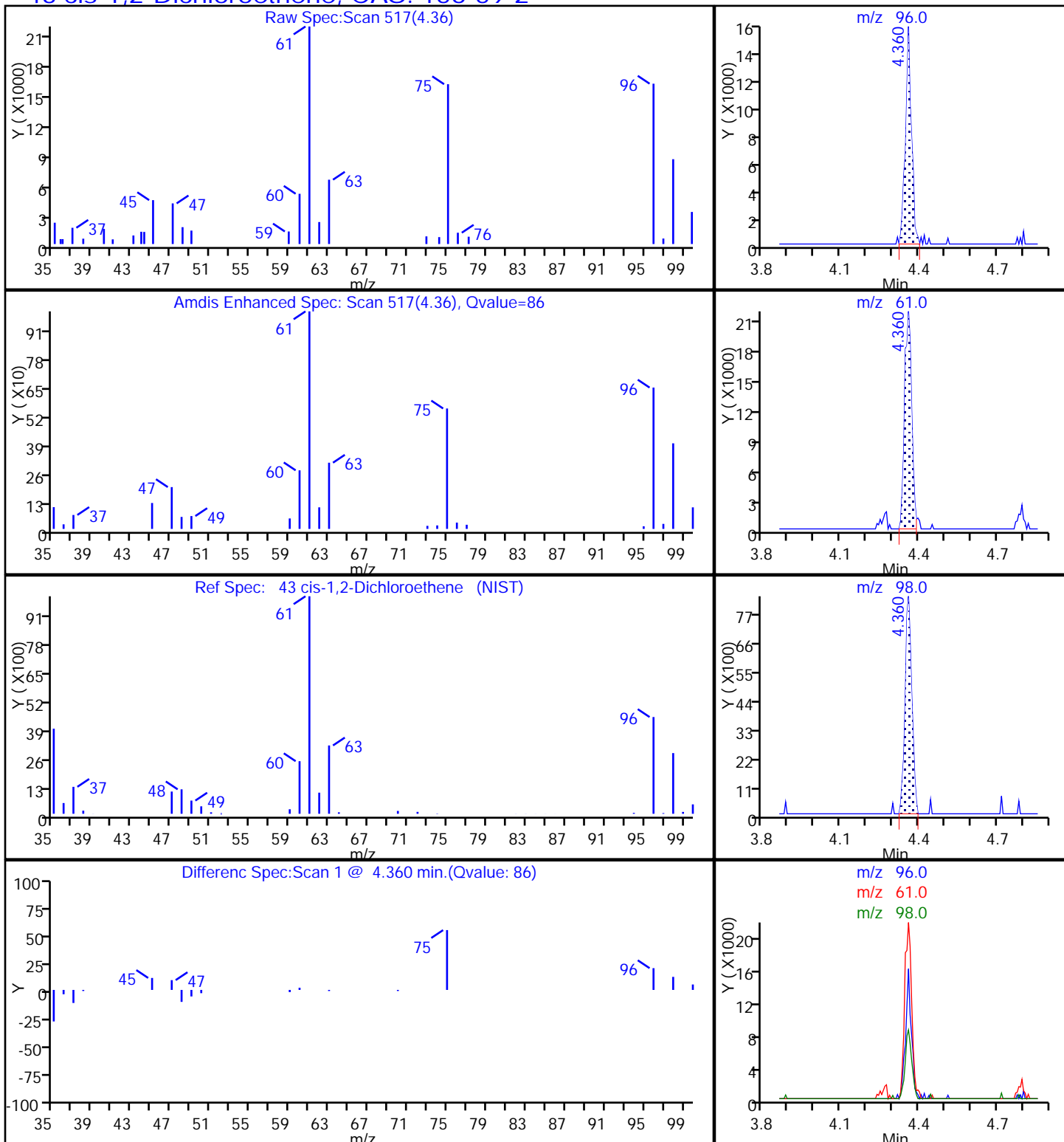
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

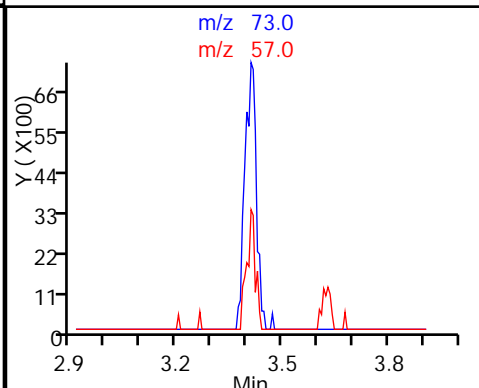
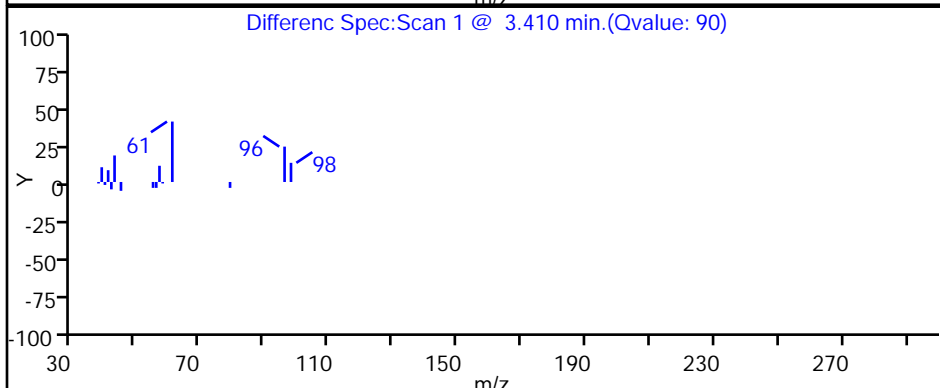
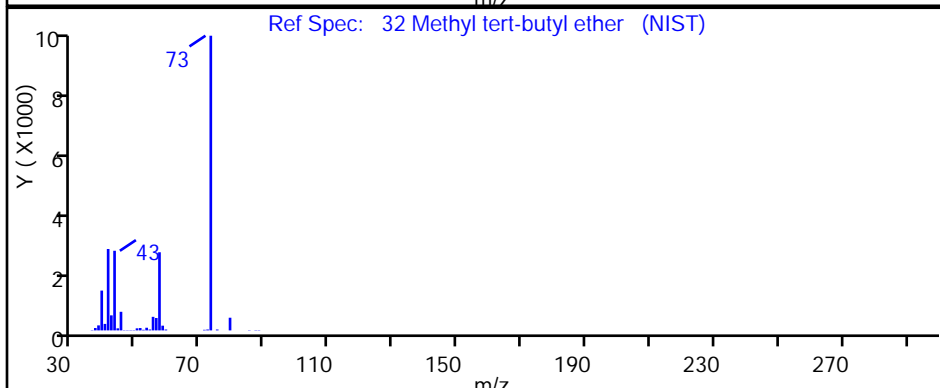
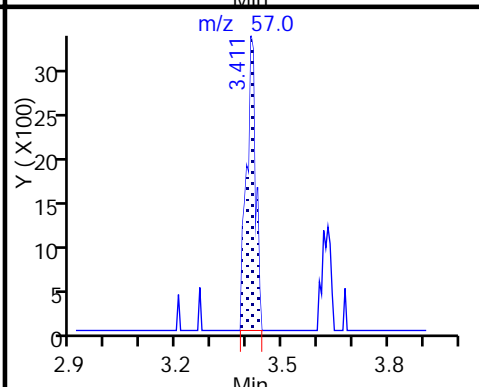
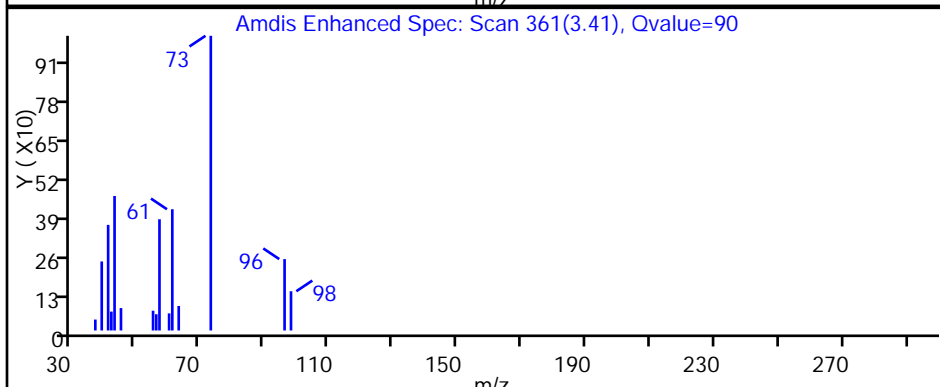
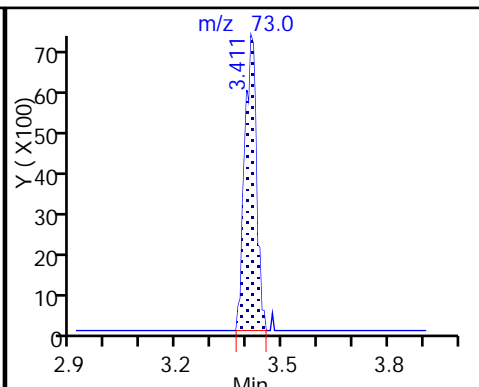
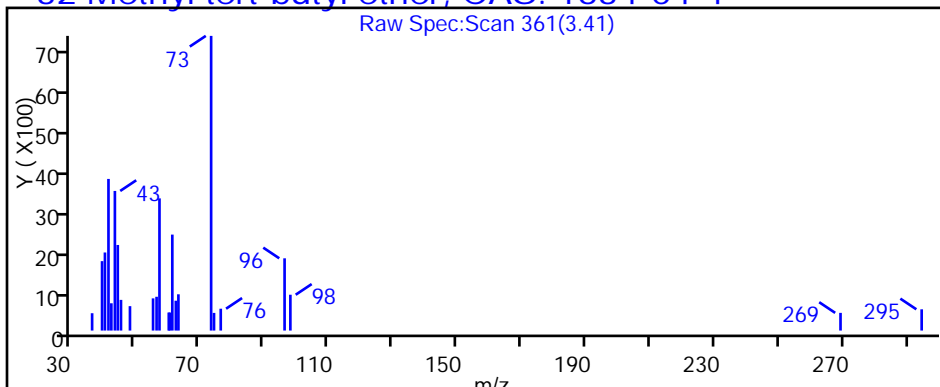
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

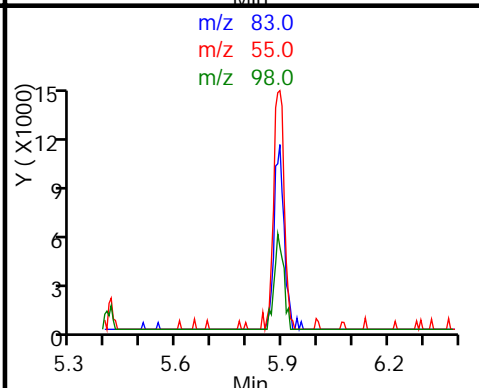
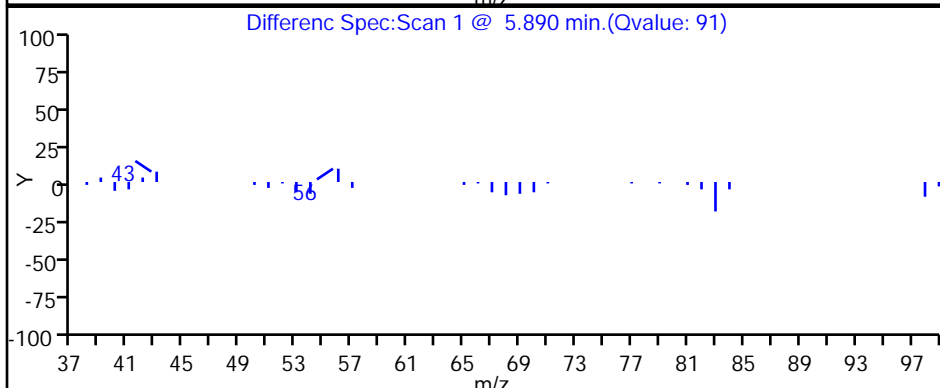
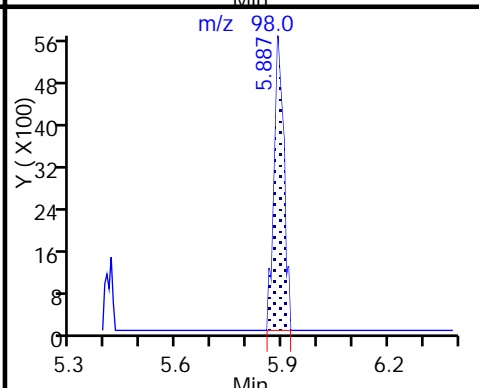
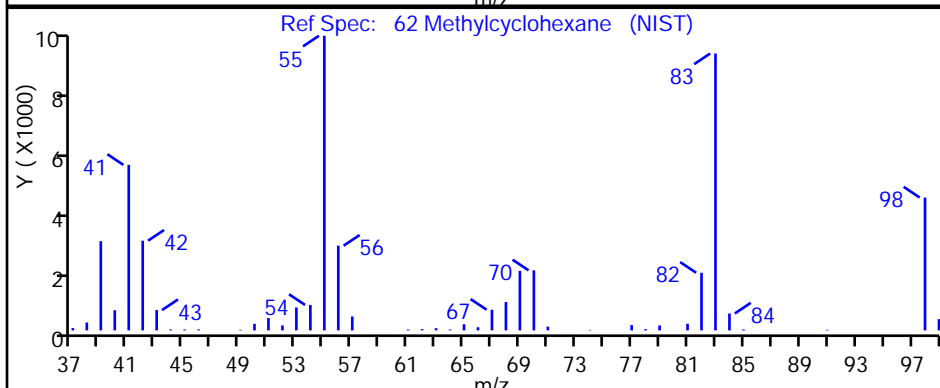
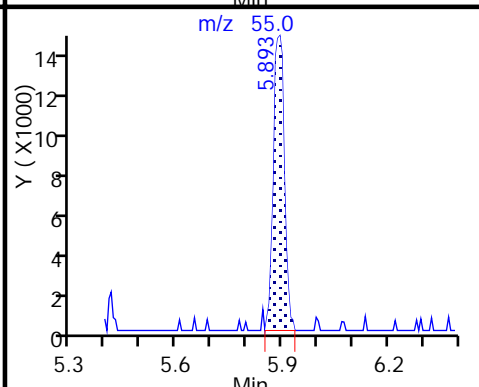
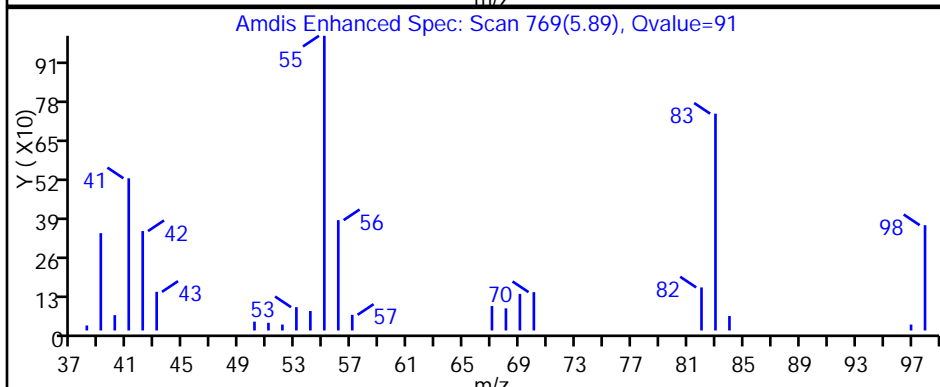
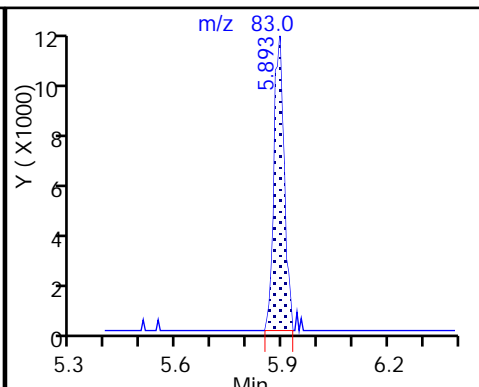
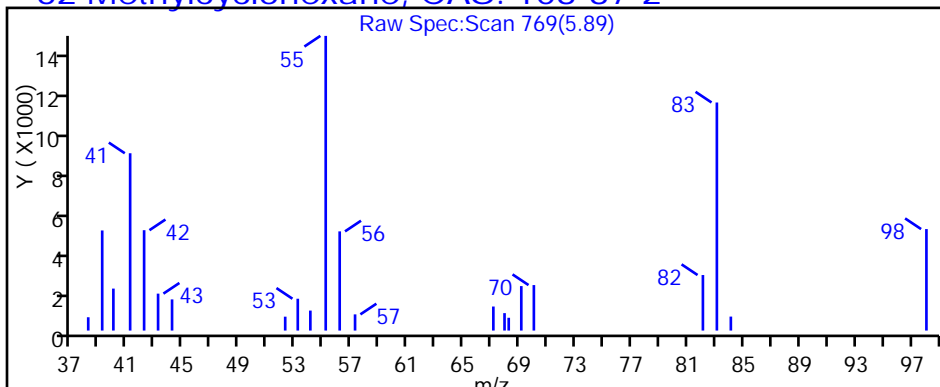
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

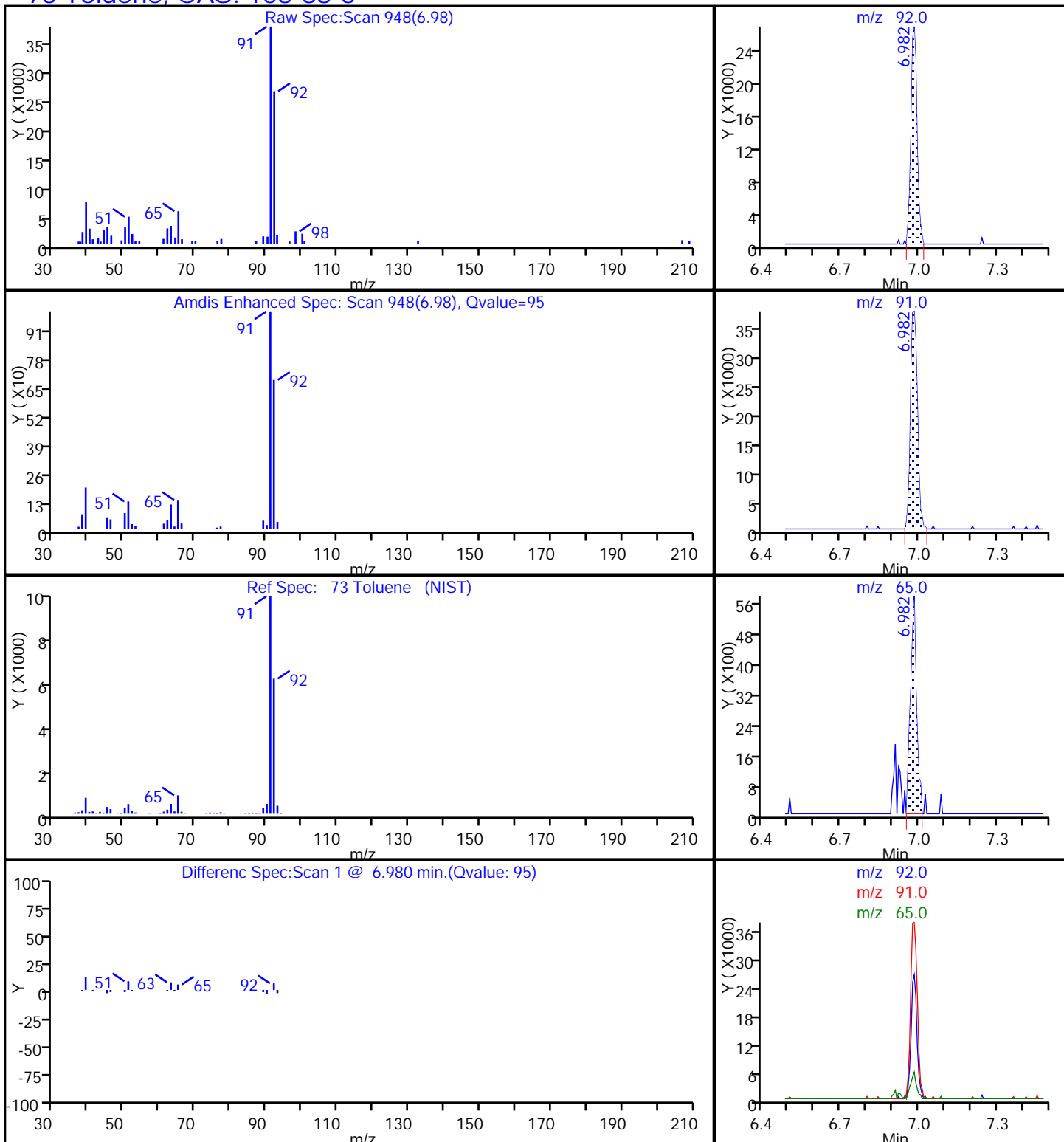
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

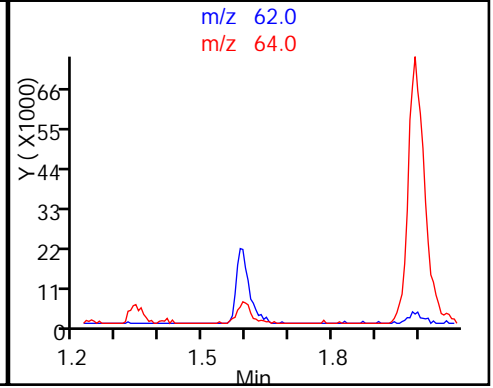
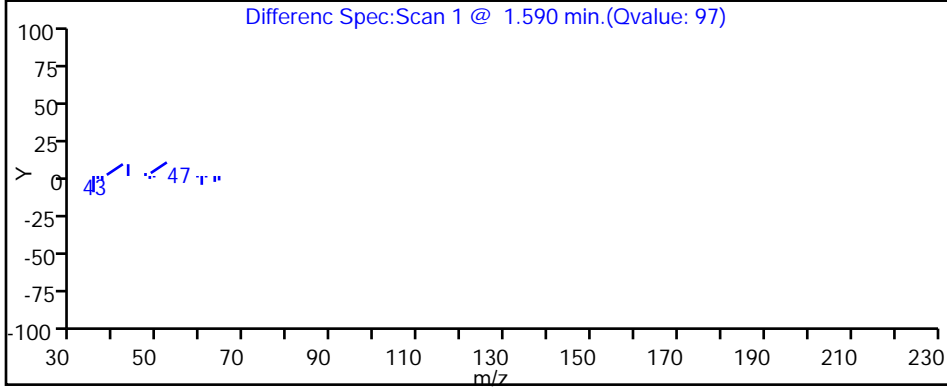
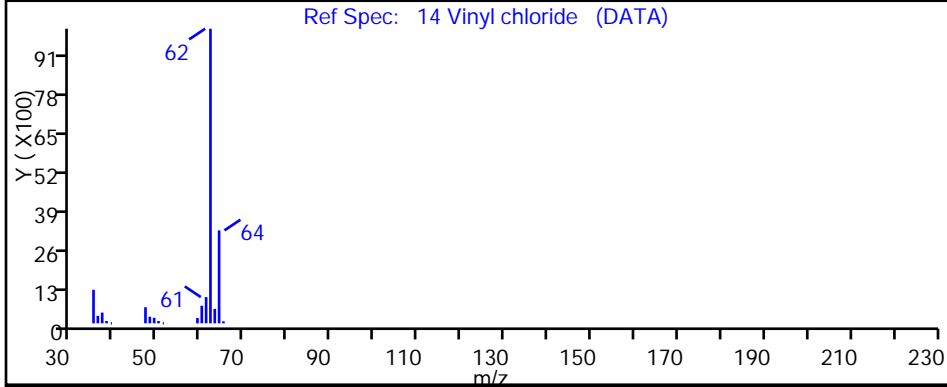
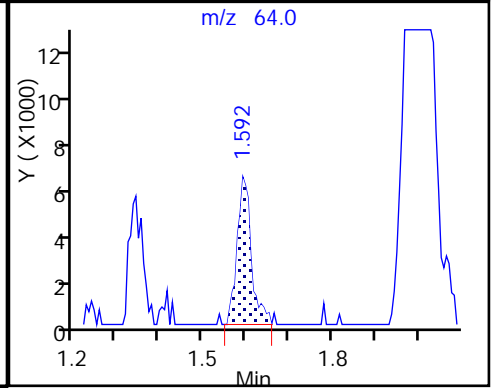
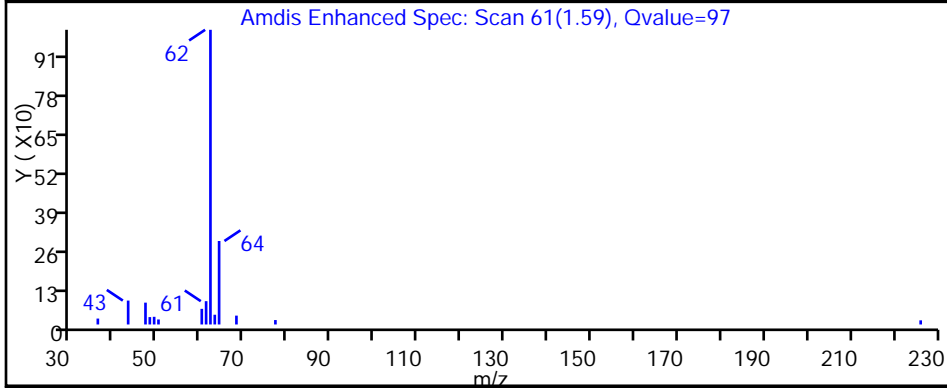
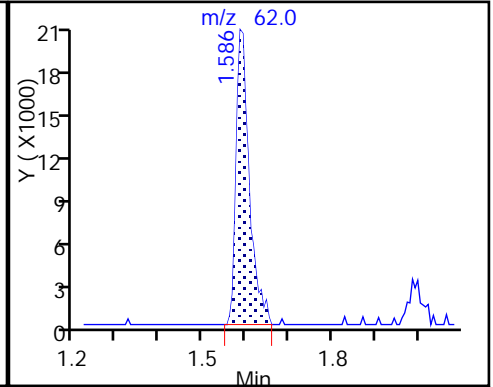
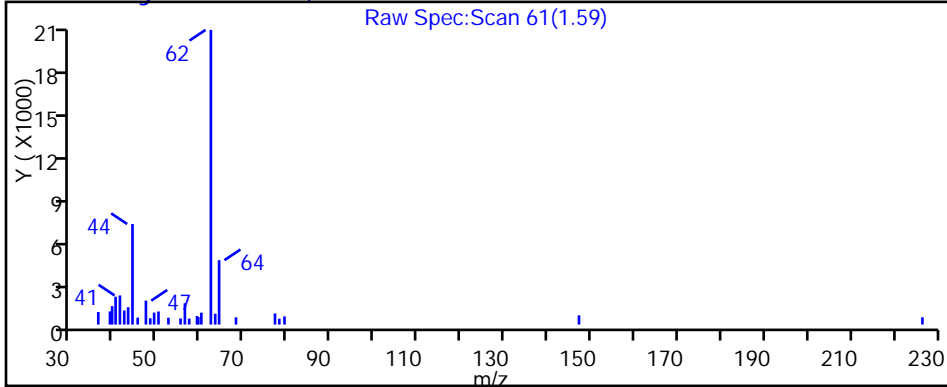
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

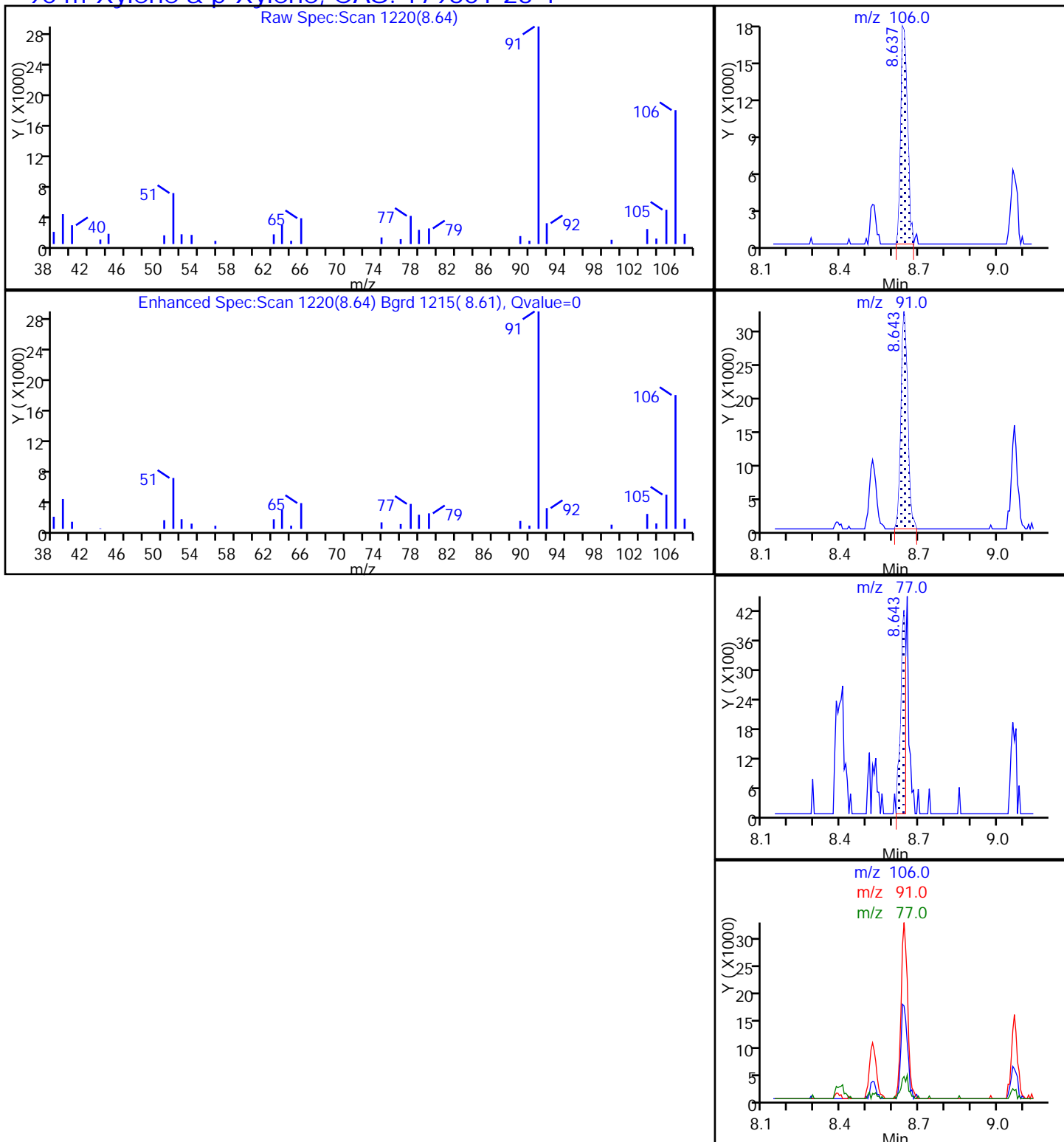
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

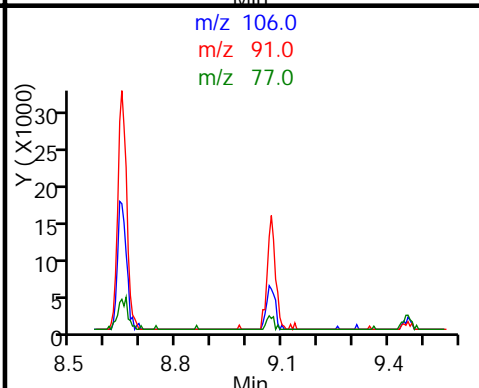
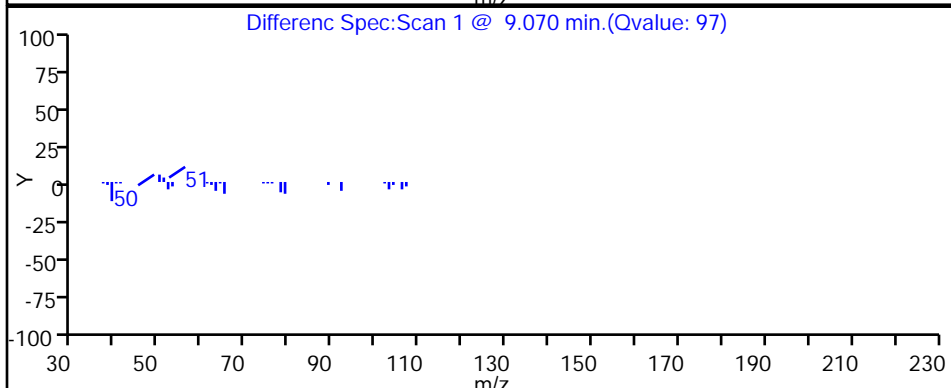
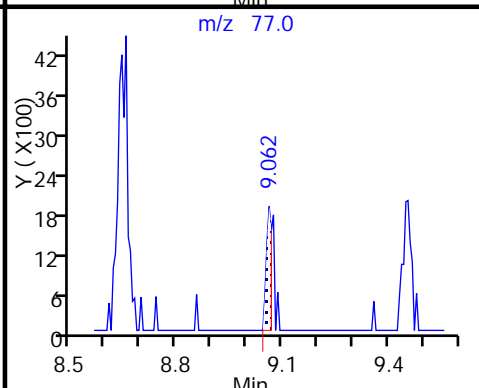
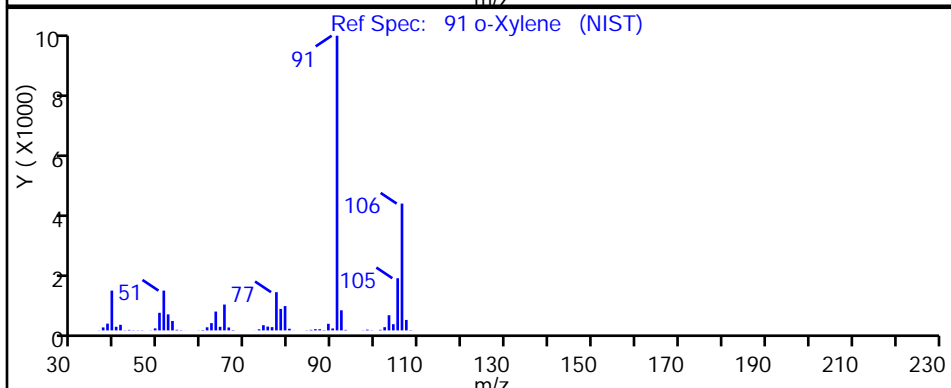
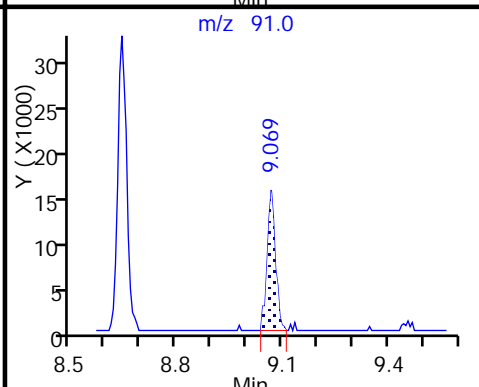
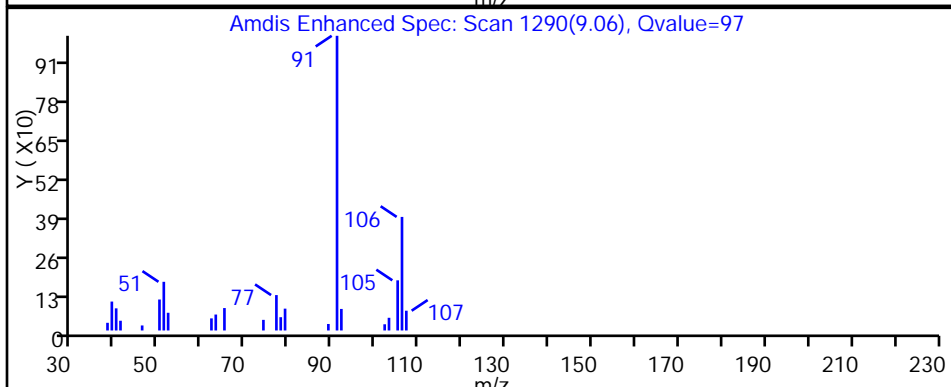
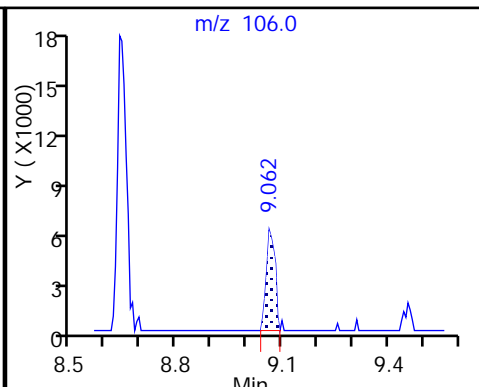
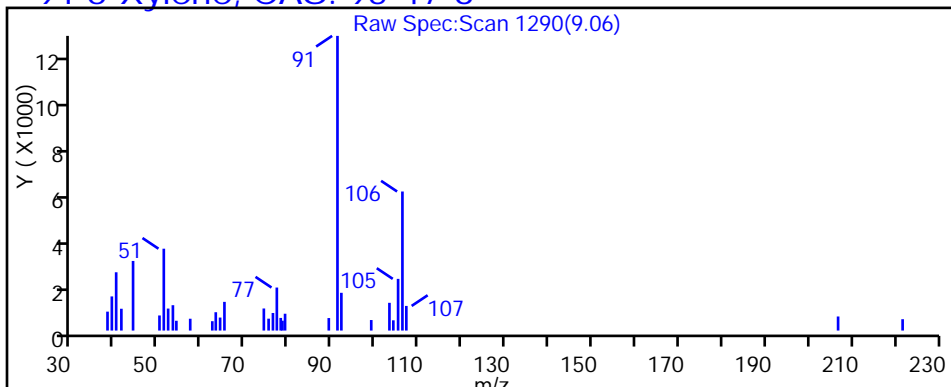
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D

Injection Date: 28-Feb-2018 12:31:30

Instrument ID: HP5973N

Lims ID: 480-131737-C-7

Lab Sample ID: 480-131737-7

Client ID: DUPE

Operator ID: RF

ALS Bottle#: 10 Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: N-8260

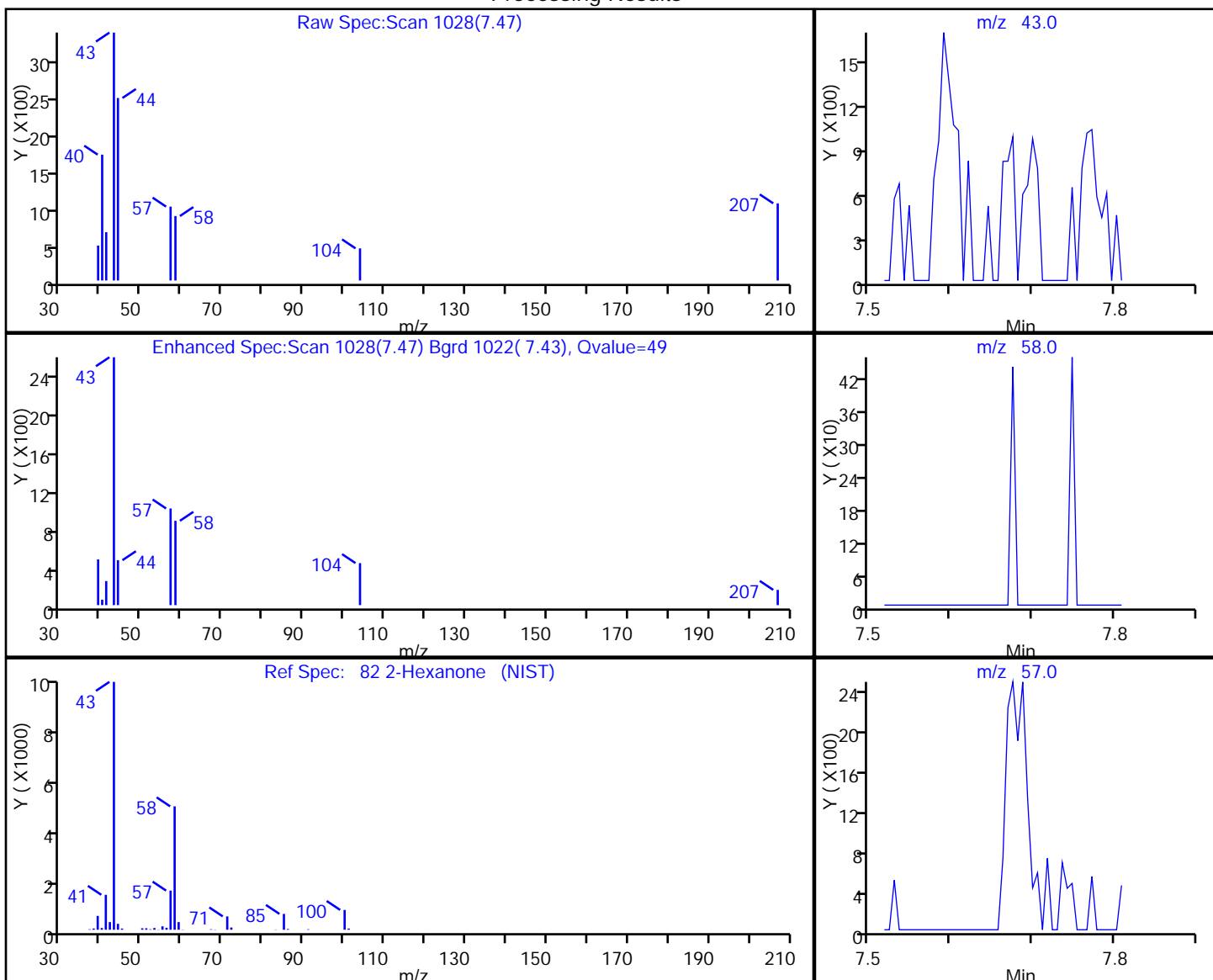
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.47	43.00	4591	0.289768
7.47	58.00	830	
7.47	57.00	929	

Reviewer: farrellr, 01-Mar-2018 09:42:36

Audit Action: Marked Compound Undetected

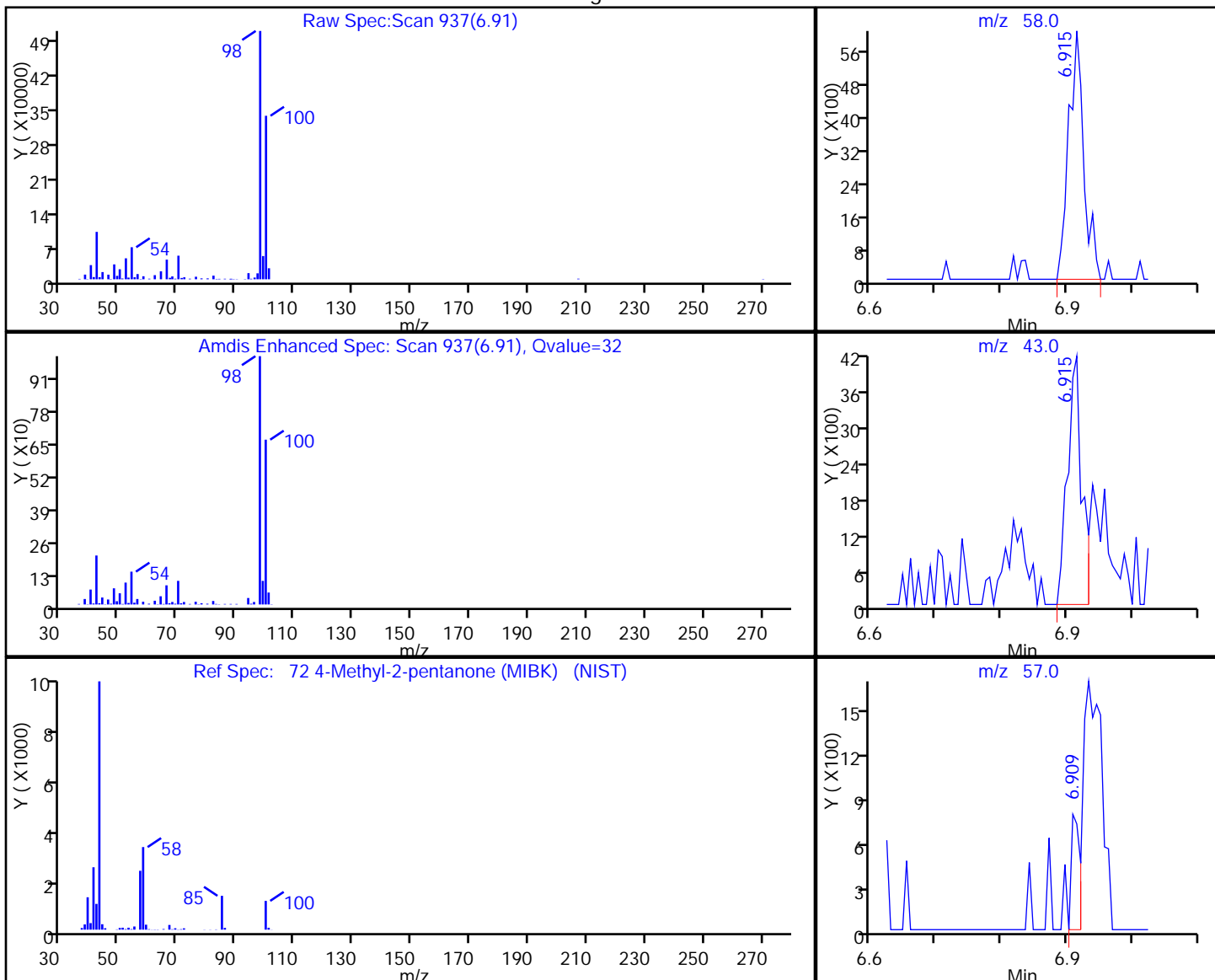
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7375.D
 Injection Date: 28-Feb-2018 12:31:30 Instrument ID: HP5973N
 Lims ID: 480-131737-C-7 Lab Sample ID: 480-131737-7
 Client ID: DUPE
 Operator ID: RF ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.91	58.00	9828	1.346216
6.91	43.00	6368	
6.91	57.00	692	

Reviewer: farrellr, 01-Mar-2018 09:42:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: N7304.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	29		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	21		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	74		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	17		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	37		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: N7304.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	* F1	25	13
1634-04-4	Methyl tert-butyl ether	42		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	15		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	47		10	9.0
1330-20-7	Xylenes, Total	250		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: N7304.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L
 Number TICs Found: 3 TIC Result Total: 190

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.20	31	T J	
611-14-3	Benzene, 1-ethyl-2-methyl-	10.44	98	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.86	61	T J N	95%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
 Lims ID: 480-131737-F-8
 Client ID: LBA-SBW-16
 Sample Type: Client
 Inject. Date: 25-Feb-2018 14:47:30 ALS Bottle#: 7 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-8
 Misc. Info.: 480-0069477-015
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 09:54:14 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: moffata

Date: 26-Feb-2018 09:58:51

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.400	5.406	-0.006	97	200034	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	90	721031	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	95	398444	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	93	224984	25.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.120	-0.006	0	282697	22.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	905392	25.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.639	-0.006	90	293757	26.1	
11 Dichlorodifluoromethane	85		1.318				ND	U
13 Chloromethane	50		1.482				ND	
14 Vinyl chloride	62	1.580	1.574	0.006	98	83050	4.70	
15 Bromomethane	94		1.859				ND	
16 Chloroethane	64		1.951				ND	U
18 Trichlorofluoromethane	101		2.170				ND	
22 1,1-Dichloroethene	96		2.669				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.675				ND	
23 Acetone	43		2.790				ND	U
25 Carbon disulfide	76		2.863				ND	
28 Methyl acetate	43		3.088				ND	
30 Methylene Chloride	84		3.167				ND	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	92	142972	4.17	
33 trans-1,2-Dichloroethene	96		3.405				ND	U
36 1,1-Dichloroethane	63	3.806	3.806	0.000	97	66671	2.90	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	87	87659	7.37	
44 2-Butanone (MEK)	43		4.390				ND	
50 Chloroform	83		4.664				ND	
51 1,1,1-Trichloroethane	97		4.792				ND	
52 Cyclohexane	56		4.810				ND	U
53 Carbon tetrachloride	117		4.932				ND	
55 Benzene	78	5.132	5.138	-0.006	95	89491	2.10	
57 1,2-Dichloroethane	62		5.187				ND	
60 Trichloroethene	95		5.747				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.887				ND	
63 1,2-Dichloropropane	63		5.972				ND	
67 Dichlorobromomethane	83		6.258				ND	
71 cis-1,3-Dichloropropene	75		6.678				ND	
72 4-Methyl-2-pentanone (MIBK)	58	6.818	6.819	-0.006	93	2697	0.3479	
73 Toluene	92	6.976	6.977	-0.006	97	39923	1.48	
75 trans-1,3-Dichloropropene	75		7.243				ND	
78 1,1,2-Trichloroethane	83		7.432				ND	
79 Tetrachloroethene	166		7.517				ND	
82 2-Hexanone	43		7.663				ND	U
83 Chlorodibromomethane	129		7.827				ND	
84 Ethylene Dibromide	107		7.931				ND	
85 Chlorobenzene	112		8.424				ND	
88 Ethylbenzene	91	8.521	8.509	0.000	98	80612	1.68	
90 m-Xylene & p-Xylene	106	8.643	8.636	0.000	0	467293	23.9	
91 o-Xylene	106	9.062	9.062	-0.006	95	24057	1.28	
92 Styrene	104		9.093				ND	
93 Bromoform	173		9.324				ND	
95 Isopropylbenzene	105	9.458	9.453	0.000	96	188130	3.68	
98 1,1,2,2-Tetrachloroethane	83		9.835				ND	
110 1,3-Dichlorobenzene	146		10.723				ND	
113 1,4-Dichlorobenzene	146		10.808				ND	
116 1,2-Dichlorobenzene	146		11.161				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879				ND	
119 1,2,4-Trichlorobenzene	180		12.573				ND	
S 126 Xylenes, Total	1				0		25.2	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
 Lims ID: 480-131737-F-8
 Client ID: LBA-SBW-16
 Sample Type: Client
 Inject. Date: 25-Feb-2018 14:47:30 ALS Bottle#: 7 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-8
 Misc. Info.: 480-0069477-015
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 09:54:14 Calib Date: 31-Jan-2018 23:35:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028
 First Level Reviewer: moffata Date: 26-Feb-2018 09:58:51

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
Unknown								
2.200	307780	3.10	147					
611-14-3	Benzene, 1-ethyl-2-methyl-							
10.437	988165	9.83	3	94	119293	C9H12	120	
108-67-8	Benzene, 1,3,5-trimethyl-							
10.857	612419	6.09	3	95	119302	C9H12	120	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 147 Fluorobenzene (IS)	5.406	2485949	25.0
* 3 1,4-Dichlorobenzene-d4	10.784	2514406	25.0

QC Flag Legend

Processing Flags

Reagents:

N_8260_Surr_00316 Amount Added: 1.00 Units: uL Run Reagent
 N 8260 IS_00105 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Worklist Smp#: 15

Client ID: LBA-SBW-16

Purge Vol: 5.000 mL

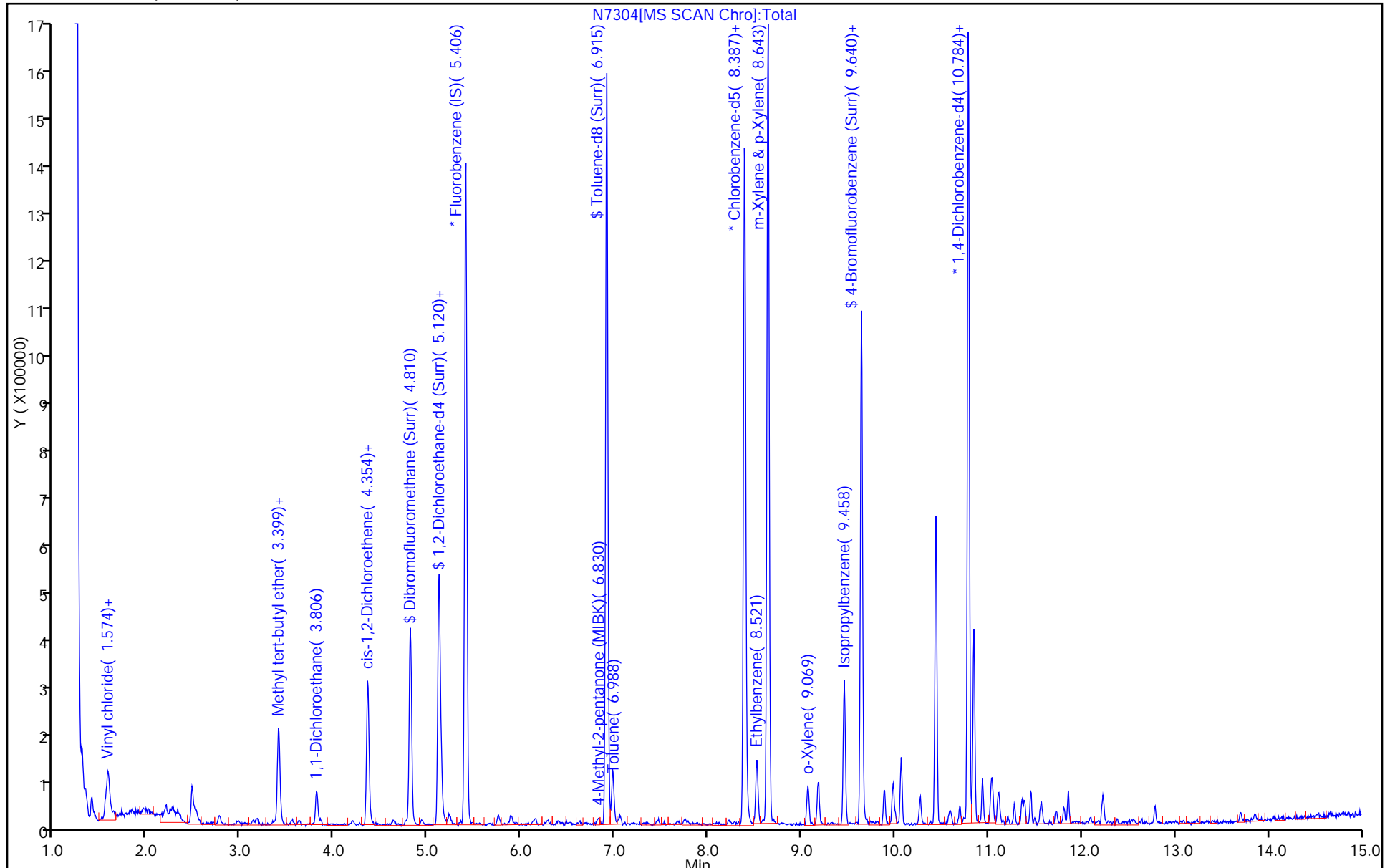
Dil. Factor: 10.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

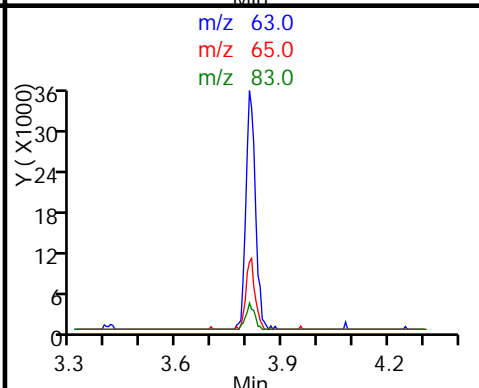
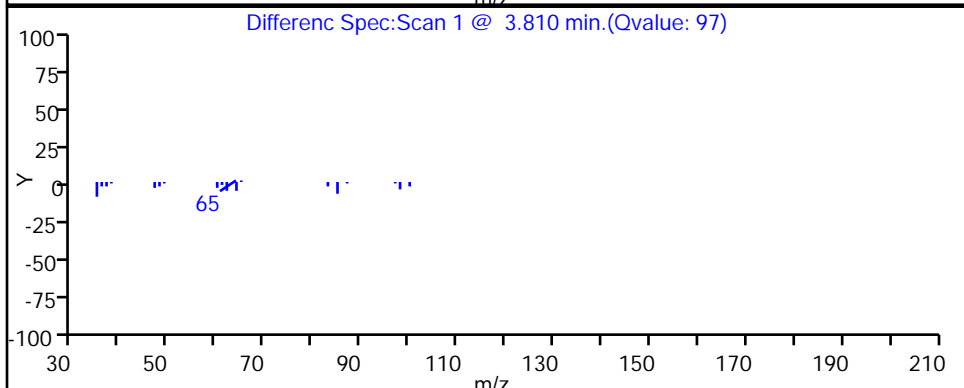
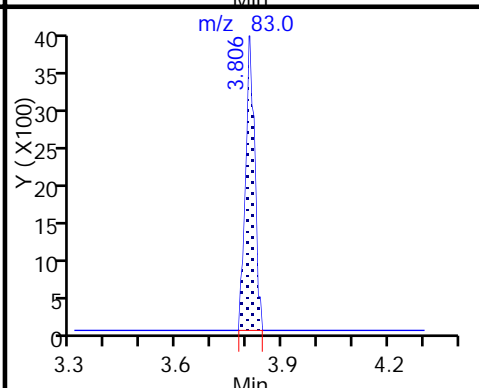
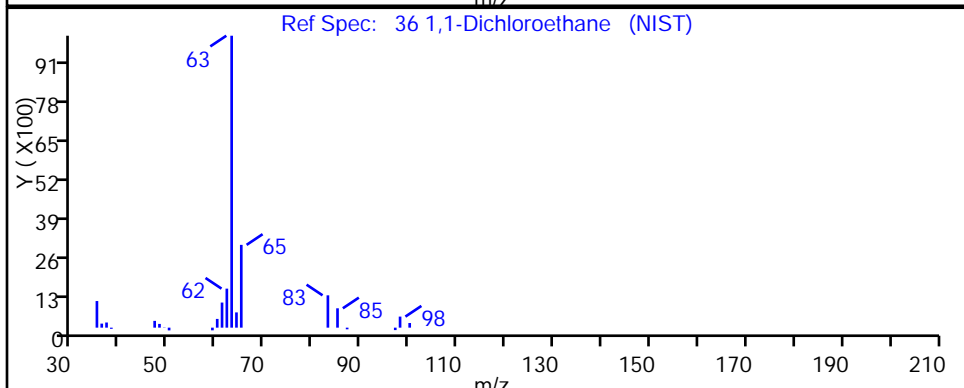
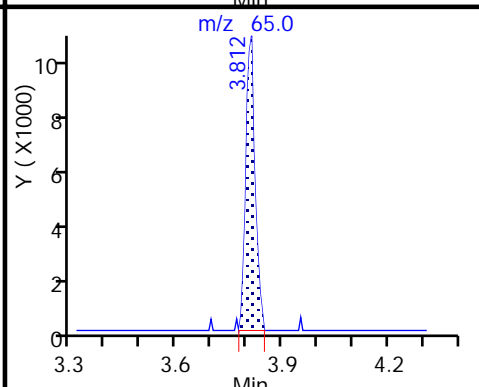
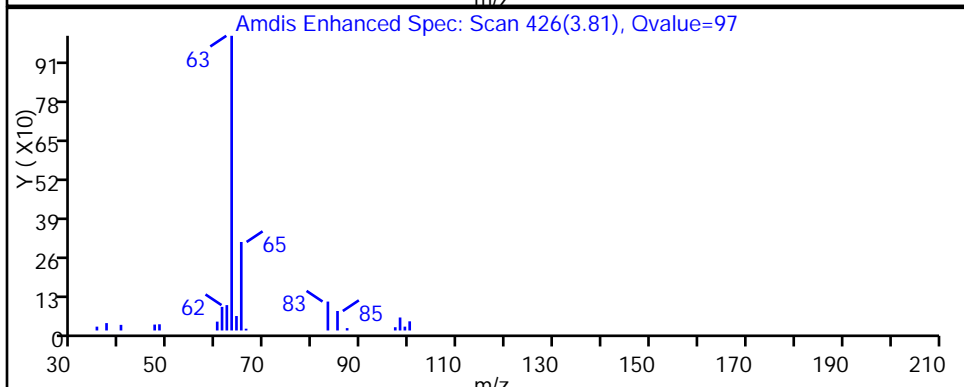
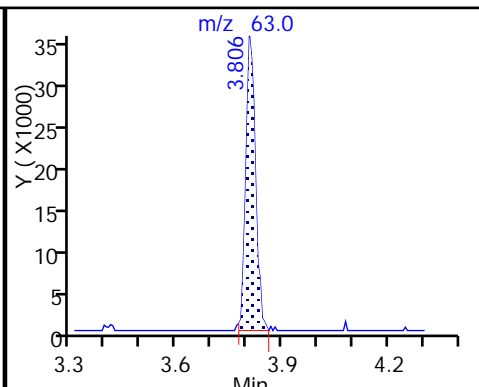
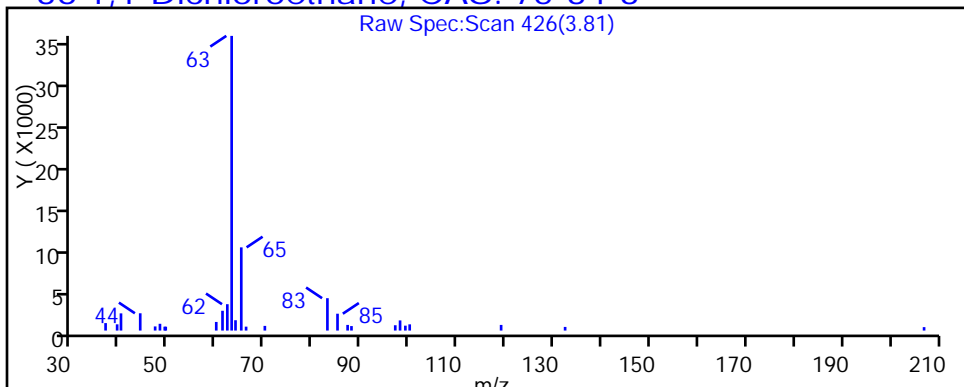
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

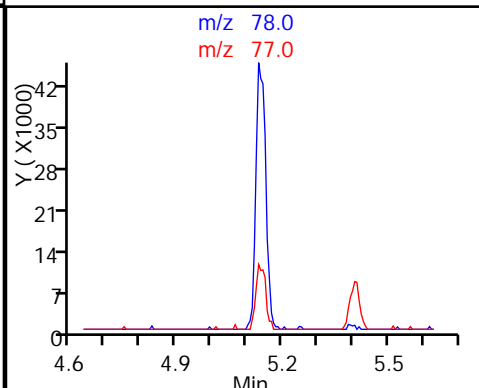
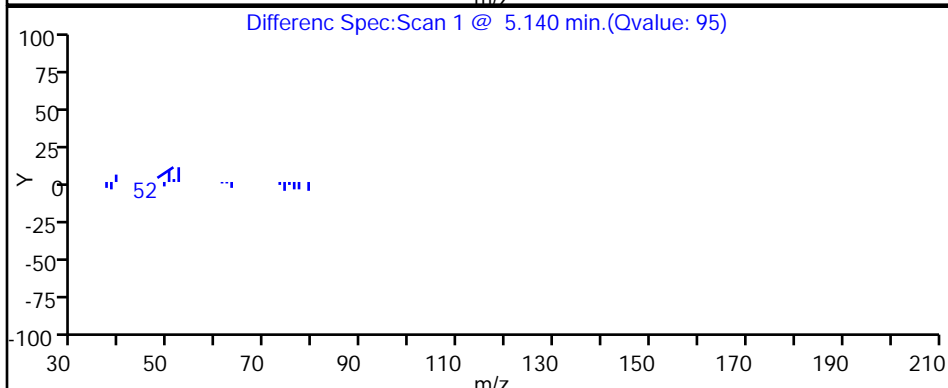
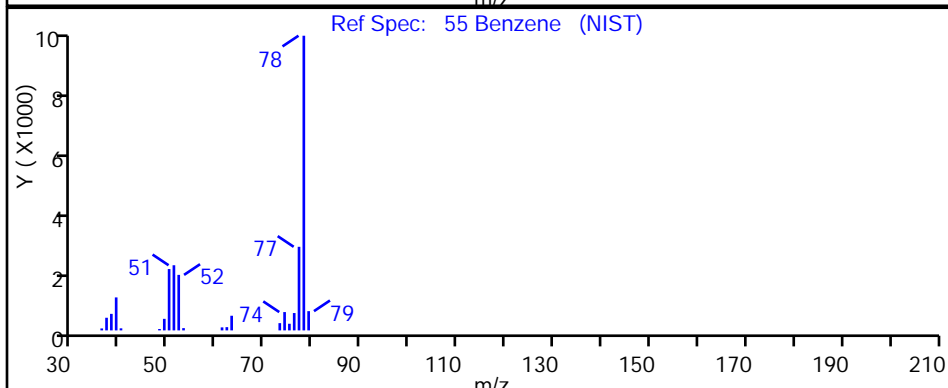
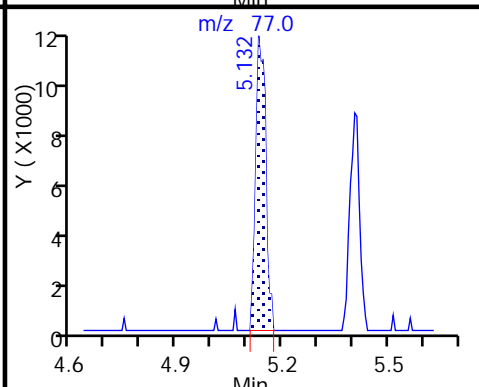
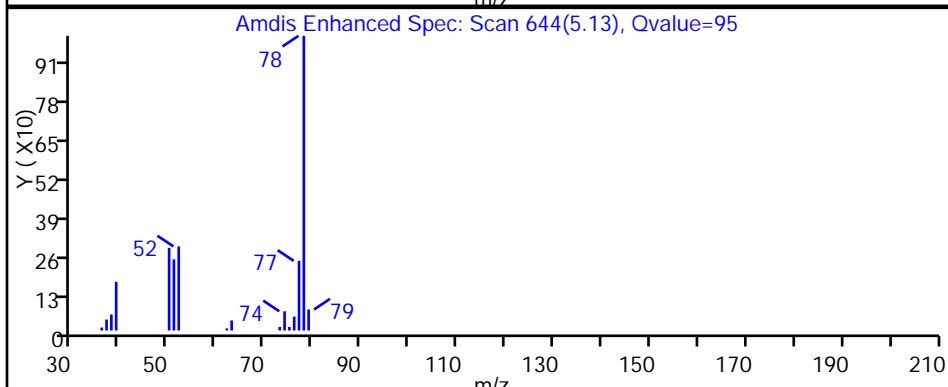
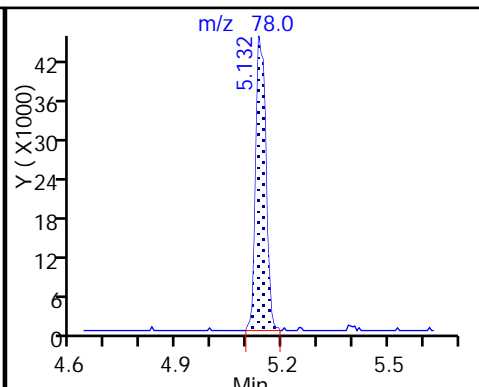
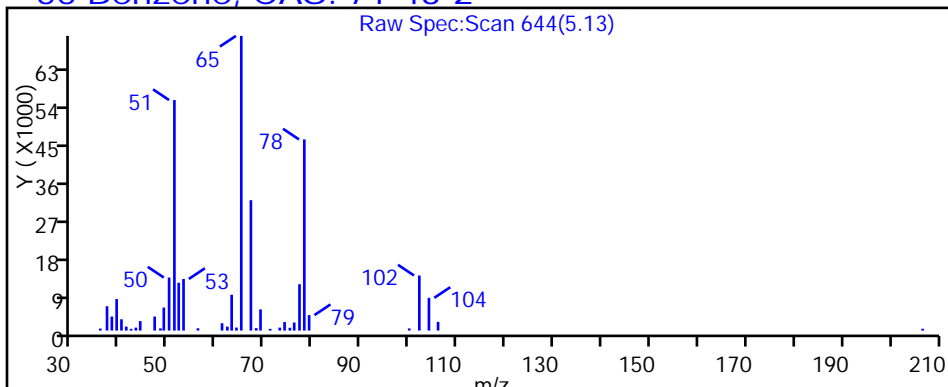
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

55 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

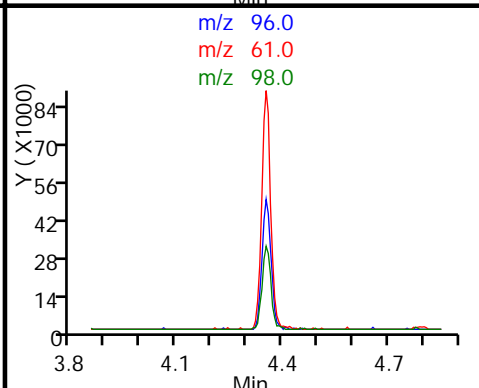
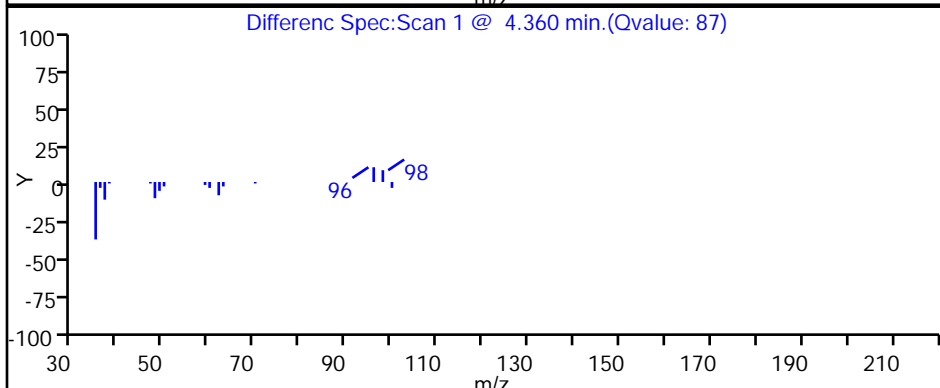
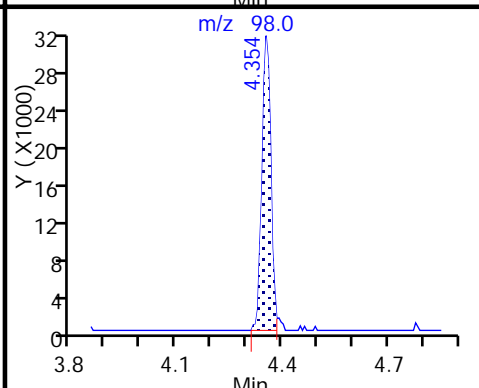
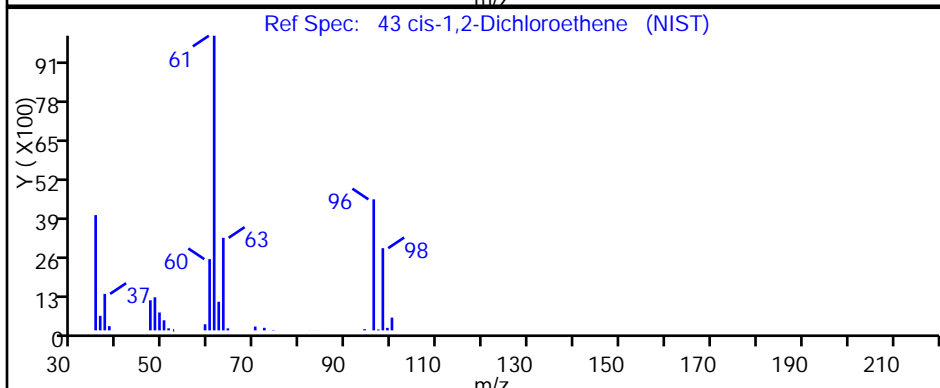
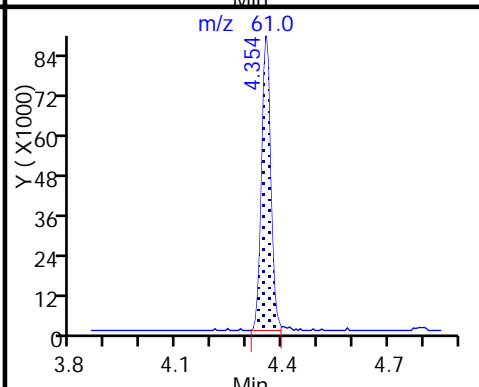
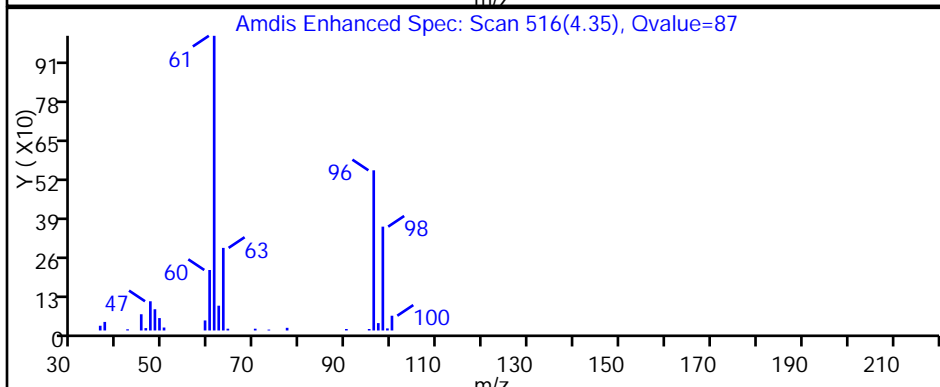
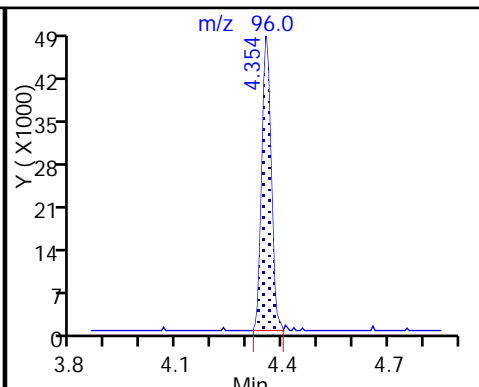
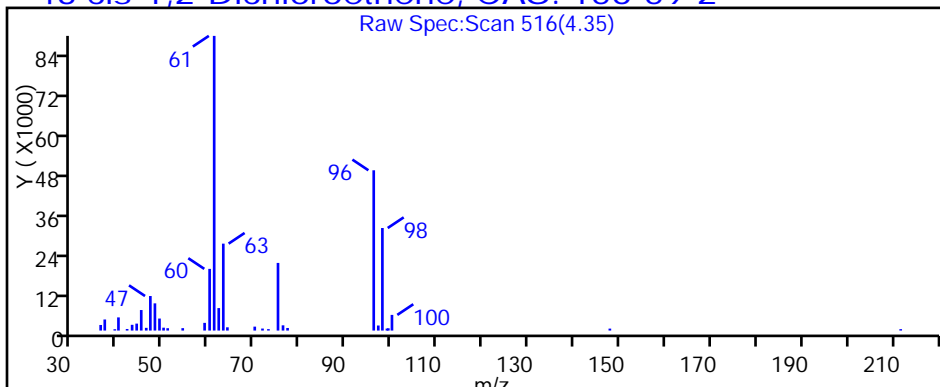
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

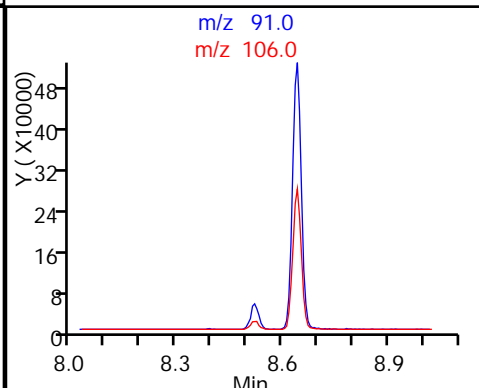
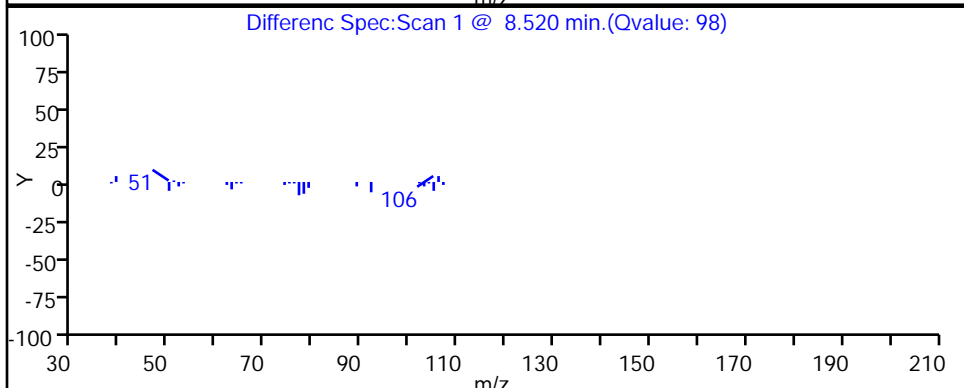
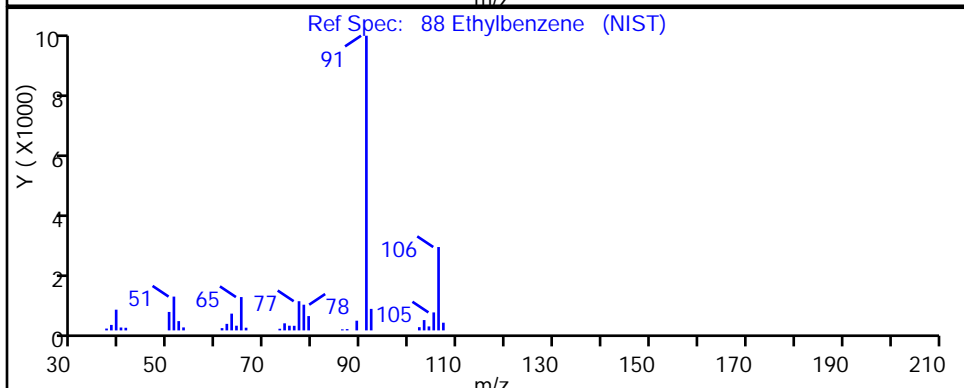
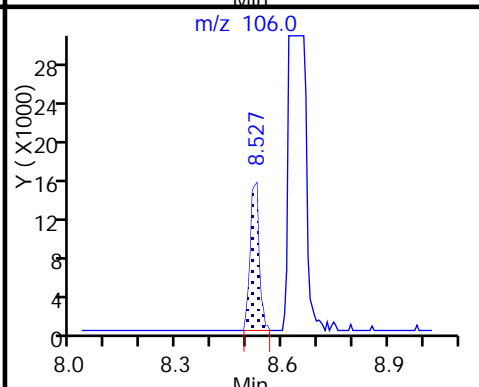
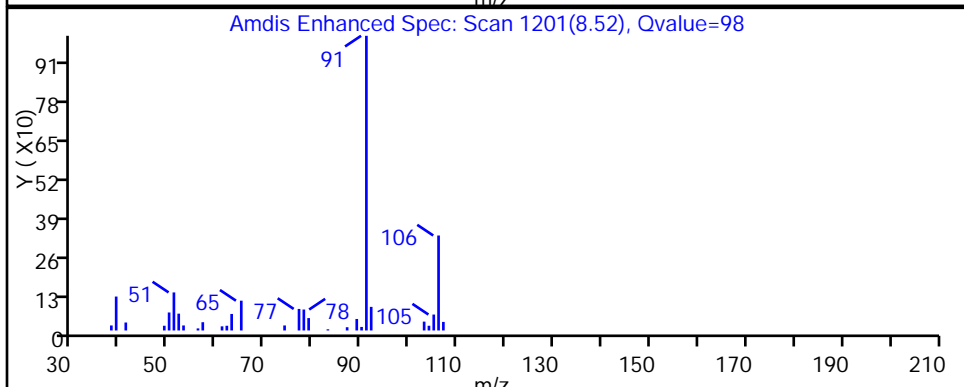
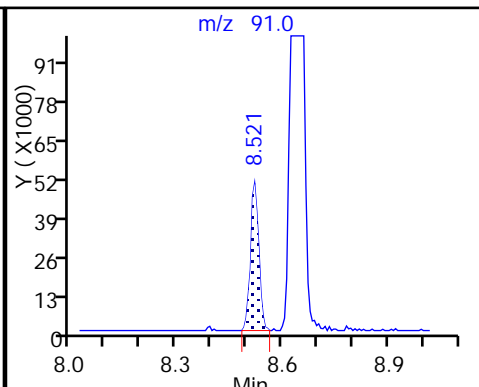
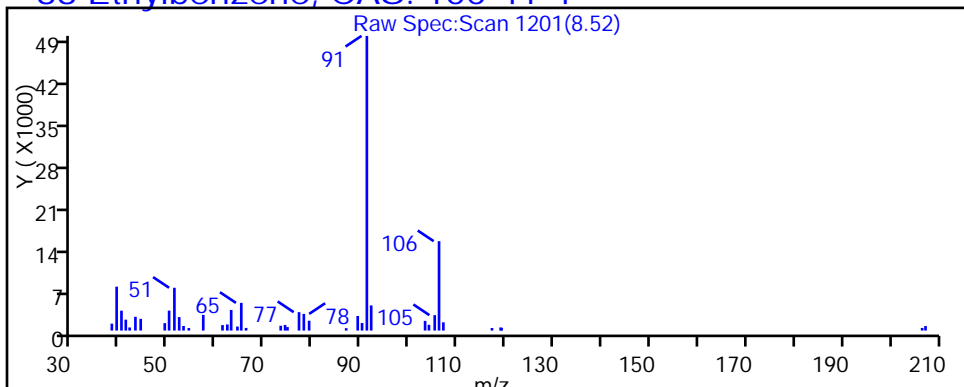
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

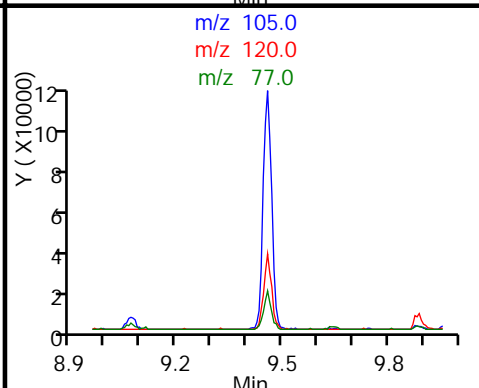
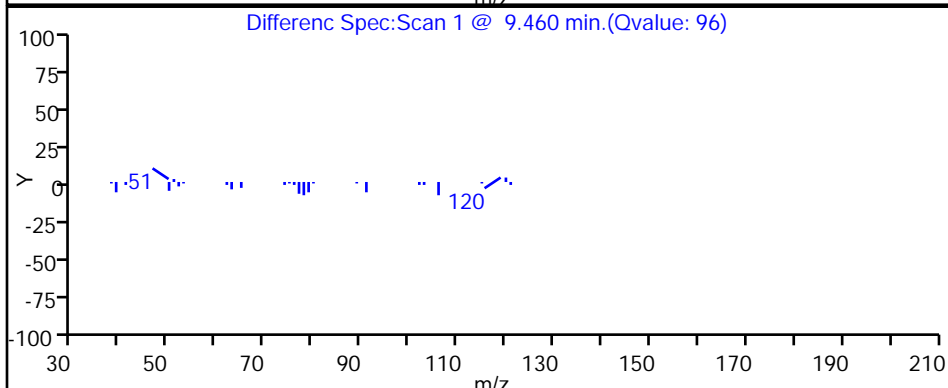
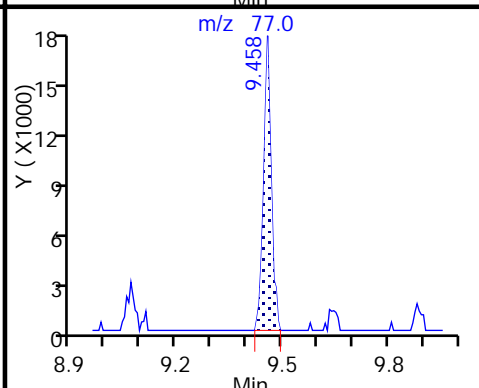
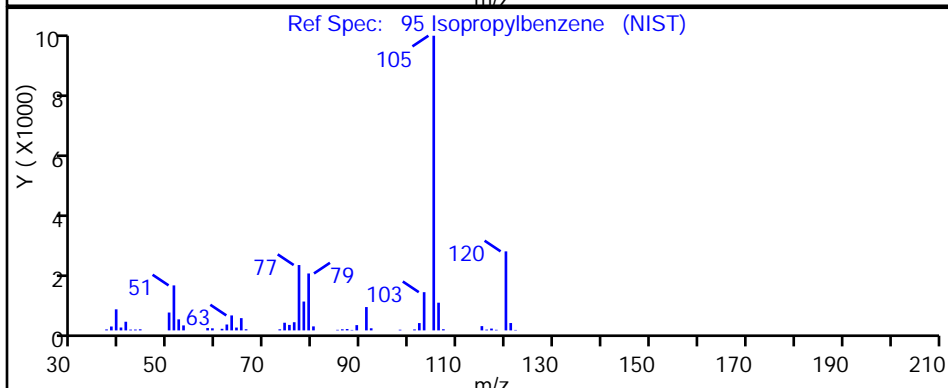
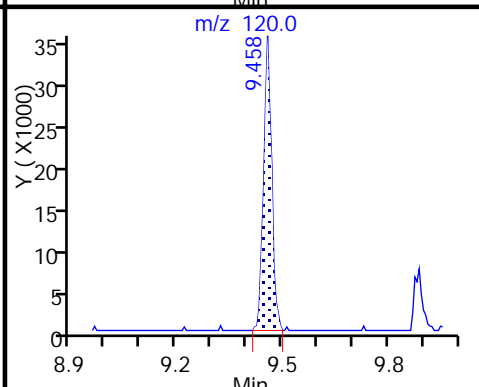
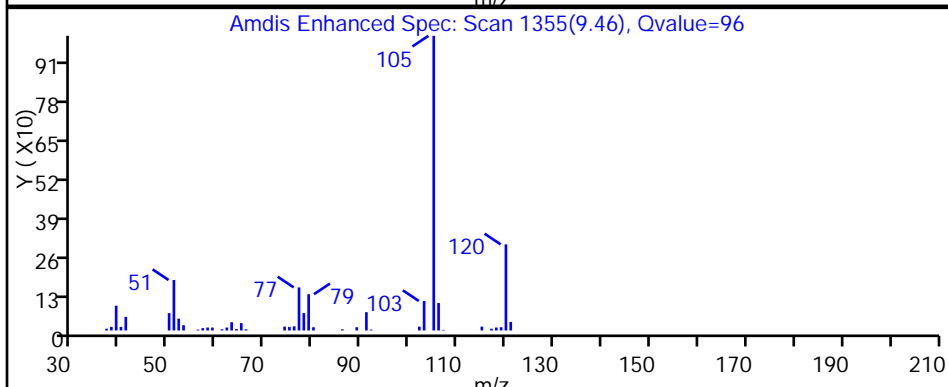
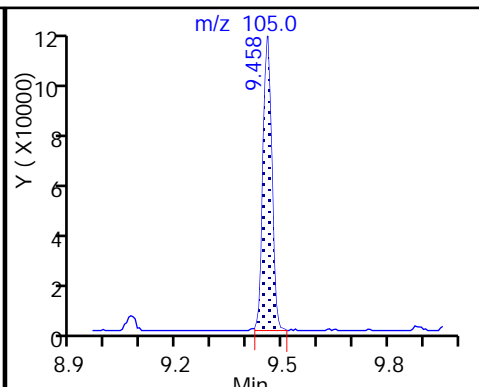
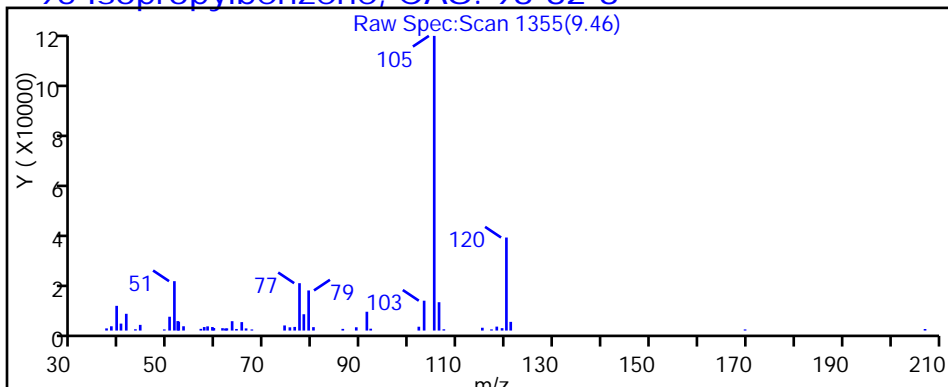
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

95 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

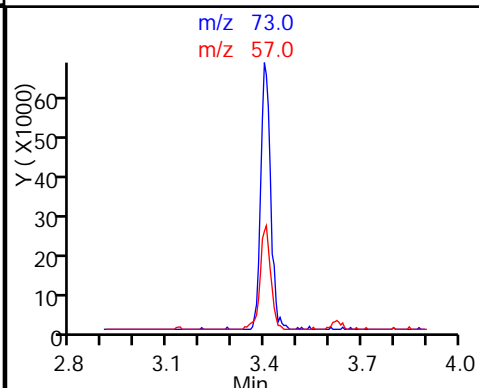
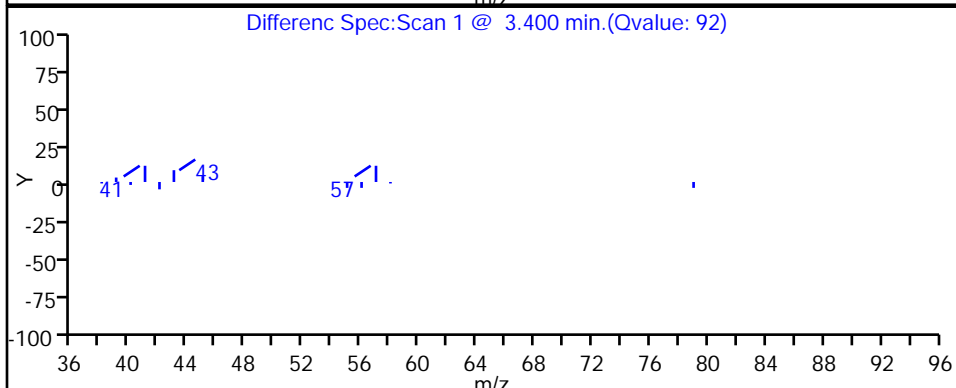
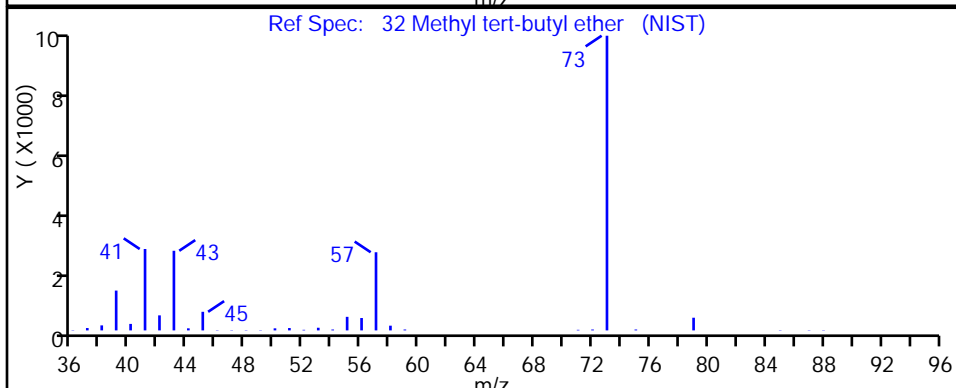
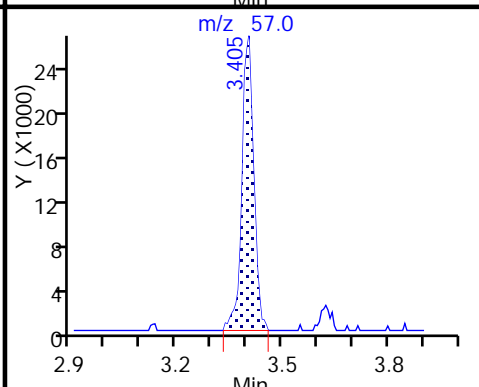
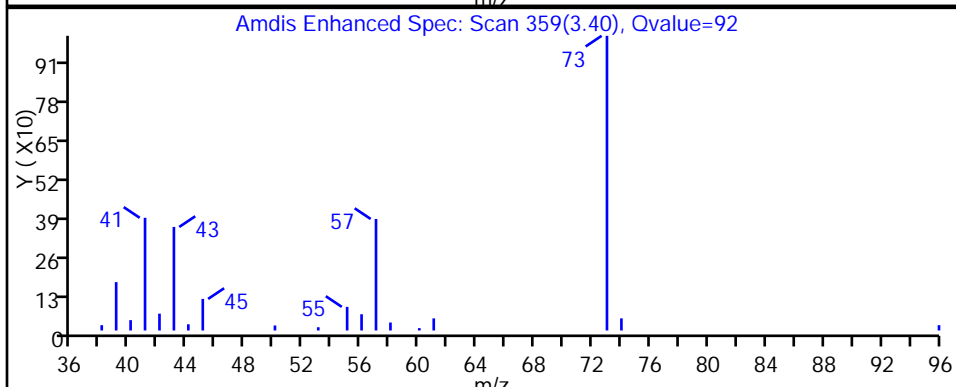
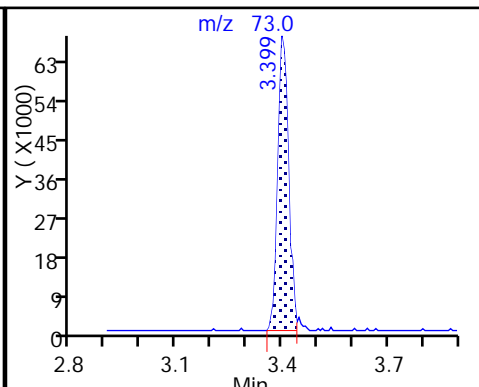
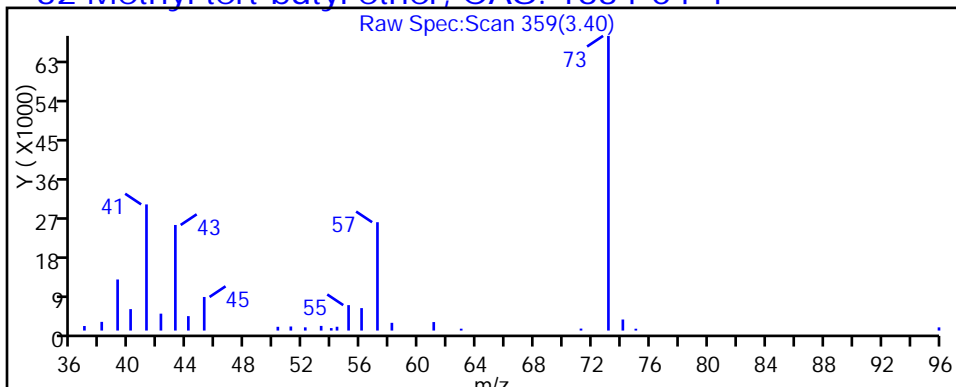
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

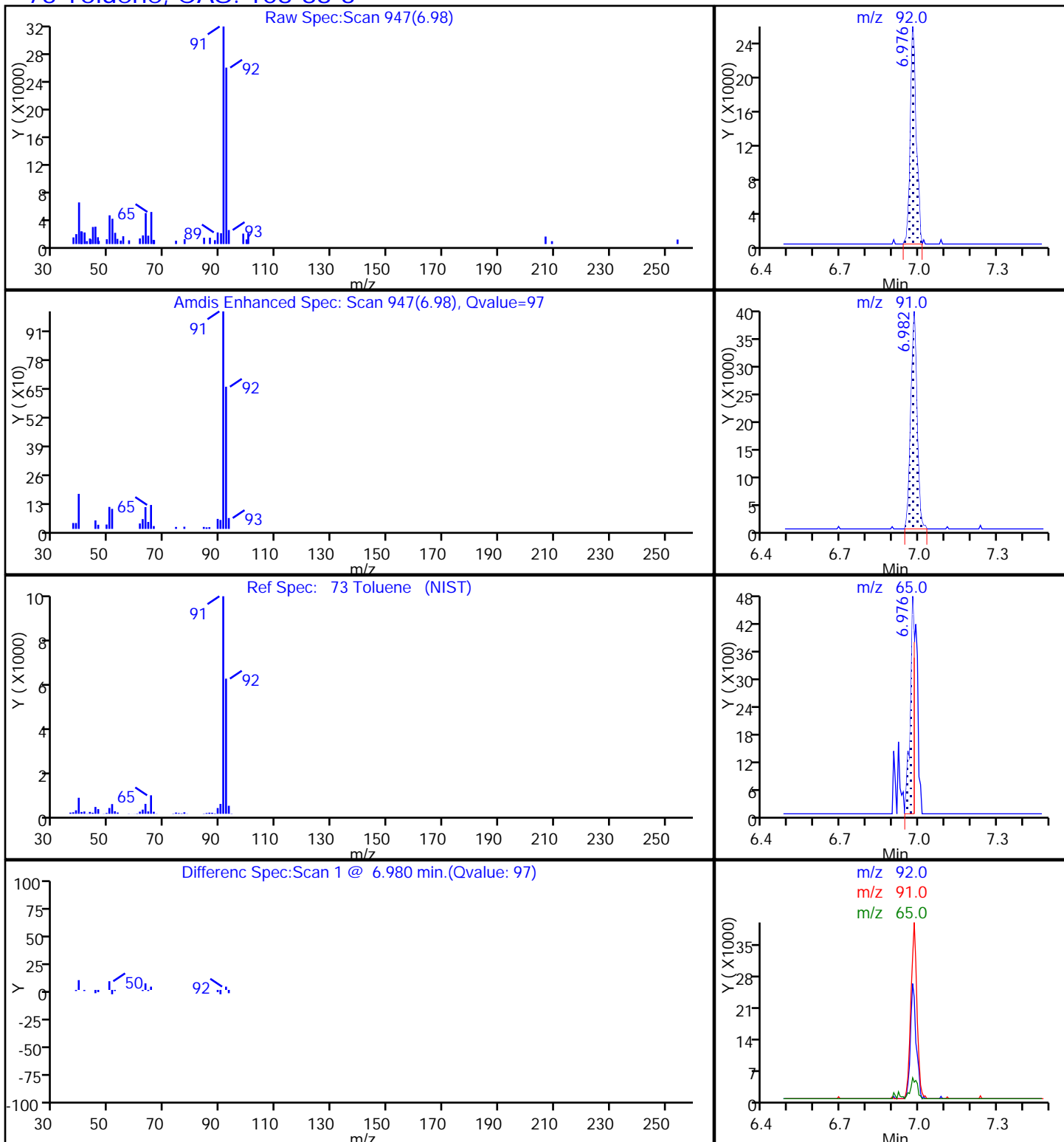
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

73 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

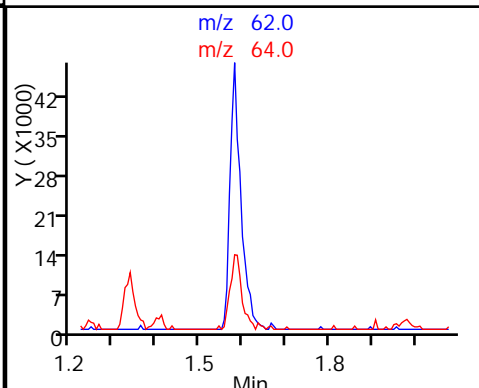
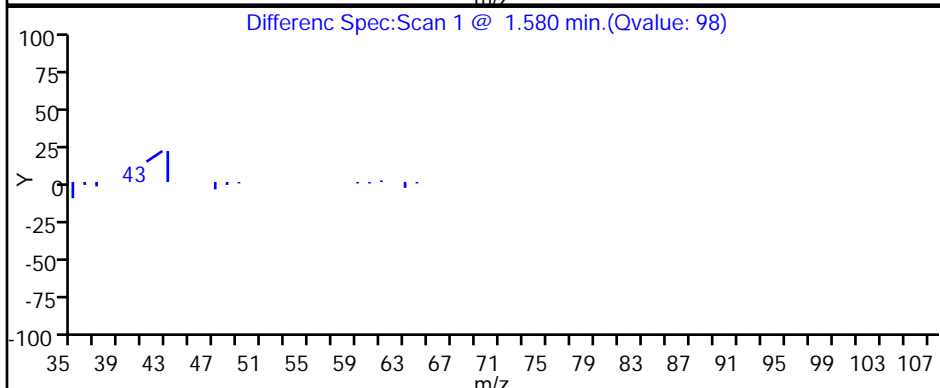
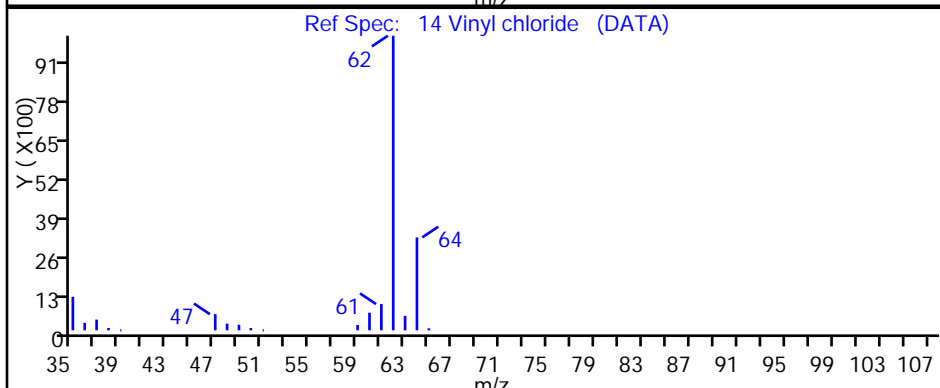
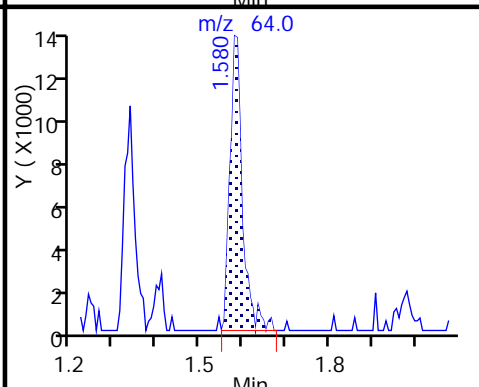
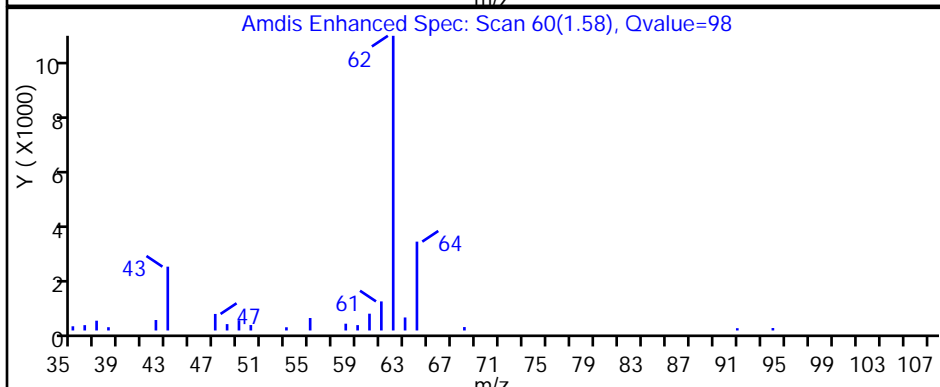
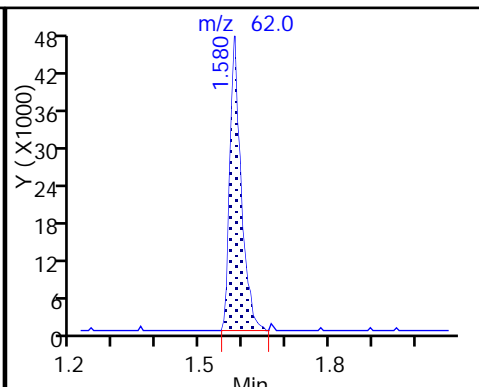
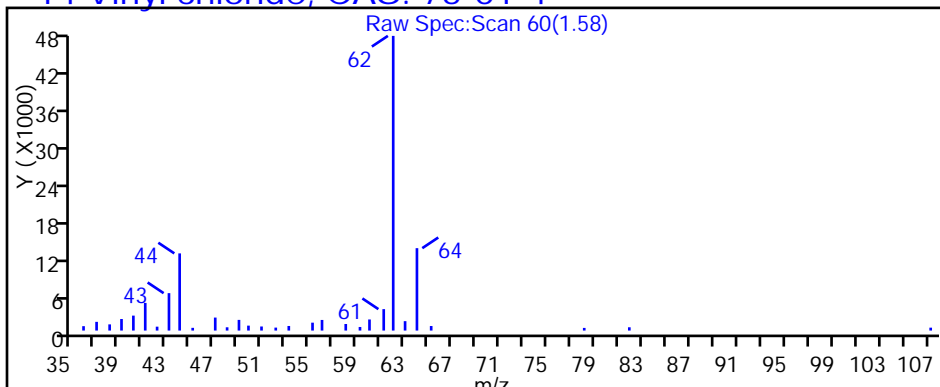
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

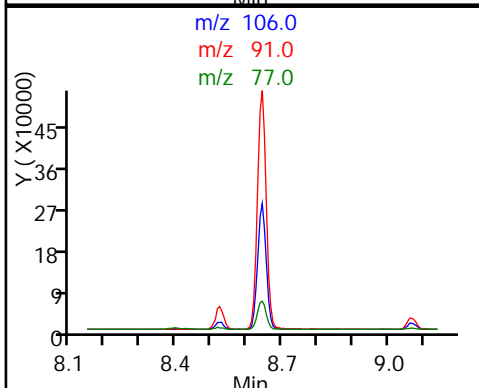
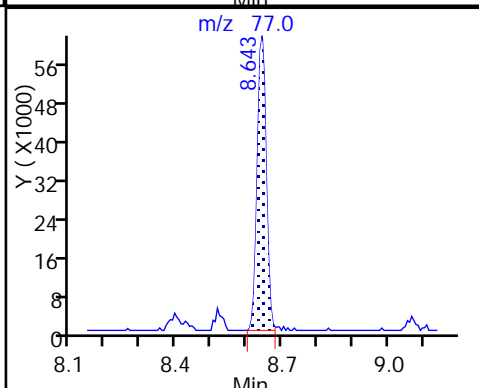
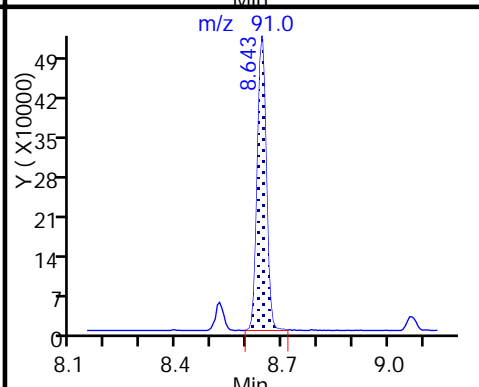
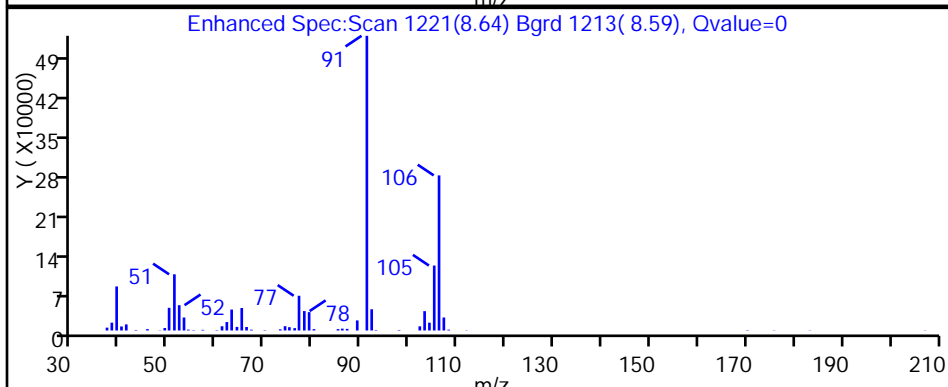
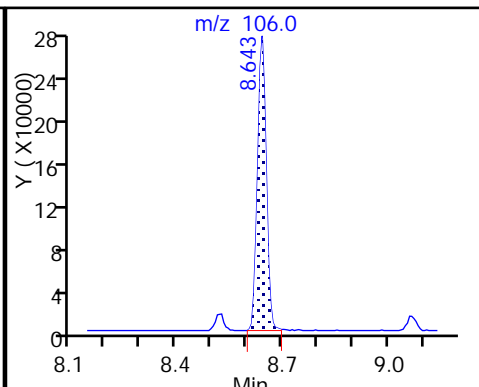
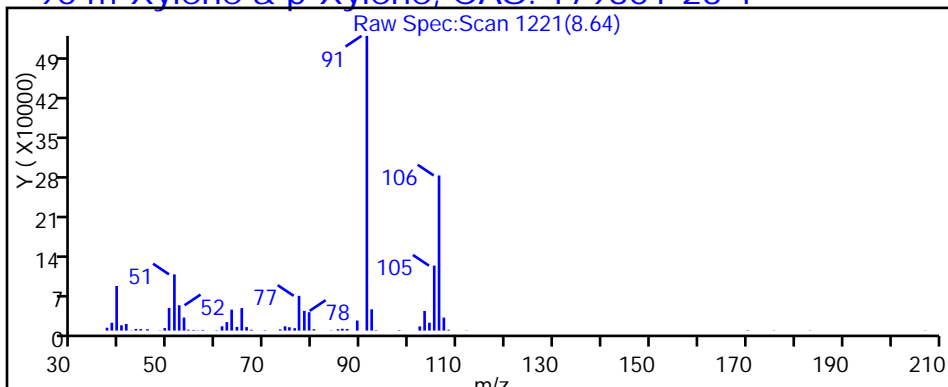
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

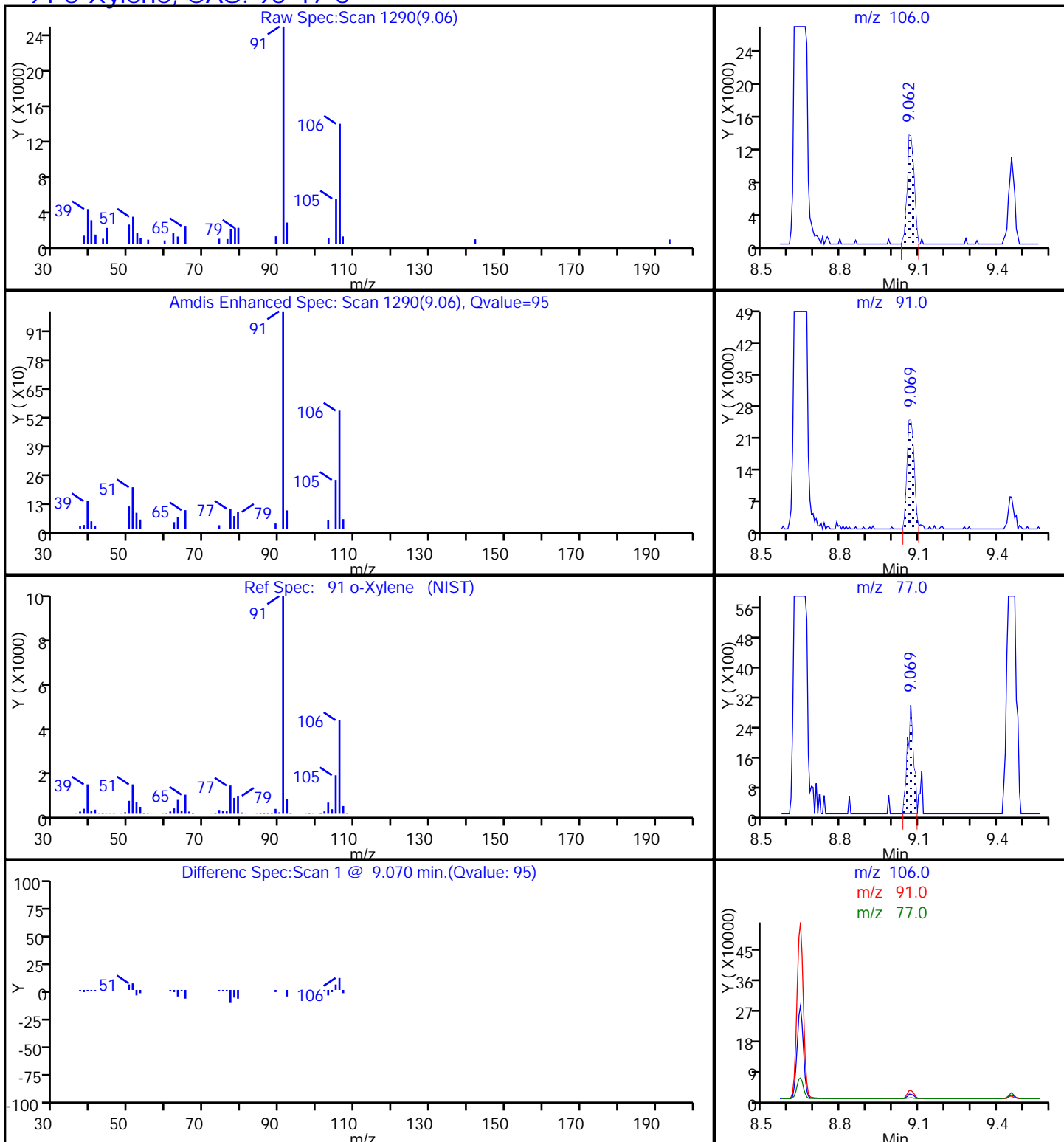
Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

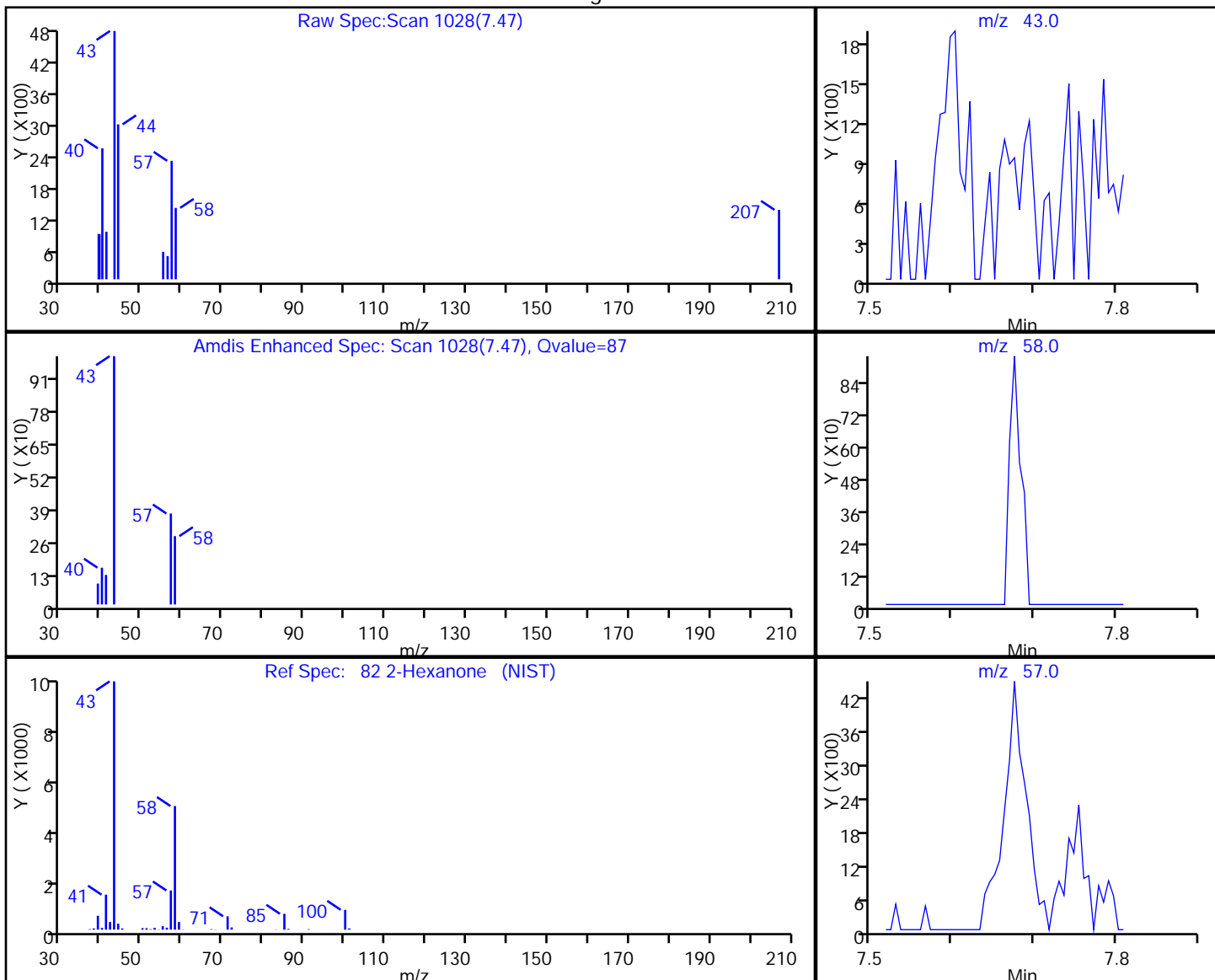


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
 Injection Date: 25-Feb-2018 14:47:30 Instrument ID: HP5973N
 Lims ID: 480-131737-F-8 Lab Sample ID: 480-131737-8
 Client ID: LBA-SBW-16
 Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.47	43.00	7823	0.464932
7.47	58.00	2436	
7.47	57.00	1382	

Reviewer: moffata, 26-Feb-2018 09:54:14

Audit Action: Marked Compound Undetected

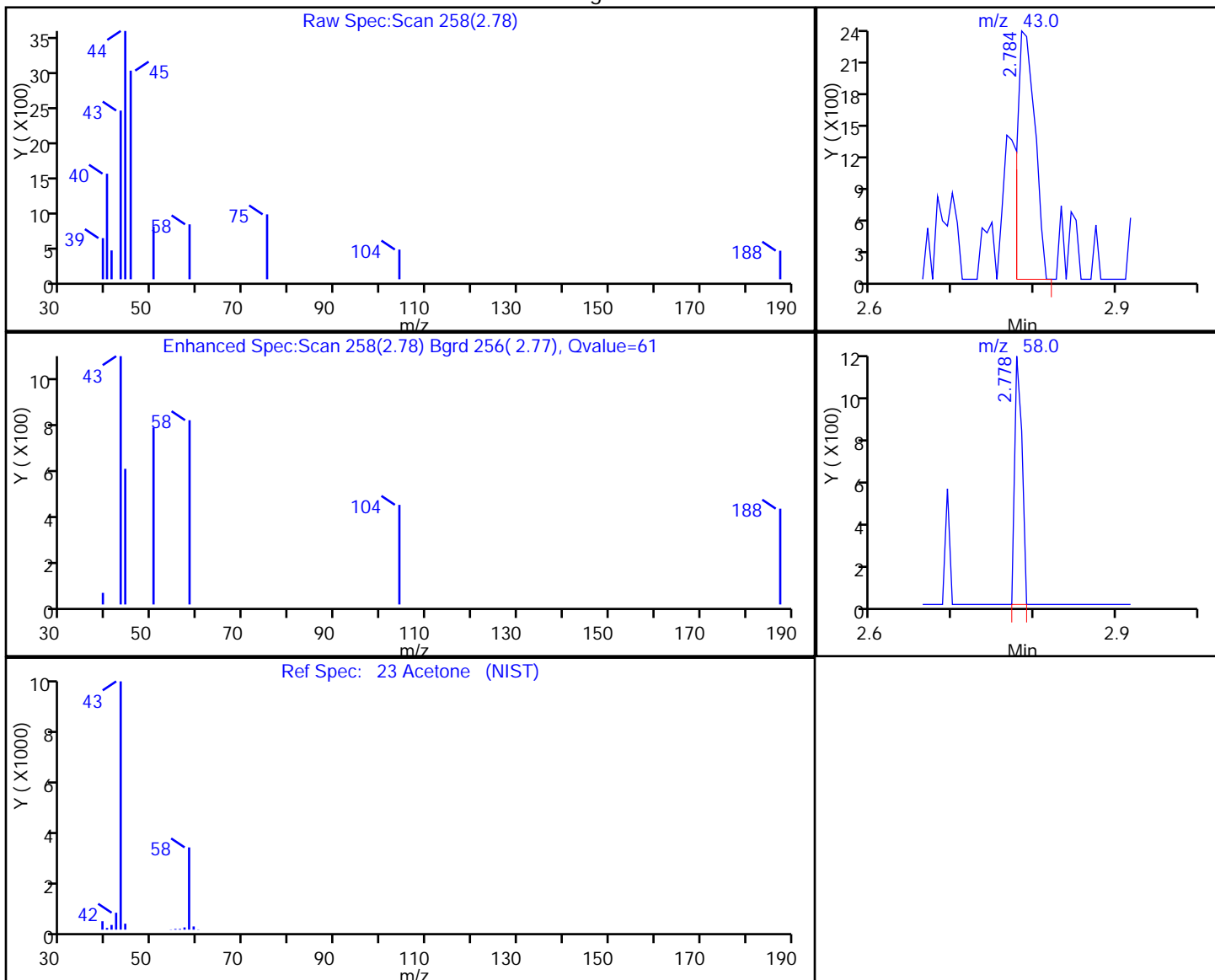
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
Injection Date: 25-Feb-2018 14:47:30 Instrument ID: HP5973N
Lims ID: 480-131737-F-8 Lab Sample ID: 480-131737-8
Client ID: LBA-SBW-16
Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.78	43.00	3509	0.514806
2.78	58.00	689	

Reviewer: moffata, 26-Feb-2018 09:54:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

Method: N-8260

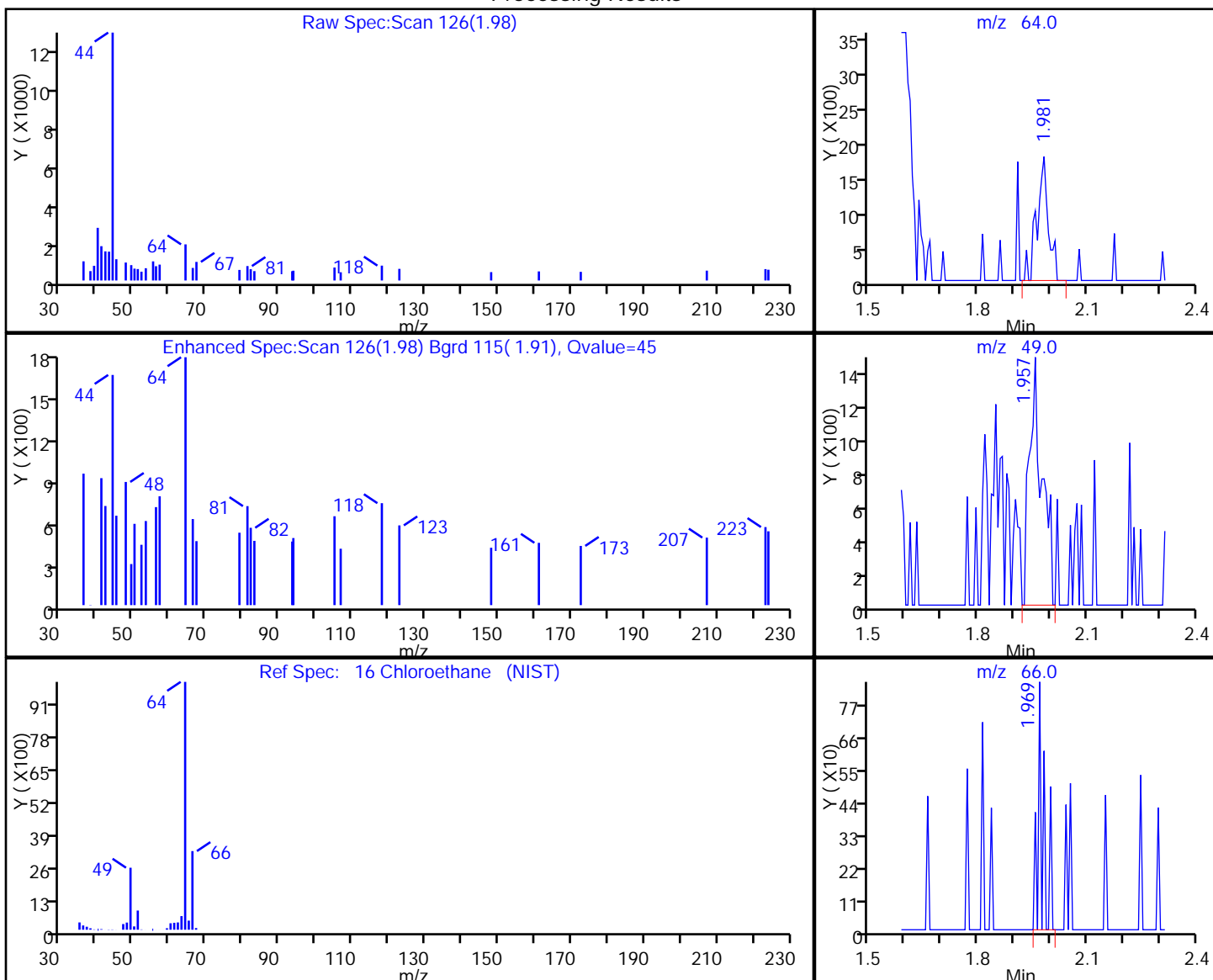
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.98	64.00	3830	0.404734
1.96	49.00	3609	
1.97	66.00	859	

Reviewer: moffata, 26-Feb-2018 09:54:14

Audit Action: Marked Compound Undetected

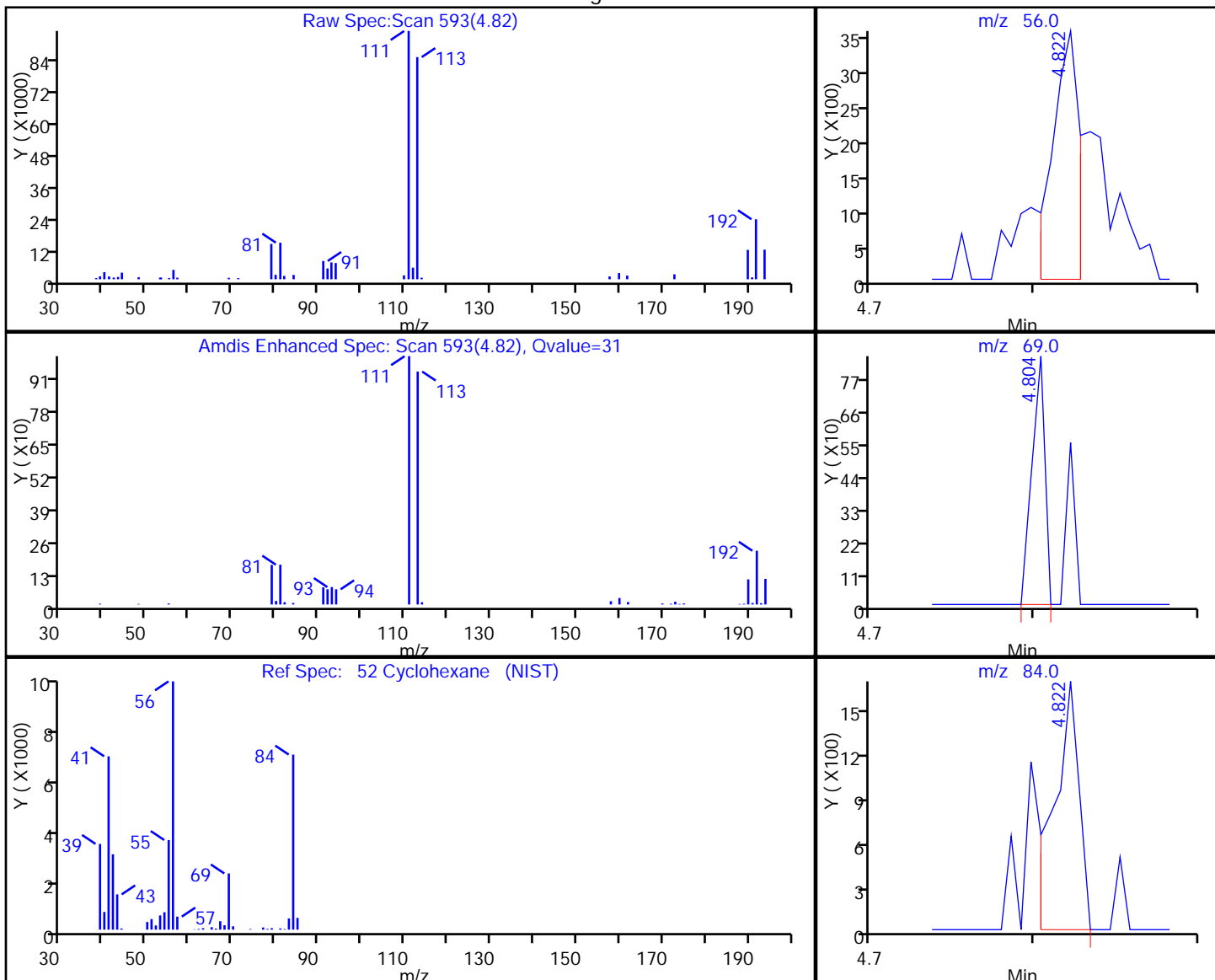
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
Injection Date: 25-Feb-2018 14:47:30 Instrument ID: HP5973N
Lims ID: 480-131737-F-8 Lab Sample ID: 480-131737-8
Client ID: LBA-SBW-16
Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.82	56.00	4103	0.153804
4.80	69.00	469	
4.82	84.00	1766	

Reviewer: moffata, 26-Feb-2018 09:54:14

Audit Action: Marked Compound Undetected

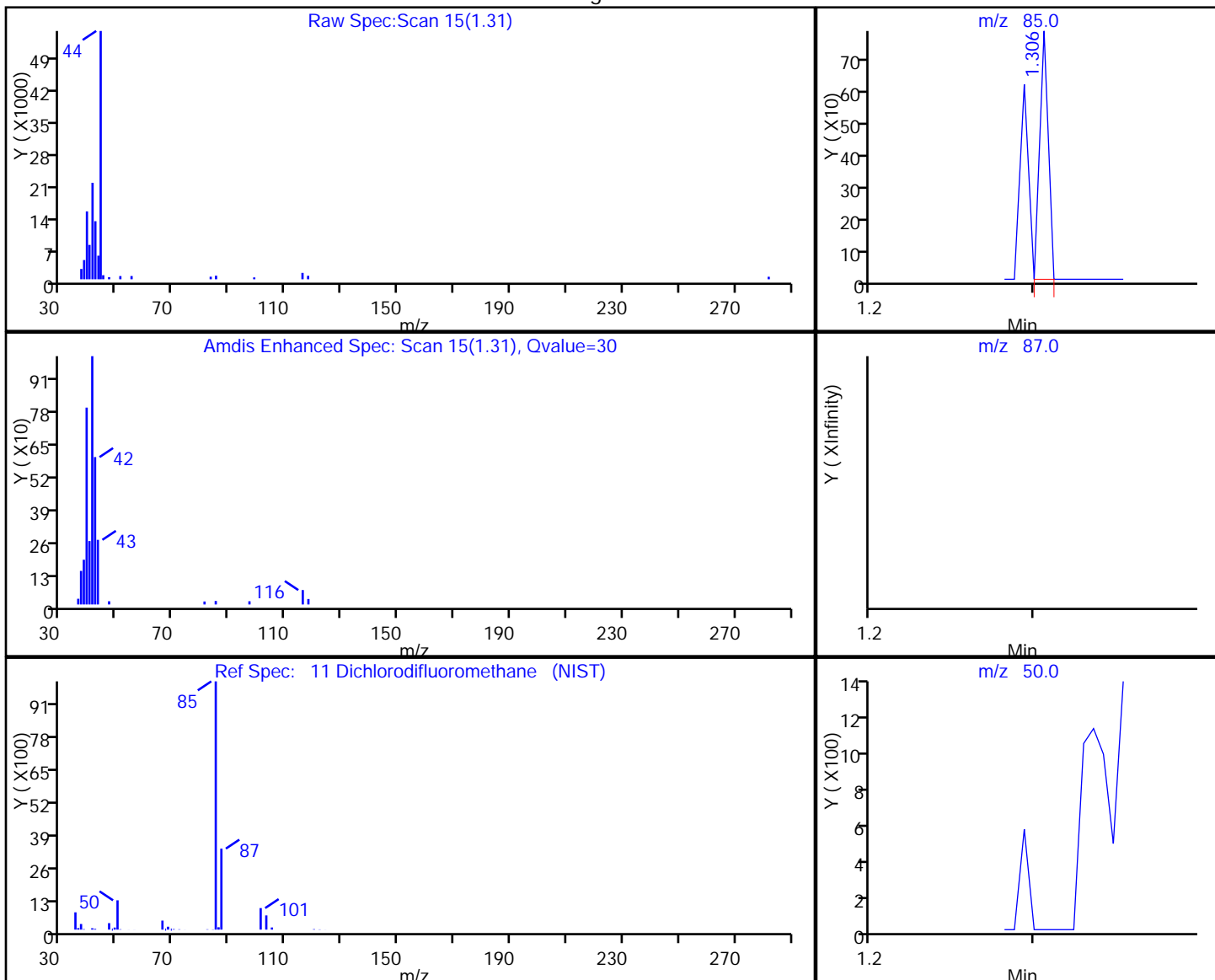
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
 Injection Date: 25-Feb-2018 14:47:30 Instrument ID: HP5973N
 Lims ID: 480-131737-F-8 Lab Sample ID: 480-131737-8
 Client ID: LBA-SBW-16
 Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.31	85.00	287	0.027554
1.32	87.00	0	
1.32	50.00	0	

Reviewer: moffata, 26-Feb-2018 09:54:14

Audit Action: Marked Compound Undetected

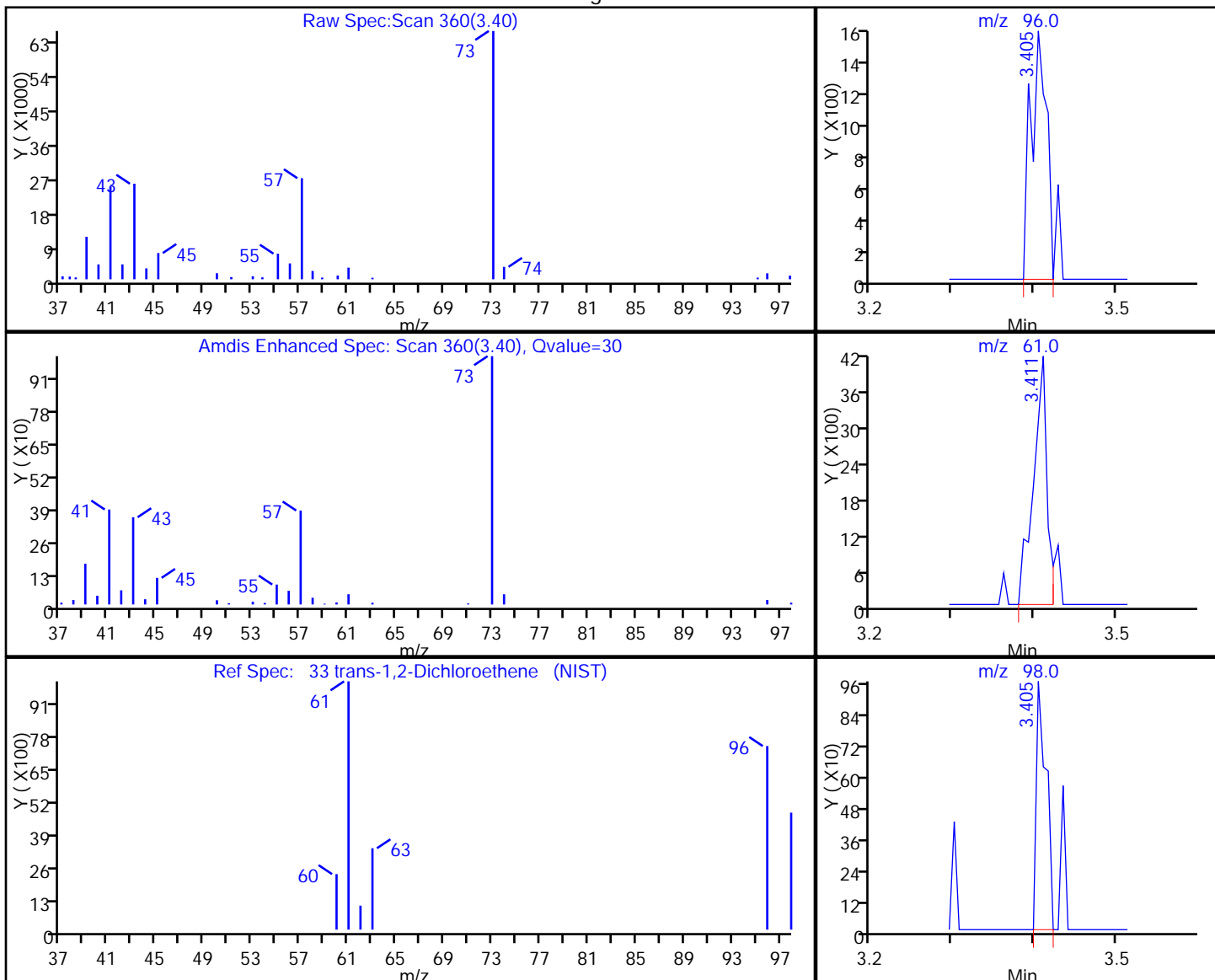
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D
 Injection Date: 25-Feb-2018 14:47:30 Instrument ID: HP5973N
 Lims ID: 480-131737-F-8 Lab Sample ID: 480-131737-8
 Client ID: LBA-SBW-16
 Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
3.40	96.00	2085	0.200562
3.41	61.00	4821	
3.40	98.00	805	

Reviewer: moffata, 26-Feb-2018 09:54:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

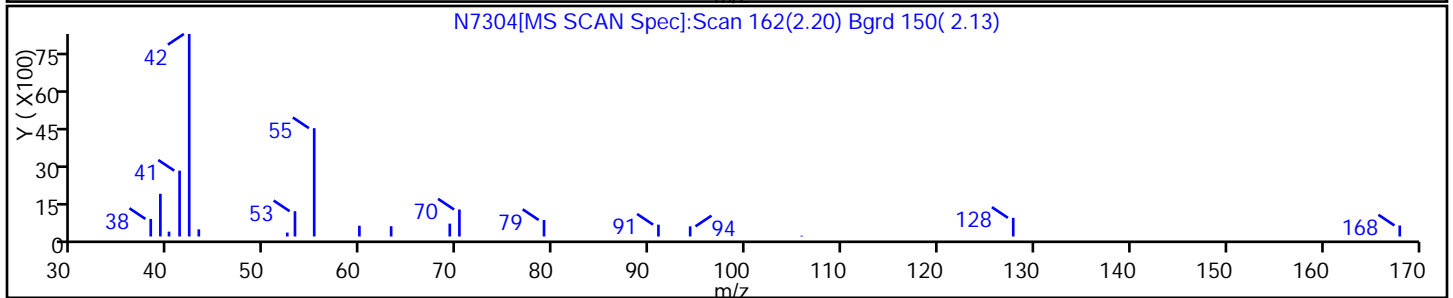
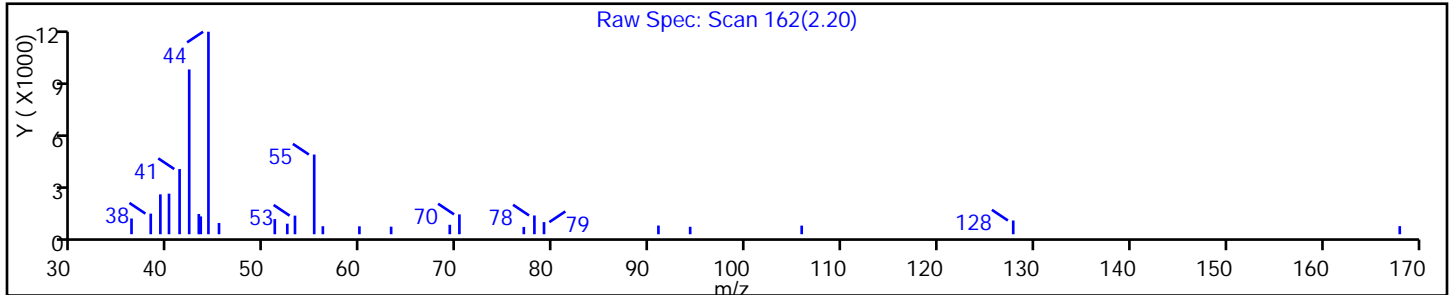
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

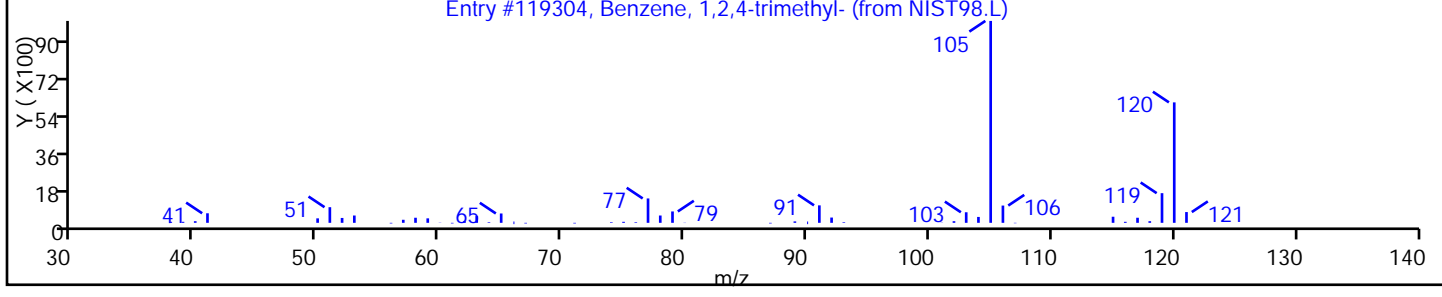
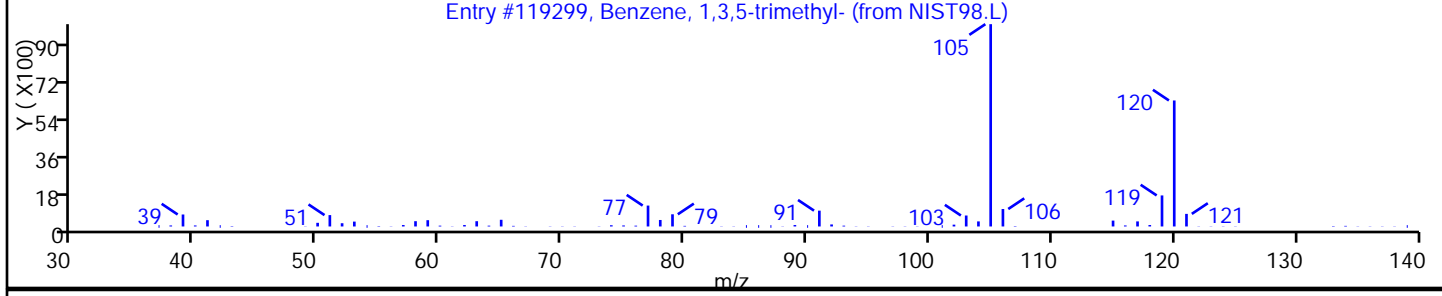
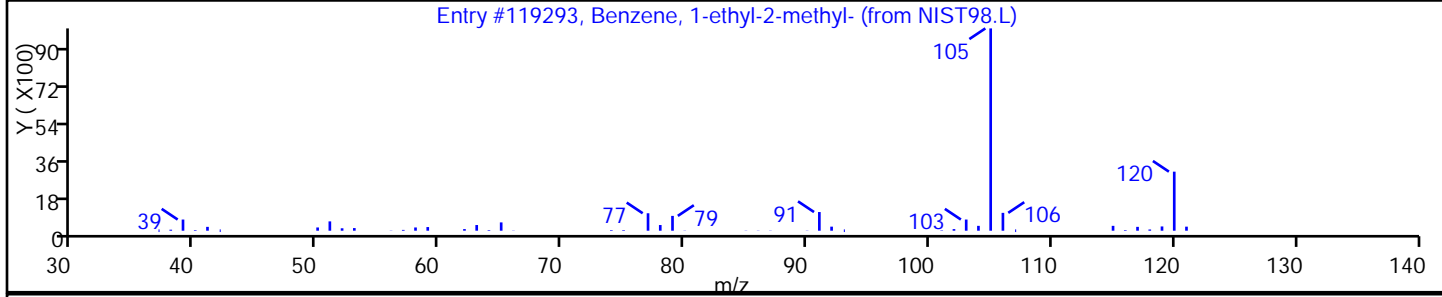
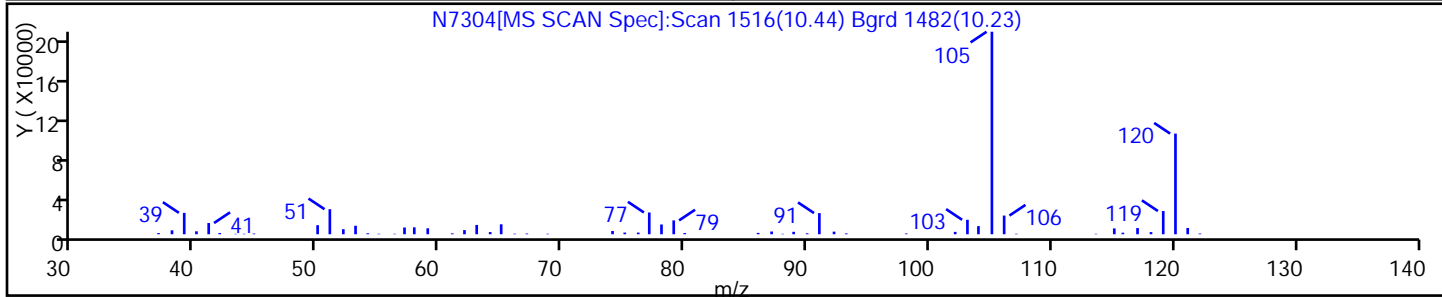
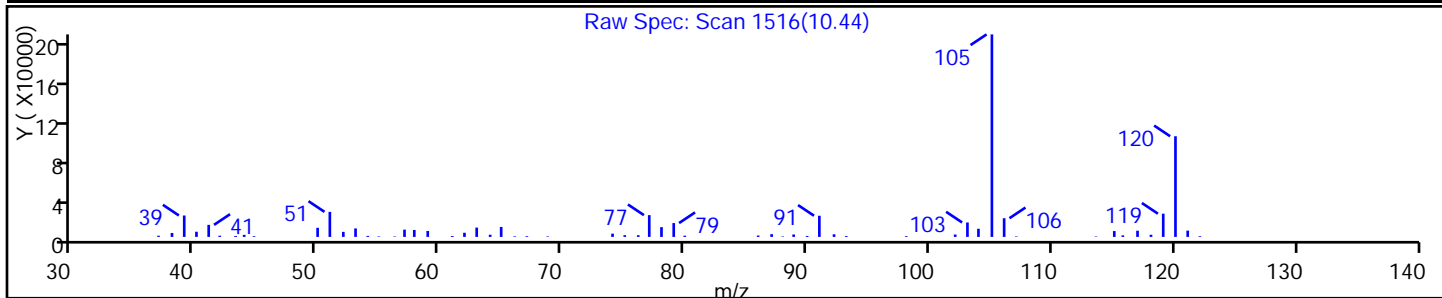
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST98.L	119293	C9H12	120	94
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	93
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	93



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7304.D

Injection Date: 25-Feb-2018 14:47:30

Instrument ID: HP5973N

Lims ID: 480-131737-F-8

Lab Sample ID: 480-131737-8

Client ID: LBA-SBW-16

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 10.0000

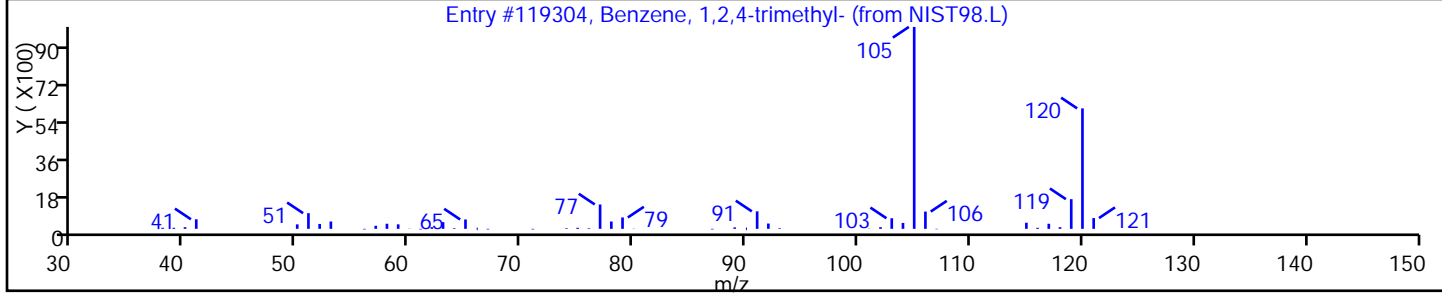
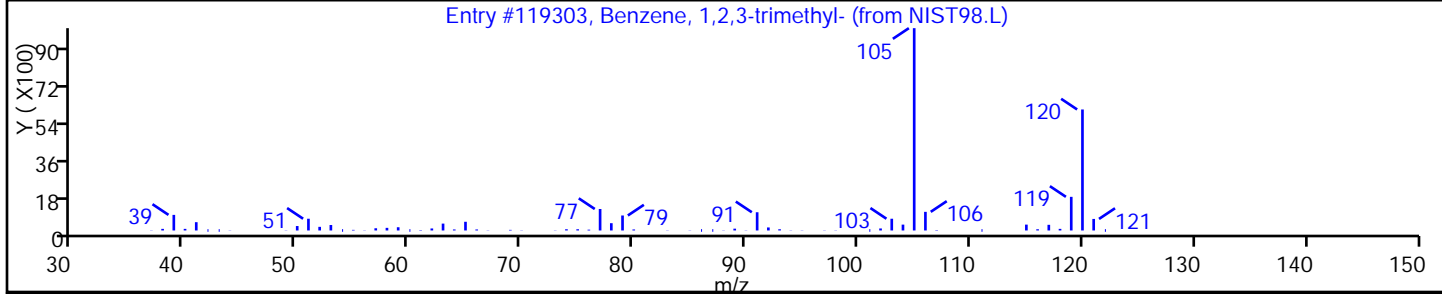
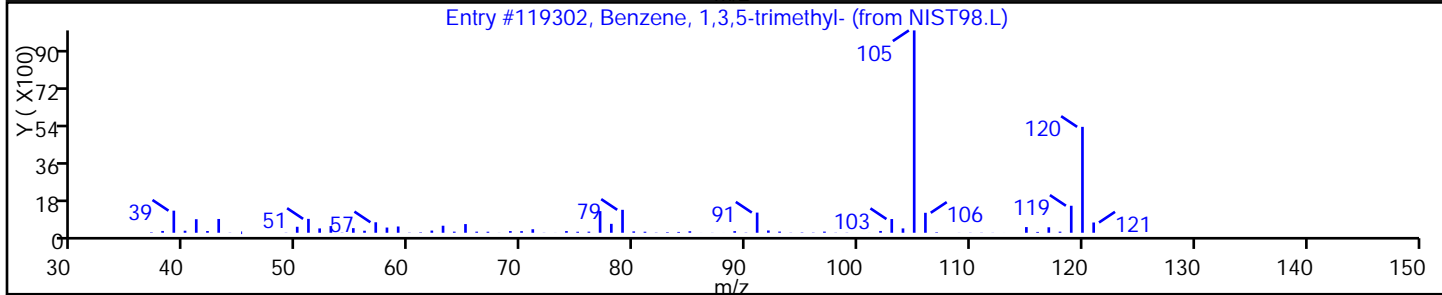
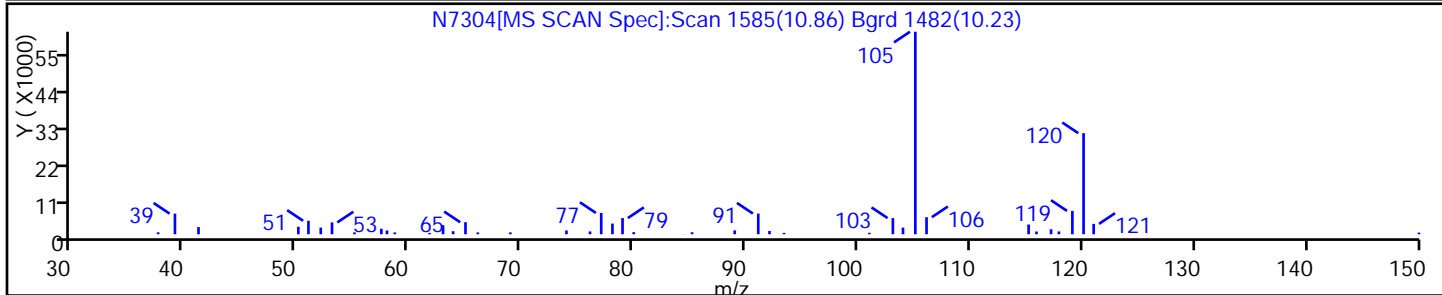
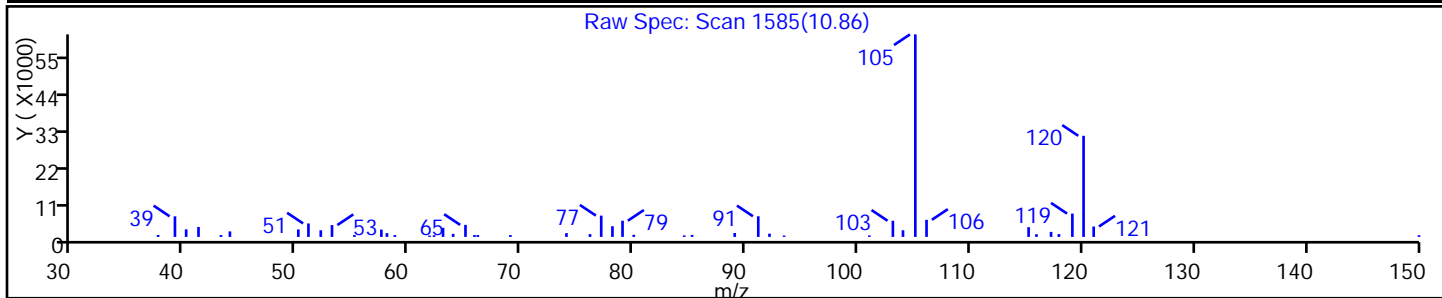
Method: N-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119302	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	94
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	94



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32 Calibration End Date: 01/31/2018 18:40 Calibration ID: 32733

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-398122/7	N6813.D
Level 2	IC 480-398122/8	N6814.D
Level 3	IC 480-398122/9	N6815.D
Level 4	IC 480-398122/10	N6816.D
Level 5	IC 480-398122/11	N6817.D
Level 6	ICIS 480-398122/12	N6818.D
Level 7	IC 480-398122/13	N6819.D
Level 8	IC 480-398122/14	N6820.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	++++ 1.2530	1.2995 1.4056	1.1003 1.4098	1.4208	1.2235	Ave		1.3018		0.1000	9.2		20.0				
Chloromethane	3.1896 3.1515	3.4289 3.1251	2.6417 3.2178	3.4001	3.1153	Ave		3.1588		0.1000	7.6		20.0				
Vinyl chloride	2.3840 2.1484	2.1756 2.2050	1.9660 2.2506	2.4311	2.1176	Ave		2.2098		0.1000	6.7		20.0				
Butadiene	2.3644 2.4169	2.3515 2.5796	2.1465 2.6646	2.6071	2.3940	Ave		2.4406			6.9		20.0				
Bromomethane	1.0883 1.0725	1.0921 1.0347	0.9758 1.0836	1.1364	1.0434	Ave		1.0659		0.1000	4.5		20.0				
Chloroethane	1.2380 1.1521	1.1302 1.1803	1.0541 1.2112	1.3320	1.1636	Ave		1.1827		0.1000	6.9		20.0				
Dichlorofluoromethane	2.7129 2.3750	2.6885 2.4245	2.3464 2.4987	2.5316	2.5238	Ave		2.5127			5.3		20.0				
Trichlorofluoromethane	1.7951 1.9464	2.0372 2.0324	1.5044 2.0860	2.0807	1.8281	Ave		1.9138		0.1000	10.4		20.0				
Ethyl ether	1.7467 1.9382	1.8645 1.8477	1.7197 1.9337	1.8783	1.8532	Ave		1.8477			4.3		20.0				
Acrolein	++++ 0.4642	0.4554 0.4396	0.4065 0.4573	0.4499	0.4591	Ave		0.4474			4.4		20.0				
1,1-Dichloroethene	1.1206 1.1328	1.1272 1.1580	1.1038 1.1650	1.2115	1.0428	Ave		1.1327		0.1000	4.3		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.7962 1.0898	0.8840 1.1487	0.9311 1.1194	1.1209	0.9954	Ave		1.0107		0.1000	12.8		20.0				
Acetone	1.0349 0.8392	0.8603 0.8010	0.7547 0.8222	0.8512	0.8515	Ave		0.8519		0.1000	9.6		20.0				
Iodomethane	1.9371 2.0800	2.0129 2.0664	1.8513 2.0880	2.1562	1.9741	Ave		2.0207			4.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32

Calibration End Date: 01/31/2018 18:40

Calibration ID: 32733

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	2.9512 3.7440	3.4094 3.8106	3.2772 3.9676	3.6512	3.6030	Ave		3.5518			0.1000	9.2	20.0				
Allyl chloride	3.5869 4.1032	3.6781 4.0336	3.4009 3.9871	4.0314	3.9015	Ave		3.8403				6.6	20.0				
Methyl acetate	2.6242 2.3251	2.3388 2.2364	2.1670 2.3407	2.2610	2.3464	Ave		2.3300			0.1000	5.8	20.0				
Methylene Chloride	++++ 1.4372	2.1111 1.3556	1.5938 1.3703	1.4979	1.4666	Lin1	0.6838	1.3648			0.1000			1.0000		0.9900	
2-Methyl-2-propanol	0.2464 0.2682	0.2285 0.2291	0.2488 0.2517	0.2586	0.2559	Ave		0.2484				5.6	20.0				
Methyl tert-butyl ether	3.9787 4.4452	4.1269 4.3869	3.7729 4.5088	4.5703	4.4632	Ave		4.2816			0.1000	6.7	20.0				
trans-1,2-Dichloroethene	1.0874 1.3828	1.2680 1.3440	1.2633 1.3799	1.3670	1.3016	Ave		1.2993			0.1000	7.5	20.0				
Acrylonitrile	1.1296 1.1339	1.0380 1.0792	0.9721 1.1300	1.1490	1.1270	Ave		1.0949				5.6	20.0				
Hexane	2.3747 3.0419	2.2790 3.1574	2.6931 3.1696	3.0697	2.7123	Ave		2.8122				12.5	20.0				
1,1-Dichloroethane	2.5129 3.0348	2.5336 3.0160	2.7956 3.0976	3.0243	2.9600	Ave		2.8718			0.2000	8.1	20.0				
Vinyl acetate	5.1787 6.1719	5.3912 6.0077	4.9199 6.2584	5.9944	5.8802	Ave		5.7253				8.7	20.0				
2,2-Dichloropropane	1.6272 1.7342	1.6403 1.7386	1.4524 1.7468	1.6162	1.6309	Ave		1.6483				5.9	20.0				
cis-1,2-Dichloroethene	1.6106 1.5525	1.2929 1.5732	1.3433 1.5712	1.4442	1.5000	Ave		1.4860			0.1000	7.8	20.0				
2-Butanone (MEK)	1.5515 1.4827	1.3530 1.3988	1.2425 1.4706	1.4695	1.4522	Ave		1.4276			0.1000	6.7	20.0				
Chlorobromomethane	0.7531 0.8007	0.7204 0.7433	0.6749 0.7698	0.7270	0.7661	Ave		0.7444				5.1	20.0				
Tetrahydrofuran	1.3097 0.9798	1.0471 0.9494	0.9432 0.9819	1.0338	0.9858	Ave		1.0288				11.6	20.0				
Chloroform	2.5164 2.4087	2.2266 2.3589	2.2661 2.4216	2.3637	2.3285	Ave		2.3613			0.2000	3.9	20.0				
1,1,1-Trichloroethane	1.4934 2.0130	1.9029 2.0651	1.8303 2.0797	1.9118	1.9006	Ave		1.8996			0.1000	9.8	20.0				
Cyclohexane	2.5244 3.6774	2.9421 3.8217	3.1486 3.7948	3.5641	3.1991	Ave		3.3340			0.1000	13.8	20.0				
Carbon tetrachloride	1.1779 1.7537	1.5688 1.8143	1.4400 1.8549	1.6175	1.5338	Ave		1.5951			0.1000	13.9	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32

Calibration End Date: 01/31/2018 18:40

Calibration ID: 32733

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.5940 1.8011	1.9295 1.8404	1.6815 1.8637	1.7753	1.7647	Ave		1.7813			5.9		20.0				
Isobutyl alcohol	0.1288 0.1549	0.1340 0.1488	0.1243 0.1586	0.1489	0.1471	Ave		0.1432			8.8		20.0				
Benzene	5.2445 5.6281	5.0503 5.5145	4.7303 5.6746	5.5060	5.2022	Ave		5.3188		0.5000	6.1		20.0				
1,2-Dichloroethane	2.8114 2.5920	2.4384 2.4666	2.4124 2.5066	2.6476	2.5721	Ave		2.5559		0.1000	5.1		20.0				
n-Heptane	2.2418 3.4960	2.7812 3.6439	2.8438 3.6941	3.4937	3.1126	Ave		3.1634			16.2		20.0				
Trichloroethene	1.3505 1.4983	1.4738 1.4462	1.1637 1.4845	1.3755	1.3896	Ave		1.3978		0.2000	7.8		20.0				
Methylcyclohexane	++++ 2.3118	1.6972 2.4421	1.8626 2.4721	2.1937	1.9973	Ave		2.1395		0.1000	13.9		20.0				
1,2-Dichloropropane	1.3098 1.7833	1.5734 1.7431	1.5464 1.8037	1.7174	1.6902	Ave		1.6459		0.1000	10.0		20.0				
Dibromomethane	0.7325 0.8647	0.9005 0.8543	0.8633 0.8792	0.8222	0.8524	Ave		0.8461		0.1000	6.0		20.0				
1,4-Dioxane	++++ 0.0045	0.0040 0.0043	0.0032 0.0043	0.0046	0.0046	Ave		0.0042			12.0		20.0				
Bromodichloromethane	1.5088 1.8505	1.7322 1.8627	1.4446 1.9668	1.7125	1.7540	Ave		1.7290		0.2000	10.2		20.0				
2-Chloroethyl vinyl ether	1.2286 1.3409	1.0533 1.2790	1.1143 1.3251	1.1937	1.2439	Ave		1.2224			8.1		20.0				
cis-1,3-Dichloropropene	1.9060 2.1659	1.7688 2.1879	1.7615 2.2560	2.0382	1.9910	Ave		2.0094		0.2000	9.4		20.0				
4-Methyl-2-pentanone (MIBK)	0.2662 0.2793	0.2489 0.2752	0.2301 0.2779	0.2745	0.2985	Ave		0.2688		0.1000	7.8		20.0				
Toluene	1.0238 0.9584	0.9128 0.9593	0.8321 0.9598	0.8482	0.9831	Ave		0.9347		0.4000	7.1		20.0				
trans-1,3-Dichloropropene	0.4060 0.5343	0.4884 0.5501	0.4271 0.5669	0.4741	0.5568	Ave		0.5005		0.1000	12.3		20.0				
Ethyl methacrylate	0.4922 0.5066	0.5144 0.5258	0.4554 0.5263	0.4711	0.5558	Ave		0.5059			6.4		20.0				
1,1,2-Trichloroethane	0.2394 0.2857	0.2849 0.2866	0.2453 0.2865	0.2496	0.2837	Ave		0.2702		0.1000	7.9		20.0				
Tetrachloroethene	0.3612 0.4091	0.3967 0.4300	0.3872 0.4144	0.3712	0.4180	Ave		0.3985		0.2000	6.0		20.0				
1,3-Dichloropropane	0.5293 0.5875	0.5090 0.5638	0.4771 0.5771	0.5755	0.6047	Ave		0.5530			7.9		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32 Calibration End Date: 01/31/2018 18:40 Calibration ID: 32733

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.5238 0.5954	0.6077 0.5870	0.5160 0.5808	0.6084	0.6480	Ave		0.5834			0.1000	7.6	20.0				
Dibromochloromethane	0.2886 0.3798	0.3120 0.3968	0.3191 0.4090	0.3458	0.3878	Ave		0.3549			0.1000	12.6	20.0				
1,2-Dibromoethane	0.2878 0.3527	0.3207 0.3683	0.3205 0.3707	0.3368	0.3821	Ave		0.3425				9.3	20.0				
Chlorobenzene	0.9297 1.0654	1.0240 1.0980	0.9410 1.0947	1.0171	1.1113	Ave		1.0351			0.5000	6.8	20.0				
1,1,1,2-Tetrachloroethane	0.2450 0.3797	0.2842 0.3885	0.2901 0.3897	0.3554	0.3880	Ave		0.3401				17.1	20.0				
Ethylbenzene	1.5163 1.7386	1.5514 1.7801	1.5890 1.7765	1.6219	1.7714	Ave		1.6682			0.1000	6.6	20.0				
m,p-Xylene	0.7086 0.7016	0.6644 0.7162	0.5747 0.7084	0.6115	0.7297	Ave		0.6769			0.1000	8.2	20.0				
o-Xylene	0.5361 0.7008	0.6354 0.7056	0.5688 0.6981	0.6543	0.7279	Ave		0.6534			0.3000	10.6	20.0				
Styrene	0.9826 1.1670	1.0312 1.2001	1.0212 1.1933	1.0809	1.2031	Ave		1.1099			0.3000	8.2	20.0				
Bromoform	0.1834 0.2405	0.2389 0.2589	0.1772 0.2708	0.2044	0.2425	Ave		0.2271			0.1000	15.2	20.0				
Isopropylbenzene	2.8845 3.4096	2.8492 3.5822	2.7594 3.5745	3.2239	3.3756	Ave		3.2074			0.1000	10.4	20.0				
Bromobenzene	0.7529 0.8622	0.8456 0.8934	0.7463 0.8989	0.7537	0.8950	Ave		0.8310				8.3	20.0				
1,1,2,2-Tetrachloroethane	0.7535 0.9228	0.7502 0.9329	0.7678 0.9308	0.8772	0.9506	Ave		0.8607			0.3000	10.3	20.0				
1,2,3-Trichloropropane	0.3004 0.2813	0.2892 0.2965	0.2136 0.2841	0.2782	0.2859	Ave		0.2786				9.8	20.0				
trans-1,4-Dichloro-2-butene	0.4193 0.4888	0.4222 0.4840	0.3799 0.4792	0.4587	0.4523	Ave		0.4481				8.5	20.0				
N-Propylbenzene	3.0902 3.9206	3.5000 4.0629	3.2581 4.0476	3.5736	3.8327	Ave		3.6607				10.0	20.0				
2-Chlorotoluene	0.7292 0.8140	0.7641 0.8562	0.6961 0.8372	0.8038	0.8251	Ave		0.7907				7.1	20.0				
1,3,5-Trimethylbenzene	2.3219 2.8718	2.4934 2.9391	2.2314 2.9139	2.5779	2.7775	Ave		2.6409				10.4	20.0				
4-Chlorotoluene	2.1848 2.7007	2.4137 2.7558	2.2752 2.7554	2.5712	2.7014	Ave		2.5448				8.9	20.0				
tert-Butylbenzene	0.4340 0.6546	0.5364 0.6918	0.5813 0.6642	0.6133	0.6173	Ave		0.5991				13.8	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32 Calibration End Date: 01/31/2018 18:40 Calibration ID: 32733

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	2.3402 2.9286	2.5251 2.9895	2.3146 2.9931	2.6839	2.8731	Ave		2.7060			10.5		20.0				
sec-Butylbenzene	2.9934 3.5728	3.1431 3.7620	2.9625 3.7828	3.1982	3.5417	Ave		3.3696			9.9		20.0				
1,3-Dichlorobenzene	1.3409 1.7285	1.5424 1.7175	1.4770 1.7091	1.5784	1.6639	Ave		1.5947		0.6000	8.6		20.0				
4-Isopropyltoluene	2.1963 3.2959	2.7308 3.4629	2.6532 3.4233	2.9728	3.3101	Ave		3.0057			15.0		20.0				
1,4-Dichlorobenzene	1.3250 1.7341	1.5977 1.7313	1.4946 1.7453	1.6426	1.6869	Ave		1.6197		0.5000	9.0		20.0				
n-Butylbenzene	2.0360 2.7412	2.2113 2.8578	2.2219 2.8185	2.4268	2.6551	Ave		2.4961			12.6		20.0				
1,2-Dichlorobenzene	1.3145 1.6275	1.3345 1.6499	1.3464 1.6299	1.5079	1.6259	Ave		1.5046		0.4000	9.9		20.0				
1,2-Dibromo-3-Chloropropane	0.1097 0.1485	0.1078 0.1621	0.1145 0.1738	0.1477	0.1532	Ave		0.1397		0.0500	18.2		20.0				
1,2,4-Trichlorobenzene	0.8318 1.0455	0.7793 1.0642	0.8080 1.0846	0.8949	1.0033	Ave		0.9390		0.2000	13.3		20.0				
Hexachlorobutadiene	0.4048 0.4662	0.4426 0.4710	0.3969 0.4888	0.4689	0.4826	Ave		0.4527			7.7		20.0				
Naphthalene	2.0816 2.7415	1.9449 2.8905	2.0675 3.0312	2.3481	2.6527	Ave		2.4697			16.8		20.0				
1,2,3-Trichlorobenzene	0.6578 0.8867	0.6671 0.9080	0.6968 0.9694	0.7621	0.8716	Ave		0.8024			15.1		20.0				
Dibromofluoromethane (Surr)	1.1548 1.1561	1.0833 1.0773	1.1110 1.0805	1.2140	1.0867	Ave		1.1205			4.4		20.0				
1,2-Dichloroethane-d4 (Surr)	1.5592 1.5517	1.5381 1.4880	1.5677 1.5085	1.6407	1.5020	Ave		1.5445			3.1		20.0				
Toluene-d8 (Surr)	1.2482 1.2279	1.2198 1.1966	1.2264 1.2150	1.2276	1.2410	Ave		1.2253			1.3		20.0				
4-Bromofluorobenzene (Surr)	0.4080 0.3807	0.4031 0.3754	0.3945 0.3787	0.3788	0.3977	Ave		0.3896			3.3		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32 Calibration End Date: 01/31/2018 18:40 Calibration ID: 32733

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-398122/7	N6813.D
Level 2	IC 480-398122/8	N6814.D
Level 3	IC 480-398122/9	N6815.D
Level 4	IC 480-398122/10	N6816.D
Level 5	IC 480-398122/11	N6817.D
Level 6	ICIS 480-398122/12	N6818.D
Level 7	IC 480-398122/13	N6819.D
Level 8	IC 480-398122/14	N6820.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	FB	Ave	++++ 264625	11526 622764	18607 1232422	57981	107595	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	13637 665584	30414 1384650	44673 2812941	138756	273953	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	10193 453733	19297 976976	33246 1967412	99212	186215	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	10109 510446	20857 1142964	36299 2329365	106393	210517	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	4653 226517	9687 458453	16501 947284	46377	91750	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	5293 243316	10025 522977	17825 1058761	54357	102319	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11599 501590	23847 1074226	39679 2184329	103313	221935	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	7675 411073	18070 900511	25440 1823554	84912	160759	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	7468 409345	16538 818653	29080 1690377	76653	162963	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 490221	20196 973831	34371 1998819	91796	201870	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	4791 239239	9998 513060	18666 1018389	49441	91703	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3404 230174	7841 508970	15745 978531	45743	87528	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	22123 886173	38154 1774411	63812 3593835	173686	374408	2.50 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	8282 439303	17854 915567	31306 1825247	87993	173593	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	12618 790724	30241 1688365	55418 3468366	149004	316837	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32

Calibration End Date: 01/31/2018 18:40

Calibration ID: 32733

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	15336 866593	32624 1787180	57510 3485425	164517	343086	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	22440 982107	41490 1981806	73288 4092395	184540	412662	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	++++ 303525	18725 600609	26951 1197927	61129	128966	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	10535 566349	20271 1015211	42077 2200196	105544	225027	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	17011 938815	36605 1943716	63801 3941492	186512	392478	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4649 292050	11247 595489	21363 1206291	55786	114461	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	48298 2394737	92073 4781685	164388 9878233	468895	991075	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	10153 642456	20214 1398929	45541 2770815	125271	238509	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	10744 640940	22473 1336306	47275 2707831	123419	260289	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	44283 2607011	95639 5323699	166395 10941857	489257	1034177	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	6957 366270	14549 770333	24561 1527046	65958	143414	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	6886 327886	11468 697032	22715 1373537	58936	131901	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	33168 1565741	60003 3098811	105056 6427664	299841	638528	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	3220 169108	6390 329320	11412 672914	29667	67371	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	11199 413852	18576 841339	31899 1716692	84381	173368	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	10759 508706	19750 1045179	38321 2116948	96460	204758	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6385 425143	16878 914998	30951 1818057	78021	167133	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	10793 776670	26096 1693293	53244 3317281	145448	281321	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	5036 370390	13915 803850	24351 1621534	66011	134874	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	6815 380399	17114 815417	28435 1629162	72447	155186	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	13770 817866	29714 1648145	52550 3466060	151932	323301	12.5 625	25.0 1250	50.0 2500	125	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32

Calibration End Date: 01/31/2018 18:40

Calibration ID: 32733

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	22423 1188652	44795 2443308	79992 4960572	224696	457468	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	12020 547432	21628 1092878	40795 2191224	108049	226183	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	9585 738362	24669 1614503	48090 3229264	142574	273709	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5774 316450	13072 640755	19679 1297719	56132	122193	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	++++ 488257	15054 1082010	31498 2161063	89522	175636	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	5600 376635	13956 772297	26150 1576727	70088	148629	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	3132 182632	7987 378515	14598 768619	33553	74960	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 71068	2505 137426	3873 278560	14143	27858	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	6451 390833	15364 825311	24429 1719338	69886	154243	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	5253 283200	9343 566687	18843 1158410	48716	109386	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	8149 457430	15689 969389	29788 1972102	83178	175085	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	20289 1109137	39298 2220382	70720 4543249	212102	455782	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	15607 761046	28823 1547669	51152 3138728	131093	300215	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6190 424295	15422 887570	26254 1853998	73276	170047	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	7503 402303	16242 848267	27995 1721209	72818	169730	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3650 226910	8996 462328	15077 936917	38582	86626	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5506 324845	12525 693717	23800 1355280	57374	127663	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	8069 466511	16072 909690	29332 1887193	88951	184678	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	39927 2364259	95945 4735617	158614 9497209	470153	989414	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	4399 301564	9851 640223	19619 1337439	53442	118435	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4387 280105	10127 594218	19702 1212433	52052	116704	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32 Calibration End Date: 01/31/2018 18:40 Calibration ID: 32733

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14173 846085	32332 1771526	57846 3579873	157204	339368	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3735 301538	8973 626784	17831 1274567	54926	118492	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	23116 1380680	48986 2871982	97684 5809699	250674	540953	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	10802 557123	20980 1155511	35329 2316813	94516	222833	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	8173 556530	20063 1138342	34967 2283106	101129	222306	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14980 926713	32561 1936122	62775 3902291	167055	367429	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2796 190944	7543 417692	10893 885742	31593	74059	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	23609 1401359	47410 2924587	90442 5852766	262952	552824	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	6162 354369	14071 729404	24460 1471819	61477	146583	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6167 379298	12483 761648	25165 1524021	71551	155676	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2459 115624	4812 242035	7002 465147	22687	46820	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	3432 200893	7026 395164	12453 784598	37416	74080	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	25292 1611398	58239 3316997	106788 6627398	291476	627693	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5968 334551	12715 698990	22817 1370792	65560	135124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19004 1180353	41489 2399540	73136 4771077	210262	454872	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	17882 1110014	40163 2249887	74573 4511562	209716	442416	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3552 269047	8926 564827	19052 1087476	50023	101100	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19154 1203676	42017 2440651	75863 4900762	218911	470537	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	24500 1468447	52299 3071333	97099 6193860	260861	580034	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	10975 710448	25665 1402193	48411 2798366	128738	272506	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	17976 1354651	45440 2827136	86963 5605144	242476	542101	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 15:32 Calibration End Date: 01/31/2018 18:40 Calibration ID: 32733

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	10845 712715	26585 1413437	48987 2857688	133976	276263	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16664 1126669	36795 2333199	72826 4614898	197941	434824	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10759 668900	22206 1347031	44129 2668697	122991	266279	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	898 61036	1794 132334	3754 284524	12050	25084	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	6808 429723	12968 868821	26482 1775955	72989	164311	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3313 191602	7364 384572	13008 800288	38244	79036	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	17037 1126771	32362 2359825	67765 4963186	191516	434432	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5384 364462	11100 741342	22839 1587263	62158	142740	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	246870 244158	240219 238649	234849 236132	247720	238909	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	333315 327714	341063 329648	331388 329667	334782	330193	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	951400 975086	962912 965285	942431 993368	948695	947502	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	311011 302324	318235 302828	303145 309624	292716	303655	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Jan-2018 15:32:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0068951-007
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:10 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 08:14:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	213776	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	92	762236	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	409234	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	93	246870	25.0	25.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	333315	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	97	951400	25.0	25.5	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	91	311011	25.0	26.2	
11 Dichlorodifluoromethane	85	1.324	1.330	-0.006	37	4918	0.5000	0.4418	M
13 Chloromethane	50	1.507	1.501	0.006	81	13637	0.5000	0.5049	M
14 Vinyl chloride	62	1.586	1.586	0.000	93	10193	0.5000	0.5394	
144 Butadiene	54	1.616	1.616	0.000	90	10109	0.5000	0.4844	
15 Bromomethane	94	1.896	1.902	-0.006	31	4653	0.5000	0.5105	
16 Chloroethane	64	1.981	1.981	0.000	38	5293	0.5000	0.5234	M
18 Trichlorofluoromethane	101	2.218	2.188	0.030	14	7675	0.5000	0.4690	
17 Dichlorofluoromethane	67	2.182	2.194	-0.012	45	11599	0.5000	0.5398	a
19 Ethyl ether	59	2.474	2.474	0.000	87	7468	0.5000	0.4727	
20 Acrolein	56	2.632	2.626	0.006	93	12576	2.50	3.29	M
22 1,1-Dichloroethene	96	2.687	2.681	0.006	50	4791	0.5000	0.4946	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.681	2.699	-0.018	1	3404	0.5000	0.3939	
23 Acetone	43	2.790	2.784	0.006	97	22123	2.50	3.04	
24 Iodomethane	142	2.833	2.827	0.006	48	8282	0.5000	0.4793	
25 Carbon disulfide	76	2.875	2.869	0.006	86	12618	0.5000	0.4155	M
27 3-Chloro-1-propene	41	3.034	3.040	-0.006	84	15336	0.5000	0.4670	
28 Methyl acetate	43	3.088	3.082	0.006	94	22440	1.00	1.13	a
30 Methylene Chloride	84	3.167	3.167	0.000	89	14100	0.5000	0.7072	M
31 2-Methyl-2-propanol	59	3.344	3.338	0.006	94	10535	5.00	4.96	M
33 trans-1,2-Dichloroethene	96	3.411	3.405	0.006	71	4649	0.5000	0.4185	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	95	17011	0.5000	0.4646	
34 Acrylonitrile	53	3.435	3.429	0.006	99	48298	5.00	5.16	
35 Hexane	57	3.618	3.624	-0.006	90	10153	0.5000	0.4222	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	94	10744	0.5000	0.4375	
39 Vinyl acetate	43	3.867	3.867	0.000	97	44283	1.00	0.9045	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	41	6957	0.5000	0.4936	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	84	6886	0.5000	0.5419	M
44 2-Butanone (MEK)	43	4.384	4.384	0.000	94	33168	2.50	2.72	M
47 Chlorobromomethane	128	4.585	4.579	0.006	84	3220	0.5000	0.5059	
49 Tetrahydrofuran	42	4.621	4.615	0.006	82	11199	1.00	1.27	
50 Chloroform	83	4.658	4.664	-0.006	95	10759	0.5000	0.5328	
51 1,1,1-Trichloroethane	97	4.804	4.792	0.012	1	6385	0.5000	0.3931	Ma
52 Cyclohexane	56	4.816	4.816	0.000	32	10793	0.5000	0.3786	M
53 Carbon tetrachloride	117	4.932	4.938	-0.006	65	5036	0.5000	0.3692	M
54 1,1-Dichloropropene	75	4.938	4.944	-0.006	84	6815	0.5000	0.4474	M
56 Isobutyl alcohol	43	5.132	5.132	0.000	62	13770	12.5	11.2	
55 Benzene	78	5.145	5.139	0.006	90	22423	0.5000	0.4930	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	96	12020	0.5000	0.5500	
59 n-Heptane	43	5.357	5.345	0.012	71	9585	0.5000	0.3543	
60 Trichloroethene	95	5.741	5.747	-0.006	1	5774	0.5000	0.4831	Ma
62 Methylcyclohexane	83	5.893	5.887	0.006	91	5906	0.5000	0.3228	M
63 1,2-Dichloropropane	63	5.978	5.972	0.006	82	5600	0.5000	0.3979	
64 Dibromomethane	93	6.106	6.100	0.006	52	3132	0.5000	0.4329	
66 1,4-Dioxane	88		6.118				ND	ND	
67 Dichlorobromomethane	83	6.258	6.258	0.000	87	6451	0.5000	0.4363	
69 2-Chloroethyl vinyl ether	63	6.544	6.538	0.006	26	5253	0.5000	0.5026	M
71 cis-1,3-Dichloropropene	75	6.684	6.678	0.006	81	8149	0.5000	0.4743	M
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	96	20289	2.50	2.48	
73 Toluene	92	6.982	6.982	0.000	98	15607	0.5000	0.5477	
75 trans-1,3-Dichloropropene	75	7.249	7.237	0.012	76	6190	0.5000	0.4057	
77 Ethyl methacrylate	69	7.298	7.304	-0.006	80	7503	0.5000	0.4864	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	79	3650	0.5000	0.4430	
79 Tetrachloroethene	166	7.517	7.523	-0.006	88	5506	0.5000	0.4532	
80 1,3-Dichloropropane	76	7.590	7.584	0.006	83	8069	0.5000	0.4786	
82 2-Hexanone	43	7.657	7.657	0.000	96	39927	2.50	2.24	M
83 Chlorodibromomethane	129	7.827	7.828	-0.001	17	4399	0.5000	0.4066	
84 Ethylene Dibromide	107	7.937	7.931	0.006	35	4387	0.5000	0.4202	
85 Chlorobenzene	112	8.424	8.418	0.006	87	14173	0.5000	0.4491	
89 1,1,1,2-Tetrachloroethane	131	8.509	8.515	-0.006	1	3735	0.5000	0.3602	M
88 Ethylbenzene	91	8.521	8.521	0.000	97	23116	0.5000	0.4545	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	10802	0.5000	0.5234	
91 o-Xylene	106	9.062	9.069	-0.007	92	8173	0.5000	0.4103	M
92 Styrene	104	9.093	9.093	0.000	92	14980	0.5000	0.4427	
93 Bromoform	173	9.318	9.324	-0.006	10	2796	0.5000	0.4038	
95 Isopropylbenzene	105	9.452	9.458	-0.006	93	23609	0.5000	0.4497	
97 Bromobenzene	156	9.792	9.793	0.000	90	6162	0.5000	0.4530	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	90	6167	0.5000	0.4377	
99 1,2,3-Trichloropropane	110	9.865	9.859	0.006	85	2459	0.5000	0.5391	M
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	40	3432	0.5000	0.4679	M
100 N-Propylbenzene	91	9.884	9.884	0.000	98	25292	0.5000	0.4221	
102 2-Chlorotoluene	126	9.981	9.981	0.000	95	5968	0.5000	0.4611	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	91	19004	0.5000	0.4396	
105 4-Chlorotoluene	91	10.090	10.091	-0.001	94	17882	0.5000	0.4293	
106 tert-Butylbenzene	134	10.389	10.383	0.006	95	3552	0.5000	0.3622	M
108 1,2,4-Trimethylbenzene	105	10.431	10.437	-0.006	95	19154	0.5000	0.4324	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.601	10.596	0.005	95	24500	0.5000	0.4442	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	93	10975	0.5000	0.4204	
111 4-Isopropyltoluene	119	10.735	10.742	-0.007	95	17976	0.5000	0.3654	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	84	10845	0.5000	0.4090	
115 n-Butylbenzene	91	11.125	11.125	0.000	93	16664	0.5000	0.4078	M
116 1,2-Dichlorobenzene	146	11.155	11.155	0.000	95	10759	0.5000	0.4368	
117 1,2-Dibromo-3-Chloropropan	75	11.885	11.885	0.000	1	898	0.5000	0.3928	M
119 1,2,4-Trichlorobenzene	180	12.579	12.573	0.006	90	6808	0.5000	0.4429	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	80	3313	0.5000	0.4471	
121 Naphthalene	128	12.786	12.786	0.000	94	17037	0.5000	0.4214	
122 1,2,3-Trichlorobenzene	180	12.980	12.986	-0.006	30	5384	0.5000	0.4099	M
S 124 1,2-Dichloroethene, Total	1				0			0.9604	
S 125 Total BTEX	1				0			2.43	
S 126 Xylenes, Total	1				0			0.9337	
S 123 1,3-Dichloropropene, Total	1				0			0.8799	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00119	Amount Added: 0.50	Units: uL	
GAS CORP mix_00262	Amount Added: 0.50	Units: uL	
N_8260_Surr_00314	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00103	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D

Injection Date: 31-Jan-2018 15:32:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 0.5

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

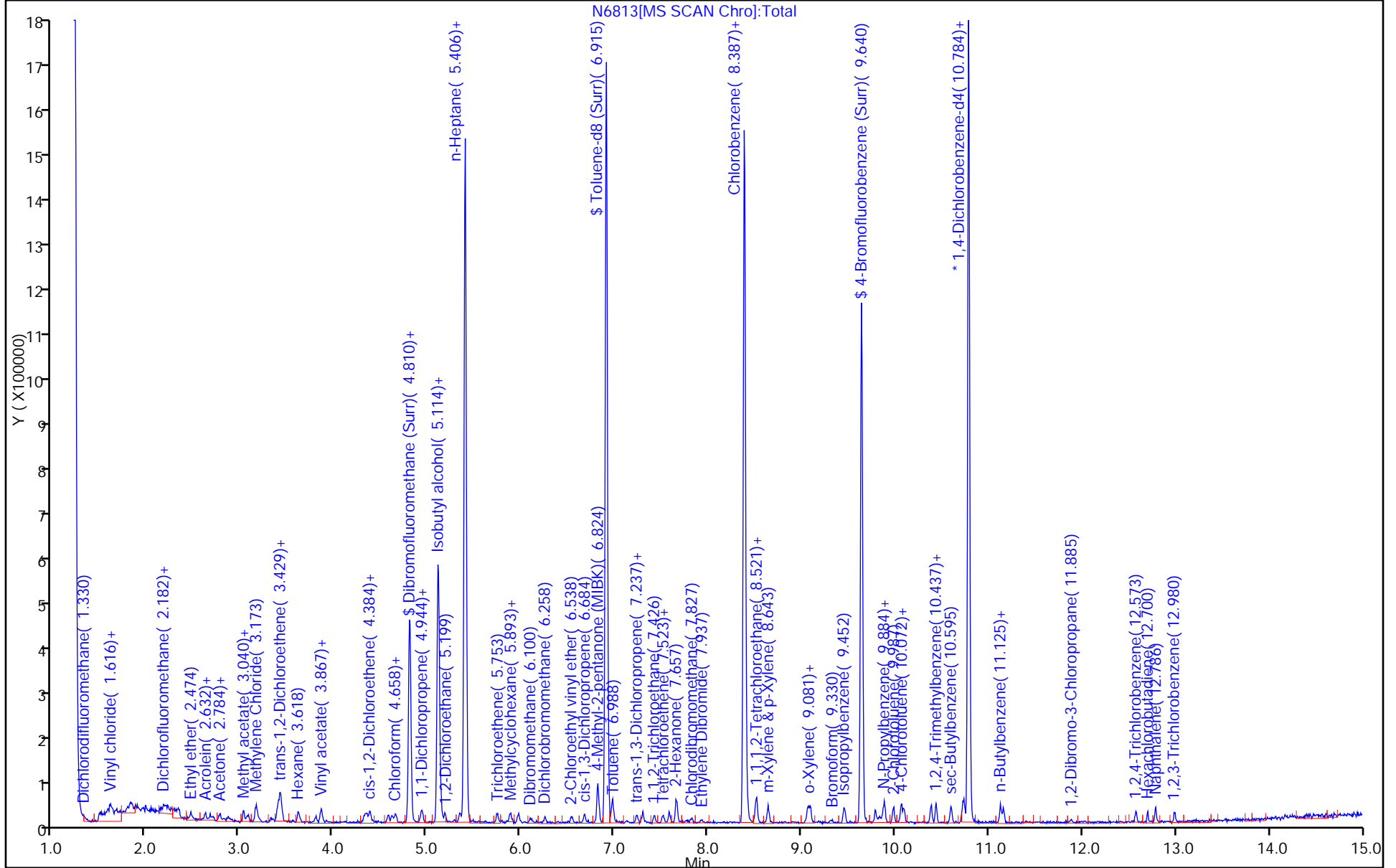
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

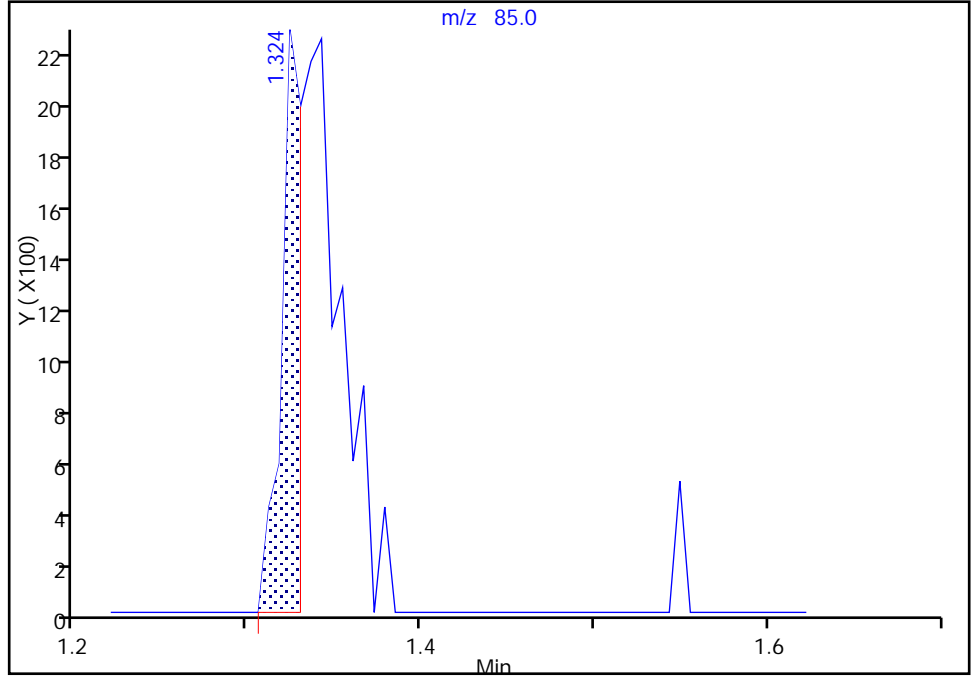
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

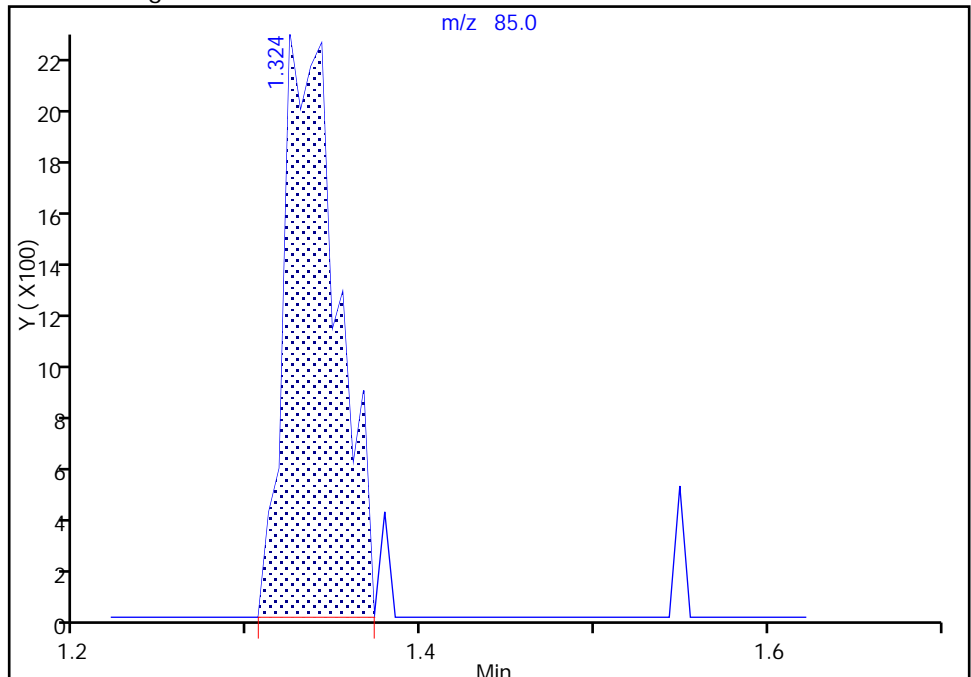
RT: 1.32
Area: 1911
Amount: 0.479752
Amount Units: ug/L

Processing Integration Results



RT: 1.32
Area: 4918
Amount: 0.441807
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:56:05
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

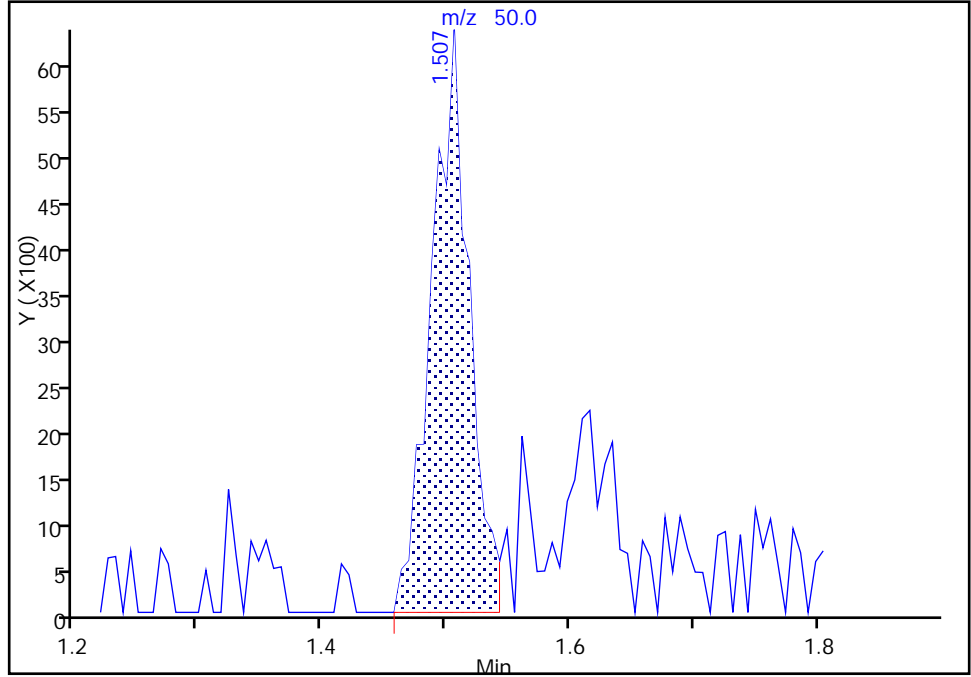
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

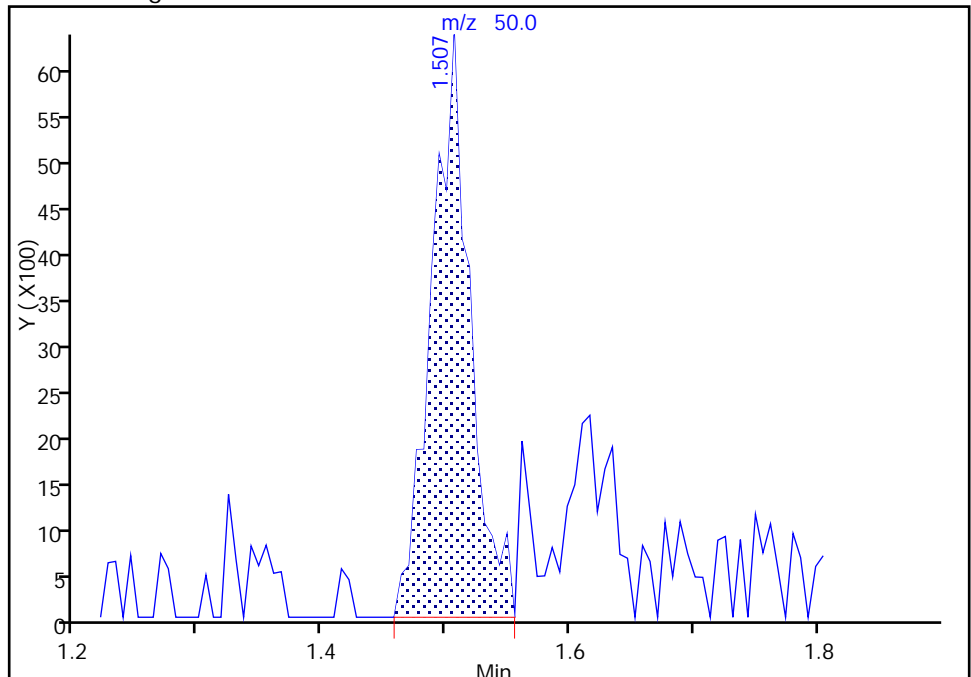
RT: 1.51
Area: 13310
Amount: 0.499873
Amount Units: ug/L

Processing Integration Results



RT: 1.51
Area: 13637
Amount: 0.504875
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:56:15
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

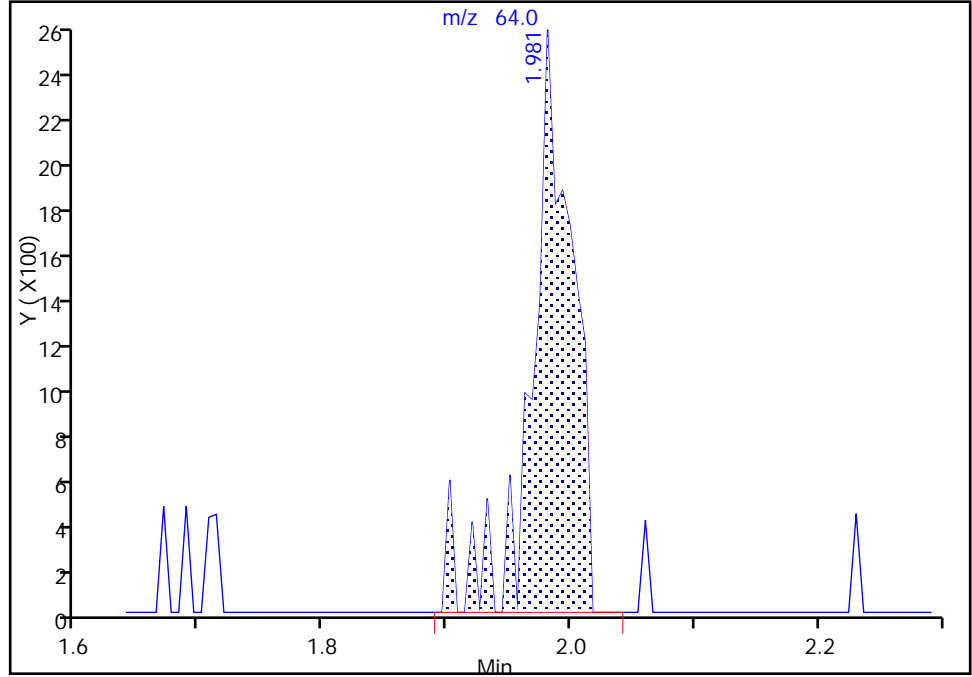
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

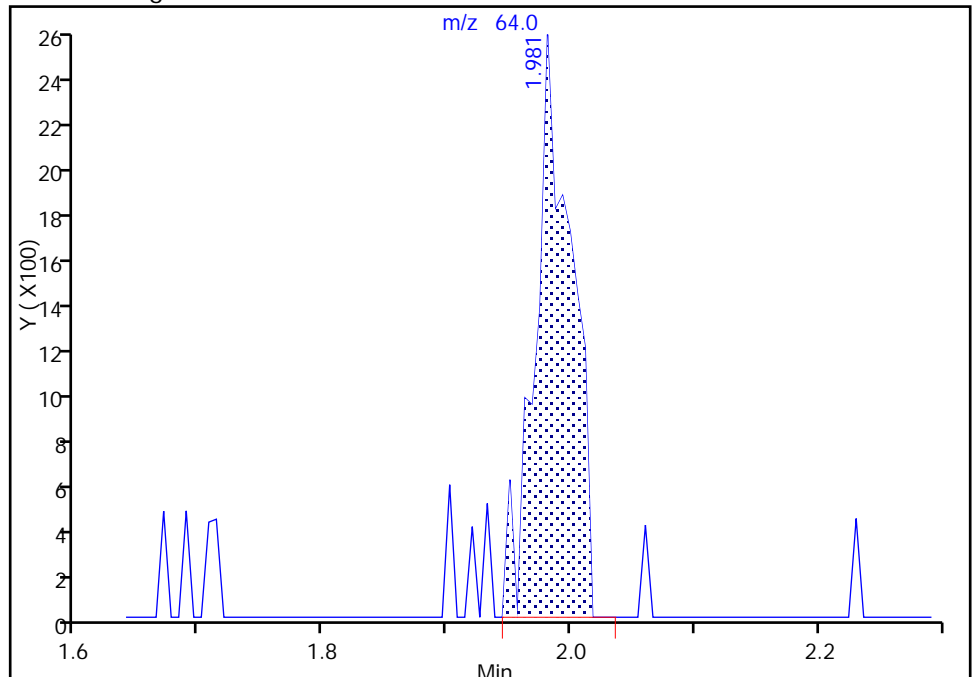
RT: 1.98
Area: 5839
Amount: 0.569681
Amount Units: ug/L

Processing Integration Results



RT: 1.98
Area: 5293
Amount: 0.523381
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:56:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

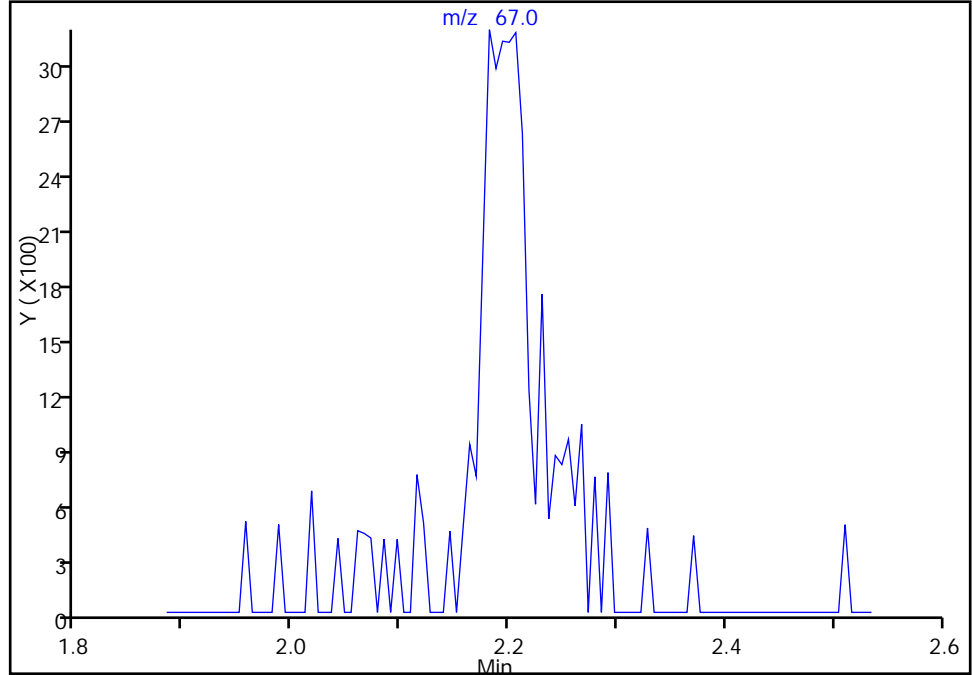
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

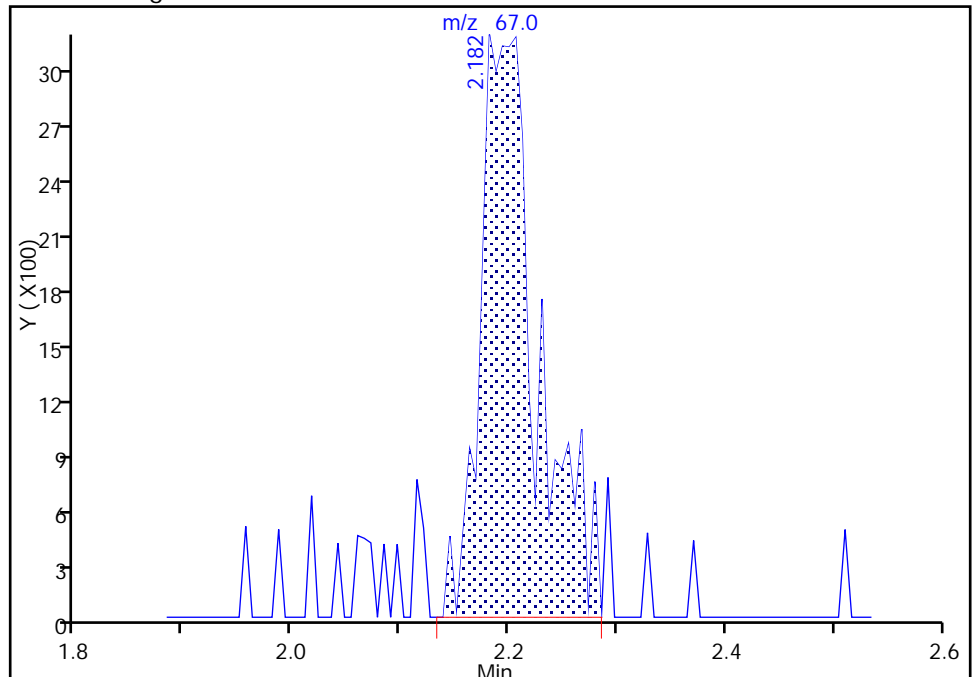
Not Detected
Expected RT: 2.19

Processing Integration Results



Manual Integration Results

RT: 2.18
Area: 11599
Amount: 0.539839
Amount Units: ug/L



Reviewer: scibilliam, 01-Feb-2018 09:56:36
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

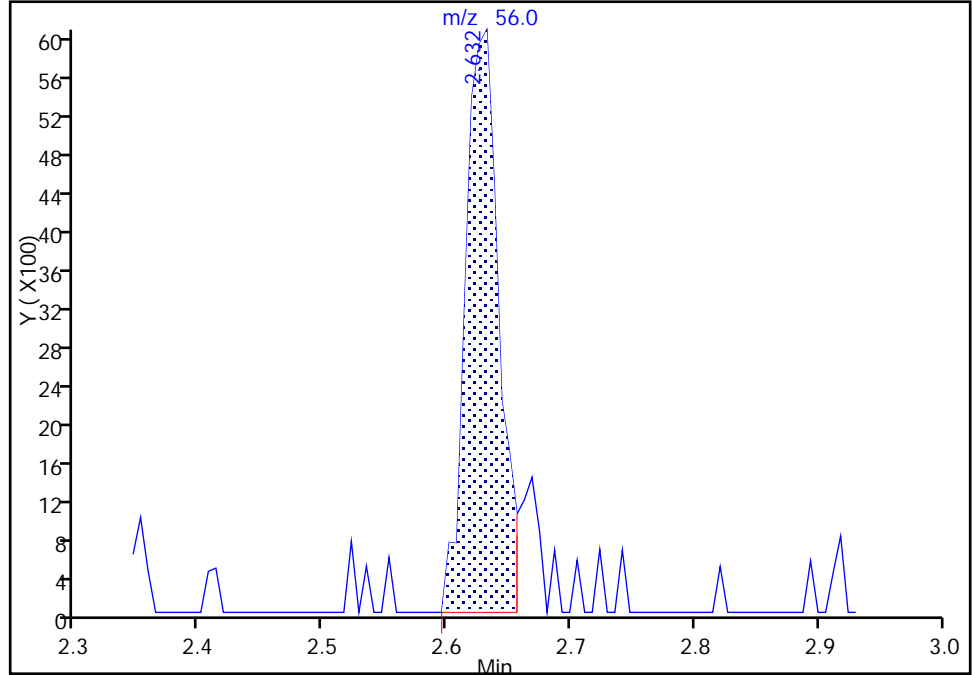
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

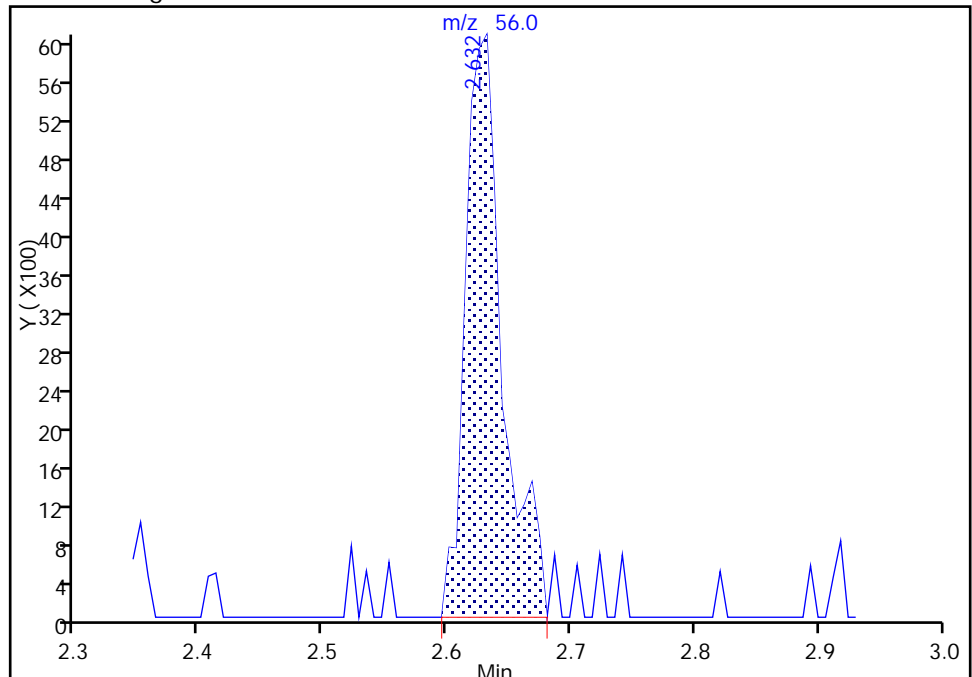
RT: 2.63
Area: 11333
Amount: 2.904701
Amount Units: ug/L

Processing Integration Results



RT: 2.63
Area: 12576
Amount: 3.286992
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:56:51
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

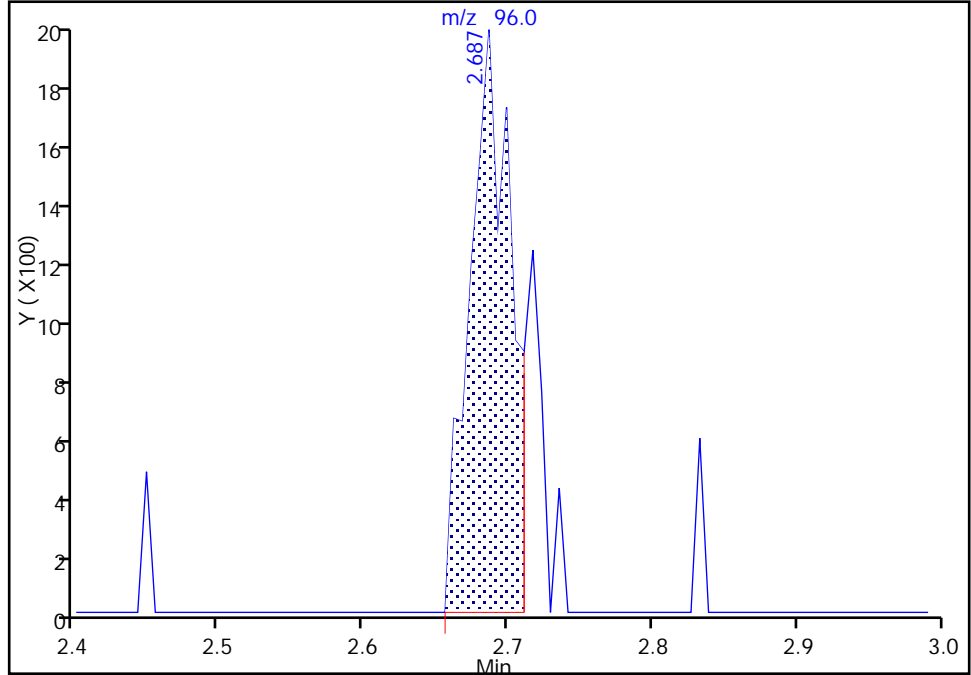
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

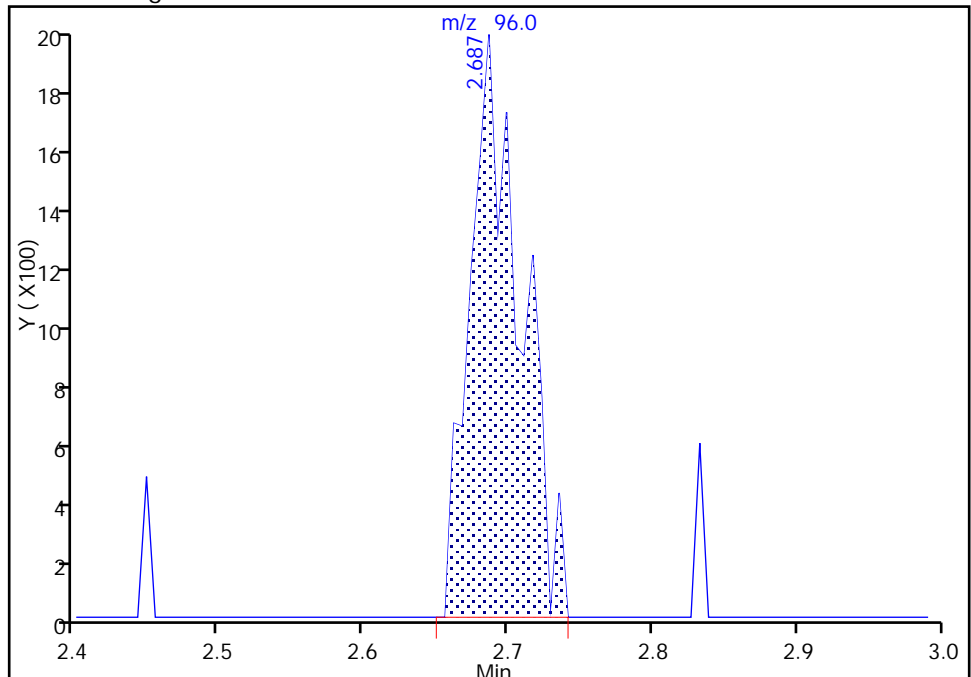
RT: 2.69
Area: 3921
Amount: 0.432762
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 4791
Amount: 0.494643
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 09:56:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

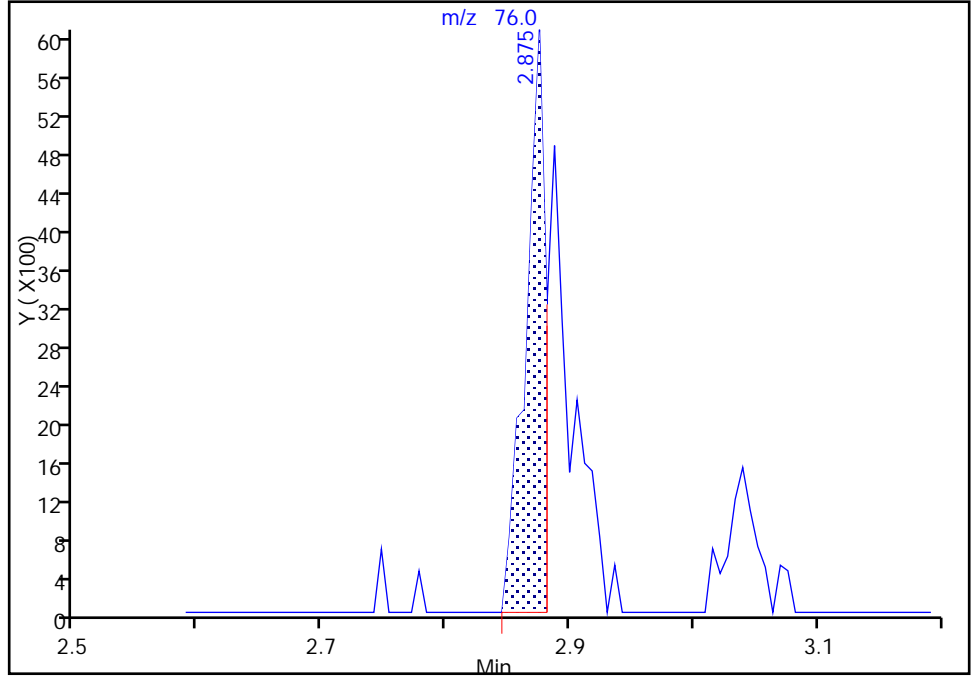
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

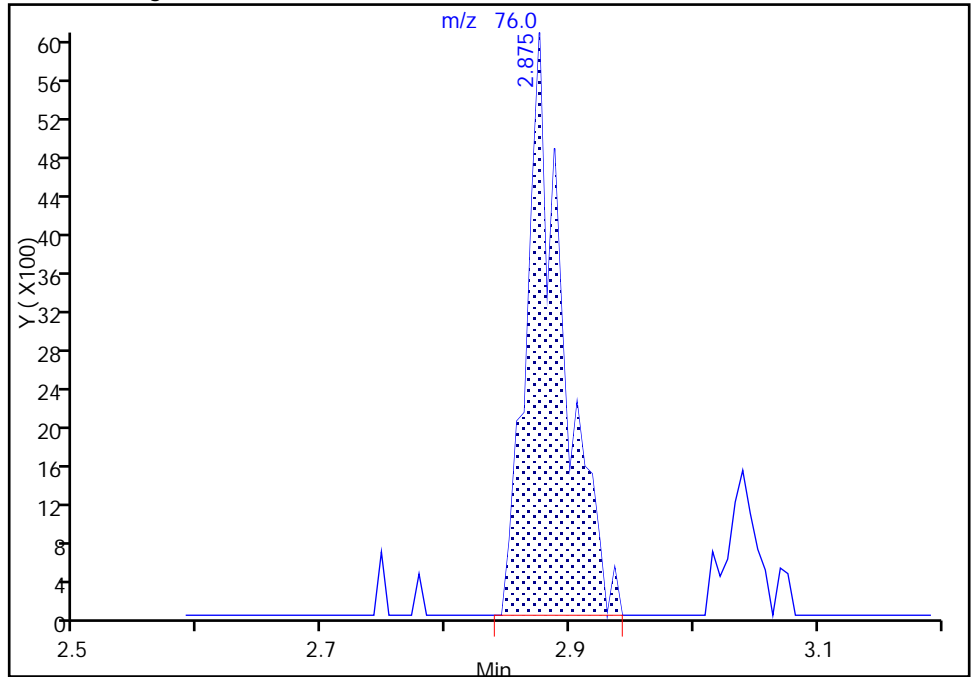
RT: 2.88
Area: 6797
Amount: 0.493119
Amount Units: ug/L

Processing Integration Results



RT: 2.88
Area: 12618
Amount: 0.415457
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:57:12
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

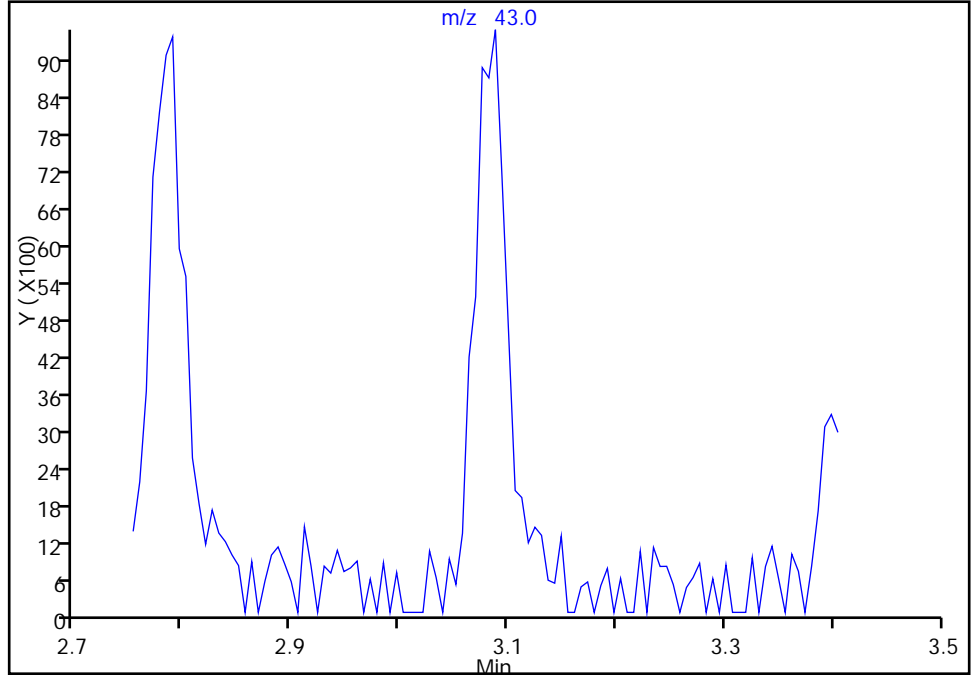
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

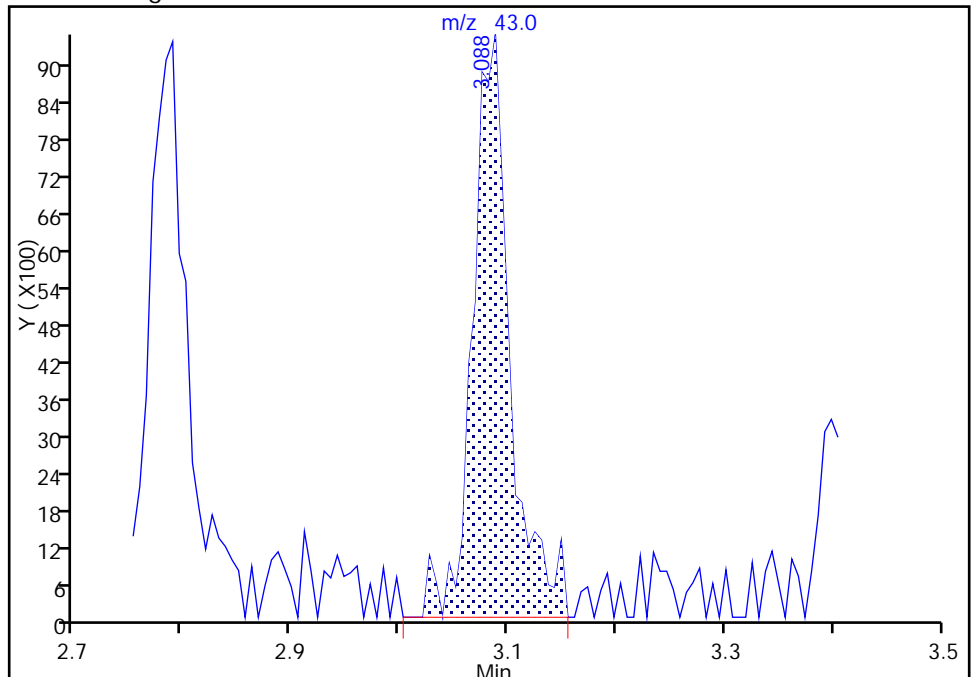
Signal: 1

Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results



RT: 3.09
Area: 22440
Amount: 1.126308
Amount Units: ug/L

TestAmerica Buffalo

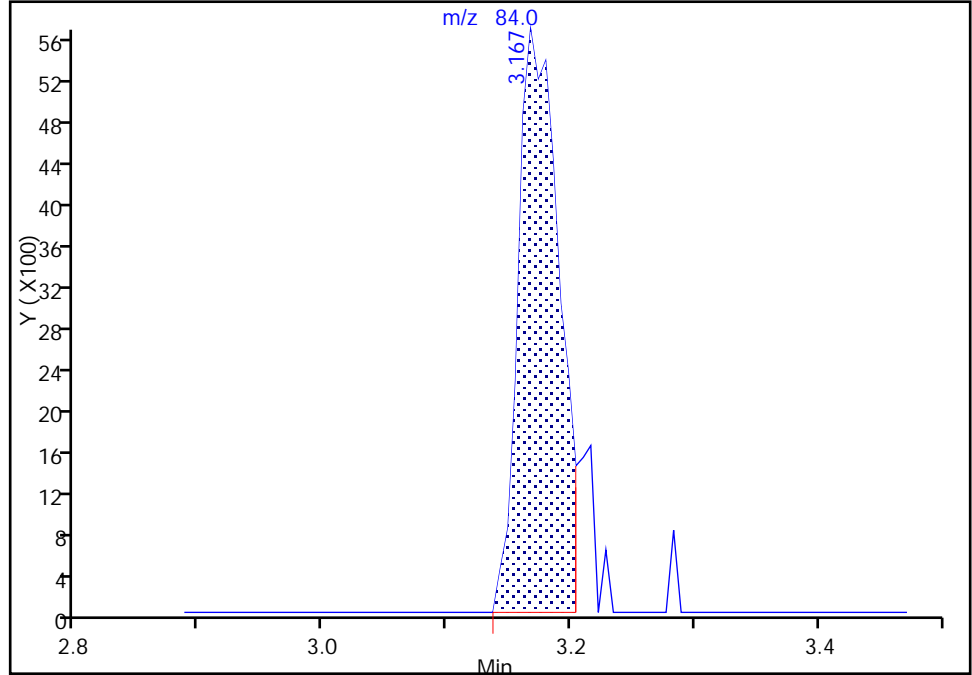
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

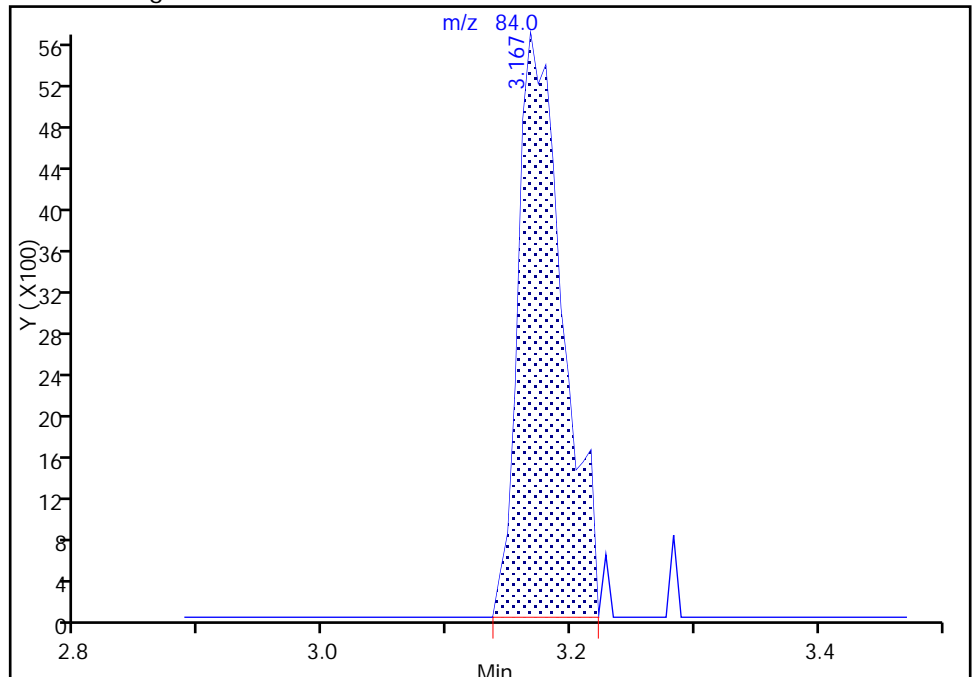
RT: 3.17
Area: 12964
Amount: 0.574823
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 14100
Amount: 0.707152
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:57:27
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

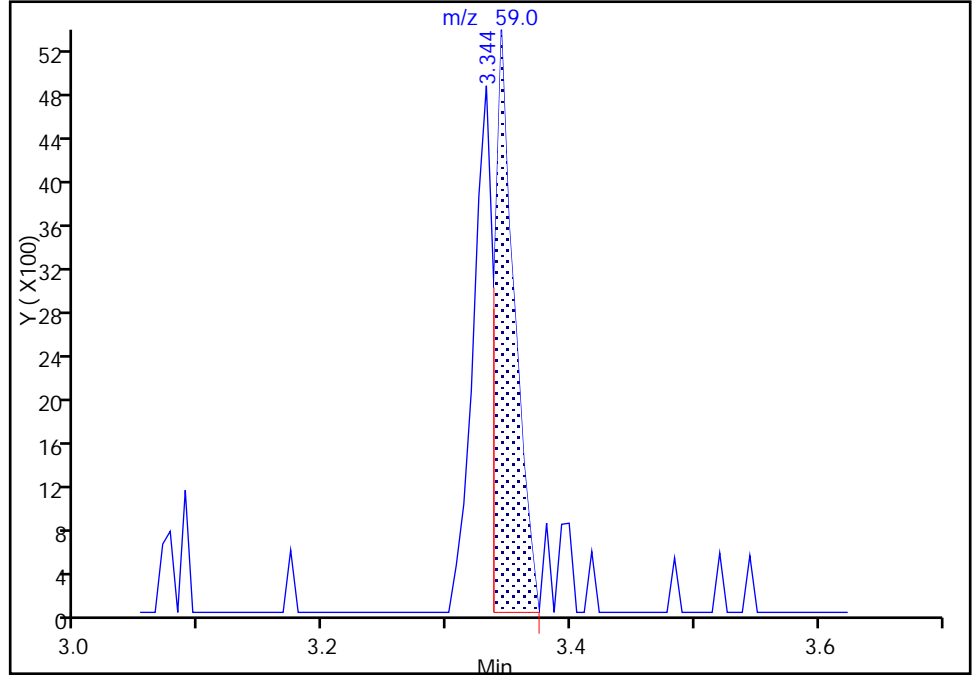
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

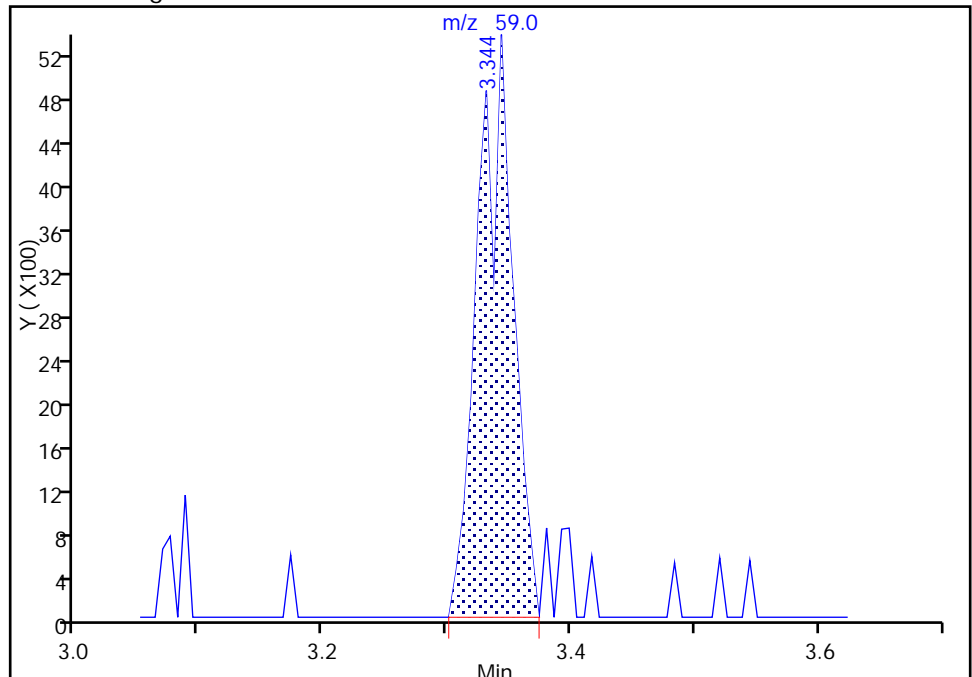
RT: 3.34
Area: 6074
Amount: 4.713751
Amount Units: ug/L

Processing Integration Results



RT: 3.34
Area: 10535
Amount: 4.959635
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:57:34
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

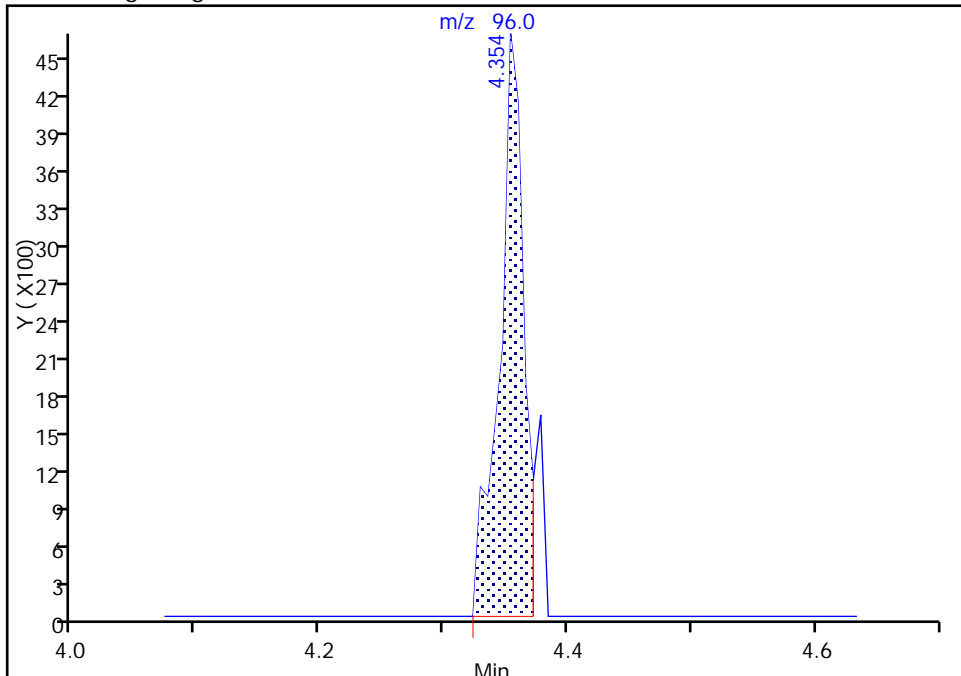
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

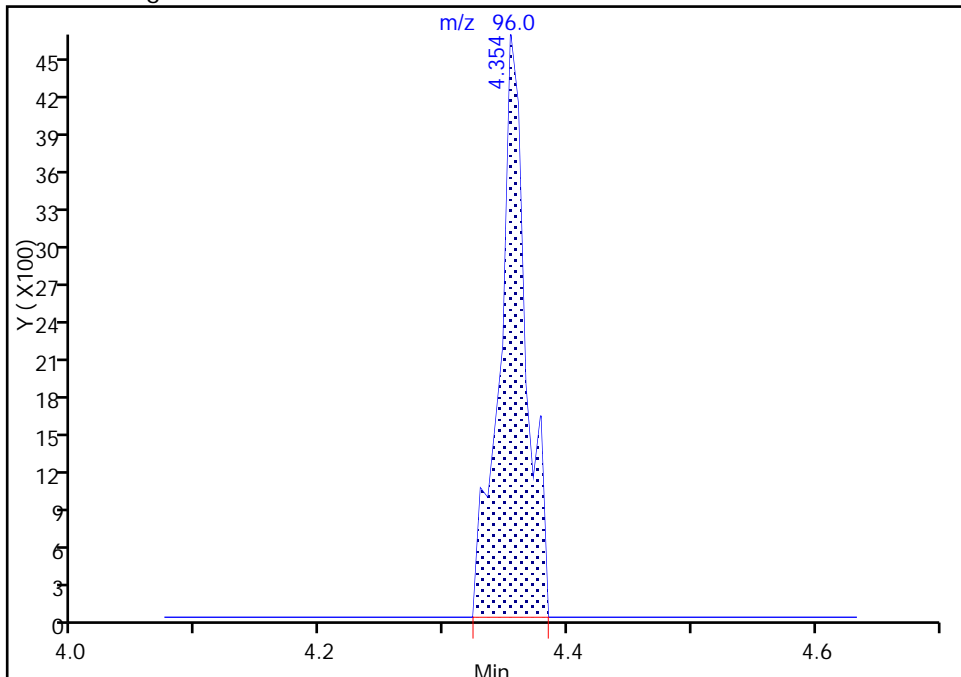
RT: 4.35
Area: 6303
Amount: 0.501796
Amount Units: ug/L

Processing Integration Results



RT: 4.35
Area: 6886
Amount: 0.541922
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:58:03
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

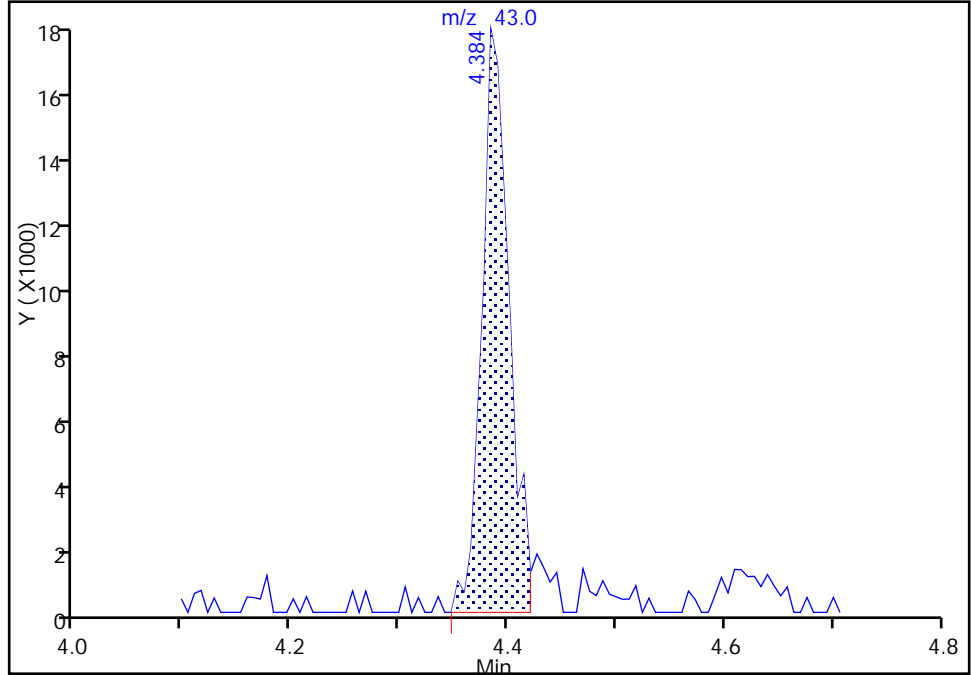
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

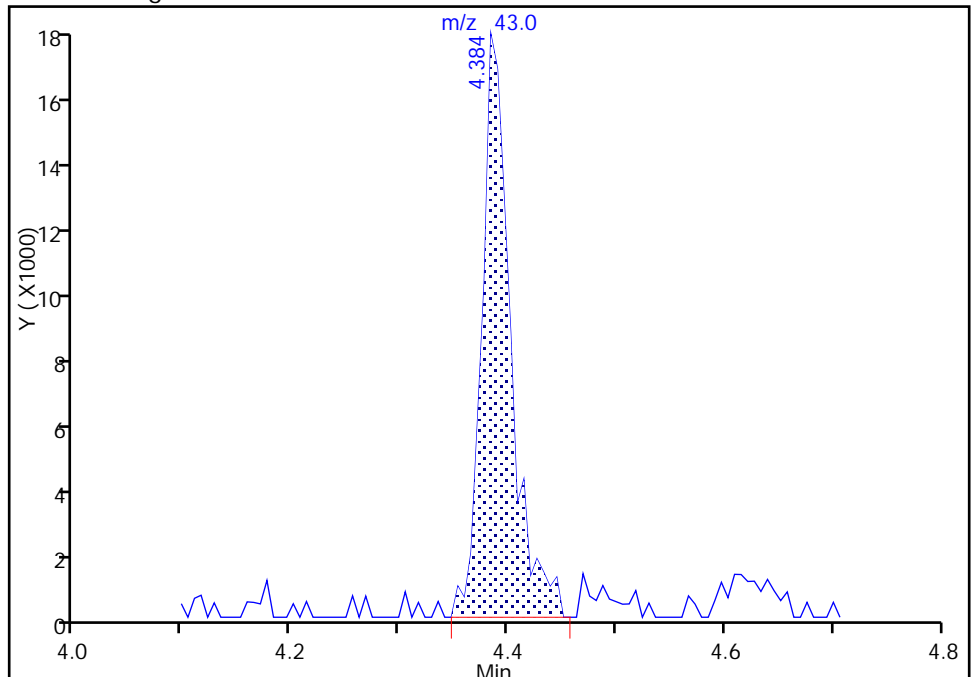
RT: 4.38
Area: 31216
Amount: 2.588960
Amount Units: ug/L

Processing Integration Results



RT: 4.38
Area: 33168
Amount: 2.717030
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:58:12
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

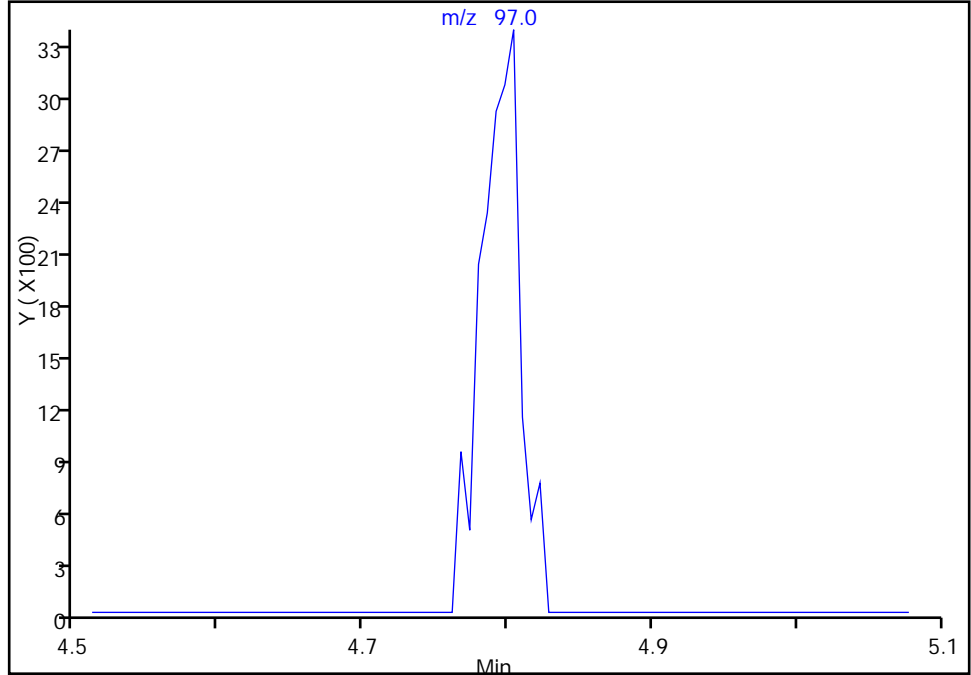
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

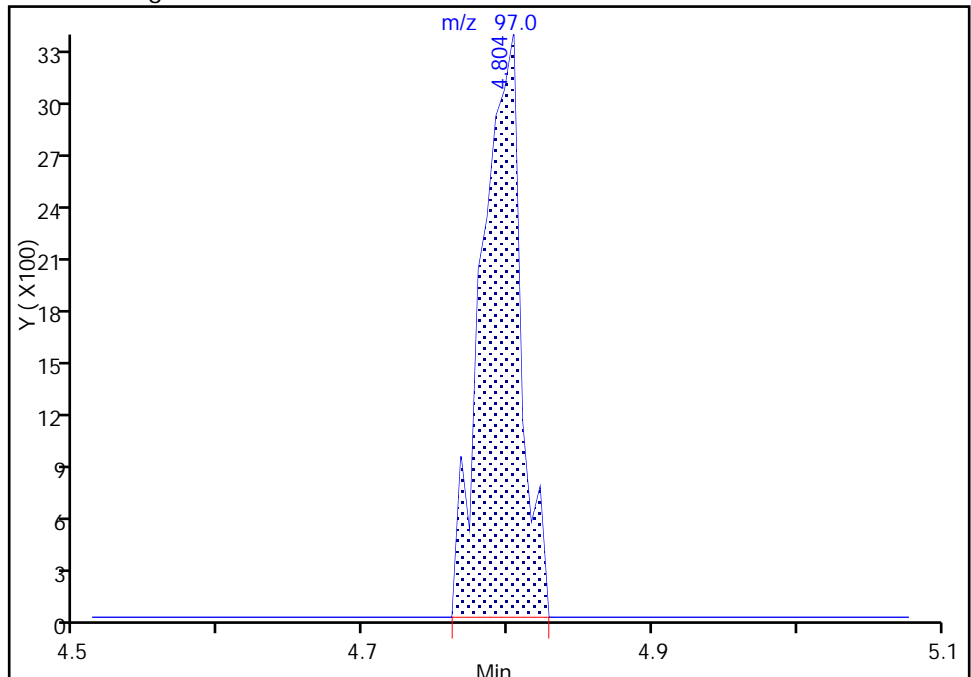
Not Detected
Expected RT: 4.79

Processing Integration Results



Manual Integration Results

RT: 4.80
Area: 6385
Amount: 0.393078
Amount Units: ug/L



Reviewer: scibilliam, 01-Feb-2018 09:58:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

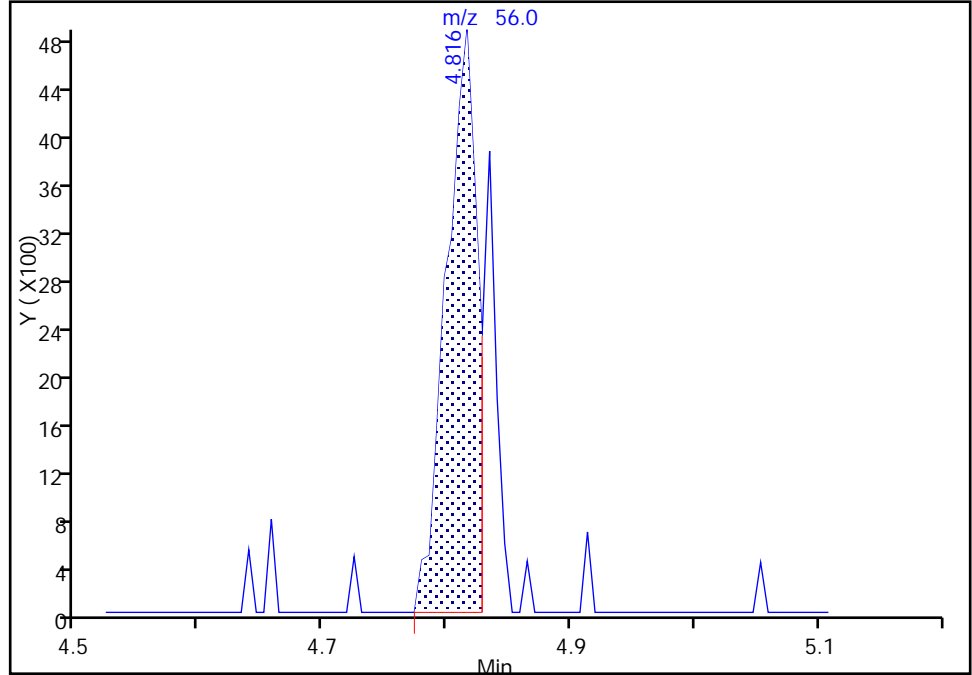
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

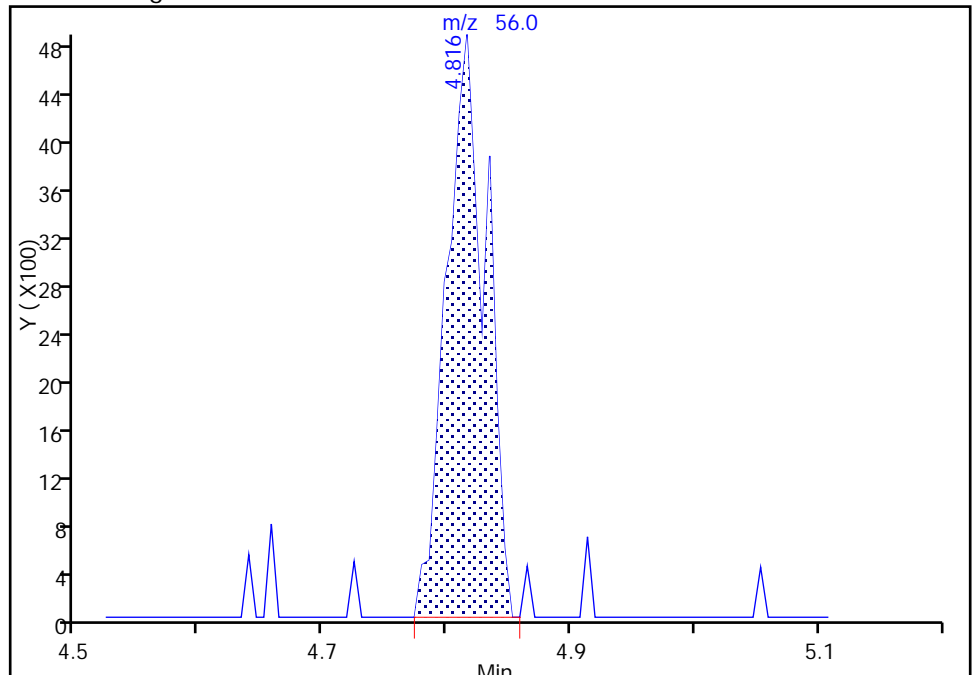
RT: 4.82
Area: 8529
Amount: 0.543015
Amount Units: ug/L

Processing Integration Results



RT: 4.82
Area: 10793
Amount: 0.378577
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:58:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

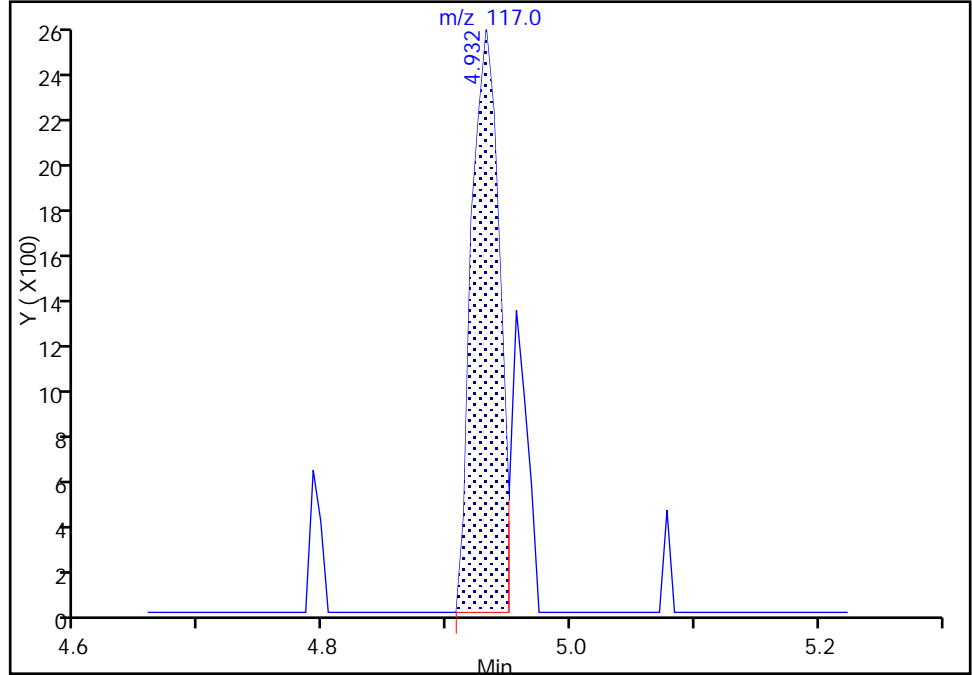
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

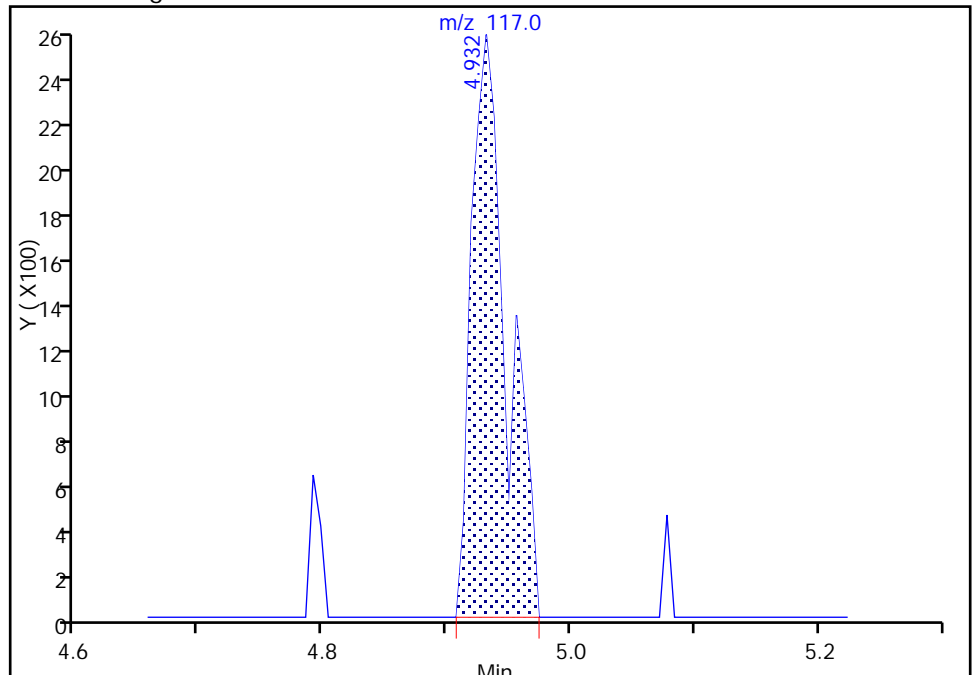
RT: 4.93
Area: 3997
Amount: 0.548847
Amount Units: ug/L

Processing Integration Results



RT: 4.93
Area: 5036
Amount: 0.369211
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:59:08
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

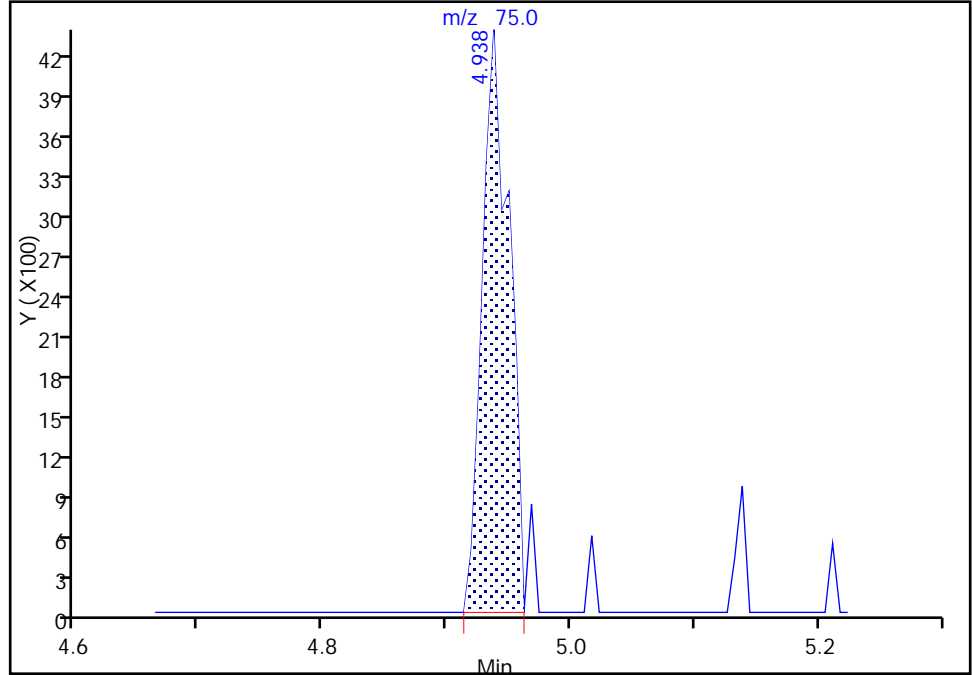
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

54 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

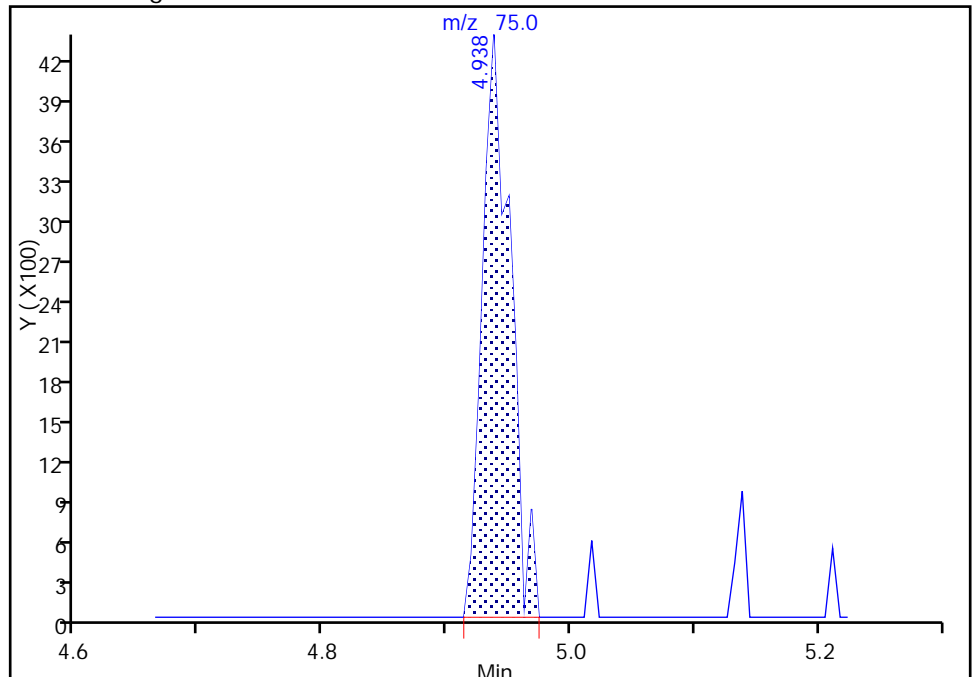
RT: 4.94
Area: 6520
Amount: 0.430139
Amount Units: ug/L

Processing Integration Results



RT: 4.94
Area: 6815
Amount: 0.447424
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:59:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

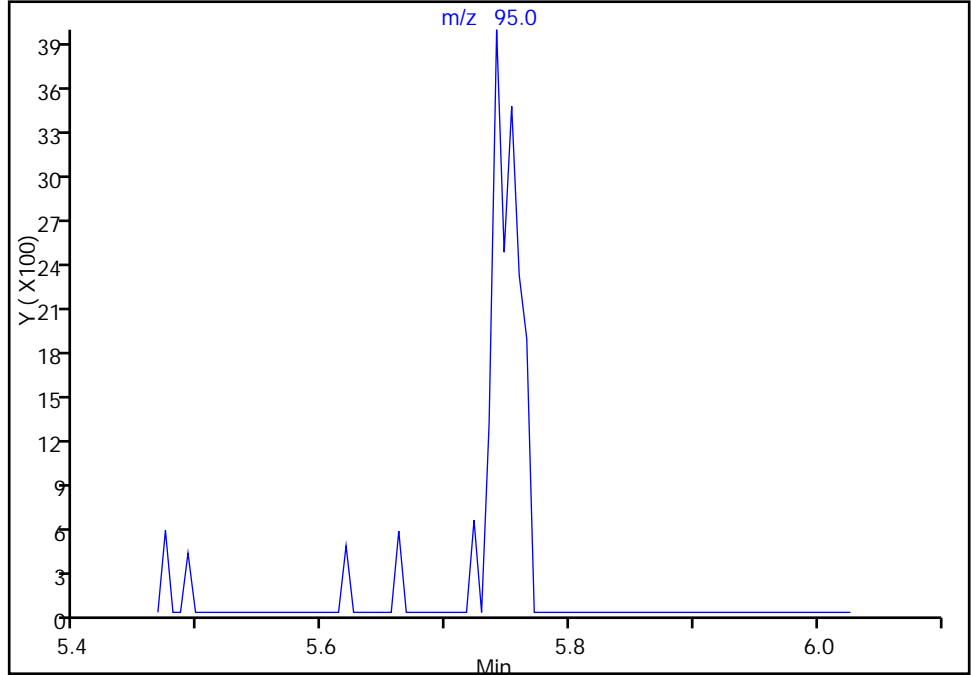
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

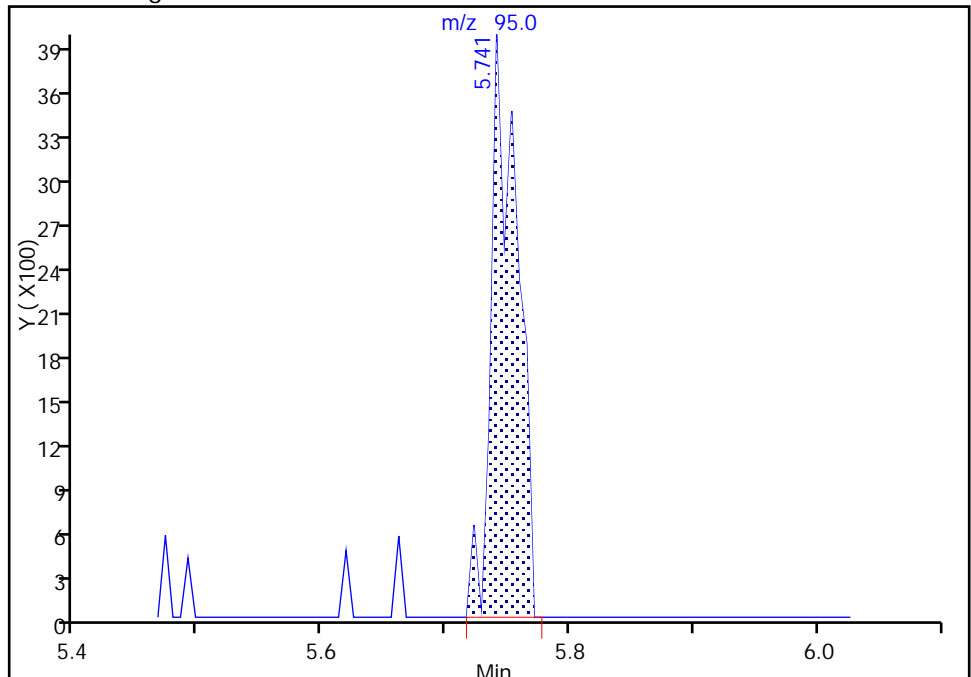
Not Detected
Expected RT: 5.75

Processing Integration Results



Manual Integration Results

RT: 5.74
Area: 5774
Amount: 0.483090
Amount Units: ug/L



Reviewer: scibiliam, 01-Feb-2018 09:59:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

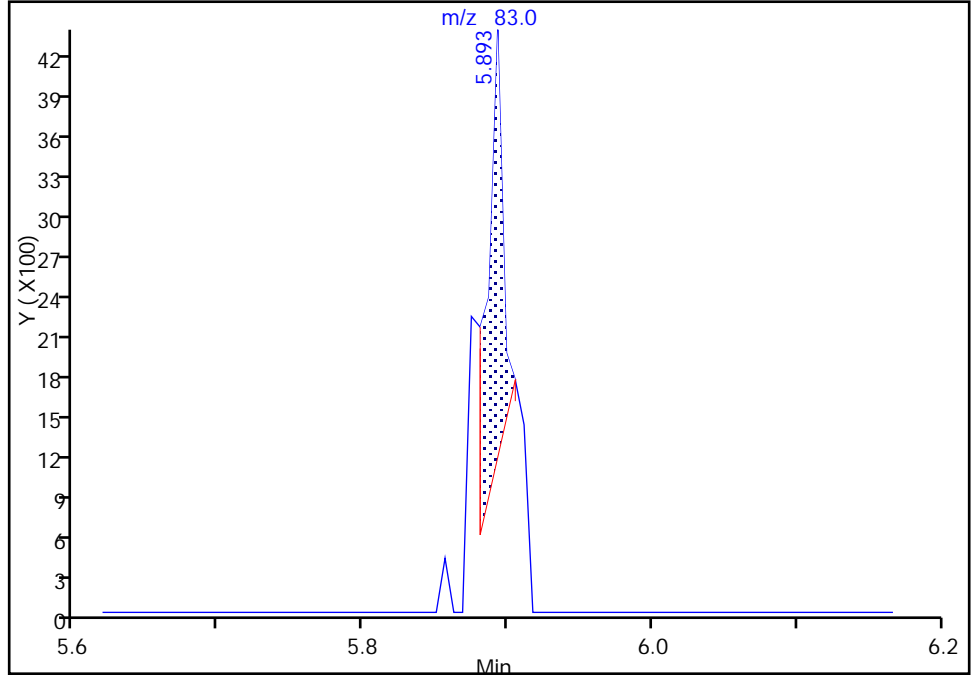
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

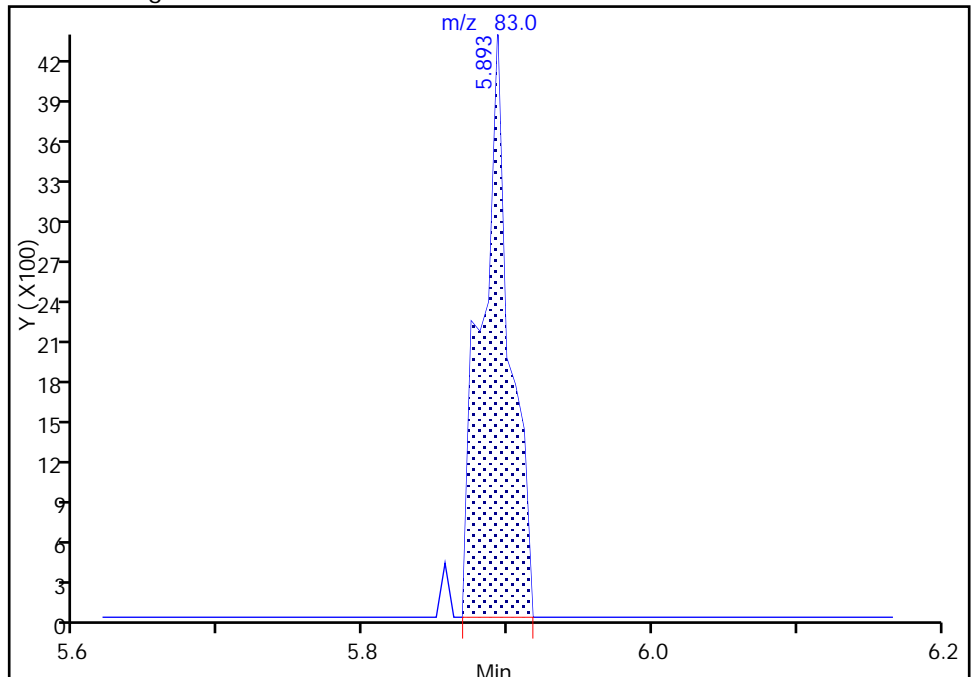
RT: 5.89
Area: 2463
Amount: 0.565419
Amount Units: ug/L

Processing Integration Results



RT: 5.89
Area: 5906
Amount: 0.322814
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:59:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

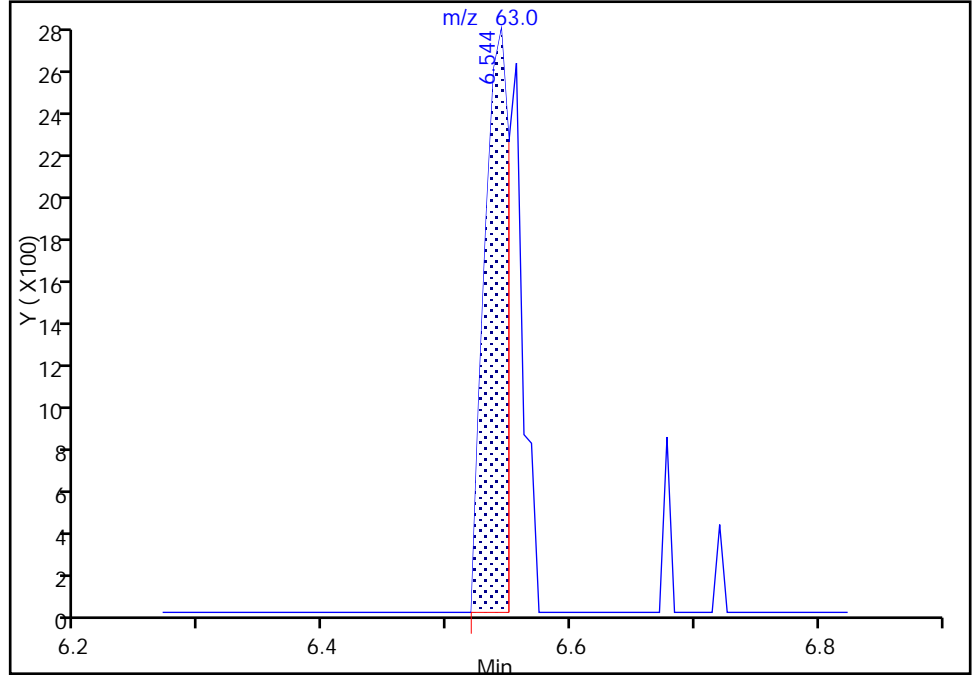
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

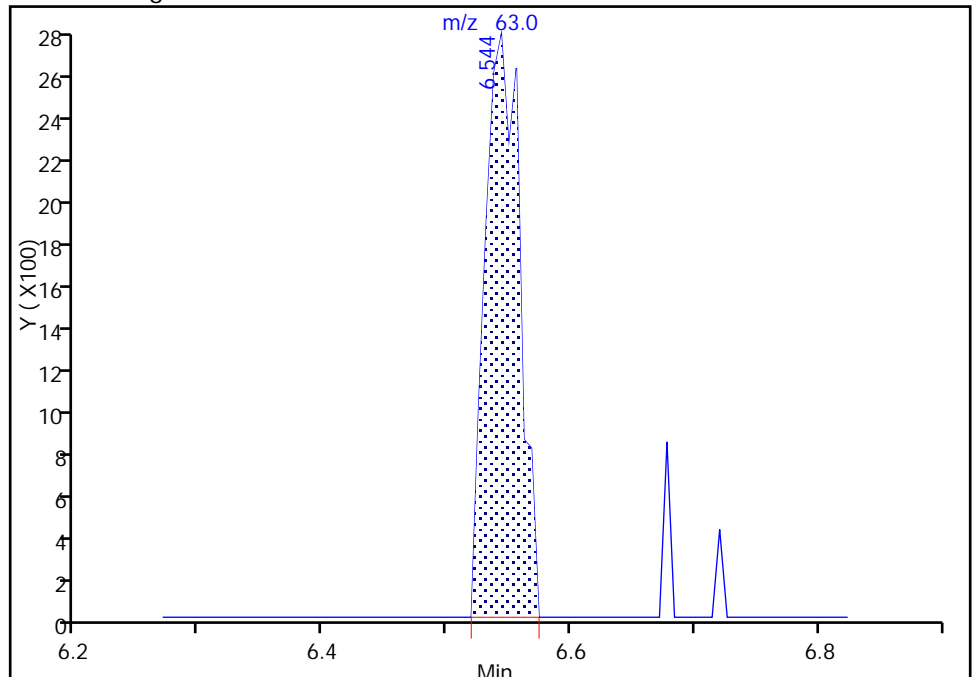
RT: 6.54
Area: 3735
Amount: 0.371813
Amount Units: ug/L

Processing Integration Results



RT: 6.54
Area: 5253
Amount: 0.502557
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:59:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

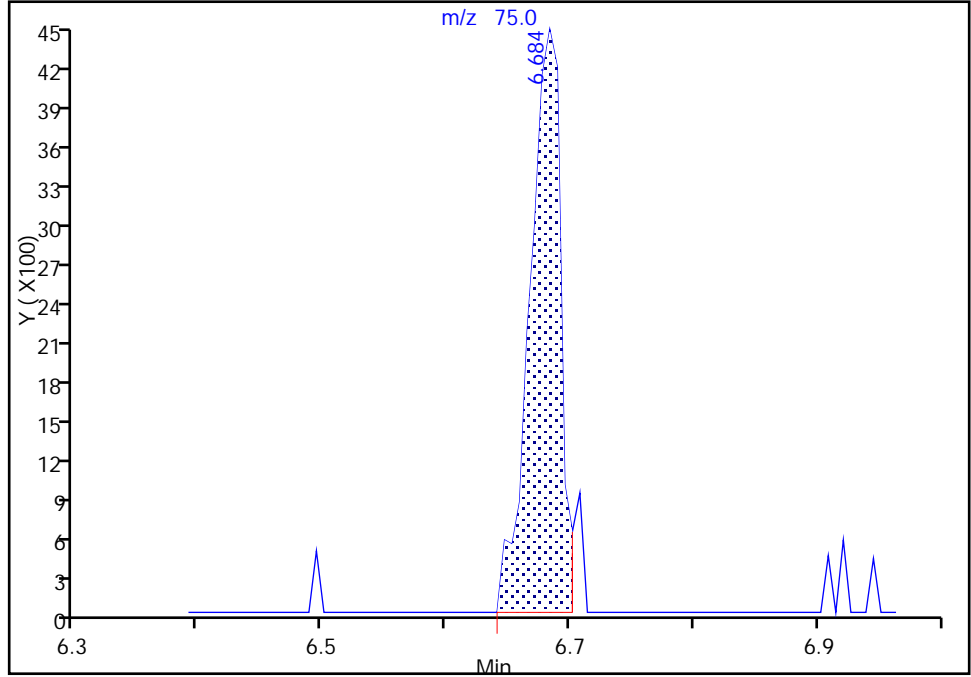
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

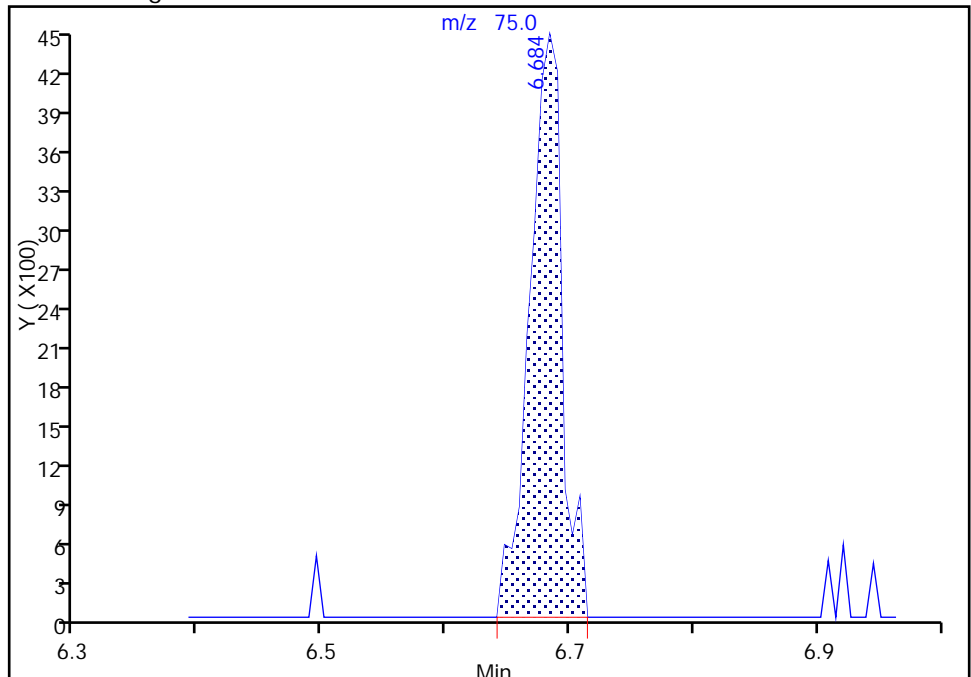
RT: 6.68
Area: 7814
Amount: 0.456992
Amount Units: ug/L

Processing Integration Results



RT: 6.68
Area: 8149
Amount: 0.474261
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:00:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

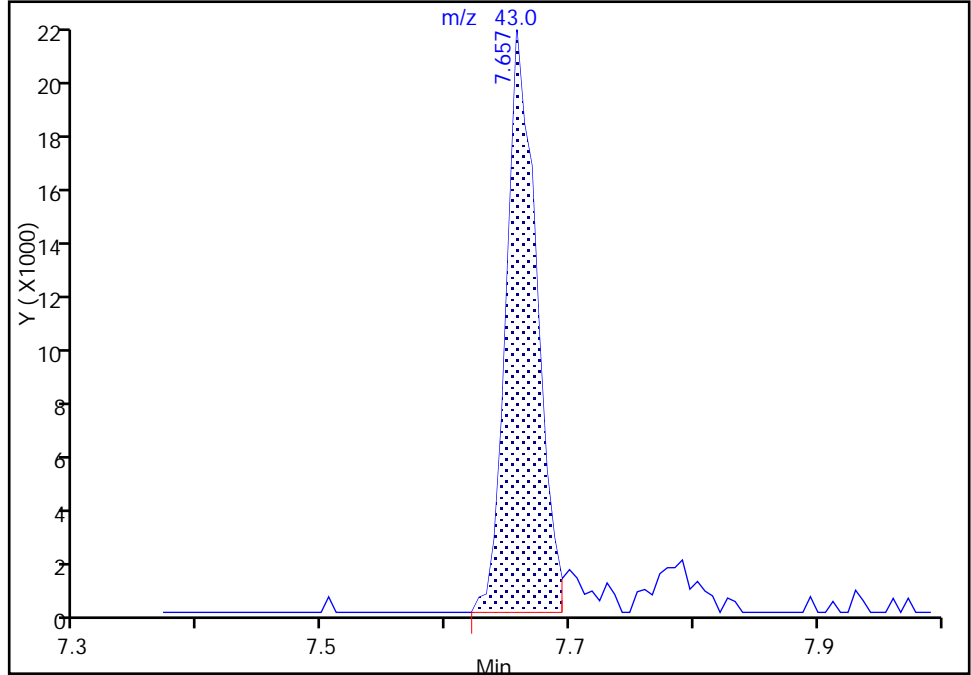
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

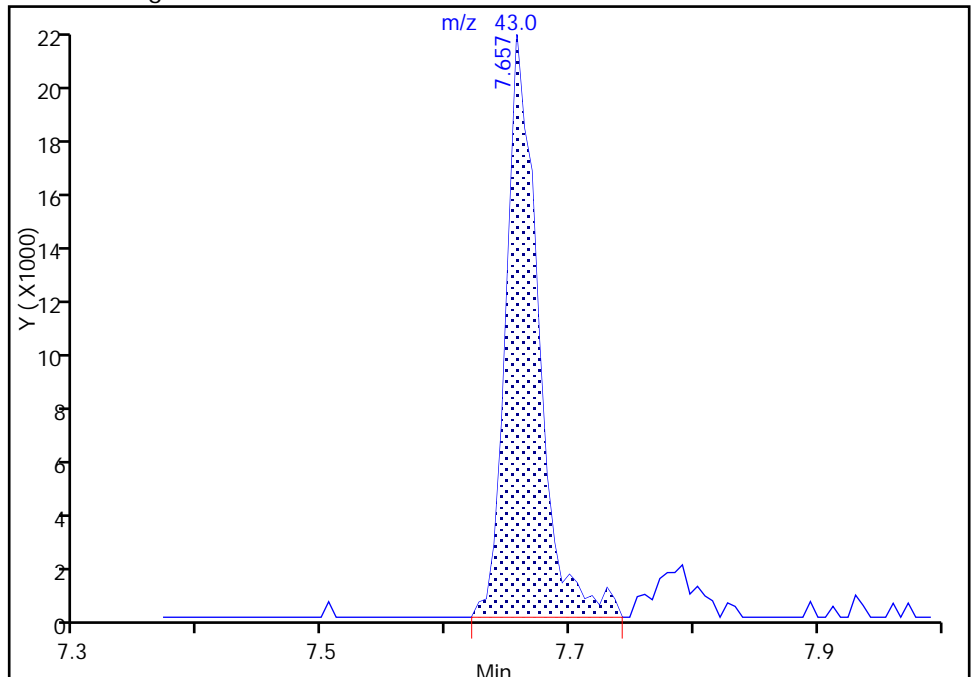
RT: 7.66
Area: 37519
Amount: 2.147953
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 39927
Amount: 2.244642
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:00:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

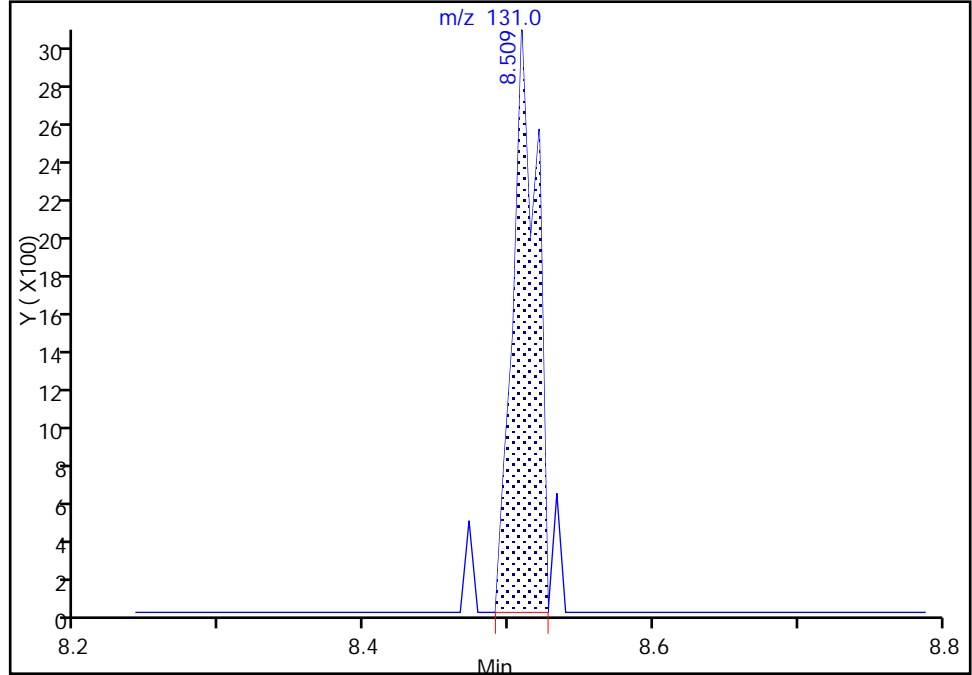
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

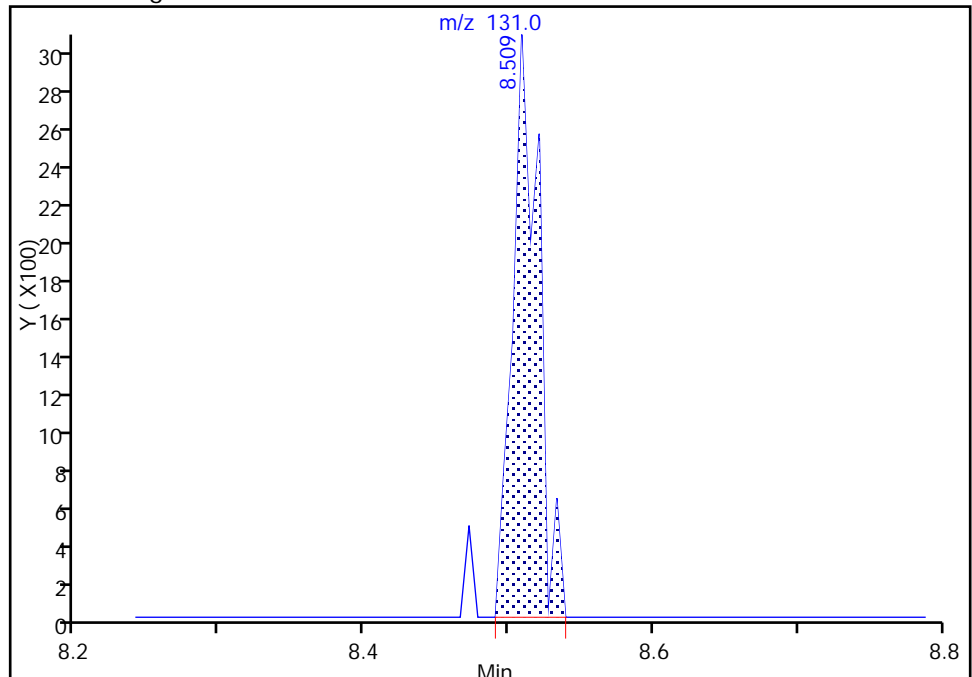
RT: 8.51
Area: 3511
Amount: 0.567901
Amount Units: ug/L

Processing Integration Results



RT: 8.51
Area: 3735
Amount: 0.360223
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:00:50
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

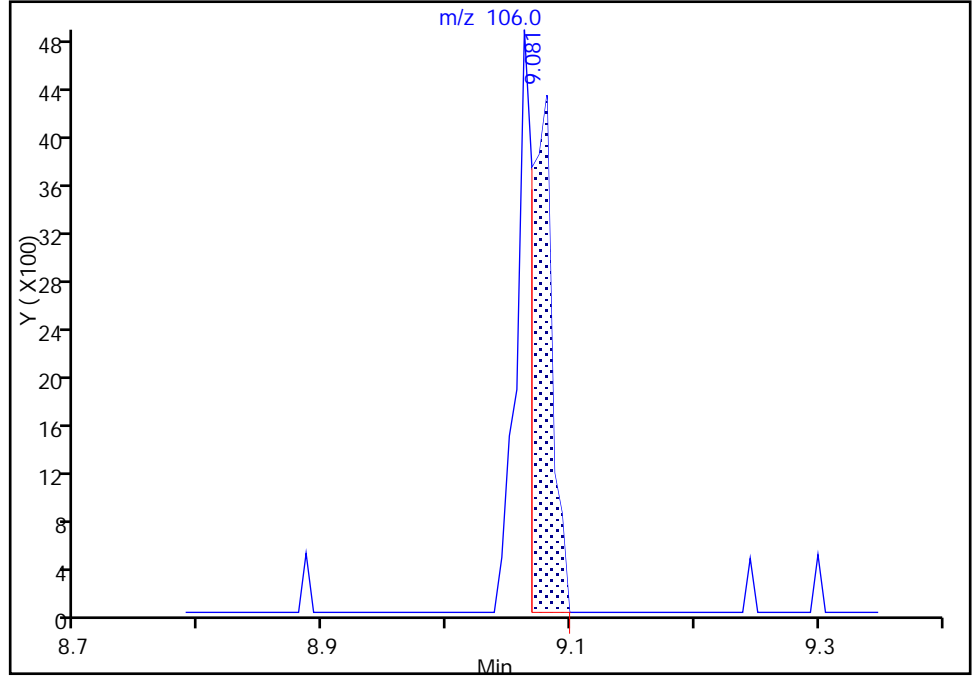
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

Signal: 1

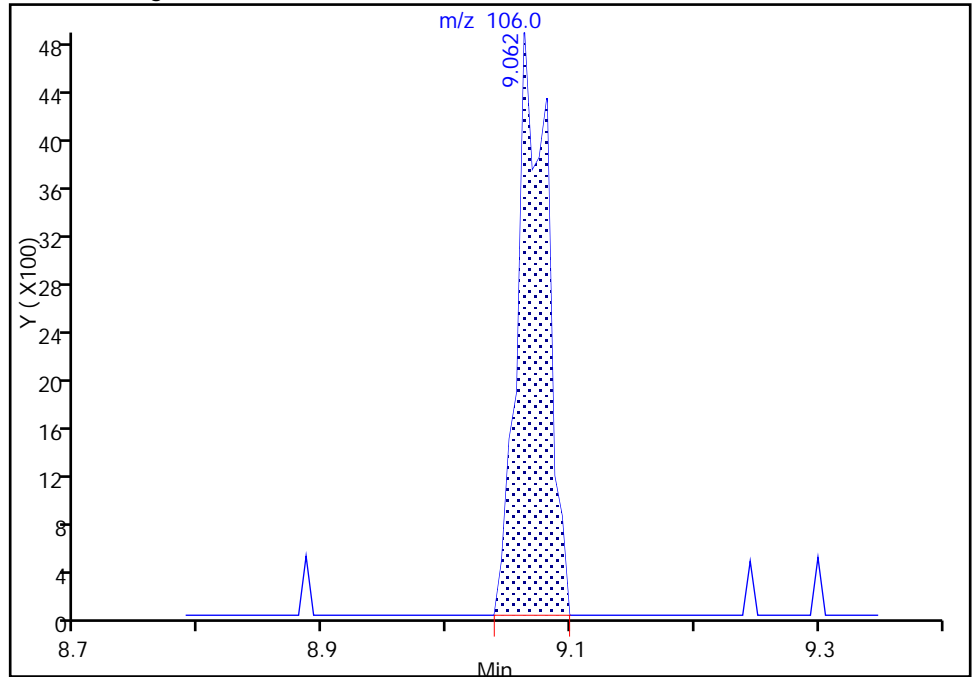
RT: 9.08
Area: 5026
Amount: 0.460361
Amount Units: ug/L

Processing Integration Results



RT: 9.06
Area: 8173
Amount: 0.410261
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:01:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

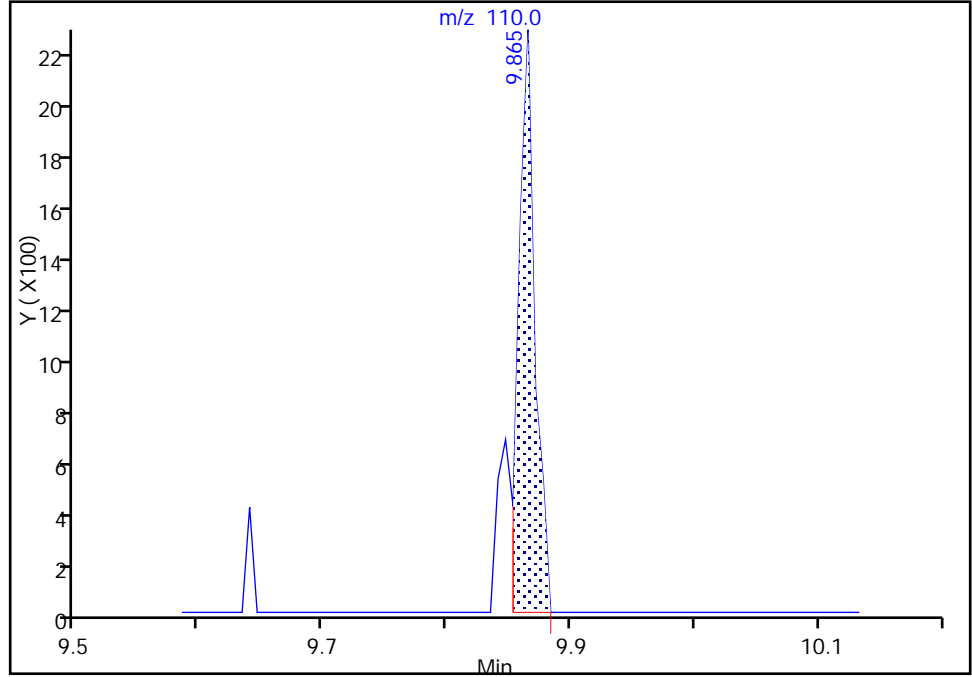
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

99 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

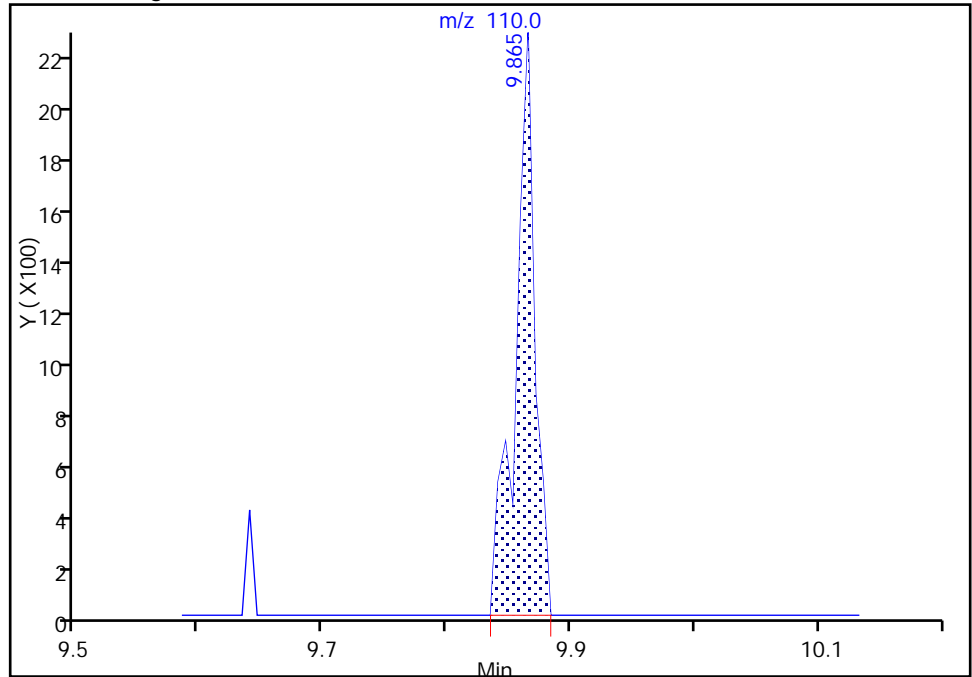
RT: 9.87
Area: 2029
Amount: 0.455573
Amount Units: ug/L

Processing Integration Results



RT: 9.87
Area: 2459
Amount: 0.539109
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:01:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

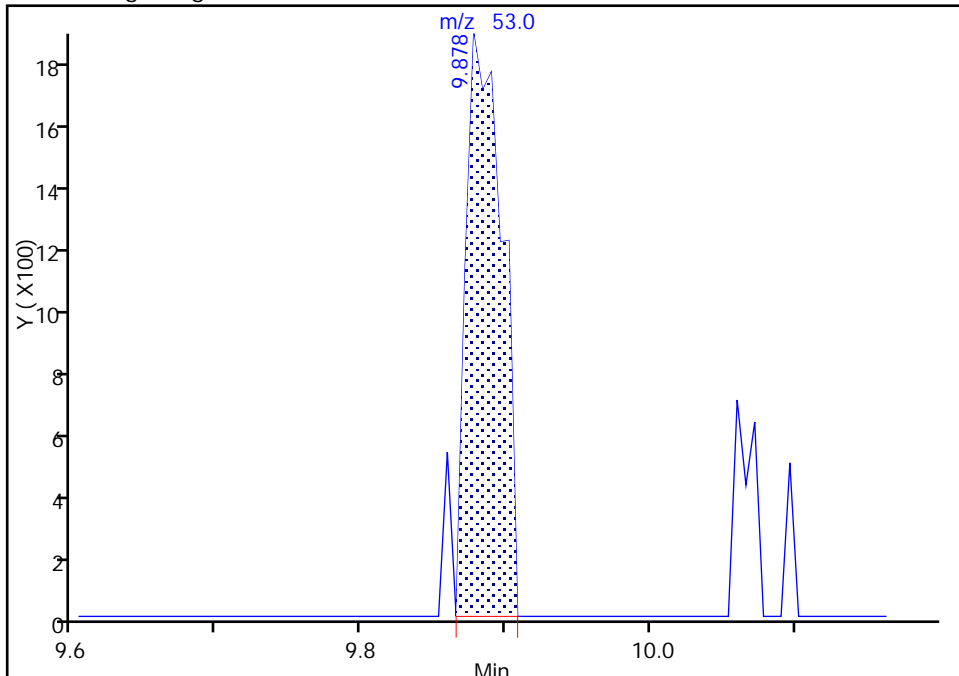
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

101 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

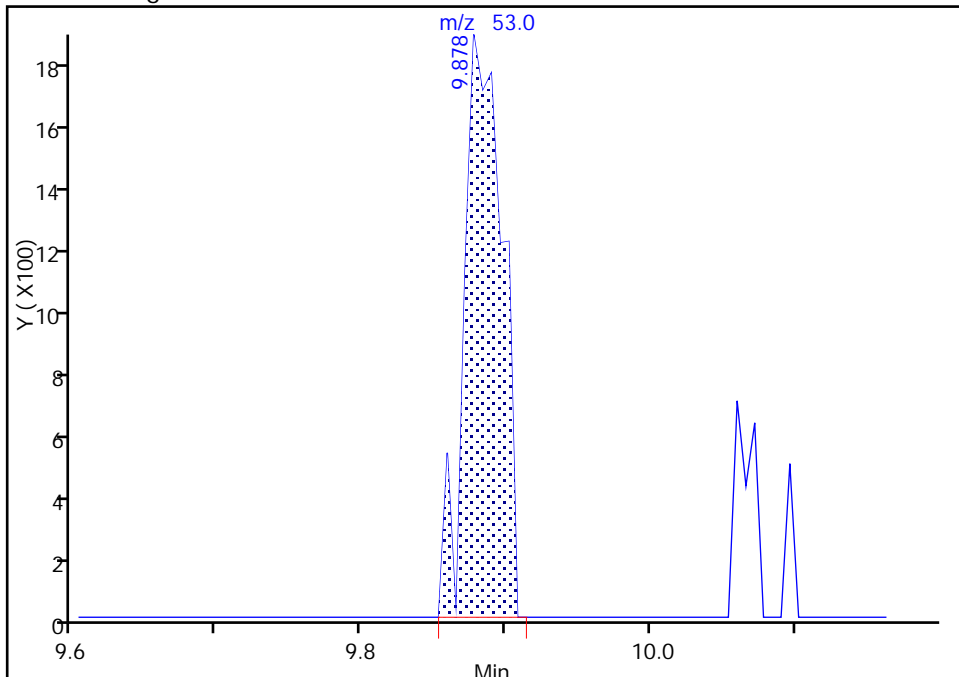
RT: 9.88
Area: 3238
Amount: 0.444407
Amount Units: ug/L

Processing Integration Results



RT: 9.88
Area: 3432
Amount: 0.467918
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:01:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

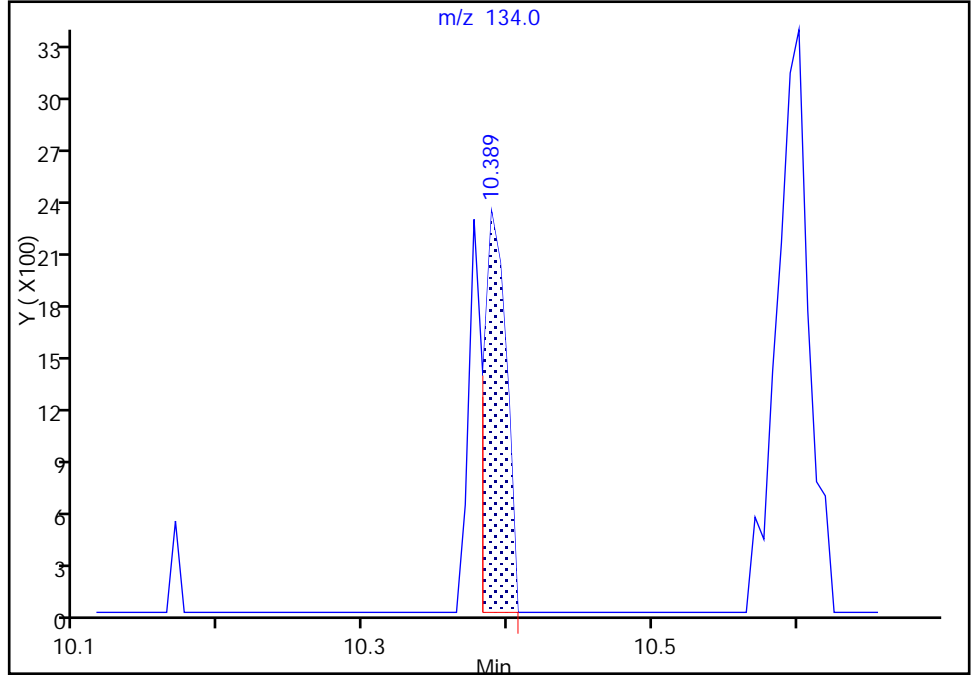
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

106 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

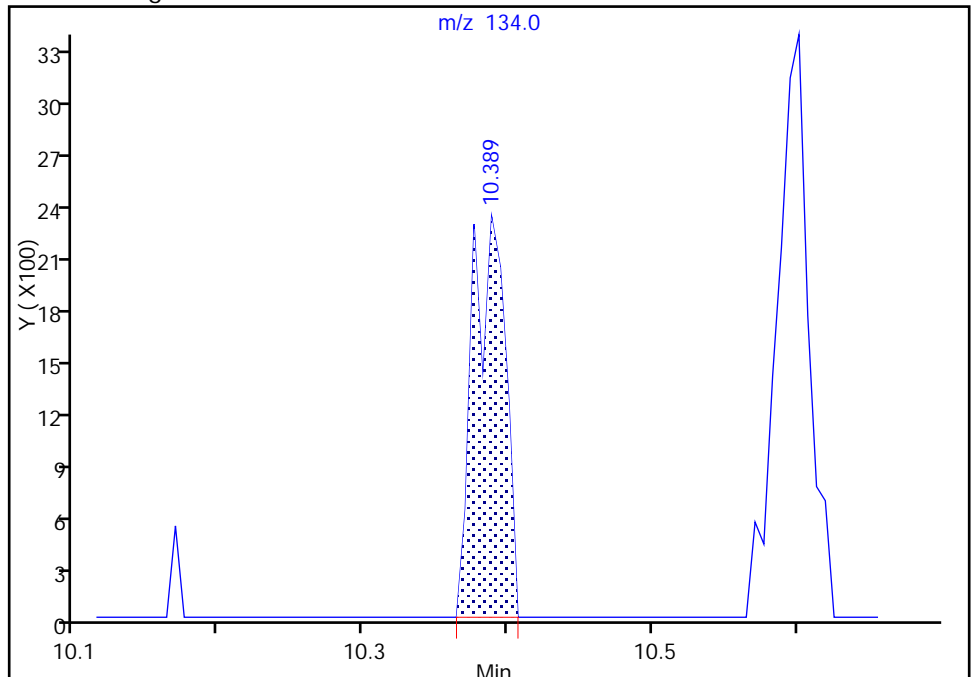
RT: 10.39
Area: 2506
Amount: 0.499880
Amount Units: ug/L

Processing Integration Results



RT: 10.39
Area: 3552
Amount: 0.362186
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:02:03
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

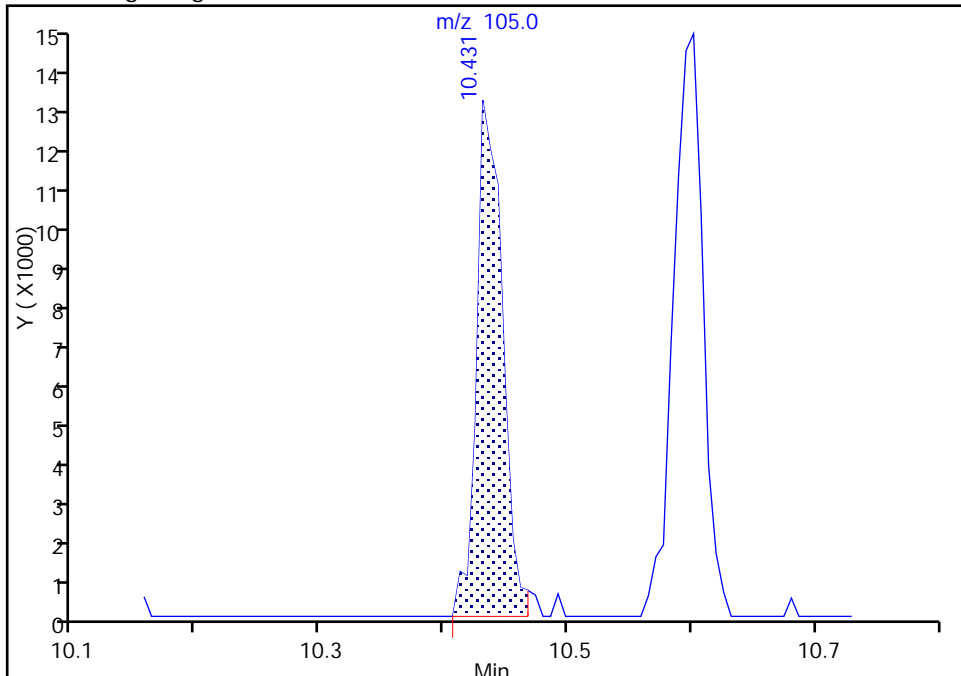
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6813.D
Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

108 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

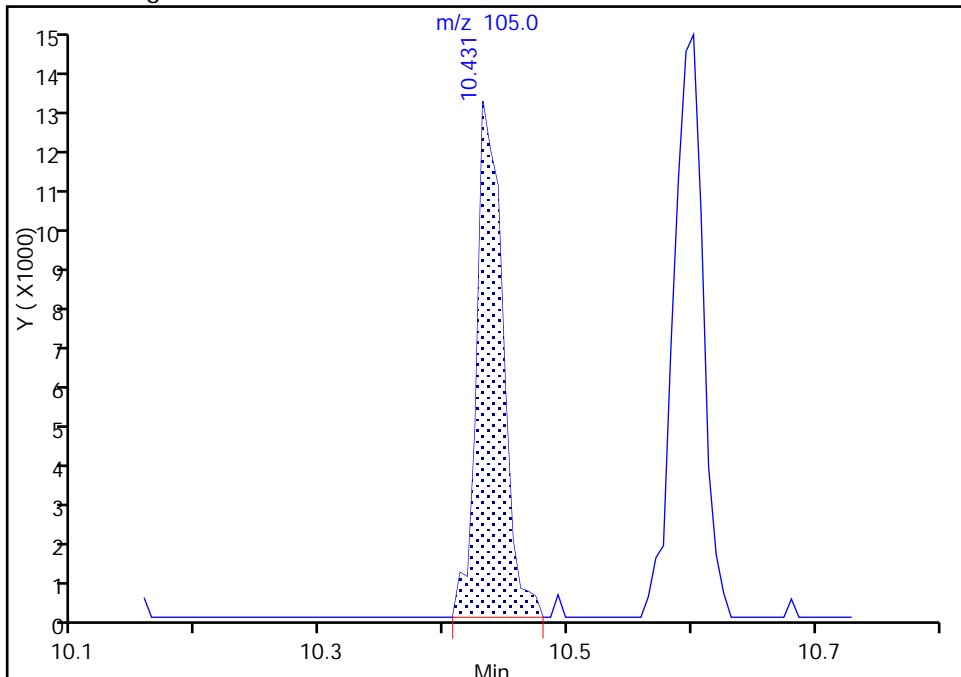
RT: 10.43
Area: 18958
Amount: 0.428461
Amount Units: ug/L

Processing Integration Results



RT: 10.43
Area: 19154
Amount: 0.432412
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:02:19
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

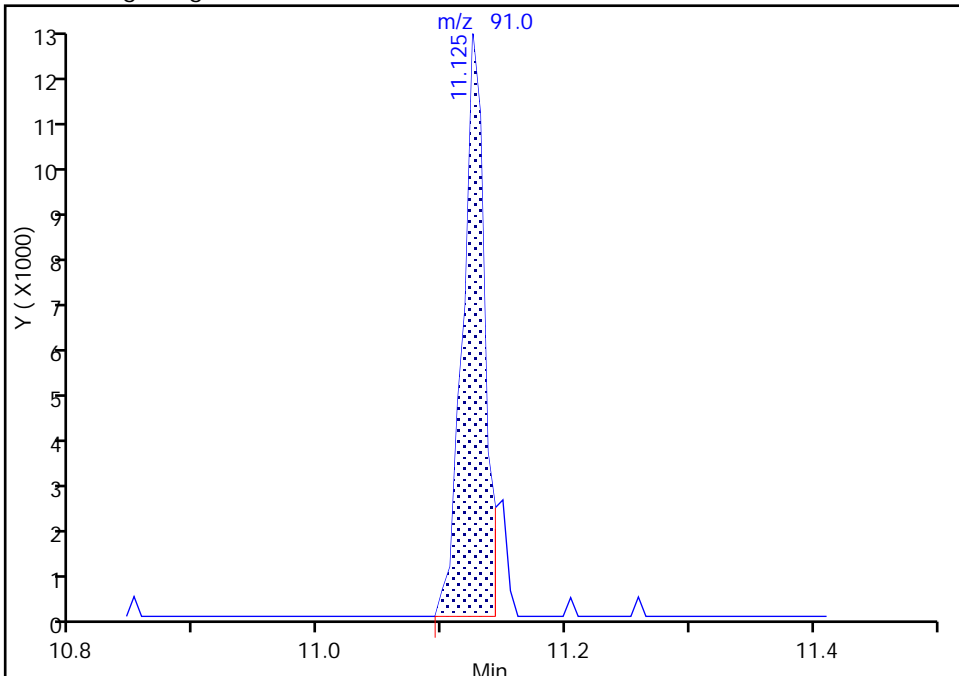
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

115 n-Butylbenzene, CAS: 104-51-8

Signal: 1

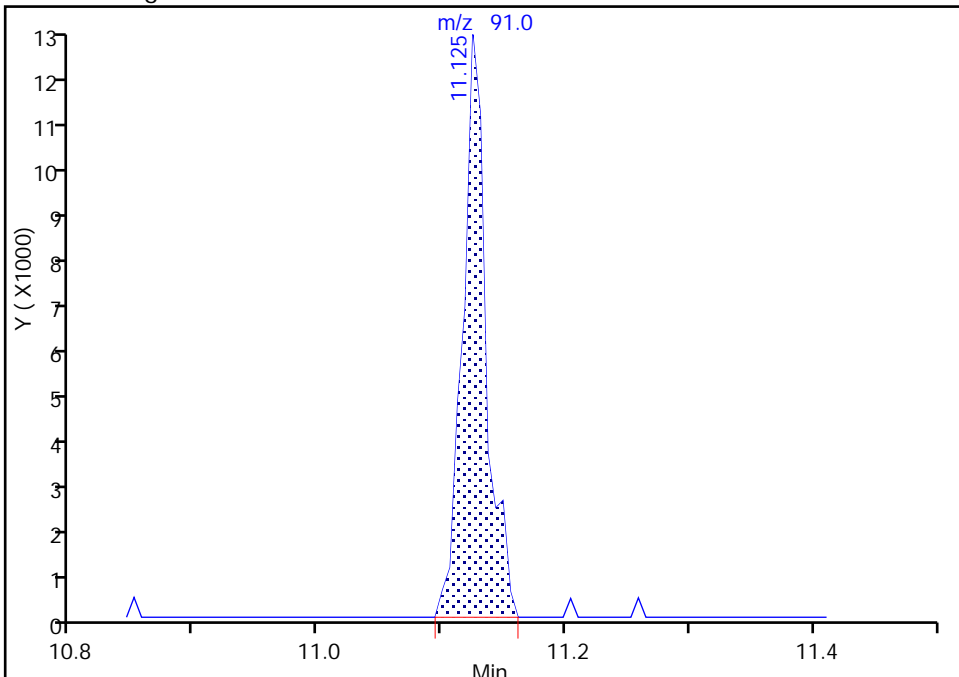
RT: 11.12
Area: 15540
Amount: 0.382964
Amount Units: ug/L

Processing Integration Results



RT: 11.12
Area: 16664
Amount: 0.407839
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:02:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

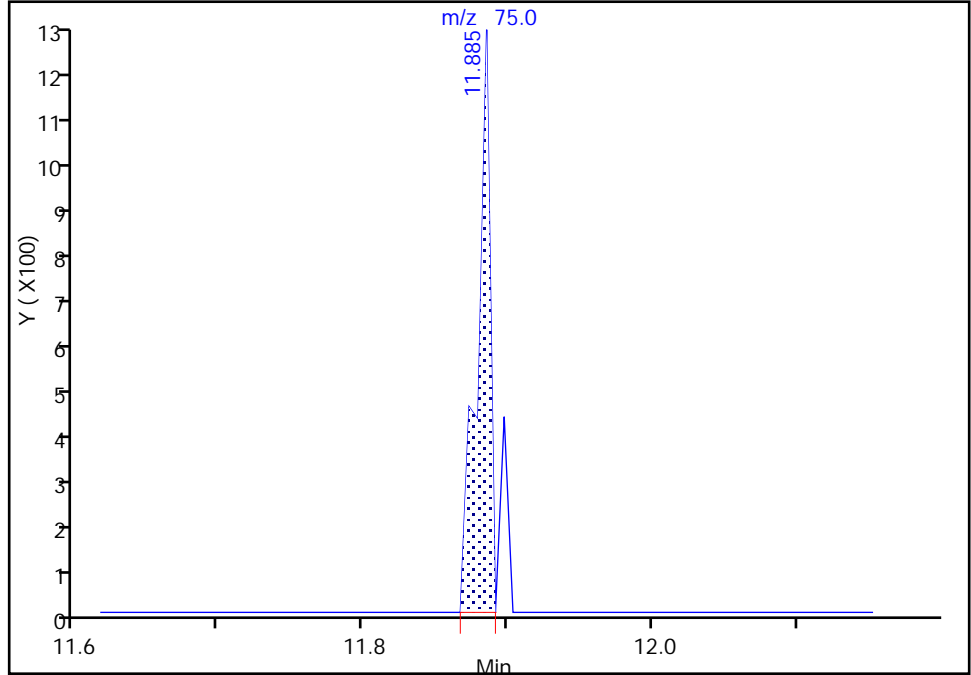
TestAmerica Buffalo

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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

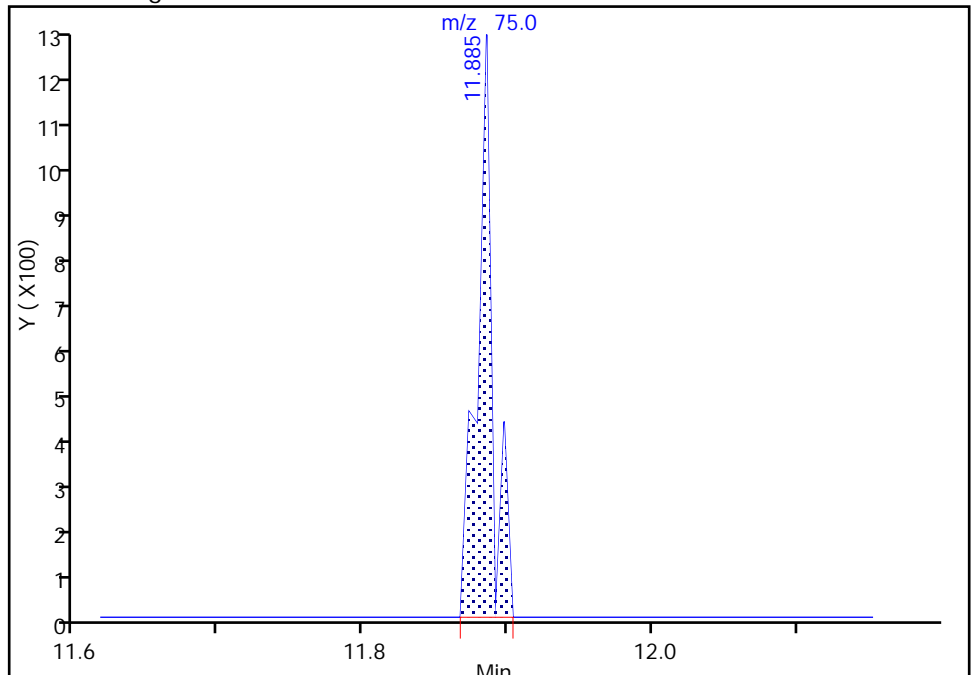
RT: 11.89
Area: 749
Amount: 0.641573
Amount Units: ug/L

Processing Integration Results



RT: 11.89
Area: 898
Amount: 0.392783
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:02:56
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

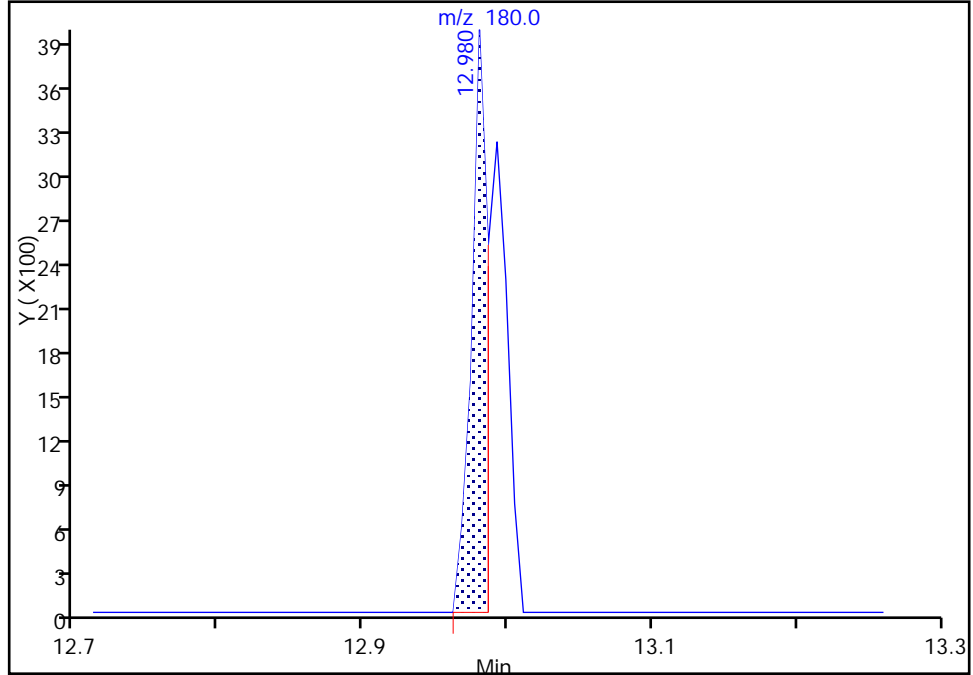
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Injection Date: 31-Jan-2018 15:32:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

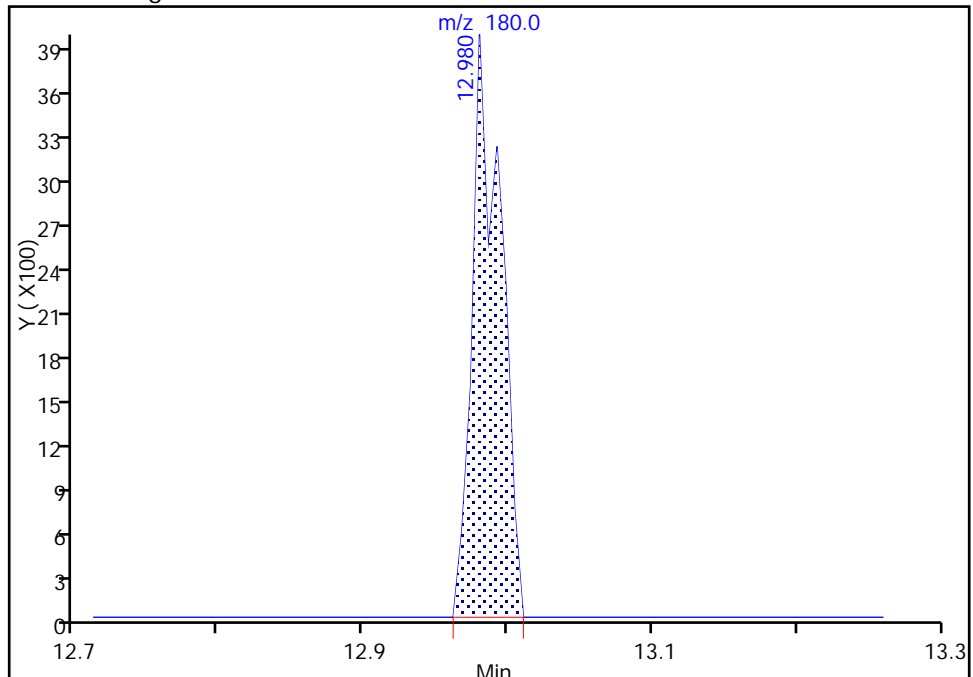
RT: 12.98
Area: 3134
Amount: 0.583906
Amount Units: ug/L

Processing Integration Results



RT: 12.98
Area: 5384
Amount: 0.409881
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:03:24
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-Jan-2018 15:59:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0068951-008
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:13 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibiliam

Date: 01-Feb-2018 08:52:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.400	5.406	-0.006	97	221746	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	91	789379	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	96	415989	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	93	240219	25.0	24.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	341063	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	962912	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	89	318235	25.0	25.9	
11 Dichlorodifluoromethane	85	1.324	1.330	-0.006	96	11526	1.00	1.00	M
13 Chloromethane	50	1.501	1.501	0.000	97	30414	1.00	1.09	M
14 Vinyl chloride	62	1.580	1.586	-0.006	97	19297	1.00	0.9845	
144 Butadiene	54	1.616	1.616	0.000	96	20857	1.00	0.9635	
15 Bromomethane	94	1.902	1.902	0.000	65	9687	1.00	1.02	M
16 Chloroethane	64	1.987	1.981	0.006	85	10025	1.00	0.9557	
18 Trichlorofluoromethane	101	2.188	2.188	0.000	73	18070	1.00	1.06	
17 Dichlorofluoromethane	67	2.188	2.194	-0.006	92	23847	1.00	1.07	
19 Ethyl ether	59	2.468	2.474	-0.006	93	16538	1.00	1.01	
20 Acrolein	56	2.626	2.626	0.000	93	20196	5.00	5.09	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	87	9998	1.00	1.00	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.687	2.699	-0.012	52	7841	1.00	0.8747	
23 Acetone	43	2.784	2.784	0.000	96	38154	5.00	5.05	
24 Iodomethane	142	2.827	2.827	0.000	99	17854	1.00	1.00	
25 Carbon disulfide	76	2.875	2.869	0.006	98	30241	1.00	0.9599	M
27 3-Chloro-1-propene	41	3.034	3.040	-0.006	85	32624	1.00	0.9578	
28 Methyl acetate	43	3.082	3.082	0.000	99	41490	2.00	2.01	
30 Methylene Chloride	84	3.167	3.167	0.000	89	18725	1.00	1.05	
31 2-Methyl-2-propanol	59	3.338	3.338	0.000	89	20271	10.0	9.20	M
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	94	36605	1.00	0.9639	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	77	11247	1.00	0.9759	
34 Acrylonitrile	53	3.429	3.429	0.000	97	92073	10.0	9.48	
35 Hexane	57	3.624	3.624	0.000	94	20214	1.00	0.8104	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.806	3.812	-0.006	96	22473	1.00	0.8822	
39 Vinyl acetate	43	3.867	3.867	0.000	96	95639	2.00	1.88	
42 2,2-Dichloropropane	77	4.336	4.329	0.007	80	14549	1.00	1.00	
43 cis-1,2-Dichloroethene	96	4.348	4.354	-0.006	87	11468	1.00	0.8701	
44 2-Butanone (MEK)	43	4.390	4.384	0.006	96	60003	5.00	4.74	M
47 Chlorobromomethane	128	4.579	4.579	0.000	82	6390	1.00	0.9678	
49 Tetrahydrofuran	42	4.615	4.615	0.000	88	18576	2.00	2.04	
50 Chloroform	83	4.652	4.664	-0.012	62	19750	1.00	0.9430	M
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	89	16878	1.00	1.00	
52 Cyclohexane	56	4.822	4.816	0.006	35	26096	1.00	0.8824	
53 Carbon tetrachloride	117	4.938	4.938	0.000	74	13915	1.00	0.9835	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	80	17114	1.00	1.08	
56 Isobutyl alcohol	43	5.132	5.132	0.000	76	29714	25.0	23.4	
55 Benzene	78	5.132	5.139	-0.007	87	44795	1.00	0.9495	M
57 1,2-Dichloroethane	62	5.187	5.187	0.000	1	21628	1.00	0.9540	Ma
59 n-Heptane	43	5.351	5.345	0.006	90	24669	1.00	0.8792	
60 Trichloroethene	95	5.741	5.747	-0.006	86	13072	1.00	1.05	
62 Methylcyclohexane	83	5.887	5.887	0.000	93	15054	1.00	0.7933	M
63 1,2-Dichloropropane	63	5.972	5.972	0.000	82	13956	1.00	0.9560	
64 Dibromomethane	93	6.112	6.100	0.012	93	7987	1.00	1.06	M
66 1,4-Dioxane	88	6.136	6.118	0.018	1	2505	20.0	19.0	Ma
67 Dichlorobromomethane	83	6.258	6.258	0.000	93	15364	1.00	1.00	
69 2-Chloroethyl vinyl ether	63	6.544	6.538	0.006	83	9343	1.00	0.8617	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	78	15689	1.00	0.8803	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	39298	5.00	4.63	
73 Toluene	92	6.982	6.982	0.000	96	28823	1.00	0.9766	
75 trans-1,3-Dichloropropene	75	7.243	7.237	0.006	81	15422	1.00	0.9759	
77 Ethyl methacrylate	69	7.304	7.304	0.000	93	16242	1.00	1.02	M
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	89	8996	1.00	1.05	
79 Tetrachloroethene	166	7.523	7.523	0.000	92	12525	1.00	1.00	
80 1,3-Dichloropropane	76	7.584	7.584	0.000	89	16072	1.00	0.9204	
82 2-Hexanone	43	7.663	7.657	0.006	96	95945	5.00	5.21	M
83 Chlorodibromomethane	129	7.821	7.828	-0.007	86	9851	1.00	0.8792	
84 Ethylene Dibromide	107	7.925	7.931	-0.006	96	10127	1.00	0.9365	M
85 Chlorobenzene	112	8.418	8.418	0.000	94	32332	1.00	0.9892	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	45	8973	1.00	0.8356	
88 Ethylbenzene	91	8.521	8.521	0.000	96	48986	1.00	0.9300	
90 m-Xylene & p-Xylene	106	8.649	8.643	0.006	0	20980	1.00	0.9816	
91 o-Xylene	106	9.062	9.069	-0.007	94	20063	1.00	0.9725	
92 Styrene	104	9.093	9.093	0.000	91	32561	1.00	0.9291	
93 Bromoform	173	9.318	9.324	-0.006	92	7543	1.00	1.05	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	47410	1.00	0.8883	
97 Bromobenzene	156	9.799	9.793	0.007	93	14071	1.00	1.02	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	89	12483	1.00	0.8716	
99 1,2,3-Trichloropropane	110	9.865	9.859	0.006	89	4812	1.00	1.04	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	63	7026	1.00	0.9424	
100 N-Propylbenzene	91	9.890	9.884	0.006	98	58239	1.00	0.9561	
102 2-Chlorotoluene	126	9.987	9.981	0.006	94	12715	1.00	0.9664	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	94	41489	1.00	0.9442	
105 4-Chlorotoluene	91	10.097	10.091	0.006	96	40163	1.00	0.9485	
106 tert-Butylbenzene	134	10.389	10.383	0.006	91	8926	1.00	0.8954	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	42017	1.00	0.9332	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	95	52299	1.00	0.9328	
110 1,3-Dichlorobenzene	146	10.717	10.723	-0.006	93	25665	1.00	0.9672	M
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	45440	1.00	0.9086	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	88	26585	1.00	0.9864	
115 n-Butylbenzene	91	11.125	11.125	0.000	95	36795	1.00	0.8859	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.006	89	22206	1.00	0.8870	
117 1,2-Dibromo-3-Chloropropan	75	11.885	11.885	0.000	68	1794	1.00	0.7719	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	93	12968	1.00	0.8300	M
120 Hexachlorobutadiene	225	12.694	12.700	-0.006	93	7364	1.00	0.9776	
121 Naphthalene	128	12.786	12.786	0.000	96	32362	1.00	0.7875	M
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	94	11100	1.00	0.8313	
S 126 Xylenes, Total	1				0			1.95	
S 123 1,3-Dichloropropene, Total	1				0			1.86	
S 124 1,2-Dichloroethene, Total	1				0			1.85	
S 125 Total BTEX	1				0			4.81	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00119

Amount Added: 1.00

Units: uL

GAS CORP mix_00262

Amount Added: 1.00

Units: uL

N_8260_Surr_00314

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00103

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D

Injection Date: 31-Jan-2018 15:59:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

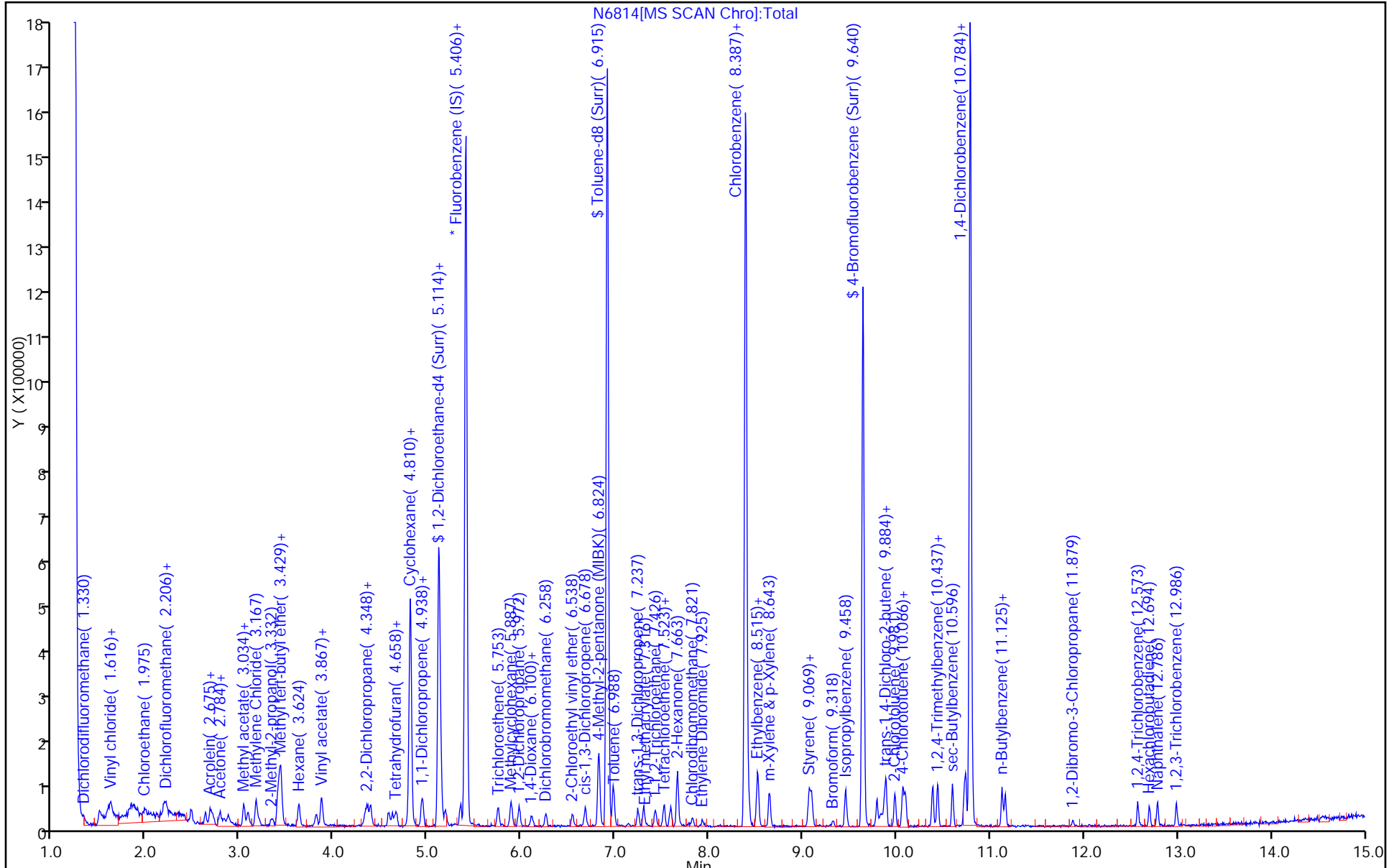
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

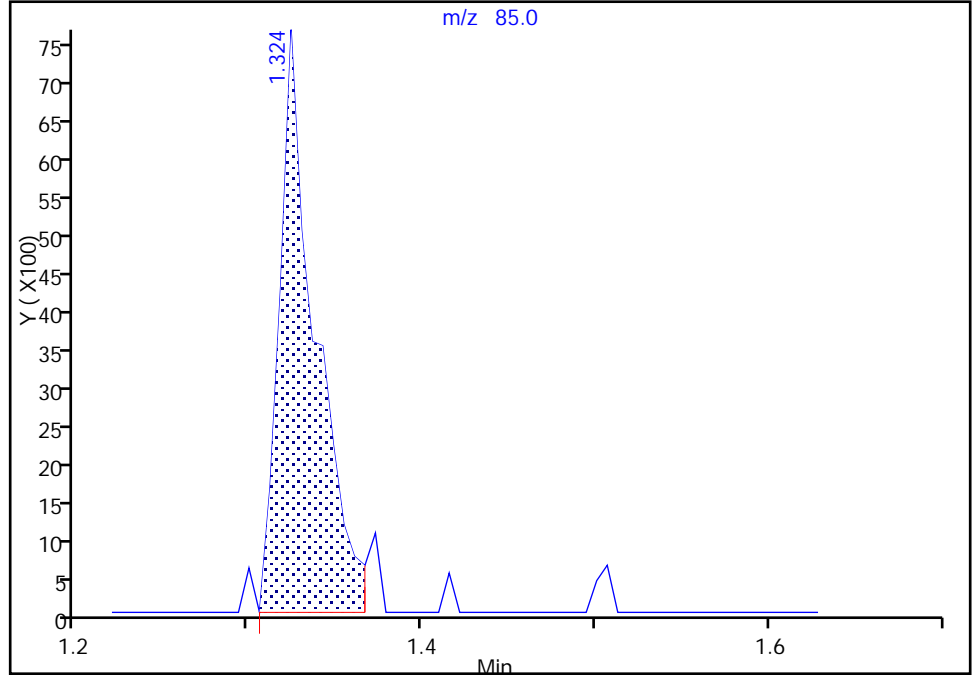
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

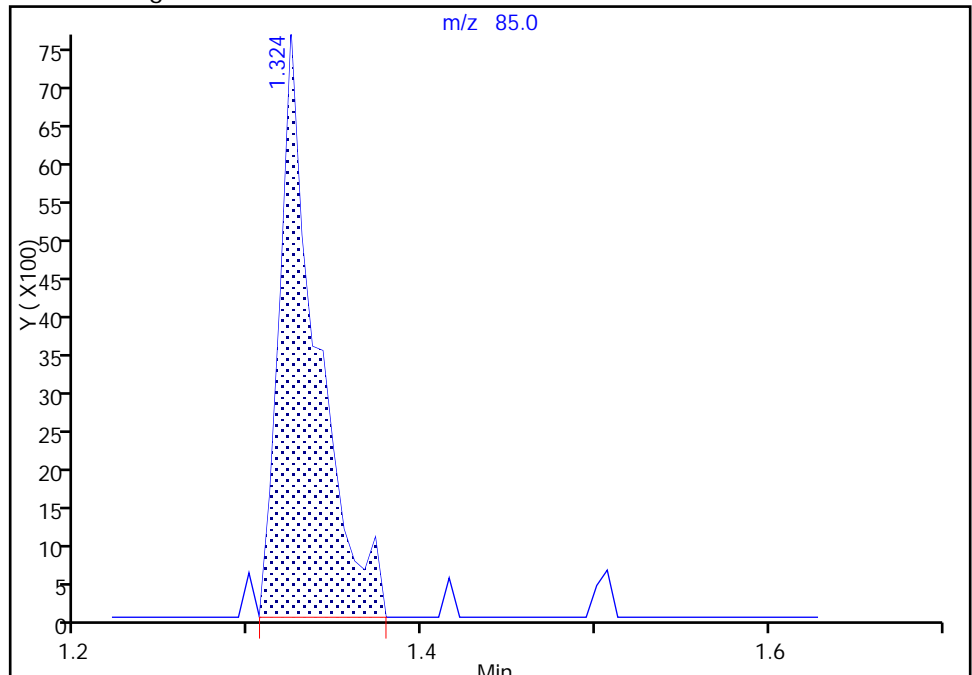
RT: 1.32
Area: 11143
Amount: 0.995408
Amount Units: ug/L

Processing Integration Results



RT: 1.32
Area: 11526
Amount: 0.998218
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:03:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

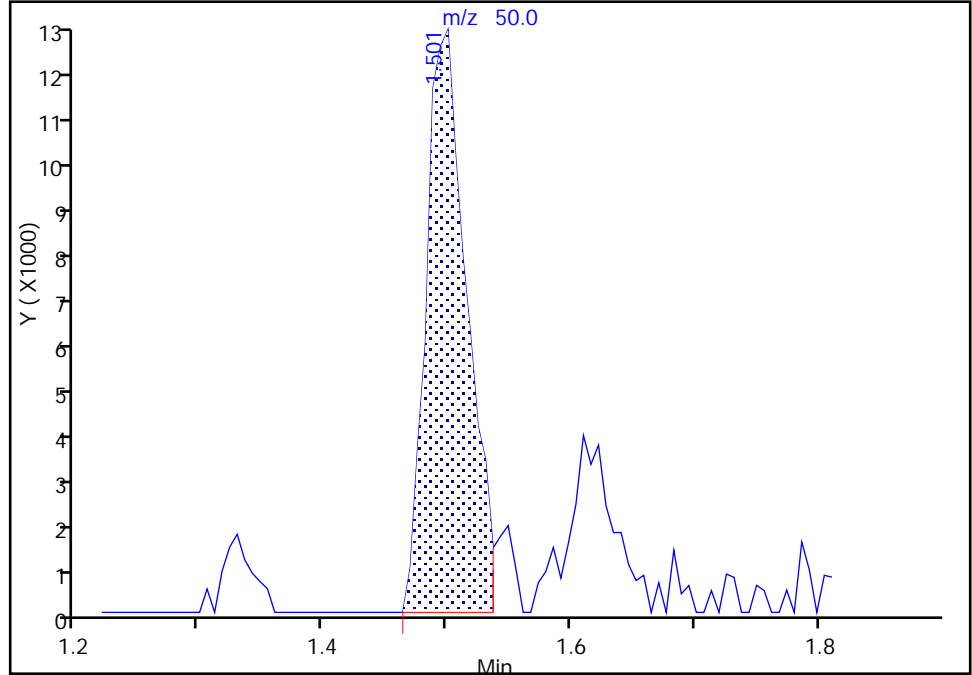
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Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

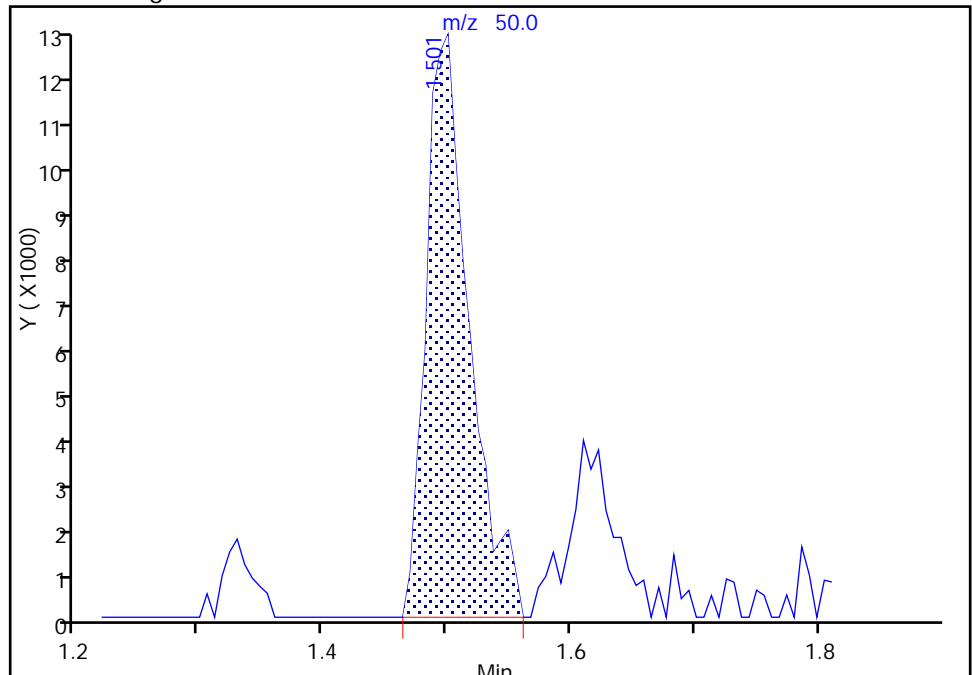
RT: 1.50
Area: 28776
Amount: 1.038684
Amount Units: ug/L

Processing Integration Results



RT: 1.50
Area: 30414
Amount: 1.085529
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:04:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

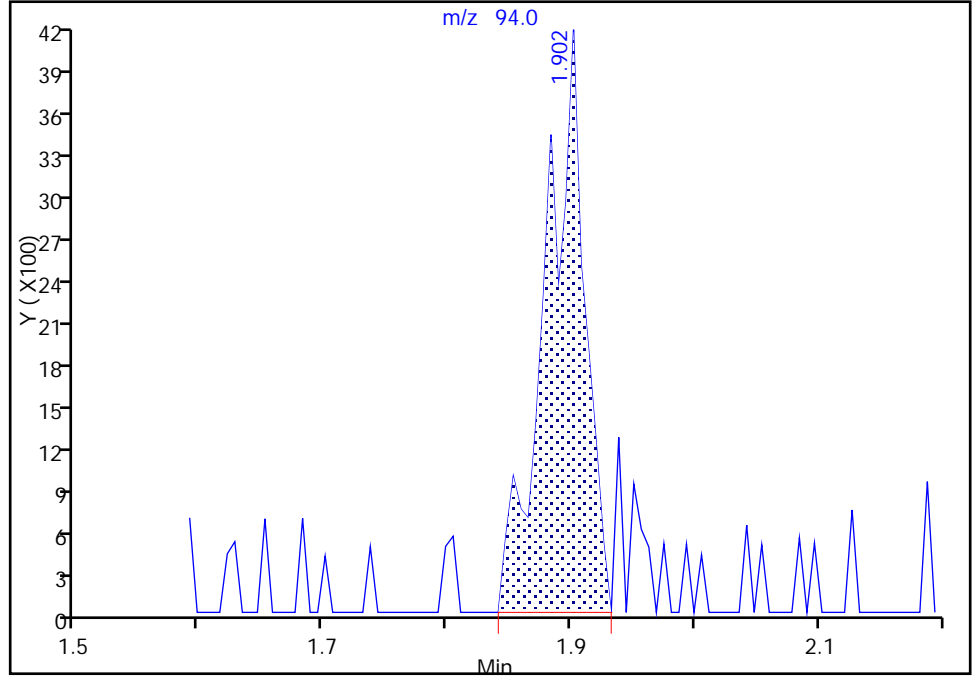
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Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

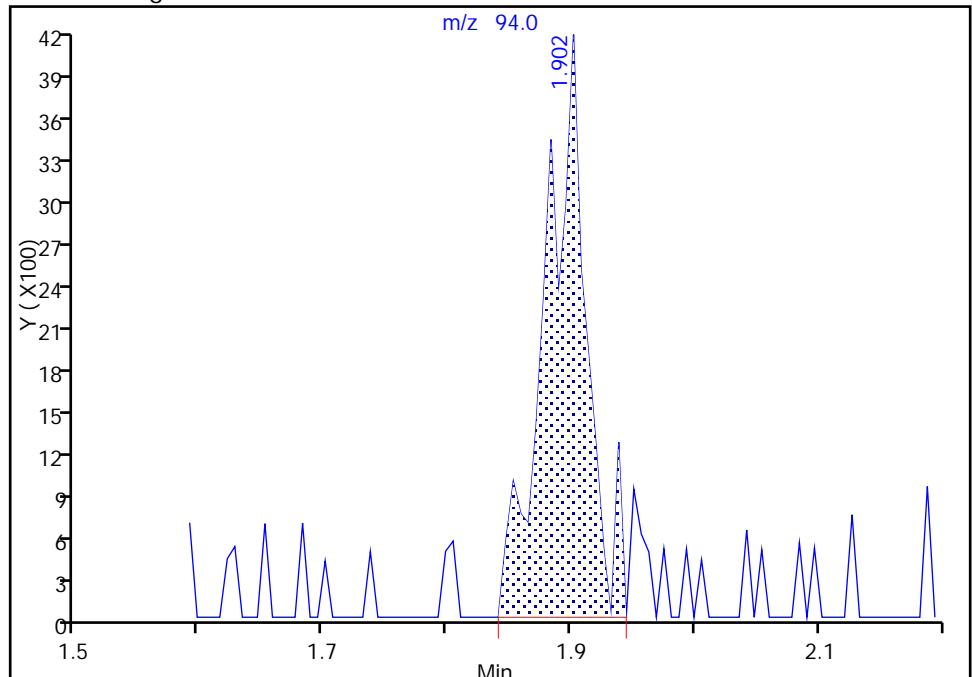
RT: 1.90
Area: 9233
Amount: 0.982521
Amount Units: ug/L

Processing Integration Results



RT: 1.90
Area: 9687
Amount: 1.024645
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:04:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

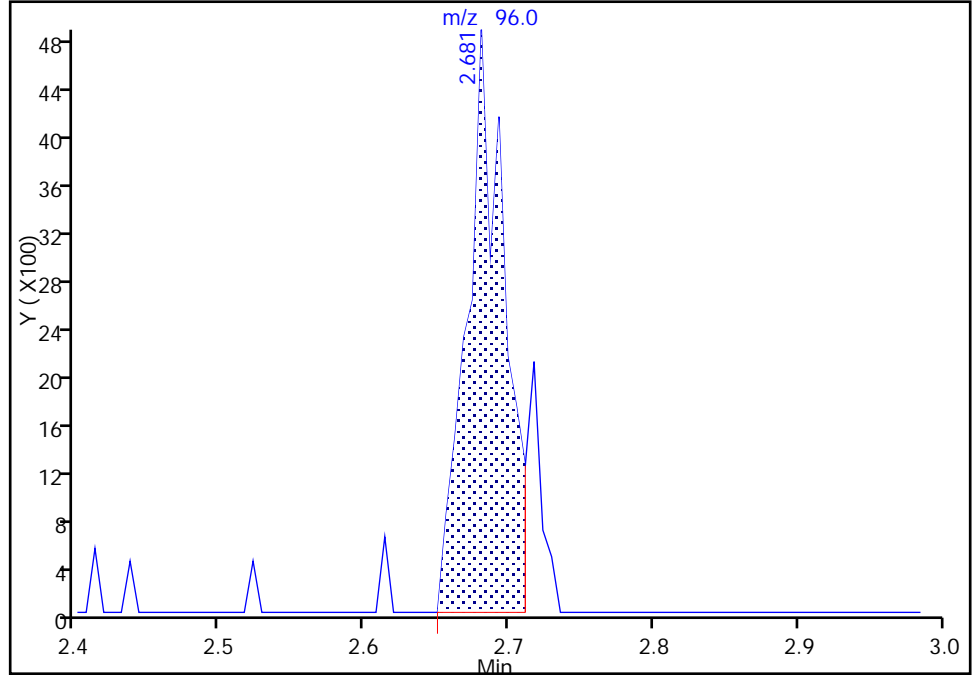
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

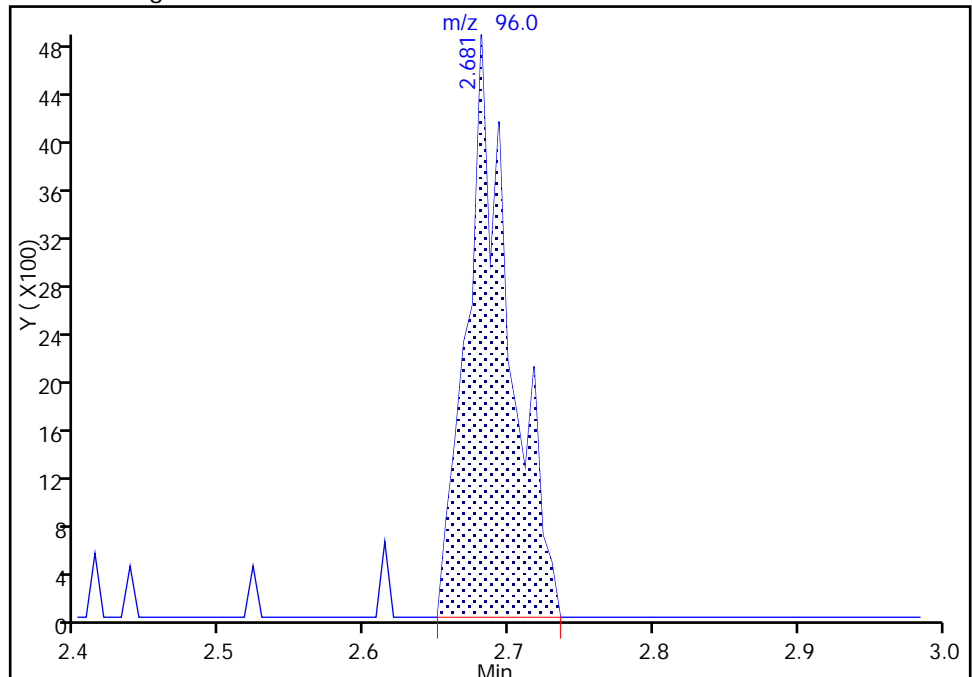
RT: 2.68
Area: 8815
Amount: 0.915957
Amount Units: ug/L

Processing Integration Results



RT: 2.68
Area: 9998
Amount: 0.995134
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:05:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

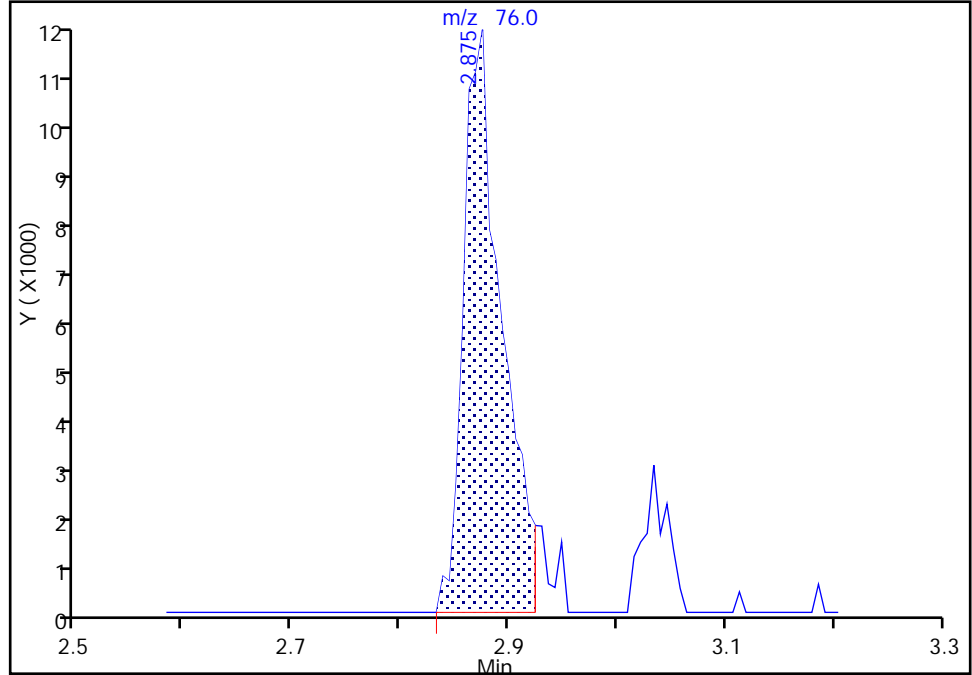
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

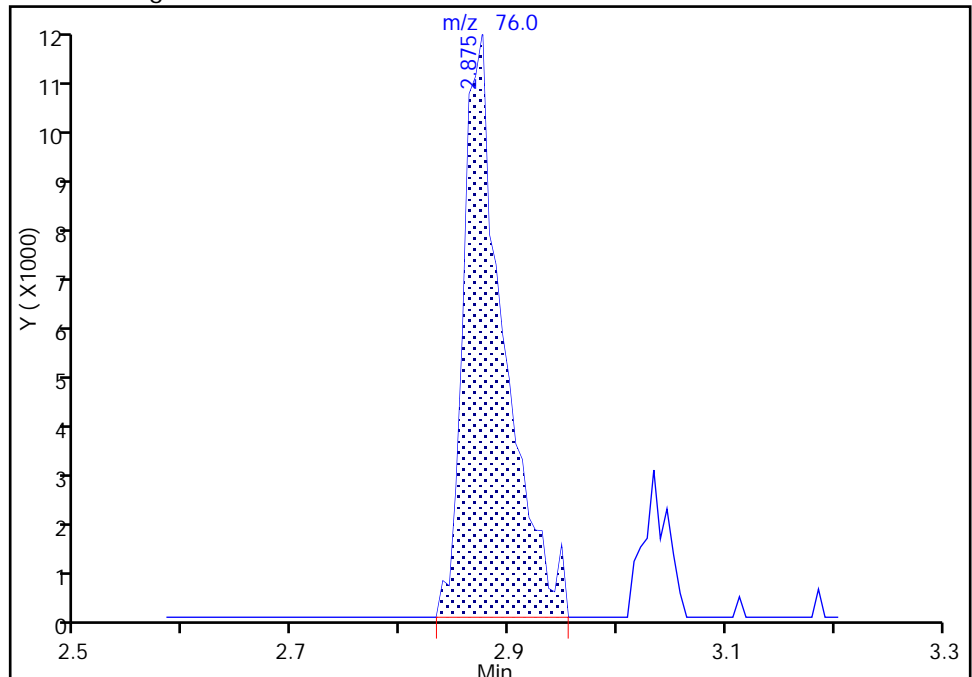
RT: 2.88
Area: 28698
Amount: 0.917974
Amount Units: ug/L

Processing Integration Results



RT: 2.88
Area: 30241
Amount: 0.959920
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:05:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

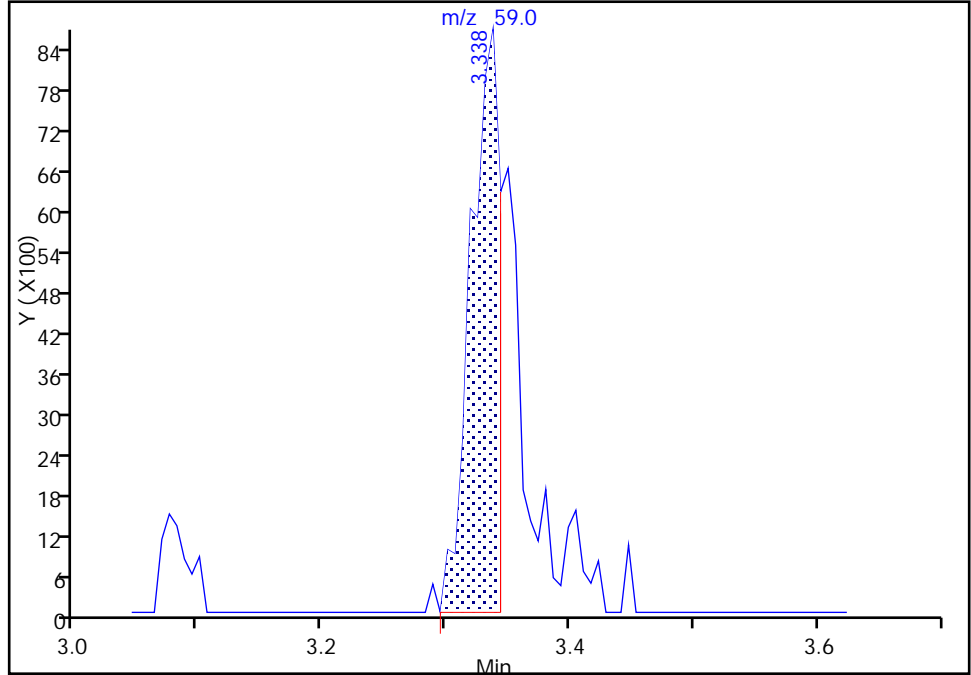
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

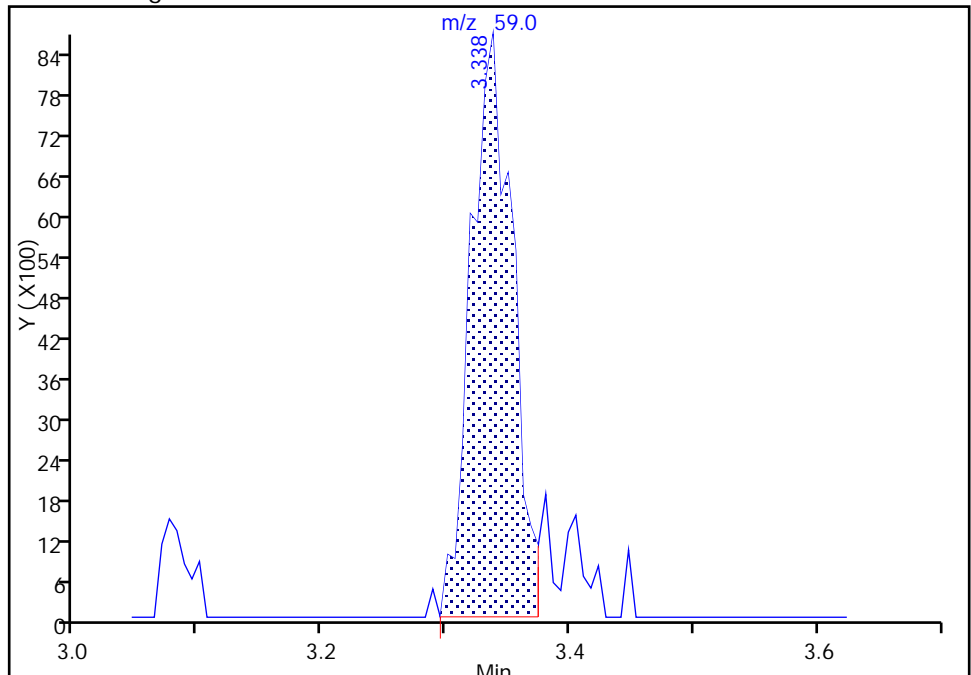
RT: 3.34
Area: 14330
Amount: 6.730612
Amount Units: ug/L

Processing Integration Results



RT: 3.34
Area: 20271
Amount: 9.200120
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:06:01
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

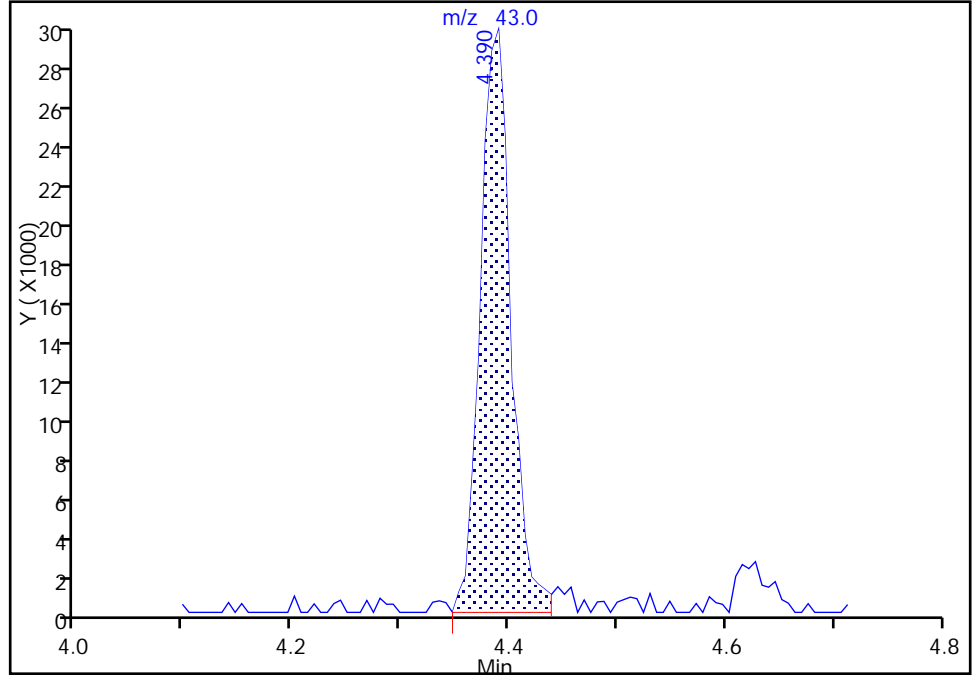
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

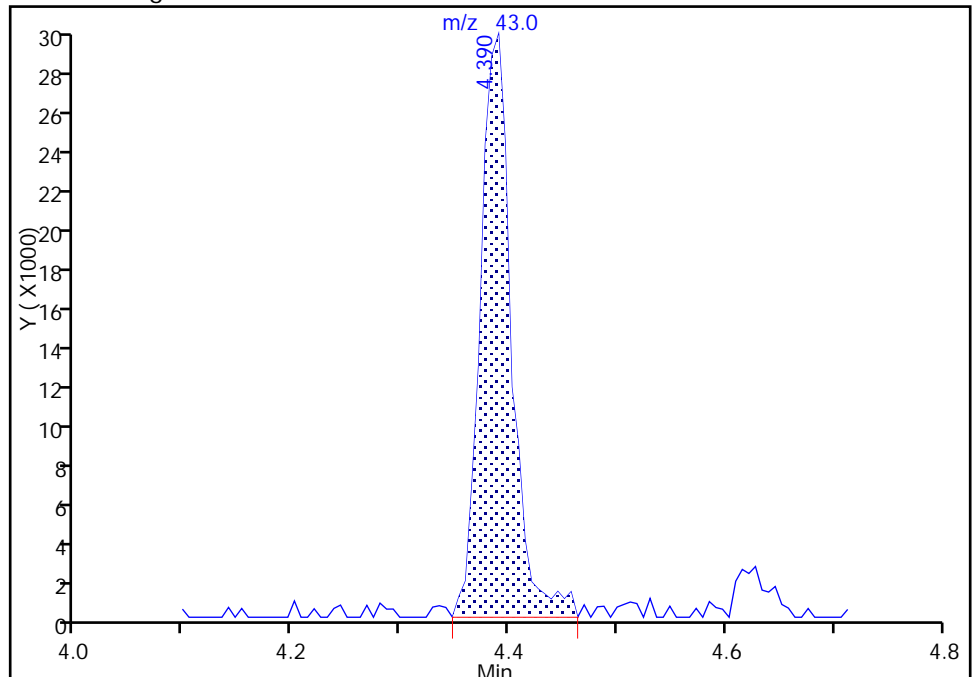
RT: 4.39
Area: 58707
Amount: 4.656289
Amount Units: ug/L

Processing Integration Results



RT: 4.39
Area: 60003
Amount: 4.738613
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:06:26
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

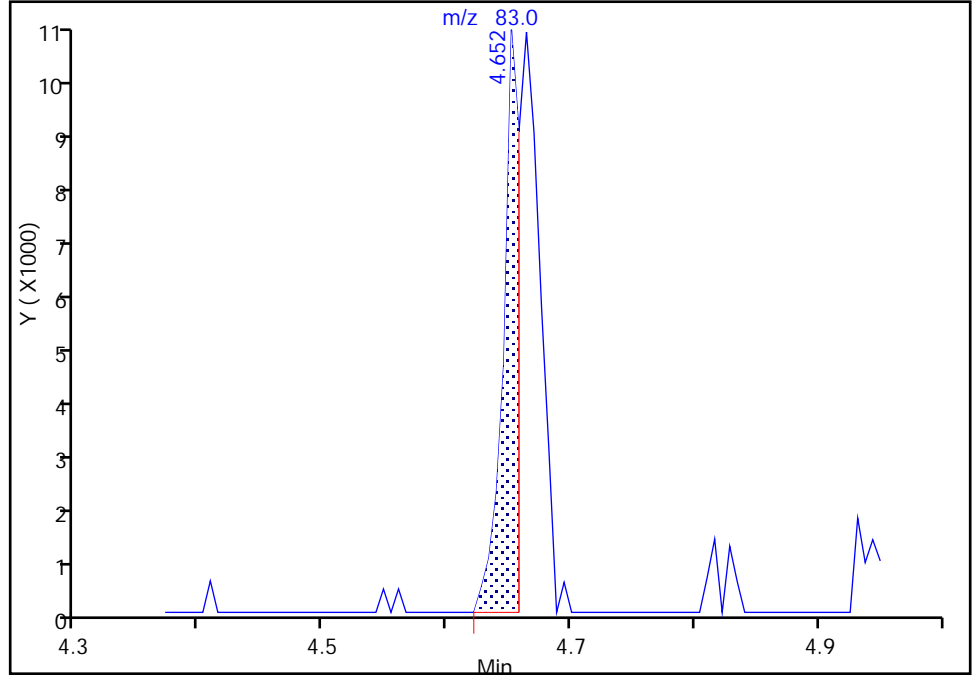
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

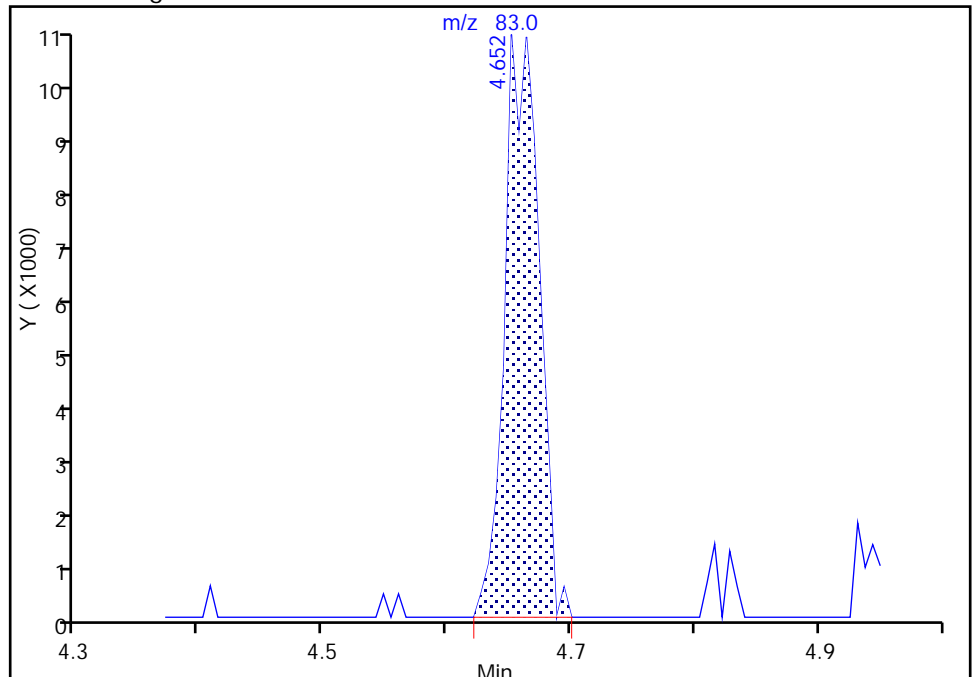
RT: 4.65
Area: 9744
Amount: 0.494775
Amount Units: ug/L

Processing Integration Results



RT: 4.65
Area: 19750
Amount: 0.942966
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:06:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

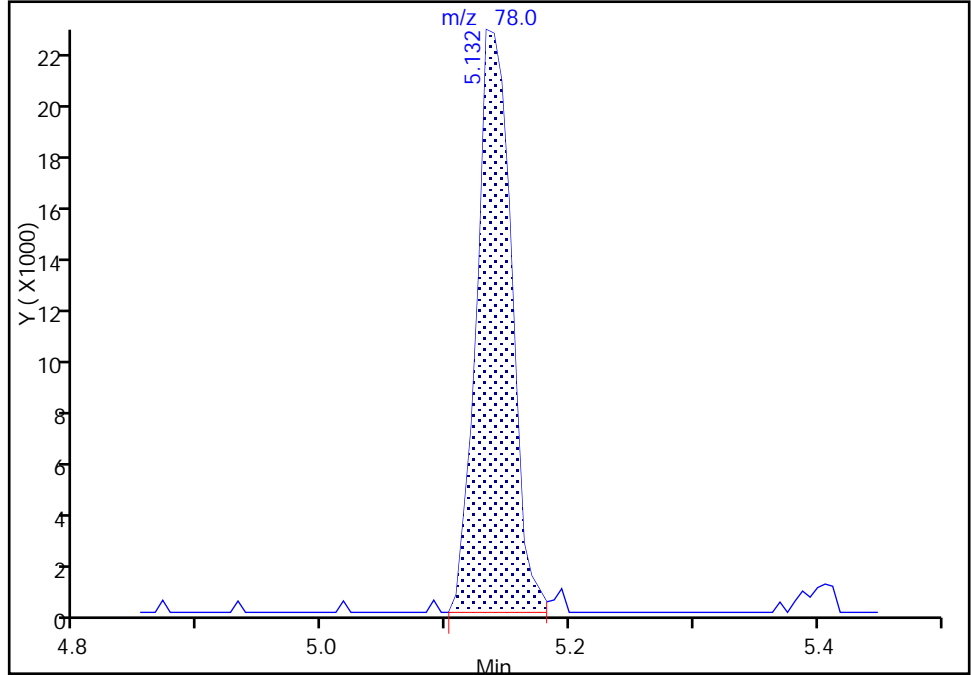
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

55 Benzene, CAS: 71-43-2

Signal: 1

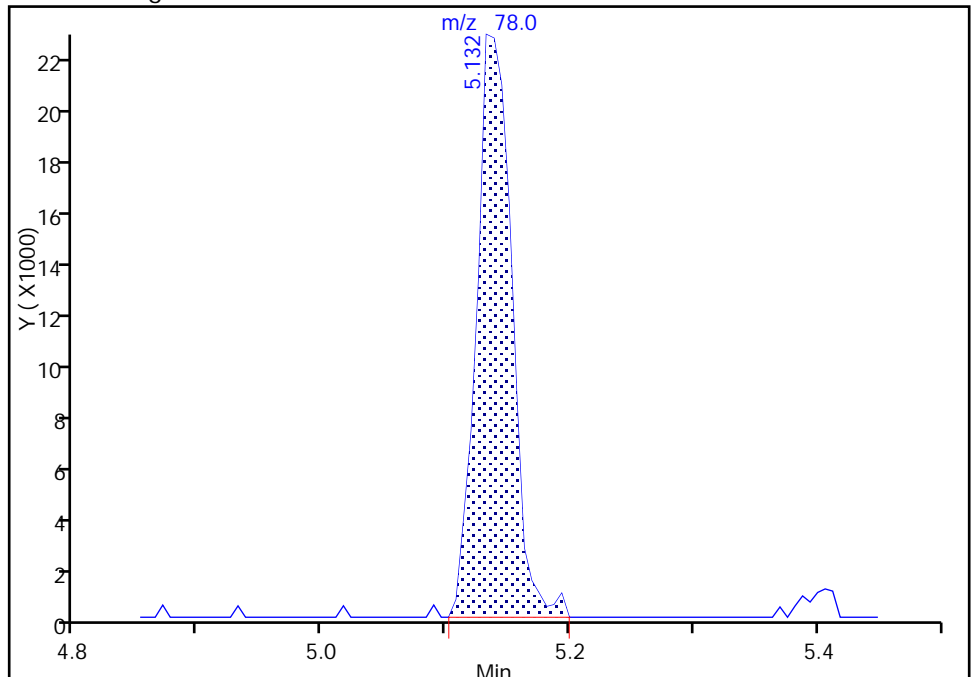
RT: 5.13
Area: 44281
Amount: 0.939894
Amount Units: ug/L

Processing Integration Results



RT: 5.13
Area: 44795
Amount: 0.949509
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:07:01
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

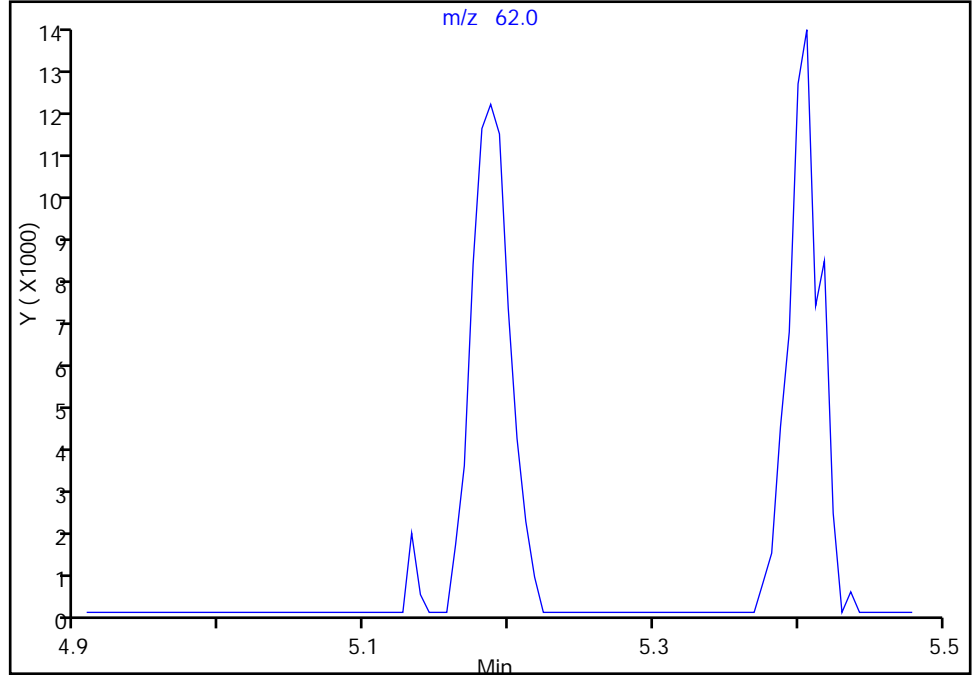
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

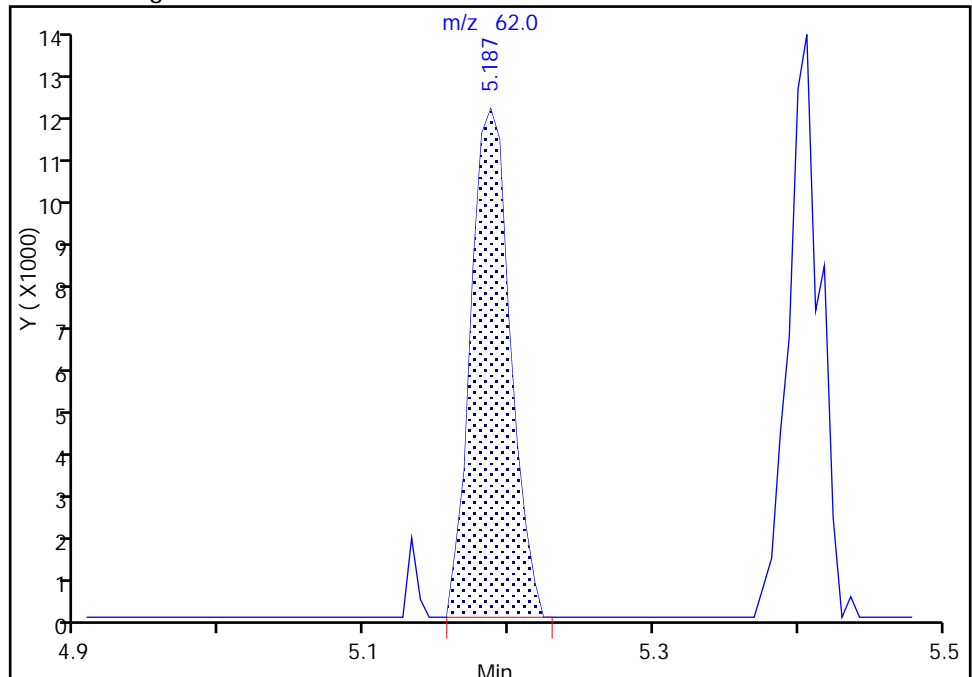
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 21628
Amount: 0.954021
Amount Units: ug/L



Reviewer: scibiliam, 01-Feb-2018 10:07:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

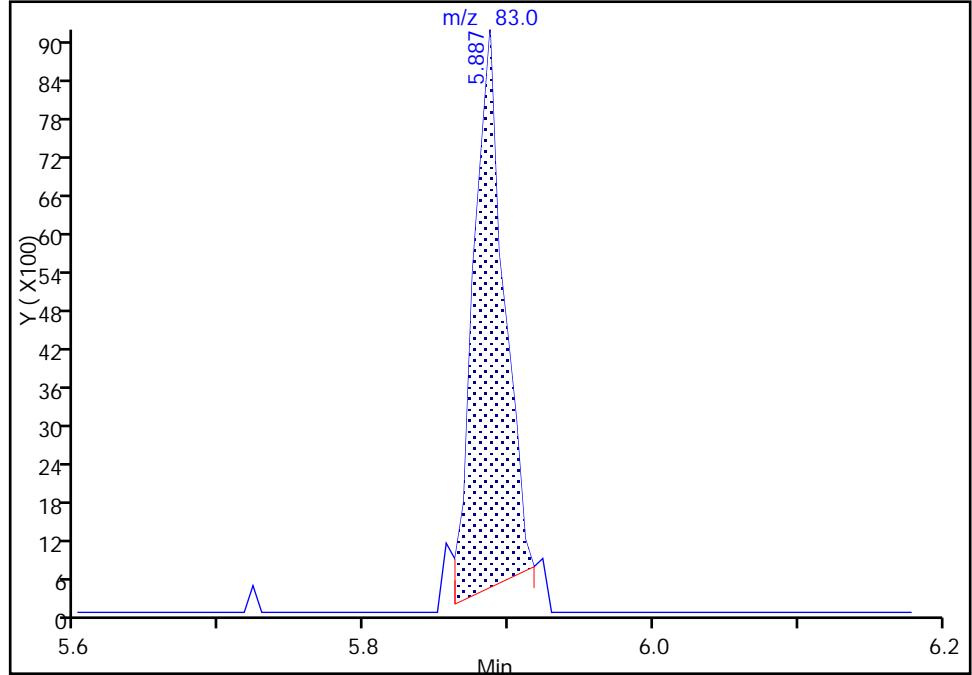
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

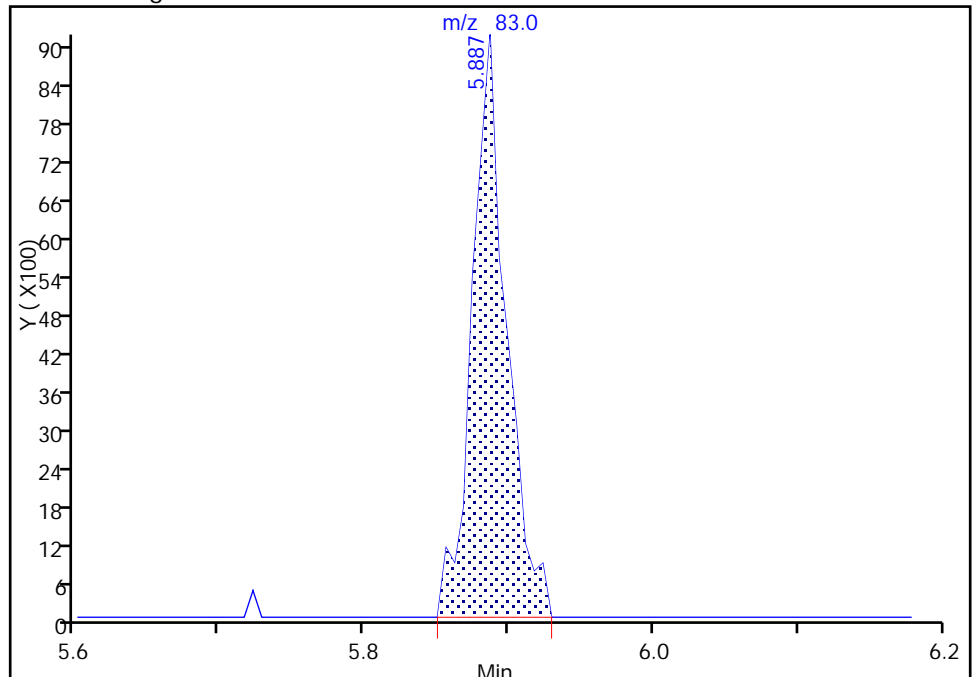
RT: 5.89
Area: 12799
Amount: 0.950127
Amount Units: ug/L

Processing Integration Results



RT: 5.89
Area: 15054
Amount: 0.793257
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:07:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

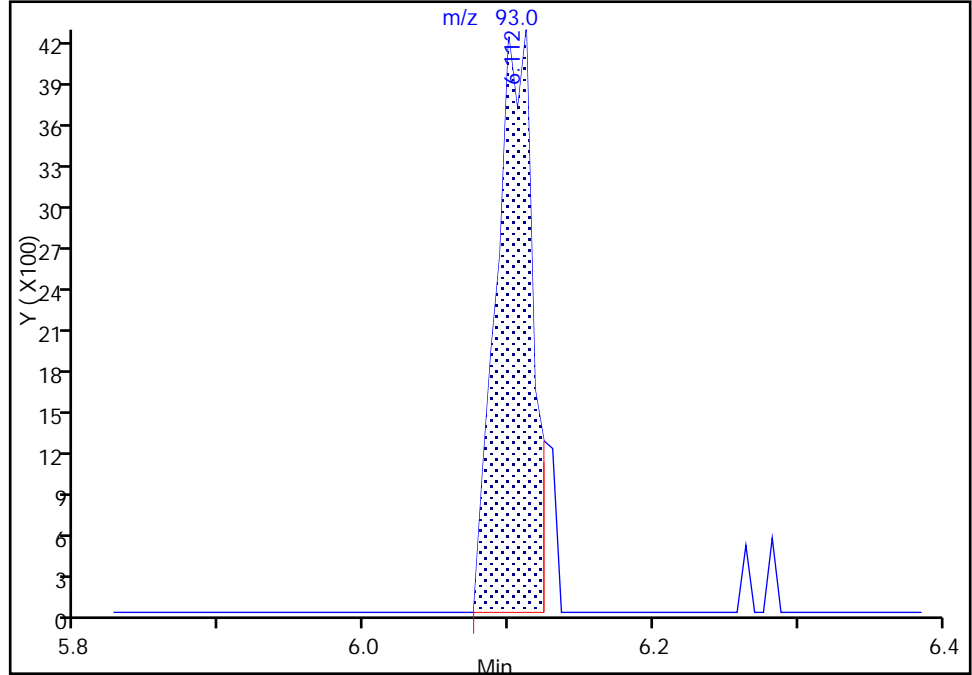
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

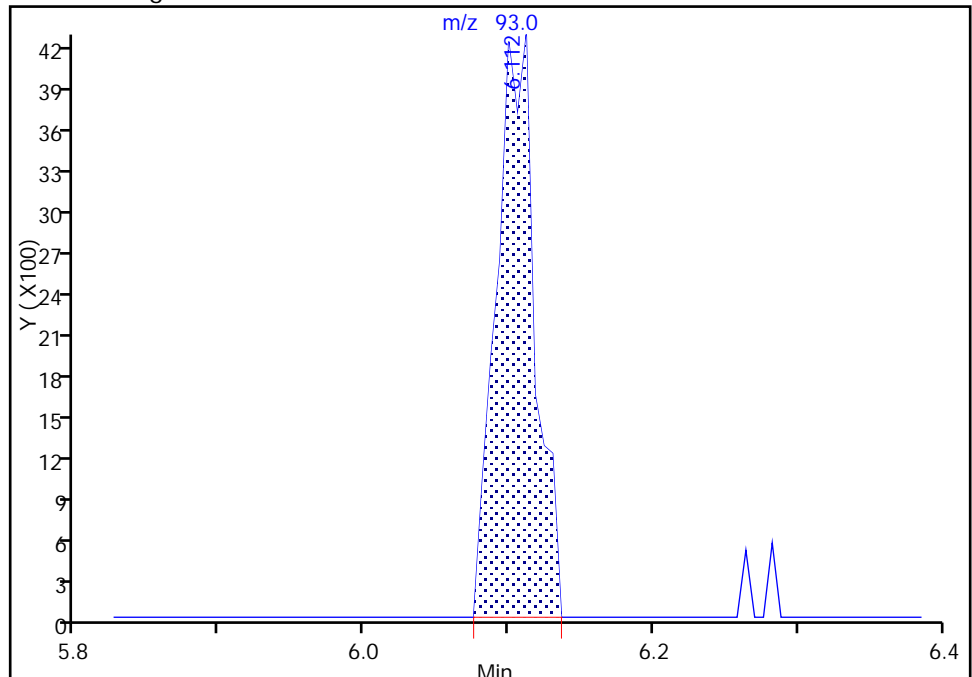
RT: 6.11
Area: 7547
Amount: 1.012995
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 7987
Amount: 1.064198
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:07:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

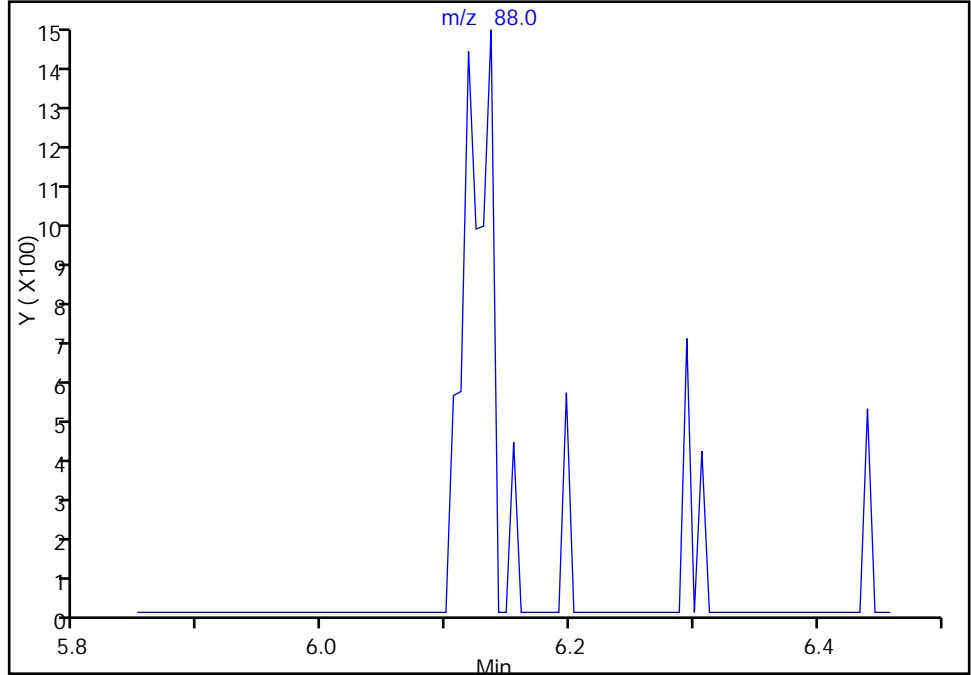
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

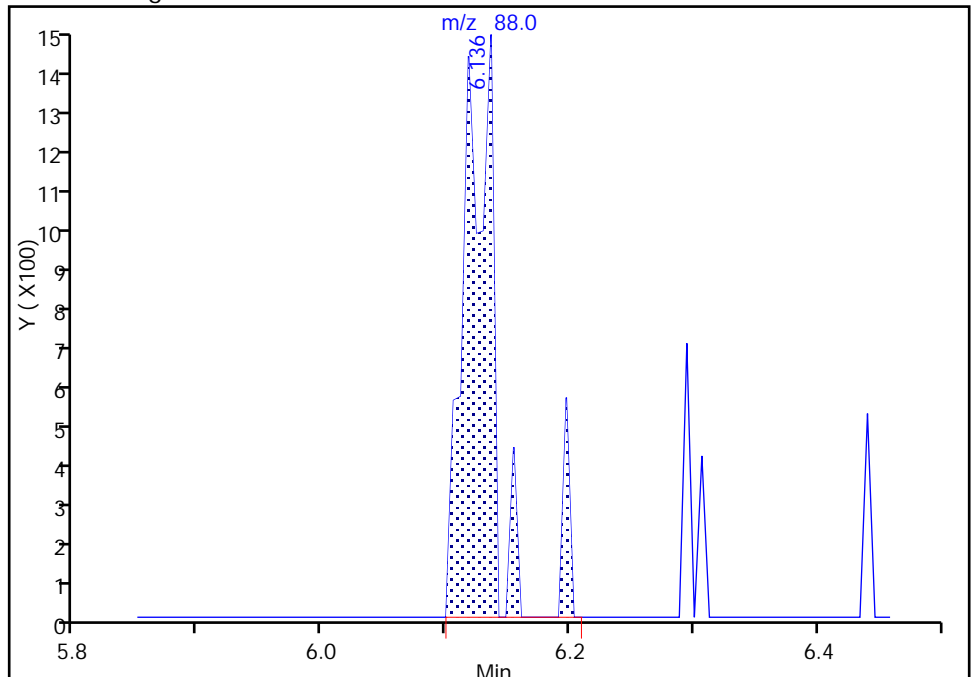
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.14
Area: 2505
Amount: 18.988745
Amount Units: ug/L



Reviewer: scibiliam, 01-Feb-2018 10:08:04
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

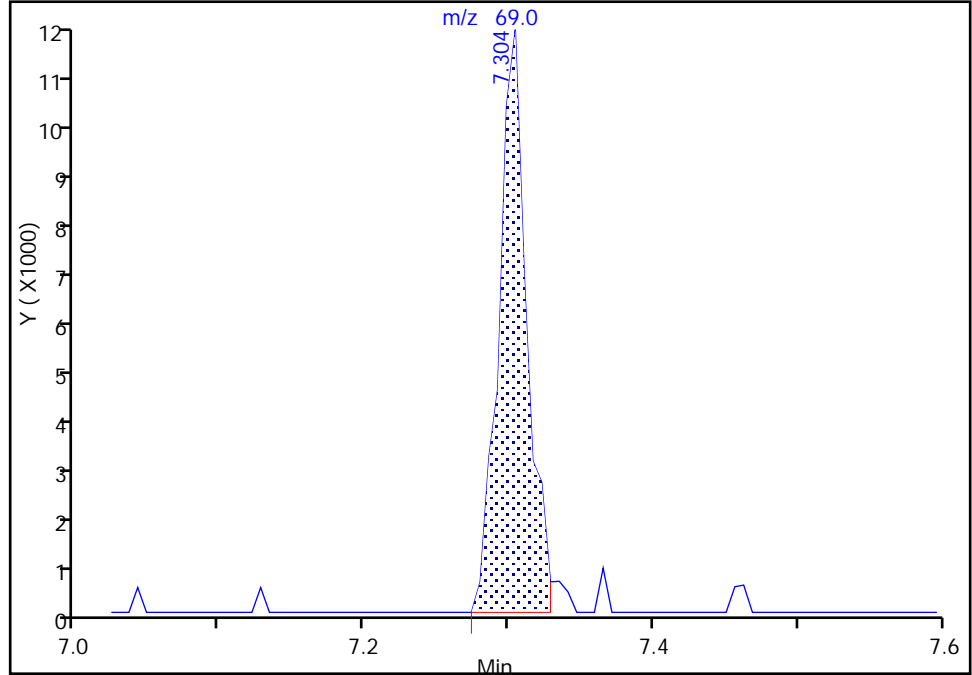
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

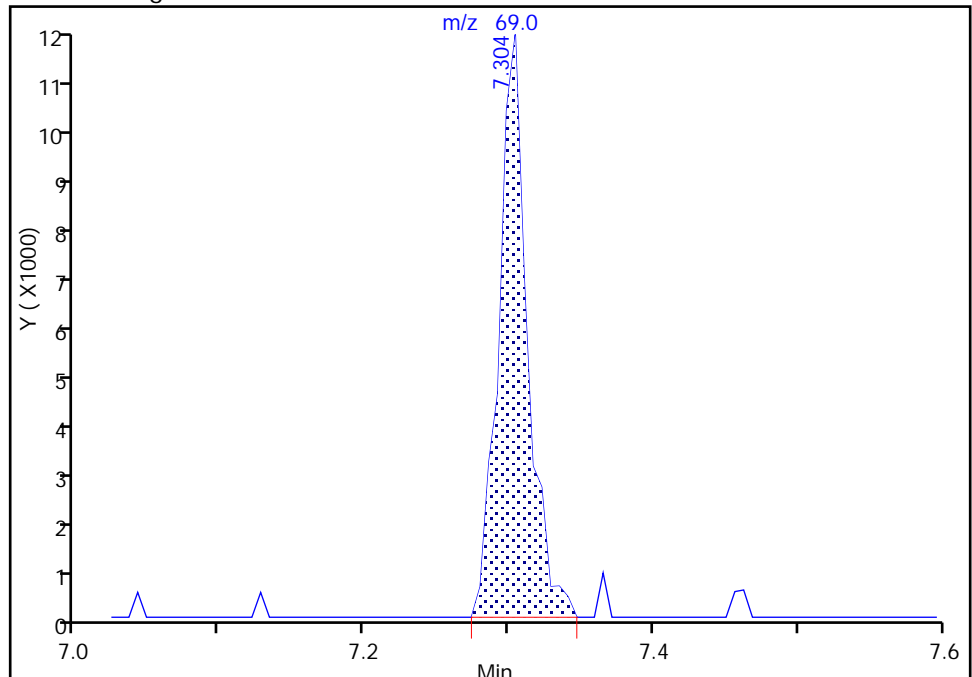
RT: 7.30
Area: 15863
Amount: 0.998322
Amount Units: ug/L

Processing Integration Results



RT: 7.30
Area: 16242
Amount: 1.016691
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:08:30
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

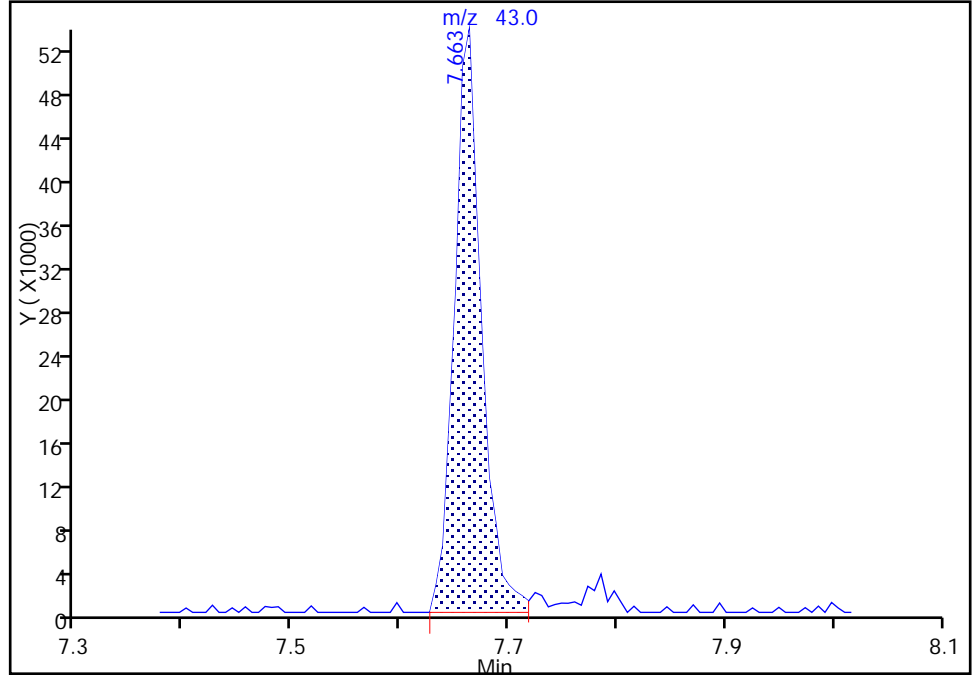
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

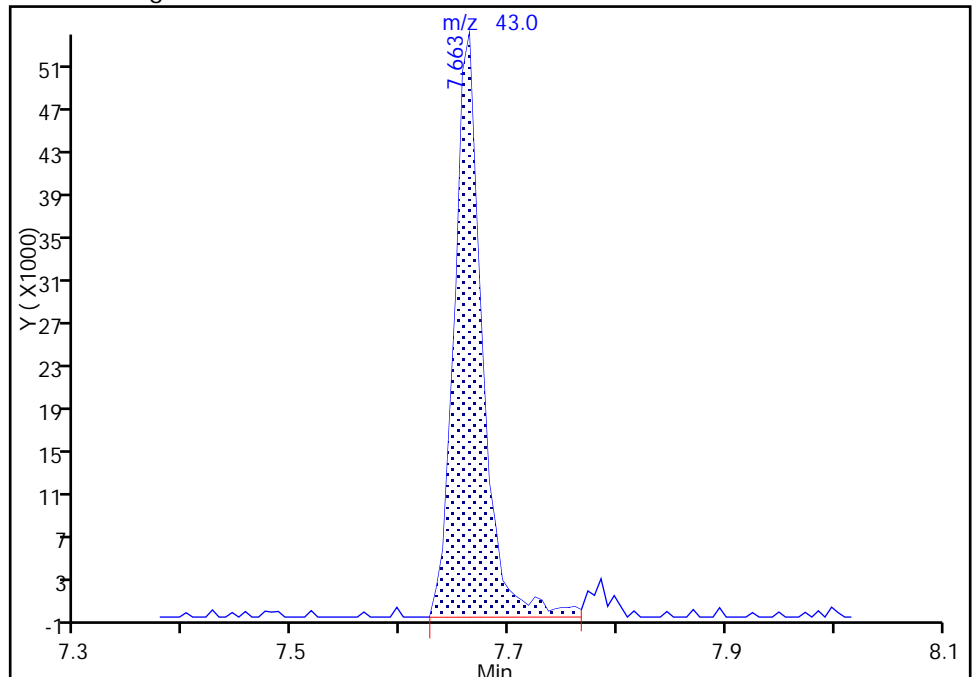
RT: 7.66
Area: 92996
Amount: 5.105736
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 95945
Amount: 5.208427
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:09:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

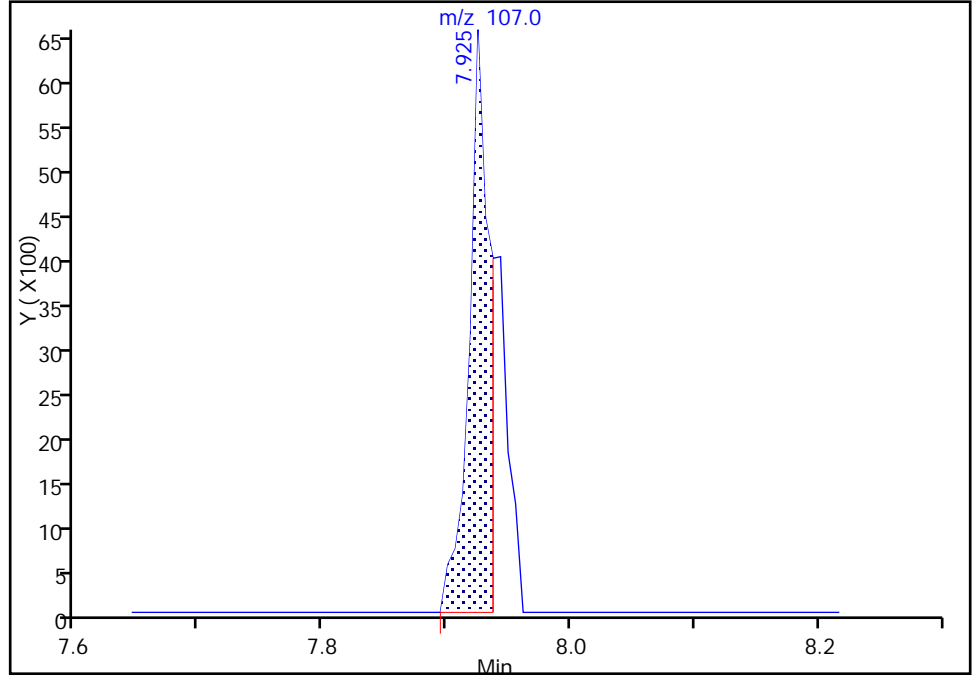
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

84 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

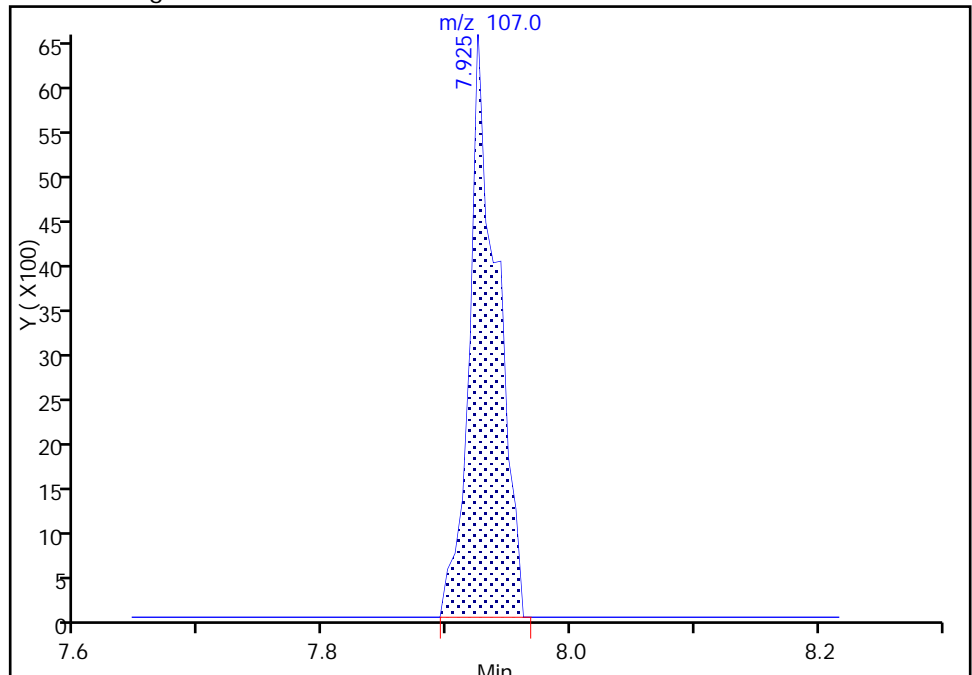
RT: 7.92
Area: 7559
Amount: 0.720433
Amount Units: ug/L

Processing Integration Results



RT: 7.92
Area: 10127
Amount: 0.936532
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:09:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

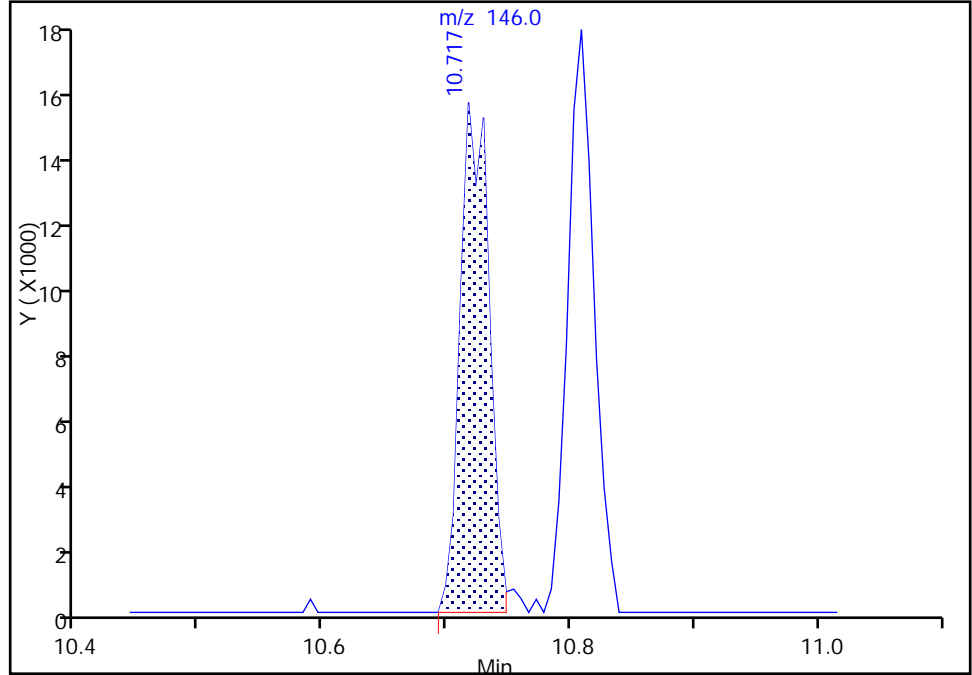
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

110 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 1

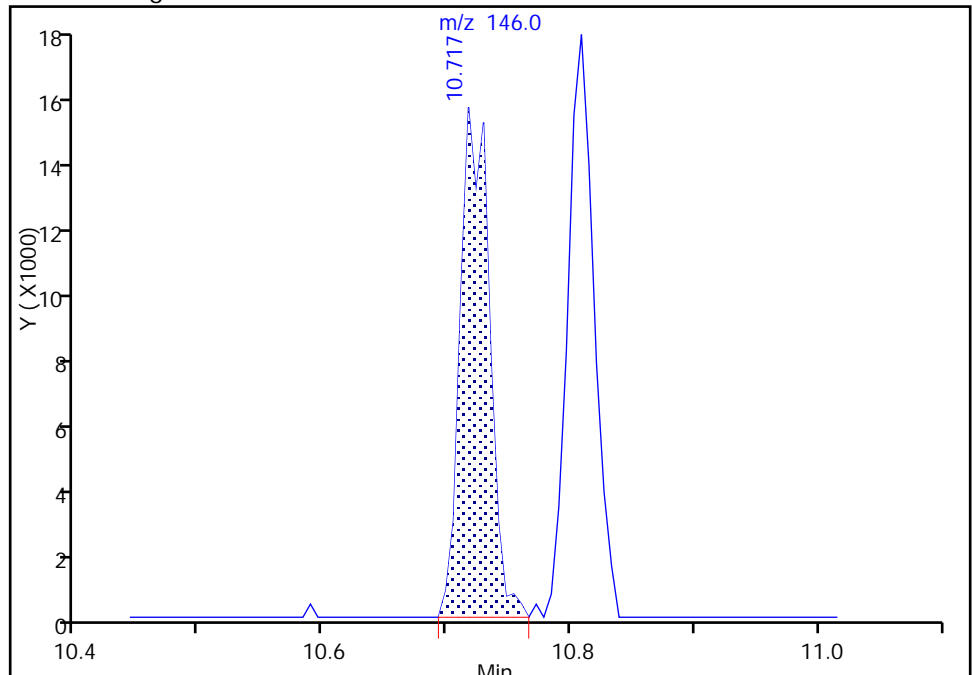
RT: 10.72
Area: 25252
Amount: 0.953488
Amount Units: ug/L

Processing Integration Results



RT: 10.72
Area: 25665
Amount: 0.967197
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:10:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

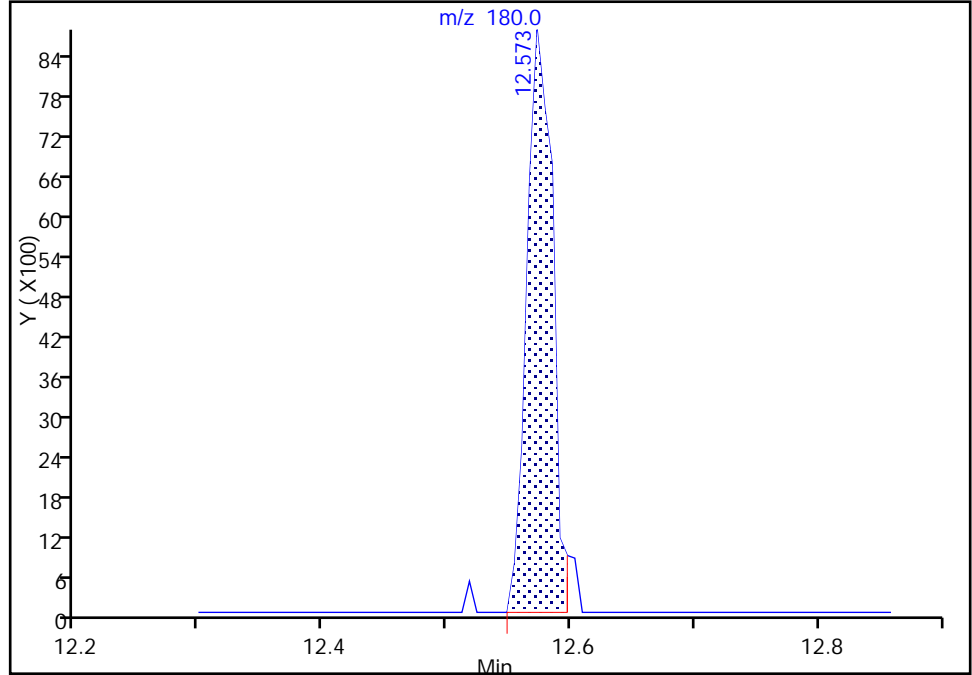
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

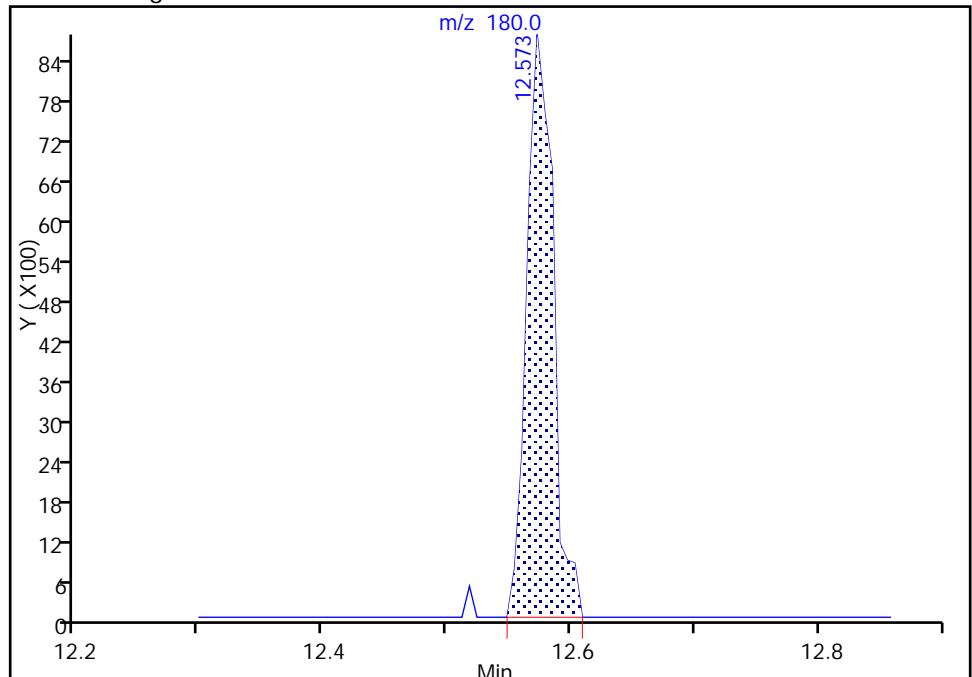
RT: 12.57
Area: 12671
Amount: 0.812939
Amount Units: ug/L

Processing Integration Results



RT: 12.57
Area: 12968
Amount: 0.830017
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:10:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

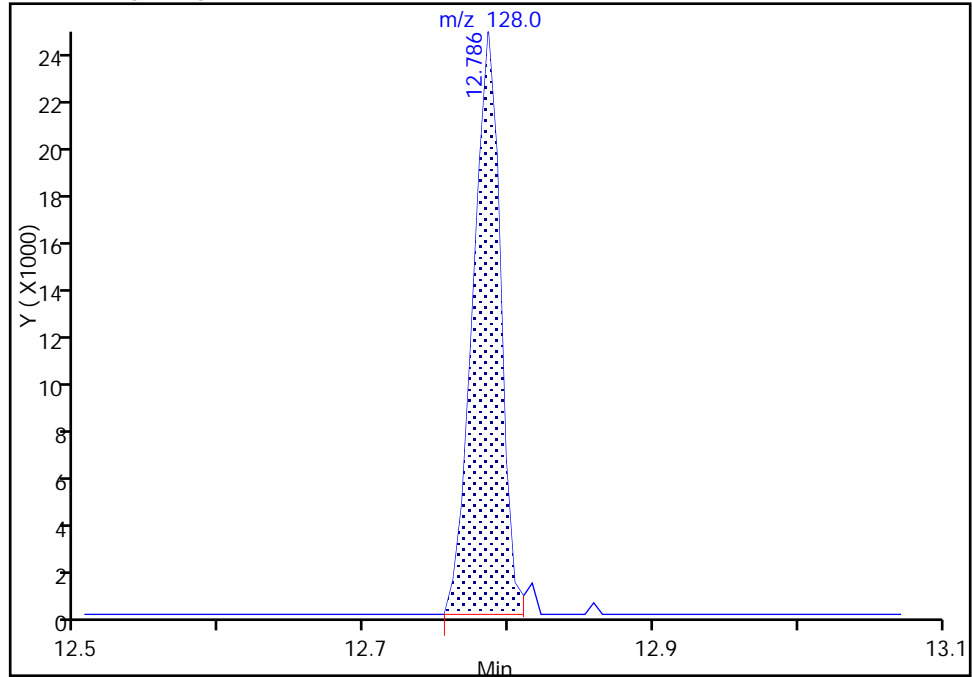
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6814.D
Injection Date: 31-Jan-2018 15:59:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

121 Naphthalene, CAS: 91-20-3

Signal: 1

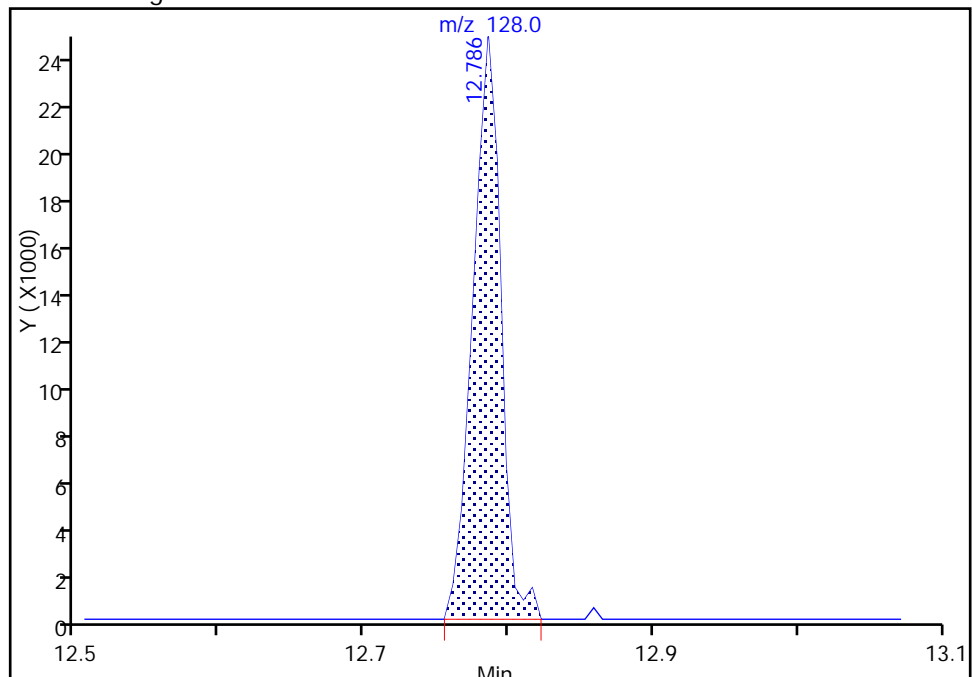
RT: 12.79
Area: 31890
Amount: 0.986038
Amount Units: ug/L

Processing Integration Results



RT: 12.79
Area: 32362
Amount: 0.787489
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:11:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6815.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 31-Jan-2018 16:26:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0068951-009
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:15 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibiliam

Date: 01-Feb-2018 09:05:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	211380	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	91	768429	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	409703	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	94	234849	25.0	24.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	331388	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	96	942431	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	90	303145	25.0	25.3	
11 Dichlorodifluoromethane	85	1.336	1.330	0.006	97	18607	2.00	1.69	M
13 Chloromethane	50	1.501	1.501	0.000	99	44673	2.00	1.67	M
14 Vinyl chloride	62	1.586	1.586	0.000	98	33246	2.00	1.78	
144 Butadiene	54	1.616	1.616	0.000	97	36299	2.00	1.76	M
15 Bromomethane	94	1.890	1.902	-0.012	71	16501	2.00	1.83	
16 Chloroethane	64	1.987	1.981	0.006	95	17825	2.00	1.78	
18 Trichlorofluoromethane	101	2.194	2.188	0.006	58	25440	2.00	1.57	
17 Dichlorofluoromethane	67	2.188	2.194	-0.006	94	39679	2.00	1.87	
19 Ethyl ether	59	2.474	2.474	0.000	95	29080	2.00	1.86	
20 Acrolein	56	2.626	2.626	0.000	96	34371	10.0	9.09	M
22 1,1-Dichloroethene	96	2.681	2.681	0.000	94	18666	2.00	1.95	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.699	0.006	82	15745	2.00	1.84	
23 Acetone	43	2.784	2.784	0.000	98	63812	10.0	8.86	
24 Iodomethane	142	2.833	2.827	0.006	98	31306	2.00	1.83	
25 Carbon disulfide	76	2.875	2.869	0.006	97	55418	2.00	1.85	M
27 3-Chloro-1-propene	41	3.034	3.040	-0.006	88	57510	2.00	1.77	
28 Methyl acetate	43	3.076	3.082	-0.006	99	73288	4.00	3.72	a
30 Methylene Chloride	84	3.167	3.167	0.000	87	26951	2.00	1.83	
31 2-Methyl-2-propanol	59	3.332	3.338	-0.006	99	42077	20.0	20.0	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	72	21363	2.00	1.94	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	94	63801	2.00	1.76	
34 Acrylonitrile	53	3.429	3.429	0.000	96	164388	20.0	17.8	M
35 Hexane	57	3.624	3.624	0.000	95	45541	2.00	1.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.806	3.812	-0.006	95	47275	2.00	1.95	
39 Vinyl acetate	43	3.867	3.867	0.000	96	166395	4.00	3.44	
42 2,2-Dichloropropane	77	4.323	4.329	-0.006	81	24561	2.00	1.76	M
43 cis-1,2-Dichloroethene	96	4.360	4.354	0.006	89	22715	2.00	1.81	
44 2-Butanone (MEK)	43	4.390	4.384	0.006	96	105056	10.0	8.70	M
47 Chlorobromomethane	128	4.585	4.579	0.006	83	11412	2.00	1.81	
49 Tetrahydrofuran	42	4.628	4.615	0.013	93	31899	4.00	3.67	
50 Chloroform	83	4.664	4.664	0.000	96	38321	2.00	1.92	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	30951	2.00	1.93	M
52 Cyclohexane	56	4.816	4.816	0.000	39	53244	2.00	1.89	
53 Carbon tetrachloride	117	4.938	4.938	0.000	74	24351	2.00	1.81	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	81	28435	2.00	1.89	
56 Isobutyl alcohol	43	5.132	5.132	0.000	71	52550	50.0	43.4	
55 Benzene	78	5.139	5.139	0.000	93	79992	2.00	1.78	
57 1,2-Dichloroethane	62	5.193	5.187	0.006	95	40795	2.00	1.89	
59 n-Heptane	43	5.345	5.345	0.000	95	48090	2.00	1.80	
60 Trichloroethene	95	5.753	5.747	0.006	91	19679	2.00	1.67	
62 Methylcyclohexane	83	5.887	5.887	0.000	91	31498	2.00	1.74	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	88	26150	2.00	1.88	
64 Dibromomethane	93	6.106	6.100	0.006	91	14598	2.00	2.04	
66 1,4-Dioxane	88	6.124	6.118	0.006	1	3873	40.0	30.2	Ma
67 Dichlorobromomethane	83	6.258	6.258	0.000	94	24429	2.00	1.67	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	83	18843	2.00	1.82	M
71 cis-1,3-Dichloropropene	75	6.684	6.678	0.006	82	29788	2.00	1.75	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	70720	10.0	8.56	
73 Toluene	92	6.976	6.982	-0.006	96	51152	2.00	1.78	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	96	26254	2.00	1.71	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	27995	2.00	1.80	M
78 1,1,2-Trichloroethane	83	7.420	7.426	-0.006	92	15077	2.00	1.82	
79 Tetrachloroethene	166	7.517	7.523	-0.006	96	23800	2.00	1.94	
80 1,3-Dichloropropane	76	7.584	7.584	0.000	87	29332	2.00	1.73	
82 2-Hexanone	43	7.657	7.657	0.000	98	158614	10.0	8.85	M
83 Chlorodibromomethane	129	7.821	7.828	-0.007	85	19619	2.00	1.80	
84 Ethylene Dibromide	107	7.931	7.931	0.000	91	19702	2.00	1.87	
85 Chlorobenzene	112	8.418	8.418	0.000	95	57846	2.00	1.82	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	44	17831	2.00	1.71	
88 Ethylbenzene	91	8.521	8.521	0.000	98	97684	2.00	1.91	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	35329	2.00	1.70	
91 o-Xylene	106	9.069	9.069	0.000	96	34967	2.00	1.74	
92 Styrene	104	9.087	9.093	-0.006	92	62775	2.00	1.84	
93 Bromoform	173	9.324	9.324	0.000	92	10893	2.00	1.56	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	90442	2.00	1.72	
97 Bromobenzene	156	9.793	9.793	0.000	93	24460	2.00	1.80	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	91	25165	2.00	1.78	
99 1,2,3-Trichloropropane	110	9.872	9.859	0.013	87	7002	2.00	1.53	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	68	12453	2.00	1.70	
100 N-Propylbenzene	91	9.884	9.884	0.000	98	106788	2.00	1.78	
102 2-Chlorotoluene	126	9.981	9.981	0.000	95	22817	2.00	1.76	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	98	73136	2.00	1.69	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	74573	2.00	1.79	M
106 tert-Butylbenzene	134	10.383	10.383	0.000	94	19052	2.00	1.94	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	75863	2.00	1.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	97099	2.00	1.76	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	97	48411	2.00	1.85	
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	86963	2.00	1.77	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	48987	2.00	1.85	
115 n-Butylbenzene	91	11.125	11.125	0.000	97	72826	2.00	1.78	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.006	96	44129	2.00	1.79	M
117 1,2-Dibromo-3-Chloropropan	75	11.873	11.885	-0.012	73	3754	2.00	1.64	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	92	26482	2.00	1.72	
120 Hexachlorobutadiene	225	12.694	12.700	-0.006	92	13008	2.00	1.75	
121 Naphthalene	128	12.780	12.786	-0.006	97	67765	2.00	1.67	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	95	22839	2.00	1.74	
S 124 1,2-Dichloroethene, Total	1				0			3.75	
S 125 Total BTEX	1				0			8.90	
S 126 Xylenes, Total	1				0			3.44	
S 123 1,3-Dichloropropene, Total	1				0			3.46	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00119

Amount Added: 2.00

Units: uL

GAS CORP mix_00262

Amount Added: 2.00

Units: uL

N_8260_Surr_00314

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00103

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6815.D

Injection Date: 31-Jan-2018 16:26:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 2

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

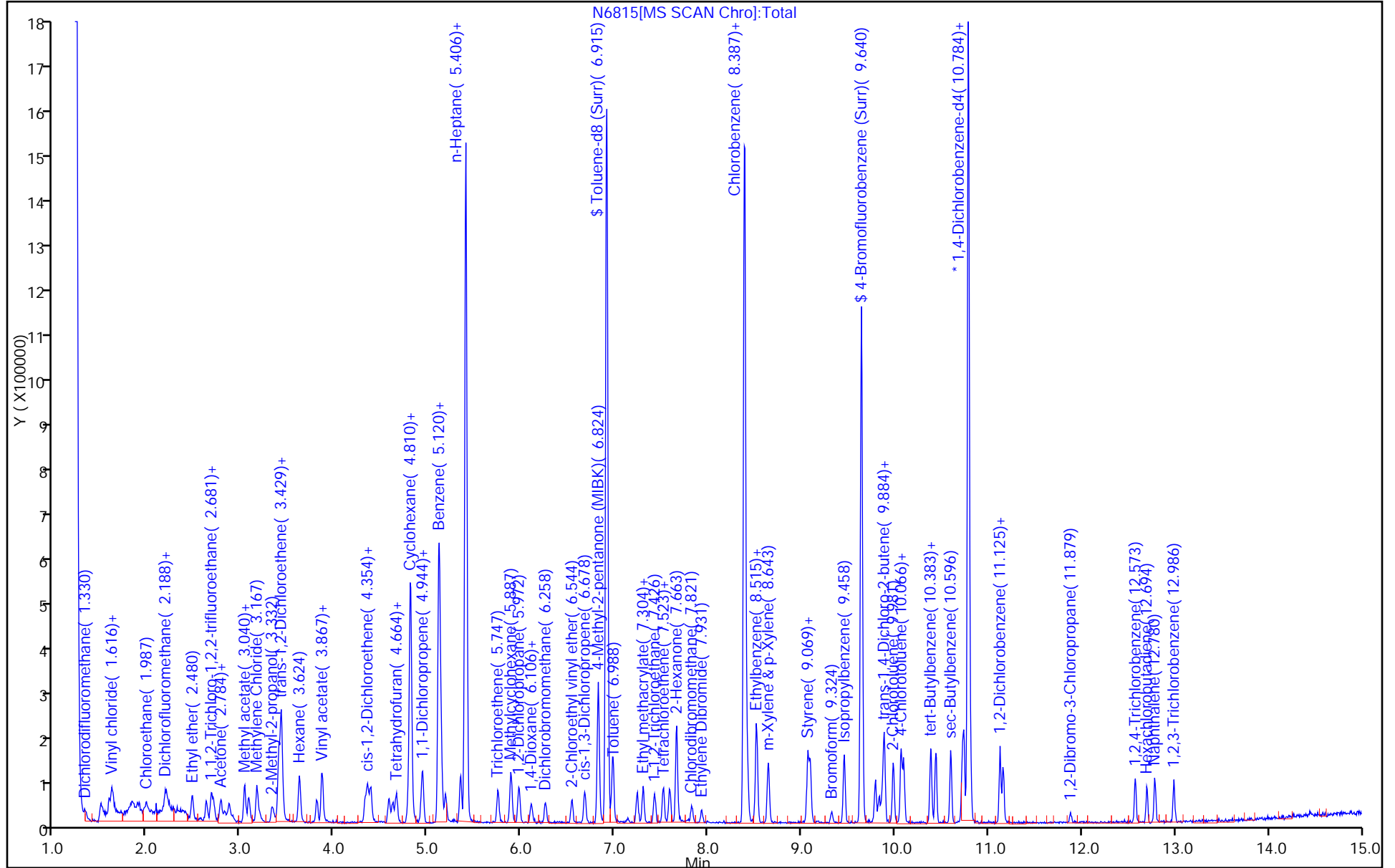
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

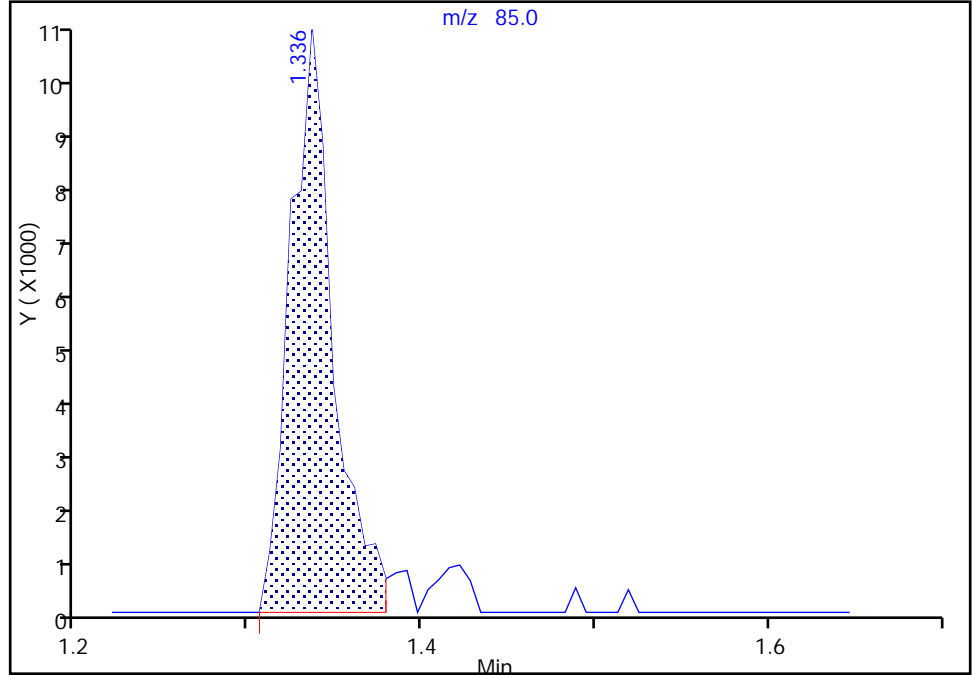
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

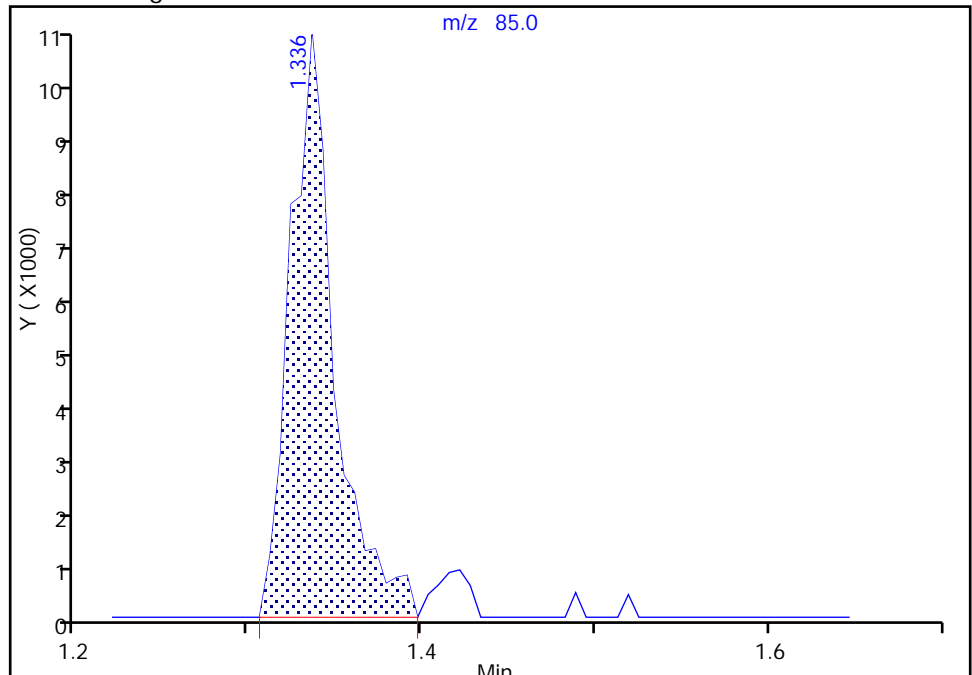
RT: 1.34
Area: 18074
Amount: 1.686521
Amount Units: ug/L

Processing Integration Results



RT: 1.34
Area: 18607
Amount: 1.690500
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:11:51
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

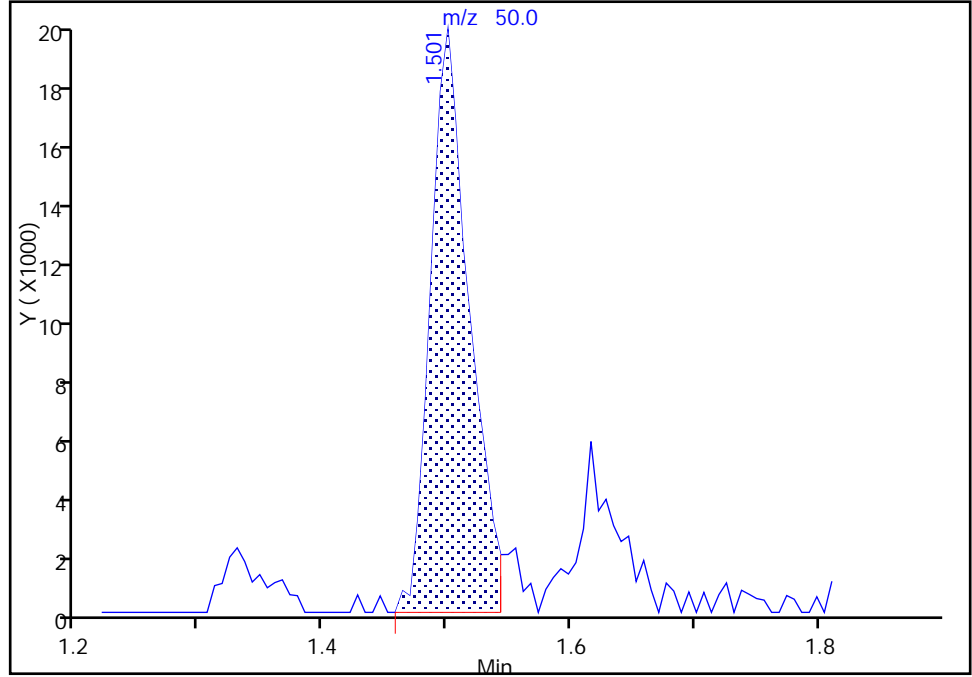
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

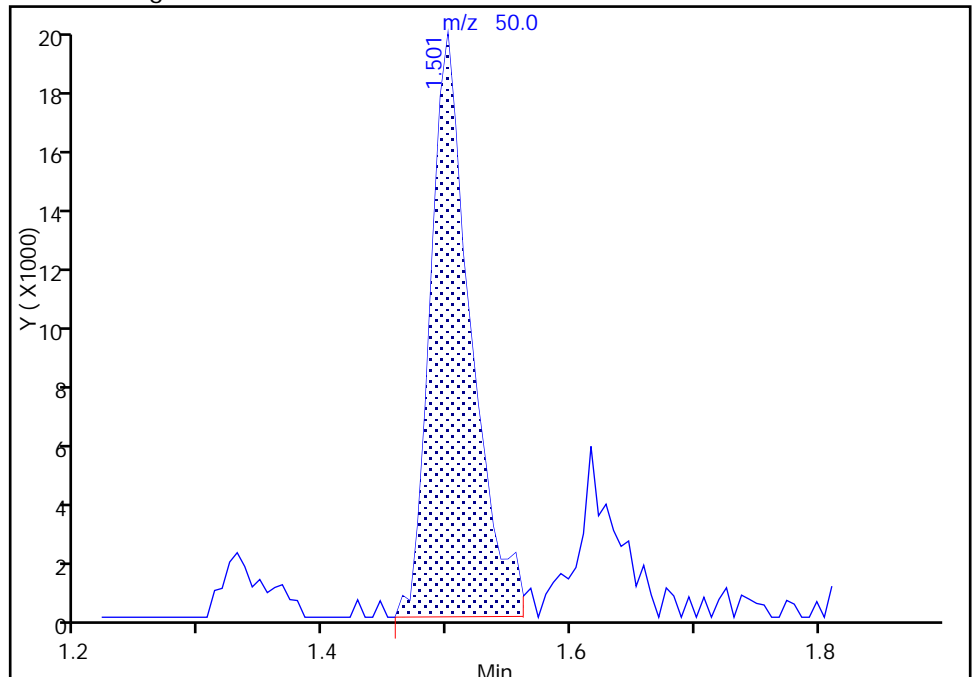
RT: 1.50
Area: 43016
Amount: 1.616877
Amount Units: ug/L

Processing Integration Results



RT: 1.50
Area: 44673
Amount: 1.672649
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:12:11
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

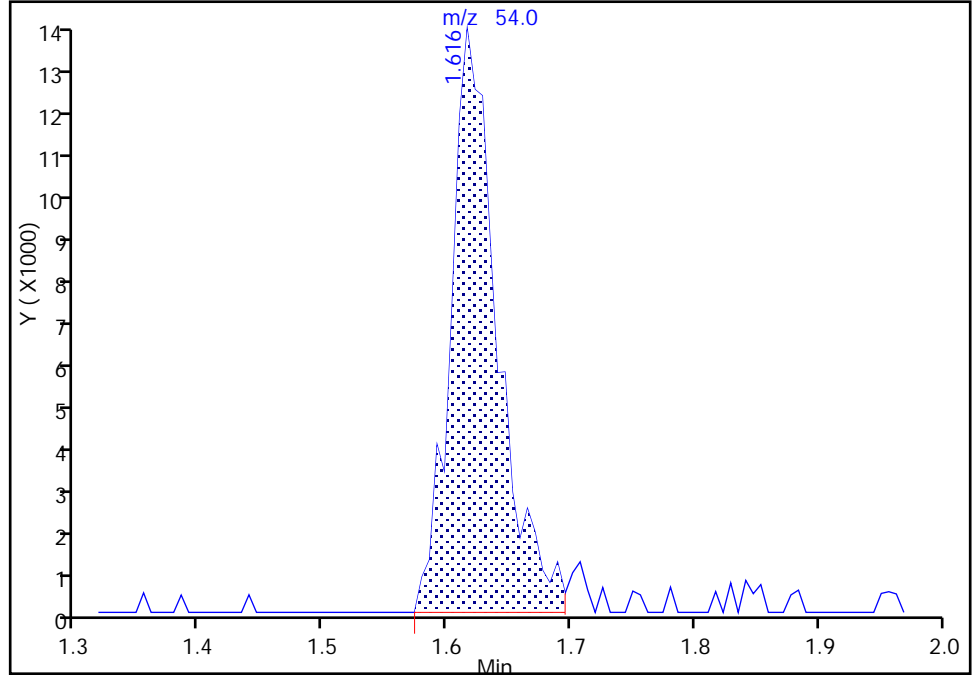
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

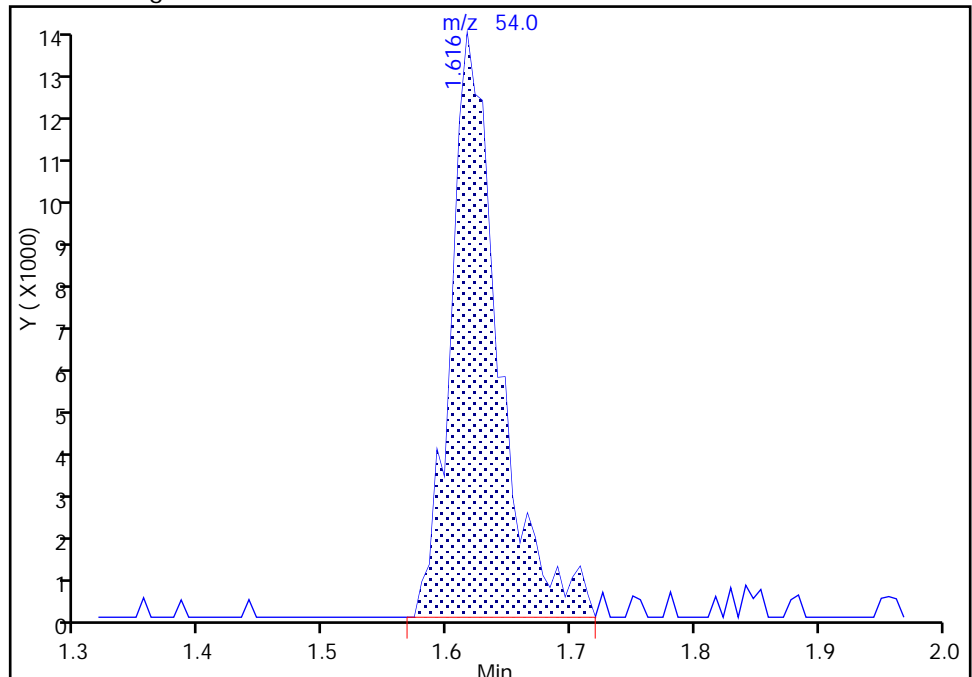
RT: 1.62
Area: 35349
Amount: 1.727554
Amount Units: ug/L

Processing Integration Results



RT: 1.62
Area: 36299
Amount: 1.759051
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:12:26
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

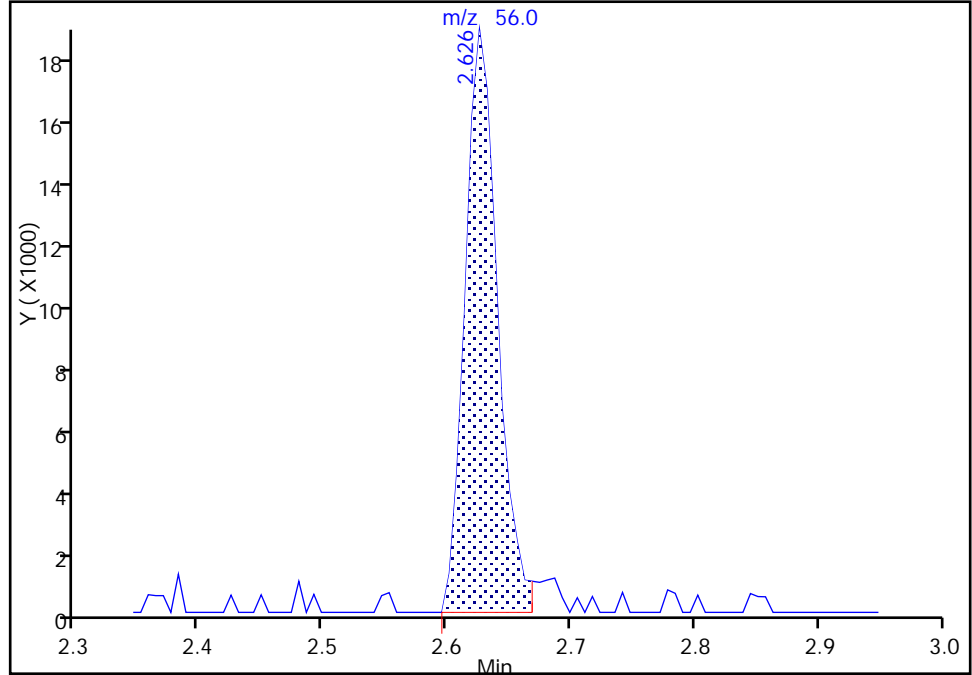
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

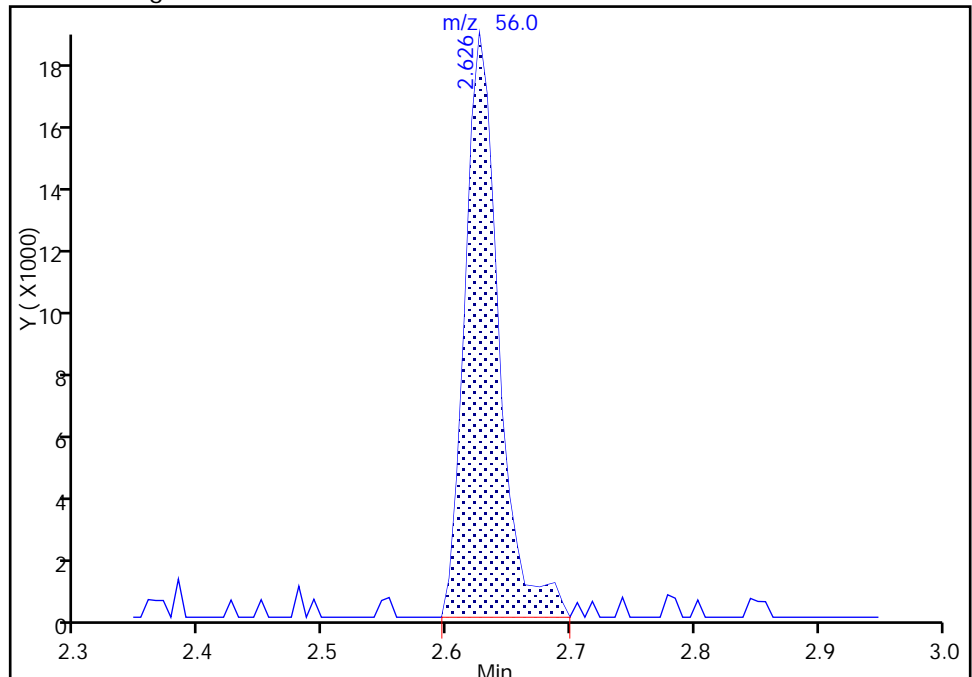
RT: 2.63
Area: 33104
Amount: 8.446340
Amount Units: ug/L

Processing Integration Results



RT: 2.63
Area: 34371
Amount: 9.085386
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:12:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

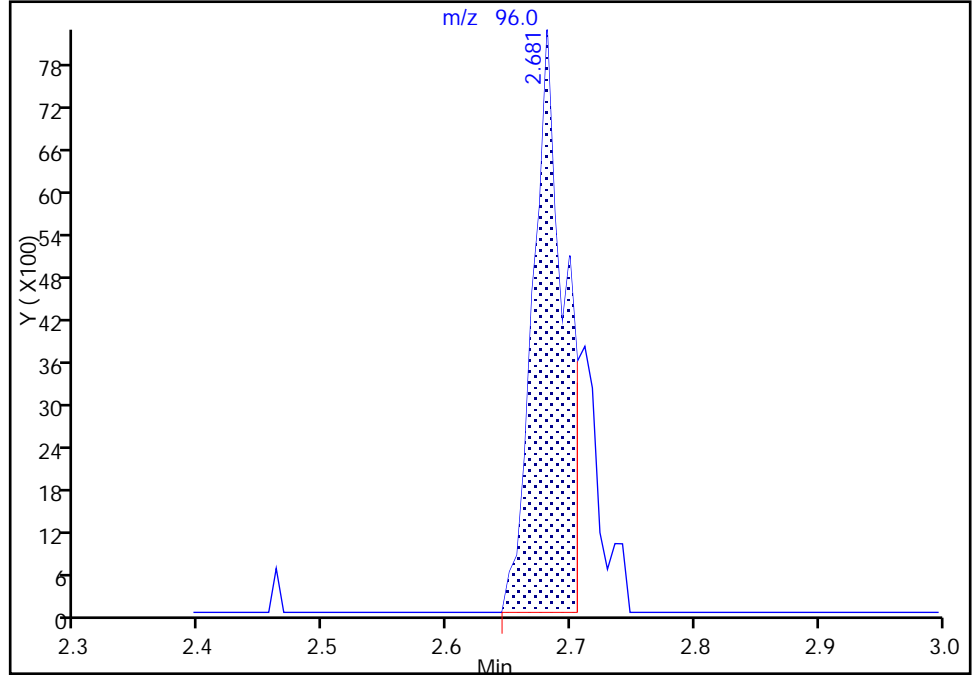
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

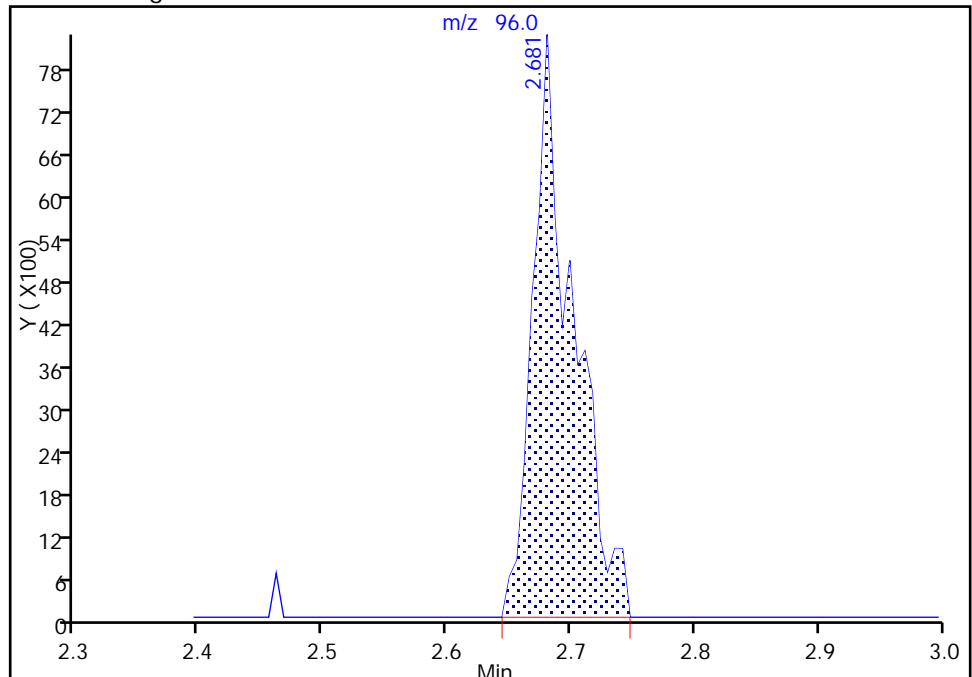
RT: 2.68
Area: 14782
Amount: 1.586921
Amount Units: ug/L

Processing Integration Results



RT: 2.68
Area: 18666
Amount: 1.949000
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:12:49
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

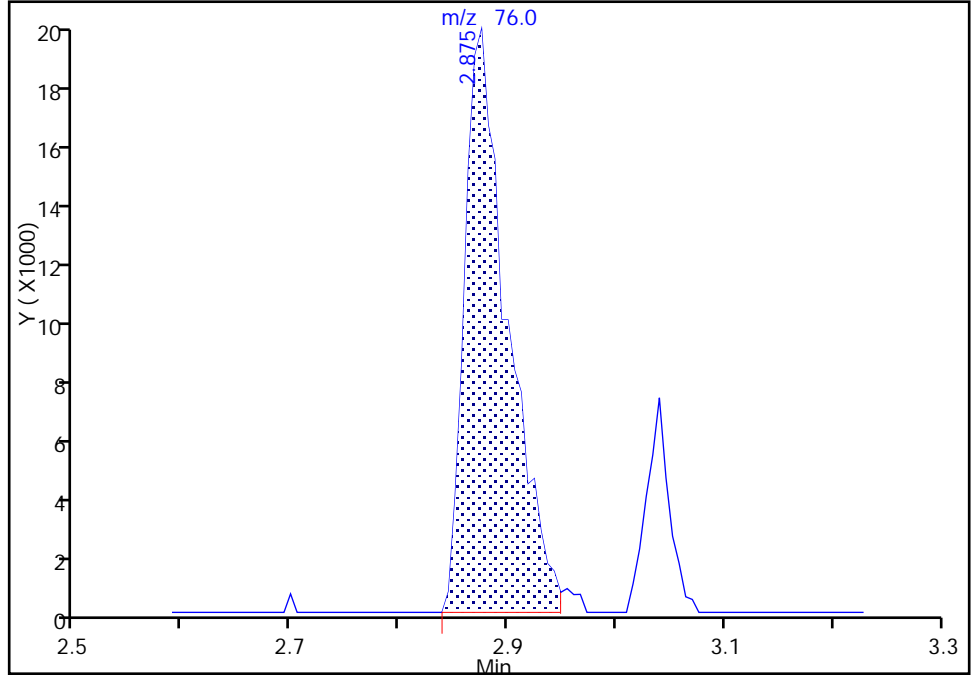
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

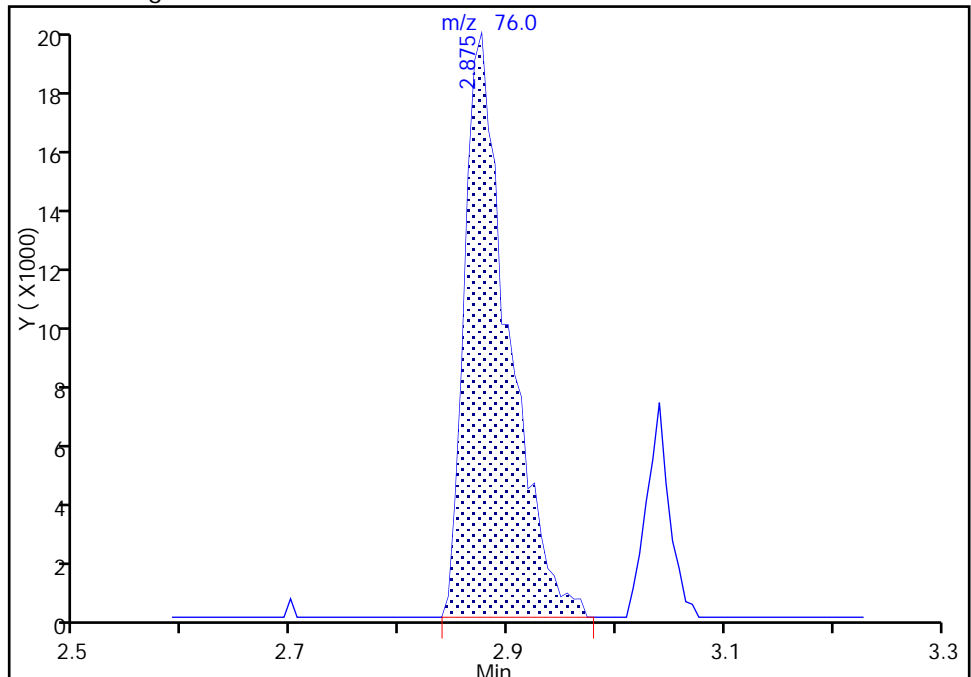
RT: 2.88
Area: 54679
Amount: 1.823559
Amount Units: ug/L

Processing Integration Results



RT: 2.88
Area: 55418
Amount: 1.845363
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:13:02
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

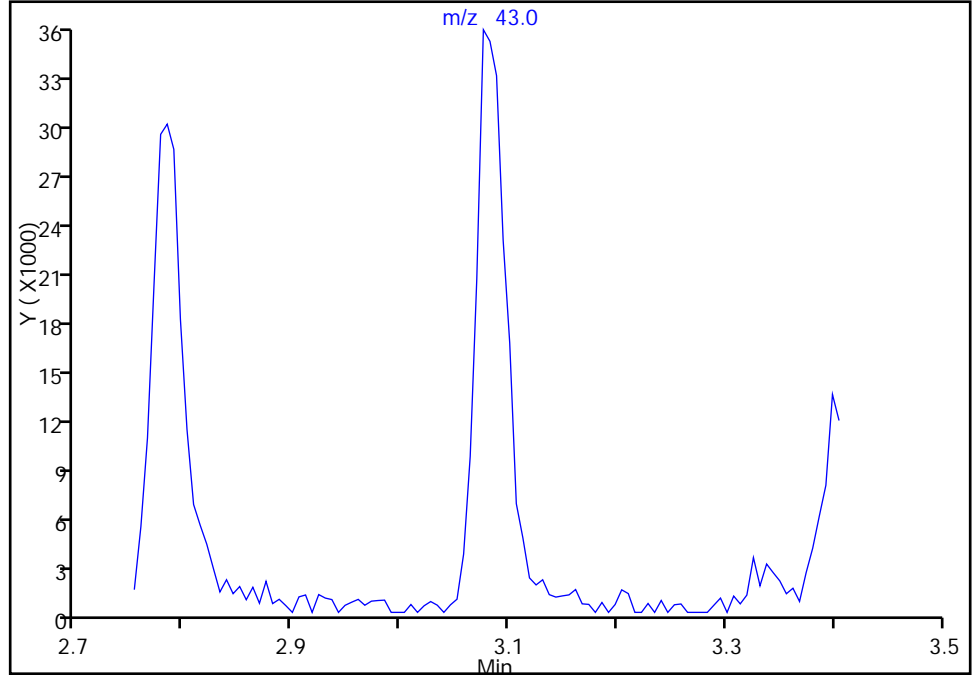
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

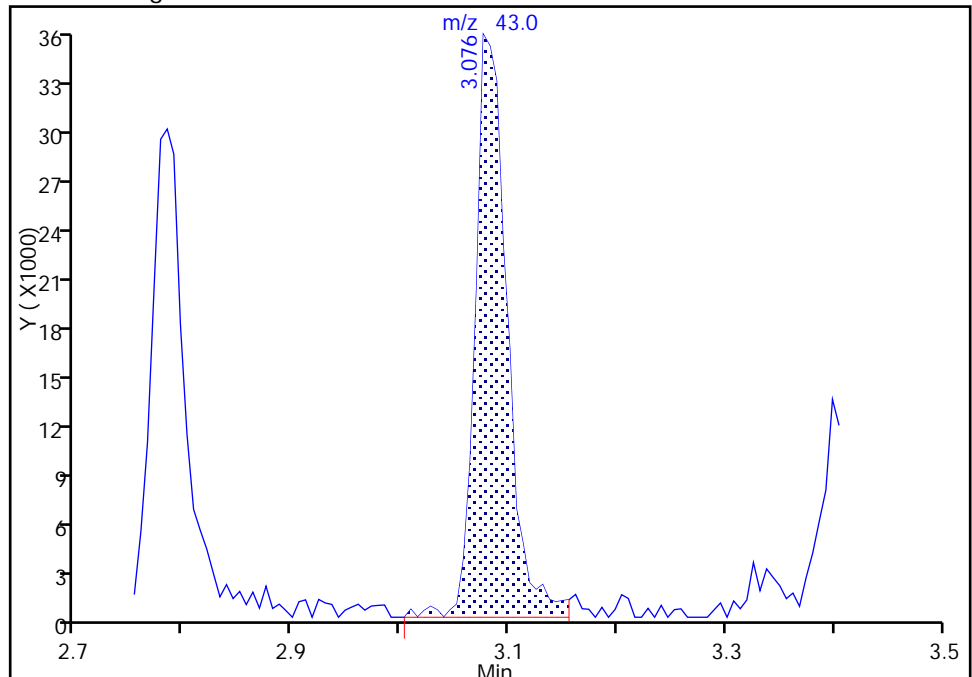
Signal: 1

Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results



RT: 3.08
Area: 73288
Amount: 3.720165
Amount Units: ug/L

Reviewer: scibilliam, 01-Feb-2018 10:13:17
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

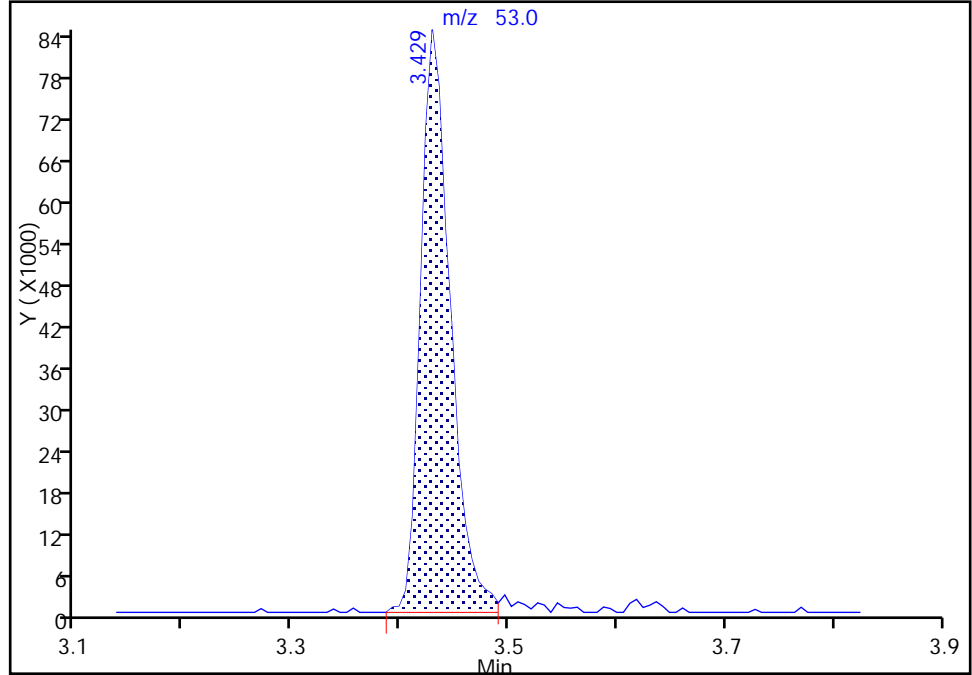
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

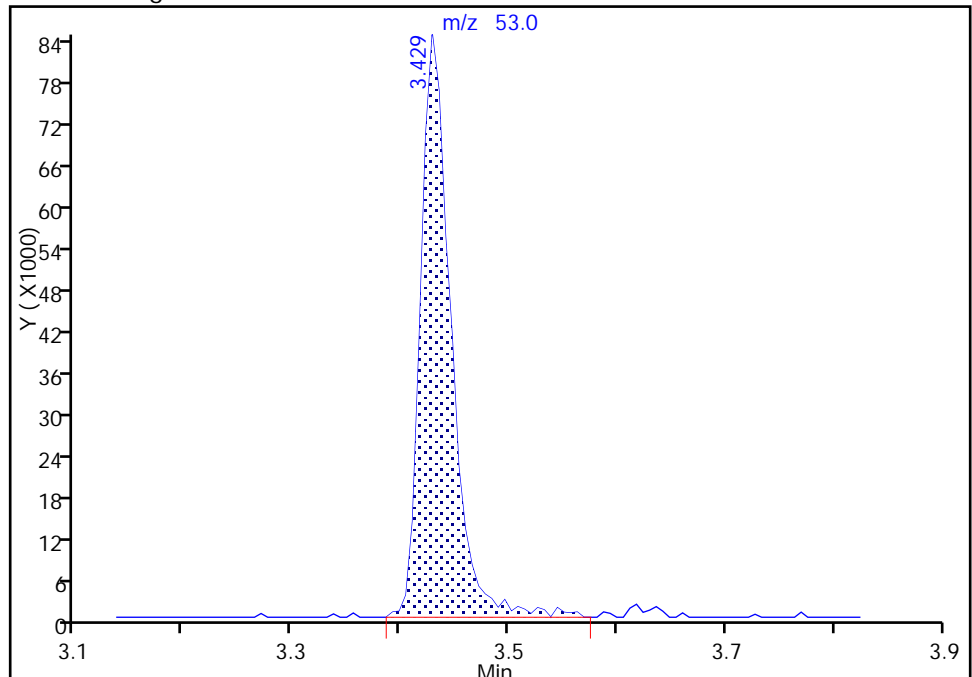
RT: 3.43
Area: 159849
Amount: 17.341675
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 164388
Amount: 17.757666
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:13:43
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

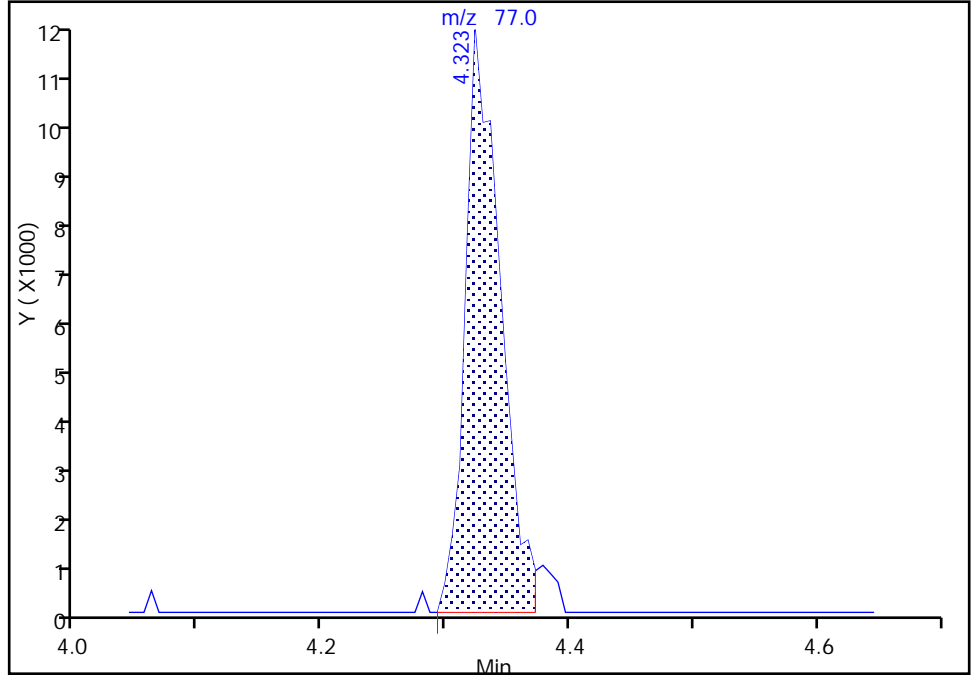
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

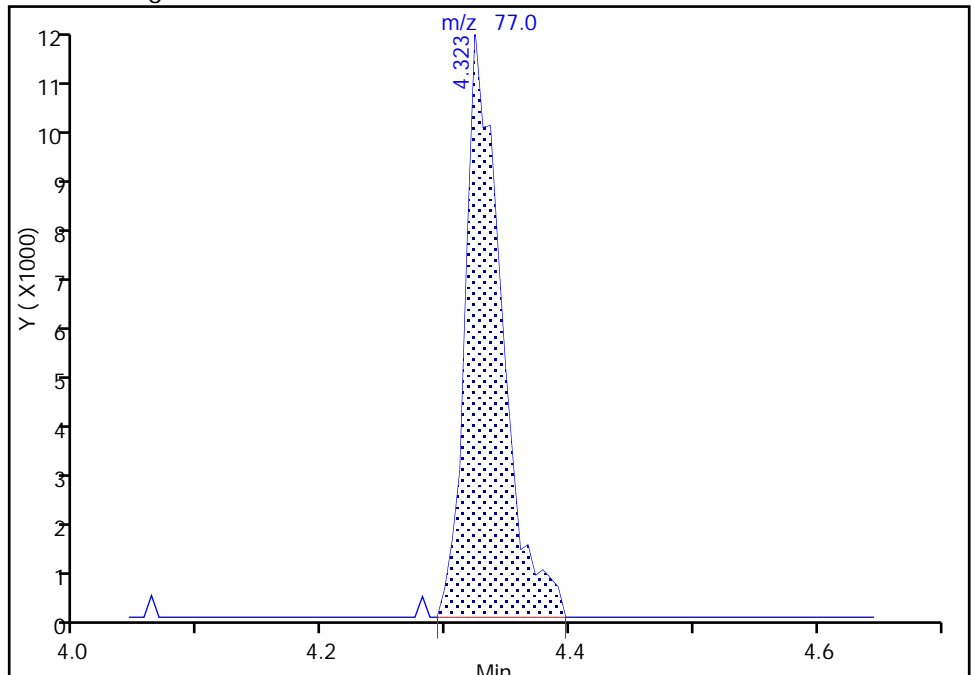
RT: 4.32
Area: 23689
Amount: 1.706391
Amount Units: ug/L

Processing Integration Results



RT: 4.32
Area: 24561
Amount: 1.762285
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:14:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

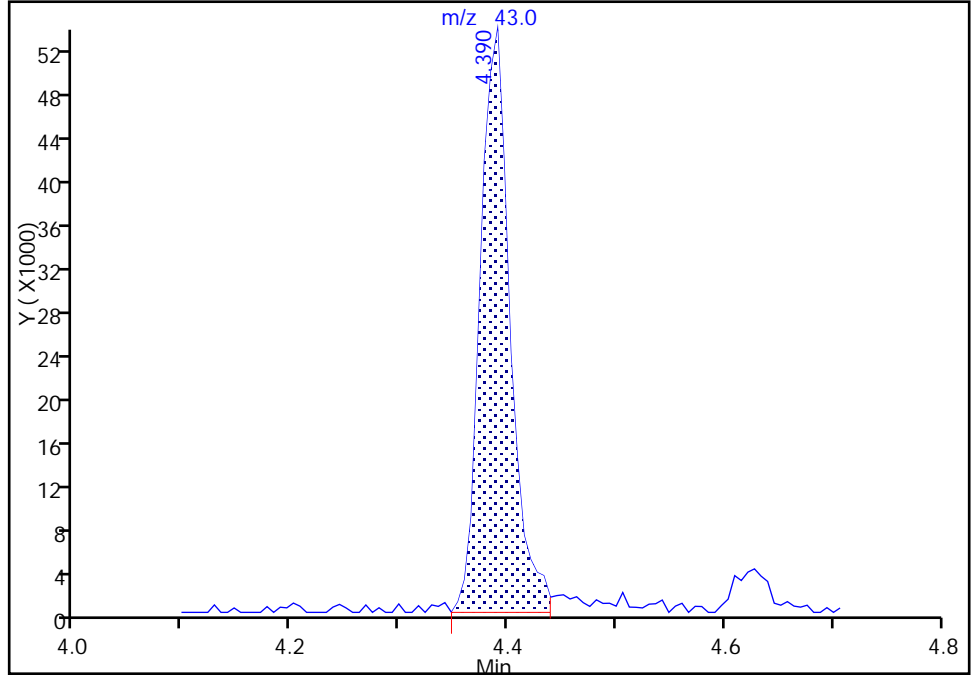
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

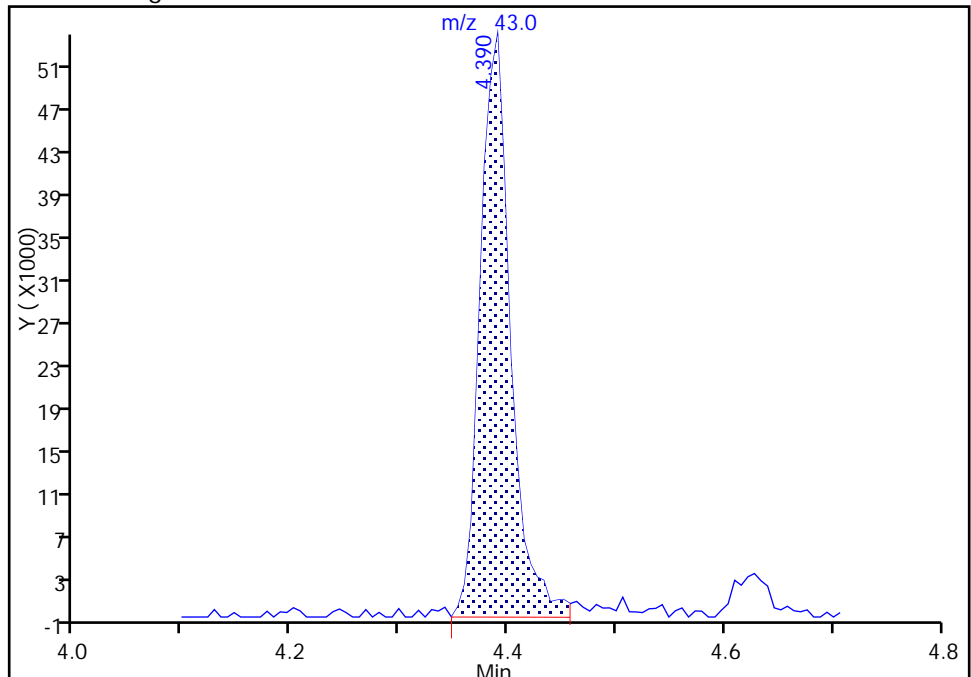
RT: 4.39
Area: 103374
Amount: 8.579038
Amount Units: ug/L

Processing Integration Results



RT: 4.39
Area: 105056
Amount: 8.703442
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:14:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

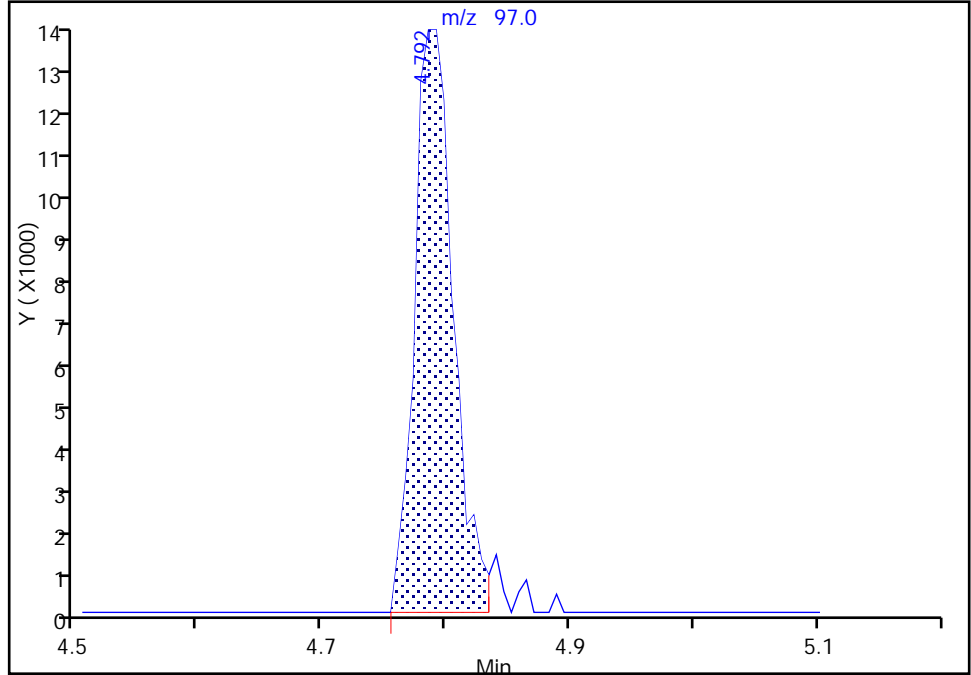
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

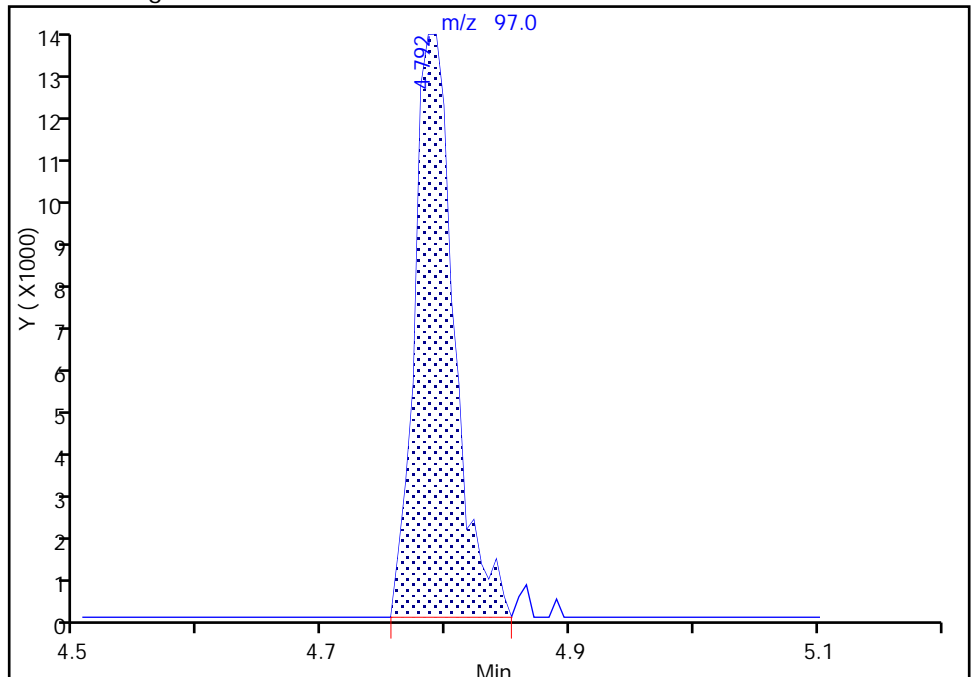
RT: 4.79
Area: 30267
Amount: 1.889468
Amount Units: ug/L

Processing Integration Results



RT: 4.79
Area: 30951
Amount: 1.927025
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:15:06
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

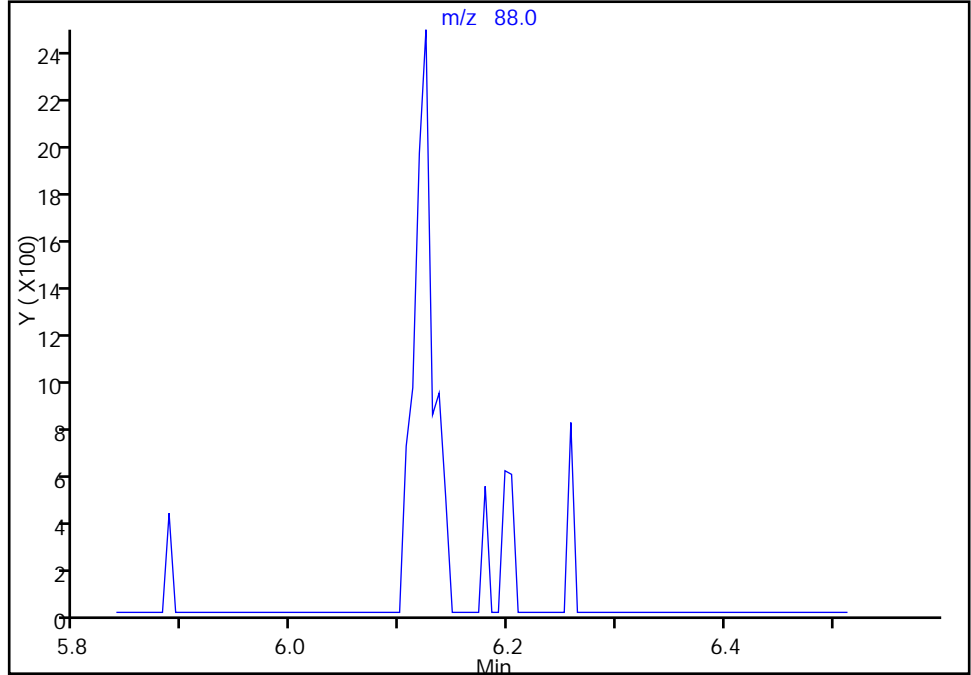
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6815.D
Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

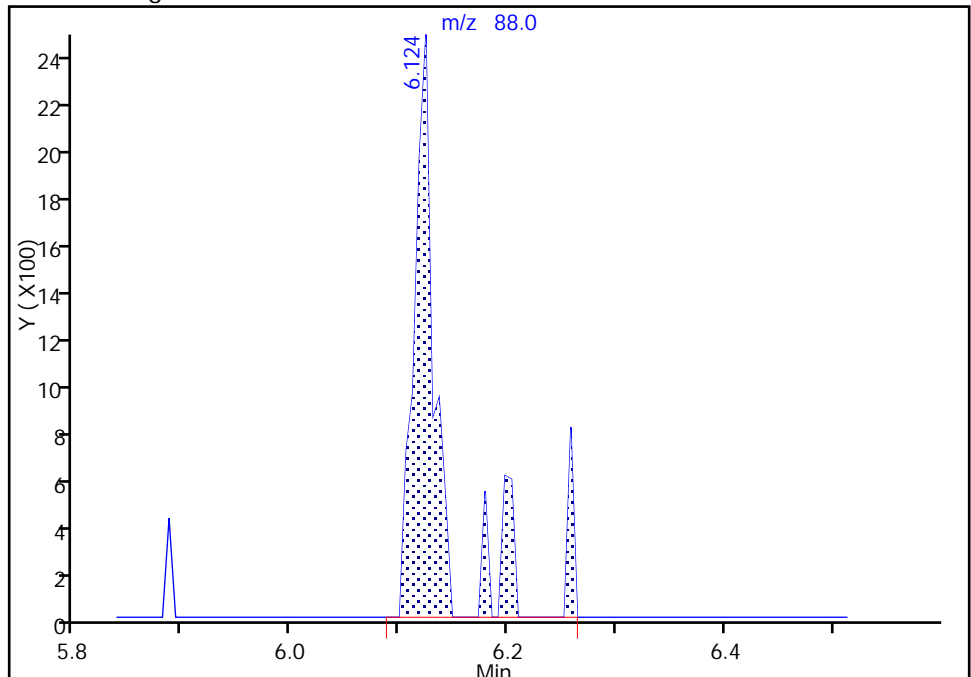
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 3873
Amount: 30.159064
Amount Units: ug/L



Reviewer: scibiliam, 01-Feb-2018 10:15:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

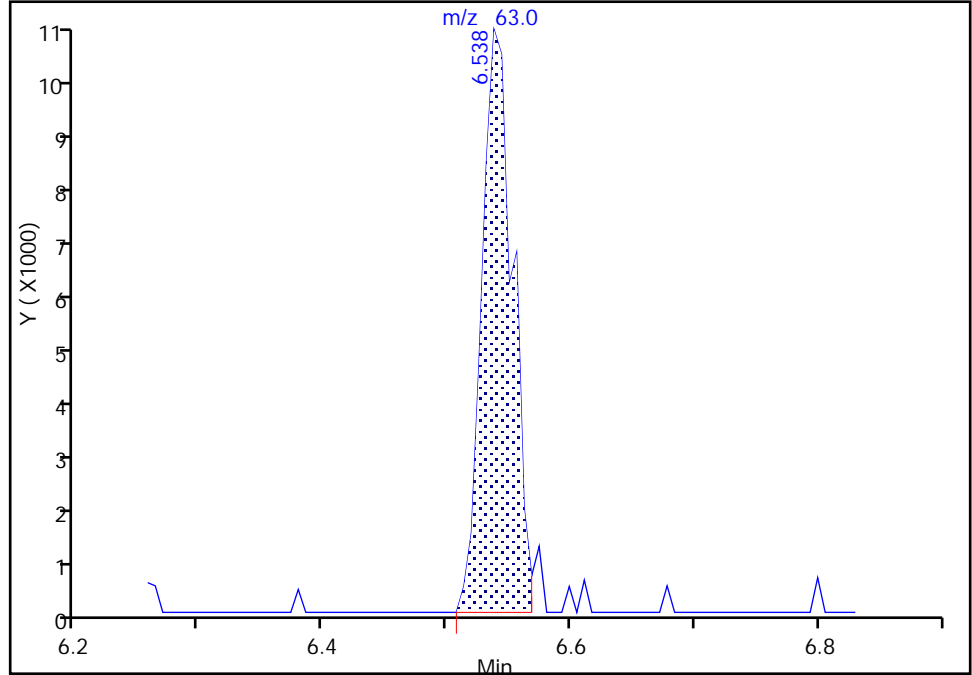
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6815.D
Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

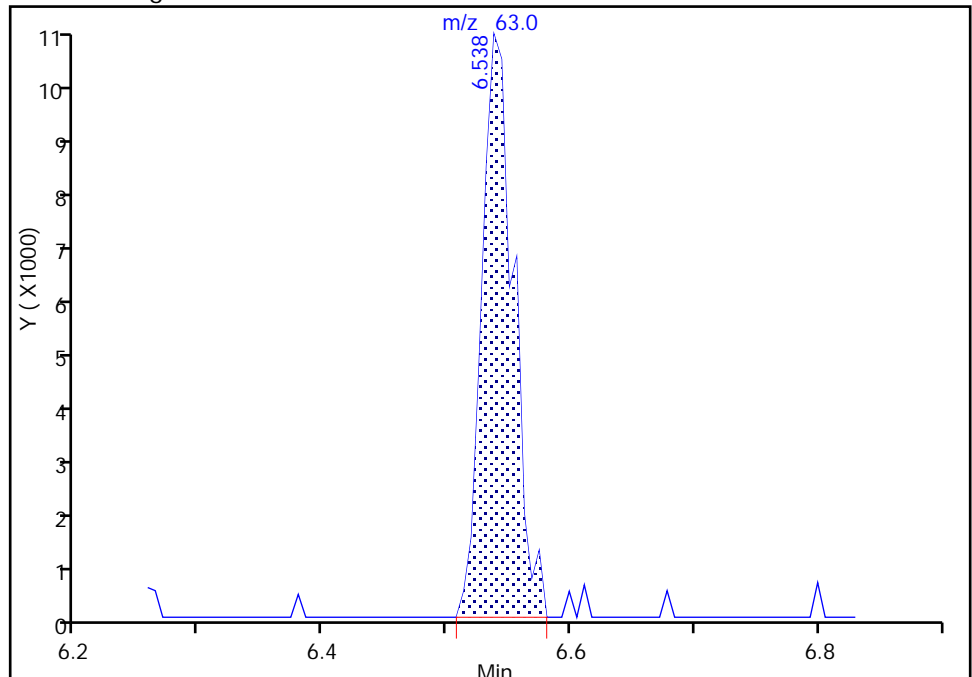
RT: 6.54
Area: 18405
Amount: 1.785502
Amount Units: ug/L

Processing Integration Results



RT: 6.54
Area: 18843
Amount: 1.823152
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:15:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

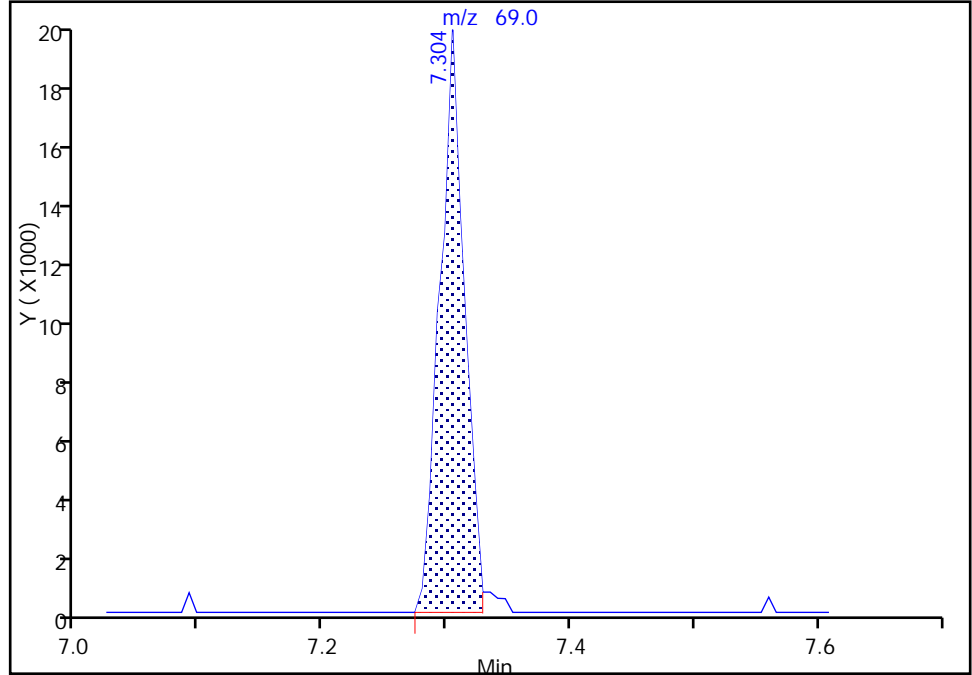
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6815.D
Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

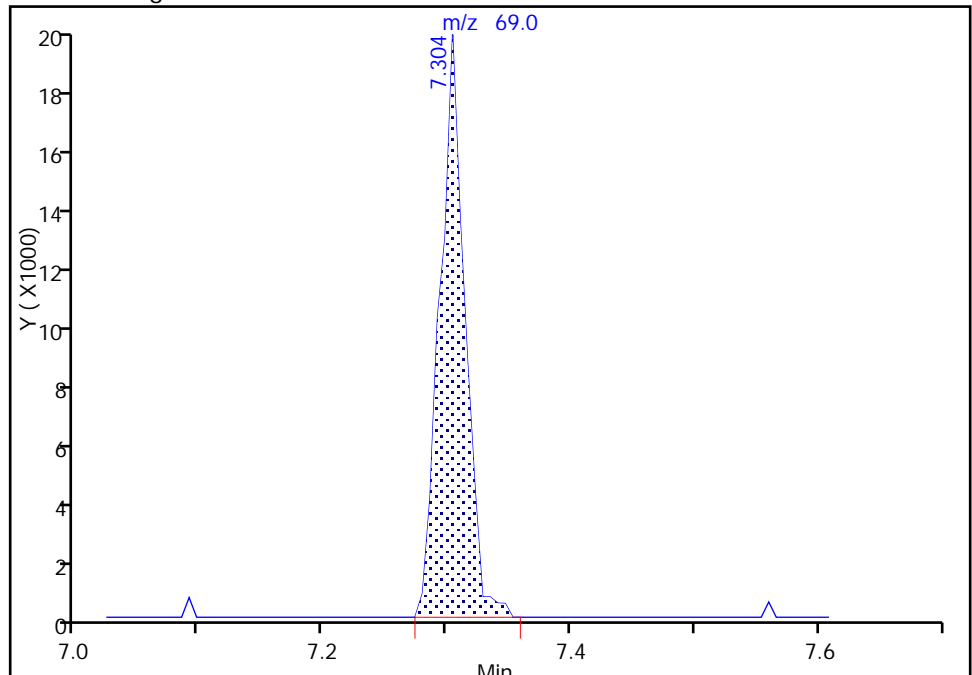
RT: 7.30
Area: 27398
Amount: 1.766010
Amount Units: ug/L

Processing Integration Results



RT: 7.30
Area: 27995
Amount: 1.800162
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:16:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

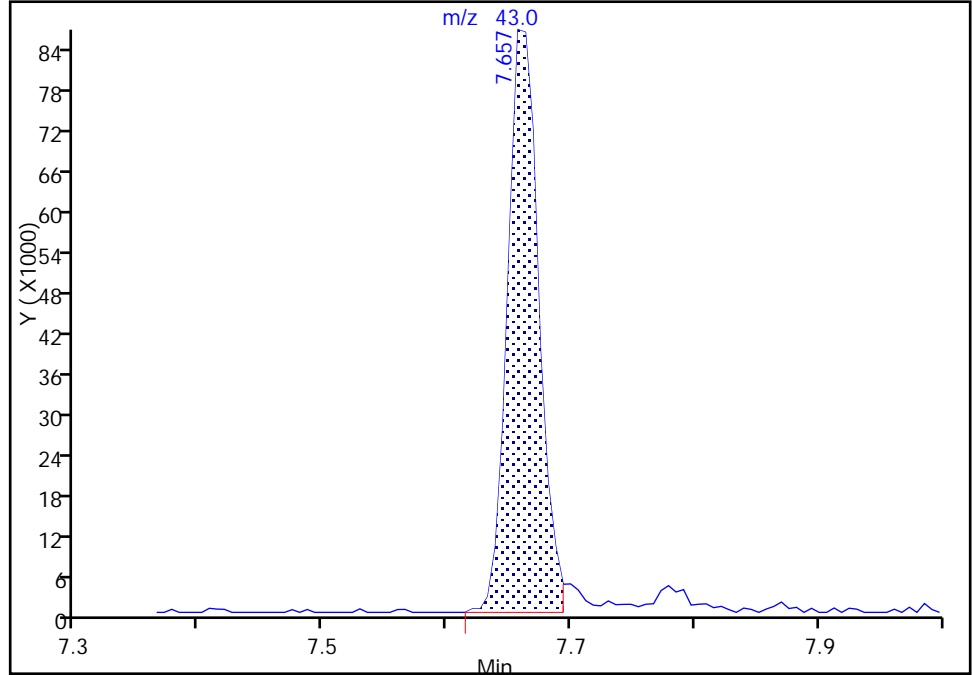
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

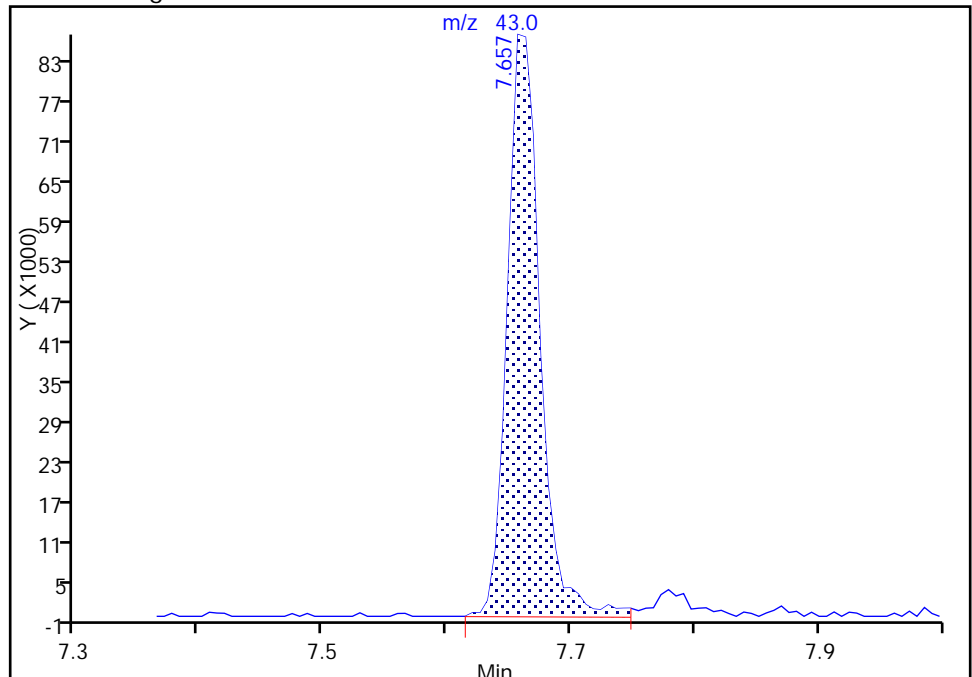
RT: 7.66
Area: 151835
Amount: 8.528909
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 158614
Amount: 8.845198
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:16:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

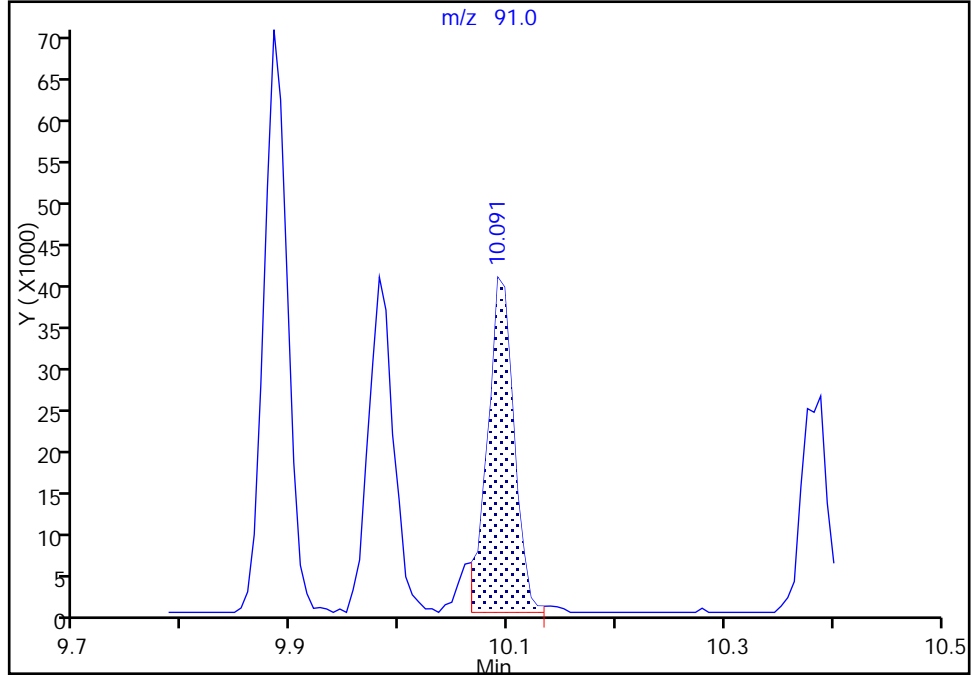
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

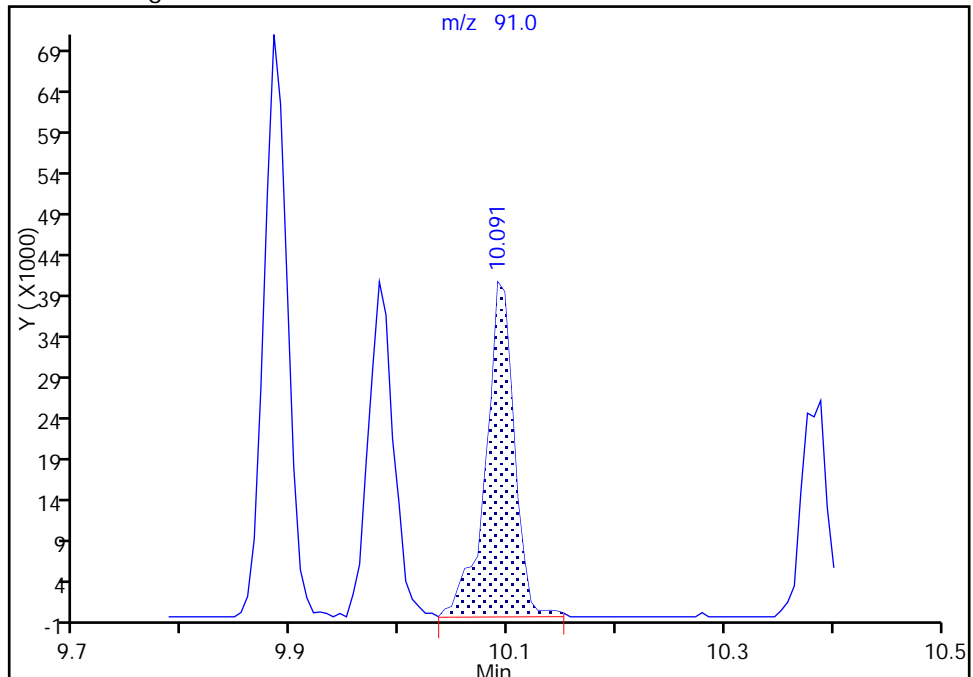
RT: 10.09
Area: 69506
Amount: 1.679398
Amount Units: ug/L

Processing Integration Results



RT: 10.09
Area: 74573
Amount: 1.788144
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:17:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

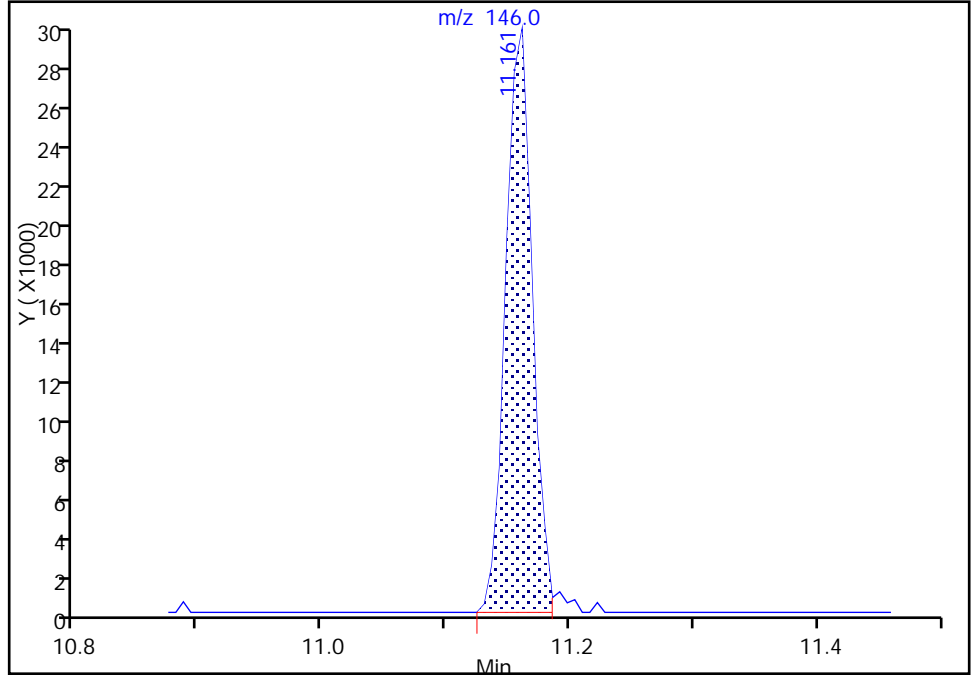
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Injection Date: 31-Jan-2018 16:26:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

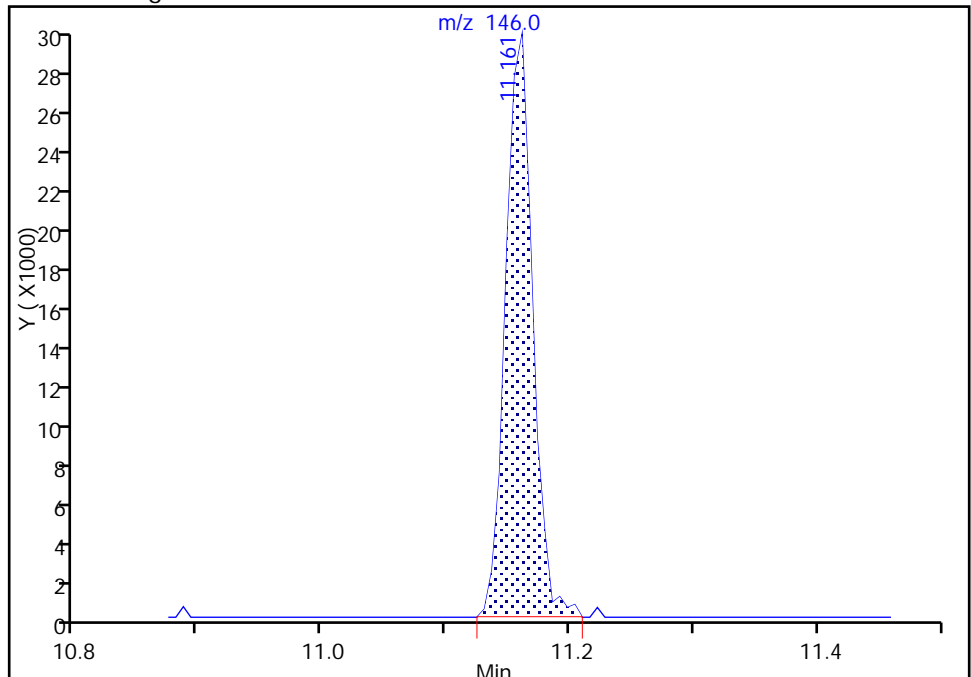
RT: 11.16
Area: 43493
Amount: 1.766770
Amount Units: ug/L

Processing Integration Results



RT: 11.16
Area: 44129
Amount: 1.789716
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:18:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 31-Jan-2018 16:52:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0068951-010
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:18 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 09:15:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	204047	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	772794	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	407819	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	94	247720	25.0	27.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	334782	25.0	26.6	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	96	948695	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	89	292716	25.0	24.3	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	97	57981	5.00	5.46	M
13 Chloromethane	50	1.501	1.501	0.000	99	138756	5.00	5.38	
14 Vinyl chloride	62	1.586	1.586	0.000	95	99212	5.00	5.50	
144 Butadiene	54	1.622	1.622	0.000	97	106393	5.00	5.34	M
15 Bromomethane	94	1.896	1.896	0.000	91	46377	5.00	5.33	
16 Chloroethane	64	1.987	1.987	0.000	98	54357	5.00	5.63	
18 Trichlorofluoromethane	101	2.194	2.194	0.000	88	84912	5.00	5.44	
17 Dichlorofluoromethane	67	2.194	2.194	0.000	96	103313	5.00	5.04	M
19 Ethyl ether	59	2.474	2.474	0.000	92	76653	5.00	5.08	M
20 Acrolein	56	2.626	2.626	0.000	96	91796	25.0	25.1	M
22 1,1-Dichloroethene	96	2.675	2.675	0.000	90	49441	5.00	5.35	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	0.000	64	45743	5.00	5.55	
23 Acetone	43	2.784	2.784	0.000	97	173686	25.0	25.0	
24 Iodomethane	142	2.833	2.833	0.000	97	87993	5.00	5.34	
25 Carbon disulfide	76	2.869	2.869	0.000	98	149004	5.00	5.14	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	87	164517	5.00	5.25	
28 Methyl acetate	43	3.082	3.082	0.000	100	184540	10.0	9.70	
30 Methylene Chloride	84	3.167	3.167	0.000	89	61129	5.00	4.99	M
31 2-Methyl-2-propanol	59	3.338	3.338	0.000	97	105544	50.0	52.1	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	93	186512	5.00	5.34	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	90	55786	5.00	5.26	
34 Acrylonitrile	53	3.429	3.429	0.000	98	468895	50.0	52.5	
35 Hexane	57	3.624	3.624	0.000	96	125271	5.00	5.46	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	123419	5.00	5.27	
39 Vinyl acetate	43	3.861	3.861	0.000	97	489257	10.0	10.5	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	81	65958	5.00	4.90	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	58936	5.00	4.86	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	299841	25.0	25.7	
47 Chlorobromomethane	128	4.585	4.585	0.000	85	29667	5.00	4.88	
49 Tetrahydrofuran	42	4.621	4.621	0.000	93	84381	10.0	10.0	M
50 Chloroform	83	4.664	4.664	0.000	96	96460	5.00	5.00	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	78021	5.00	5.03	
52 Cyclohexane	56	4.816	4.816	0.000	93	145448	5.00	5.35	
53 Carbon tetrachloride	117	4.944	4.944	0.000	78	66011	5.00	5.07	
54 1,1-Dichloropropene	75	4.950	4.950	0.000	84	72447	5.00	4.98	
56 Isobutyl alcohol	43	5.132	5.132	0.000	93	151932	125.0	130.0	
55 Benzene	78	5.139	5.139	0.000	93	224696	5.00	5.18	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	94	108049	5.00	5.18	
59 n-Heptane	43	5.351	5.351	0.000	95	142574	5.00	5.52	
60 Trichloroethene	95	5.747	5.747	0.000	90	56132	5.00	4.92	
62 Methylcyclohexane	83	5.893	5.893	0.000	93	89522	5.00	5.13	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	88	70088	5.00	5.22	
64 Dibromomethane	93	6.106	6.106	0.000	92	33553	5.00	4.86	
66 1,4-Dioxane	88	6.112	6.112	0.000	27	14143	100.0	109.5	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	69886	5.00	4.95	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	83	48716	5.00	4.88	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	84	83178	5.00	5.07	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	212102	25.0	25.5	
73 Toluene	92	6.976	6.976	0.000	96	131093	5.00	4.54	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	89	73276	5.00	4.74	
77 Ethyl methacrylate	69	7.304	7.304	0.000	86	72818	5.00	4.66	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	38582	5.00	4.62	
79 Tetrachloroethene	166	7.523	7.523	0.000	91	57374	5.00	4.66	
80 1,3-Dichloropropane	76	7.584	7.584	0.000	90	88951	5.00	5.20	
82 2-Hexanone	43	7.663	7.663	0.000	98	470153	25.0	26.1	M
83 Chlorodibromomethane	129	7.827	7.827	0.000	91	53442	5.00	4.87	
84 Ethylene Dibromide	107	7.925	7.925	0.000	99	52052	5.00	4.92	
85 Chlorobenzene	112	8.418	8.418	0.000	92	157204	5.00	4.91	
89 1,1,1,2-Tetrachloroethane	131	8.509	8.509	0.000	89	54926	5.00	5.22	
88 Ethylbenzene	91	8.521	8.521	0.000	98	250674	5.00	4.86	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	94516	5.00	4.52	
91 o-Xylene	106	9.069	9.069	0.000	97	101129	5.00	5.01	
92 Styrene	104	9.093	9.093	0.000	93	167055	5.00	4.87	
93 Bromoform	173	9.324	9.324	0.000	94	31593	5.00	4.50	M
95 Isopropylbenzene	105	9.458	9.458	0.000	96	262952	5.00	5.03	
97 Bromobenzene	156	9.786	9.786	0.000	92	61477	5.00	4.54	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	92	71551	5.00	5.10	
99 1,2,3-Trichloropropane	110	9.865	9.865	0.000	95	22687	5.00	4.99	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	63	37416	5.00	5.12	
100 N-Propylbenzene	91	9.884	9.884	0.000	98	291476	5.00	4.88	
102 2-Chlorotoluene	126	9.987	9.987	0.000	95	65560	5.00	5.08	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	210262	5.00	4.88	
105 4-Chlorotoluene	91	10.097	10.097	0.000	97	209716	5.00	5.05	
106 tert-Butylbenzene	134	10.383	10.383	0.000	95	50023	5.00	5.12	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	98	218911	5.00	4.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	260861	5.00	4.75	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	96	128738	5.00	4.95	
111 4-Isopropyltoluene	119	10.735	10.735	0.000	98	242476	5.00	4.95	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	96	133976	5.00	5.07	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	197941	5.00	4.86	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	96	122991	5.00	5.01	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	70	12050	5.00	5.29	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	72989	5.00	4.77	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	95	38244	5.00	5.18	
121 Naphthalene	128	12.786	12.786	0.000	97	191516	5.00	4.75	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	94	62158	5.00	4.75	
S 126 Xylenes, Total	1				0			9.52	
S 123 1,3-Dichloropropene, Total	1				0			9.81	
S 124 1,2-Dichloroethene, Total	1				0			10.1	
S 125 Total BTEX	1				0			24.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119

Amount Added: 5.00

Units: uL

GAS CORP mix_00262

Amount Added: 5.00

Units: uL

N_8260_Surr_00314

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00103

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D

Injection Date: 31-Jan-2018 16:52:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 3

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

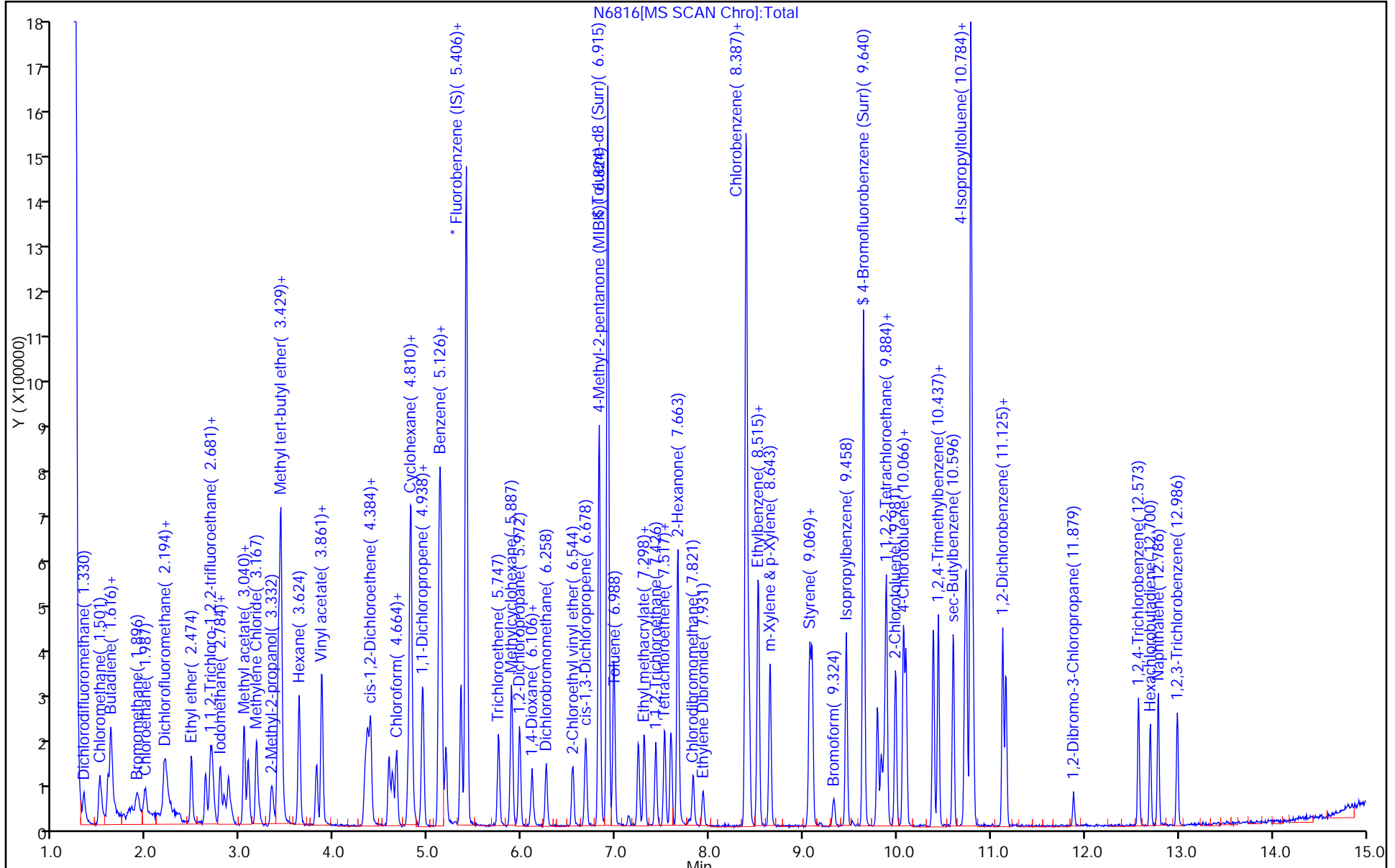
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

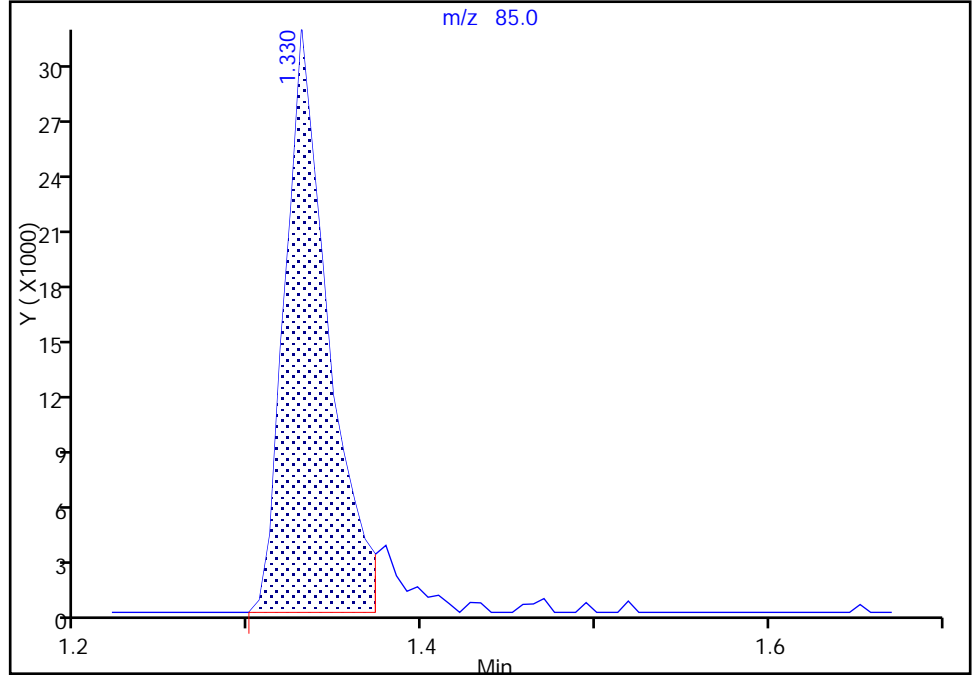
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

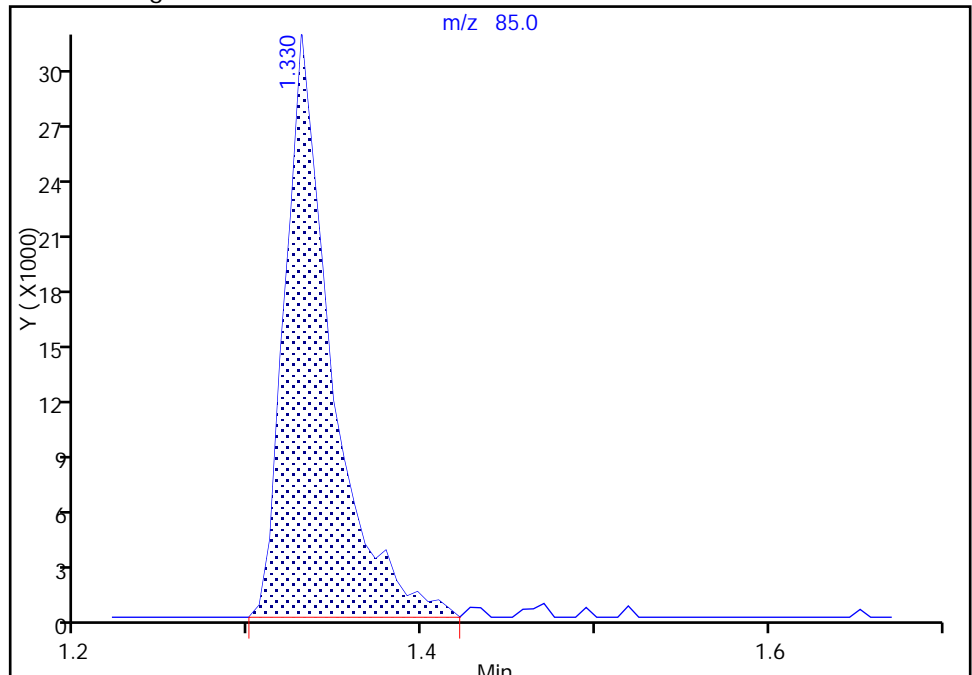
RT: 1.33
Area: 54250
Amount: 5.227850
Amount Units: ug/L

Processing Integration Results



RT: 1.33
Area: 57981
Amount: 5.457053
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:19:15
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

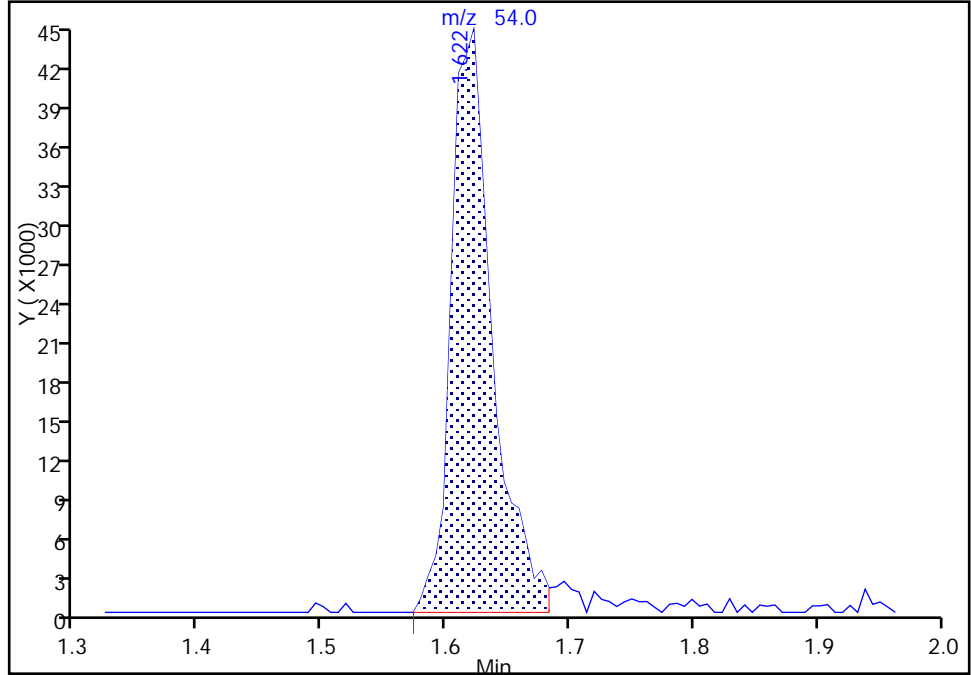
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

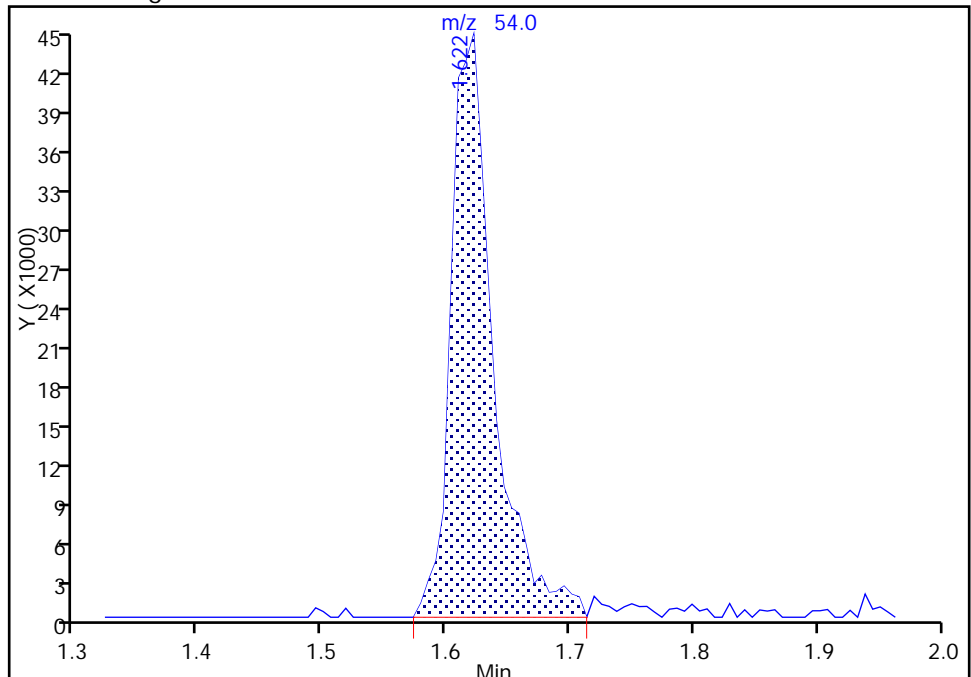
RT: 1.62
Area: 103606
Amount: 5.230158
Amount Units: ug/L

Processing Integration Results



RT: 1.62
Area: 106393
Amount: 5.341099
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:19:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

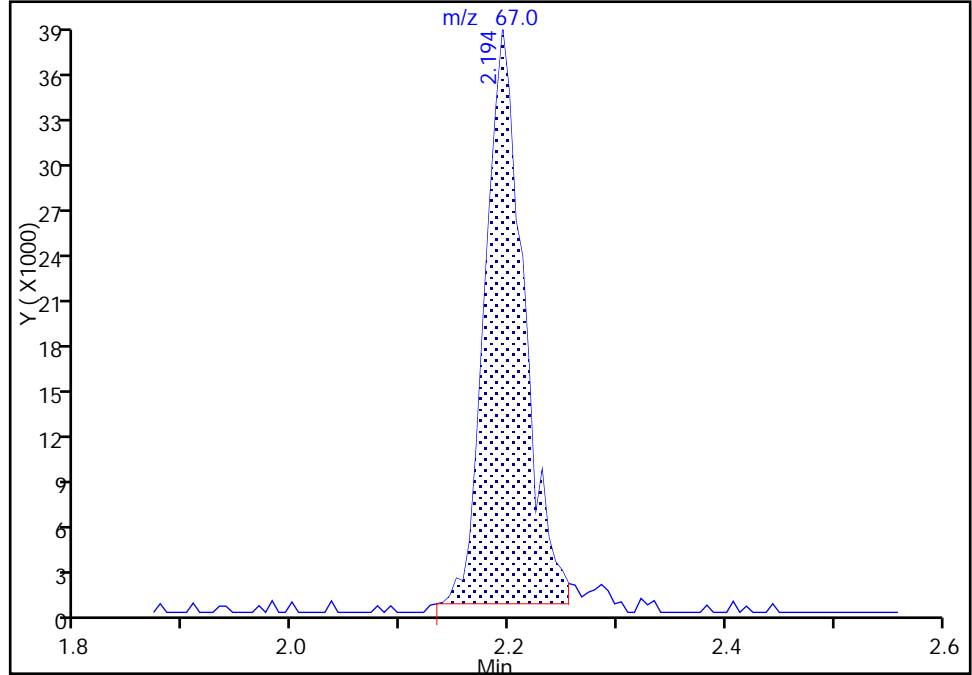
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

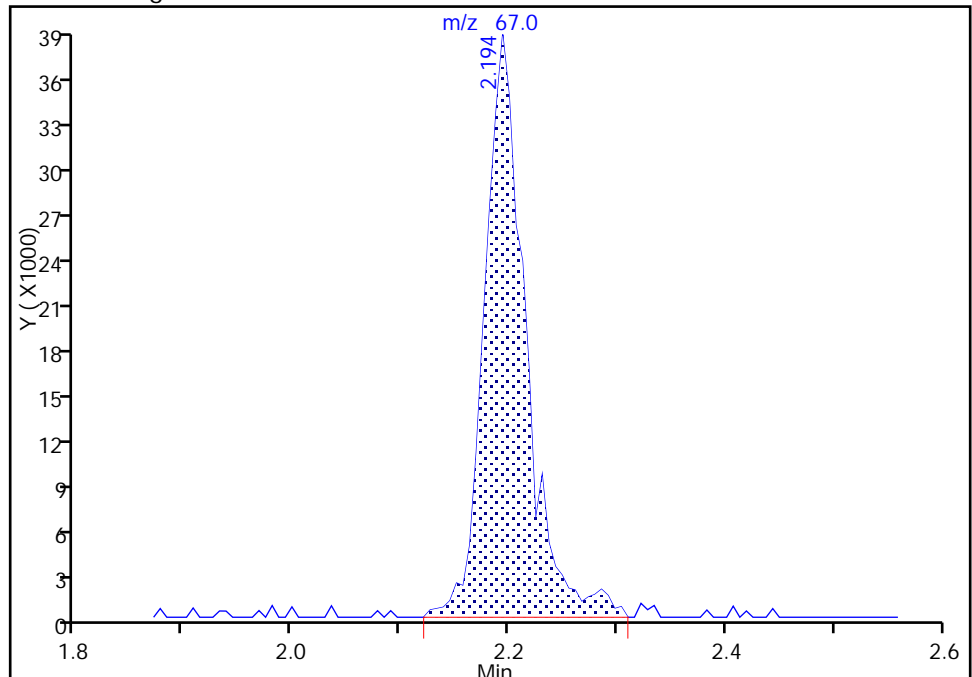
RT: 2.19
Area: 94963
Amount: 4.678104
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 103313
Amount: 5.037640
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:20:03
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

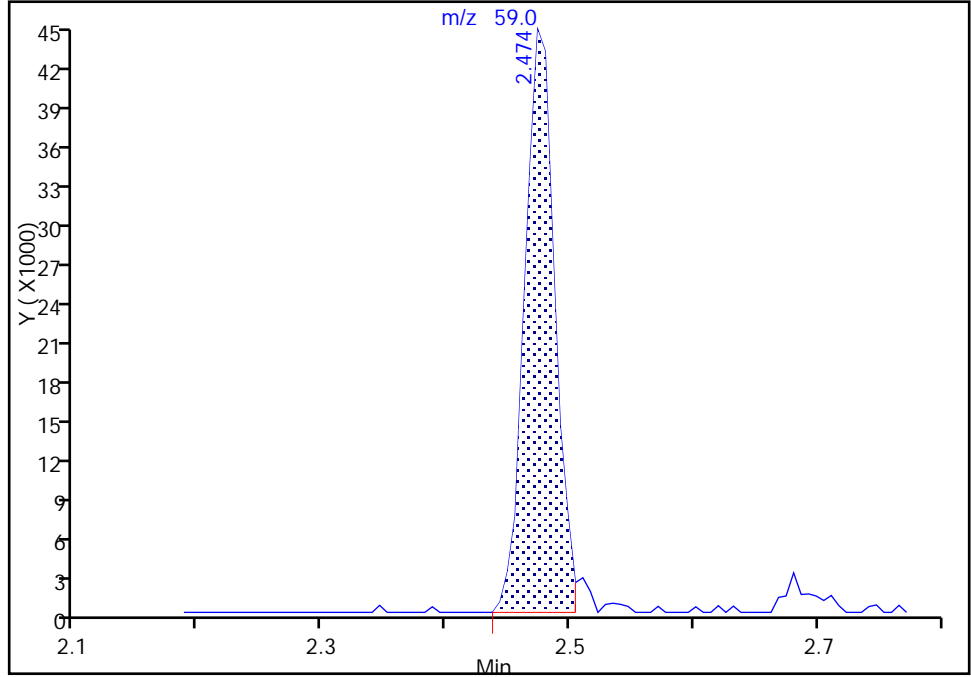
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

19 Ethyl ether, CAS: 60-29-7

Signal: 1

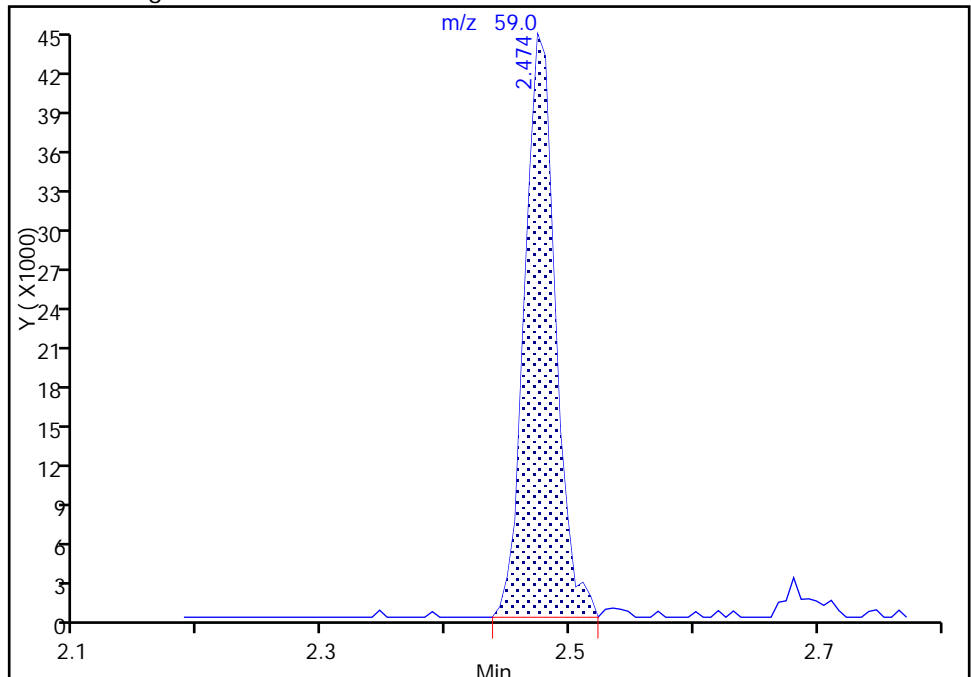
RT: 2.47
Area: 75108
Amount: 4.993084
Amount Units: ug/L

Processing Integration Results



RT: 2.47
Area: 76653
Amount: 5.082742
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:20:13
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

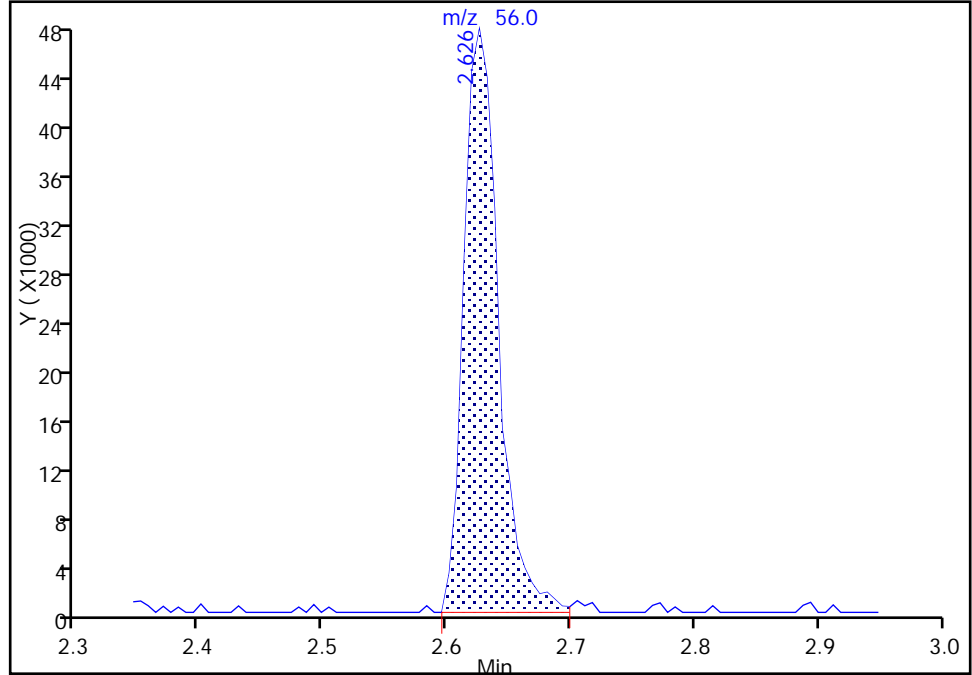
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

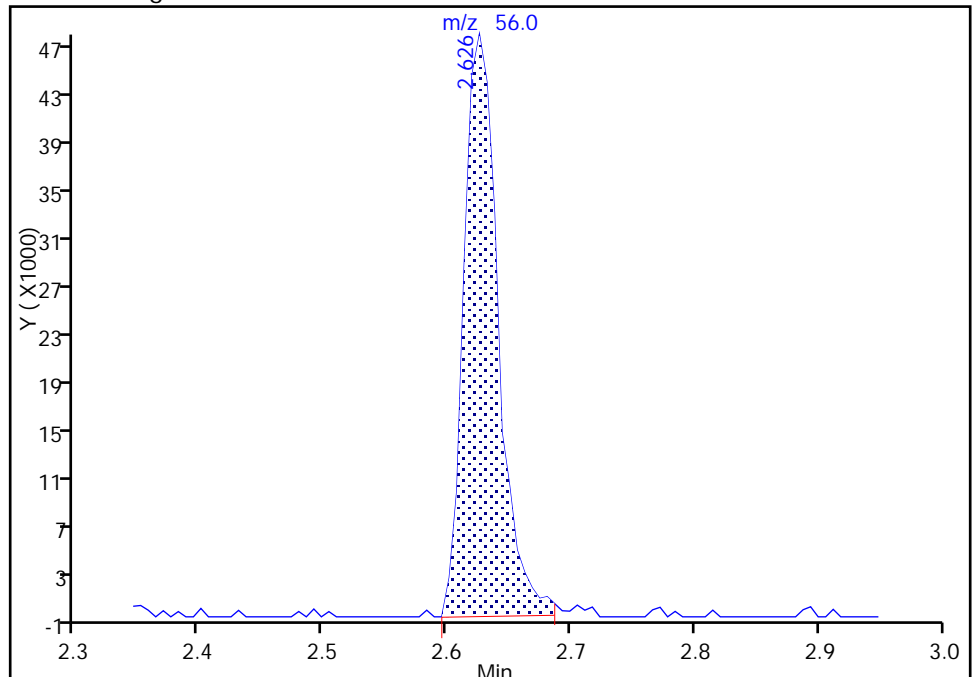
RT: 2.63
Area: 92413
Amount: 24.327834
Amount Units: ug/L

Processing Integration Results



RT: 2.63
Area: 91796
Amount: 25.136722
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:20:51
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

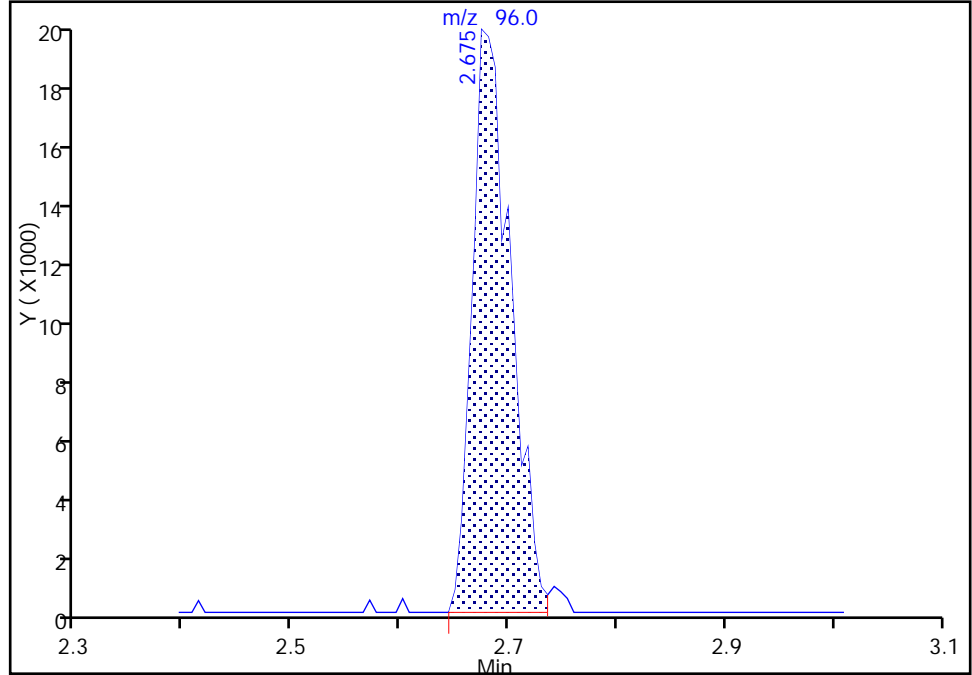
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

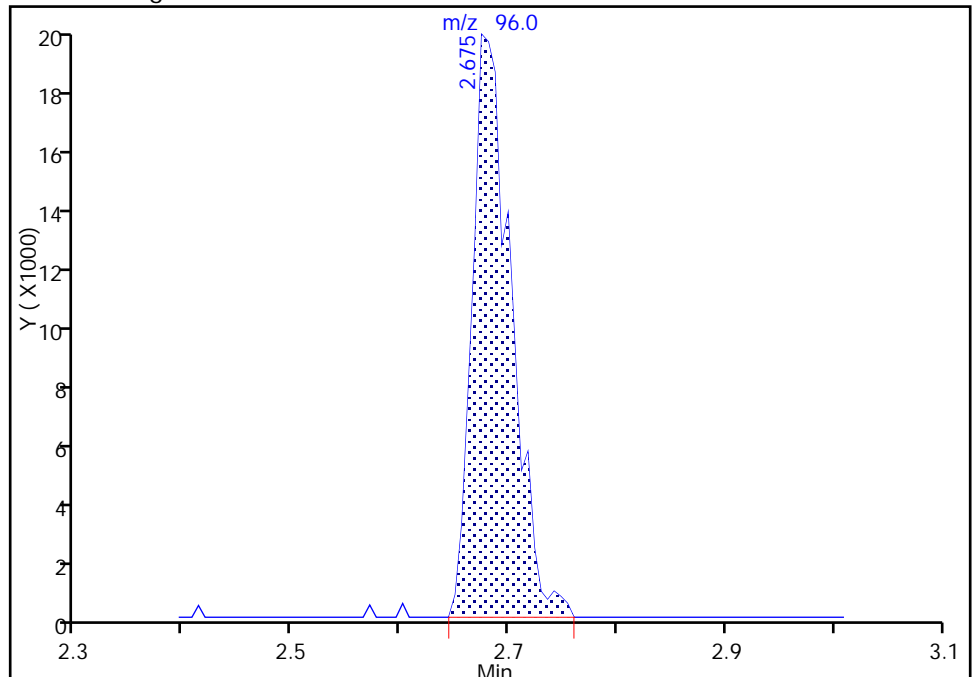
RT: 2.67
Area: 48685
Amount: 5.276891
Amount Units: ug/L

Processing Integration Results



RT: 2.67
Area: 49441
Amount: 5.347878
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:21:06
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

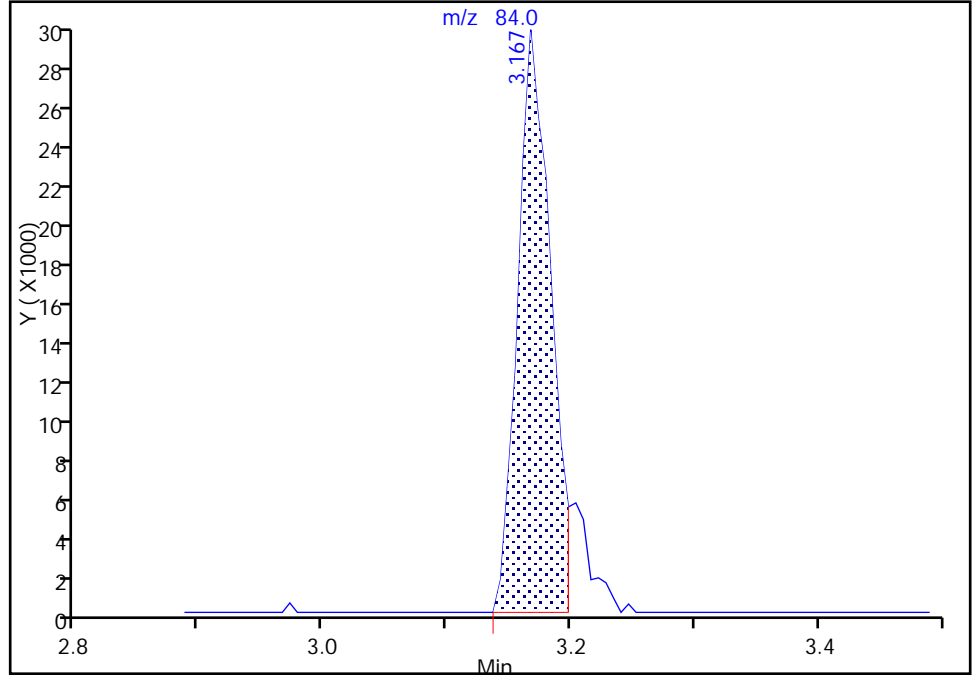
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

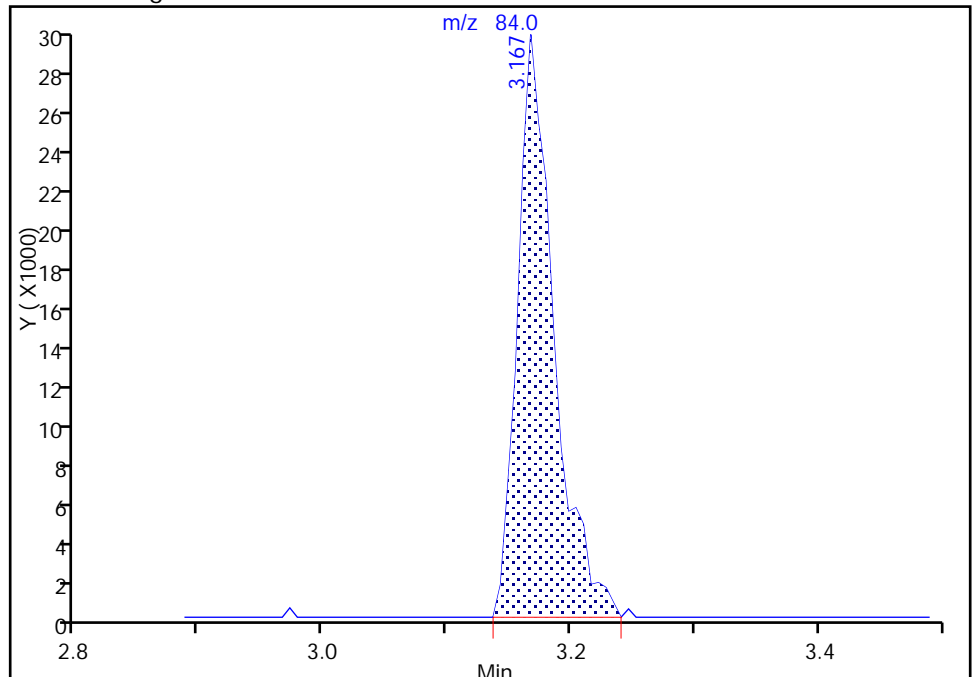
RT: 3.17
Area: 55250
Amount: 4.391648
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 61129
Amount: 4.986597
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:22:05
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

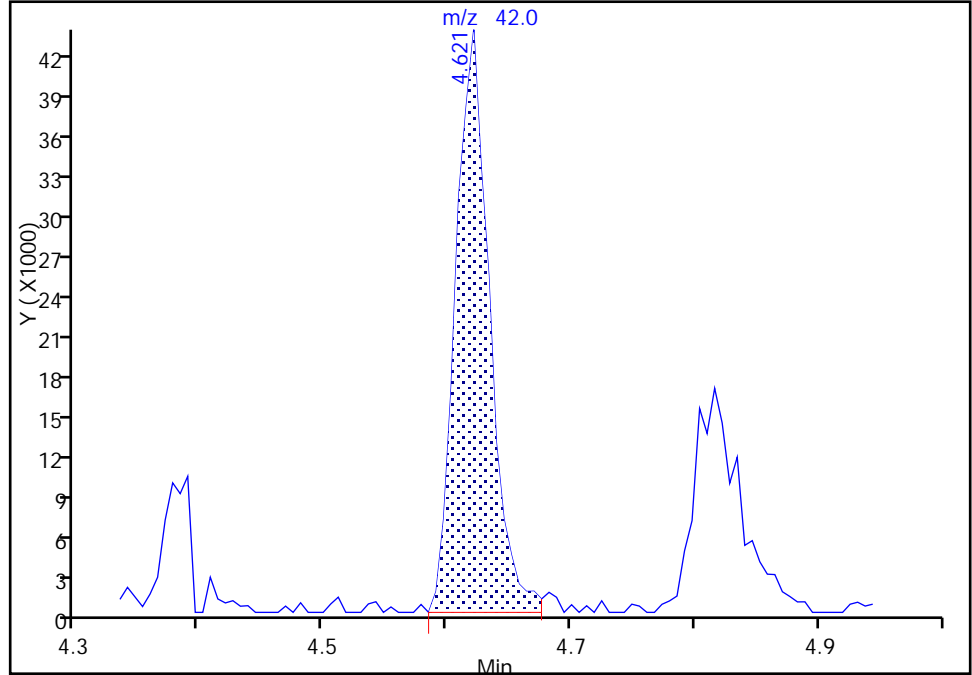
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

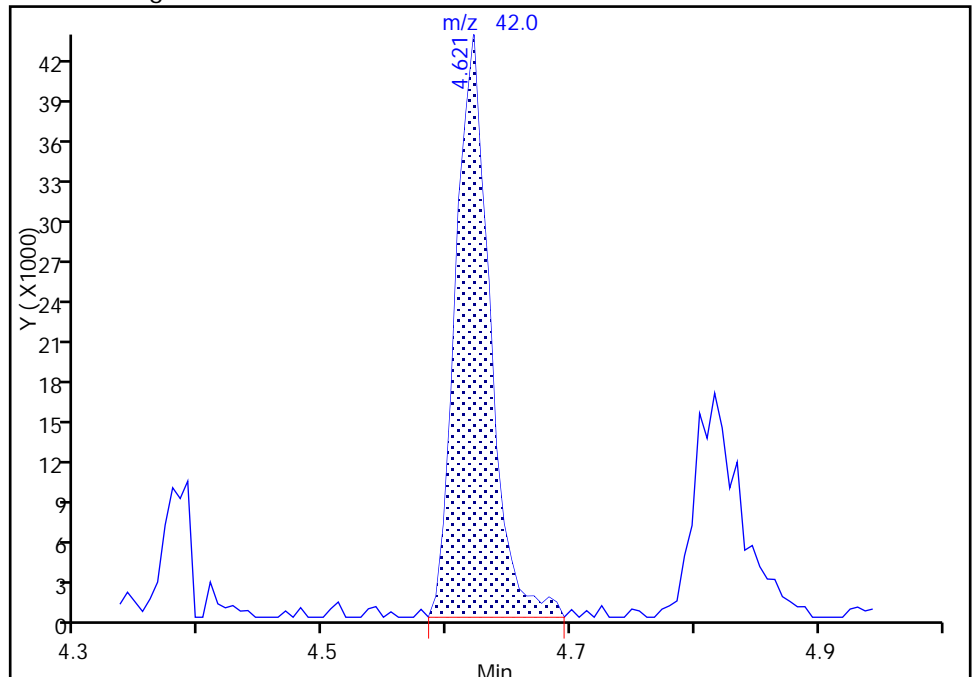
RT: 4.62
Area: 83413
Amount: 9.947726
Amount Units: ug/L

Processing Integration Results



RT: 4.62
Area: 84381
Amount: 10.048668
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:22:34
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

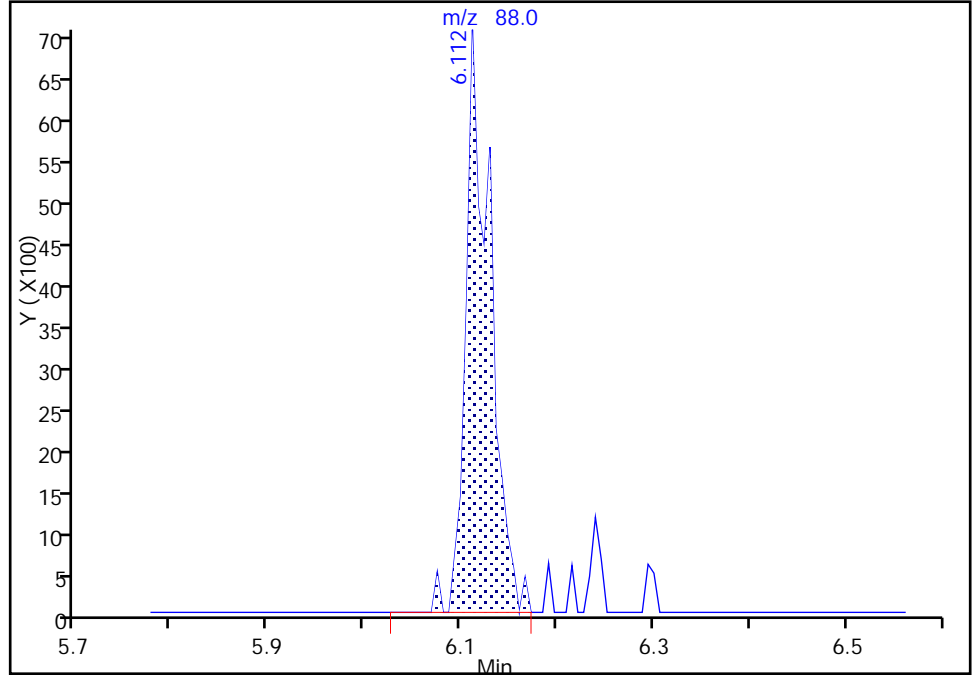
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

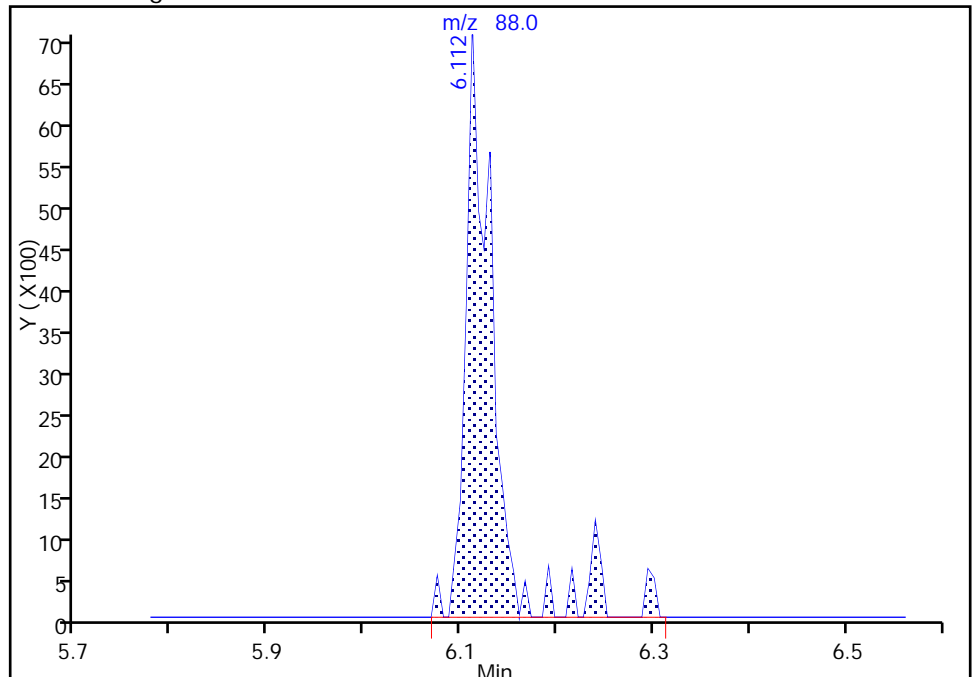
RT: 6.11
Area: 12514
Amount: 103.8967
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 14143
Amount: 109.5095
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:23:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

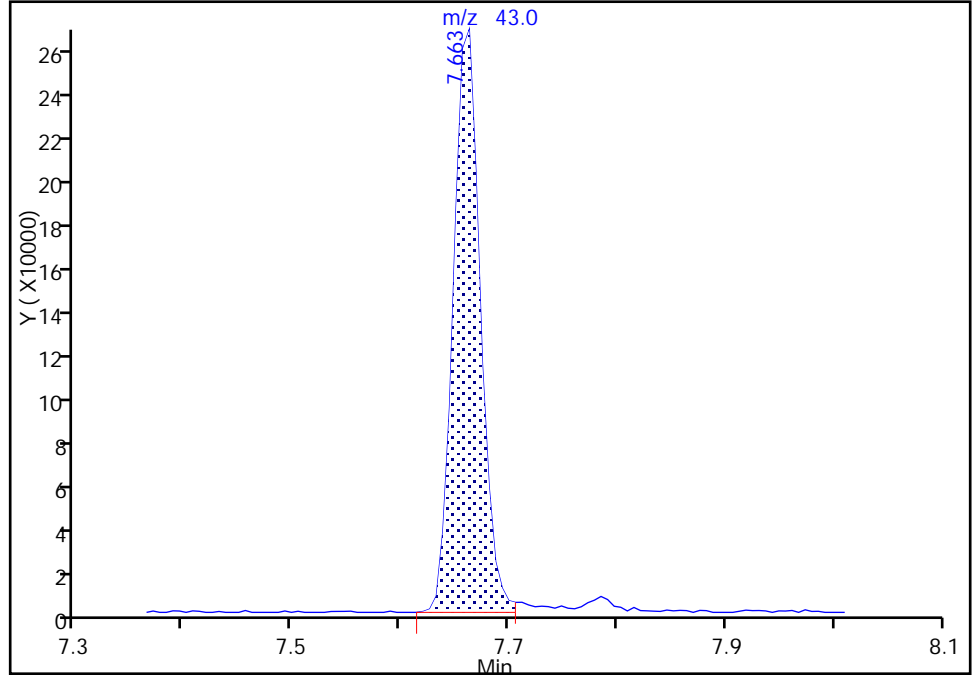
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

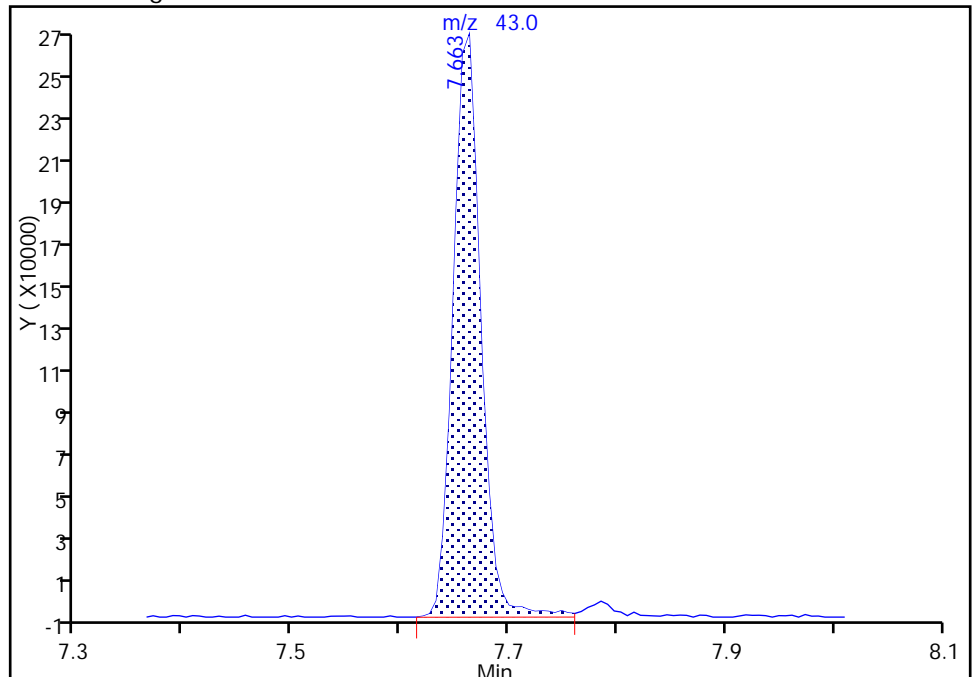
RT: 7.66
Area: 461085
Amount: 25.631869
Amount Units: ug/L

Processing Integration Results



RT: 7.66
Area: 470153
Amount: 26.070253
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:23:56
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

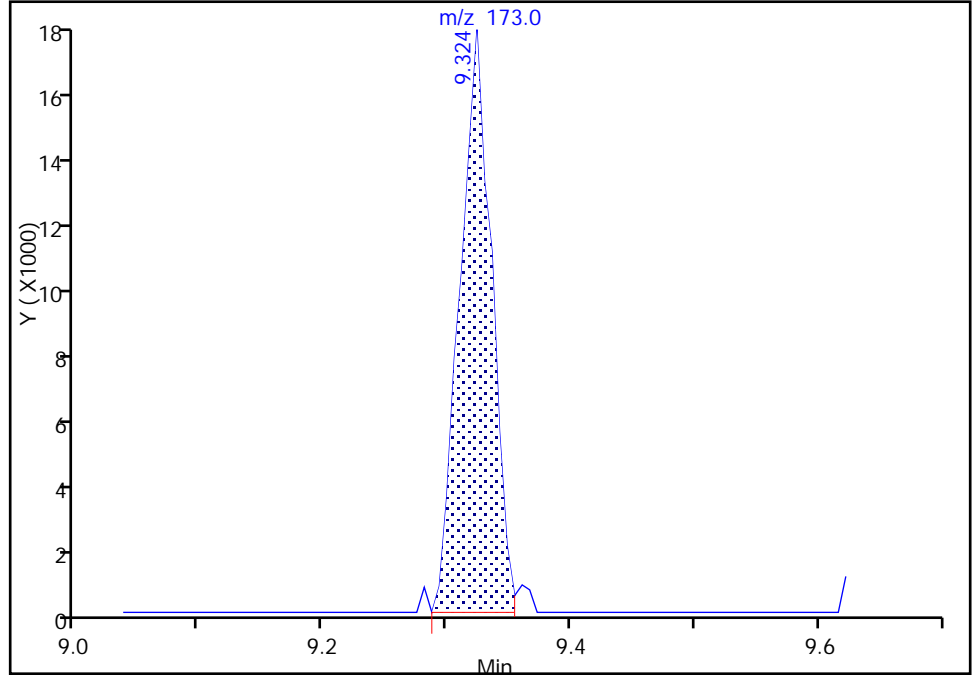
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6816.D
Injection Date: 31-Jan-2018 16:52:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

Signal: 1

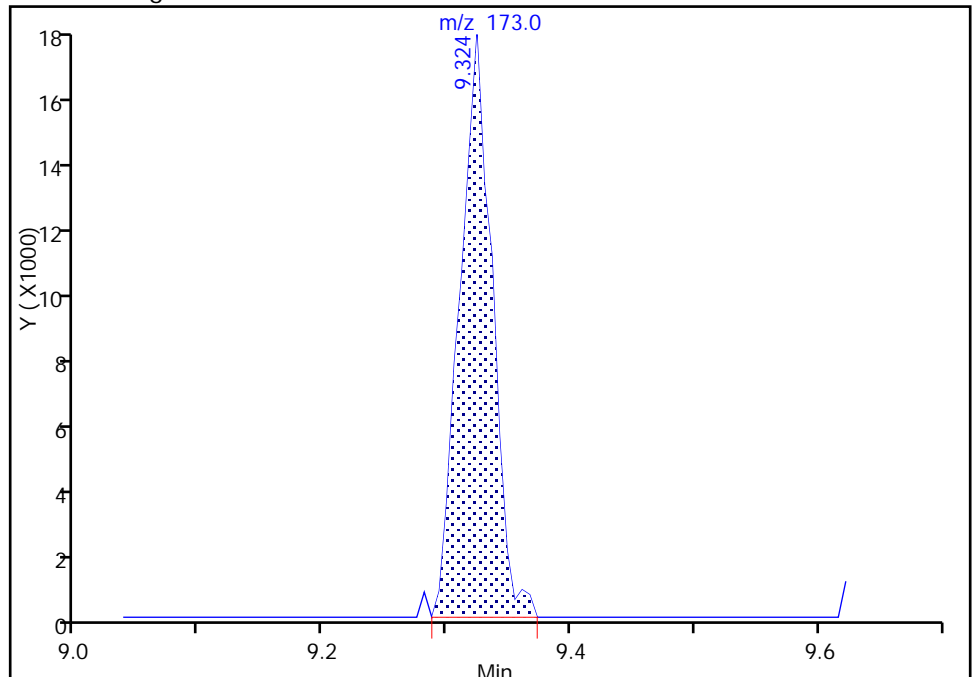
RT: 9.32
Area: 31050
Amount: 4.110986
Amount Units: ug/L

Processing Integration Results



RT: 9.32
Area: 31593
Amount: 4.500882
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:24:30
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6817.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 31-Jan-2018 17:20:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0068951-011
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:20 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 09:25:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	219842	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	92	763474	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	409430	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	94	238909	25.0	24.2	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	330193	25.0	24.3	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	96	947502	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	89	303655	25.0	25.5	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	97	107595	10.0	9.40	
13 Chloromethane	50	1.501	1.501	0.000	100	273953	10.0	9.86	
14 Vinyl chloride	62	1.586	1.586	0.000	96	186215	10.0	9.58	
144 Butadiene	54	1.616	1.622	-0.006	91	210517	10.0	9.81	M
15 Bromomethane	94	1.896	1.896	0.000	91	91750	10.0	9.79	
16 Chloroethane	64	1.981	1.987	-0.006	94	102319	10.0	9.84	
18 Trichlorofluoromethane	101	2.212	2.194	0.018	93	160759	10.0	9.55	M
17 Dichlorofluoromethane	67	2.194	2.194	0.000	96	221935	10.0	10.0	
19 Ethyl ether	59	2.474	2.474	0.000	95	162963	10.0	10.0	
20 Acrolein	56	2.626	2.626	0.000	98	201870	50.0	51.3	
22 1,1-Dichloroethene	96	2.681	2.675	0.006	91	91703	10.0	9.21	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.693	0.006	69	87528	10.0	9.85	
23 Acetone	43	2.784	2.784	0.000	97	374408	50.0	50.0	
24 Iodomethane	142	2.827	2.833	-0.006	99	173593	10.0	9.77	
25 Carbon disulfide	76	2.869	2.869	0.000	98	316837	10.0	10.1	
27 3-Chloro-1-propene	41	3.034	3.040	-0.006	86	343086	10.0	10.2	
28 Methyl acetate	43	3.082	3.082	0.000	99	412662	20.0	20.1	
30 Methylene Chloride	84	3.167	3.167	0.000	90	128966	10.0	10.2	
31 2-Methyl-2-propanol	59	3.338	3.338	0.000	97	225027	100.0	103.0	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	90	114461	10.0	10.0	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	96	392478	10.0	10.4	
34 Acrylonitrile	53	3.429	3.429	0.000	98	991075	100.0	102.9	M
35 Hexane	57	3.624	3.624	0.000	96	238509	10.0	9.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	97	260289	10.0	10.3	
39 Vinyl acetate	43	3.867	3.861	0.006	96	1034177	20.0	20.5	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	84	143414	10.0	9.89	
43 cis-1,2-Dichloroethene	96	4.354	4.360	-0.006	89	131901	10.0	10.1	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	638528	50.0	50.9	
47 Chlorobromomethane	128	4.585	4.585	0.000	85	67371	10.0	10.3	
49 Tetrahydrofuran	42	4.615	4.621	-0.006	96	173368	20.0	19.2	
50 Chloroform	83	4.664	4.664	0.000	97	204758	10.0	9.86	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	95	167133	10.0	10.0	
52 Cyclohexane	56	4.816	4.816	0.000	93	281321	10.0	9.60	
53 Carbon tetrachloride	117	4.938	4.944	-0.006	95	134874	10.0	9.62	
54 1,1-Dichloropropene	75	4.944	4.950	-0.006	82	155186	10.0	9.91	
56 Isobutyl alcohol	43	5.132	5.132	0.000	95	323301	250.0	256.8	
55 Benzene	78	5.139	5.139	0.000	94	457468	10.0	9.78	
57 1,2-Dichloroethane	62	5.187	5.193	-0.006	95	226183	10.0	10.1	
59 n-Heptane	43	5.351	5.351	0.000	95	273709	10.0	9.84	
60 Trichloroethene	95	5.753	5.747	0.006	94	122193	10.0	9.94	
62 Methylcyclohexane	83	5.887	5.893	-0.006	93	175636	10.0	9.34	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	87	148629	10.0	10.3	
64 Dibromomethane	93	6.106	6.106	0.000	91	74960	10.0	10.1	
66 1,4-Dioxane	88	6.118	6.112	0.006	46	27858	200.0	218.3	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	94	154243	10.0	10.1	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	86	109386	10.0	10.2	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	83	175085	10.0	9.91	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	97	455782	50.0	55.5	
73 Toluene	92	6.982	6.976	0.006	97	300215	10.0	10.5	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	89	170047	10.0	11.1	
77 Ethyl methacrylate	69	7.304	7.304	0.000	91	169730	10.0	11.0	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	93	86626	10.0	10.5	
79 Tetrachloroethene	166	7.517	7.523	-0.006	95	127663	10.0	10.5	
80 1,3-Dichloropropane	76	7.590	7.584	0.006	89	184678	10.0	10.9	
82 2-Hexanone	43	7.657	7.663	-0.006	98	989414	50.0	55.5	
83 Chlorodibromomethane	129	7.827	7.827	0.000	89	118435	10.0	10.9	
84 Ethylene Dibromide	107	7.931	7.925	0.006	95	116704	10.0	11.2	
85 Chlorobenzene	112	8.424	8.418	0.006	93	339368	10.0	10.7	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.509	0.006	89	118492	10.0	11.4	
88 Ethylbenzene	91	8.521	8.521	0.000	98	540953	10.0	10.6	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	222833	10.0	10.8	
91 o-Xylene	106	9.069	9.069	0.000	97	222306	10.0	11.1	
92 Styrene	104	9.093	9.093	0.000	94	367429	10.0	10.8	
93 Bromoform	173	9.318	9.324	-0.006	97	74059	10.0	10.7	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	552824	10.0	10.5	
97 Bromobenzene	156	9.792	9.786	0.006	87	146583	10.0	10.8	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	94	155676	10.0	11.0	
99 1,2,3-Trichloropropane	110	9.865	9.865	0.000	93	46820	10.0	10.3	
101 trans-1,4-Dichloro-2-buten	53	9.884	9.878	0.006	70	74080	10.0	10.1	
100 N-Propylbenzene	91	9.884	9.884	0.000	98	627693	10.0	10.5	
102 2-Chlorotoluene	126	9.981	9.987	-0.006	96	135124	10.0	10.4	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	454872	10.0	10.5	
105 4-Chlorotoluene	91	10.091	10.097	-0.006	98	442416	10.0	10.6	
106 tert-Butylbenzene	134	10.383	10.383	0.000	94	101100	10.0	10.3	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	470537	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	95	580034	10.0	10.5	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	97	272506	10.0	10.4	
111 4-Isopropyltoluene	119	10.742	10.735	0.007	98	542101	10.0	11.0	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	276263	10.0	10.4	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	434824	10.0	10.6	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	96	266279	10.0	10.8	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	75	25084	10.0	11.0	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	164311	10.0	10.7	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	96	79036	10.0	10.7	
121 Naphthalene	128	12.786	12.786	0.000	97	434432	10.0	10.7	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	95	142740	10.0	10.9	
S 124 1,2-Dichloroethene, Total	1				0			20.1	
S 125 Total BTEX	1				0			52.8	
S 126 Xylenes, Total	1				0			21.9	
S 123 1,3-Dichloropropene, Total	1				0			21.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119

Amount Added: 5.00

Units: uL

GAS CORP mix_00262

Amount Added: 5.00

Units: uL

N_8260_Surr_00314

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00103

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6817.D

Injection Date: 31-Jan-2018 17:20:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 4

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

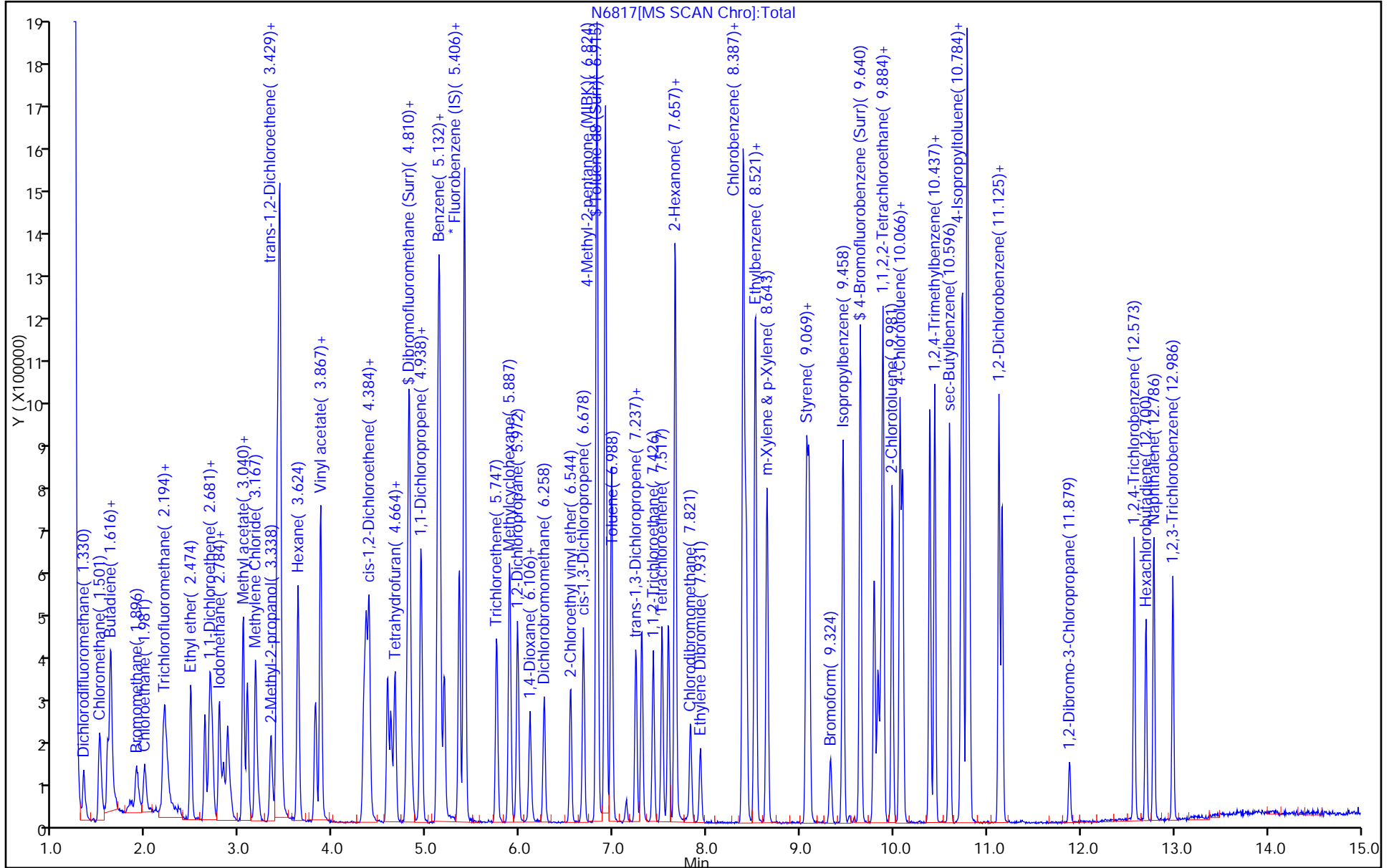
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

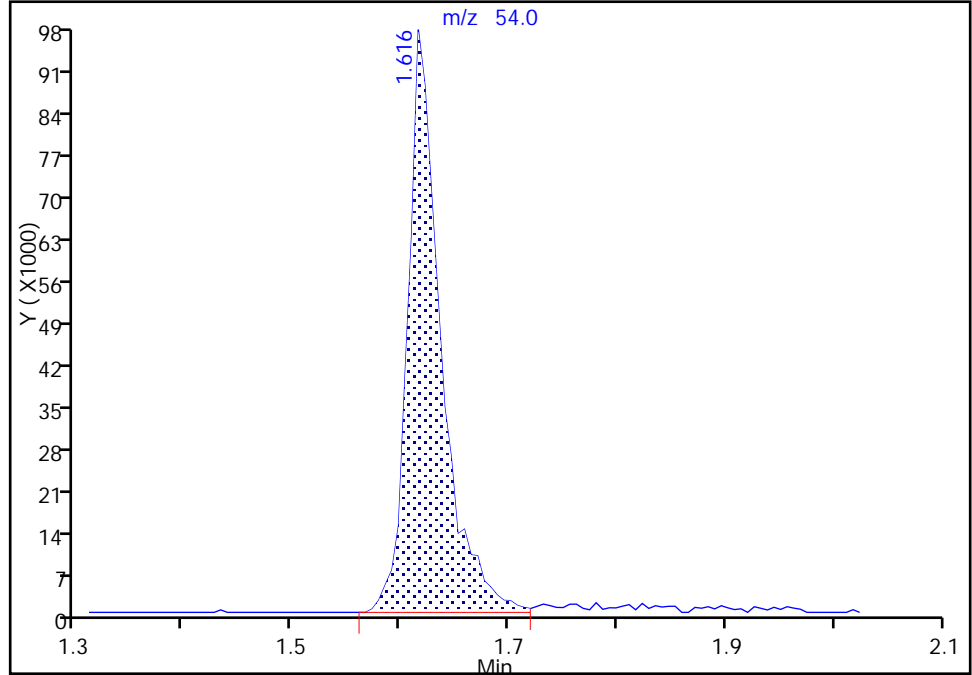
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6817.D
Injection Date: 31-Jan-2018 17:20:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

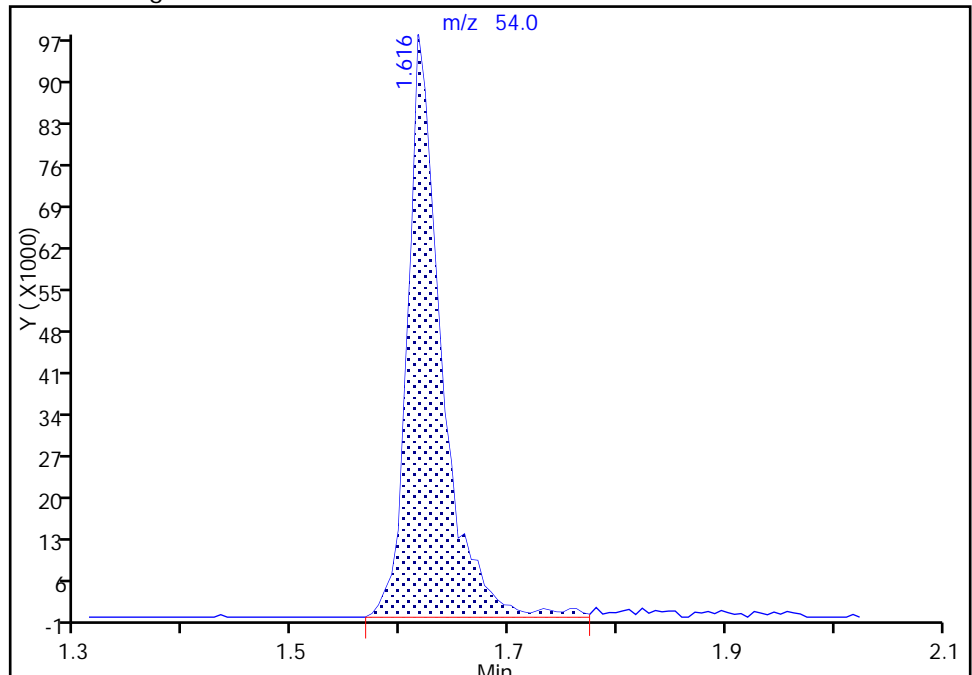
RT: 1.62
Area: 207012
Amount: 9.665406
Amount Units: ug/L

Processing Integration Results



RT: 1.62
Area: 210517
Amount: 9.808990
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:26:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

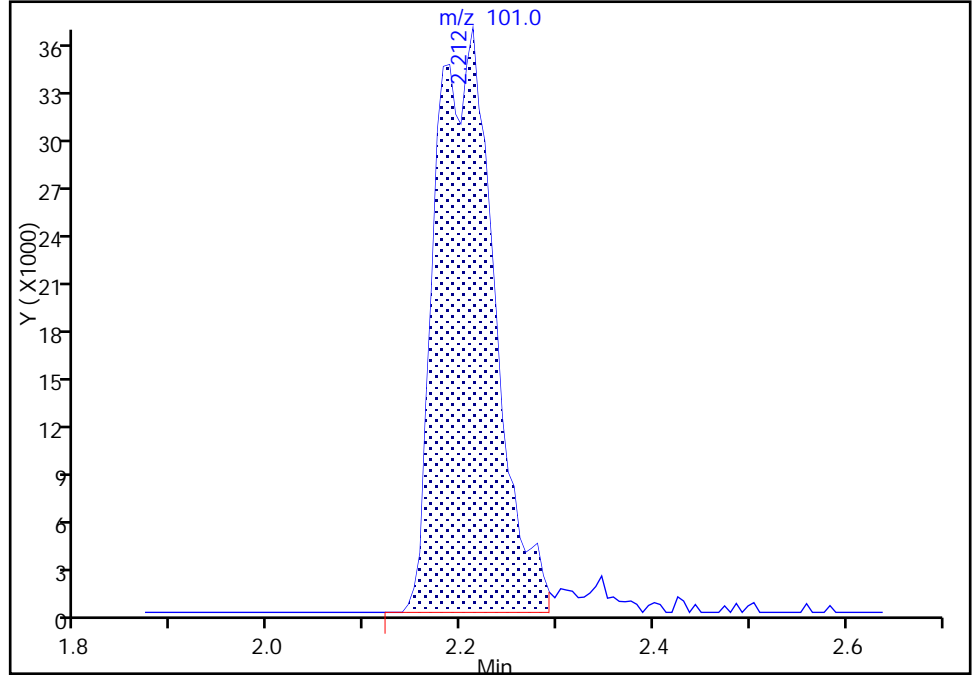
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6817.D
Injection Date: 31-Jan-2018 17:20:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

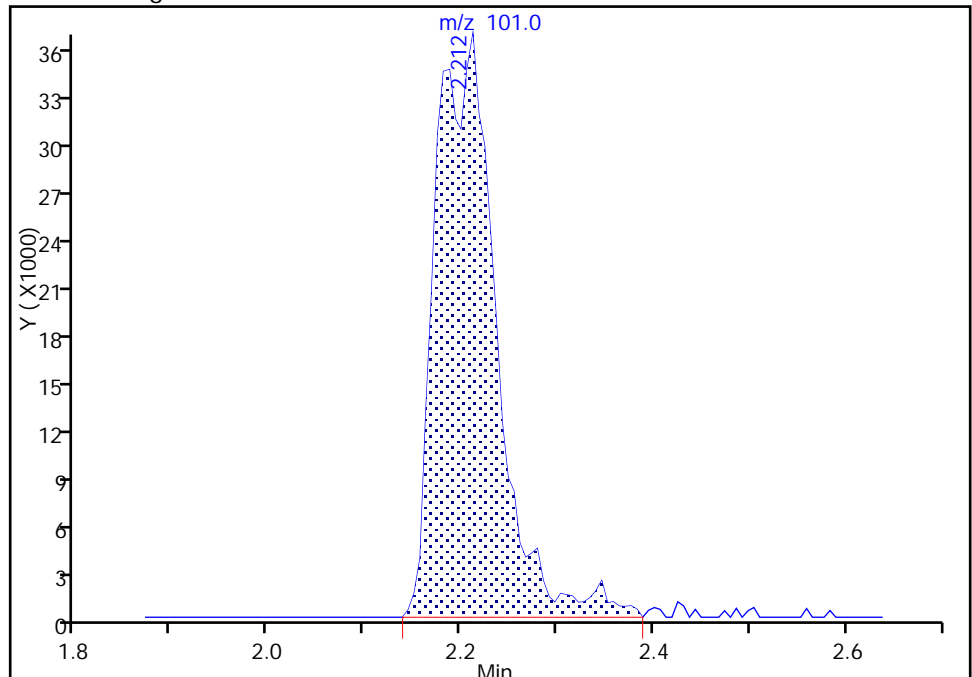
RT: 2.21
Area: 154721
Amount: 9.234941
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 160759
Amount: 9.552303
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:26:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

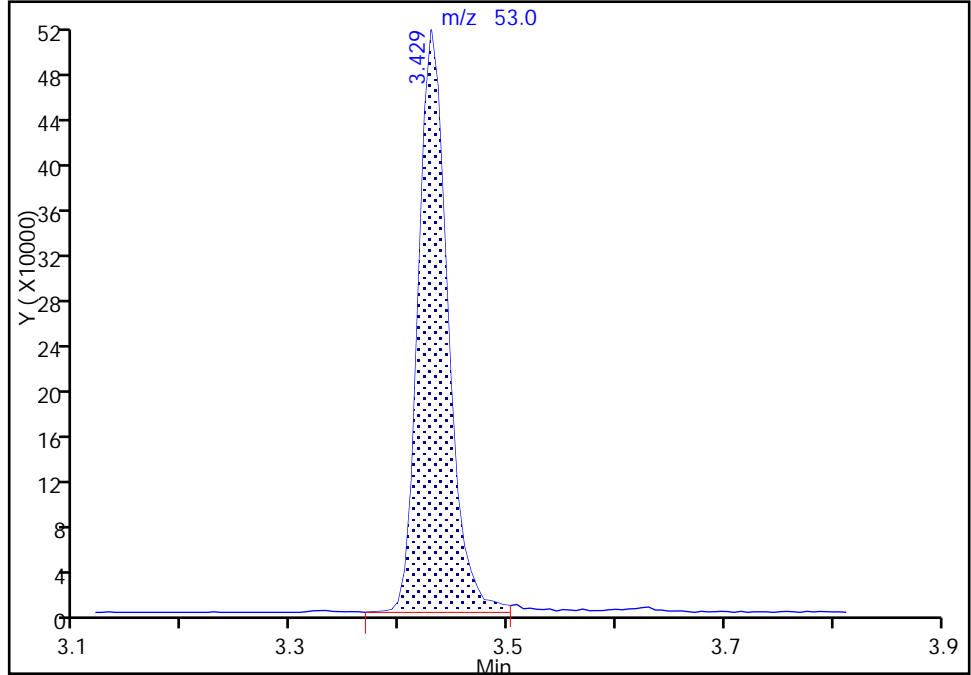
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6817.D
Injection Date: 31-Jan-2018 17:20:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

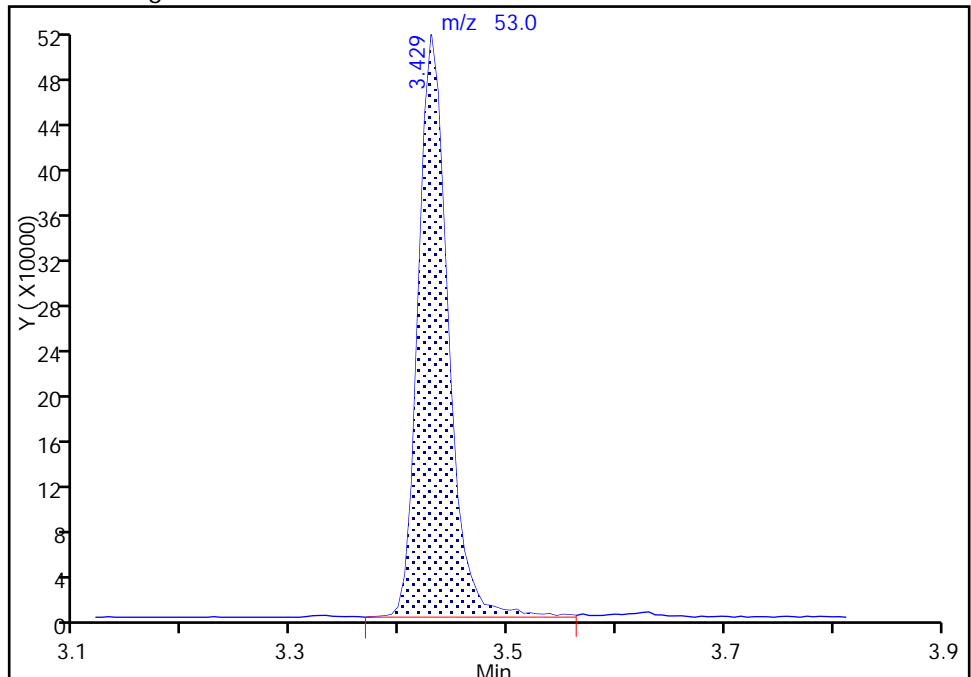
RT: 3.43
Area: 981667
Amount: 102.0855
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 991075
Amount: 102.9380
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:27:34
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

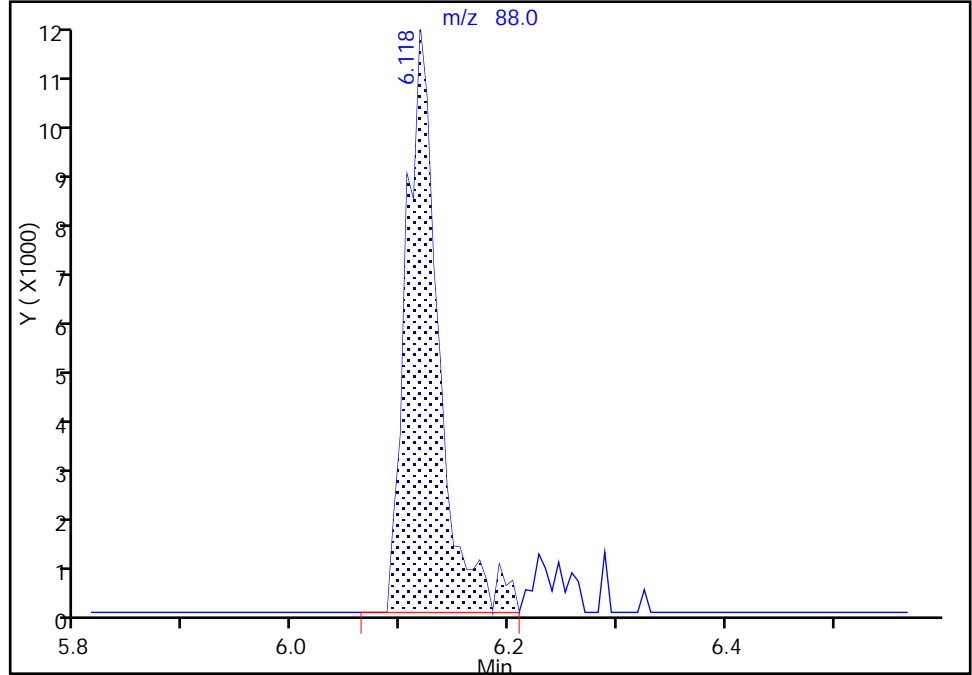
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Injection Date: 31-Jan-2018 17:20:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

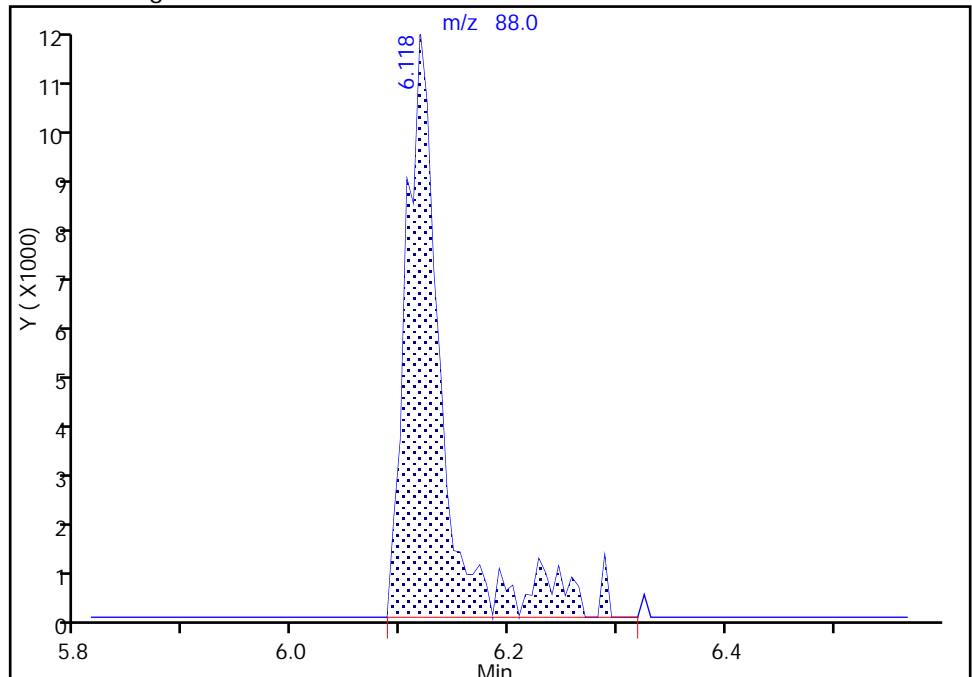
RT: 6.12
Area: 25097
Amount: 206.9122
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 27858
Amount: 218.3382
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:28:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6818.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 31-Jan-2018 17:46:30 ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0068951-012
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:22 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibiliam

Date: 01-Feb-2018 08:13:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	211199	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	90	794111	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	411009	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	94	244158	25.0	25.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	327714	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	975086	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	90	302324	25.0	24.4	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	98	264625	25.0	24.1	
13 Chloromethane	50	1.501	1.501	0.000	99	665584	25.0	24.9	
14 Vinyl chloride	62	1.586	1.586	0.000	97	453733	25.0	24.3	
144 Butadiene	54	1.616	1.616	0.000	95	510446	25.0	24.8	
15 Bromomethane	94	1.902	1.902	0.000	91	226517	25.0	25.2	
16 Chloroethane	64	1.981	1.981	0.000	95	243316	25.0	24.4	
17 Dichlorofluoromethane	67	2.194	2.194	0.000	95	501590	25.0	23.6	
18 Trichlorofluoromethane	101	2.188	2.188	0.000	69	411073	25.0	25.4	
19 Ethyl ether	59	2.474	2.474	0.000	95	409345	25.0	26.2	
20 Acrolein	56	2.626	2.626	0.000	99	490221	125.0	129.7	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	91	239239	25.0	25.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.000	92	230174	25.0	27.0	
23 Acetone	43	2.784	2.784	0.000	98	886173	125.0	123.1	
24 Iodomethane	142	2.827	2.827	0.000	99	439303	25.0	25.7	
25 Carbon disulfide	76	2.869	2.869	0.000	98	790724	25.0	26.4	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	87	866593	25.0	26.7	
28 Methyl acetate	43	3.082	3.082	0.000	99	982107	50.0	49.9	
30 Methylene Chloride	84	3.167	3.167	0.000	89	303525	25.0	25.8	
31 2-Methyl-2-propanol	59	3.338	3.338	0.000	97	566349	250.0	269.9	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	94	938815	25.0	26.0	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	91	292050	25.0	26.6	
34 Acrylonitrile	53	3.429	3.429	0.000	98	2394737	250.0	258.9	M
35 Hexane	57	3.624	3.624	0.000	96	642456	25.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.812	3.812	0.000	98	640940	25.0	26.4	
39 Vinyl acetate	43	3.867	3.867	0.000	96	2607011	50.0	53.9	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	85	366270	25.0	26.3	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	327886	25.0	26.1	
44 2-Butanone (MEK)	43	4.384	4.384	0.000	96	1565741	125.0	129.8	
47 Chlorobromomethane	128	4.579	4.579	0.000	85	169108	25.0	26.9	
49 Tetrahydrofuran	42	4.615	4.615	0.000	92	413852	50.0	47.6	M
50 Chloroform	83	4.664	4.664	0.000	95	508706	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	425143	25.0	26.5	
52 Cyclohexane	56	4.816	4.816	0.000	93	776670	25.0	27.6	
53 Carbon tetrachloride	117	4.938	4.938	0.000	96	370390	25.0	27.5	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	85	380399	25.0	25.3	
56 Isobutyl alcohol	43	5.132	5.132	0.000	96	817866	625.0	676.2	
55 Benzene	78	5.139	5.139	0.000	94	1188652	25.0	26.5	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	547432	25.0	25.4	
59 n-Heptane	43	5.345	5.345	0.000	96	738362	25.0	27.6	
60 Trichloroethene	95	5.747	5.747	0.000	93	316450	25.0	26.8	
62 Methylcyclohexane	83	5.887	5.887	0.000	93	488257	25.0	27.0	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	91	376635	25.0	27.1	
64 Dibromomethane	93	6.100	6.100	0.000	93	182632	25.0	25.5	
66 1,4-Dioxane	88	6.118	6.118	0.000	89	71068	500.0	535.5	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	94	390833	25.0	26.8	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	85	283200	25.0	27.4	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	85	457430	25.0	26.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	1109137	125.0	129.9	
73 Toluene	92	6.982	6.982	0.000	97	761046	25.0	25.6	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	90	424295	25.0	26.7	
77 Ethyl methacrylate	69	7.304	7.304	0.000	89	402303	25.0	25.0	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	96	226910	25.0	26.4	
79 Tetrachloroethene	166	7.523	7.523	0.000	95	324845	25.0	25.7	
80 1,3-Dichloropropane	76	7.584	7.584	0.000	89	466511	25.0	26.6	
82 2-Hexanone	43	7.657	7.657	0.000	98	2364259	125.0	127.6	
83 Chlorodibromomethane	129	7.828	7.828	0.000	89	301564	25.0	26.8	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	280105	25.0	25.7	
85 Chlorobenzene	112	8.418	8.418	0.000	92	846085	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	92	301538	25.0	27.9	
88 Ethylbenzene	91	8.521	8.521	0.000	97	1380680	25.0	26.1	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	557123	25.0	25.9	
91 o-Xylene	106	9.069	9.069	0.000	97	556530	25.0	26.8	
92 Styrene	104	9.093	9.093	0.000	93	926713	25.0	26.3	
93 Bromoform	173	9.324	9.324	0.000	96	190944	25.0	26.5	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1401359	25.0	26.6	
97 Bromobenzene	156	9.793	9.793	0.000	90	354369	25.0	25.9	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	379298	25.0	26.8	
99 1,2,3-Trichloropropane	110	9.859	9.859	0.000	93	115624	25.0	25.2	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	76	200893	25.0	27.3	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	1611398	25.0	26.8	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	334551	25.0	25.7	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	1180353	25.0	27.2	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	1110014	25.0	26.5	
106 tert-Butylbenzene	134	10.383	10.383	0.000	94	269047	25.0	27.3	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	1203676	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	95	1468447	25.0	26.5	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	97	710448	25.0	27.1	
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	1354651	25.0	27.4	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	93	712715	25.0	26.8	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	1126669	25.0	27.5	
116 1,2-Dichlorobenzene	146	11.155	11.155	0.000	97	668900	25.0	27.0	
117 1,2-Dibromo-3-Chloropropan	75	11.885	11.885	0.000	80	61036	25.0	26.6	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	429723	25.0	27.8	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	94	191602	25.0	25.7	
121 Naphthalene	128	12.786	12.786	0.000	97	1126771	25.0	27.8	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	364462	25.0	27.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119	Amount Added: 12.50	Units: uL	
GAS CORP mix_00262	Amount Added: 12.50	Units: uL	
N_8260_Surr_00314	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00103	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6818.D

Injection Date: 31-Jan-2018 17:46:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: ICIS 5

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

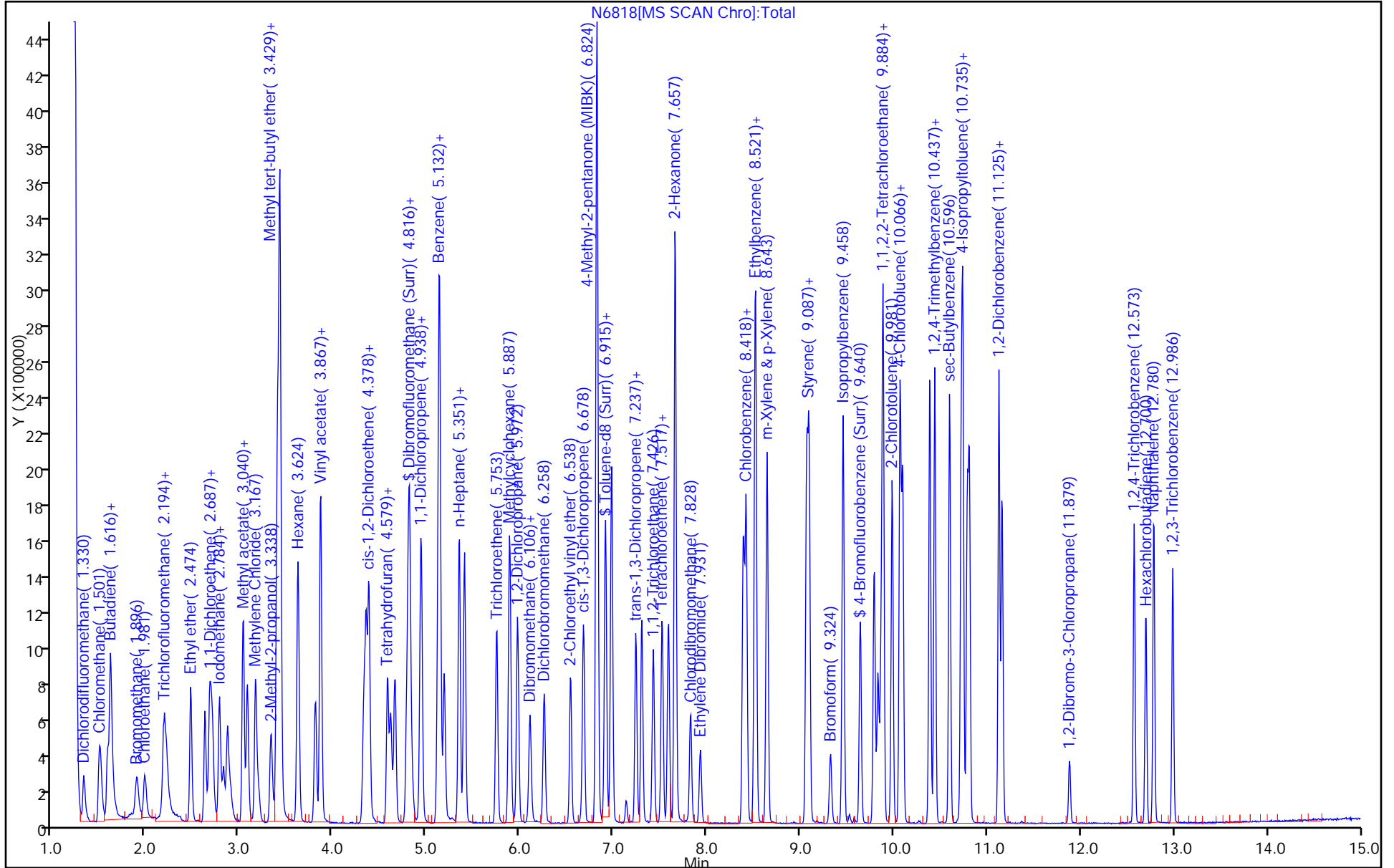
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

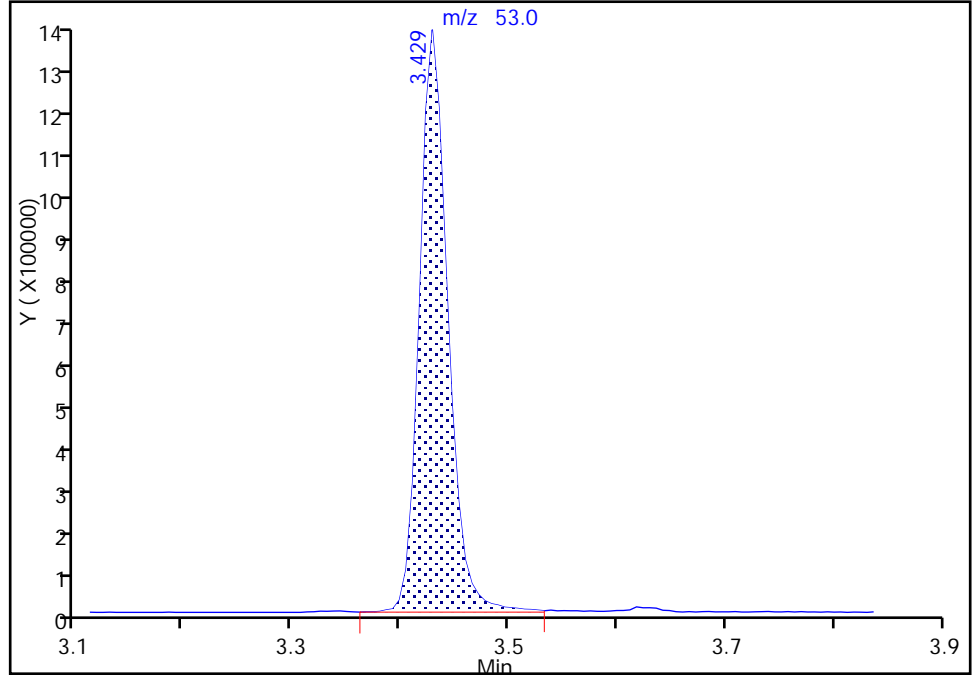
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Injection Date: 31-Jan-2018 17:46:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

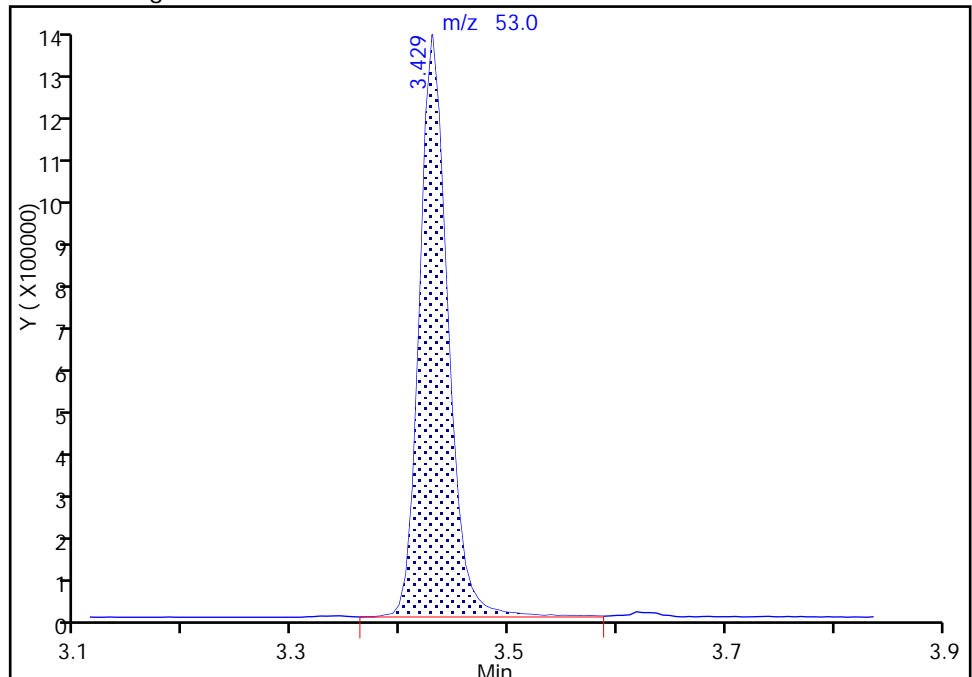
RT: 3.43
Area: 2385845
Amount: 257.7531
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 2394737
Amount: 258.9081
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:43:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

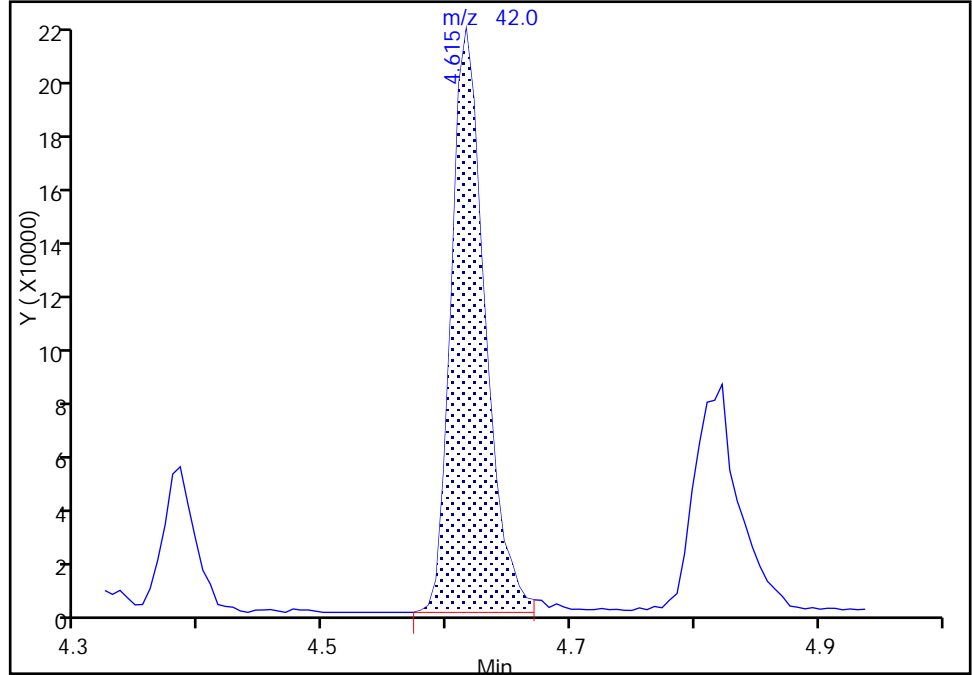
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Injection Date: 31-Jan-2018 17:46:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

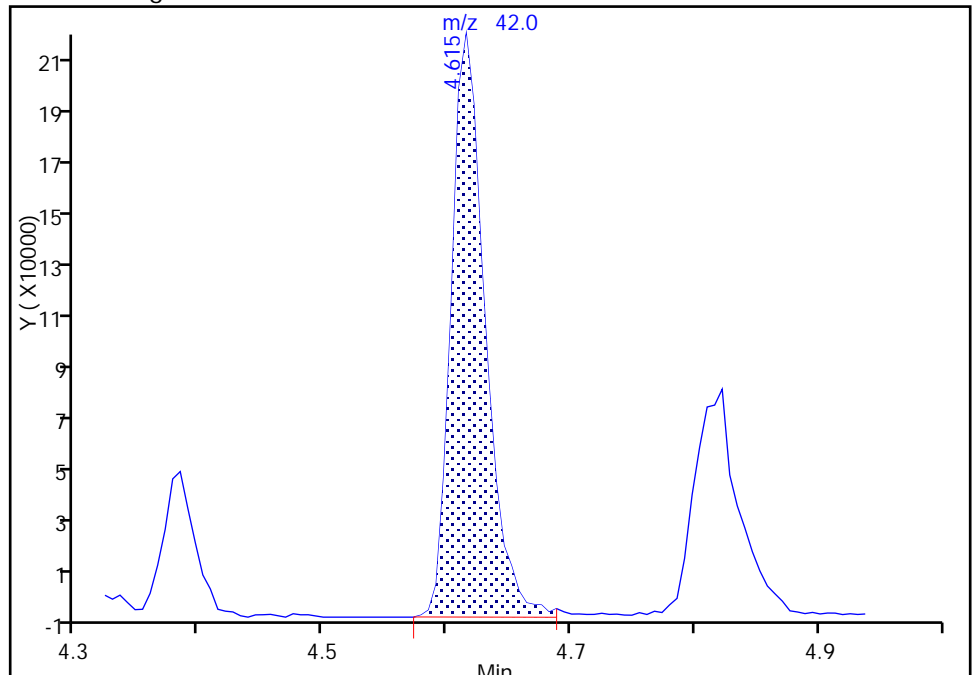
RT: 4.62
Area: 410531
Amount: 47.346737
Amount Units: ug/L

Processing Integration Results



RT: 4.62
Area: 413852
Amount: 47.615380
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:44:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

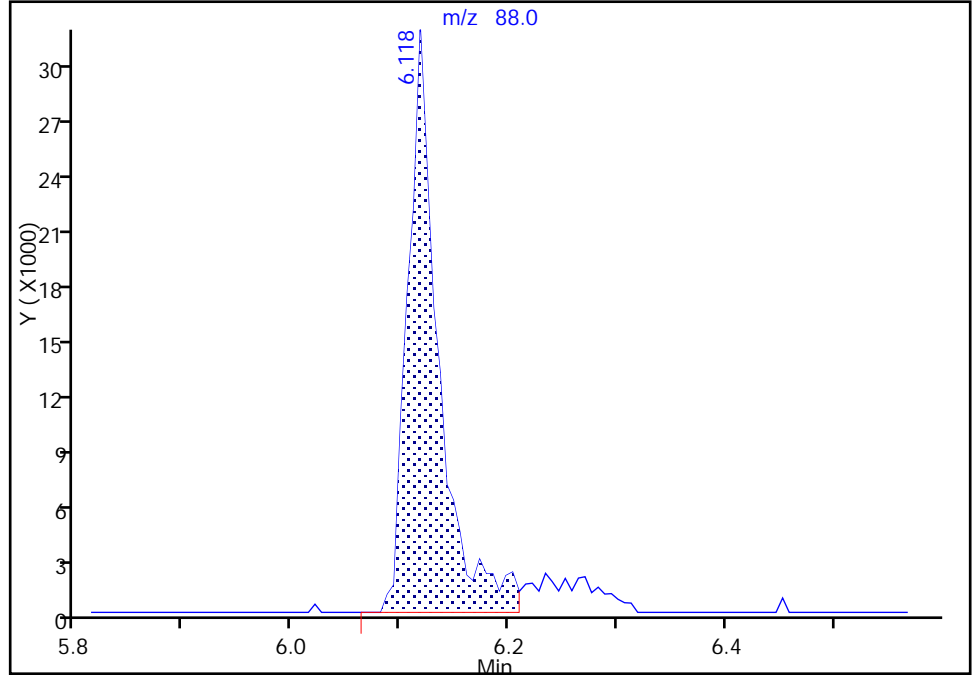
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Injection Date: 31-Jan-2018 17:46:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

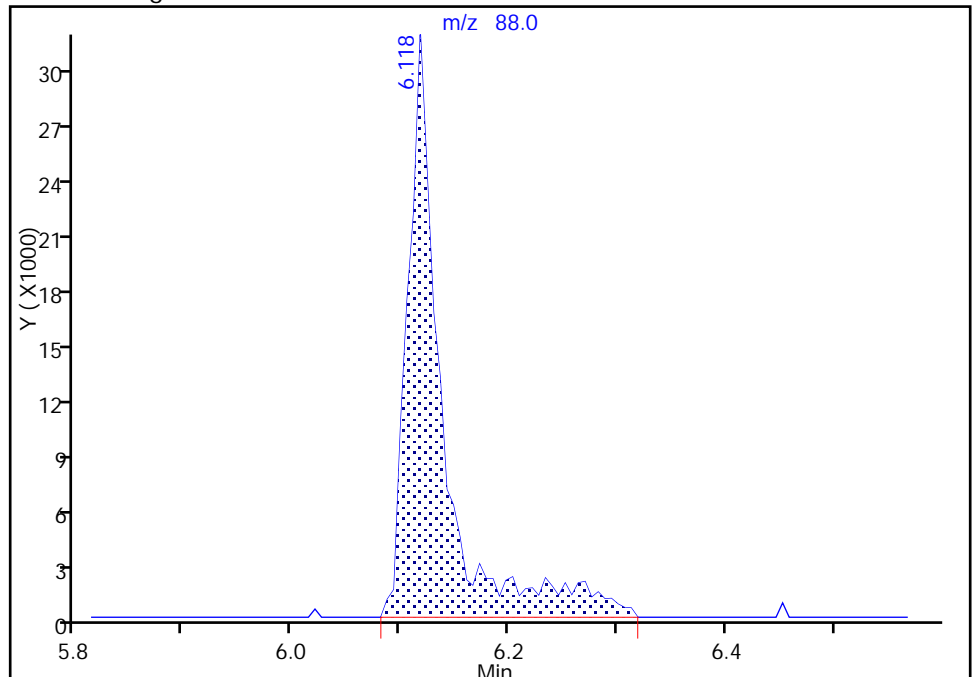
RT: 6.12
Area: 62922
Amount: 504.8890
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 71068
Amount: 535.5093
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 09:47:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6819.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-Jan-2018 18:13:30 ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0068951-013
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:24 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 10:31:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	221535	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.387	0.006	91	806681	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	94	408209	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	92	238649	25.0	24.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.114	0.006	0	329648	25.0	24.1	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	96	965285	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	89	302828	25.0	24.1	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	99	622764	50.0	54.0	
13 Chloromethane	50	1.501	1.501	0.000	100	1384650	50.0	49.5	
14 Vinyl chloride	62	1.586	1.586	0.000	97	976976	50.0	49.9	
144 Butadiene	54	1.616	1.616	0.000	94	1142964	50.0	52.8	
15 Bromomethane	94	1.902	1.902	0.000	91	458453	50.0	48.5	
16 Chloroethane	64	1.981	1.981	0.000	95	522977	50.0	49.9	
18 Trichlorofluoromethane	101	2.212	2.188	0.024	96	900511	50.0	53.1	
17 Dichlorofluoromethane	67	2.194	2.194	0.000	97	1074226	50.0	48.2	
19 Ethyl ether	59	2.474	2.474	0.000	94	818653	50.0	50.0	
20 Acrolein	56	2.626	2.626	0.000	100	973831	250.0	245.6	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	90	513060	50.0	51.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.000	92	508970	50.0	56.8	
23 Acetone	43	2.784	2.784	0.000	98	1774411	250.0	235.1	
24 Iodomethane	142	2.827	2.827	0.000	99	915567	50.0	51.1	
25 Carbon disulfide	76	2.869	2.869	0.000	98	1688365	50.0	53.6	
27 3-Chloro-1-propene	41	3.040	3.040	0.000	87	1787180	50.0	52.5	
28 Methyl acetate	43	3.082	3.082	0.000	99	1981806	100.0	96.0	
30 Methylene Chloride	84	3.167	3.167	0.000	89	600609	50.0	49.2	
31 2-Methyl-2-propanol	59	3.332	3.338	-0.006	97	1015211	500.0	461.2	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	91	595489	50.0	51.7	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	94	1943716	50.0	51.2	
34 Acrylonitrile	53	3.429	3.429	0.000	98	4781685	500.0	492.9	
35 Hexane	57	3.624	3.624	0.000	96	1398929	50.0	56.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.806	3.812	-0.006	97	1336306	50.0	52.5	
39 Vinyl acetate	43	3.861	3.867	-0.006	96	5323699	100.0	104.9	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	84	770333	50.0	52.7	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	697032	50.0	52.9	
44 2-Butanone (MEK)	43	4.378	4.384	-0.006	96	3098811	250.0	245.0	
47 Chlorobromomethane	128	4.579	4.579	0.000	85	329320	50.0	49.9	
49 Tetrahydrofuran	42	4.615	4.615	0.000	92	841339	100.0	92.3	
50 Chloroform	83	4.664	4.664	0.000	95	1045179	50.0	49.9	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	914998	50.0	54.4	
52 Cyclohexane	56	4.816	4.816	0.000	92	1693293	50.0	57.3	
53 Carbon tetrachloride	117	4.938	4.938	0.000	96	803850	50.0	56.9	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	86	815417	50.0	51.7	
56 Isobutyl alcohol	43	5.132	5.132	0.000	97	1648145	1250.0	1299.1	
55 Benzene	78	5.138	5.139	-0.001	95	2443308	50.0	51.8	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	1092878	50.0	48.3	
59 n-Heptane	43	5.351	5.345	0.006	96	1614503	50.0	57.6	
60 Trichloroethene	95	5.747	5.747	0.000	94	640755	50.0	51.7	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	1082010	50.0	57.1	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	90	772297	50.0	53.0	
64 Dibromomethane	93	6.106	6.100	0.006	94	378515	50.0	50.5	
66 1,4-Dioxane	88	6.112	6.118	-0.006	87	137426	1000.0	1019.4	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	825311	50.0	53.9	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	85	566687	50.0	52.3	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	84	969389	50.0	54.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	2220382	250.0	256.0	
73 Toluene	92	6.982	6.982	0.000	97	1547669	50.0	51.3	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	90	887570	50.0	55.0	
77 Ethyl methacrylate	69	7.304	7.304	0.000	88	848267	50.0	52.0	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	95	462328	50.0	53.0	
79 Tetrachloroethene	166	7.523	7.523	0.000	96	693717	50.0	54.0	
80 1,3-Dichloropropane	76	7.590	7.584	0.006	88	909690	50.0	51.0	
82 2-Hexanone	43	7.657	7.657	0.000	98	4735617	250.0	251.6	
83 Chlorodibromomethane	129	7.827	7.828	-0.001	89	640223	50.0	55.9	
84 Ethylene Dibromide	107	7.931	7.931	0.000	97	594218	50.0	53.8	
85 Chlorobenzene	112	8.418	8.418	0.000	93	1771526	50.0	53.0	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	92	626784	50.0	57.1	
88 Ethylbenzene	91	8.521	8.521	0.000	98	2871982	50.0	53.4	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	1155511	50.0	52.9	
91 o-Xylene	106	9.068	9.069	-0.001	97	1138342	50.0	54.0	
92 Styrene	104	9.093	9.093	0.000	94	1936122	50.0	54.1	
93 Bromoform	173	9.324	9.324	0.000	96	417692	50.0	57.0	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	2924587	50.0	55.8	
97 Bromobenzene	156	9.792	9.793	0.000	90	729404	50.0	53.8	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	761648	50.0	54.2	
99 1,2,3-Trichloropropane	110	9.865	9.859	0.006	94	242035	50.0	53.2	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	82	395164	50.0	54.0	
100 N-Propylbenzene	91	9.884	9.884	0.000	98	3316997	50.0	55.5	
102 2-Chlorotoluene	126	9.987	9.981	0.006	97	698990	50.0	54.1	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	2399540	50.0	55.6	
105 4-Chlorotoluene	91	10.097	10.091	0.006	98	2249887	50.0	54.1	
106 tert-Butylbenzene	134	10.383	10.383	0.000	94	564827	50.0	57.7	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	2440651	50.0	55.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.596	-0.001	95	3071333	50.0	55.8	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	1402193	50.0	53.8	
111 4-Isopropyltoluene	119	10.741	10.742	-0.001	98	2827136	50.0	57.6	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	1413437	50.0	53.4	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	2333199	50.0	57.2	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.006	98	1347031	50.0	54.8	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.885	-0.006	81	132334	50.0	58.0	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	868821	50.0	56.7	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	97	384572	50.0	52.0	
121 Naphthalene	128	12.786	12.786	0.000	97	2359825	50.0	58.5	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	741342	50.0	56.6	
S 124 1,2-Dichloroethene, Total	1				0			104.7	
S 125 Total BTEX	1				0			263.4	
S 126 Xylenes, Total	1				0			106.9	
S 123 1,3-Dichloropropene, Total	1				0			109.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119

Amount Added: 25.00

Units: uL

GAS CORP mix_00262

Amount Added: 25.00

Units: uL

N_8260_Surr_00314

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00103

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6819.D

Injection Date: 31-Jan-2018 18:13:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 6

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

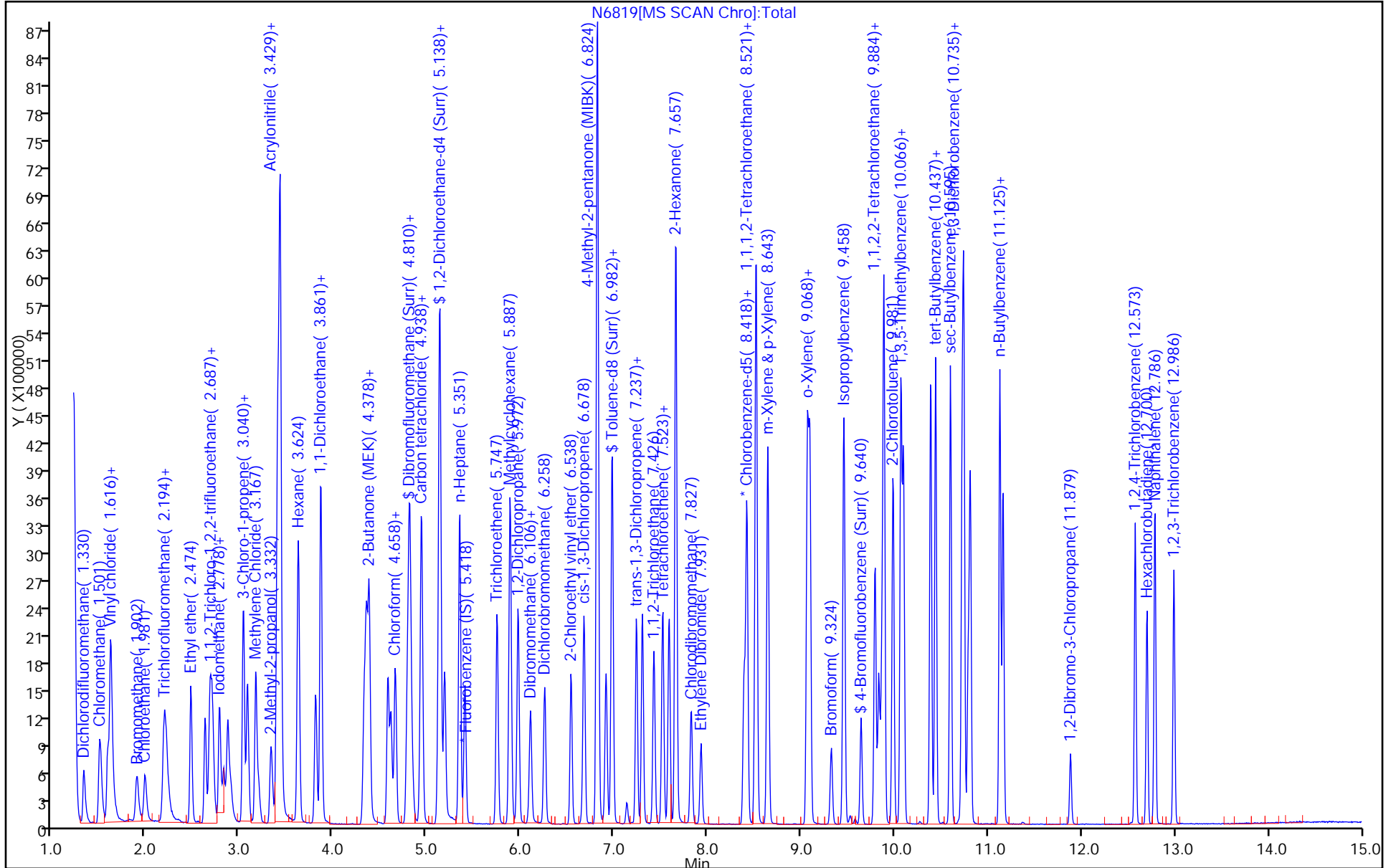
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

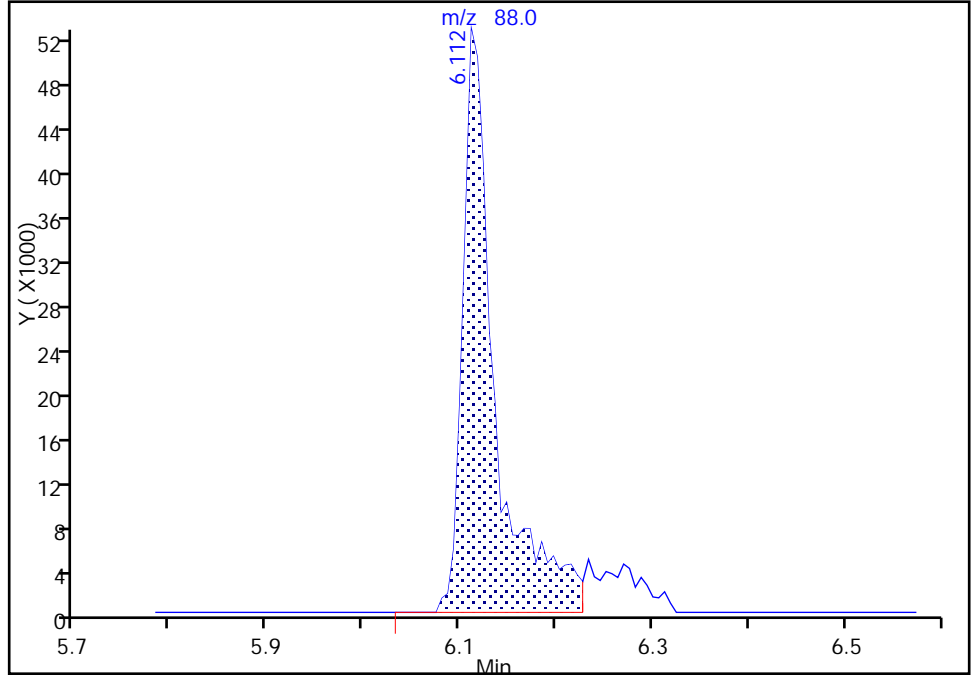
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Injection Date: 31-Jan-2018 18:13:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

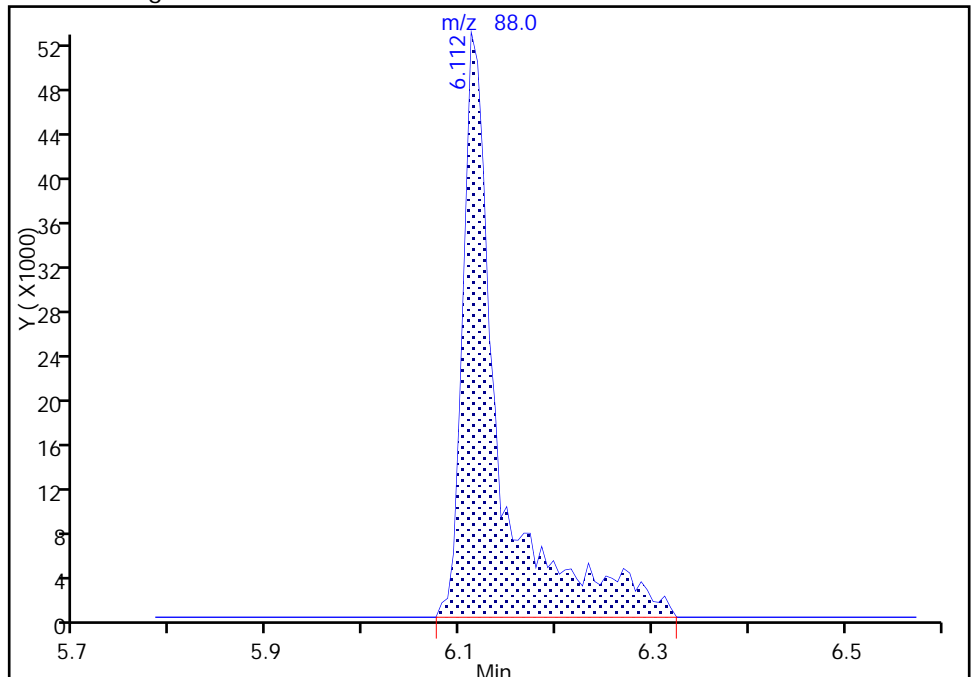
RT: 6.11
Area: 121921
Amount: 936.1182
Amount Units: ug/L

Processing Integration Results



RT: 6.11
Area: 137426
Amount: 1019.3919
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:30:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6820.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 31-Jan-2018 18:40:30 ALS Bottle#: 14 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0068951-014
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:26 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 10:32:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	218544	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	90	817566	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	409341	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.816	-0.006	92	236132	25.0	24.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	329667	25.0	24.4	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	96	993368	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.640	0.006	92	309624	25.0	24.3	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	98	1232422	100.0	108.3	
13 Chloromethane	50	1.500	1.501	-0.001	100	2812941	100.0	101.9	
14 Vinyl chloride	62	1.586	1.586	0.000	97	1967412	100.0	101.8	
144 Butadiene	54	1.616	1.616	0.000	93	2329365	100.0	109.2	
15 Bromomethane	94	1.896	1.902	-0.006	90	947284	100.0	101.7	
16 Chloroethane	64	1.981	1.981	0.000	95	1058761	100.0	102.4	
18 Trichlorofluoromethane	101	2.212	2.188	0.024	97	1823554	100.0	109.0	
17 Dichlorofluoromethane	67	2.194	2.194	0.000	97	2184329	100.0	99.4	
19 Ethyl ether	59	2.474	2.474	0.000	95	1690377	100.0	104.7	
20 Acrolein	56	2.626	2.626	0.000	99	1998819	500.0	511.0	
22 1,1-Dichloroethene	96	2.681	2.681	0.000	91	1018389	100.0	102.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.000	92	978531	100.0	110.8	
23 Acetone	43	2.778	2.784	-0.006	98	3593835	500.0	482.6	
24 Iodomethane	142	2.827	2.827	0.000	100	1825247	100.0	103.3	
25 Carbon disulfide	76	2.869	2.869	0.000	98	3468366	100.0	111.7	
27 3-Chloro-1-propene	41	3.034	3.040	-0.006	87	3485425	100.0	103.8	
28 Methyl acetate	43	3.076	3.082	-0.006	99	4092395	200.0	200.9	
30 Methylene Chloride	84	3.167	3.167	0.000	89	1197927	100.0	99.9	
31 2-Methyl-2-propanol	59	3.332	3.338	-0.006	97	2200196	1000.0	1013.2	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	94	3941492	100.0	105.3	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	91	1206291	100.0	106.2	
34 Acrylonitrile	53	3.429	3.429	0.000	99	9878233	1000.0	1032.1	
35 Hexane	57	3.624	3.624	0.000	96	2770815	100.0	112.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.806	3.812	-0.006	96	2707831	100.0	107.9	
39 Vinyl acetate	43	3.861	3.867	-0.006	96	10941857	200.0	218.6	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	85	1527046	100.0	106.0	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	89	1373537	100.0	105.7	
44 2-Butanone (MEK)	43	4.378	4.384	-0.006	96	6427664	500.0	515.0	
47 Chlorobromomethane	128	4.585	4.579	0.006	85	672914	100.0	103.4	
49 Tetrahydrofuran	42	4.609	4.615	-0.006	93	1716692	200.0	190.9	
50 Chloroform	83	4.658	4.664	-0.006	95	2116948	100.0	102.6	
51 1,1,1-Trichloroethane	97	4.786	4.792	-0.006	96	1818057	100.0	109.5	
52 Cyclohexane	56	4.816	4.816	0.000	93	3317281	100.0	113.8	
53 Carbon tetrachloride	117	4.932	4.938	-0.006	96	1621534	100.0	116.3	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	85	1629162	100.0	104.6	
56 Isobutyl alcohol	43	5.132	5.132	0.000	95	3466060	2500.0	2769.3	
55 Benzene	78	5.138	5.139	-0.001	95	4960572	100.0	106.7	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	2191224	100.0	98.1	
59 n-Heptane	43	5.351	5.345	0.006	96	3229264	100.0	116.8	
60 Trichloroethene	95	5.747	5.747	0.000	94	1297719	100.0	106.2	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	2161063	100.0	115.5	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	89	1576727	100.0	109.6	
64 Dibromomethane	93	6.100	6.100	0.000	96	768619	100.0	103.9	
66 1,4-Dioxane	88	6.118	6.118	0.000	87	278560	2000.0	2038.8	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	1719338	100.0	113.8	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	85	1158410	100.0	108.4	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	84	1972102	100.0	112.3	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	4543249	500.0	516.8	
73 Toluene	92	6.982	6.982	0.000	97	3138728	100.0	102.7	
75 trans-1,3-Dichloropropene	75	7.237	7.237	0.000	92	1853998	100.0	113.3	
77 Ethyl methacrylate	69	7.304	7.304	0.000	88	1721209	100.0	104.0	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	936917	100.0	106.0	
79 Tetrachloroethene	166	7.523	7.523	0.000	95	1355280	100.0	104.0	
80 1,3-Dichloropropane	76	7.590	7.584	0.006	90	1887193	100.0	104.4	
82 2-Hexanone	43	7.657	7.657	0.000	98	9497209	500.0	497.8	
83 Chlorodibromomethane	129	7.827	7.828	-0.001	90	1337439	100.0	115.3	
84 Ethylene Dibromide	107	7.931	7.931	0.000	97	1212433	100.0	108.3	
85 Chlorobenzene	112	8.418	8.418	0.000	92	3579873	100.0	105.8	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	93	1274567	100.0	114.6	
88 Ethylbenzene	91	8.521	8.521	0.000	98	5809699	100.0	106.5	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	2316813	100.0	104.7	
91 o-Xylene	106	9.068	9.069	-0.001	97	2283106	100.0	106.8	
92 Styrene	104	9.093	9.093	0.000	94	3902291	100.0	107.5	
93 Bromoform	173	9.324	9.324	0.000	97	885742	100.0	119.3	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	5852766	100.0	111.4	
97 Bromobenzene	156	9.792	9.793	0.000	90	1471819	100.0	108.2	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	95	1524021	100.0	108.1	
99 1,2,3-Trichloropropane	110	9.865	9.859	0.006	92	465147	100.0	102.0	
101 trans-1,4-Dichloro-2-buten	53	9.884	9.878	0.006	84	784598	100.0	106.9	
100 N-Propylbenzene	91	9.890	9.884	0.006	99	6627398	100.0	110.6	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	1370792	100.0	105.9	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	4771077	100.0	110.3	
105 4-Chlorotoluene	91	10.097	10.091	0.006	98	4511562	100.0	108.3	
106 tert-Butylbenzene	134	10.383	10.383	-0.001	95	1087476	100.0	110.9	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	4900762	100.0	110.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.596	-0.001	95	6193860	100.0	112.3	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	2798366	100.0	107.2	
111 4-Isopropyltoluene	119	10.741	10.742	-0.001	98	5605144	100.0	113.9	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	94	2857688	100.0	107.8	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	4614898	100.0	112.9	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.006	98	2668697	100.0	108.3	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.885	-0.006	81	284524	100.0	124.4	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	1775955	100.0	115.5	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	97	800288	100.0	108.0	
121 Naphthalene	128	12.786	12.786	0.000	97	4963186	100.0	122.7	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	96	1587263	100.0	120.8	
S 126 Xylenes, Total	1				0			211.5	
S 123 1,3-Dichloropropene, Total	1				0			225.5	
S 124 1,2-Dichloroethene, Total	1				0			211.9	
S 125 Total BTEX	1				0			527.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119

Amount Added: 50.00

Units: uL

GAS CORP mix_00262

Amount Added: 50.00

Units: uL

N_8260_Surr_00314

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00103

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6820.D

Injection Date: 31-Jan-2018 18:40:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 7

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

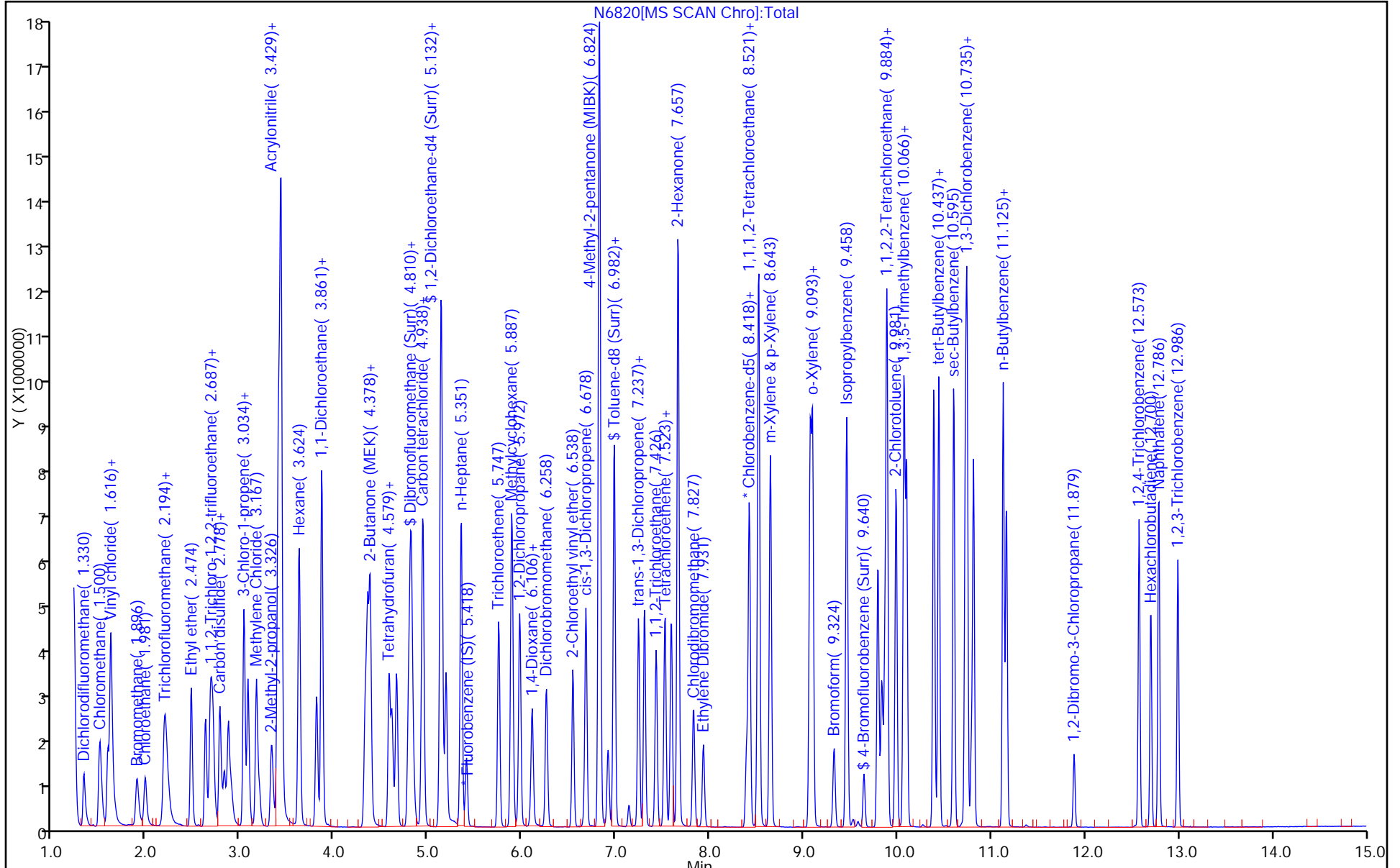
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

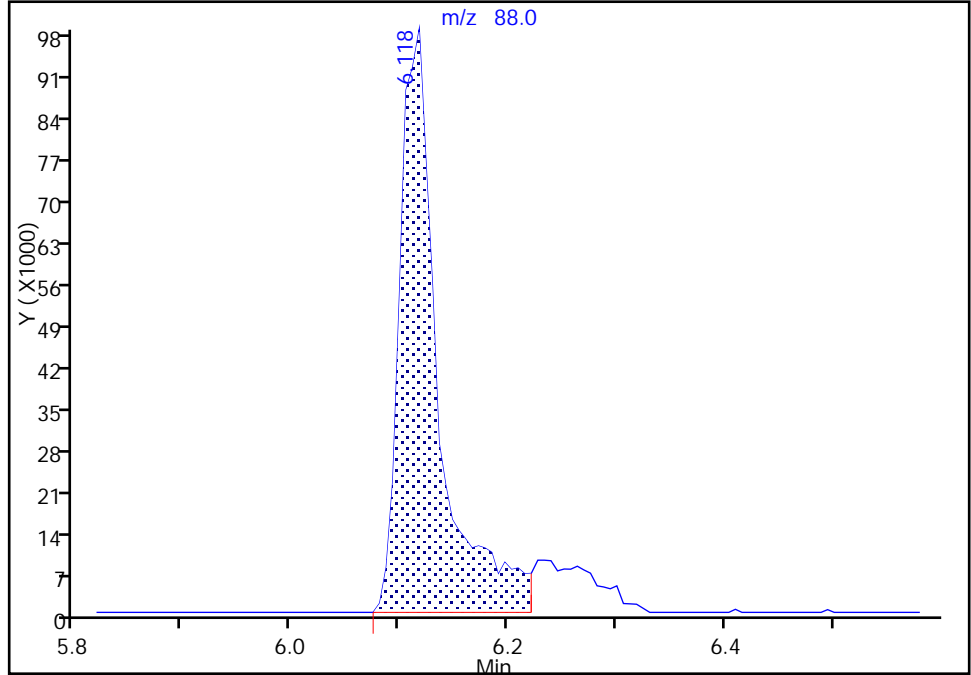
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6820.D
Injection Date: 31-Jan-2018 18:40:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

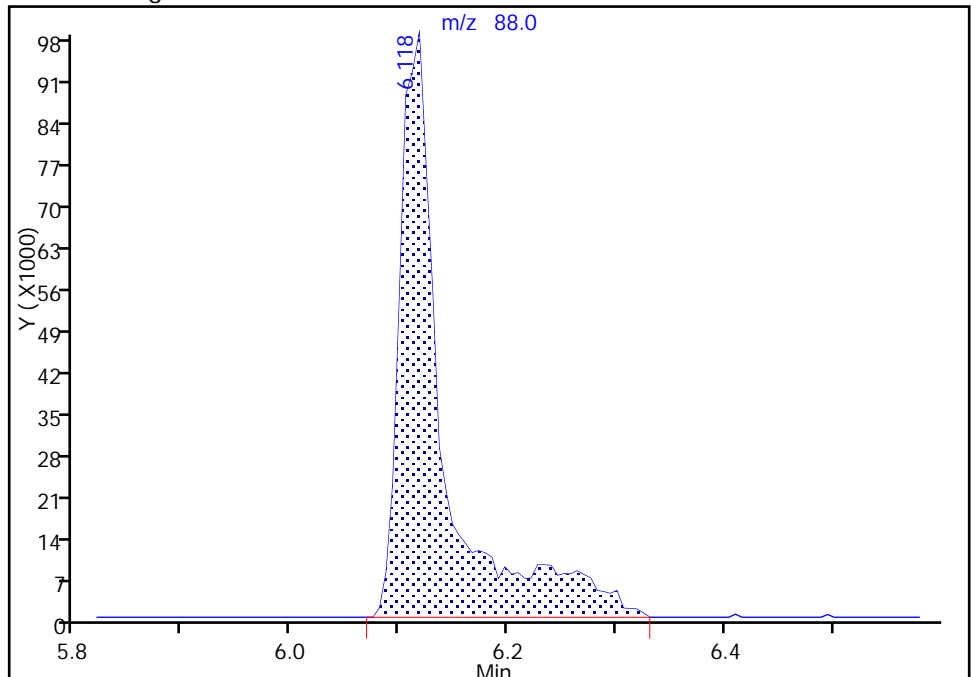
RT: 6.12
Area: 245135
Amount: 1826.0497
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 278560
Amount: 2038.7785
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:35:15
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 20:53 Calibration End Date: 01/31/2018 23:35 Calibration ID: 32731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-398122/19	N6825.D
Level 2	IC 480-398122/20	N6826.D
Level 3	IC 480-398122/21	N6827.D
Level 4	IC 480-398122/22	N6828.D
Level 5	IC 480-398122/23	N6829.D
Level 6	IC 480-398122/24	N6830.D
Level 7	IC 480-398122/25	N6831.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Chlorodifluoromethane	1.8438 2.8881	2.0561 2.7181	2.2705	2.3862	2.5766	Ave		2.3914			15.4		20.0				
Ethanol	++++ 0.0223	0.0185 0.0280	0.0158	0.0240	0.0206	Ave		0.0215			19.8		20.0				
Isopropyl alcohol	++++ 0.1804	0.1035 0.1628	0.1249	0.1493	0.1586	Ave		0.1466			19.0		20.0				
Acetonitrile	++++ 0.2107	0.1756 0.1985	0.1947	0.1944	0.2055	Ave		0.1966			6.2		20.0				
Isopropyl ether	7.8574 9.5288	7.3662 9.2438	7.4888	8.1527	9.0481	Ave		8.3837			10.5		20.0				
Chloroprene	3.1133 3.9434	2.6029 3.8495	3.1129	3.2833	3.6158	Ave		3.3602			14.1		20.0				
1,1-Dimethoxyethane	0.3007 0.3496	0.2620 0.3343	0.2913	0.3095	0.3249	Ave		0.3103			9.4		20.0				
Tert-butyl ethyl ether	5.9754 7.2375	5.6336 7.1184	5.7750	6.4251	6.8542	Ave		6.4313			10.2		20.0				
Ethyl acetate	2.8728 3.2001	2.6542 3.0103	2.5336	2.8546	3.0102	Ave		2.8765			7.9		20.0				
Propionitrile	0.2931 0.4369	0.3306 0.4151	0.3346	0.3732	0.4113	Ave		0.3707			14.3		20.0				
Methacrylonitrile	0.6331 0.7859	0.6218 0.7412	0.6419	0.7092	0.7412	Ave		0.6963			9.2		20.0				
Isooctane	++++ 7.5955	5.0813 7.3726	6.5749	6.5361	6.8659	Ave		6.6711			13.3		20.0				
t-Amyl alcohol	0.2076 0.2660	0.2267 0.2449	0.1973	0.2246	0.2361	Ave		0.2290			10.0		20.0				
Tert-amyl methyl ether	4.2271 5.6561	4.2561 5.4105	4.5502	4.8538	5.3407	Ave		4.8992			11.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 20:53 Calibration End Date: 01/31/2018 23:35 Calibration ID: 32731

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,4-Difluorobenzene	3.3017 4.6269	3.0962 4.5324	3.6963	3.9751	4.3391	Ave		3.9383			15.2		20.0				
n-Butanol	++++ 0.0876	0.0602 0.0820	0.0578	0.0676	0.0789	Ave		0.0723			16.9		20.0				
Ethyl acrylate	2.8764 3.7631	2.9212 3.4690	2.8571	3.1892	3.4856	Ave		3.2231			11.1		20.0				
Methyl methacrylate	2.1767 2.7980	2.1041 2.5858	2.1848	2.3971	2.6483	Ave		2.4135			11.2		20.0				
2-Nitropropane	0.3347 0.3790	0.3224 0.4139	0.2835	0.2808	0.3544	Ave		0.3384			14.4		20.0				
Epichlorohydrin	0.2244 0.2907	0.2047 0.2687	0.2234	0.2394	0.2673	Ave		0.2455			12.6		20.0				
2-Methylthiophene	1.7810 2.4787	1.9108 2.5652	1.9409	2.3140	2.4898	Ave		2.2115			14.7		20.0				
3-Methylthiophene	1.9946 2.4834	2.2693 2.5989	2.2773	2.4090	2.5283	Ave		2.3658			8.7		20.0				
n-Butyl acetate	1.3015 1.3470	1.2403 1.2809	1.1554	1.2110	1.2757	Ave		1.2588		0.1000	5.0		20.0				
1-Chlorohexane	++++ 0.5880	0.7570 0.5877	0.5641	0.5185	0.5444	Ave		0.5933			14.2		20.0				
3-Chlorobenzotrifluoride	0.7970 1.0869	0.8829 1.1663	0.9495	0.8866	1.0524	Ave		0.9745			13.5		20.0				
4-Chlorobenzotrifluoride	0.7869 0.9998	0.7317 1.0964	0.8940	0.8405	0.9803	Ave		0.9042			14.2		20.0				
2-Chlorobenzotrifluoride	0.9010 1.1308	0.9259 1.2186	0.9958	0.9458	1.1243	Ave		1.0346			11.9		20.0				
Cyclohexanone	0.0475 0.0529	0.0356 0.0528	0.0468	0.0424	0.0539	Ave		0.0474			14.1		20.0				
3-Chlorotoluene	0.7242 0.8396	0.6784 0.8989	0.7185	0.7335	0.8389	Ave		0.7760			10.6		20.0				
Pentachloroethane	0.2944 0.2199	0.1996 0.2256	0.2045	0.2116	0.2286	Ave		0.2263			14.1		20.0				
Dicyclopentadiene	++++ 3.8731	3.2828 4.2252	3.1972	3.2092	3.7434	Ave		3.5885			11.8		20.0				
1,2,3-Trimethylbenzene	2.0806 2.9468	2.1843 3.1076	2.4419	2.5532	2.9482	Ave		2.6089			15.4		20.0				
Benzyl chloride	++++ 0.1486	0.0822 0.1504	0.1035	0.1106	0.1350	Lin1	-0.114	0.1478						0.9960		0.9900	
1,3,5-Trichlorobenzene	0.8765 1.1133	0.7592 1.2363	0.9380	0.9643	1.1200	Ave		1.0011			16.4		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 20:53 Calibration End Date: 01/31/2018 23:35 Calibration ID: 32731

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
2-Methylnaphthalene	0.5856 1.3413	0.7207 1.6399	0.7831	0.9060	1.1844	Ave		1.0230			37.0	*	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 20:53 Calibration End Date: 01/31/2018 23:35 Calibration ID: 32731

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-398122/19	N6825.D
Level 2	IC 480-398122/20	N6826.D
Level 3	IC 480-398122/21	N6827.D
Level 4	IC 480-398122/22	N6828.D
Level 5	IC 480-398122/23	N6829.D
Level 6	IC 480-398122/24	N6830.D
Level 7	IC 480-398122/25	N6831.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Chlorodifluoromethane	FB	Ave	7721 1152819	17266 2366281	96260	195680	532571	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Ave	++++ 355787	6228 974514	26793	78691	169929	++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	++++ 720121	8694 1417223	52960	122439	327741	++++ 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	++++ 840913	14742 1728219	82565	159433	424707	++++ 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	32903 3803503	61856 8047267	317491	668549	1870241	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	13037 1574059	21857 3351260	131973	269243	747373	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	6296 697706	10999 1455272	61752	126913	335791	2.50 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	25022 2888911	47307 6197022	244833	526882	1416756	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	24060 2554684	44576 5241294	214824	468172	1244391	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	12275 1744046	27763 3613997	141838	306026	850191	5.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	26511 3136855	52218 6452907	272151	581604	1532027	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	++++ 3031827	42669 6418328	278746	535986	1419169	++++ 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	8695 1061897	19038 2131737	83634	184212	488095	5.00 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	17701 2257673	35740 4710124	192908	398025	1103926	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	13826 1846868	26000 3945755	156708	325976	896893	0.500 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 20:53

Calibration End Date: 01/31/2018 23:35

Calibration ID: 32731

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	FB	Ave	++++ 874146	12635 1785337	61314	138486	407504	++++ 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	12045 1502086	24530 3019938	121128	261522	720463	0.500 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	18230 2233667	35338 4502116	185247	393144	1094788	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCBd 4	Ave	5418 624992	10250 1351647	46062	93789	283287	1.00 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	9397 1160497	17186 2338814	94695	196313	552556	5.00 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCBd 4	Ave	14415 2043801	30373 4188145	157662	386437	995073	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCBd 4	Ave	16144 2047665	36070 4243160	184985	402312	1010457	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	CBNZ d5	Ave	20009 2040916	38912 4013231	177711	368292	995069	0.500 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBNZ d5	Ave	++++ 890875	23751 1841203	86761	157688	424638	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCBd 4	Ave	6451 896155	14033 1904170	77125	148056	420609	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCBd 4	Ave	6369 824389	11630 1790011	72619	140365	391798	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCBd 4	Ave	7293 932364	14717 1989490	80889	157948	449345	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCBd 4	Ave	3847 436429	5656 861573	37982	70750	215478	5.00 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCBd 4	Ave	5862 692236	10784 1467630	58366	122489	335263	0.500 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCBd 4	Ave	2383 181320	3173 368397	16609	35335	91362	0.500 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCBd 4	Ave	++++ 3193455	52181 6898280	259708	535938	1496103	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	16840 2429743	34719 5073756	198357	426385	1178304	0.500 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBNZ d5	Lin1	++++ 225205	2579 471228	15925	33623	105281	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	7094 917959	12067 2018386	76197	161045	447637	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCBd 4	Ave	4740 1105915	11455 2677383	63607	151307	473366	0.500 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 398122

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/31/2018 20:53 Calibration End Date: 01/31/2018 23:35 Calibration ID: 32731

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Jan-2018 20:53:30 ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0068951-019
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:07:55 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 10:55:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	209375	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	91	768696	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	96	404697	25.0	25.0	
12 Chlorodifluoromethane	51	1.349	1.348	0.001	96	7721	0.5000	0.3855	M
141 Ethanol	45		2.456				ND	ND	
81 Propene oxide	58	2.559	2.547	0.012	87	9559	NC	NC	a
26 Isopropyl alcohol	45	2.967	2.960	0.007	51	3901	5.00	3.18	
29 Acetonitrile	40	3.082	3.058	0.024	79	15616	5.00	9.49	
37 Isopropyl ether	45	3.855	3.849	0.006	97	32903	0.5000	0.4686	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	44	13037	0.5000	0.4633	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	96	6296	2.50	2.42	
41 Tert-butyl ethyl ether	59	4.184	4.183	0.001	93	25022	0.5000	0.4646	
45 Ethyl acetate	43	4.433	4.427	0.006	97	24060	1.00	1.00	
46 Propionitrile	54	4.476	4.463	0.013	91	12275	5.00	3.95	M
48 Methacrylonitrile	67	4.585	4.585	0.000	97	26511	5.00	4.55	M
146 Isooctane	57	5.169	5.169	0.000	93	17186	0.5000	0.3076	
140 t-Amyl alcohol	59	5.199	5.193	0.006	7	8695	5.00	4.53	M
58 Tert-amyl methyl ether	73	5.224	5.230	-0.006	77	17701	0.5000	0.4314	
1 1,4-Difluorobenzene	114	5.510	5.516	-0.006	96	13826	0.5000	0.4192	
61 n-Butanol	56		5.747				ND	ND	U
145 Ethyl acrylate	55	5.869	5.862	0.007	93	12045	0.5000	0.4462	
65 Methyl methacrylate	41	6.082	6.081	0.001	88	18230	1.00	0.9019	
68 2-Nitropropane	43	6.489	6.489	0.000	66	5418	1.00	0.9891	
70 Epichlorohydrin	57	6.629	6.617	0.012	95	9397	5.00	4.57	M
74 2-Methylthiophene	97	7.122	7.109	0.013	95	14415	0.5000	0.4027	
76 3-Methylthiophene	97	7.274	7.274	0.000	94	16144	0.5000	0.4215	
149 n-Butyl acetate	43	7.779	7.785	-0.006	95	20009	0.5000	0.5170	
139 1-Chlorohexane	55	8.381	8.381	0.000	34	18609	0.5000	1.02	
86 3-Chlorobenzotrifluoride	180	8.393	8.393	0.000	53	6451	0.5000	0.4089	
87 4-Chlorobenzotrifluoride	180	8.454	8.460	-0.006	80	6369	0.5000	0.4351	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.373	9.366	0.007	33	7293	0.5000	0.4355	M
96 Cyclohexanone	55	9.592	9.592	0.000	28	3847	5.00	5.01	
103 3-Chlorotoluene	126	10.048	10.048	0.000	93	5862	0.5000	0.4667	
107 Pentachloroethane	167	10.425	10.431	-0.006	12	2383	0.5000	0.6504	M
112 Dicyclopentadiene	66		10.802				ND	ND	MU
114 1,2,3-Trimethylbenzene	105	10.839	10.845	-0.006	93	16840	0.5000	0.3987	
143 Benzyl chloride	126	10.942	10.948	-0.006	23	1226	0.5000	1.04	M
118 1,3,5-Trichlorobenzene	180	12.031	12.037	-0.006	94	7094	0.5000	0.4378	
142 2-Methylnaphthalene	142	13.698	13.704	-0.006	78	4740	0.5000	0.2862	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 0.50	Units: uL
2MTP_WRK_00068	Amount Added: 0.50	Units: uL
3MTP_WRK_00069	Amount Added: 0.50	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D

Injection Date: 31-Jan-2018 20:53:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 8

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

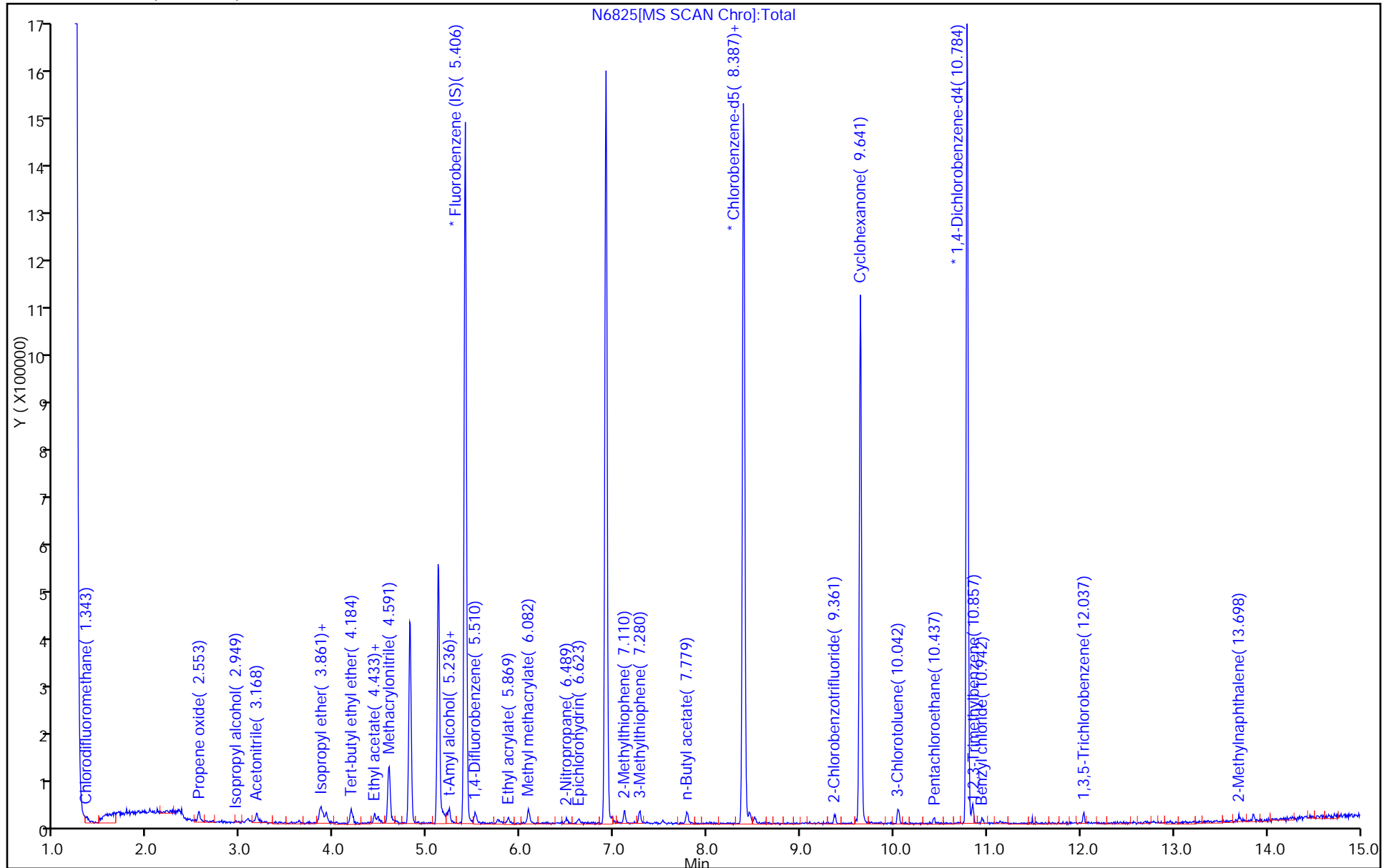
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

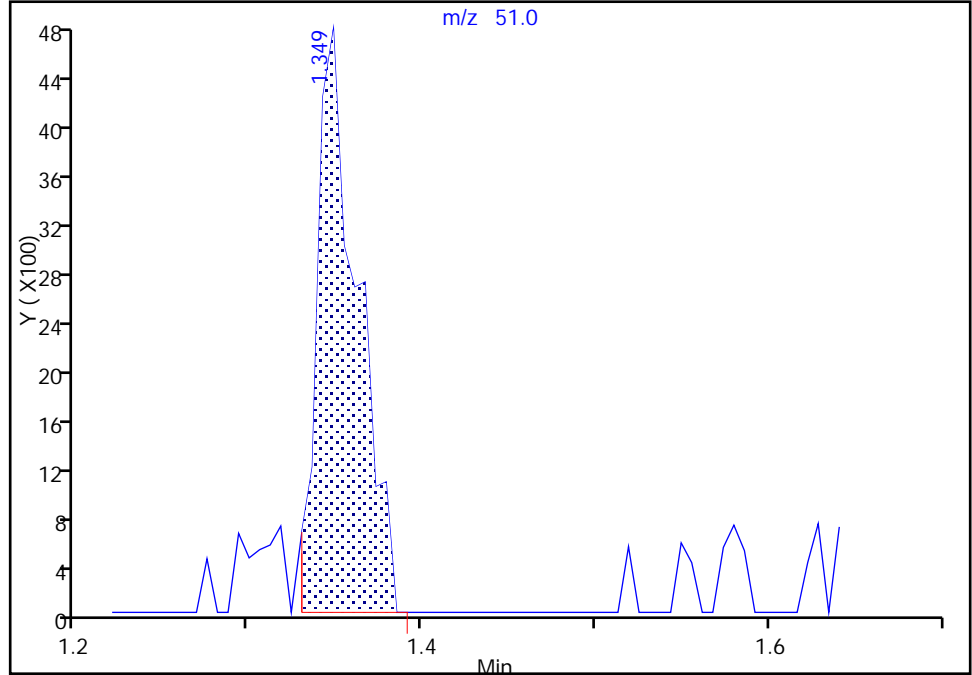
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

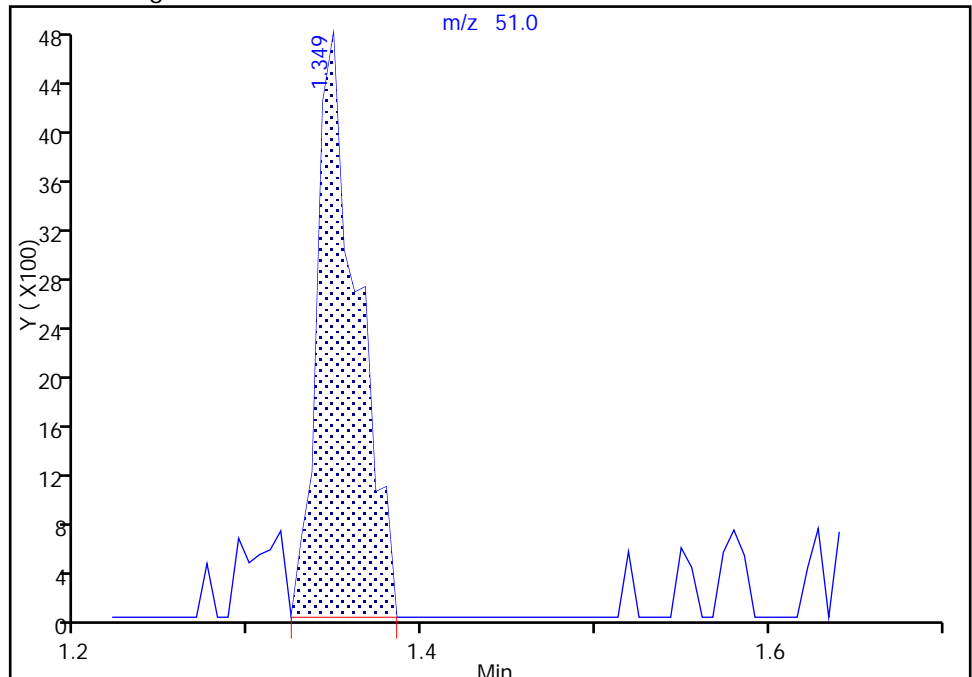
RT: 1.35
Area: 7721
Amount: 0.385518
Amount Units: ug/L

Processing Integration Results



RT: 1.35
Area: 7721
Amount: 0.385518
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:48:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

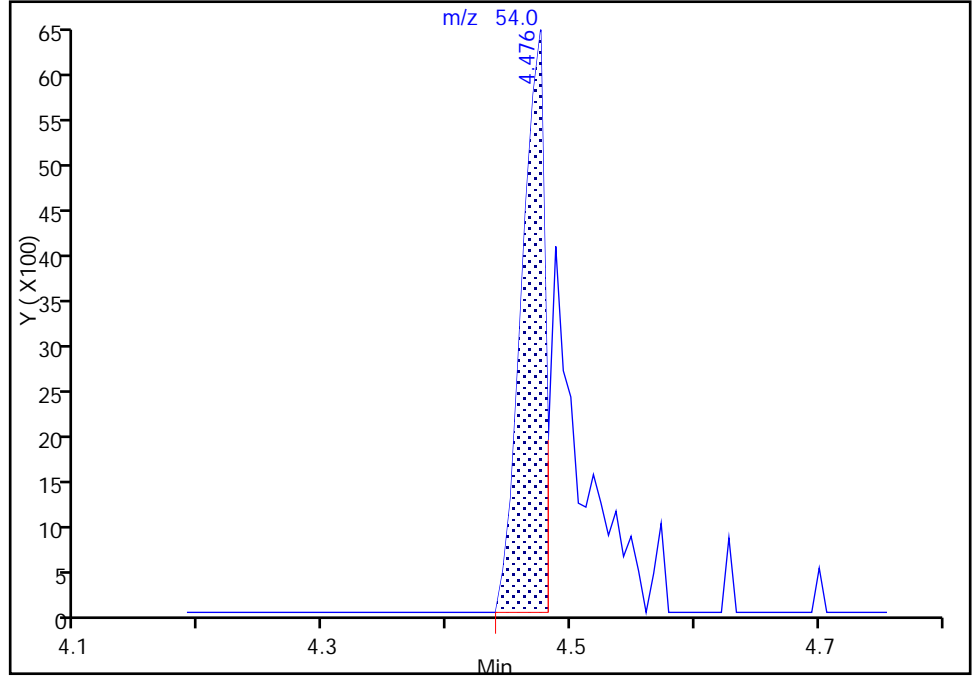
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Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

46 Propionitrile, CAS: 107-12-0

Signal: 1

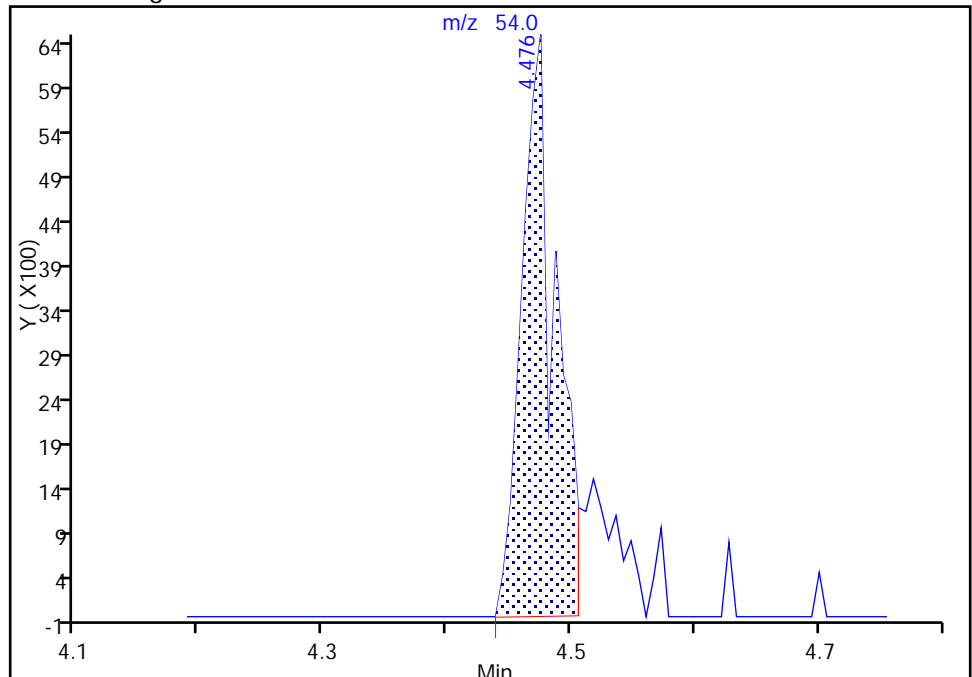
RT: 4.48
Area: 8492
Amount: 5.871867
Amount Units: ug/L

Processing Integration Results



RT: 4.48
Area: 12275
Amount: 3.953825
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:49:19
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

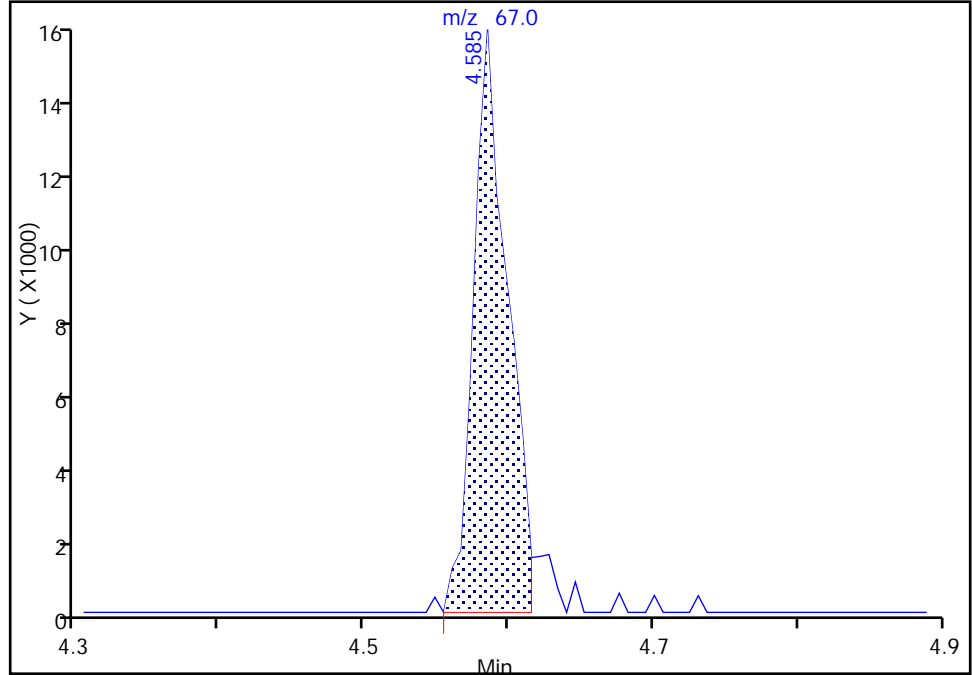
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

48 Methacrylonitrile, CAS: 126-98-7

Signal: 1

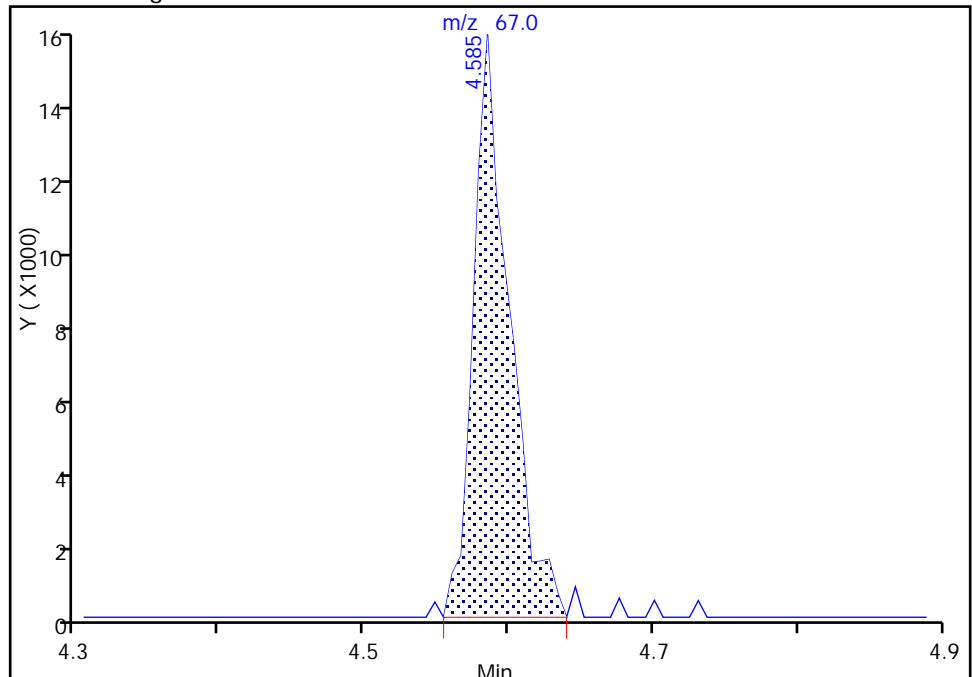
RT: 4.59
Area: 25188
Amount: 4.347198
Amount Units: ug/L

Processing Integration Results



RT: 4.59
Area: 26511
Amount: 4.545878
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:49:31
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

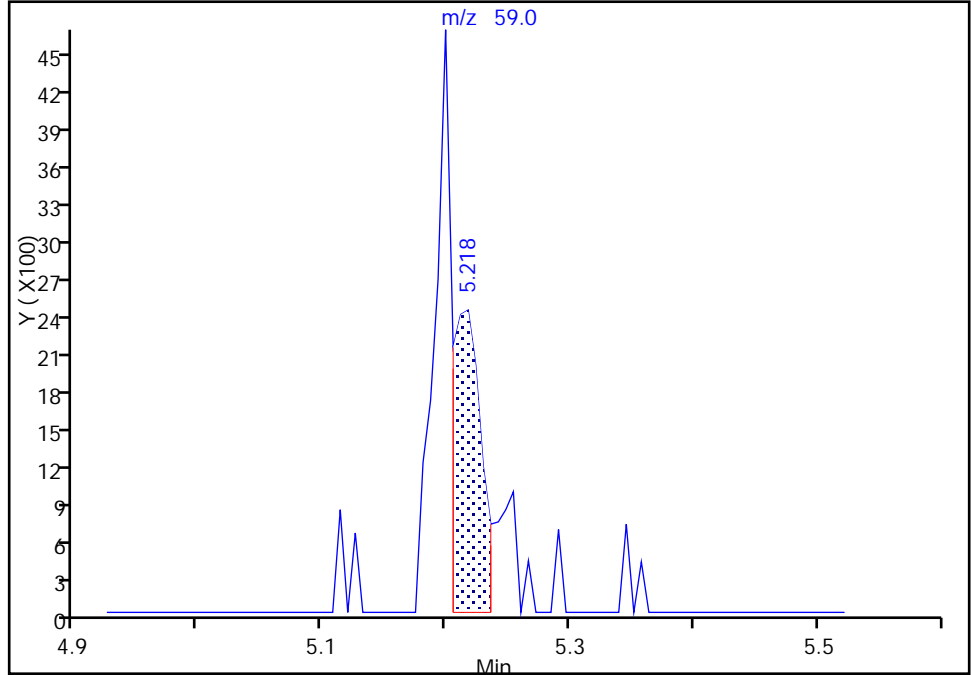
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Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

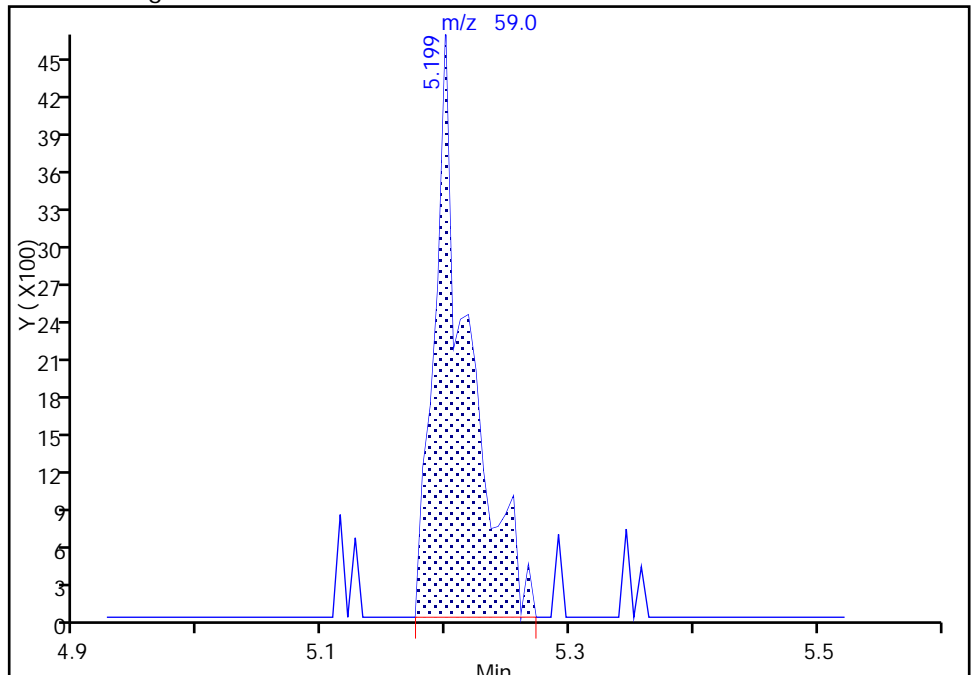
RT: 5.22
Area: 3919
Amount: 5.434495
Amount Units: ug/L

Processing Integration Results



RT: 5.20
Area: 8695
Amount: 4.532793
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 14:50:52
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

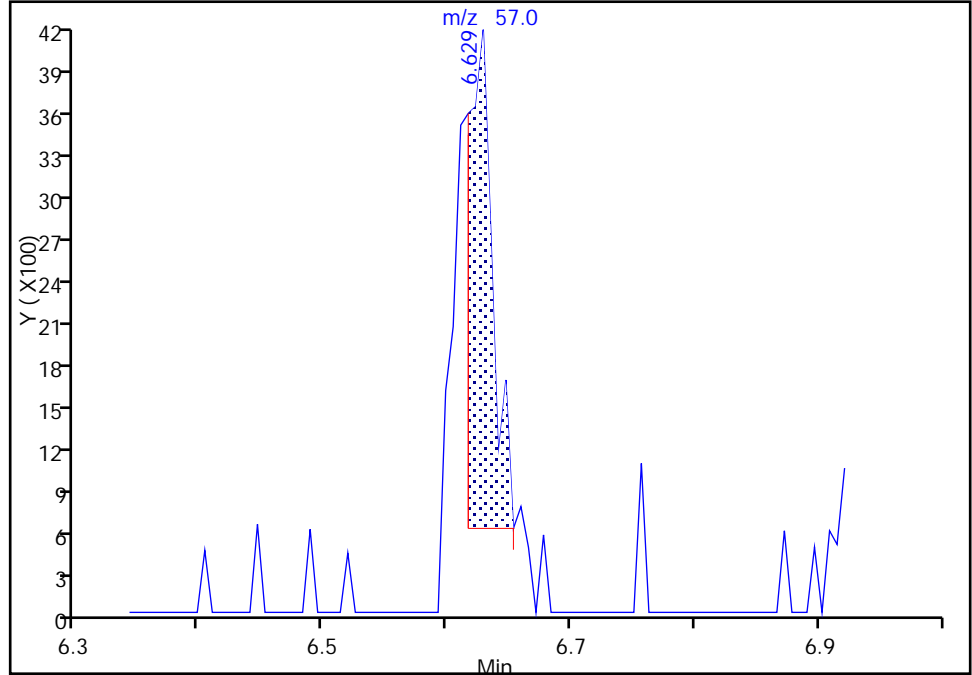
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

70 Epichlorohydrin, CAS: 106-89-8

Signal: 1

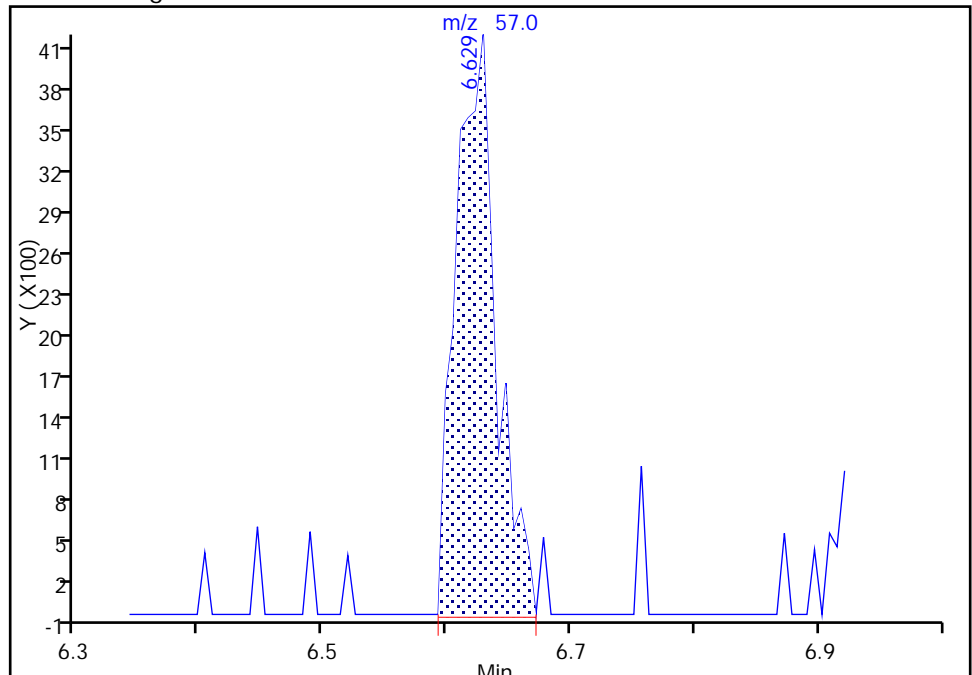
RT: 6.63
Area: 4775
Amount: 5.445943
Amount Units: ug/L

Processing Integration Results



RT: 6.63
Area: 9397
Amount: 4.570284
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:51:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

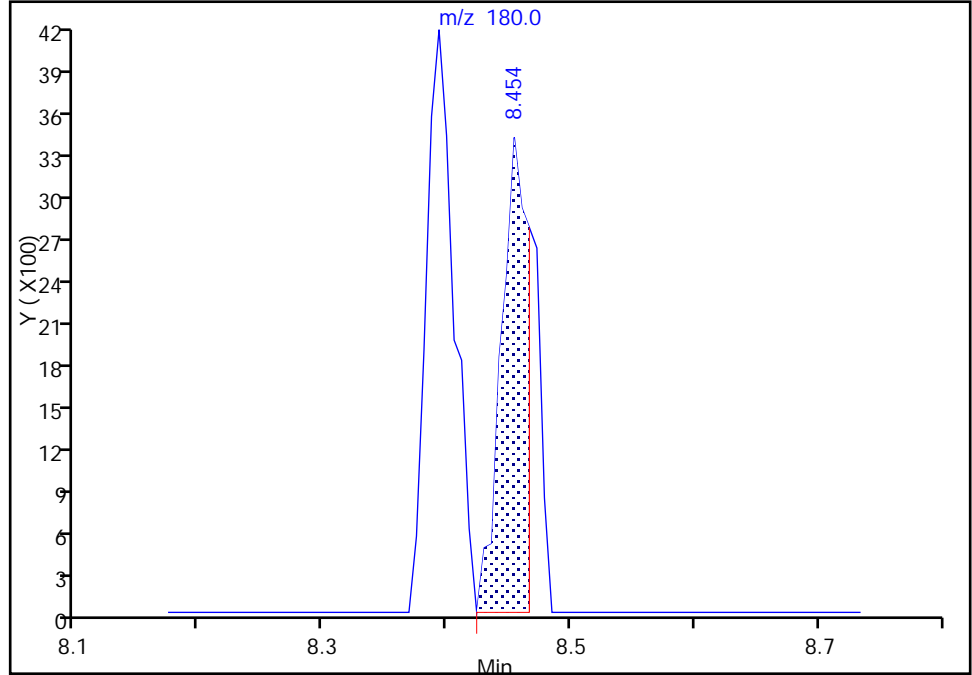
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

87 4-Chlorobenzotrifluoride, CAS: 98-56-6

Signal: 1

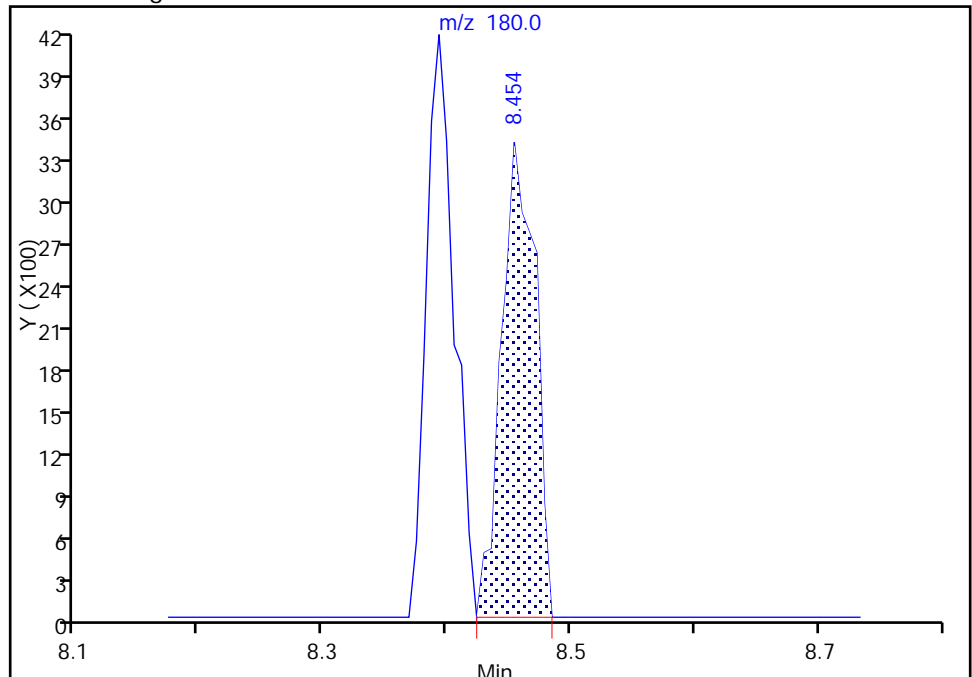
RT: 8.45
Area: 5134
Amount: 0.359407
Amount Units: ug/L

Processing Integration Results



RT: 8.45
Area: 6369
Amount: 0.435116
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:53:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

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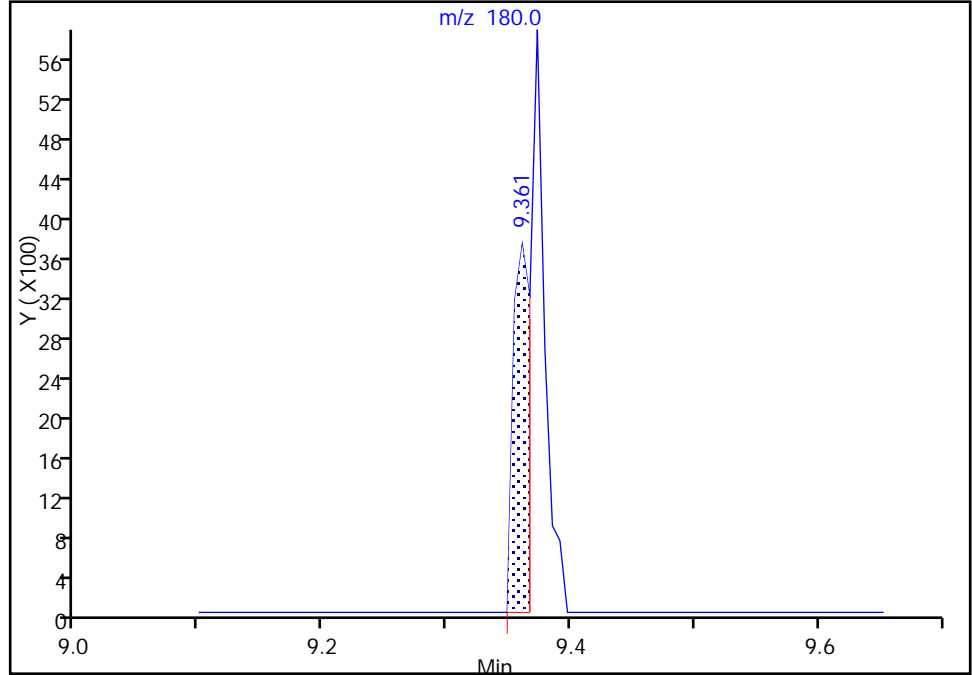
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Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

94 2-Chlorobenzotrifluoride, CAS: 88-16-4

Signal: 1

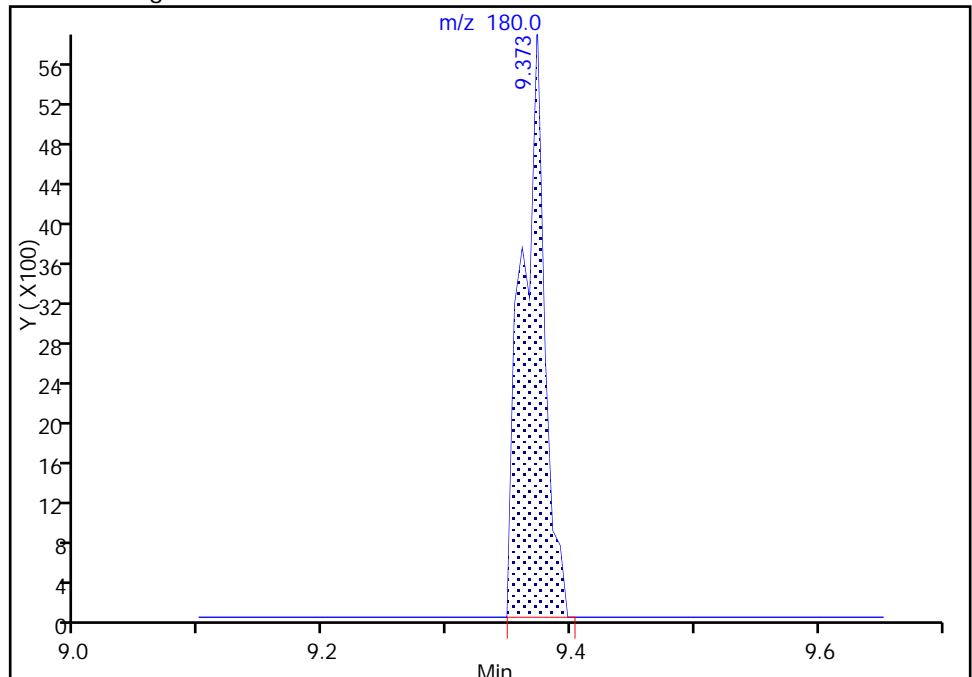
RT: 9.36
Area: 3627
Amount: 0.553707
Amount Units: ug/L

Processing Integration Results



RT: 9.37
Area: 7293
Amount: 0.435458
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:53:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

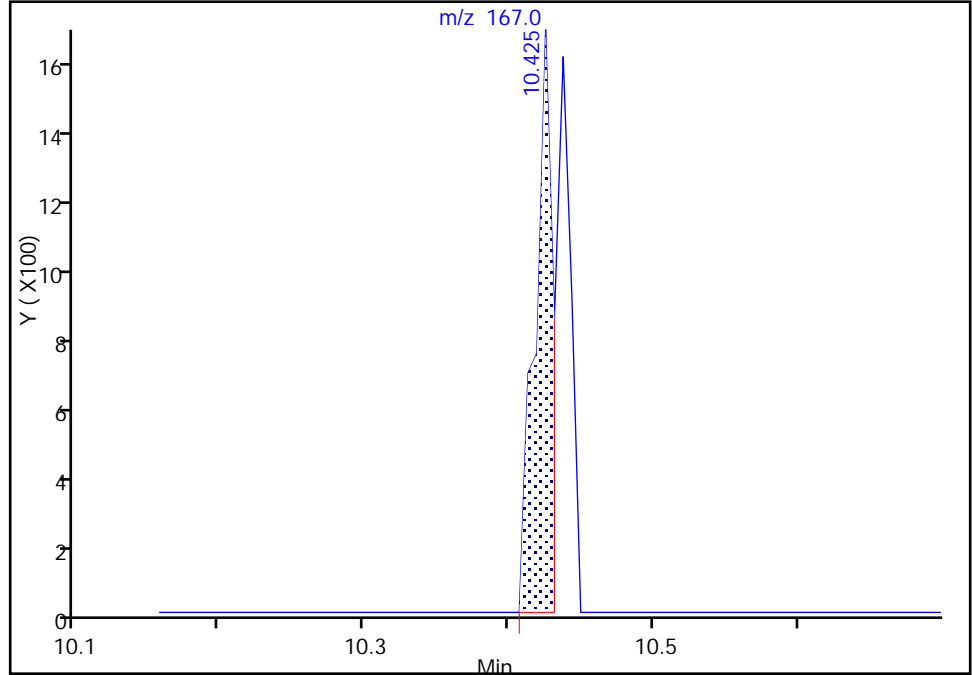
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Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

107 Pentachloroethane, CAS: 76-01-7

Signal: 1

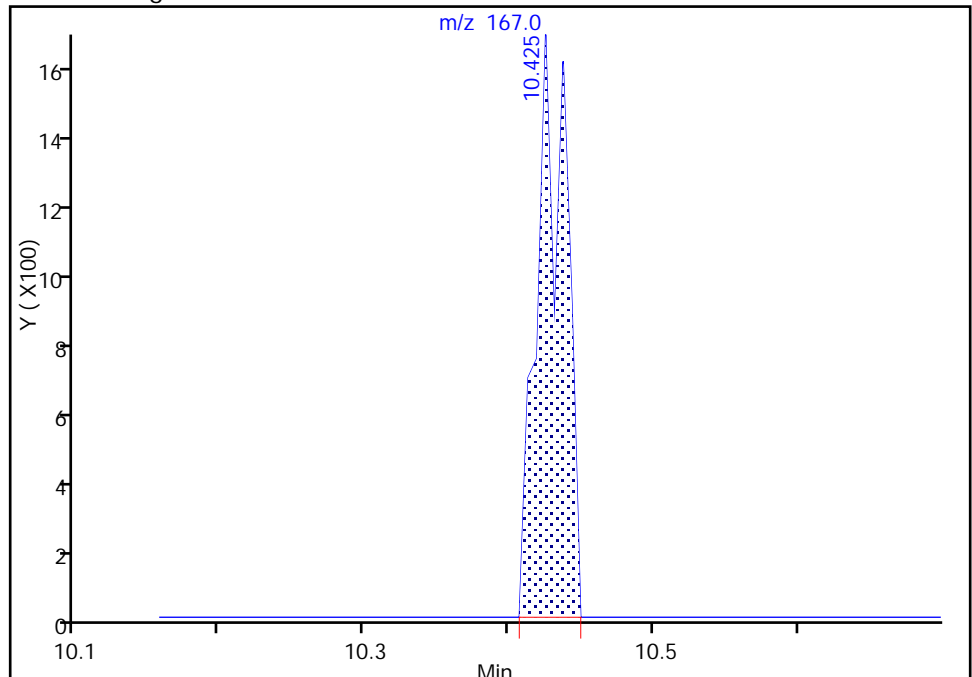
RT: 10.43
Area: 1460
Amount: 0.429421
Amount Units: ug/L

Processing Integration Results



RT: 10.43
Area: 2383
Amount: 0.650446
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:53:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

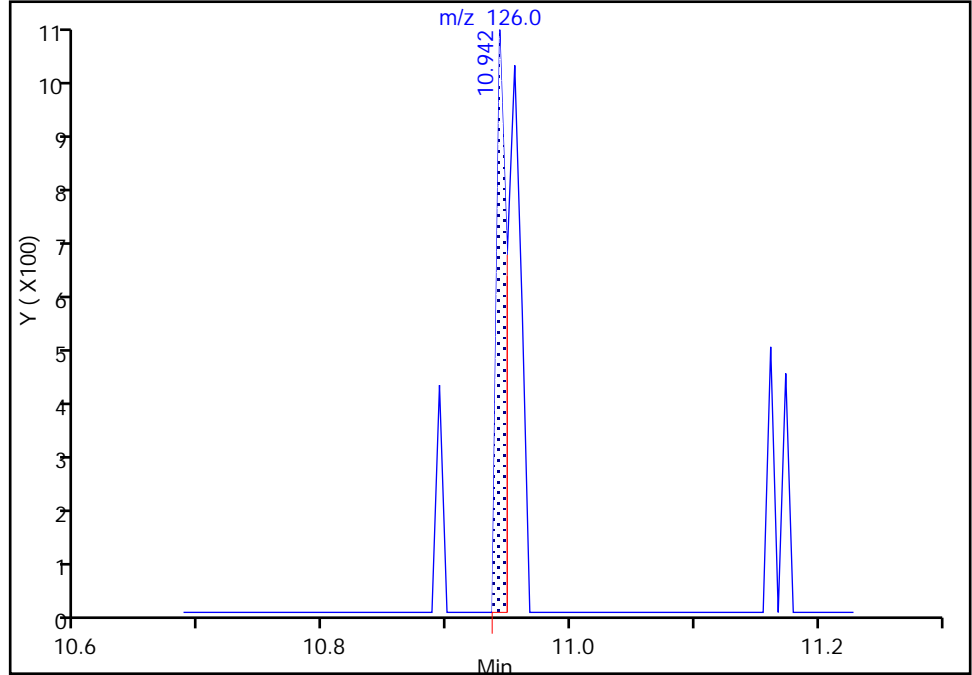
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

143 Benzyl chloride, CAS: 100-44-7

Signal: 1

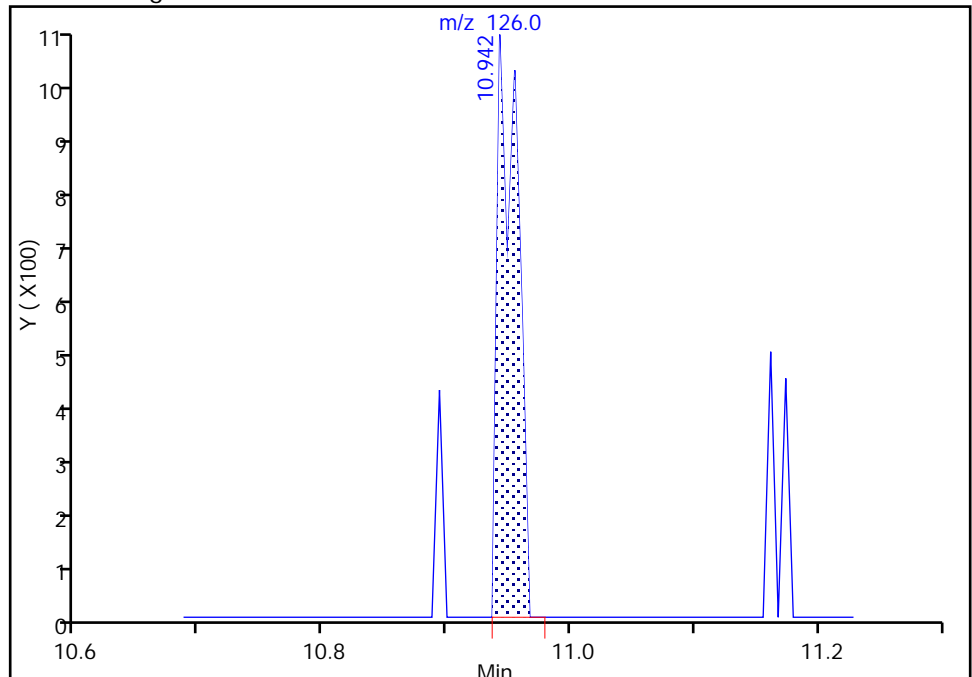
RT: 10.94
Area: 645
Amount: 0.190145
Amount Units: ug/L

Processing Integration Results



RT: 10.94
Area: 1226
Amount: 1.043666
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:54:52
Audit Action: Manually Integrated

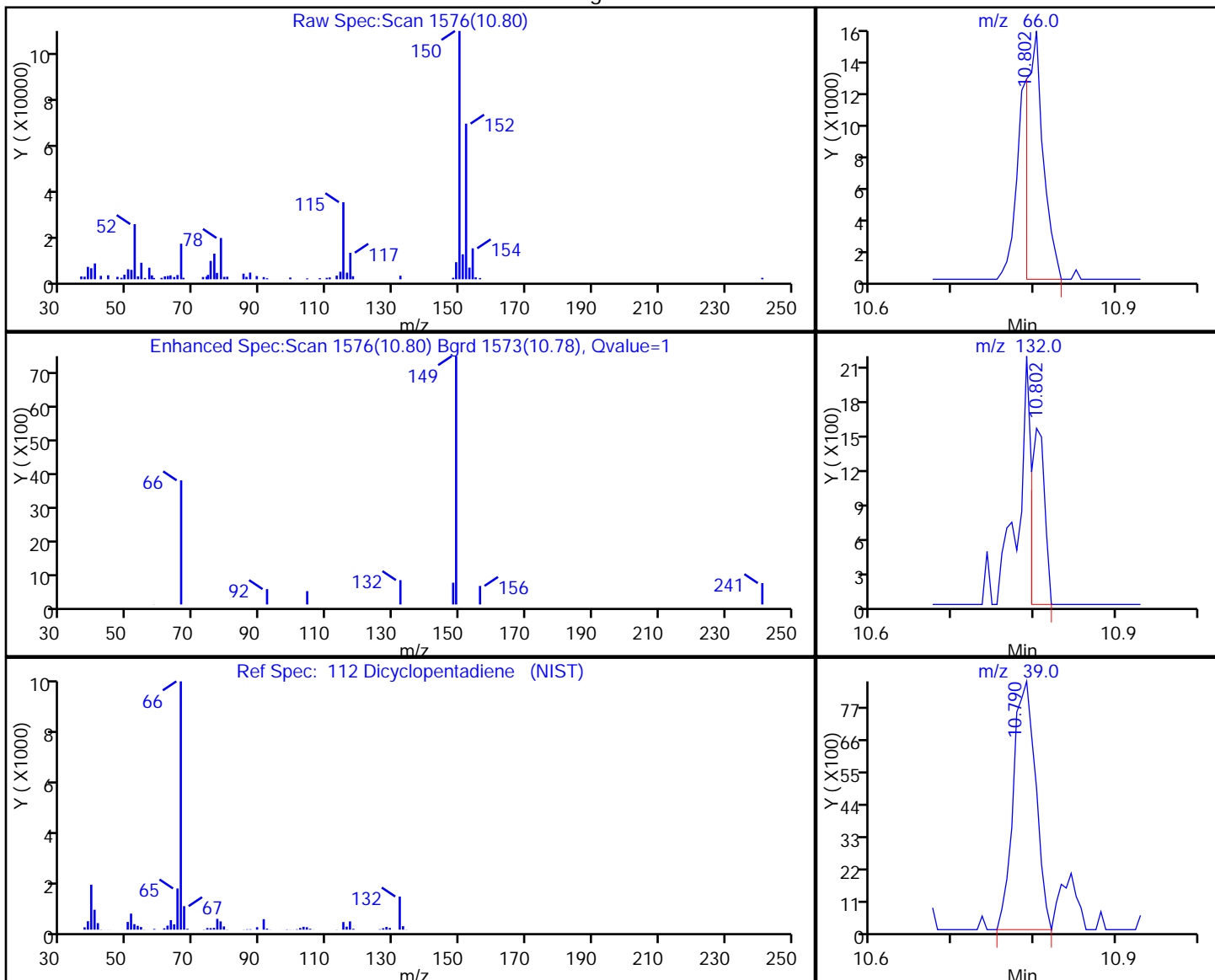
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D
 Injection Date: 31-Jan-2018 20:53:30 Instrument ID: HP5973N
 Lims ID: IC 8
 Client ID:
 Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

112 Dicyclopentadiene, CAS: 77-73-6

Processing Results



RT	Mass	Response	Amount
10.80	66.00	21830	0.389624
10.80	132.00	1758	
10.79	39.00	16175	

Reviewer: scibiliam, 01-Feb-2018 10:55:09
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6825.D

Injection Date: 31-Jan-2018 20:53:30

Instrument ID: HP5973N

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#: 19 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

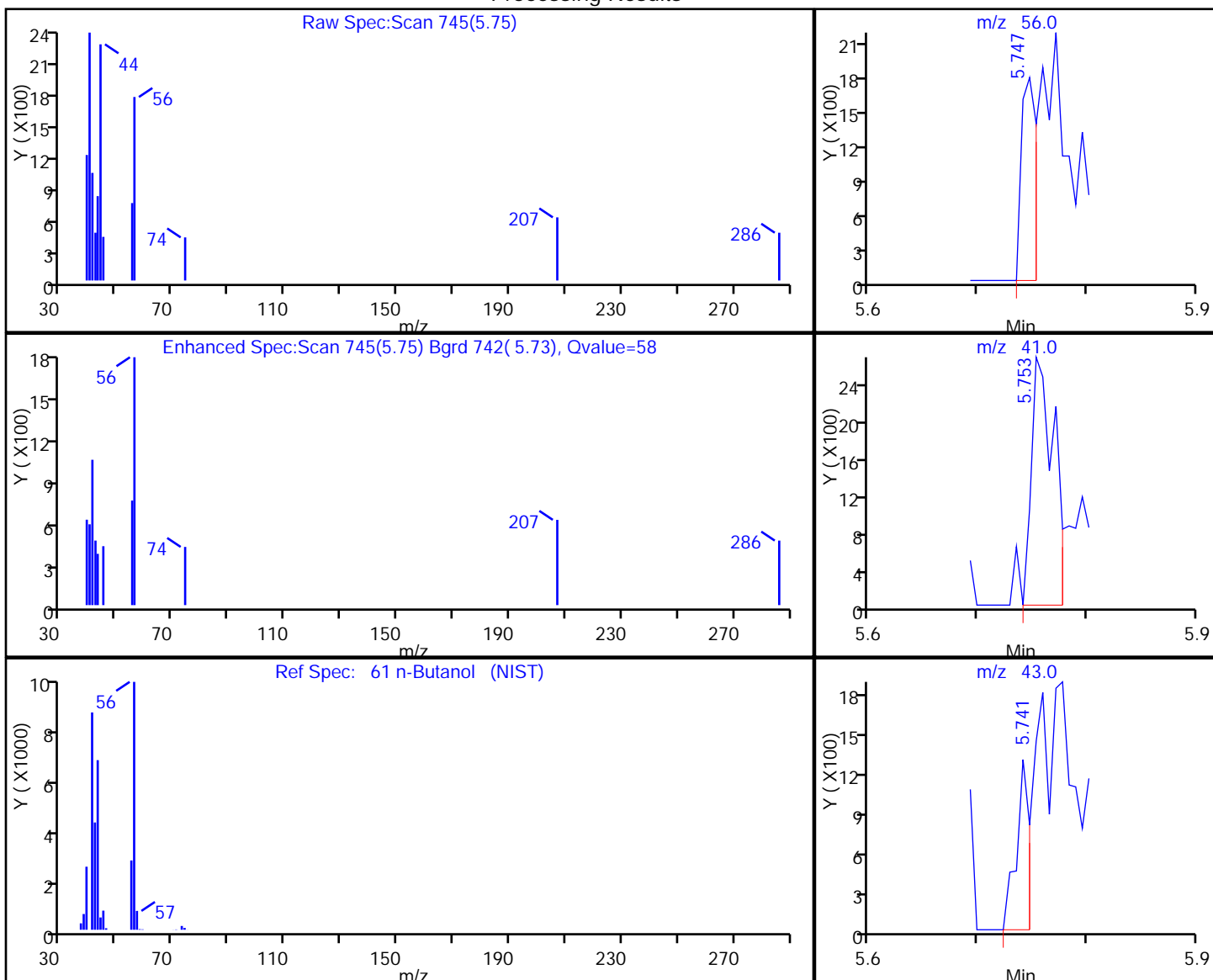
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
5.75	56.00	1674	16.089562
5.75	41.00	3761	
5.74	43.00	1079	

Reviewer: scibiliam, 01-Feb-2018 10:55:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 31-Jan-2018 21:20:30 ALS Bottle#: 20 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0068951-020
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:07:58 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibiliam

Date: 01-Feb-2018 11:00:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	209933	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	91	784351	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	397377	25.0	25.0	
12 Chlorodifluoromethane	51	1.355	1.348	0.006	95	17266	1.00	0.8598	
141 Ethanol	45	2.462	2.456	0.006	41	6228	40.0	34.5	Ma
81 Propene oxide	58	2.547	2.547	0.000	91	21866	NC	NC	a
26 Isopropyl alcohol	45	2.961	2.960	0.001	57	8694	10.0	7.06	
29 Acetonitrile	40	3.058	3.058	0.000	73	14742	10.0	8.93	M
37 Isopropyl ether	45	3.849	3.849	0.000	99	61856	1.00	0.8786	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	92	21857	1.00	0.7746	
40 1,1-Dimethoxyethane	75	3.916	3.910	0.006	94	10999	5.00	4.22	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	94	47307	1.00	0.8760	
45 Ethyl acetate	43	4.433	4.427	0.006	98	44576	2.00	1.85	
46 Propionitrile	54	4.469	4.463	0.006	96	27763	10.0	8.92	M
48 Methacrylonitrile	67	4.591	4.585	0.006	97	52218	10.0	8.93	
146 Isooctane	57	5.169	5.169	0.000	96	42669	1.00	0.7617	
140 t-Amyl alcohol	59	5.205	5.193	0.012	63	19038	10.0	9.90	M
58 Tert-amyl methyl ether	73	5.242	5.230	0.012	70	35740	1.00	0.8687	M
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	96	26000	1.00	0.7862	
61 n-Butanol	56	5.759	5.747	0.012	92	12635	25.0	20.8	M
145 Ethyl acrylate	55	5.869	5.862	0.007	97	24530	1.00	0.9063	
65 Methyl methacrylate	41	6.081	6.081	0.000	87	35338	2.00	1.74	
68 2-Nitropropane	43	6.489	6.489	0.000	93	10250	2.00	1.91	
70 Epichlorohydrin	57	6.629	6.617	0.012	94	17186	10.0	8.34	
74 2-Methylthiophene	97	7.110	7.109	0.001	97	30373	1.00	0.8641	
76 3-Methylthiophene	97	7.280	7.274	0.006	96	36070	1.00	0.9592	
149 n-Butyl acetate	43	7.785	7.785	0.000	96	38912	1.00	0.9853	
139 1-Chlorohexane	55	8.387	8.381	0.006	34	23751	1.00	1.28	
86 3-Chlorobenzotrifluoride	180	8.393	8.393	0.000	54	14033	1.00	0.9060	
87 4-Chlorobenzotrifluoride	180	8.460	8.460	0.000	91	11630	1.00	0.8092	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.367	9.366	0.001	94	14717	1.00	0.8949	
96 Cyclohexanone	55	9.598	9.592	0.006	37	5656	10.0	7.51	
103 3-Chlorotoluene	126	10.048	10.048	0.000	95	10784	1.00	0.8743	
107 Pentachloroethane	167	10.431	10.431	0.000	80	3173	1.00	0.8820	
112 Dicyclopentadiene	66	10.802	10.802	0.000	95	52181	1.00	0.9148	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	96	34719	1.00	0.8372	
143 Benzyl chloride	126	10.948	10.948	0.000	97	2579	1.00	1.33	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	93	12067	1.00	0.7583	
142 2-Methylnaphthalene	142	13.704	13.704	0.000	95	11455	1.00	0.7045	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 1.00	Units: uL
2MTP_WRK_00068	Amount Added: 1.00	Units: uL
3MTP_WRK_00069	Amount Added: 1.00	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D

Injection Date: 31-Jan-2018 21:20:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 9

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

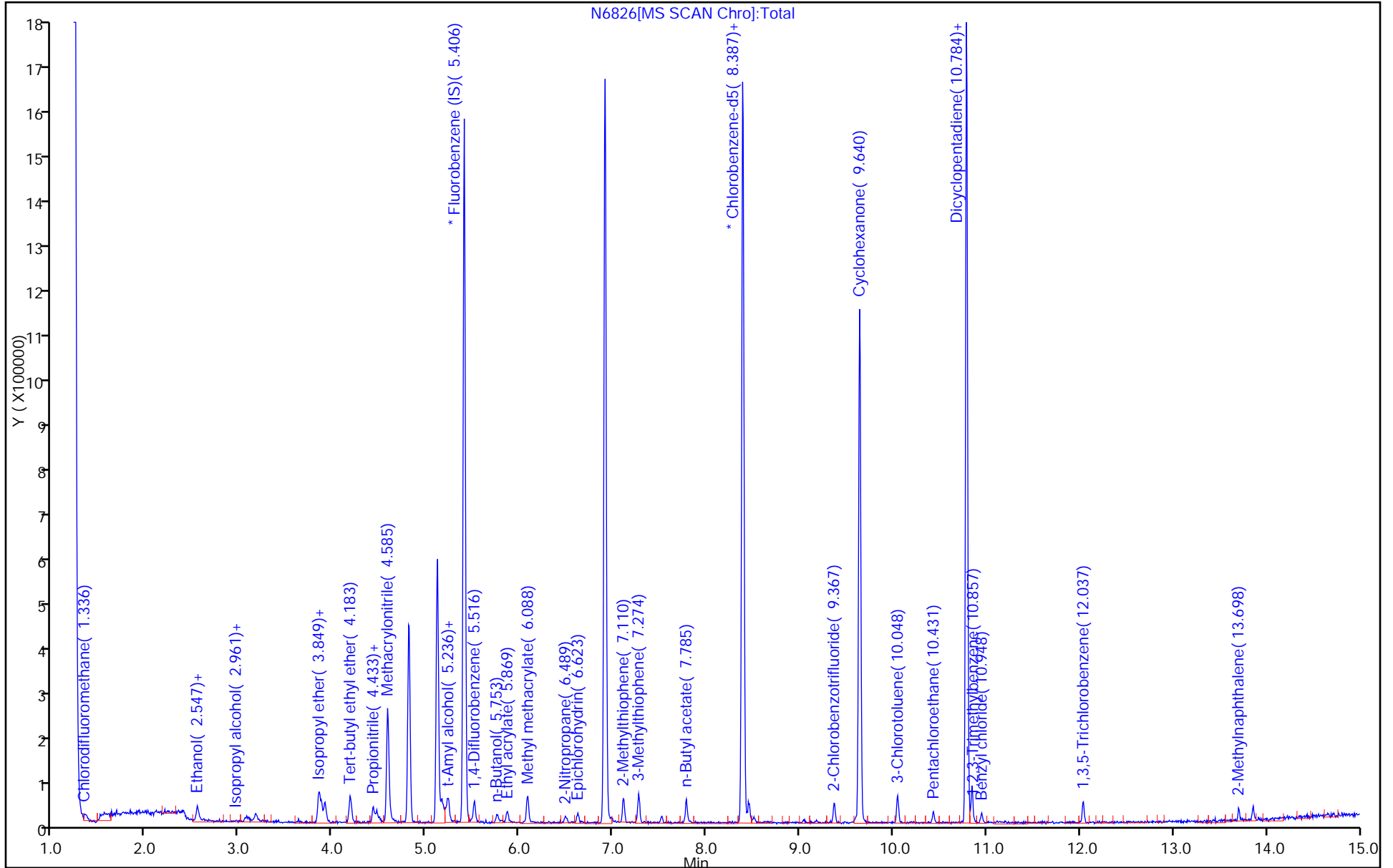
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

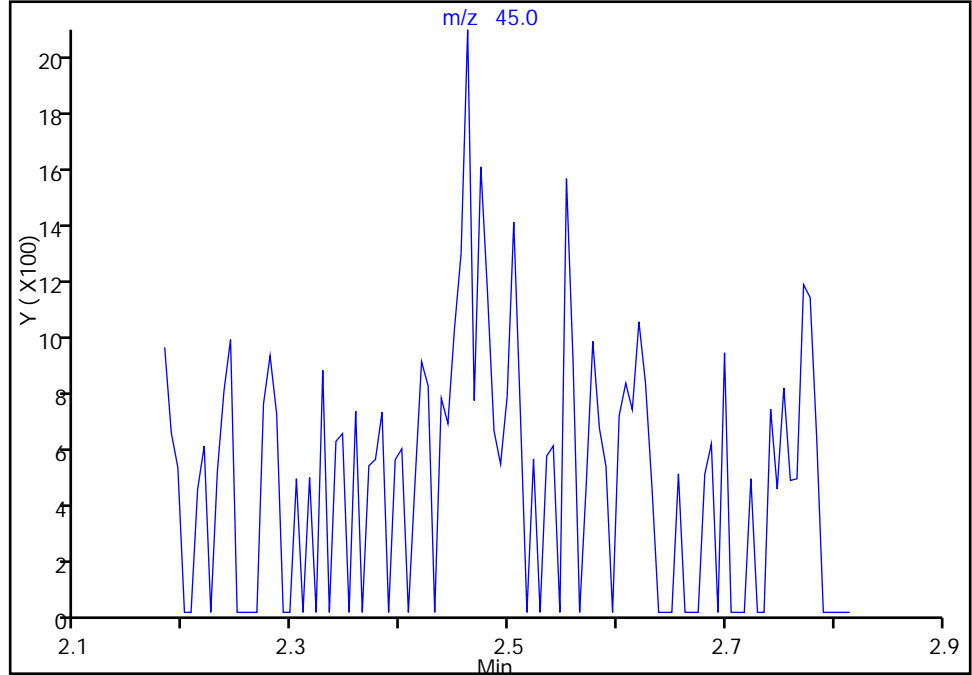
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
Injection Date: 31-Jan-2018 21:20:30 Instrument ID: HP5973N
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

141 Ethanol, CAS: 64-17-5

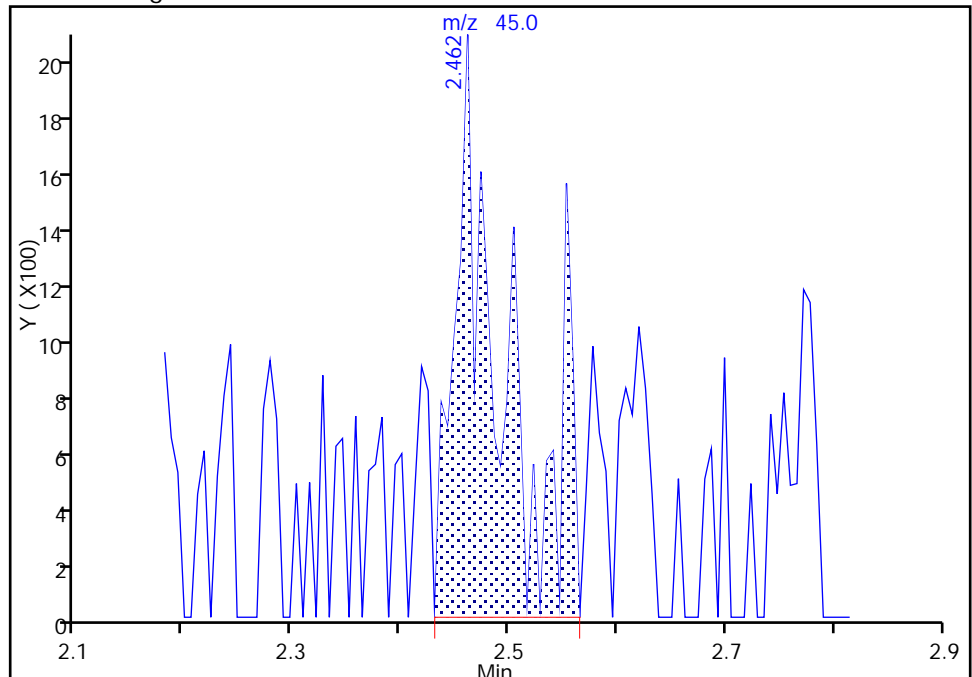
Signal: 1

Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results



RT: 2.46
Area: 6228
Amount: 34.455279
Amount Units: ug/L

Reviewer: scibiliam, 01-Feb-2018 10:56:11
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

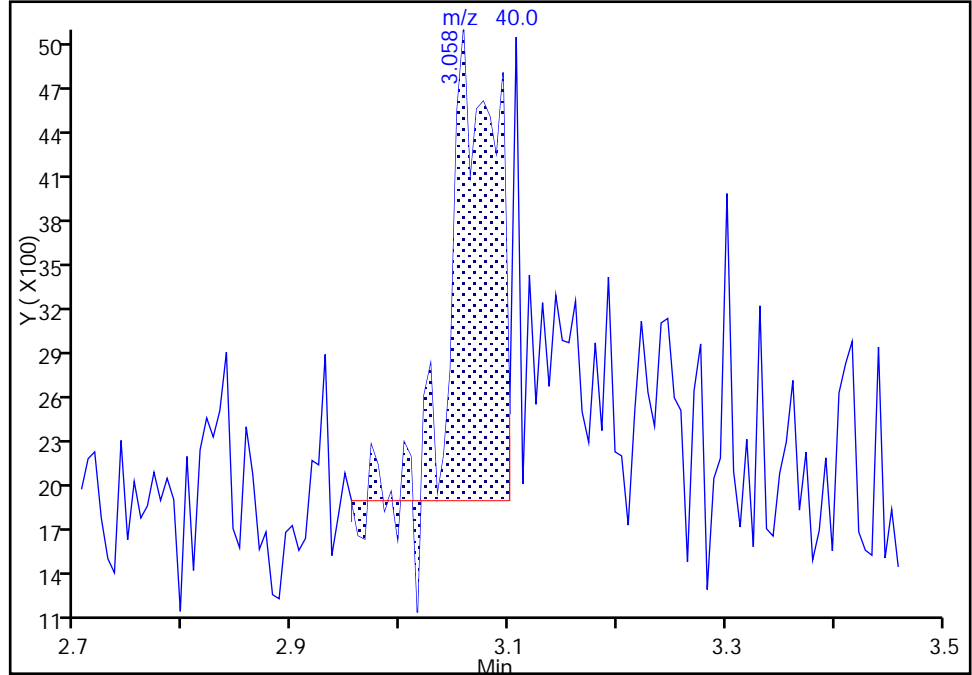
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
Injection Date: 31-Jan-2018 21:20:30 Instrument ID: HP5973N
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

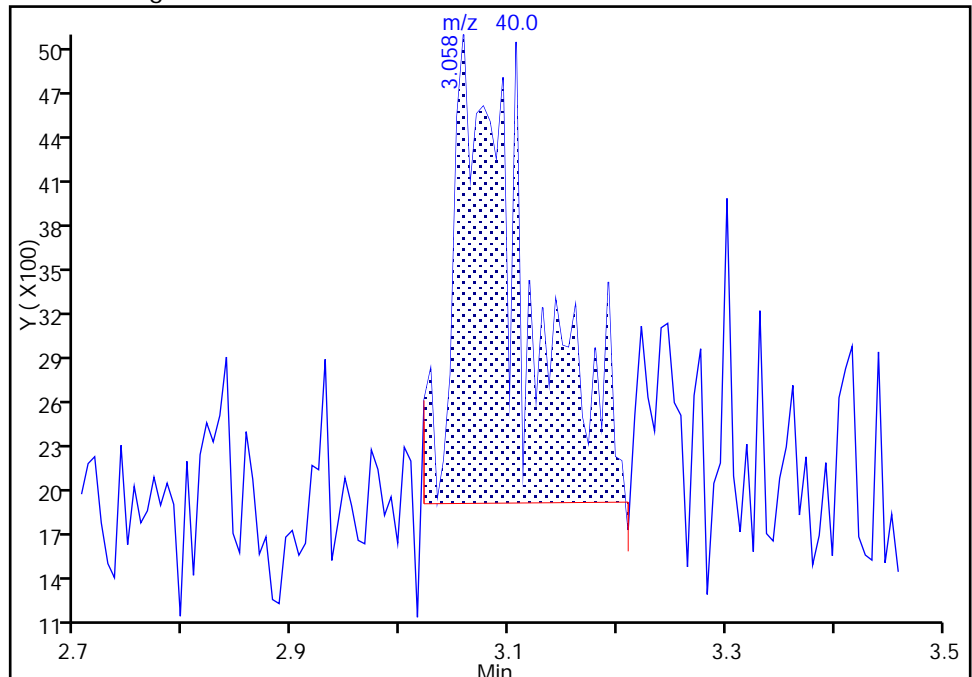
RT: 3.06
Area: 8776
Amount: 5.434148
Amount Units: ug/L

Processing Integration Results



RT: 3.06
Area: 14742
Amount: 8.931210
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:57:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

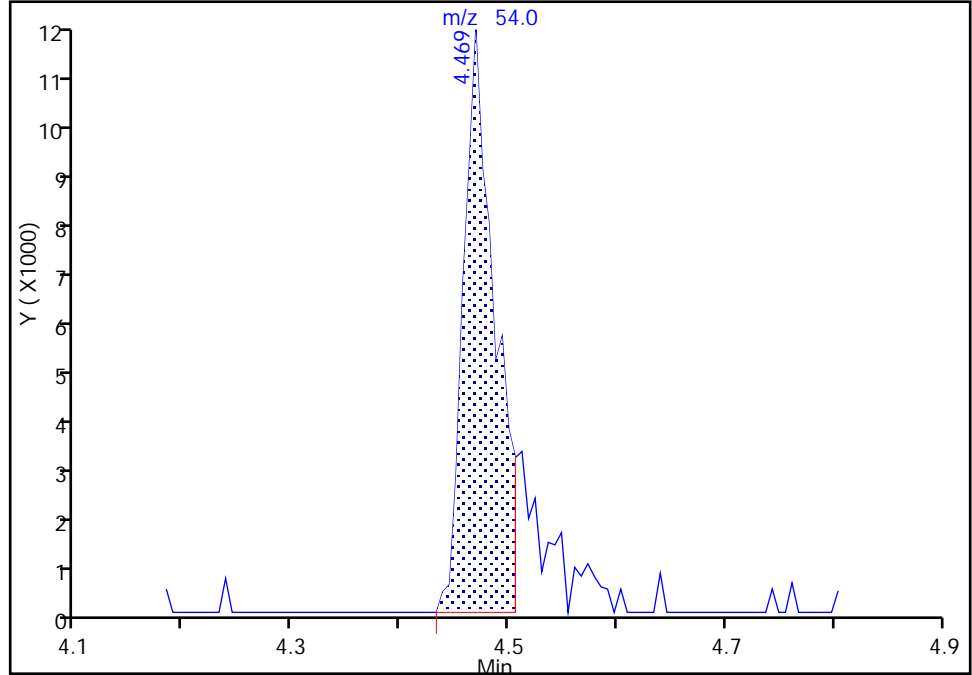
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
Injection Date: 31-Jan-2018 21:20:30 Instrument ID: HP5973N
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

46 Propionitrile, CAS: 107-12-0

Signal: 1

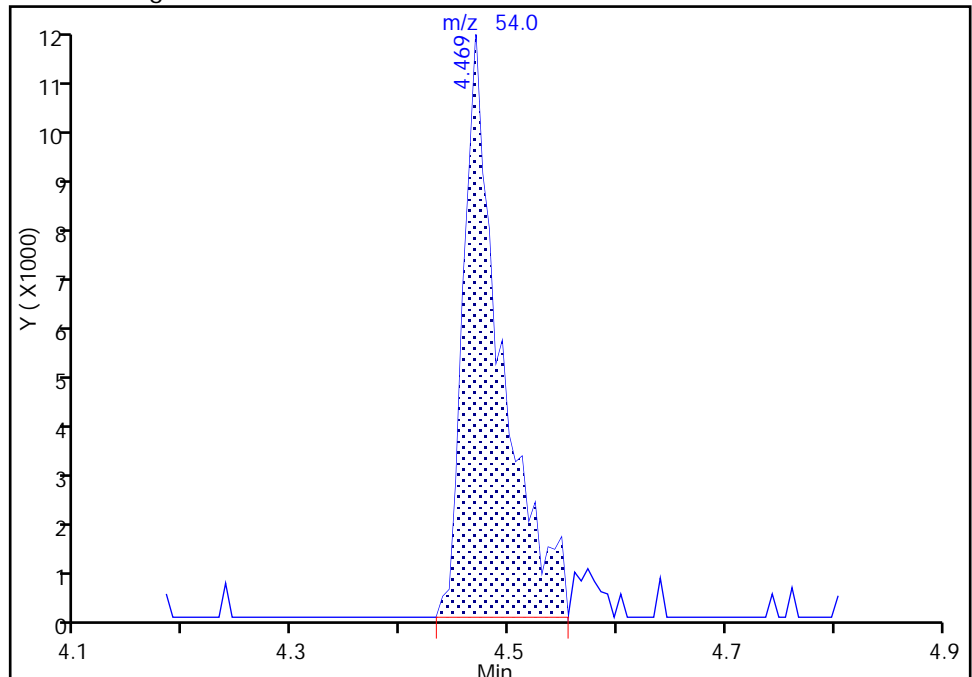
RT: 4.47
Area: 23262
Amount: 7.630482
Amount Units: ug/L

Processing Integration Results



RT: 4.47
Area: 27763
Amount: 8.918801
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 10:57:44
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

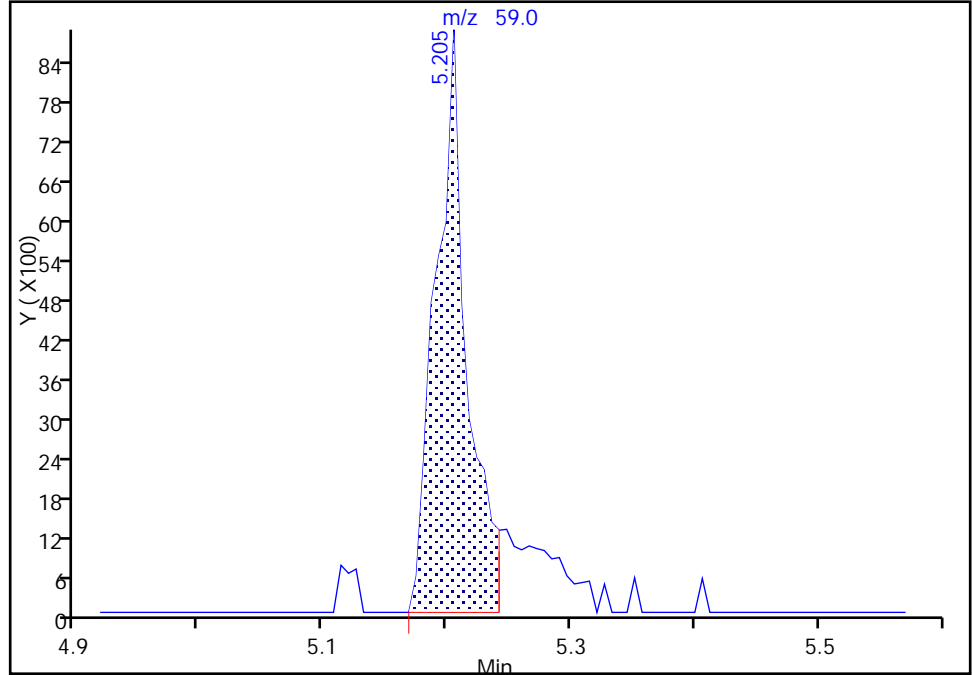
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
Injection Date: 31-Jan-2018 21:20:30 Instrument ID: HP5973N
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

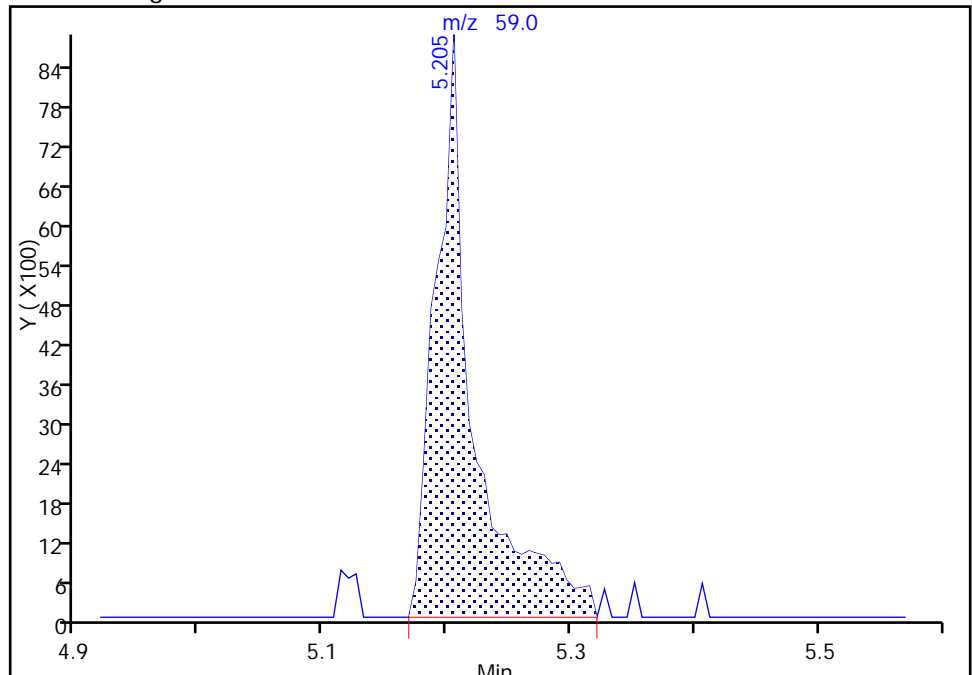
RT: 5.21
Area: 15508
Amount: 8.280087
Amount Units: ug/L

Processing Integration Results



RT: 5.21
Area: 19038
Amount: 9.898325
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 14:52:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

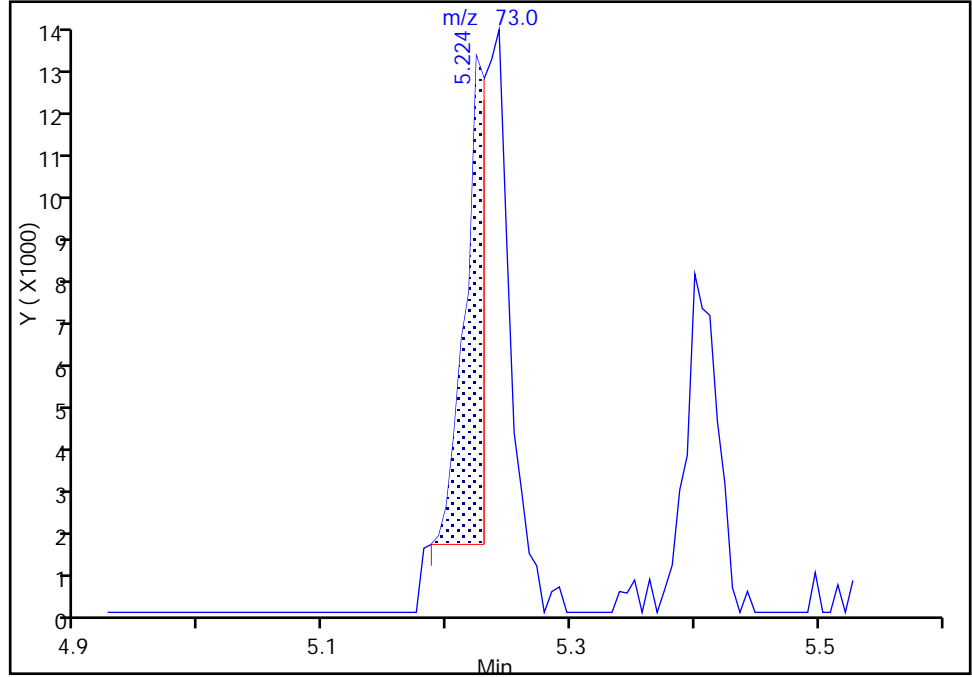
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
Injection Date: 31-Jan-2018 21:20:30 Instrument ID: HP5973N
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

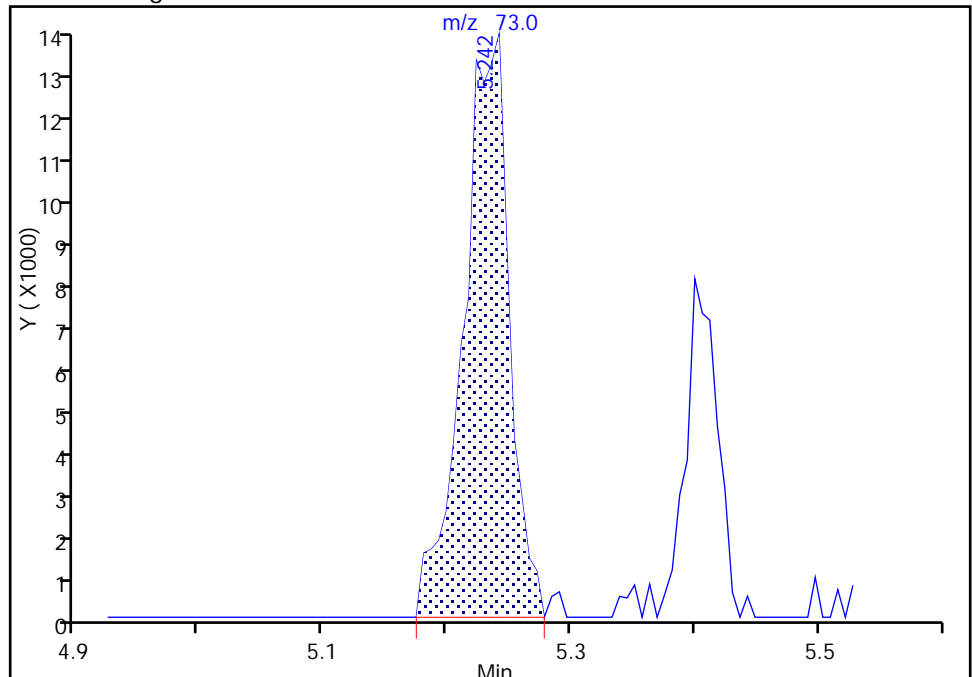
RT: 5.22
Area: 13697
Amount: 0.360531
Amount Units: ug/L

Processing Integration Results



RT: 5.24
Area: 35740
Amount: 0.868737
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:58:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

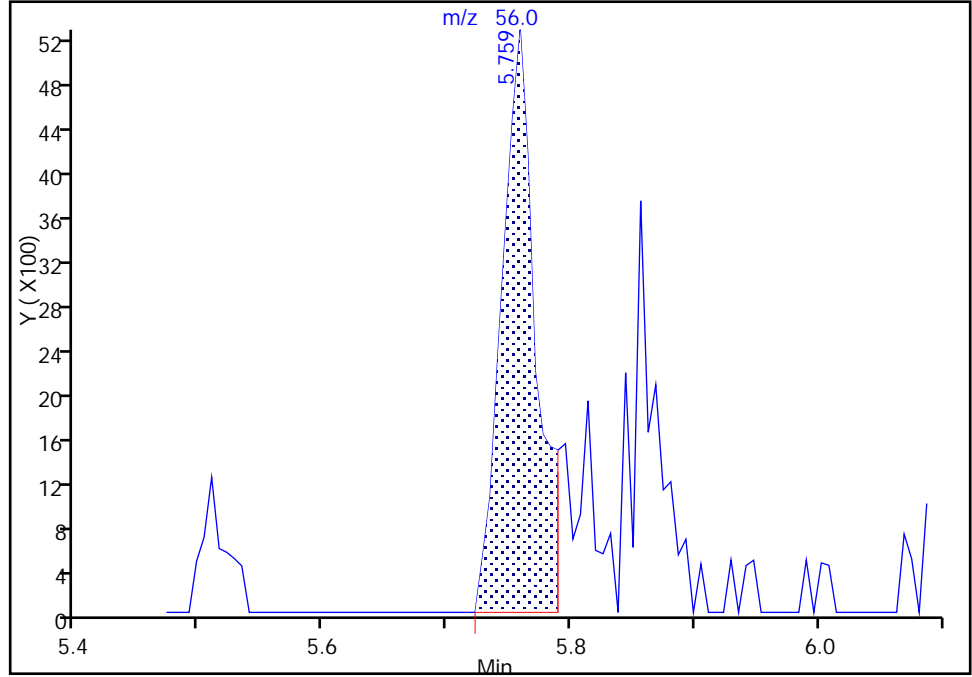
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6826.D
Injection Date: 31-Jan-2018 21:20:30 Instrument ID: HP5973N
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

Signal: 1

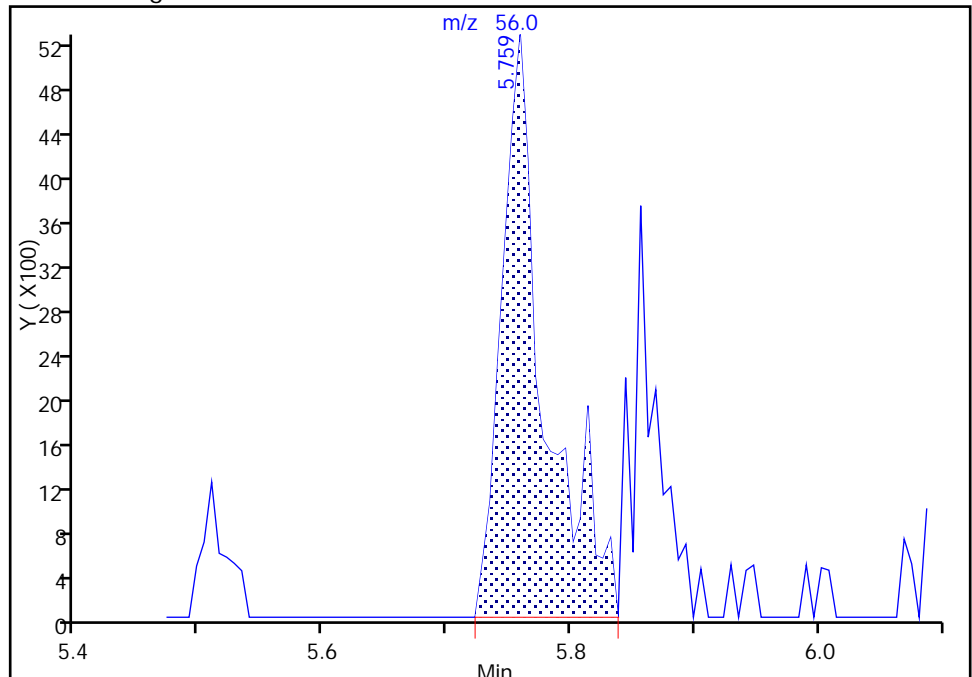
RT: 5.76
Area: 10163
Amount: 17.863188
Amount Units: ug/L

Processing Integration Results



RT: 5.76
Area: 12635
Amount: 20.797909
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:58:31
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6827.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 31-Jan-2018 21:47:30 ALS Bottle#: 21 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0068951-021
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:00 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam Date: 01-Feb-2018 11:06:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	211977	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	92	769073	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	406148	25.0	25.0	
12 Chlorodifluoromethane	51	1.349	1.348	0.001	97	96260	5.00	4.75	
141 Ethanol	45	2.456	2.456	0.000	91	26793	200.0	146.8	Ma
81 Propene oxide	58	2.547	2.547	0.000	95	113727	NC	NC	a
26 Isopropyl alcohol	45	2.961	2.960	0.001	97	52960	50.0	42.6	M
29 Acetonitrile	40	3.064	3.058	0.006	100	82565	50.0	49.5	
37 Isopropyl ether	45	3.849	3.849	0.000	96	317491	5.00	4.47	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	92	131973	5.00	4.63	
40 1,1-Dimethoxyethane	75	3.916	3.910	0.006	97	61752	25.0	23.5	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	96	244833	5.00	4.49	
45 Ethyl acetate	43	4.427	4.427	0.000	98	214824	10.0	8.81	
46 Propionitrile	54	4.463	4.463	0.000	98	141838	50.0	45.1	
48 Methacrylonitrile	67	4.585	4.585	0.000	97	272151	50.0	46.1	
146 Isooctane	57	5.163	5.169	-0.006	97	278746	5.00	4.93	
140 t-Amyl alcohol	59	5.199	5.193	0.006	80	83634	50.0	43.1	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	90	192908	5.00	4.64	
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	97	156708	5.00	4.69	
61 n-Butanol	56	5.753	5.747	0.006	94	61314	125.0	100.0	M
145 Ethyl acrylate	55	5.863	5.862	0.001	98	121128	5.00	4.43	
65 Methyl methacrylate	41	6.082	6.081	0.001	88	185247	10.0	9.05	
68 2-Nitropropane	43	6.495	6.489	0.006	98	46062	10.0	8.38	
70 Epichlorohydrin	57	6.617	6.617	0.000	98	94695	50.0	45.5	
74 2-Methylthiophene	97	7.110	7.109	0.001	98	157662	5.00	4.39	
76 3-Methylthiophene	97	7.274	7.274	0.000	99	184985	5.00	4.81	
149 n-Butyl acetate	43	7.779	7.785	-0.006	96	177711	5.00	4.59	
139 1-Chlorohexane	55	8.381	8.381	0.000	78	86761	5.00	4.75	
86 3-Chlorobenzotrifluoride	180	8.399	8.393	0.006	58	77125	5.00	4.87	
87 4-Chlorobenzotrifluoride	180	8.460	8.460	0.000	94	72619	5.00	4.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.373	9.366	0.007	97	80889	5.00	4.81	
96 Cyclohexanone	55	9.598	9.592	0.006	93	37982	50.0	49.3	
103 3-Chlorotoluene	126	10.048	10.048	0.000	96	58366	5.00	4.63	
107 Pentachloroethane	167	10.425	10.431	-0.006	84	16609	5.00	4.52	
112 Dicyclopentadiene	66	10.802	10.802	0.000	97	259708	5.00	4.45	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	198357	5.00	4.68	
143 Benzyl chloride	126	10.948	10.948	0.000	99	15925	5.00	4.28	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	96	76197	5.00	4.69	
142 2-Methylnaphthalene	142	13.704	13.704	0.000	93	63607	5.00	3.83	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 5.00	Units: uL
2MTP_WRK_00068	Amount Added: 5.00	Units: uL
3MTP_WRK_00069	Amount Added: 5.00	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6827.D

Injection Date: 31-Jan-2018 21:47:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 10

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

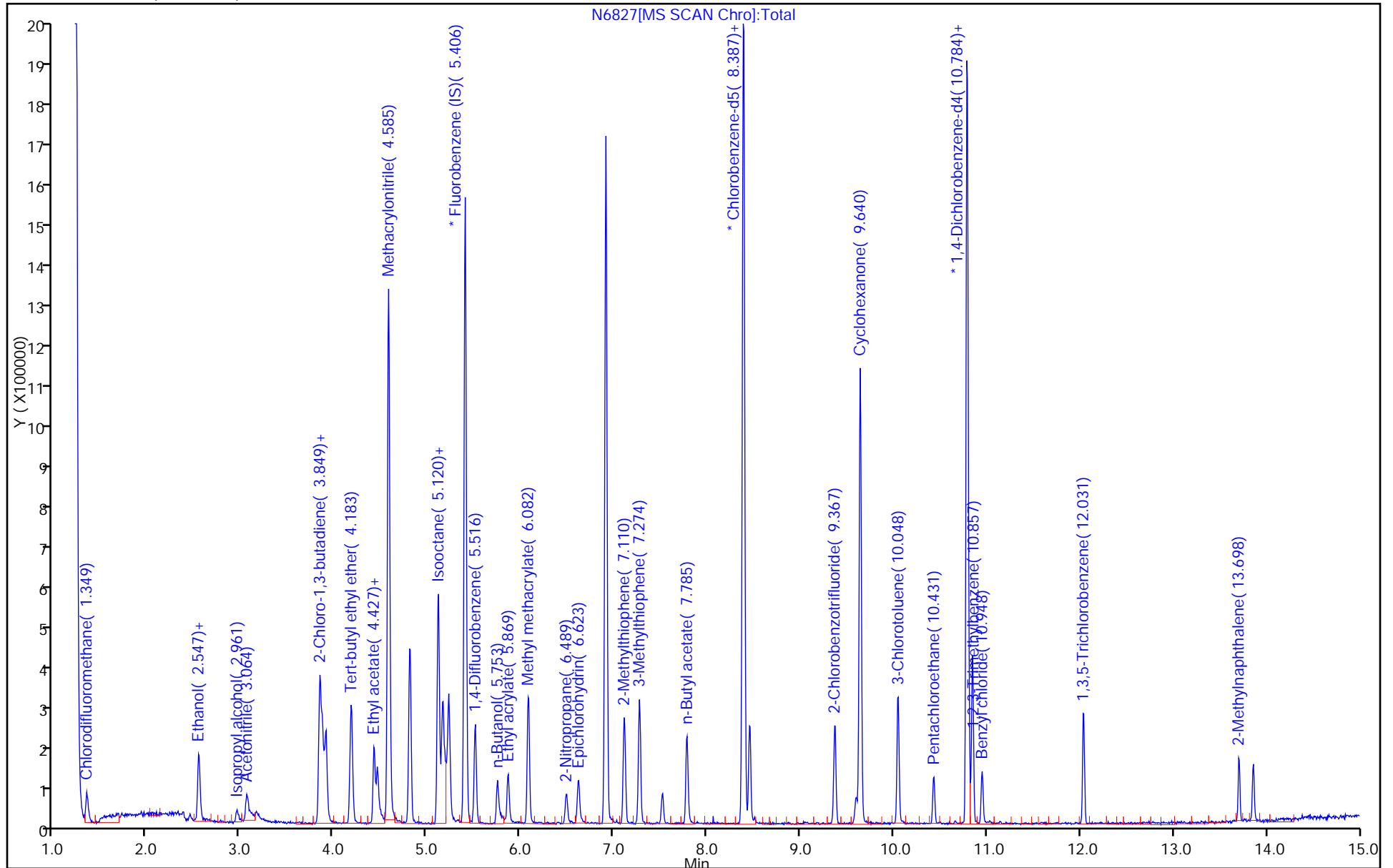
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

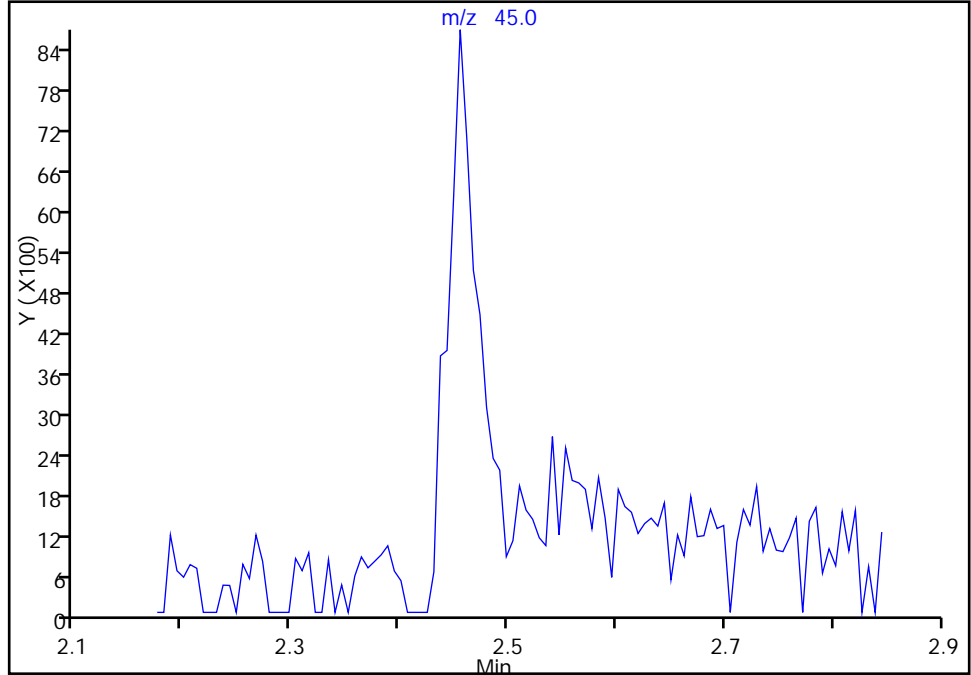
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6827.D
Injection Date: 31-Jan-2018 21:47:30 Instrument ID: HP5973N
Lims ID: IC 10
Client ID:
Operator ID: LH ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

141 Ethanol, CAS: 64-17-5

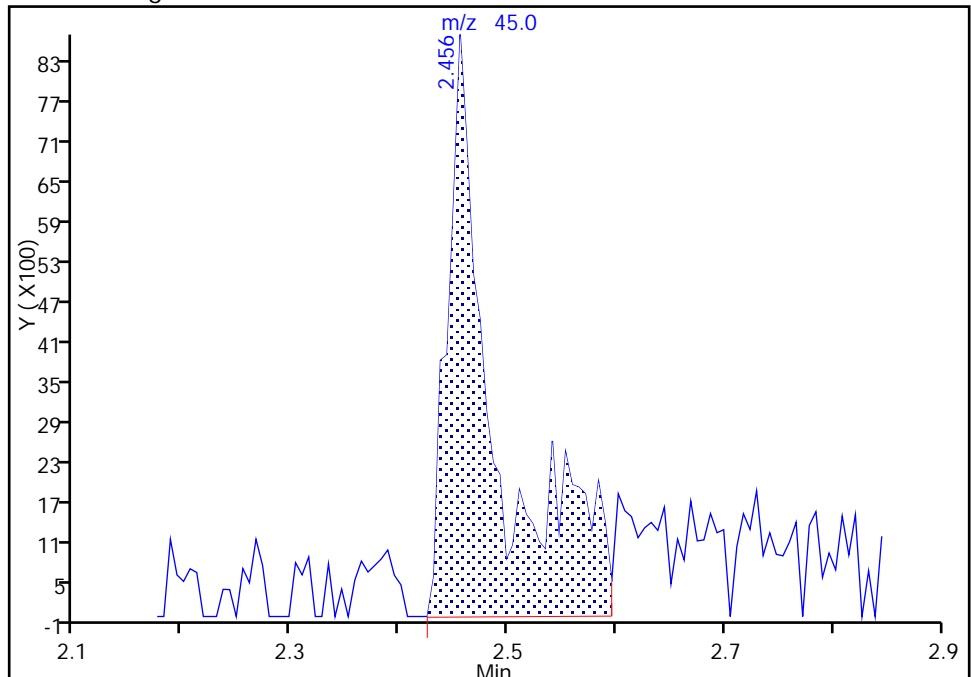
Signal: 1

Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results



RT: 2.46
Area: 26793
Amount: 146.7981
Amount Units: ug/L

TestAmerica Buffalo

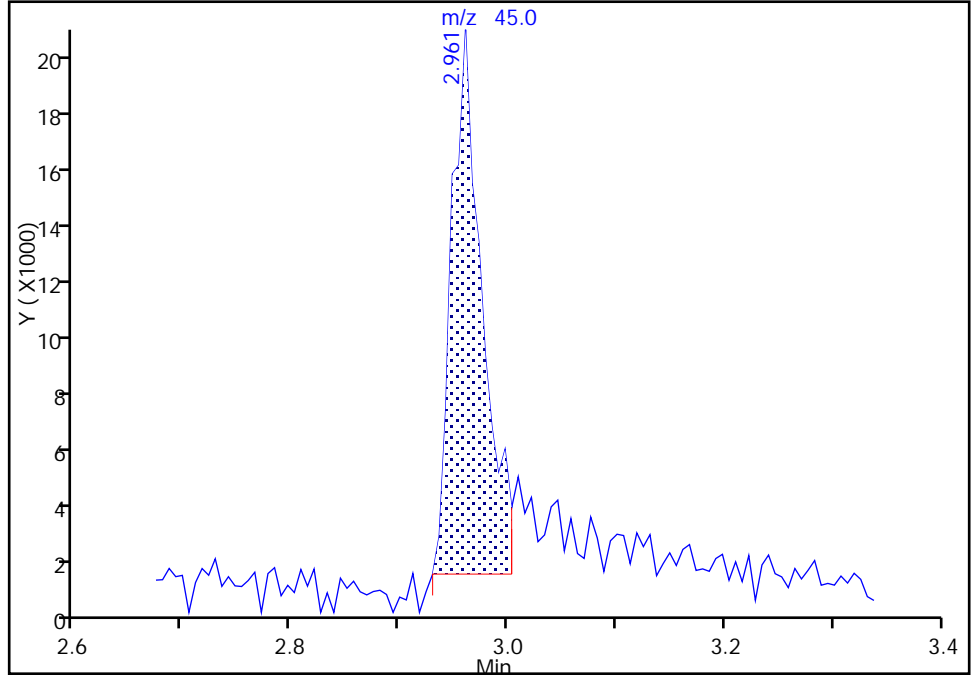
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6827.D
Injection Date: 31-Jan-2018 21:47:30 Instrument ID: HP5973N
Lims ID: IC 10
Client ID:
Operator ID: LH ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

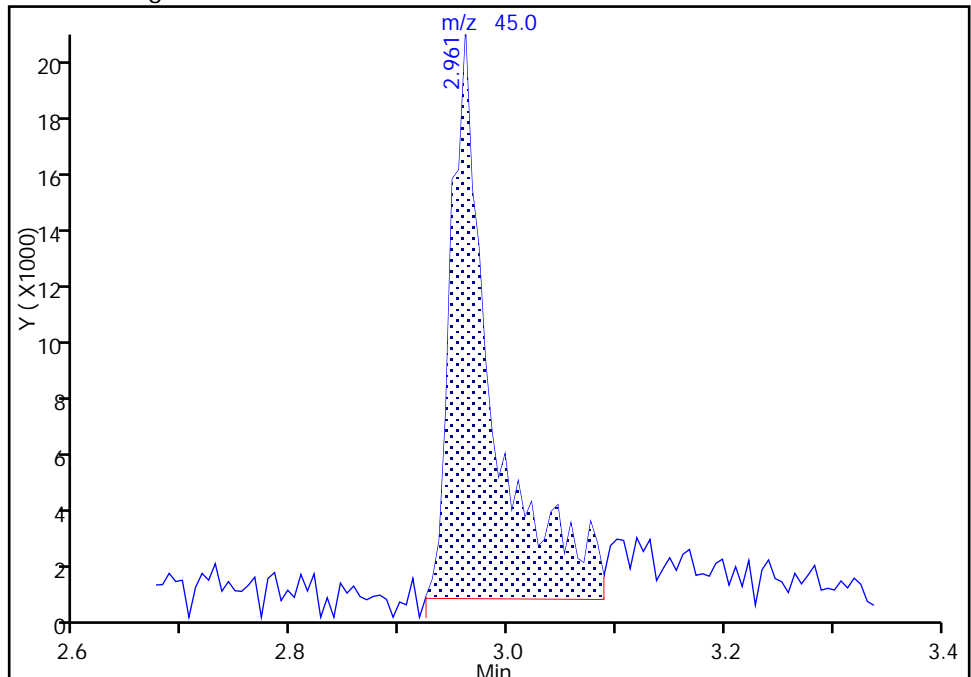
RT: 2.96
Area: 37610
Amount: 35.558517
Amount Units: ug/L

Processing Integration Results



RT: 2.96
Area: 52960
Amount: 42.609113
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 11:03:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

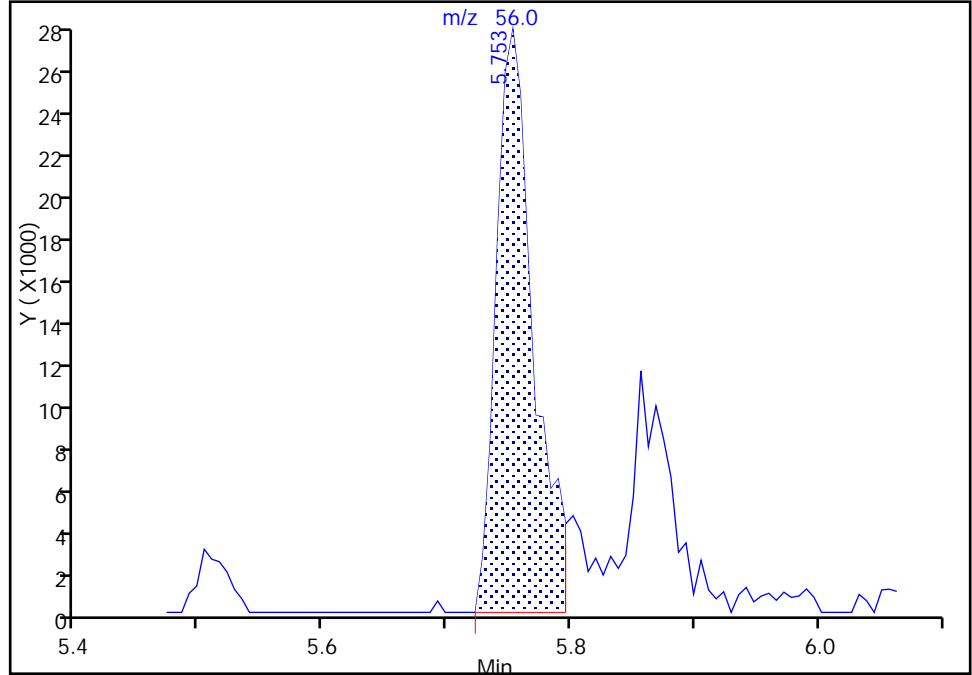
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6827.D
Injection Date: 31-Jan-2018 21:47:30 Instrument ID: HP5973N
Lims ID: IC 10
Client ID:
Operator ID: LH ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

Signal: 1

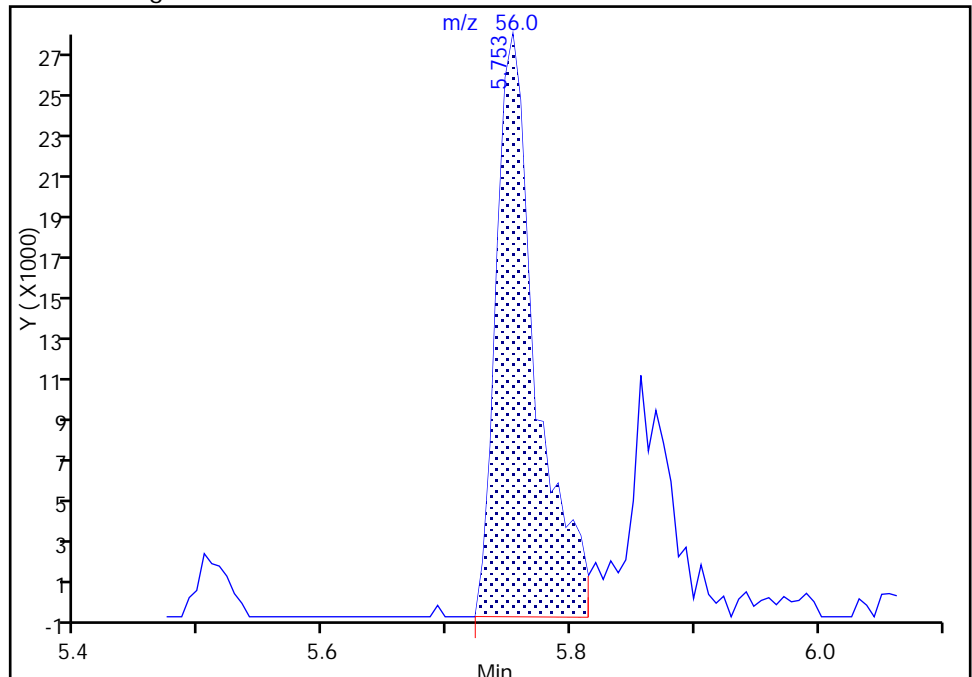
RT: 5.75
Area: 57510
Amount: 97.290668
Amount Units: ug/L

Processing Integration Results



RT: 5.75
Area: 61314
Amount: 99.953050
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 11:05:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6828.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 31-Jan-2018 22:14:30 ALS Bottle#: 22 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0068951-022
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:01 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 13:46:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	205009	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	93	760320	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	417506	25.0	25.0	
12 Chlorodifluoromethane	51	1.348	1.348	0.000	96	195680	10.0	9.98	
141 Ethanol	45	2.462	2.462	0.000	96	78691	400.0	445.8	M
81 Propene oxide	58	2.547	2.547	0.000	95	239537	NC	NC	a
26 Isopropyl alcohol	45	2.961	2.961	0.000	98	122439	100.0	101.9	M
29 Acetonitrile	40	3.070	3.070	0.000	99	159433	100.0	98.9	M
37 Isopropyl ether	45	3.849	3.849	0.000	96	668549	10.0	9.72	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	92	269243	10.0	9.77	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	95	126913	50.0	49.9	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	96	526882	10.0	10.0	
45 Ethyl acetate	43	4.427	4.427	0.000	98	468172	20.0	19.8	
46 Propionitrile	54	4.463	4.463	0.000	99	306026	100.0	100.7	
48 Methacrylonitrile	67	4.585	4.585	0.000	97	581604	100.0	101.9	
146 Isooctane	57	5.163	5.163	0.000	96	535986	10.0	9.80	
140 t-Amyl alcohol	59	5.199	5.199	0.000	80	184212	100.0	98.1	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	87	398025	10.0	9.91	
1 1,4-Difluorobenzene	114	5.510	5.510	0.000	97	325976	10.0	10.1	
61 n-Butanol	56	5.753	5.753	0.000	92	138486	250.0	233.4	M
145 Ethyl acrylate	55	5.869	5.869	0.000	98	261522	10.0	9.89	
65 Methyl methacrylate	41	6.081	6.081	0.000	87	393144	20.0	19.9	
68 2-Nitropropane	43	6.489	6.489	0.000	98	93789	20.0	16.6	
70 Epichlorohydrin	57	6.617	6.617	0.000	98	196313	100.0	97.5	
74 2-Methylthiophene	97	7.110	7.110	0.000	99	386437	10.0	10.5	
76 3-Methylthiophene	97	7.274	7.274	0.000	98	402312	10.0	10.2	
149 n-Butyl acetate	43	7.779	7.779	0.000	96	368292	10.0	9.62	
139 1-Chlorohexane	55	8.381	8.381	0.000	81	157688	10.0	8.74	
86 3-Chlorobenzotrifluoride	180	8.393	8.393	0.000	91	148056	10.0	9.10	
87 4-Chlorobenzotrifluoride	180	8.454	8.454	0.000	95	140365	10.0	9.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.367	9.367	0.000	95	157948	10.0	9.14	
96 Cyclohexanone	55	9.598	9.598	0.000	94	70750	100.0	89.4	
103 3-Chlorotoluene	126	10.048	10.048	0.000	96	122489	10.0	9.45	
107 Pentachloroethane	167	10.437	10.437	0.000	85	35335	10.0	9.35	
112 Dicyclopentadiene	66	10.802	10.802	0.000	97	535938	10.0	8.94	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	426385	10.0	9.79	
143 Benzyl chloride	126	10.948	10.948	0.000	99	33623	10.0	8.25	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	96	161045	10.0	9.63	
142 2-Methylnaphthalene	142	13.698	13.698	0.000	90	151307	10.0	8.86	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 5.00	Units: uL
2MTP_WRK_00068	Amount Added: 5.00	Units: uL
3MTP_WRK_00069	Amount Added: 5.00	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6828.D

Injection Date: 31-Jan-2018 22:14:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 11

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

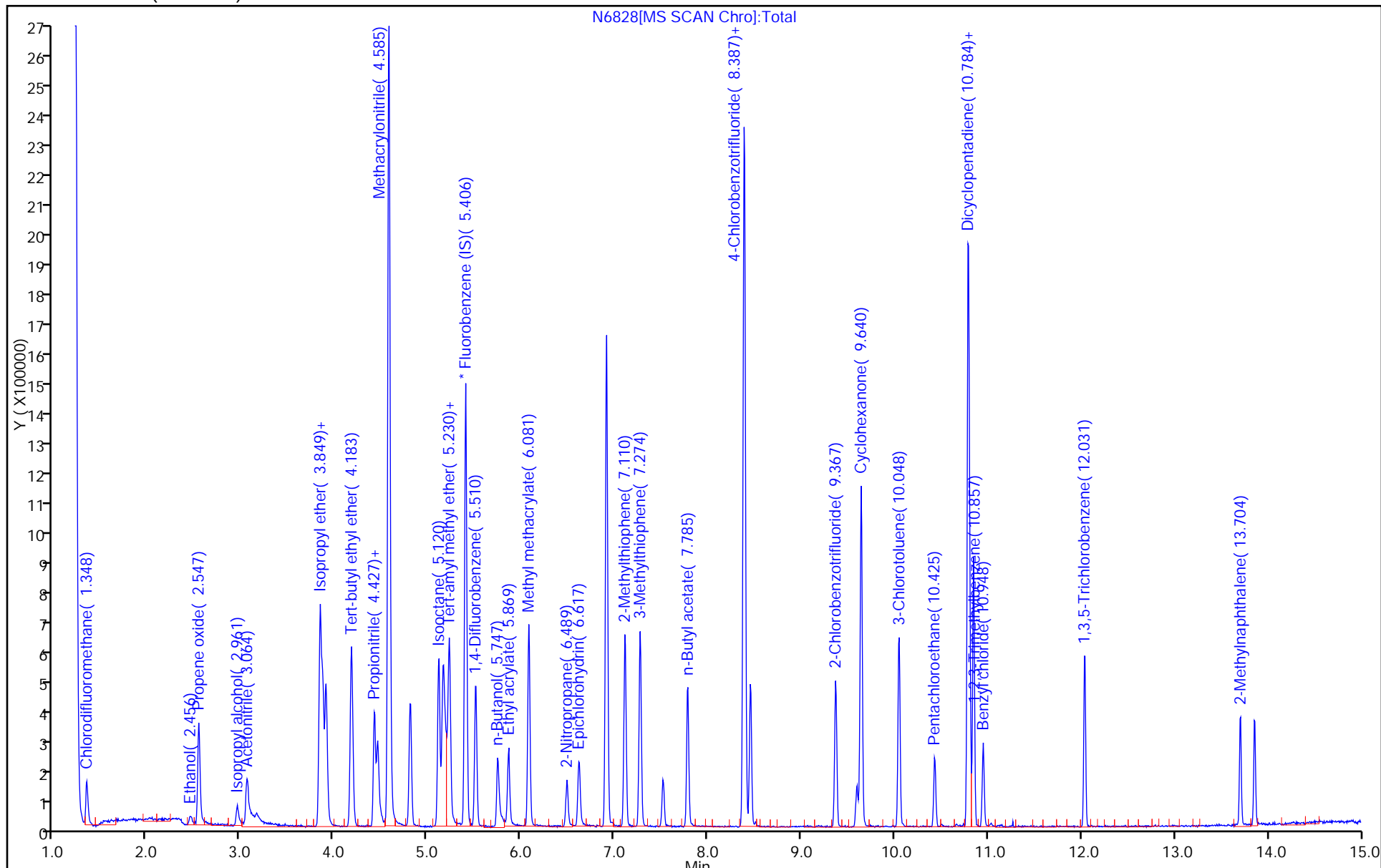
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

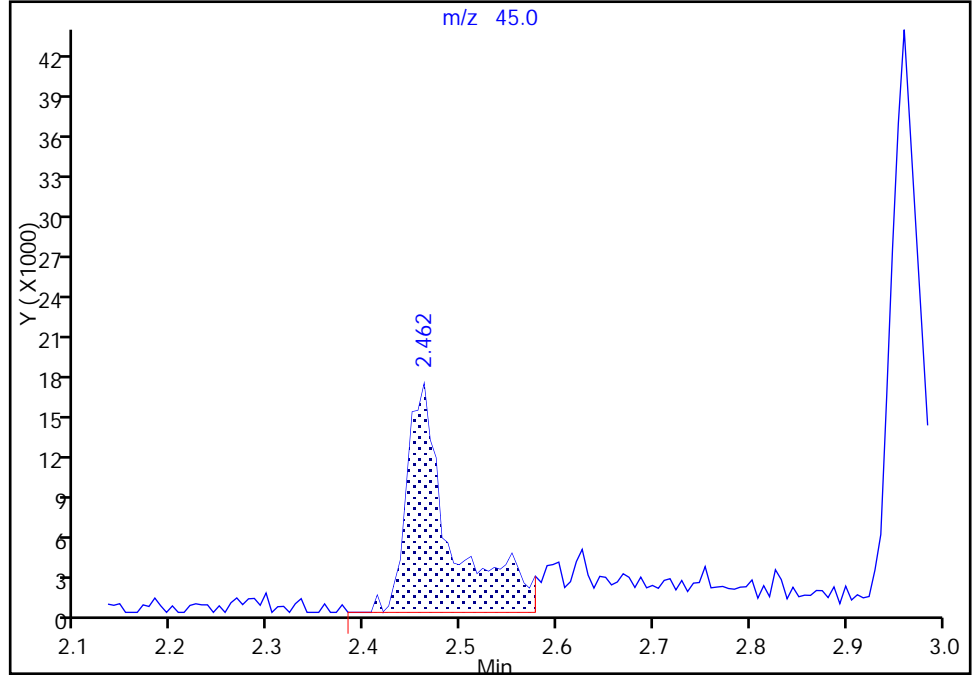
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6828.D
Injection Date: 31-Jan-2018 22:14:30 Instrument ID: HP5973N
Lims ID: IC 11
Client ID:
Operator ID: LH ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

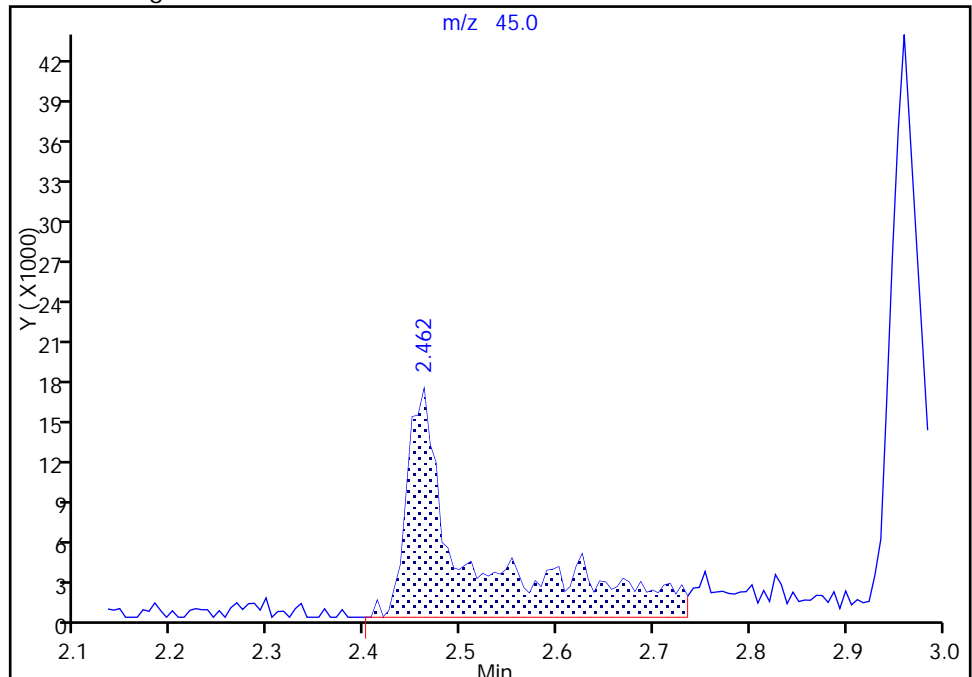
RT: 2.46
Area: 54436
Amount: 346.5466
Amount Units: ug/L

Processing Integration Results



RT: 2.46
Area: 78691
Amount: 445.8000
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:45:18
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

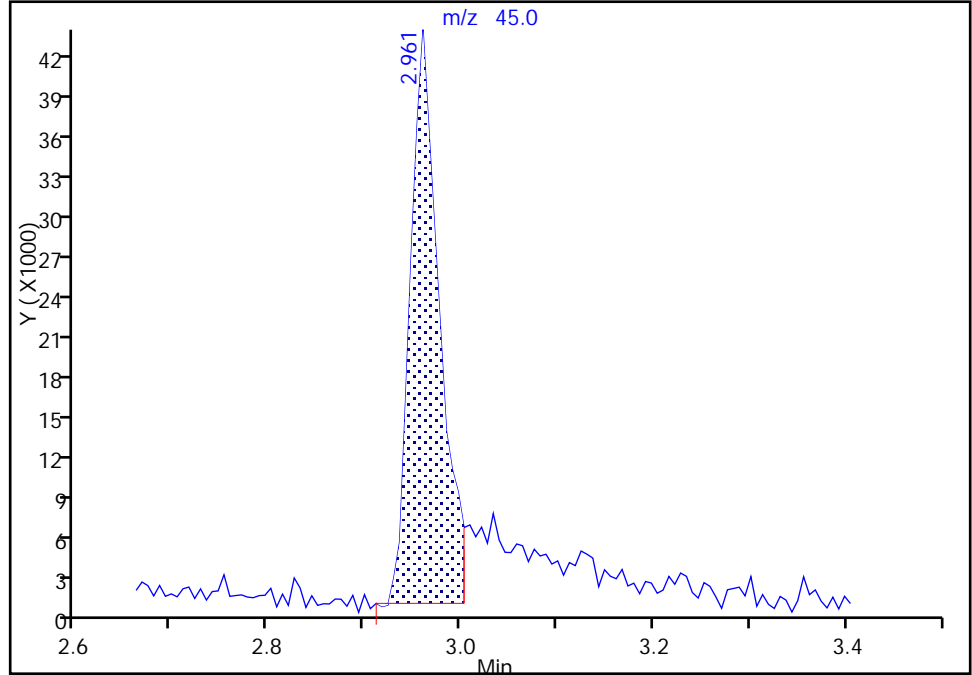
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6828.D
Injection Date: 31-Jan-2018 22:14:30 Instrument ID: HP5973N
Lims ID: IC 11
Client ID:
Operator ID: LH ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

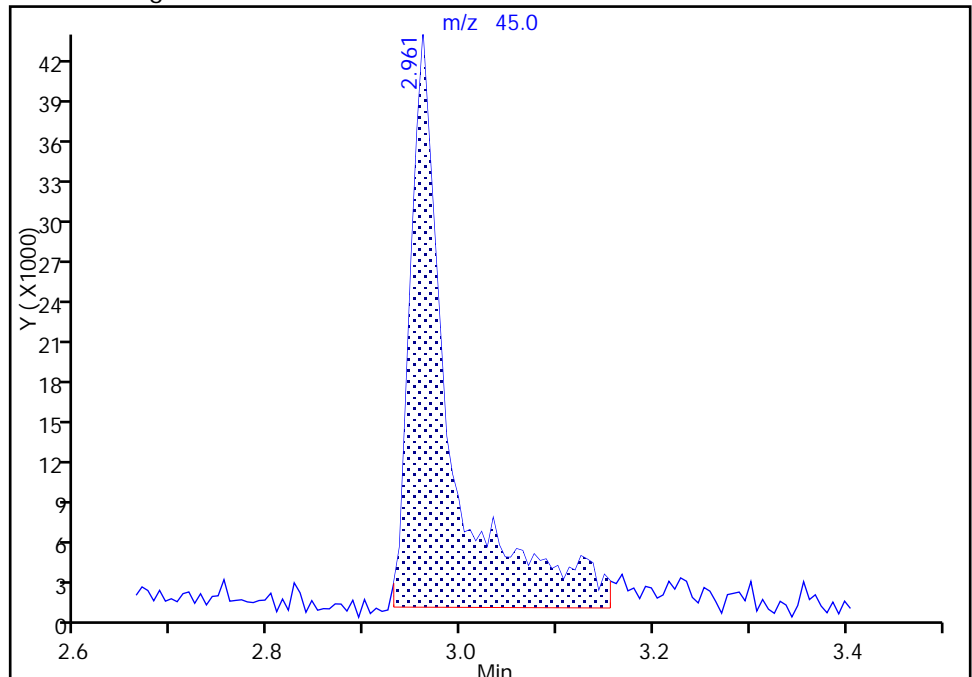
RT: 2.96
Area: 89040
Amount: 83.578897
Amount Units: ug/L

Processing Integration Results



RT: 2.96
Area: 122439
Amount: 101.8568
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:45:34
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

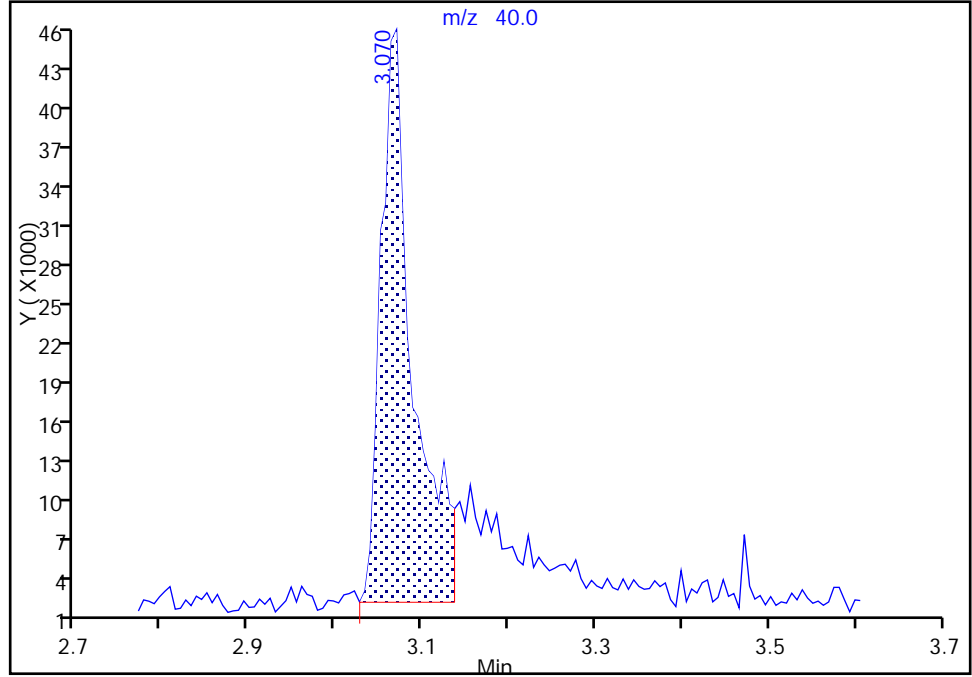
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6828.D
Injection Date: 31-Jan-2018 22:14:30 Instrument ID: HP5973N
Lims ID: IC 11
Client ID:
Operator ID: LH ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

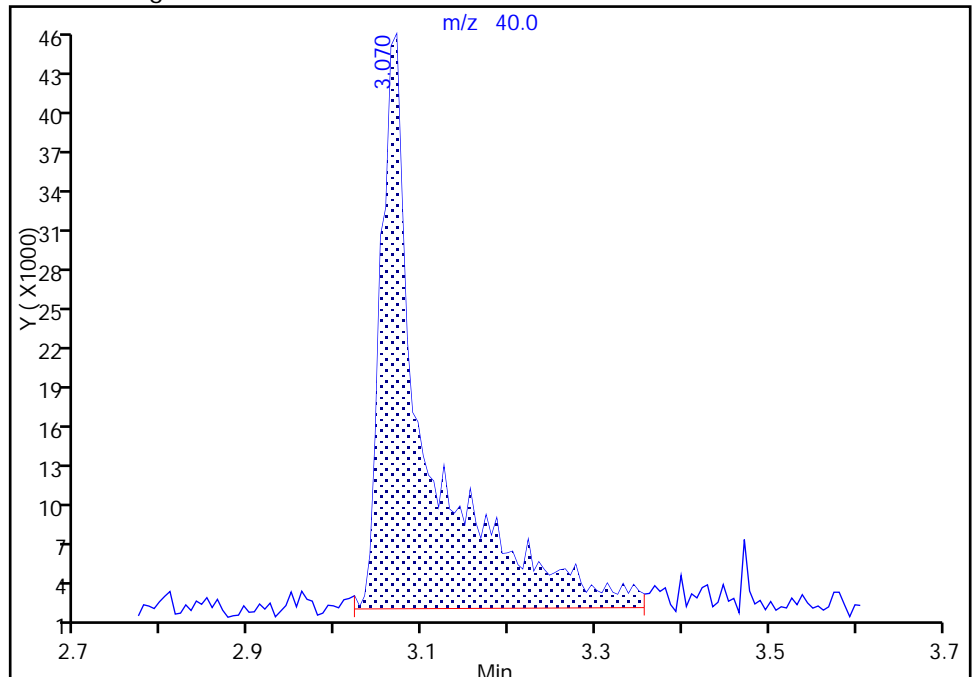
RT: 3.07
Area: 113250
Amount: 68.209633
Amount Units: ug/L

Processing Integration Results



RT: 3.07
Area: 159433
Amount: 98.909932
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:45:45
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

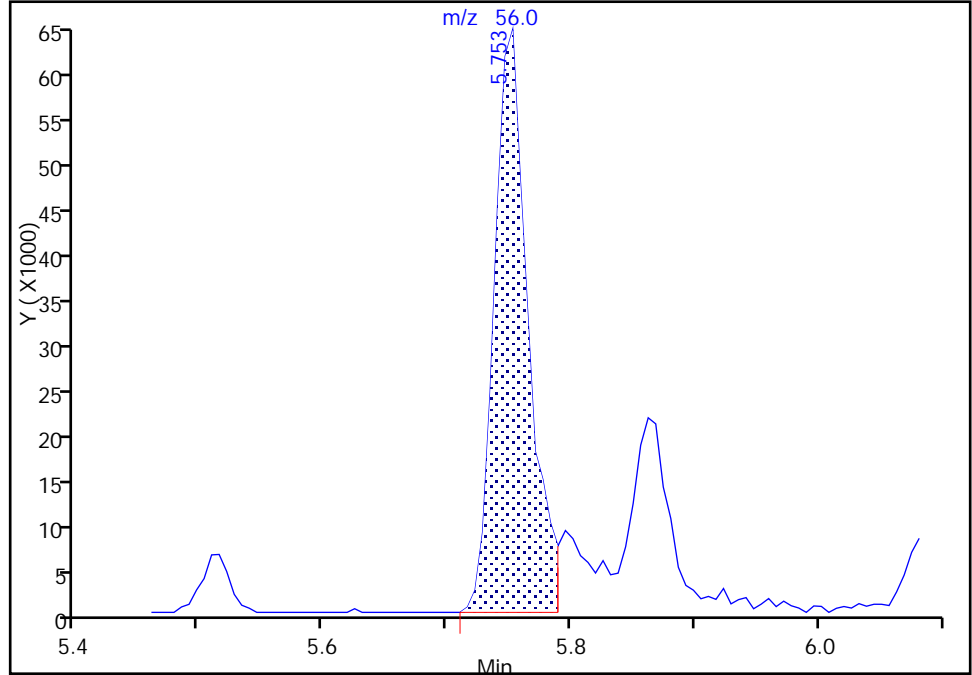
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6828.D
Injection Date: 31-Jan-2018 22:14:30 Instrument ID: HP5973N
Lims ID: IC 11
Client ID:
Operator ID: LH ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

Signal: 1

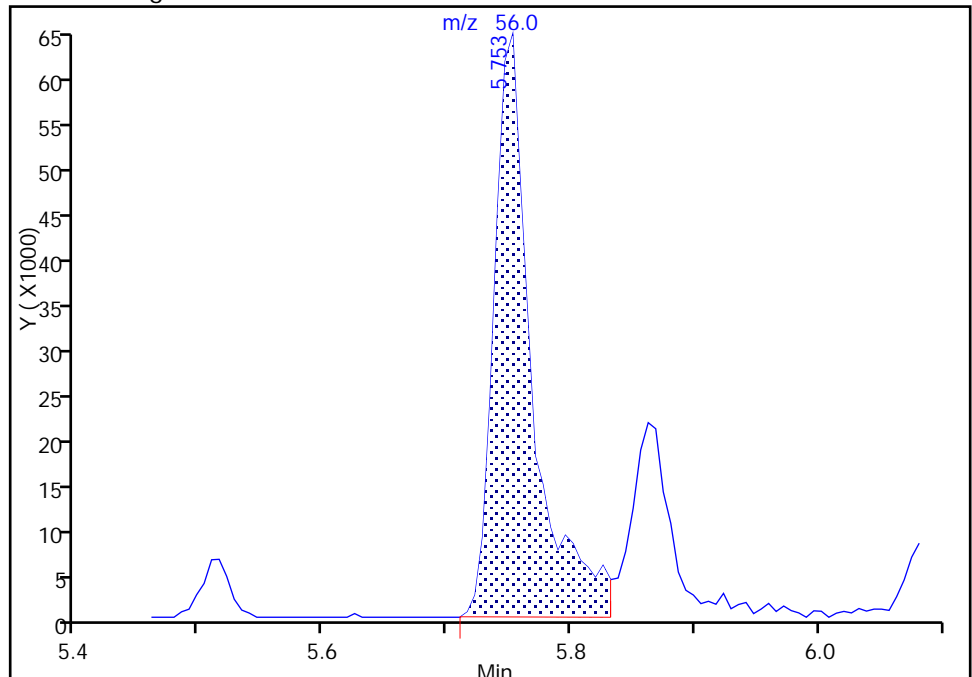
RT: 5.75
Area: 122937
Amount: 213.2140
Amount Units: ug/L

Processing Integration Results



RT: 5.75
Area: 138486
Amount: 233.4308
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 14:55:31
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6829.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 31-Jan-2018 22:41:30 ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0068951-023
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:04 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 10:47:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	206699	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	91	780040	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	399663	25.0	25.0	
12 Chlorodifluoromethane	51	1.348	1.348	0.000	96	532571	25.0	26.9	
141 Ethanol	45	2.456	2.456	0.000	99	169929	1000.0	954.8	
81 Propene oxide	58	2.547	2.547	0.000	95	650264	NC	NC	a
26 Isopropyl alcohol	45	2.960	2.960	0.000	98	327741	250.0	270.4	M
29 Acetonitrile	40	3.058	3.058	0.000	100	424707	250.0	261.3	M
37 Isopropyl ether	45	3.849	3.849	0.000	97	1870241	25.0	27.0	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	93	747373	25.0	26.9	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	95	335791	125.0	130.9	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	96	1416756	25.0	26.6	
45 Ethyl acetate	43	4.427	4.427	0.000	98	1244391	50.0	52.3	
46 Propionitrile	54	4.463	4.463	0.000	99	850191	250.0	277.4	
48 Methacrylonitrile	67	4.585	4.585	0.000	96	1532027	250.0	266.1	
146 Isooctane	57	5.169	5.169	0.000	97	1419169	25.0	25.7	
140 t-Amyl alcohol	59	5.193	5.193	0.000	88	488095	250.0	257.7	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	89	1103926	25.0	27.3	
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	97	896893	25.0	27.5	
61 n-Butanol	56	5.747	5.747	0.000	94	407504	625.0	681.3	M
145 Ethyl acrylate	55	5.862	5.862	0.000	98	720463	25.0	27.0	
65 Methyl methacrylate	41	6.081	6.081	0.000	88	1094788	50.0	54.9	
68 2-Nitropropane	43	6.489	6.489	0.000	99	283287	50.0	52.4	
70 Epichlorohydrin	57	6.617	6.617	0.000	98	552556	250.0	272.2	
74 2-Methylthiophene	97	7.109	7.109	0.000	99	995073	25.0	28.1	
76 3-Methylthiophene	97	7.274	7.274	0.000	98	1010457	25.0	26.7	
149 n-Butyl acetate	43	7.785	7.785	0.000	96	995069	25.0	25.3	
139 1-Chlorohexane	55	8.381	8.381	0.000	86	424638	25.0	22.9	
86 3-Chlorobenzotrifluoride	180	8.393	8.393	0.000	92	420609	25.0	27.0	
87 4-Chlorobenzotrifluoride	180	8.460	8.460	0.000	93	391798	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.366	9.366	0.000	96	449345	25.0	27.2	
96 Cyclohexanone	55	9.592	9.592	0.000	95	215478	250.0	284.3	
103 3-Chlorotoluene	126	10.048	10.048	0.000	96	335263	25.0	27.0	
107 Pentachloroethane	167	10.431	10.431	0.000	86	91362	25.0	25.3	
112 Dicyclopentadiene	66	10.802	10.802	0.000	98	1496103	25.0	26.1	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	1178304	25.0	28.3	
143 Benzyl chloride	126	10.948	10.948	0.000	99	105281	25.0	23.6	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	98	447637	25.0	28.0	
142 2-Methylnaphthalene	142	13.704	13.704	0.000	93	473366	25.0	28.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 12.50	Units: uL
2MTP_WRK_00068	Amount Added: 12.50	Units: uL
3MTP_WRK_00069	Amount Added: 12.50	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6829.D

Injection Date: 31-Jan-2018 22:41:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 12

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

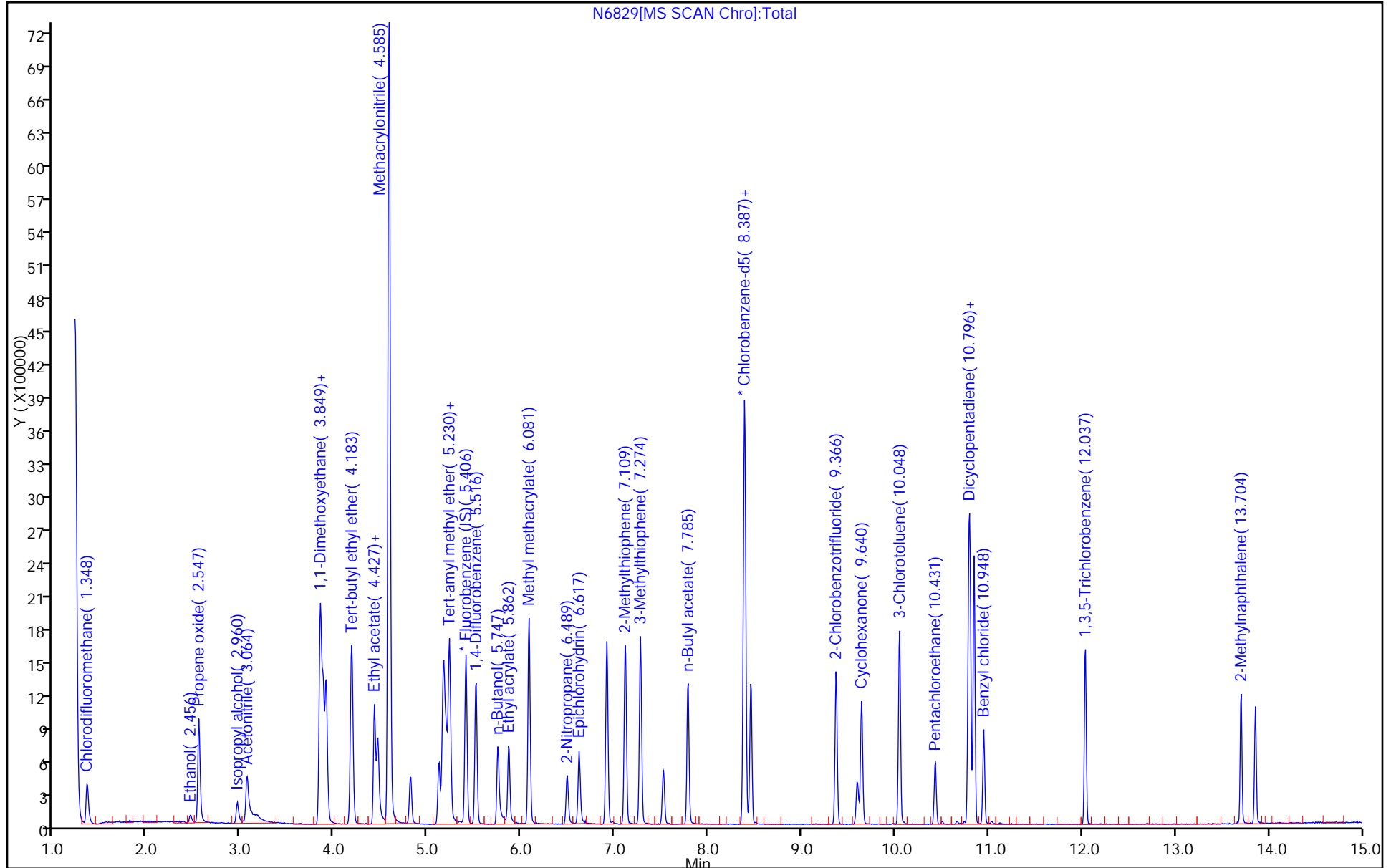
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

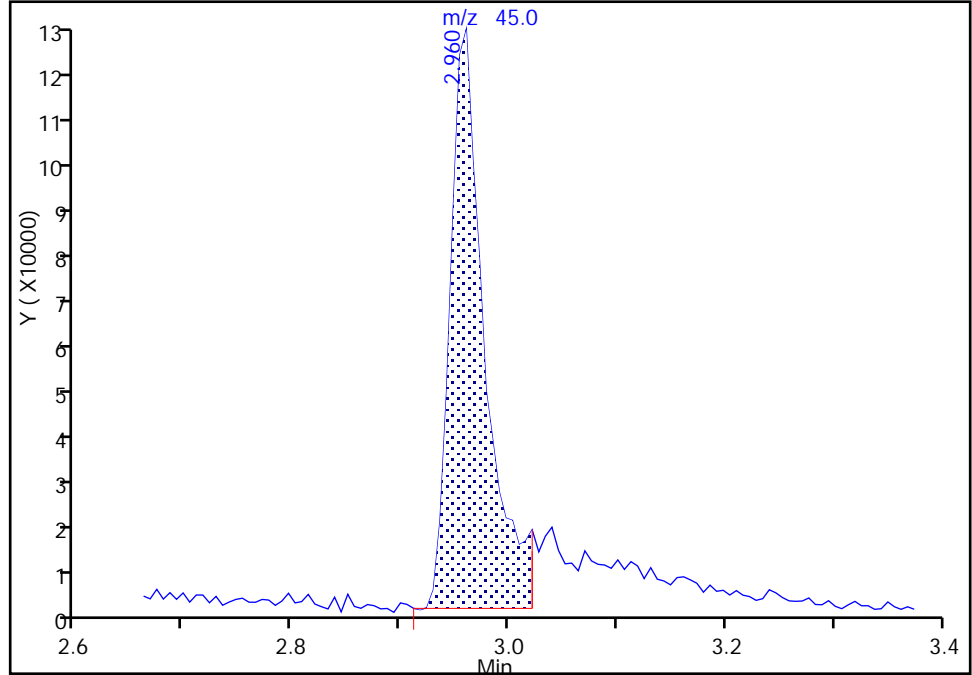
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6829.D
Injection Date: 31-Jan-2018 22:41:30 Instrument ID: HP5973N
Lims ID: IC 12
Client ID:
Operator ID: LH ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

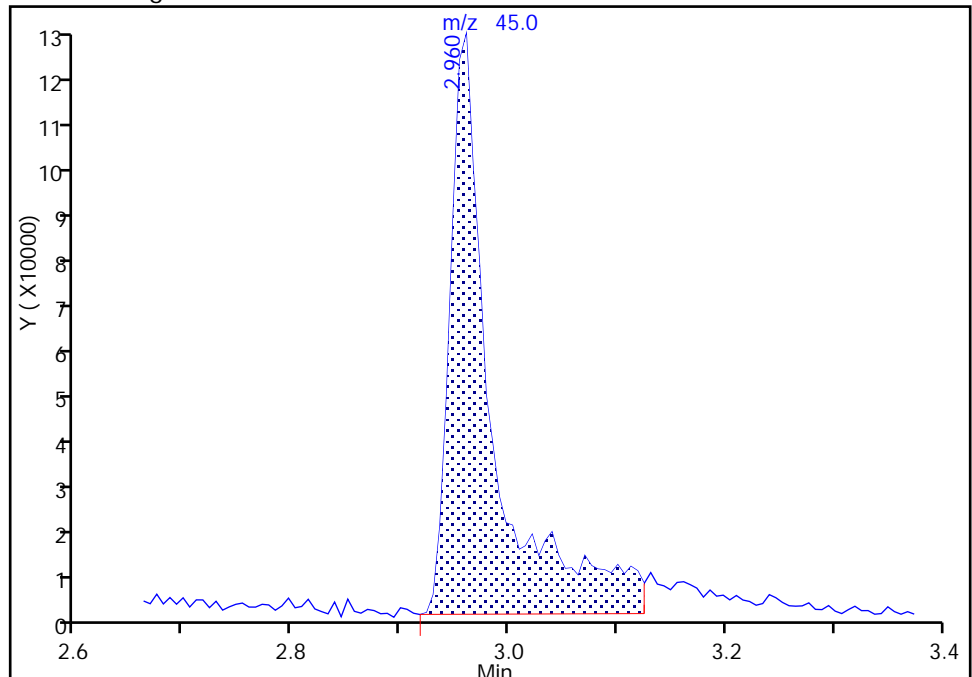
RT: 2.96
Area: 263612
Amount: 235.7473
Amount Units: ug/L

Processing Integration Results



RT: 2.96
Area: 327741
Amount: 270.4180
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:43:34
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

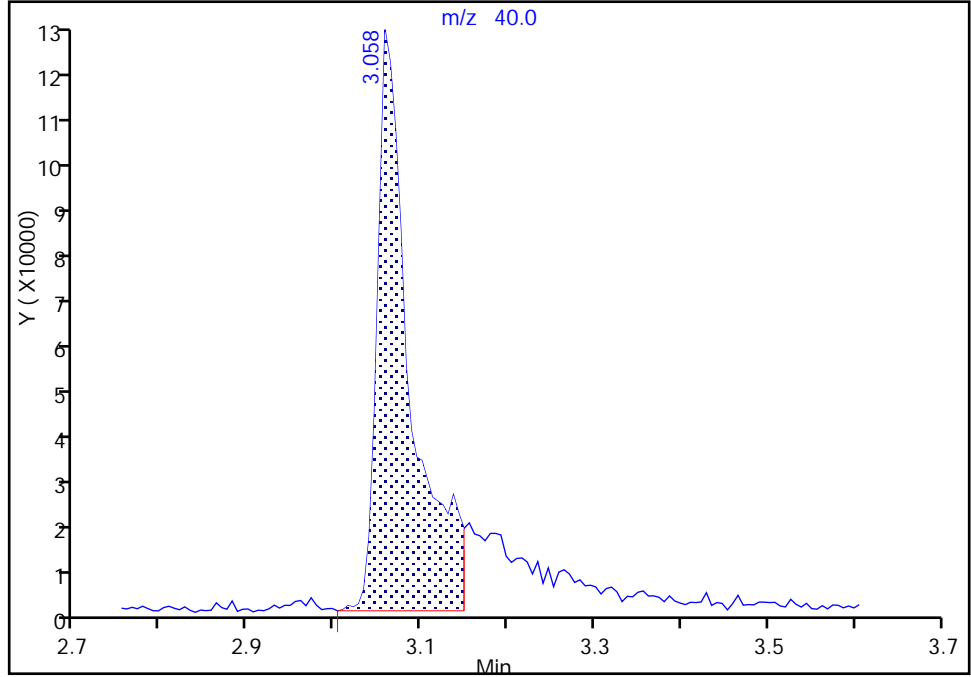
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6829.D
Injection Date: 31-Jan-2018 22:41:30 Instrument ID: HP5973N
Lims ID: IC 12
Client ID:
Operator ID: LH ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

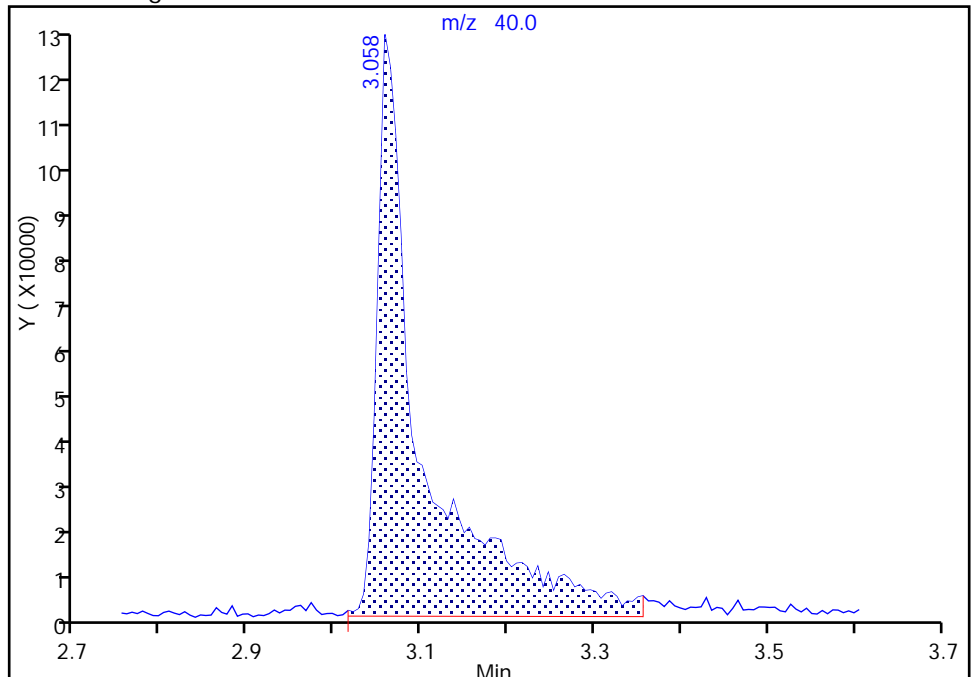
RT: 3.06
Area: 318571
Amount: 208.2919
Amount Units: ug/L

Processing Integration Results



RT: 3.06
Area: 424707
Amount: 261.3278
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 10:43:50
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

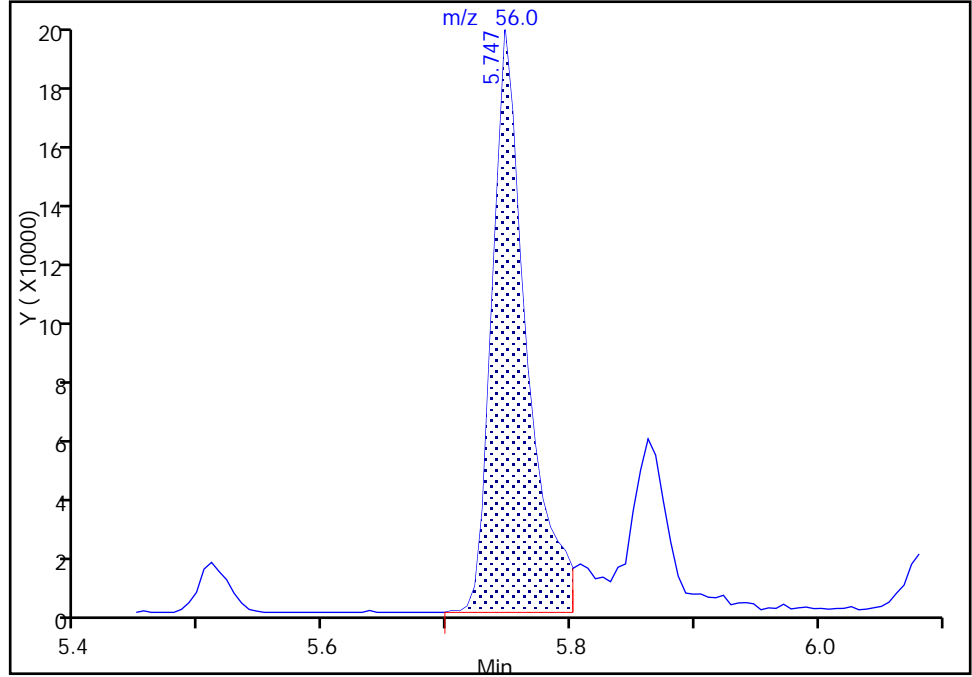
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6829.D
Injection Date: 31-Jan-2018 22:41:30 Instrument ID: HP5973N
Lims ID: IC 12
Client ID:
Operator ID: LH ALS Bottle#: 23 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

Signal: 1

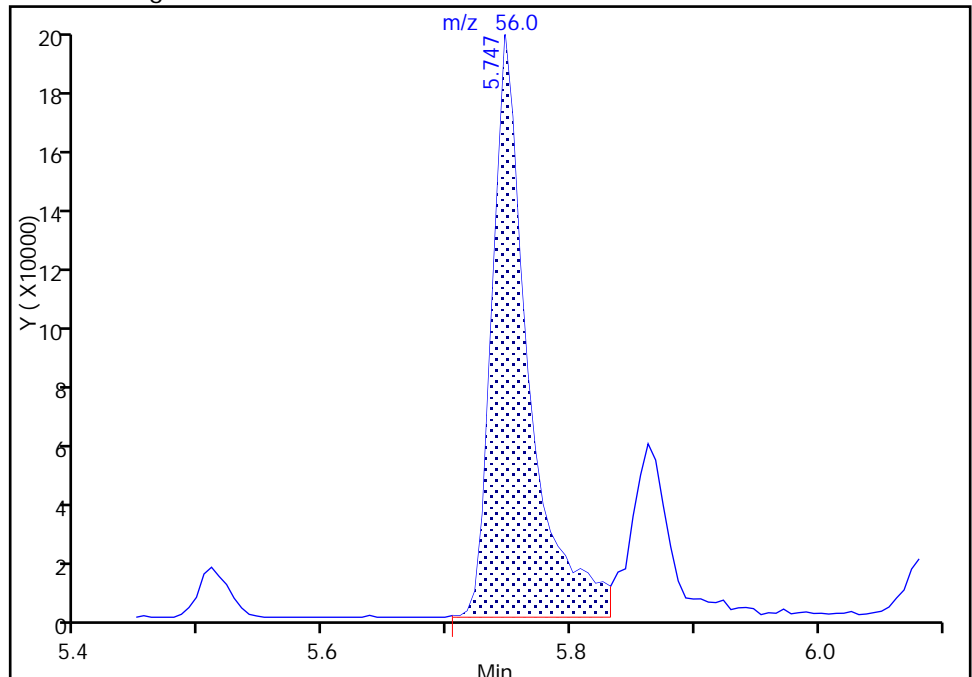
RT: 5.75
Area: 383654
Amount: 648.2894
Amount Units: ug/L

Processing Integration Results



RT: 5.75
Area: 407504
Amount: 681.2690
Amount Units: ug/L

Manual Integration Results



Reviewer: scibilliam, 01-Feb-2018 14:55:56
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6830.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 31-Jan-2018 23:09:30 ALS Bottle#: 24 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0068951-024
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:06 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 13:48:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	199580	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	91	757578	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	412265	25.0	25.0	
12 Chlorodifluoromethane	51	1.348	1.348	0.000	96	1152819	50.0	60.4	
141 Ethanol	45	2.456	2.456	0.000	99	355787	2000.0	2070.4	M
81 Propene oxide	58	2.547	2.547	0.000	96	1343321	NC	NC	a
26 Isopropyl alcohol	45	2.955	2.960	-0.005	98	720121	500.0	615.4	M
29 Acetonitrile	40	3.058	3.058	0.000	99	840913	500.0	535.9	M
37 Isopropyl ether	45	3.843	3.849	-0.006	97	3803503	50.0	56.8	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	92	1574059	50.0	58.7	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	96	697706	250.0	281.6	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	97	2888911	50.0	56.3	
45 Ethyl acetate	43	4.427	4.427	0.000	98	2554684	100.0	111.2	
46 Propionitrile	54	4.463	4.463	0.000	99	1744046	500.0	589.3	
48 Methacrylonitrile	67	4.585	4.585	0.000	96	3136855	500.0	564.3	
146 Isooctane	57	5.163	5.169	-0.006	97	3031827	50.0	56.9	
140 t-Amyl alcohol	59	5.193	5.193	0.000	94	1061897	500.0	580.7	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	90	2257673	50.0	57.7	
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	97	1846868	50.0	58.7	
61 n-Butanol	56	5.747	5.747	0.000	94	874146	1250.0	1513.5	
145 Ethyl acrylate	55	5.863	5.862	0.000	98	1502086	50.0	58.4	
65 Methyl methacrylate	41	6.082	6.081	0.001	88	2233667	100.0	115.9	
68 2-Nitropropane	43	6.489	6.489	0.000	98	624992	100.0	112.0	
70 Epichlorohydrin	57	6.617	6.617	0.000	99	1160497	500.0	592.1	
74 2-Methylthiophene	97	7.110	7.109	0.001	99	2043801	50.0	56.0	
76 3-Methylthiophene	97	7.274	7.274	0.000	99	2047665	50.0	52.5	
149 n-Butyl acetate	43	7.779	7.785	-0.006	97	2040916	50.0	53.5	
139 1-Chlorohexane	55	8.381	8.381	0.000	76	890875	50.0	49.6	
86 3-Chlorobenzotrifluoride	180	8.393	8.393	0.000	93	896155	50.0	55.8	
87 4-Chlorobenzotrifluoride	180	8.454	8.460	-0.006	96	824389	50.0	55.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.367	9.366	0.001	96	932364	50.0	54.6	
96 Cyclohexanone	55	9.598	9.592	0.006	96	436429	500.0	558.3	
103 3-Chlorotoluene	126	10.048	10.048	0.000	96	692236	50.0	54.1	
107 Pentachloroethane	167	10.431	10.431	0.000	89	181320	50.0	48.6	
112 Dicyclopentadiene	66	10.802	10.802	0.000	98	3193455	50.0	54.0	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	2429743	50.0	56.5	
143 Benzyl chloride	126	10.948	10.948	0.000	99	225205	50.0	51.0	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	97	917959	50.0	55.6	
142 2-Methylnaphthalene	142	13.704	13.704	0.000	94	1105915	50.0	65.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 25.00	Units: uL
2MTP_WRK_00068	Amount Added: 25.00	Units: uL
3MTP_WRK_00069	Amount Added: 25.00	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6830.D

Injection Date: 31-Jan-2018 23:09:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 13

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

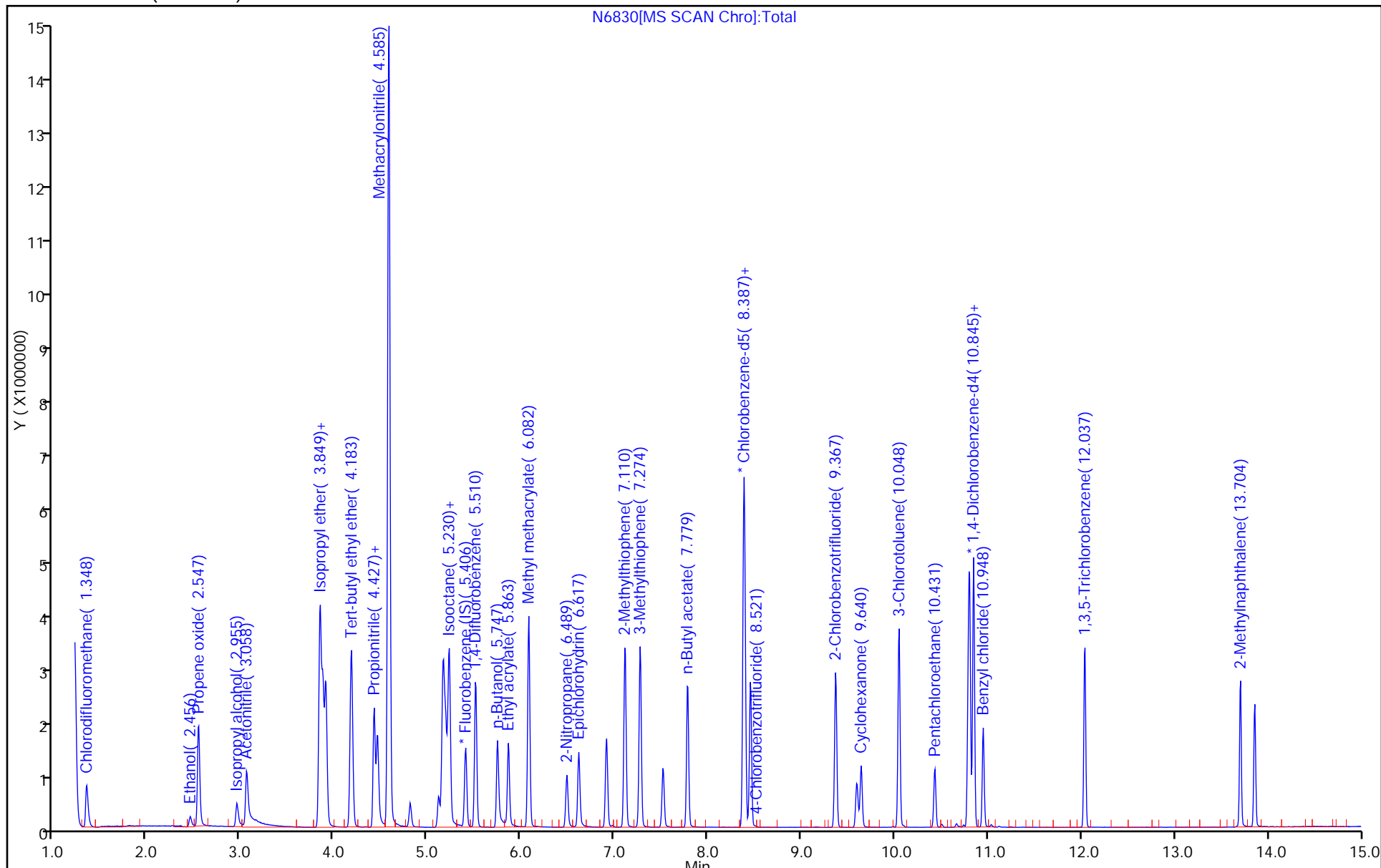
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

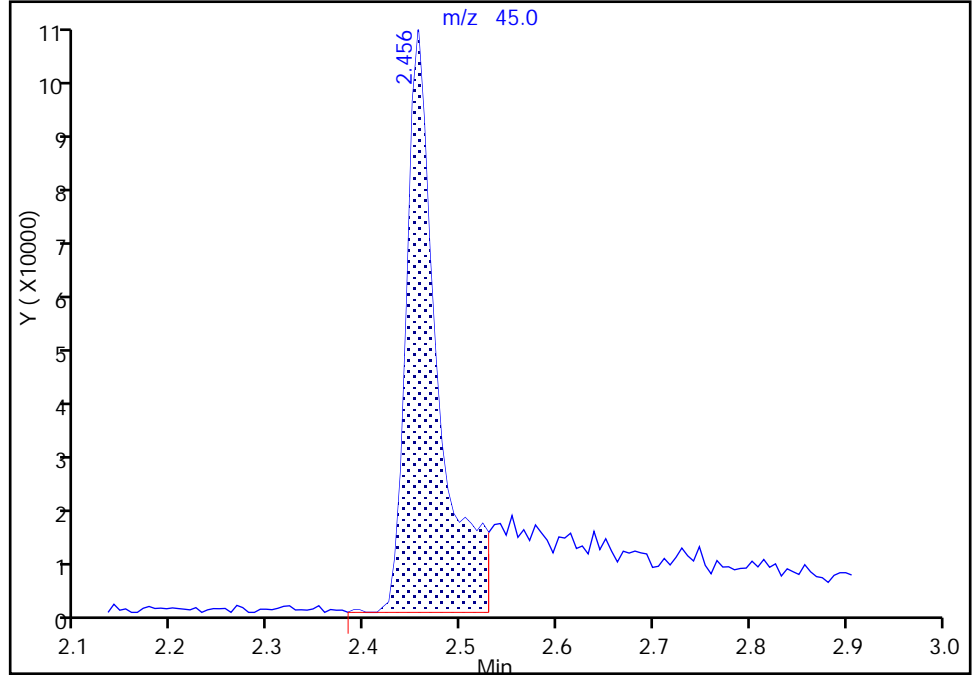
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6830.D
Injection Date: 31-Jan-2018 23:09:30 Instrument ID: HP5973N
Lims ID: IC 13
Client ID:
Operator ID: LH ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

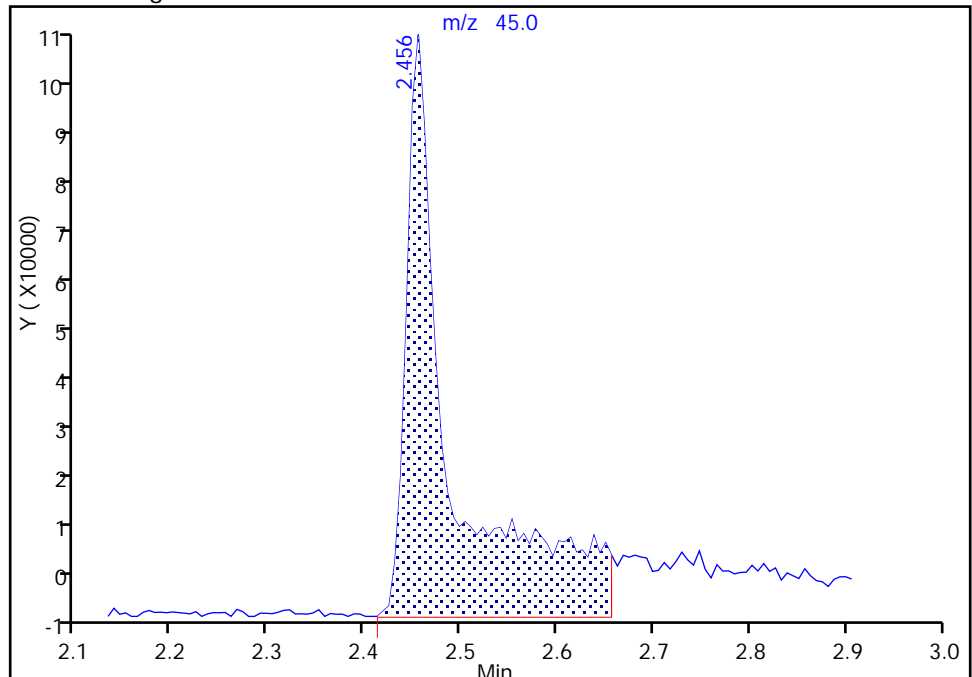
RT: 2.46
Area: 246806
Amount: 1516.3783
Amount Units: ug/L

Processing Integration Results



RT: 2.46
Area: 355787
Amount: 2070.4319
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:47:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

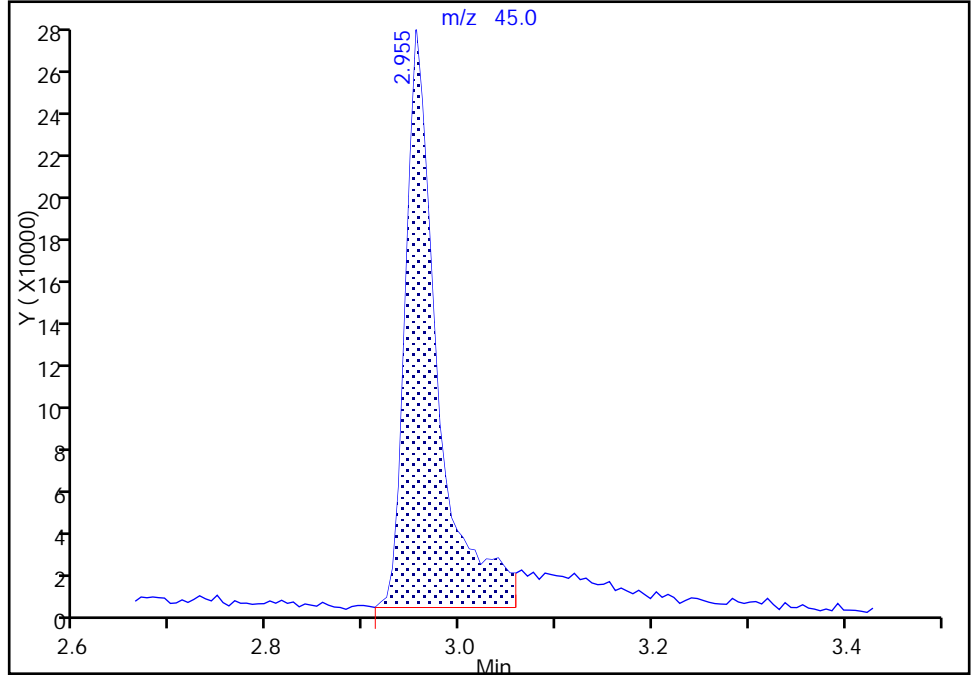
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6830.D
Injection Date: 31-Jan-2018 23:09:30 Instrument ID: HP5973N
Lims ID: IC 13
Client ID:
Operator ID: LH ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

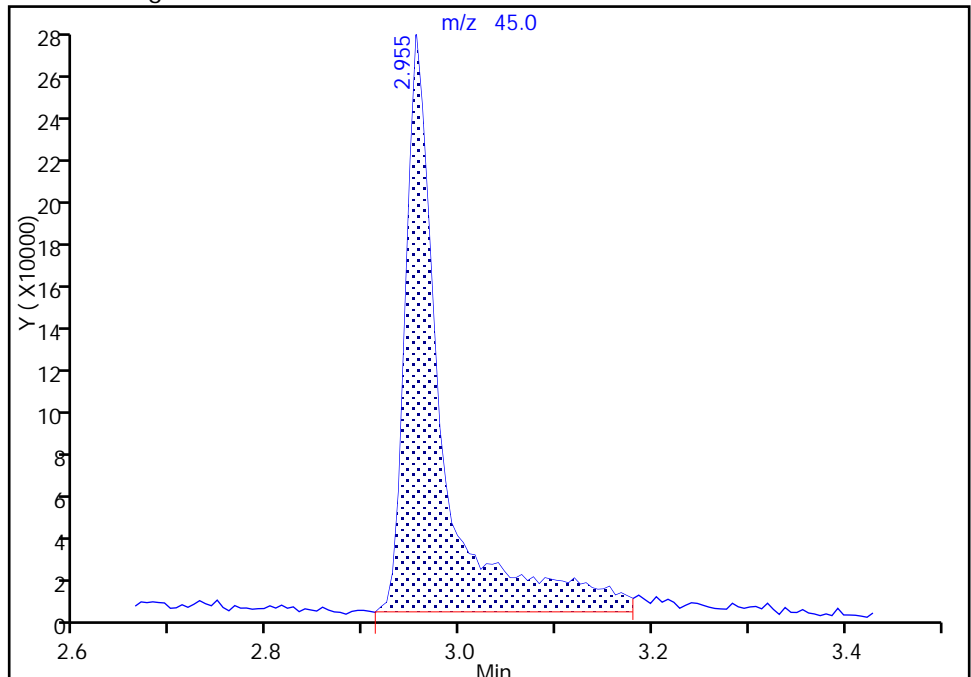
RT: 2.95
Area: 630083
Amount: 494.4863
Amount Units: ug/L

Processing Integration Results



RT: 2.95
Area: 720121
Amount: 615.3635
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:47:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

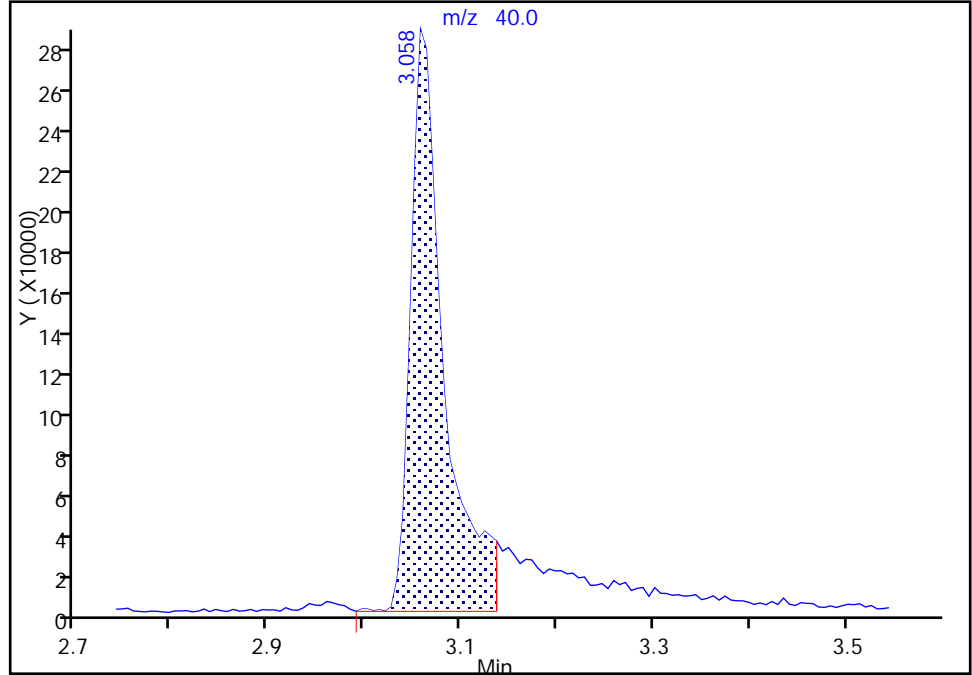
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6830.D
Injection Date: 31-Jan-2018 23:09:30 Instrument ID: HP5973N
Lims ID: IC 13
Client ID:
Operator ID: LH ALS Bottle#: 24 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

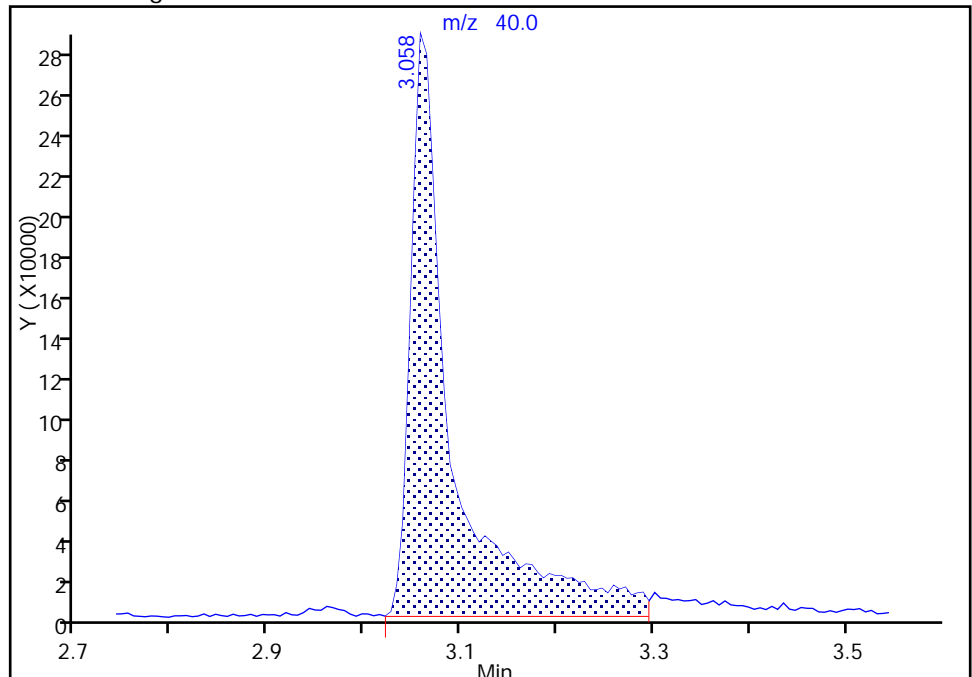
RT: 3.06
Area: 673573
Amount: 493.1892
Amount Units: ug/L

Processing Integration Results



RT: 3.06
Area: 840913
Amount: 535.8814
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:48:06
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Lims ID: IC 14
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 31-Jan-2018 23:35:30 ALS Bottle#: 25 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 14
 Misc. Info.: 480-0068951-025
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub69
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:08 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibilliam

Date: 01-Feb-2018 13:50:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	217640	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	87	783285	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	408167	25.0	25.0	
12 Chlorodifluoromethane	51	1.349	1.348	0.001	96	2366281	100.0	113.7	
141 Ethanol	45	2.462	2.456	0.006	100	974514	4000.0	5200.4	
81 Propene oxide	58	2.547	2.547	0.000	96	2780489	NC	NC	a
26 Isopropyl alcohol	45	2.961	2.960	0.001	99	1417223	1000.0	1110.6	
29 Acetonitrile	40	3.064	3.058	0.006	100	1728219	1000.0	1009.9	M
37 Isopropyl ether	45	3.849	3.849	0.000	98	8047267	100.0	110.3	
38 2-Chloro-1,3-butadiene	53	3.873	3.879	-0.006	90	3351260	100.0	114.6	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	96	1455272	500.0	538.7	
41 Tert-butyl ethyl ether	59	4.184	4.183	0.001	96	6197022	100.0	110.7	
45 Ethyl acetate	43	4.427	4.427	0.000	98	5241294	200.0	209.3	
46 Propionitrile	54	4.463	4.463	0.000	99	3613997	1000.0	1119.9	
48 Methacrylonitrile	67	4.585	4.585	0.000	98	6452907	1000.0	1064.5	e
146 Isooctane	57	5.163	5.169	-0.006	97	6418328	100.0	110.5	
140 t-Amyl alcohol	59	5.193	5.193	0.000	92	2131737	1000.0	1069.1	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	92	4710124	100.0	110.4	
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	96	3945755	100.0	115.1	
61 n-Butanol	56	5.747	5.747	0.000	93	1785337	2500.0	2834.7	
145 Ethyl acrylate	55	5.863	5.862	0.001	98	3019938	100.0	107.6	
65 Methyl methacrylate	41	6.082	6.081	0.001	89	4502116	200.0	214.3	
68 2-Nitropropane	43	6.489	6.489	0.000	97	1351647	200.0	244.6	
70 Epichlorohydrin	57	6.617	6.617	0.000	99	2338814	1000.0	1094.3	
74 2-Methylthiophene	97	7.110	7.109	0.001	99	4188145	100.0	116.0	
76 3-Methylthiophene	97	7.274	7.274	0.000	99	4243160	100.0	109.9	
149 n-Butyl acetate	43	7.779	7.785	-0.006	96	4013231	100.0	101.8	
139 1-Chlorohexane	55	8.381	8.381	0.000	87	1841203	100.0	99.1	
86 3-Chlorobenzotrifluoride	180	8.393	8.393	0.000	93	1904170	100.0	119.7	
87 4-Chlorobenzotrifluoride	180	8.454	8.460	-0.006	95	1790011	100.0	121.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
94 2-Chlorobenzotrifluoride	180	9.367	9.366	0.001	96	1989490	100.0	117.8	
96 Cyclohexanone	55	9.592	9.592	0.000	95	861573	1000.0	1113.1	
103 3-Chlorotoluene	126	10.048	10.048	0.000	97	1467630	100.0	115.8	
107 Pentachloroethane	167	10.431	10.431	0.000	89	368397	100.0	99.7	
112 Dicyclopentadiene	66	10.802	10.802	0.000	97	6898280	100.0	117.7	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	5073756	100.0	119.1	
143 Benzyl chloride	126	10.948	10.948	0.000	99	471228	100.0	102.5	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	97	2018386	100.0	123.5	
142 2-Methylnaphthalene	142	13.698	13.704	-0.006	93	2677383	100.0	160.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ADD CORP mix_00067	Amount Added: 50.00	Units: uL
2MTP_WRK_00068	Amount Added: 50.00	Units: uL
3MTP_WRK_00069	Amount Added: 50.00	Units: uL
N 8260 IS_00103	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D

Injection Date: 31-Jan-2018 23:35:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 14

Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL

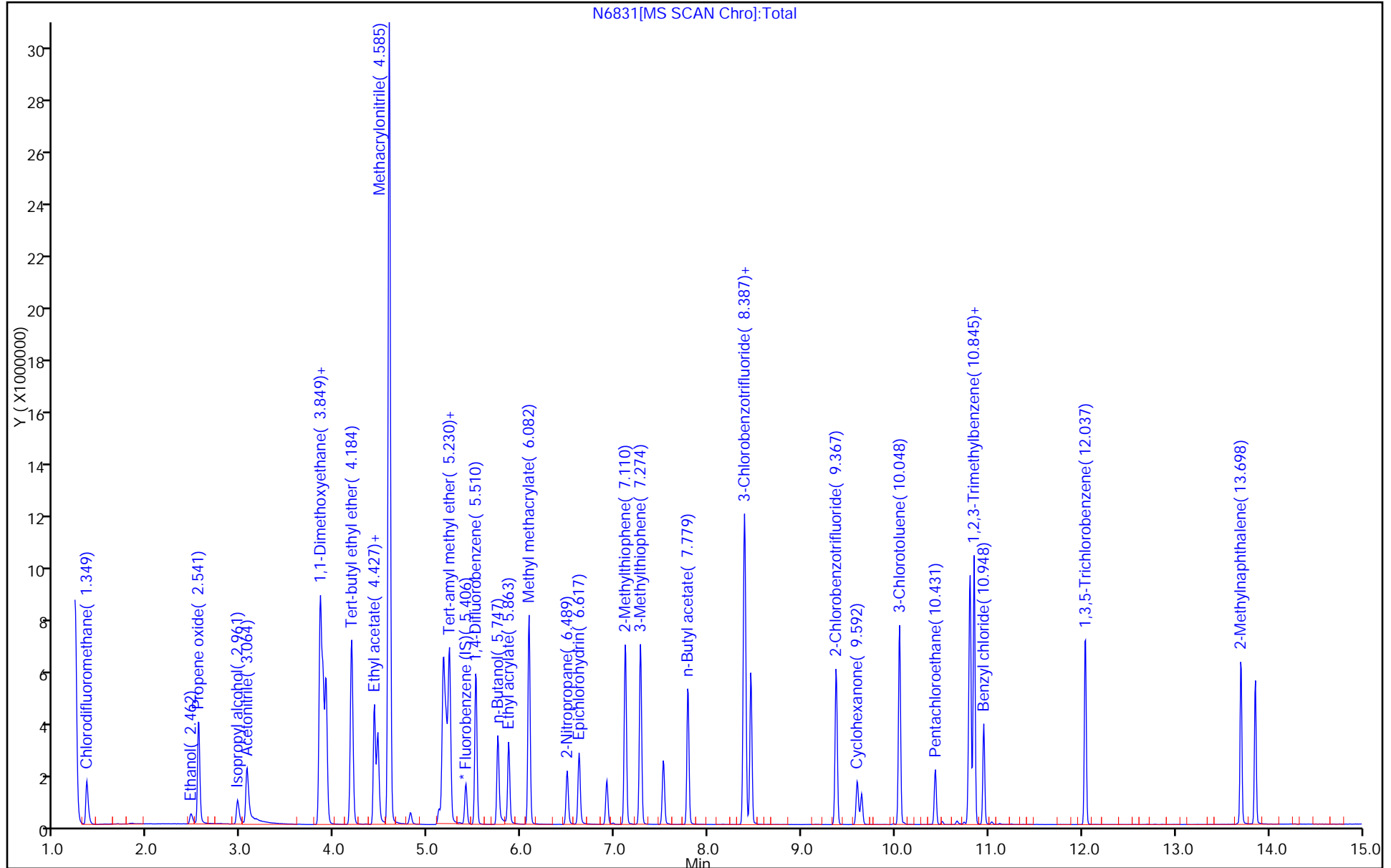
Dil. Factor: 1.0000

ALS Bottle#: 25

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

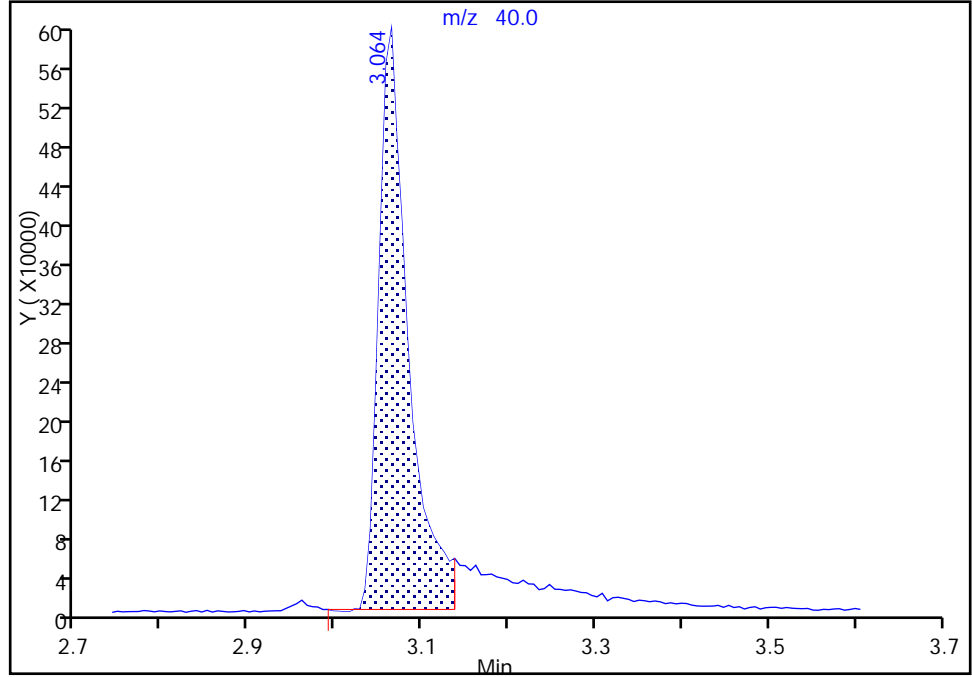
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
Injection Date: 31-Jan-2018 23:35:30 Instrument ID: HP5973N
Lims ID: IC 14
Client ID:
Operator ID: LH ALS Bottle#: 25 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

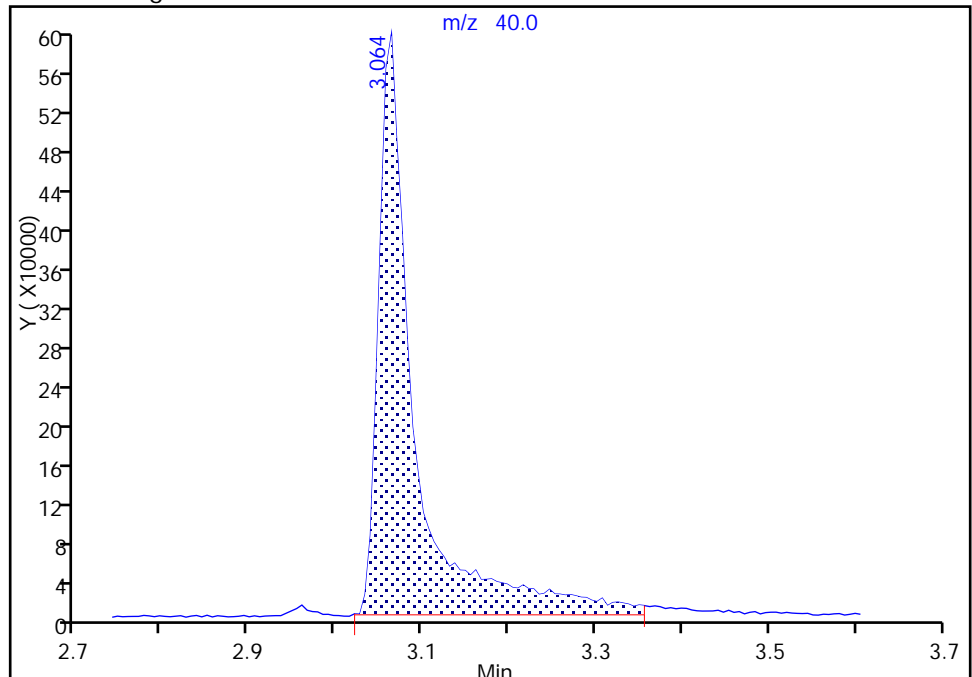
RT: 3.06
Area: 1408031
Amount: 747.0466
Amount Units: ug/L

Processing Integration Results



RT: 3.06
Area: 1728219
Amount: 1009.9379
Amount Units: ug/L

Manual Integration Results



Reviewer: scibiliam, 01-Feb-2018 13:49:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-395114/4	S6363.D
Level 2	IC 480-395114/5	S6364.D
Level 3	IC 480-395114/6	S6365.D
Level 4	IC 480-395114/7	S6366.D
Level 5	IC 480-395114/8	S6367.D
Level 6	ICIS 480-395114/9	S6368.D
Level 7	IC 480-395114/10	S6369.D
Level 8	IC 480-395114/11	S6370.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	++++ 1.3732	1.2051 1.3963	1.5028 1.3714	1.0618	1.4434	Ave		1.3363		0.1000	11.3		20.0				
Chloromethane	1.3546 1.3230	1.4862 1.3597	1.5826 1.2709	1.2684	1.3901	Ave		1.3794		0.1000	7.8		20.0				
Vinyl chloride	++++ 1.4998	1.4125 1.4988	1.5255 1.4301	1.3132	1.4697	Ave		1.4499		0.1000	5.0		20.0				
Butadiene	1.4023 1.3541	1.5586 1.3553	1.8704 1.2549	1.3011	1.4339	Ave		1.4413			13.6		20.0				
Bromomethane	++++ 0.9623	1.3537 1.0268	1.2018 0.9588	1.0143	1.1159	Ave		1.0905		0.1000	13.3		20.0				
Chloroethane	1.9327 0.9274	1.3701 0.9116	1.0505 0.8732	1.0081	0.9974	Lin1	0.5125	0.8860		0.1000				0.9990		0.9900	
Dichlorofluoromethane	++++ 2.1243	2.6753 2.1462	2.4646 2.0723	1.8592	2.0397	Ave		2.1974			12.6		20.0				
Trichlorofluoromethane	++++ 1.7700	1.7994 1.7147	1.9241 1.6770	1.4849	1.7718	Ave		1.7346		0.1000	7.8		20.0				
Ethyl ether	++++ 1.0524	0.9766 1.0742	1.0219 1.0364	1.0492	1.0111	Ave		1.0317			3.1		20.0				
Acrolein	++++ 0.2189	0.3135 0.2294	0.2659 0.2228	0.2433	0.2206	Ave		0.2449			14.1		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.0344	0.7130 1.1163	0.8631 1.0723	1.0765	1.1160	Ave		0.9988		0.1000	15.3		20.0				
1,1-Dichloroethene	++++ 1.1101	0.8715 1.0704	1.0865 1.1389	1.0897	0.9677	Ave		1.0478		0.1000	9.0		20.0				
Acetone	++++ 0.4393	0.4828 0.4764	0.6012 0.4547	0.4424	0.4722	Ave		0.4813		0.1000	11.5		20.0				
Iodomethane	++++ 1.9873	1.5259 2.1235	2.0985 2.0778	1.9456	1.9178	Ave		1.9538			10.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	++++ 3.7063	2.9201 3.7396	3.5531 3.6484	3.7857	3.5857	Ave		3.5627		0.1000	8.3		20.0				
Allyl chloride	++++ 1.6284	1.7940 1.6705	1.5872 1.6502	1.5412	1.5151	Ave		1.6267			5.7		20.0				
Methyl acetate	1.8695 0.7598	1.2837 0.9015	0.8531 0.8721	0.9173	0.8324	Lin1	0.7566	0.8532		0.1000				0.9960		0.9900	
Methylene Chloride	++++ 1.2825	1.5825 1.2945	1.5867 1.2618	1.3098	1.3033	Ave		1.3744		0.1000	10.5		20.0				
2-Methyl-2-propanol	0.1090 0.1065	0.1114 0.1306	0.0910 0.1258	0.0986	0.1047	Ave		0.1097			12.0		20.0				
Methyl tert-butyl ether	3.9943 4.0011	4.1144 4.1833	4.1504 3.9921	4.0639	3.9457	Ave		4.0557		0.1000	2.1		20.0				
trans-1,2-Dichloroethene	++++ 1.2762	1.0048 1.3420	1.3969 1.2951	1.3309	1.2853	Ave		1.2759		0.1000	9.9		20.0				
Acrylonitrile	0.4282 0.4520	0.4632 0.4719	0.4712 0.4528	0.4679	0.4440	Ave		0.4564			3.3		20.0				
Hexane	++++ 1.7231	1.5218 1.6854	1.7557 1.7006	1.8644	1.5921	Ave		1.6919			6.6		20.0				
1,1-Dichloroethane	++++ 2.0662	1.7536 2.1350	2.0264 2.0513	2.0394	1.9541	Ave		2.0037		0.2000	6.1		20.0				
Vinyl acetate	++++ 2.3025	2.1515 2.4972	2.2662 2.3801	2.2161	2.2897	Ave		2.3005			4.9		20.0				
2,2-Dichloropropane	++++ 1.6890	1.6108 1.7008	1.6841 1.6365	1.6890	1.6316	Ave		1.6631			2.1		20.0				
cis-1,2-Dichloroethene	++++ 1.4533	1.3793 1.4946	1.5142 1.4549	1.4552	1.4641	Ave		1.4594		0.1000	2.9		20.0				
2-Butanone (MEK)	++++ 0.6175	0.6706 0.6125	0.5803 0.5937	0.5894	0.5537	Ave		0.6025		0.1000	6.1		20.0				
Chlorobromomethane	0.8169 0.7557	0.5713 0.7837	0.7811 0.7549	0.7789	0.6736	Ave		0.7395			10.8		20.0				
Tetrahydrofuran	++++ 0.3786	0.4271 0.3905	0.3682 0.3930	0.4233	0.3752	Ave		0.3937			5.9		20.0				
Chloroform	2.1624 2.1829	2.1379 2.2652	2.2371 2.1926	2.1794	2.1017	Ave		2.1824		0.2000	2.4		20.0				
1,1,1-Trichloroethane	++++ 1.9056	1.6912 1.9491	1.9233 1.9052	1.9725	1.8138	Ave		1.8801		0.1000	5.2		20.0				
Cyclohexane	++++ 1.8626	1.4788 1.8203	1.8618 1.8472	1.6498	1.6850	Ave		1.7436		0.1000	8.3		20.0				
Carbon tetrachloride	++++ 1.7862	1.4853 1.7837	1.7566 1.7733	1.6838	1.6317	Ave		1.7001		0.1000	6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	++++ 1.7272	1.5101 1.7811	1.6006 1.7429	1.7620	1.6542	Ave		1.6826			5.9		20.0				
Benzene	++++ 5.2354	5.0017 5.3275	5.3152 5.1091	5.2456	5.0144	Ave		5.1784		0.5000	2.6		20.0				
Isobutyl alcohol	0.0551 0.0640	0.0716 0.0669	0.0434 0.0666	0.0541	0.0625	Ave		0.0605			15.0		20.0				
1,2-Dichloroethane	1.7233 1.6865	1.7443 1.7325	1.7647 1.6696	1.6473	1.5919	Ave		1.6950		0.1000	3.4		20.0				
n-Heptane	++++ 1.7304	1.5609 1.6920	1.7769 1.7497	1.6866	1.6469	Ave		1.6919			4.3		20.0				
Trichloroethene	++++ 1.3921	1.1691 1.4318	1.4711 1.3596	1.3654	1.3534	Ave		1.3632		0.2000	7.0		20.0				
Methylcyclohexane	++++ 2.3408	1.7364 2.2999	2.1864 2.2885	2.2792	2.2152	Ave		2.1924		0.1000	9.5		20.0				
1,2-Dichloropropane	++++ 1.1795	1.1266 1.2439	1.2554 1.1920	1.1523	1.1053	Ave		1.1793		0.1000	4.8		20.0				
Dibromomethane	0.8191 0.8216	0.8437 0.8442	0.8845 0.8337	0.8551	0.7823	Ave		0.8355		0.1000	3.6		20.0				
1,4-Dioxane	++++ 0.0082	0.0017 0.0083	0.0049 0.0085	0.0070	0.0085	Lin1	-0.136	0.0085						1.0000		0.9900	
Bromodichloromethane	++++ 1.6907	1.4937 1.7827	1.6372 1.7426	1.6751	1.6325	Ave		1.6649		0.2000	5.6		20.0				
2-Chloroethyl vinyl ether	++++ 0.7985	0.7472 0.8670	0.7272 0.8326	0.7746	0.7843	Ave		0.7902			6.1		20.0				
cis-1,3-Dichloropropene	++++ 2.0315	1.6182 2.1582	1.9486 2.0742	1.8996	1.9974	Ave		1.9611		0.2000	8.8		20.0				
4-Methyl-2-pentanone (MIBK)	++++ 0.6065	0.5886 0.6080	0.5972 0.5772	0.5743	0.5757	Ave		0.5896		0.1000	2.5		20.0				
Toluene	++++ 1.6765	1.5821 1.6949	1.7447 1.6570	1.6189	1.6038	Ave		1.6540		0.4000	3.4		20.0				
trans-1,3-Dichloropropene	++++ 0.9243	0.7796 0.9547	0.7965 0.9673	0.8412	0.8311	Ave		0.8706		0.1000	8.8		20.0				
Ethyl methacrylate	++++ 0.9370	0.7981 0.9490	0.8275 0.9244	0.8353	0.8672	Ave		0.8769			6.8		20.0				
1,1,2-Trichloroethane	0.4822 0.4824	0.4365 0.4894	0.4810 0.4764	0.4686	0.4569	Ave		0.4717		0.1000	3.7		20.0				
Tetrachloroethene	++++ 0.8223	0.6228 0.8186	0.7139 0.7947	0.7772	0.7842	Ave		0.7620		0.2000	9.3		20.0				
1,3-Dichloropropane	++++ 1.0091	0.9253 1.0137	1.0330 0.9850	1.0054	0.9325	Ave		0.9863			4.2		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
2-Hexanone	0.4600 0.4484	0.4378 0.4617	0.4625 0.4462	0.4647	0.4231	Ave		0.4505			0.1000	3.2	20.0				
Dibromochloromethane	++++ 0.6650	0.5297 0.6893	0.6299 0.6981	0.6054	0.6159	Ave		0.6333			0.1000	9.2	20.0				
1,2-Dibromoethane	0.5975 0.6378	0.6094 0.6405	0.5867 0.6231	0.5877	0.5909	Ave		0.6092				3.6	20.0				
Chlorobenzene	++++ 1.9135	1.7317 1.9149	1.8900 1.8585	1.8784	1.8194	Ave		1.8581			0.5000	3.5	20.0				
Ethylbenzene	++++ 3.1852	2.8885 3.1458	3.0050 2.9564	3.0842	3.0415	Ave		3.0438			0.1000	3.4	20.0				
1,1,1,2-Tetrachloroethane	++++ 0.6636	0.5723 0.6833	0.6873 0.6766	0.6561	0.6121	Ave		0.6502				6.6	20.0				
m,p-Xylene	++++ 1.3148	1.1937 1.3141	1.2442 1.2781	1.2510	1.2228	Ave		1.2598			0.1000	3.6	20.0				
o-Xylene	++++ 1.2409	1.0143 1.2513	1.1734 1.2229	1.1988	1.1542	Ave		1.1794			0.3000	6.8	20.0				
Styrene	++++ 2.1313	1.7284 2.1810	2.0962 2.0983	1.9614	1.9817	Ave		2.0255			0.3000	7.5	20.0				
Bromoform	0.3848 0.4537	0.3443 0.4903	0.4008 0.4972	0.4033	0.3938	Ave		0.4210			0.1000	12.8	20.0				
Isopropylbenzene	++++ 3.0737	2.6775 2.9015	2.8999 2.8166	2.9762	2.8582	Ave		2.8862			0.1000	4.3	20.0				
Bromobenzene	++++ 0.8346	0.7010 0.7961	0.7807 0.8025	0.8106	0.7807	Ave		0.7866				5.3	20.0				
1,1,2,2-Tetrachloroethane	0.7551 0.7171	0.6466 0.7291	0.7991 0.7335	0.7130	0.7024	Ave		0.7245			0.3000	6.0	20.0				
1,2,3-Trichloropropane	0.2659 0.2543	0.2582 0.2500	0.2742 0.2486	0.2684	0.2487	Ave		0.2585				3.8	20.0				
N-Propylbenzene	++++ 3.5027	2.9924 3.3485	3.2793 3.1325	3.3146	3.2783	Ave		3.2640				5.0	20.0				
trans-1,4-Dichloro-2-butene	++++ 0.1788	0.0891 0.1803	0.1096 0.1984	0.1191	0.1337	Ave		0.1441				28.9	*	20.0			
2-Chlorotoluene	++++ 0.7453	0.6561 0.7172	0.7324 0.7066	0.7046	0.7244	Ave		0.7124				4.0	20.0				
1,3,5-Trimethylbenzene	++++ 2.5953	2.2850 2.4806	2.4593 2.3834	2.4510	2.4160	Ave		2.4387				3.9	20.0				
4-Chlorotoluene	0.6907 0.7790	0.6230 0.7563	0.7432 0.7551	0.7433	0.7322	Ave		0.7278				6.8	20.0				
tert-Butylbenzene	++++ 0.6085	0.5488 0.6007	0.5972 0.5831	0.5808	0.5643	Ave		0.5833				3.6	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
1,2,4-Trimethylbenzene	2.3961 2.6539	2.3247 2.5287	2.6162 2.4352	2.5511	2.4451	Ave		2.4939			4.5		20.0				
sec-Butylbenzene	++++ 3.2976	2.8211 3.0996	3.2080 2.9429	3.1557	3.0651	Ave		3.0843			5.2		20.0				
1,3-Dichlorobenzene	++++ 1.5579	1.3164 1.5042	1.5672 1.4786	1.5107	1.4744	Ave		1.4871		0.6000	5.6		20.0				
4-Isopropyltoluene	++++ 2.9005	2.4281 2.7608	2.7418 2.6015	2.9063	2.6394	Ave		2.7112			6.3		20.0				
1,4-Dichlorobenzene	++++ 1.5792	1.4838 1.5446	1.6596 1.5077	1.5729	1.4963	Ave		1.5491		0.5000	4.0		20.0				
n-Butylbenzene	++++ 2.5480	2.1008 2.4093	2.5246 2.2616	2.3075	2.3035	Ave		2.3508			6.7		20.0				
1,2-Dichlorobenzene	++++ 1.4998	1.2804 1.4567	1.4691 1.4143	1.4441	1.4310	Ave		1.4279		0.4000	4.9		20.0				
1,2-Dibromo-3-Chloropropane	0.0881 0.1441	0.0861 0.1459	0.1196 0.1494	0.1383	0.1388	Lin1	-0.045	0.1480		0.0500				1.0000		0.9900	
1,2,4-Trichlorobenzene	++++ 1.1523	1.0347 1.1177	1.0368 1.0858	1.1511	1.0713	Ave		1.0928		0.2000	4.5		20.0				
Hexachlorobutadiene	++++ 0.5535	0.4535 0.5227	0.5516 0.5055	0.5581	0.5231	Ave		0.5240			7.0		20.0				
Naphthalene	2.7935 2.8345	2.5852 2.7908	2.8596 2.6944	2.7687	2.6654	Ave		2.7490			3.4		20.0				
1,2,3-Trichlorobenzene	++++ 1.0960	0.9345 1.0581	1.0418 1.0252	1.0813	1.0168	Ave		1.0363			5.1		20.0				
Dibromofluoromethane (Surr)	1.2677 1.2427	1.2283 1.3038	1.3210 1.2627	1.2649	1.2781	Ave		1.2712			2.4		20.0				
1,2-Dichloroethane-d4 (Surr)	0.7657 0.7324	0.7703 0.7674	0.8130 0.7641	0.7656	0.7731	Ave		0.7690			2.8		20.0				
Toluene-d8 (Surr)	2.4863 2.4636	2.5099 2.4793	2.5664 2.5024	2.4863	2.4820	Ave		2.4970			1.3		20.0				
4-Bromofluorobenzene (Surr)	0.8637 0.8575	0.8745 0.8758	0.8901 0.8662	0.8687	0.8575	Ave		0.8692			1.2		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-395114/4	S6363.D
Level 2	IC 480-395114/5	S6364.D
Level 3	IC 480-395114/6	S6365.D
Level 4	IC 480-395114/7	S6366.D
Level 5	IC 480-395114/8	S6367.D
Level 6	ICIS 480-395114/9	S6368.D
Level 7	IC 480-395114/10	S6369.D
Level 8	IC 480-395114/11	S6370.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 228866	7658 447656	18451 914056	33546	92111	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	4288 220489	9444 435912	19431 847109	40071	88708	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 249956	8976 480523	18730 953184	41486	93789	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	4439 225682	9904 434524	22964 836458	41104	91508	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 160386	8602 329202	14755 639100	32045	71215	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Lin1	6118 154565	8706 292256	12898 581997	31849	63651	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	++++ 354050	17000 688074	30260 1381233	58737	130164	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 295003	11434 549736	23623 1117793	46911	113070	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	++++ 175400	6206 344375	12546 690803	33148	64523	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 182386	9961 367719	16326 742443	38427	70388	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 172402	4531 357897	10597 714686	34011	71216	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	++++ 185007	5538 343170	13340 759077	34427	61755	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 366100	15341 763626	36906 1515206	69875	150653	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	++++ 331208	9696 680807	25765 1384918	61465	122384	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	++++ 617714	18556 1198937	43624 2431777	119601	228825	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	++++ 271400	11400 535550	19487 1099935	48690	96690	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Lin1	11836 253271	16314 578054	20949 1162544	57958	106246	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Ave	++++ 213740	10056 415017	19481 841028	41379	83172	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3450 177523	7081 418769	11174 838444	31150	66791	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	12644 666833	26145 1341184	50957 2660879	128388	251798	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 212704	6385 430248	17151 863205	42047	82025	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	13556 753242	29431 1512916	57855 3018045	147836	283372	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	++++ 287182	9670 540329	21556 1133503	58901	101601	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	++++ 344356	11143 684498	24880 1367268	64430	124699	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	++++ 767480	27343 1601215	55647 3172748	140026	292231	++++ 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	++++ 281488	10236 545293	20677 1090781	53361	104123	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	++++ 242221	8765 479168	18591 969744	45974	93434	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	++++ 514572	21306 981814	35621 1978443	93098	176677	++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2586 125955	3630 251259	9590 503161	24606	42985	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	++++ 126197	5428 250374	9041 523854	26747	47889	++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	6845 363814	13585 726226	27467 1461401	68854	134121	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	++++ 317603	10747 624899	23614 1269842	62315	115751	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	++++ 310432	9397 583599	22858 1231205	52122	107530	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	++++ 297697	9438 571861	21567 1181965	53197	104128	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	++++ 287865	9596 571011	19652 1161709	55667	105564	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	++++ 872548	31783 1708015	65258 3405384	165723	319996	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42

Calibration End Date: 01/10/2018 03:24

Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	4357 266833	11376 536145	13329 1109896	42758	99773	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	5455 281074	11084 555452	21666 1112826	52042	101591	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	++++ 288393	9919 542453	21816 1166252	53284	105097	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	++++ 232019	7429 459042	18062 906220	43135	86370	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	++++ 390127	11034 737359	26844 1525363	72006	141365	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	++++ 196585	7159 398784	15413 794508	36403	70535	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2593 136925	5361 270642	10860 555699	27015	49920	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	++++ 55816	450 111742	2577 234045	9431	22915	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	++++ 281780	9492 571539	20101 1161506	52921	104182	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 133089	4748 277966	8928 554979	24473	50050	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	++++ 338583	10283 691934	23924 1382509	60013	127464	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 1038179	39105 2049343	77955 3969955	193133	389686	++++ 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	++++ 573941	21022 1142634	45551 2279509	108887	217131	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 316408	10359 643636	20795 1330657	56578	112516	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	++++ 320765	10605 639803	21604 1271705	56185	117413	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3219 165136	5800 329923	12557 655334	31518	61862	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 281499	8276 551916	18639 1093313	52276	106167	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 345447	12295 683418	26969 1355048	67623	126250	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	15354 767444	29087 1556330	60371 3069448	156268	286409	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	++++ 227660	7039 464740	16445 960414	40719	83391	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3989 218358	8097 431800	15317 857263	39527	80000	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	++++ 655055	23011 1291015	49343 2556714	126344	246321	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 1090400	38382 2120818	78455 4067161	207445	411776	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 227187	7605 460688	17945 930808	44131	82876	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	++++ 450111	15861 885913	32483 1758300	84142	165553	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	++++ 424820	13478 843569	30635 1682319	80633	156264	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	++++ 729624	22967 1470378	54727 2886675	131925	268301	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2569 155329	4575 330533	10463 684016	27124	53310	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	++++ 1124832	38098 2161384	79703 4149484	214012	416894	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	++++ 305414	9974 593033	21457 1182211	58292	113870	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5367 262416	9200 543147	21962 1080627	51269	102449	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1890 93061	3674 186251	7536 366275	19301	36278	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	++++ 1281826	42578 2494331	90130 4614918	238344	478174	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 65419	1268 134285	3012 292231	8562	19499	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	++++ 272748	9336 534267	20129 1040944	50665	105666	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 949771	32512 1847863	67594 3511320	176244	352395	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	4909 285066	8864 563356	20427 1112388	53452	106801	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 222667	7809 447451	16414 859089	41762	82313	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	17031 971219	33077 1883643	71905 3587606	183445	356647	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 1206791	40141 2308921	88170 4335522	226916	447071	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 570133	18730 1120470	43075 2178348	108628	215058	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 1061450	34549 2056564	75358 3832555	208986	384983	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 00:42 Calibration End Date: 01/10/2018 03:24 Calibration ID: 32523

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 577920	21112 1150561	45613 2221187	113102	218249	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	++++ 932451	29892 1794741	69389 3331858	165924	335985	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 548845	18218 1085090	40379 2083589	103843	208718	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	626 52739	1225 108654	3287 220136	9946	20245	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 421678	14723 832573	28497 1599598	82771	156257	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 202553	6453 389378	15161 744780	40129	76304	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	19855 1037306	36784 2078900	78594 3969443	199091	388771	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 401086	13297 788196	28634 1510374	77754	148316	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	200653 207112	195129 209003	202738 210413	199814	203912	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	121187 122068	122372 123014	124776 127329	120931	123345	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	829921 843396	833778 835748	837535 860639	836148	840056	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	288286 293554	290513 295222	290468 297924	292156	290230	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Jan-2018 00:42:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0068466-004
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:16 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:53:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	158275	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	82	333792	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	93	355383	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	80	200653	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	121187	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	829921	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.001	95	288286	25.0	24.8	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	28	2259	0.5000	0.2670	
12 Chloromethane	50	1.482	1.488	-0.006	39	4288	0.5000	0.4910	
13 Vinyl chloride	62	1.574	1.574	0.000	21	3242	0.5000	0.3532	
151 Butadiene	54	1.568	1.598	-0.030	0	4439	0.5000	0.4865	
14 Bromomethane	94	1.908	1.902	0.006	31	5112	0.5000	0.7404	
15 Chloroethane	64	1.975	1.993	-0.018	1	6118	0.5000	0.5123	
16 Dichlorofluoromethane	67	2.219	2.212	0.006	33	4521	0.5000	0.3250	
17 Trichlorofluoromethane	101	2.219	2.225	-0.007	1	2934	0.5000	0.2672	M
18 Ethyl ether	59	2.535	2.535	0.000	67	3496	0.5000	0.5352	
20 Acrolein	56	2.699	2.711	-0.012	62	5481	2.50	3.53	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.736	-0.006	1	847	0.5000	0.1339	M
22 1,1-Dichloroethene	96	2.748	2.754	-0.006	39	2147	0.5000	0.3236	
23 Acetone	43	2.882	2.875	0.007	84	14317	2.50	4.70	M
25 Iodomethane	142	2.906	2.912	-0.006	74	4934	0.5000	0.3989	
26 Carbon disulfide	76	2.955	2.955	0.000	90	8219	0.5000	0.3644	
28 3-Chloro-1-propene	41	3.137	3.131	0.006	30	7180	0.5000	0.6972	
27 Methyl acetate	43	3.198	3.180	0.018	70	11836	1.00	1.30	
30 Methylene Chloride	84	3.271	3.271	0.000	56	7245	0.5000	0.8326	
31 2-Methyl-2-propanol	59	3.453	3.441	0.012	37	3450	5.00	4.97	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	69	12644	0.5000	0.4924	
34 trans-1,2-Dichloroethene	96	3.502	3.508	-0.006	34	3487	0.5000	0.4317	
33 Acrylonitrile	53	3.569	3.557	0.012	81	13556	5.00	4.69	
35 Hexane	57	3.715	3.715	0.000	48	3753	0.5000	0.3504	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	40	5472	0.5000	0.4314	
37 Vinyl acetate	43	3.989	3.983	0.006	75	17650	1.00	1.21	
44 2,2-Dichloropropane	77	4.469	4.457	0.012	25	4001	0.5000	0.3800	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	22	4174	0.5000	0.4518	
43 2-Butanone (MEK)	43	4.549	4.524	0.025	75	12593	2.50	3.30	
48 Chlorobromomethane	128	4.725	4.725	0.000	47	2586	0.5000	0.5523	
49 Tetrahydrofuran	42	4.774	4.755	0.019	57	3478	1.00	1.40	
50 Chloroform	83	4.792	4.798	-0.006	40	6845	0.5000	0.4954	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	21	4286	0.5000	0.3601	
52 Cyclohexane	56	4.926	4.938	-0.012	9	3593	0.5000	0.3255	
55 Carbon tetrachloride	117	5.066	5.059	0.007	56	3335	0.5000	0.3098	
54 1,1-Dichloropropene	75	5.072	5.078	-0.006	1	3676	0.5000	0.3451	
57 Benzene	78	5.285	5.278	0.007	35	13895	0.5000	0.4238	
53 Isobutyl alcohol	43	5.291	5.278	0.013	17	4357	12.5	11.4	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	19	5455	0.5000	0.5083	
59 n-Heptane	43	5.467	5.467	0.000	60	2910	0.5000	0.2717	
62 Trichloroethene	95	5.893	5.893	0.000	51	2822	0.5000	0.3270	
64 Methylcyclohexane	83	6.009	6.015	-0.006	36	4526	0.5000	0.3261	
65 1,2-Dichloropropane	63	6.130	6.124	0.006	42	3401	0.5000	0.4555	
67 Dibromomethane	93	6.276	6.264	0.012	53	2593	0.5000	0.4902	
66 1,4-Dioxane	88		6.282				ND	ND	
68 Dichlorobromomethane	83	6.416	6.416	0.000	10	4515	0.5000	0.4283	
69 2-Chloroethyl vinyl ether	63	6.708	6.696	0.012	9	1478	0.5000	0.2954	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	44	5140	0.5000	0.4140	
73 4-Methyl-2-pentanone (MIBK)	43	6.988	6.976	0.012	80	17738	2.50	2.25	
74 Toluene	92	7.122	7.128	-0.006	50	9043	0.5000	0.4095	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	38	4540	0.5000	0.3906	
75 Ethyl methacrylate	69	7.463	7.450	0.013	32	4201	0.5000	0.3588	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	25	3219	0.5000	0.5112	
81 Tetrachloroethene	166	7.663	7.663	0.000	50	3509	0.5000	0.3449	
82 1,3-Dichloropropane	76	7.761	7.755	0.007	36	6973	0.5000	0.5295	
80 2-Hexanone	43	7.828	7.815	0.013	84	15354	2.50	2.55	
83 Chlorodibromomethane	129	7.992	7.986	0.006	24	3420	0.5000	0.4044	
84 Ethylene Dibromide	107	8.095	8.095	0.000	50	3989	0.5000	0.4904	
87 Chlorobenzene	112	8.576	8.576	0.000	21	10472	0.5000	0.4221	
88 Ethylbenzene	91	8.673	8.667	0.006	25	19547	0.5000	0.4810	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	1	3482	0.5000	0.4011	
90 m-Xylene & p-Xylene	106	8.795	8.789	0.006	0	6168	0.5000	0.3667	
91 o-Xylene	106	9.221	9.221	0.000	52	6703	0.5000	0.4257	
92 Styrene	104	9.245	9.245	0.000	49	10516	0.5000	0.3889	
95 Bromoform	173	9.488	9.488	0.000	15	2569	0.5000	0.4570	
94 Isopropylbenzene	105	9.598	9.598	0.000	46	17680	0.5000	0.4309	
101 Bromobenzene	156	9.951	9.939	0.013	47	4985	0.5000	0.4458	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.981	0.006	3	5367	0.5000	0.5211	
100 1,2,3-Trichloropropane	110	10.024	10.018	0.006	12	1890	0.5000	0.5142	
99 N-Propylbenzene	91	10.024	10.024	0.000	79	20670	0.5000	0.4455	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	0	413	0.5000	0.2016	M
103 2-Chlorotoluene	126	10.127	10.127	0.000	54	3977	0.5000	0.3927	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	52	14453	0.5000	0.4169	
105 4-Chlorotoluene	126	10.237	10.237	0.000	35	4909	0.5000	0.4745	
106 tert-Butylbenzene	134	10.510	10.510	0.000	52	3527	0.5000	0.4253	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	50	17031	0.5000	0.4804	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	45	18465	0.5000	0.4212	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	42	9226	0.5000	0.4364	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	58	13564	0.5000	0.3519	
113 1,4-Dichlorobenzene	146	10.936	10.942	-0.006	15	10025	0.5000	0.4552	
115 n-Butylbenzene	91	11.247	11.246	0.001	62	12331	0.5000	0.3690	
116 1,2-Dichlorobenzene	146	11.295	11.289	0.006	56	9076	0.5000	0.4471	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.013	0.006	1	626	0.5000	0.6013	M
119 1,2,4-Trichlorobenzene	180	12.694	12.688	0.006	29	6336	0.5000	0.4079	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	8	2883	0.5000	0.3870	
121 Naphthalene	128	12.907	12.901	0.006	64	19855	0.5000	0.5081	
122 1,2,3-Trichlorobenzene	180	13.108	13.102	0.006	39	6025	0.5000	0.4090	
S 124 Xylenes, Total	1				0			0.7924	
S 123 Total BTEX	1				0			2.11	
S 126 1,3-Dichloropropene, Total	1				0			0.8045	
S 125 1,2-Dichloroethene, Total	1				0			0.8834	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118	Amount Added: 0.50	Units: uL	
GAS CORP mix_00259	Amount Added: 0.50	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D

Injection Date: 10-Jan-2018 00:42:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 0.5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

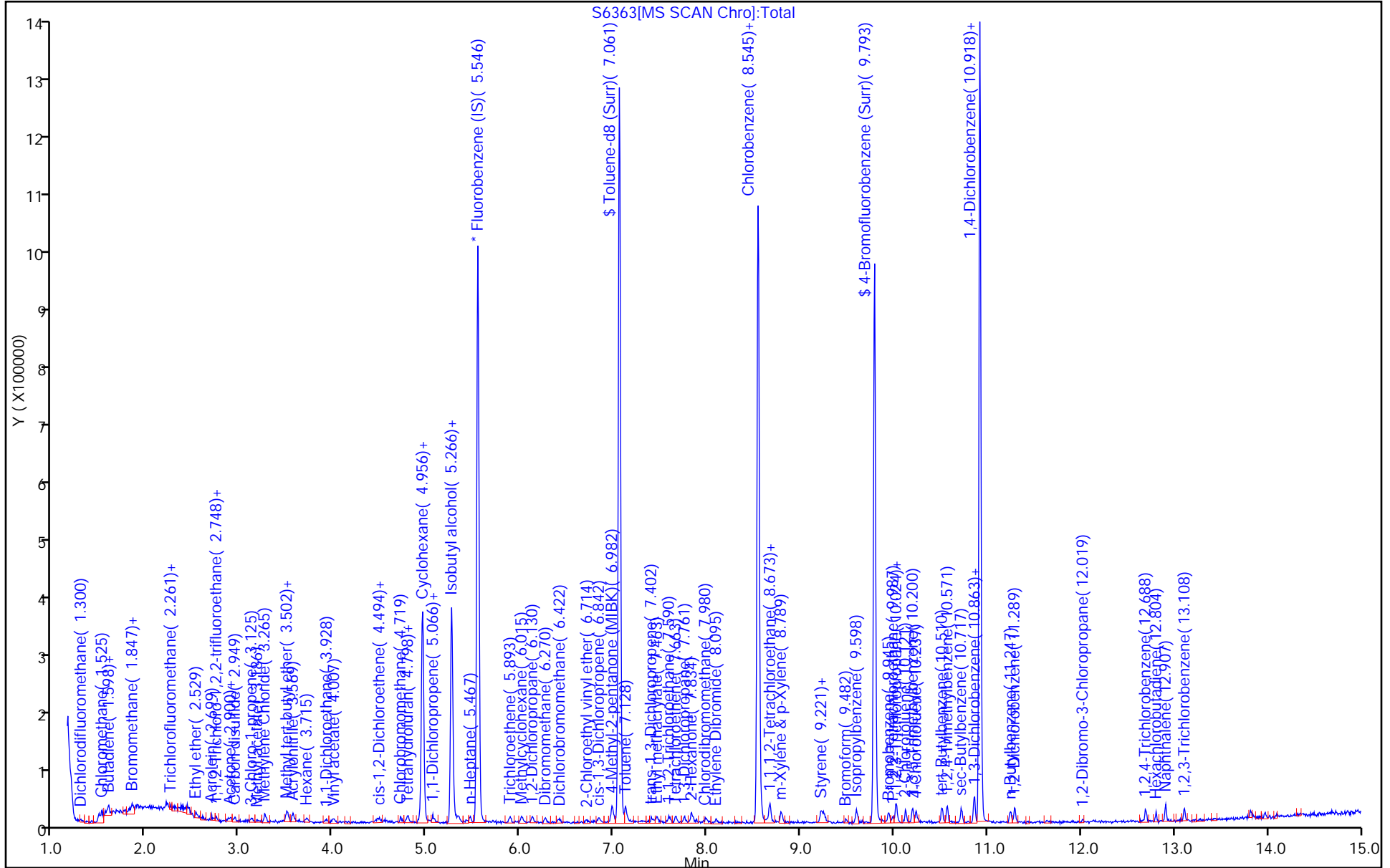
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

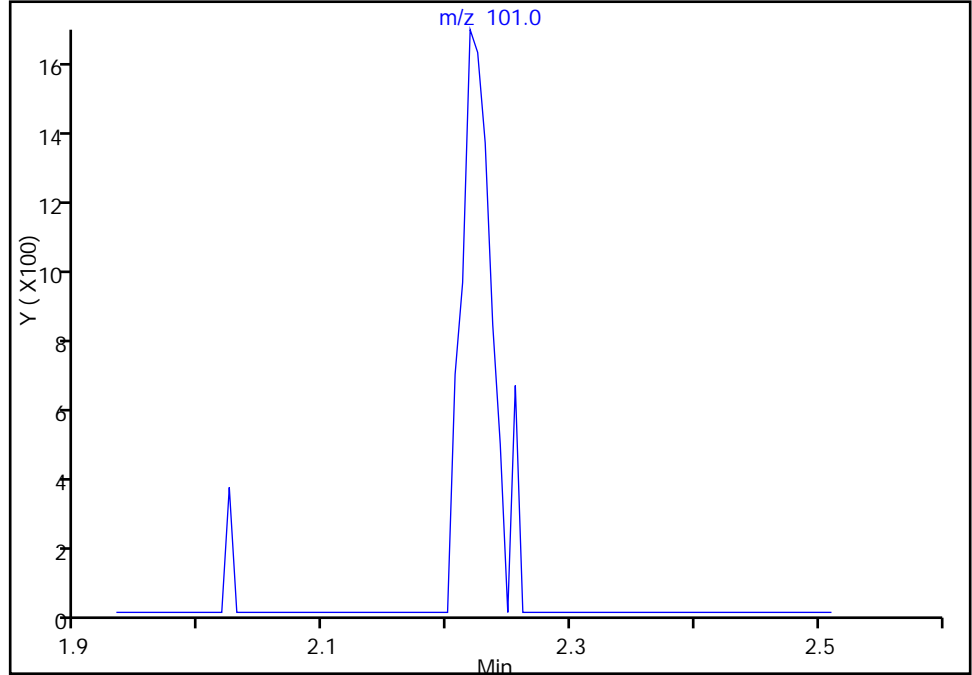
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

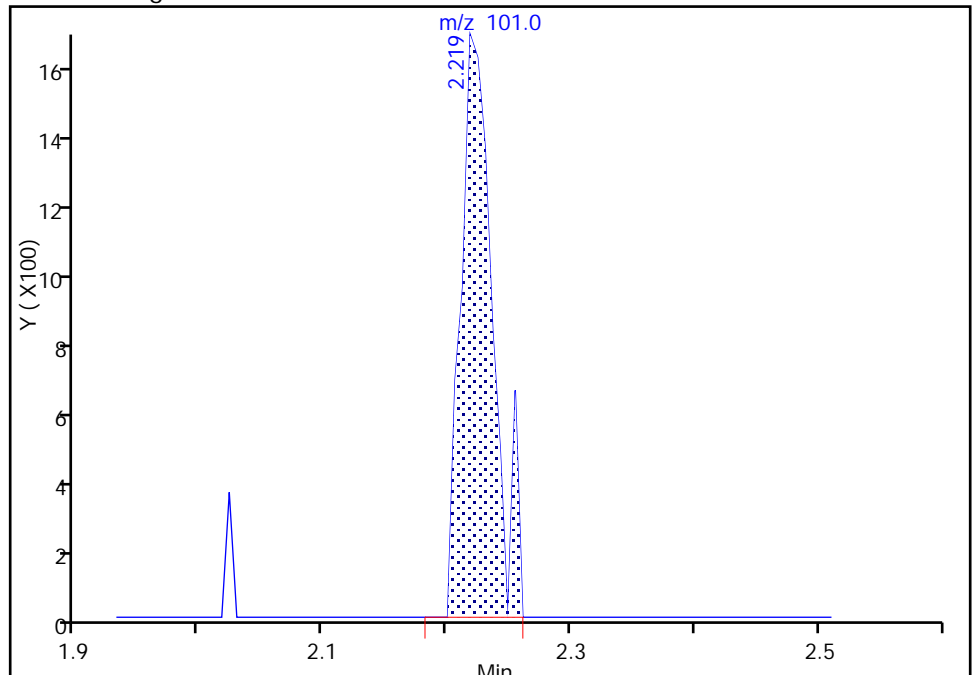
Not Detected
Expected RT: 2.22

Processing Integration Results



Manual Integration Results

RT: 2.22
Area: 2934
Amount: 0.267177
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:10:45
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

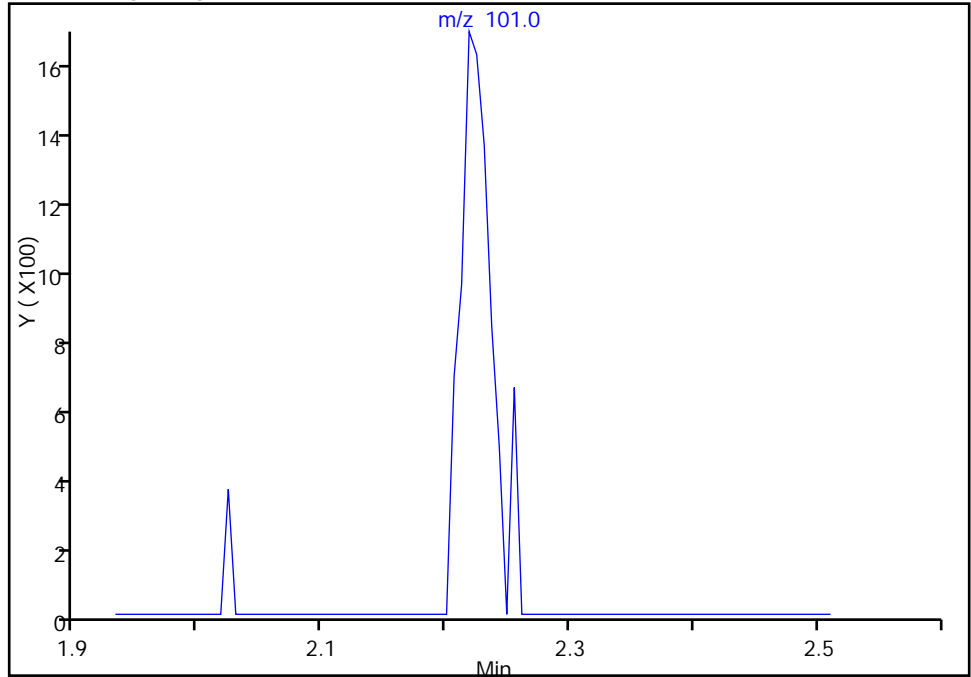
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

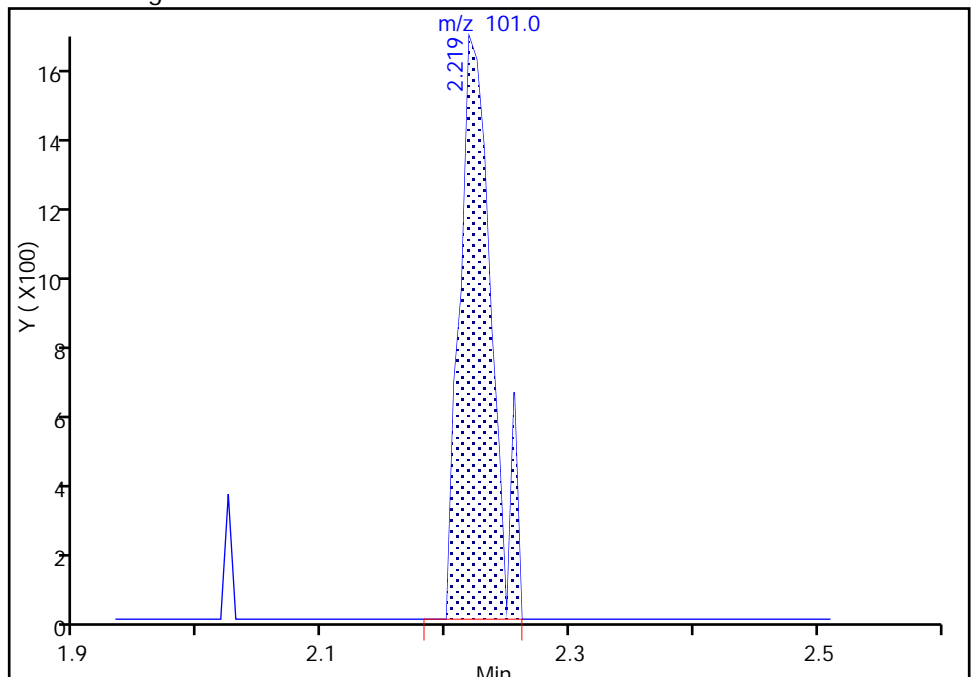
Not Detected
Expected RT: 2.22

Processing Integration Results



Manual Integration Results

RT: 2.22
Area: 2934
Amount: 0.267177
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:10:52

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

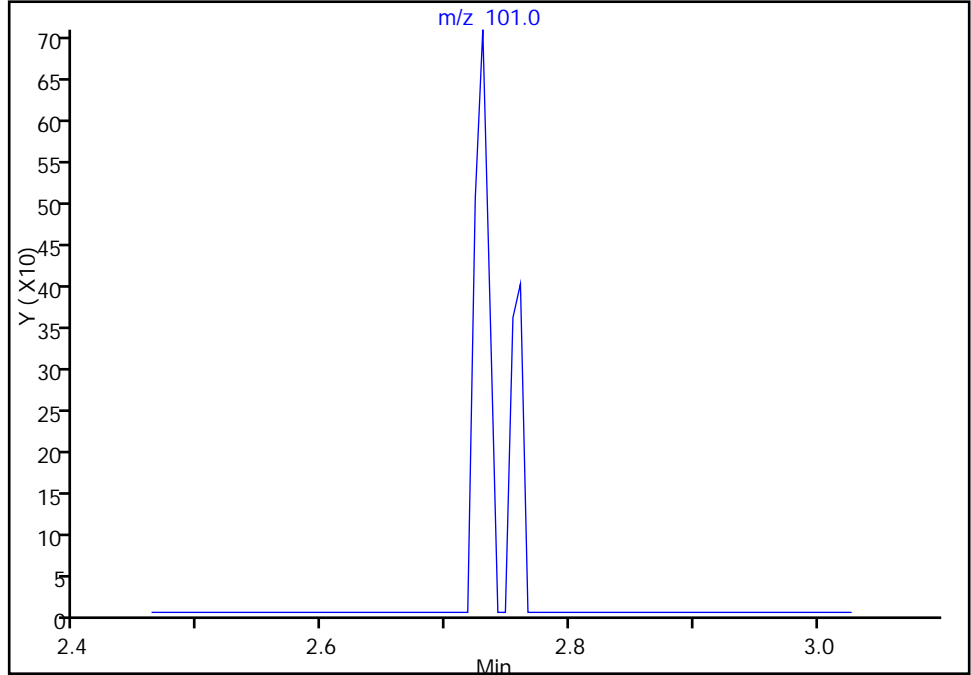
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

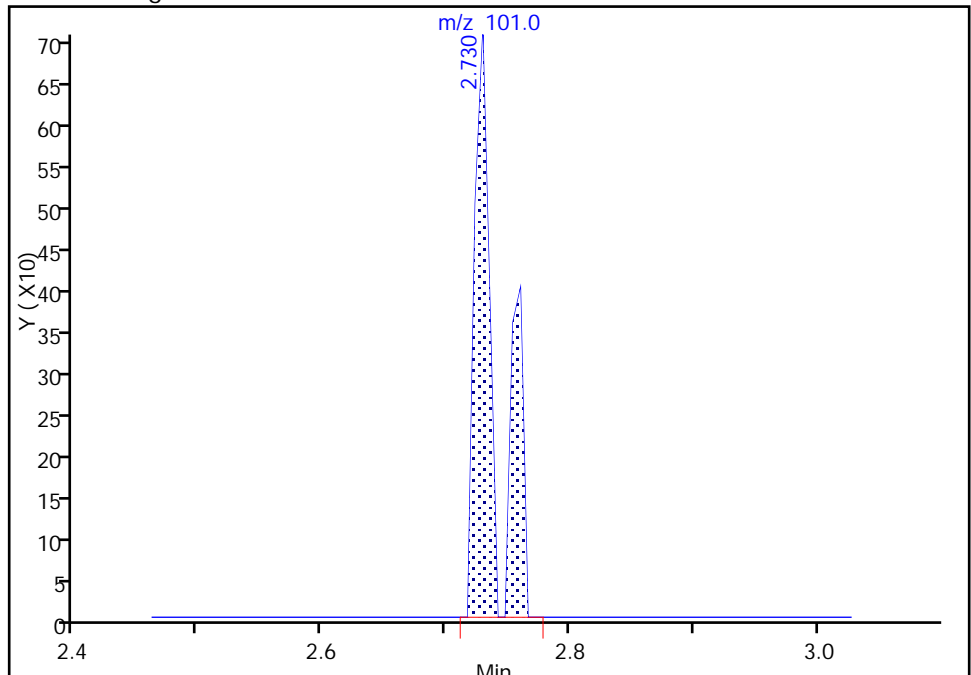
Signal: 1

Not Detected
Expected RT: 2.74

Processing Integration Results



Manual Integration Results



RT: 2.73
Area: 847
Amount: 0.133945
Amount Units: ug/L

Reviewer: farrellr, 10-Jan-2018 09:10:57
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

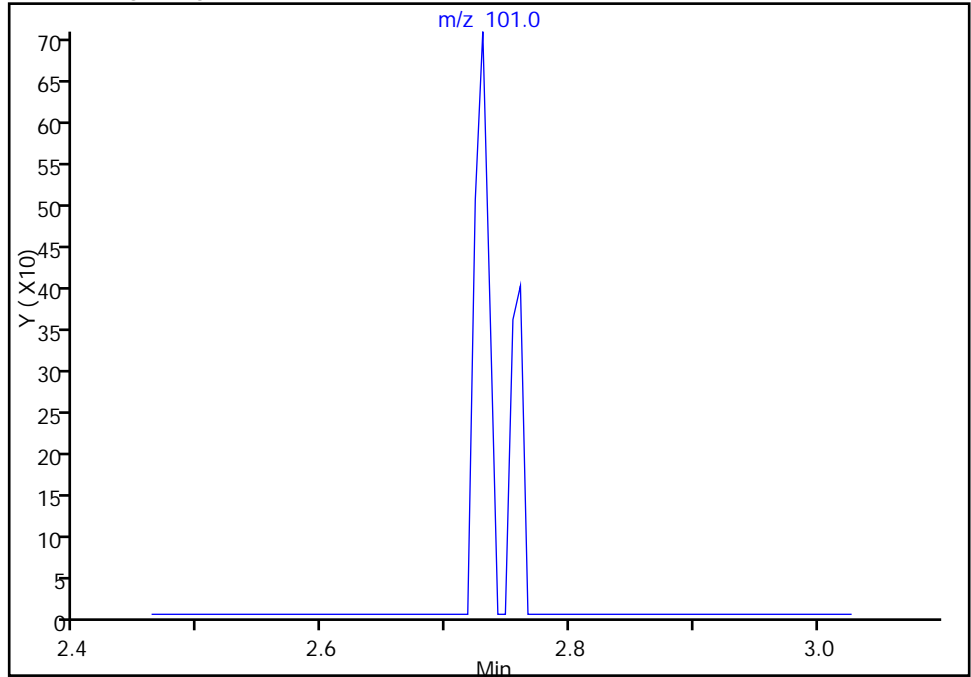
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

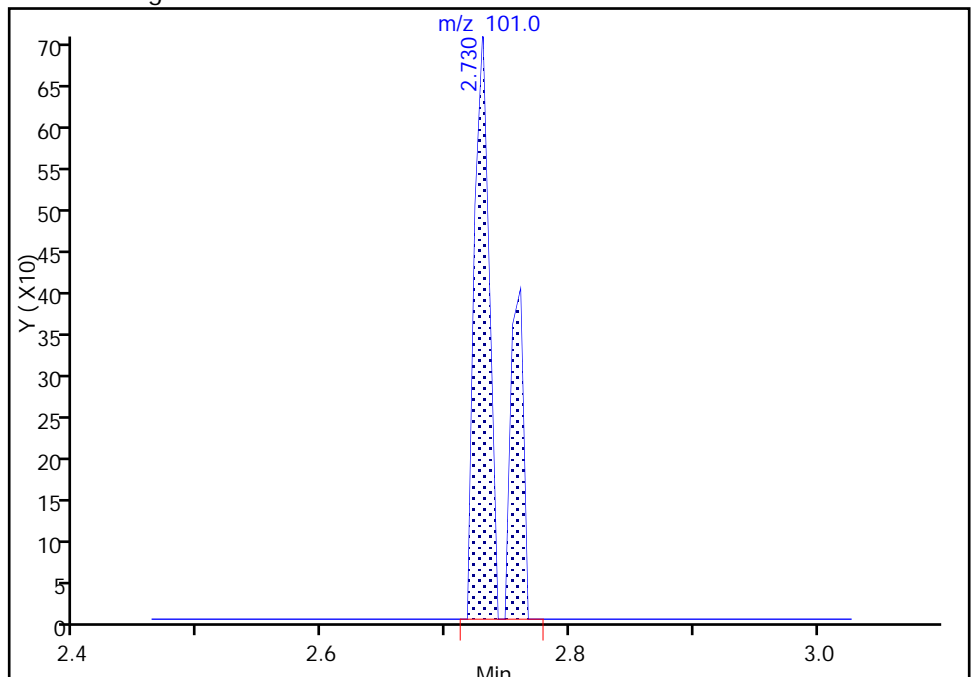
Not Detected
Expected RT: 2.74

Processing Integration Results



Manual Integration Results

RT: 2.73
Area: 847
Amount: 0.133945
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:11:04

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

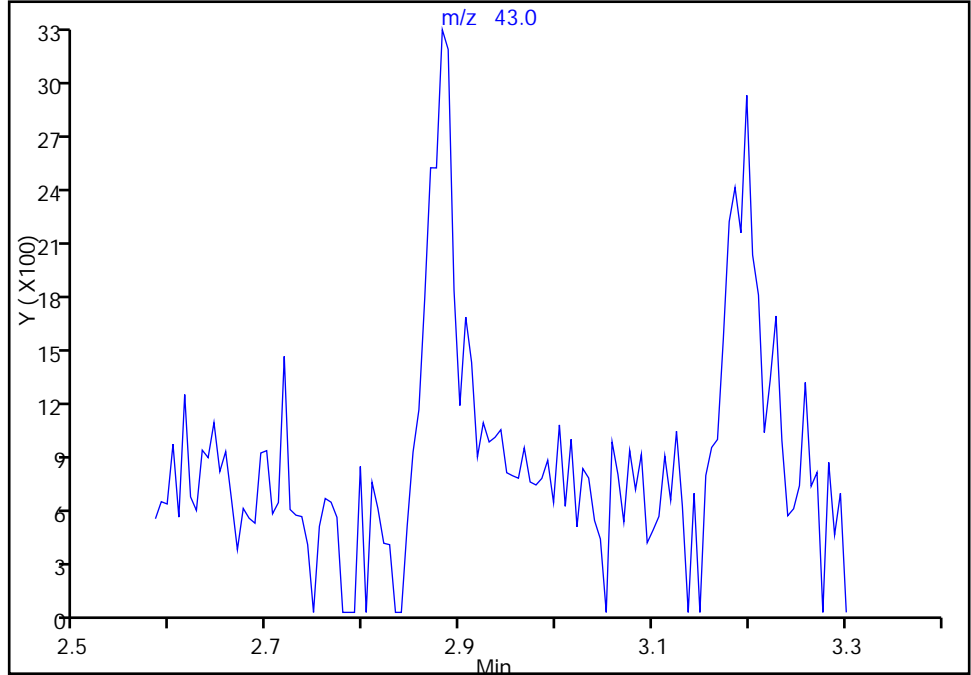
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

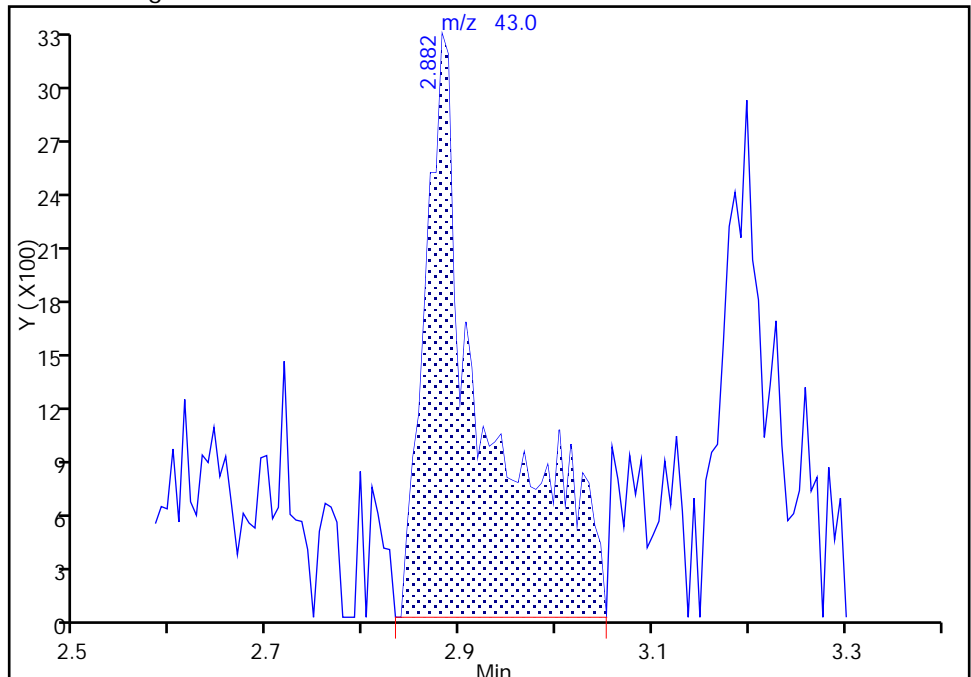
Not Detected
Expected RT: 2.88

Processing Integration Results



Manual Integration Results

RT: 2.88
Area: 14317
Amount: 4.698851
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:11:09
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

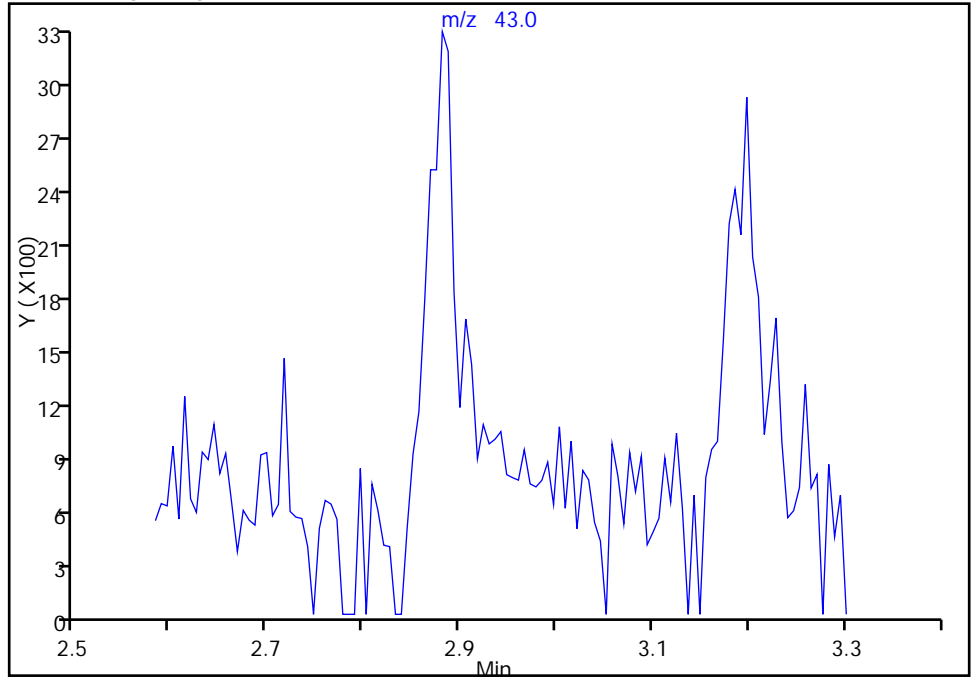
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

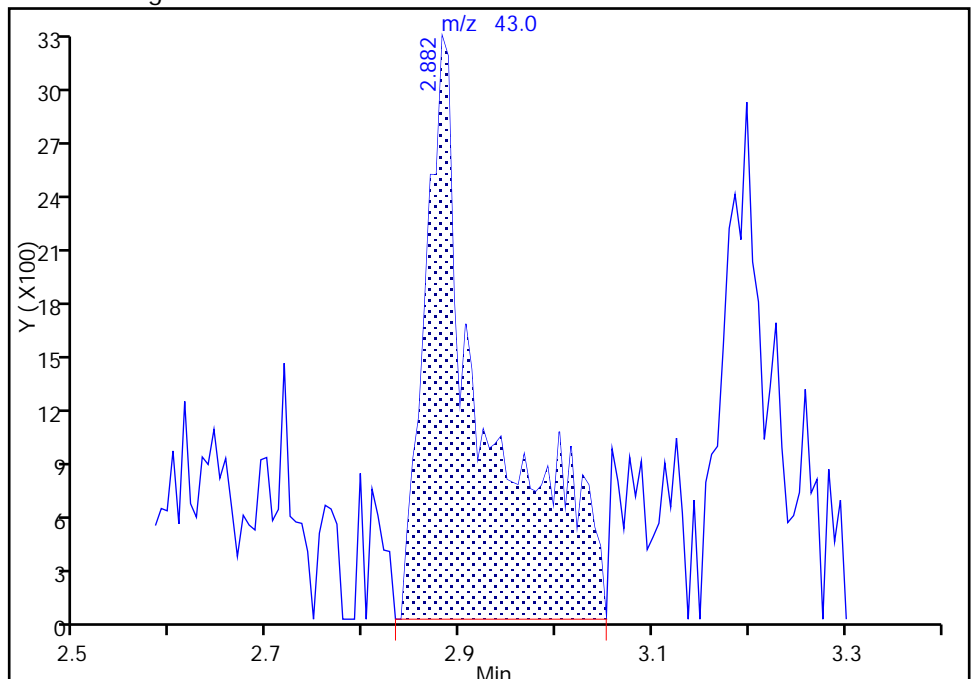
Signal: 1

Not Detected
Expected RT: 2.88

Processing Integration Results



Manual Integration Results



RT: 2.88
Area: 14317
Amount: 4.698851
Amount Units: ug/L

Reviewer: farrellr, 10-Jan-2018 09:11:40

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

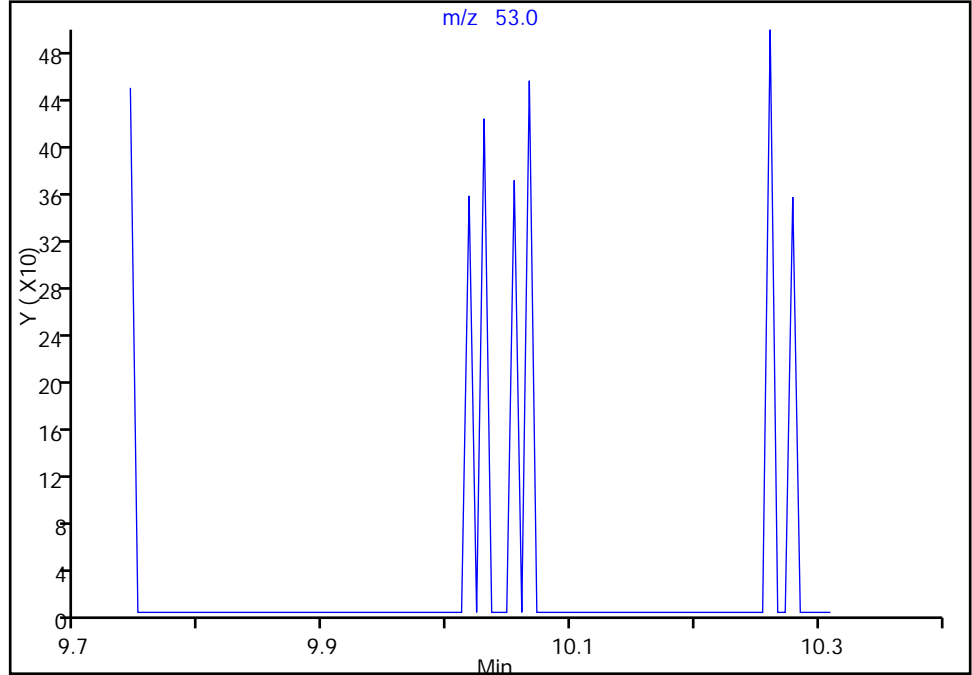
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

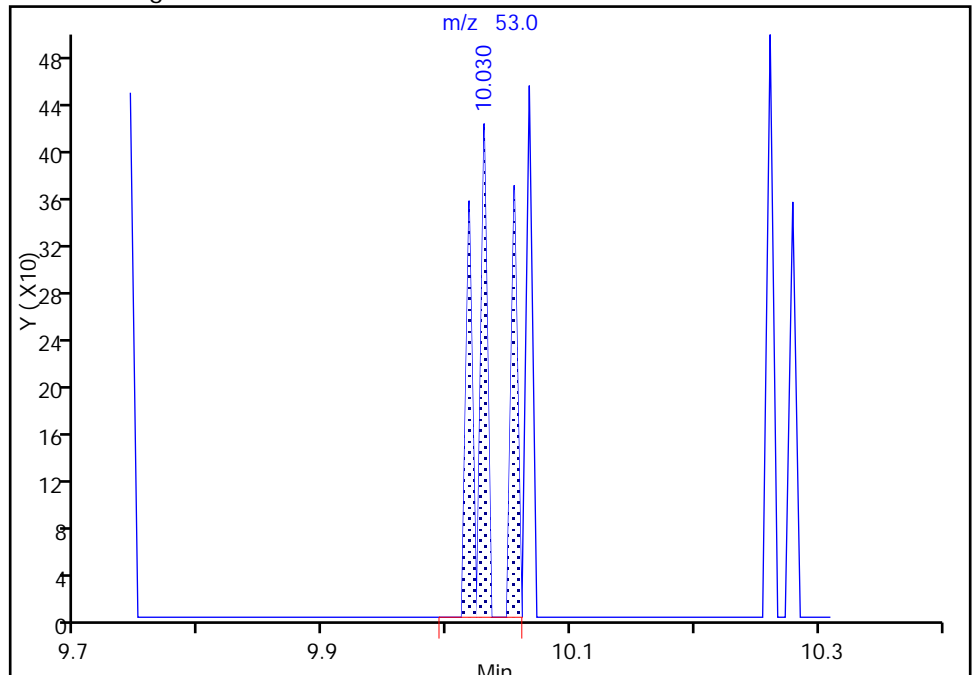
Signal: 1

Not Detected
Expected RT: 10.04

Processing Integration Results



Manual Integration Results



RT: 10.03
Area: 413
Amount: 0.201588
Amount Units: ug/L

Reviewer: farrellr, 10-Jan-2018 09:13:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

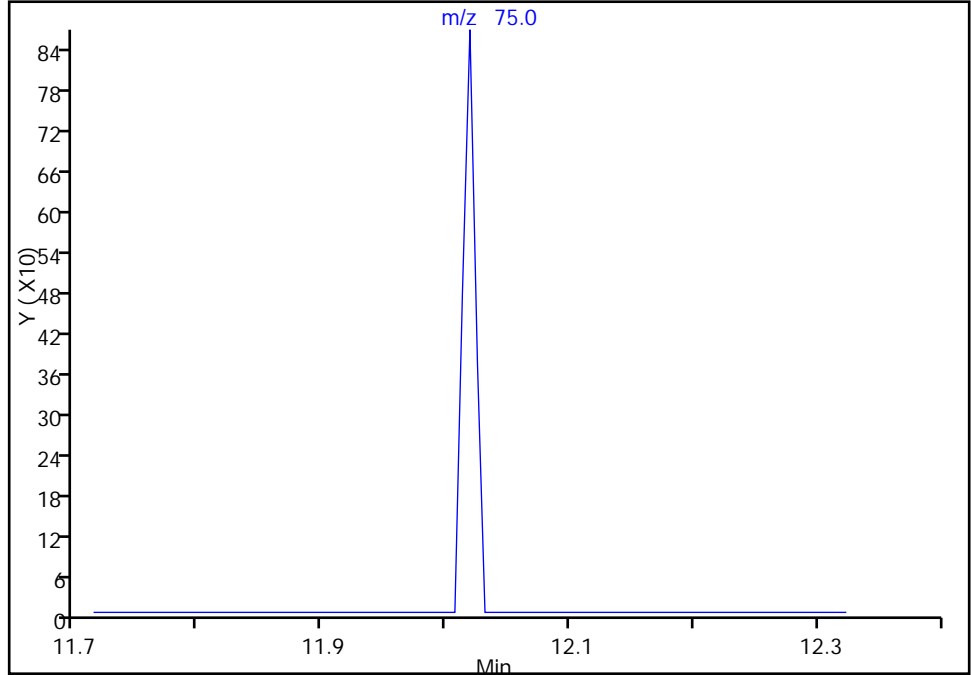
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

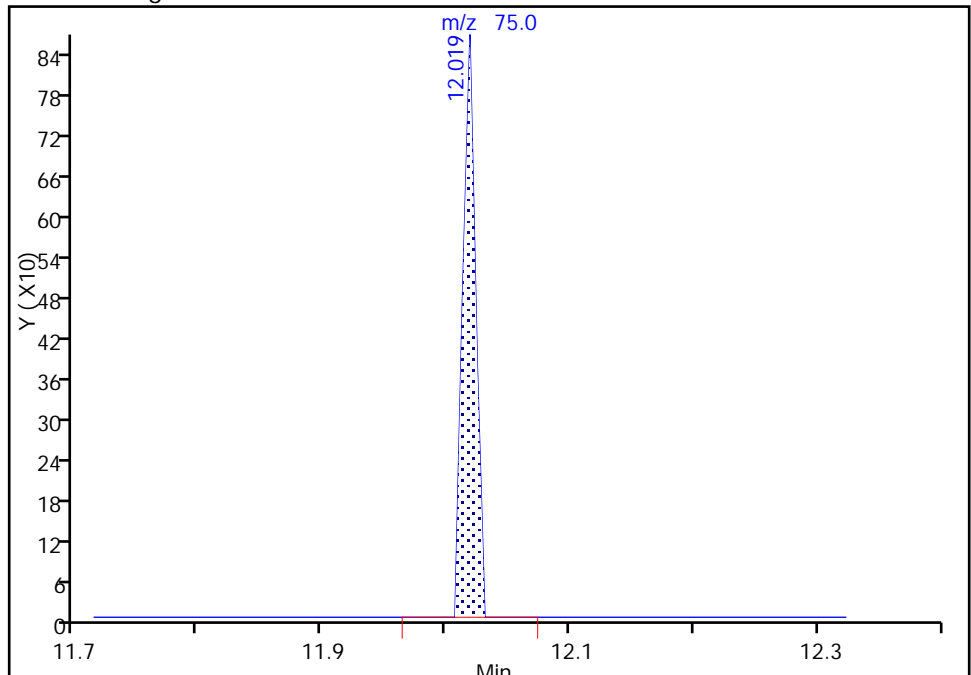
Not Detected
Expected RT: 12.01

Processing Integration Results



RT: 12.02
Area: 626
Amount: 0.601330
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:13:24
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

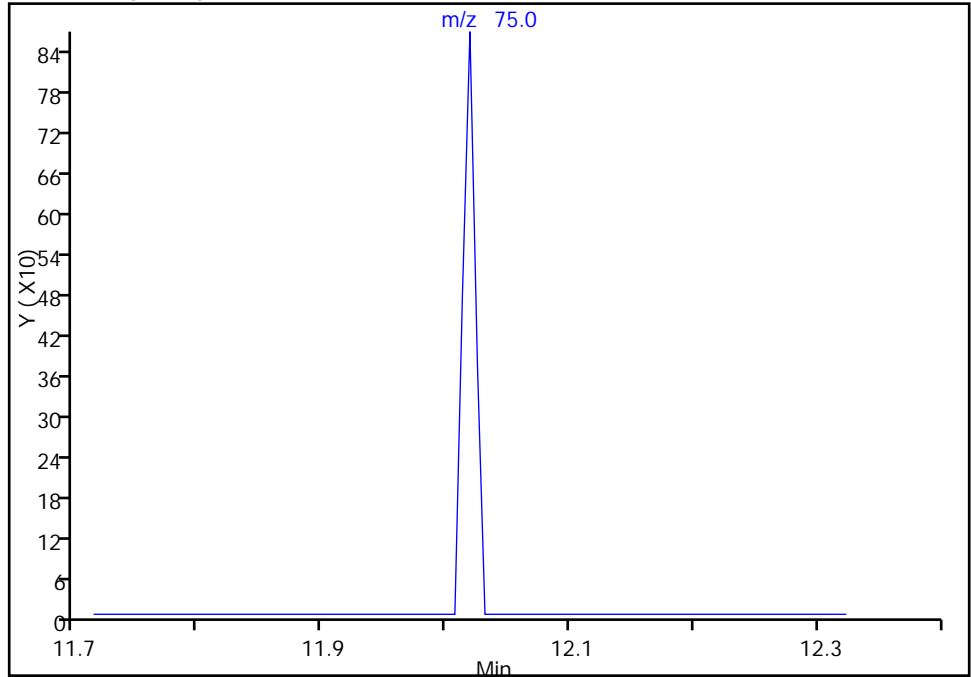
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6363.D
Injection Date: 10-Jan-2018 00:42:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

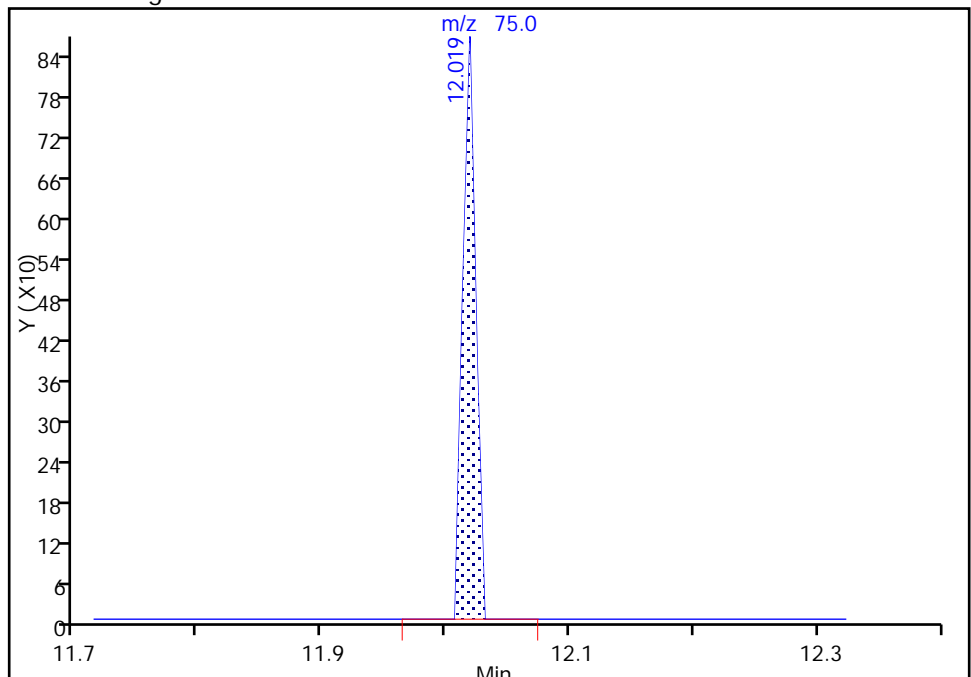
Not Detected
Expected RT: 12.01

Processing Integration Results



RT: 12.02
Area: 626
Amount: 0.601330
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:13:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Jan-2018 01:05:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0068466-005
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:19 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:54:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	158862	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	84	332195	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	92	355717	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	72	195129	25.0	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	122372	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	833778	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.001	96	290513	25.0	25.2	
10 Dichlorodifluoromethane	85	1.294	1.300	-0.006	57	7658	1.00	0.9018	
12 Chloromethane	50	1.488	1.488	0.000	42	9444	1.00	1.08	
13 Vinyl chloride	62	1.568	1.574	-0.006	28	8976	1.00	0.9742	
151 Butadiene	54	1.598	1.598	0.000	86	9904	1.00	1.08	
14 Bromomethane	94	1.902	1.902	0.000	61	8602	1.00	1.24	
15 Chloroethane	64	1.987	1.993	-0.006	64	8706	1.00	0.9680	
16 Dichlorofluoromethane	67	2.212	2.212	0.000	72	17000	1.00	1.22	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	69	11434	1.00	1.04	
18 Ethyl ether	59	2.529	2.535	-0.006	78	6206	1.00	0.9466	
20 Acrolein	56	2.711	2.711	0.000	57	9961	5.00	6.40	
21 1,1,2-Trichloro-1,2,2-trif	101	2.742	2.736	0.006	21	4531	1.00	0.7139	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	53	5538	1.00	0.8317	
23 Acetone	43	2.876	2.875	0.001	86	15341	5.00	5.02	
25 Iodomethane	142	2.918	2.912	0.006	72	9696	1.00	0.7810	
26 Carbon disulfide	76	2.949	2.955	-0.006	79	18556	1.00	0.8196	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	70	11400	1.00	1.10	
27 Methyl acetate	43	3.192	3.180	0.012	91	16314	2.00	2.12	
30 Methylene Chloride	84	3.271	3.271	0.000	80	10056	1.00	1.15	
31 2-Methyl-2-propanol	59	3.453	3.441	0.012	64	7081	10.0	10.2	
32 Methyl tert-butyl ether	73	3.508	3.496	0.012	72	26145	1.00	1.01	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	51	6385	1.00	0.7875	
33 Acrylonitrile	53	3.563	3.557	0.006	95	29431	10.0	10.1	
35 Hexane	57	3.721	3.715	0.006	71	9670	1.00	0.8995	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.934	3.928	0.006	27	11143	1.00	0.8752	
37 Vinyl acetate	43	3.995	3.983	0.012	94	27343	2.00	1.87	
44 2,2-Dichloropropane	77	4.451	4.457	-0.006	49	10236	1.00	0.9686	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	20	8765	1.00	0.9451	
43 2-Butanone (MEK)	43	4.549	4.524	0.025	89	21306	5.00	5.56	
48 Chlorobromomethane	128	4.725	4.725	0.000	68	3630	1.00	0.7725	
49 Tetrahydrofuran	42	4.774	4.755	0.019	67	5428	2.00	2.17	M
50 Chloroform	83	4.804	4.798	0.006	64	13585	1.00	0.9796	
51 1,1,1-Trichloroethane	97	4.926	4.920	0.006	61	10747	1.00	0.8995	
52 Cyclohexane	56	4.944	4.938	0.006	4	9397	1.00	0.8481	
55 Carbon tetrachloride	117	5.060	5.059	0.001	65	9438	1.00	0.8736	
54 1,1-Dichloropropene	75	5.072	5.078	-0.006	61	9596	1.00	0.8975	
53 Isobutyl alcohol	43	5.297	5.278	0.019	36	11376	25.0	29.6	
57 Benzene	78	5.279	5.278	0.001	49	31783	1.00	0.9659	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	56	11084	1.00	1.03	
59 n-Heptane	43	5.461	5.467	-0.006	69	9919	1.00	0.9226	
62 Trichloroethene	95	5.893	5.893	0.000	73	7429	1.00	0.8576	
64 Methylcyclohexane	83	6.021	6.015	0.006	63	11034	1.00	0.7920	
65 1,2-Dichloropropane	63	6.130	6.124	0.006	61	7159	1.00	0.9553	
67 Dibromomethane	93	6.276	6.264	0.012	74	5361	1.00	1.01	
66 1,4-Dioxane	88	6.295	6.282	0.012	1	450	20.0	19.9	M
68 Dichlorobromomethane	83	6.422	6.416	0.006	37	9492	1.00	0.8972	
69 2-Chloroethyl vinyl ether	63	6.702	6.696	0.006	28	4748	1.00	0.9456	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	59	10283	1.00	0.8252	
73 4-Methyl-2-pentanone (MIBK)	43	6.982	6.976	0.006	87	39105	5.00	4.99	
74 Toluene	92	7.128	7.128	0.000	72	21022	1.00	0.9565	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	61	10359	1.00	0.8954	
75 Ethyl methacrylate	69	7.456	7.450	0.006	65	10605	1.00	0.9101	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	60	5800	1.00	0.9254	
81 Tetrachloroethene	166	7.663	7.663	0.000	87	8276	1.00	0.8174	
82 1,3-Dichloropropane	76	7.755	7.755	0.001	52	12295	1.00	0.9382	
80 2-Hexanone	43	7.828	7.815	0.013	87	29087	5.00	4.86	
83 Chlorodibromomethane	129	7.992	7.986	0.006	38	7039	1.00	0.8364	
84 Ethylene Dibromide	107	8.095	8.095	0.000	60	8097	1.00	1.00	
87 Chlorobenzene	112	8.576	8.576	0.000	90	23011	1.00	0.9320	
88 Ethylbenzene	91	8.673	8.667	0.006	35	38382	1.00	0.9490	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	28	7605	1.00	0.8802	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	15861	1.00	0.9475	
91 o-Xylene	106	9.221	9.221	0.000	83	13478	1.00	0.8600	
92 Styrene	104	9.251	9.245	0.006	84	22967	1.00	0.8533	
95 Bromoform	173	9.501	9.488	0.013	45	4575	1.00	0.8178	
94 Isopropylbenzene	105	9.604	9.598	0.006	79	38098	1.00	0.9277	
101 Bromobenzene	156	9.945	9.939	0.007	78	9974	1.00	0.8912	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.981	0.006	53	9200	1.00	0.8925	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	27	3674	1.00	1.00	
99 N-Propylbenzene	91	10.024	10.024	0.000	90	42578	1.00	0.9168	
98 trans-1,4-Dichloro-2-buten	53	10.048	10.036	0.012	1	1268	1.00	0.6183	
103 2-Chlorotoluene	126	10.127	10.127	0.000	82	9336	1.00	0.9211	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	81	32512	1.00	0.9370	
105 4-Chlorotoluene	126	10.237	10.237	0.000	67	8864	1.00	0.8559	
106 tert-Butylbenzene	134	10.517	10.510	0.006	70	7809	1.00	0.9408	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	60	33077	1.00	0.9321	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.717	10.723	-0.006	66	40141	1.00	0.9147	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	62	18730	1.00	0.8852	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	91	34549	1.00	0.8956	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	15	21112	1.00	0.9578	
115 n-Butylbenzene	91	11.240	11.246	-0.006	83	29892	1.00	0.8937	
116 1,2-Dichlorobenzene	146	11.295	11.289	0.006	72	18218	1.00	0.8967	
117 1,2-Dibromo-3-Chloropropan	75	12.007	12.013	-0.006	1	1225	1.00	0.8854	
119 1,2,4-Trichlorobenzene	180	12.694	12.688	0.006	56	14723	1.00	0.9469	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	54	6453	1.00	0.8655	
121 Naphthalene	128	12.907	12.901	0.006	88	36784	1.00	0.9404	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	69	13297	1.00	0.9018	
S 126 1,3-Dichloropropene, Total	1				0			1.72	
S 125 1,2-Dichloroethene, Total	1				0			1.73	
S 124 Xylenes, Total	1				0			1.81	
S 123 Total BTEX	1				0			4.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 1.00

Units: uL

GAS CORP mix_00259

Amount Added: 1.00

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D

Injection Date: 10-Jan-2018 01:05:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

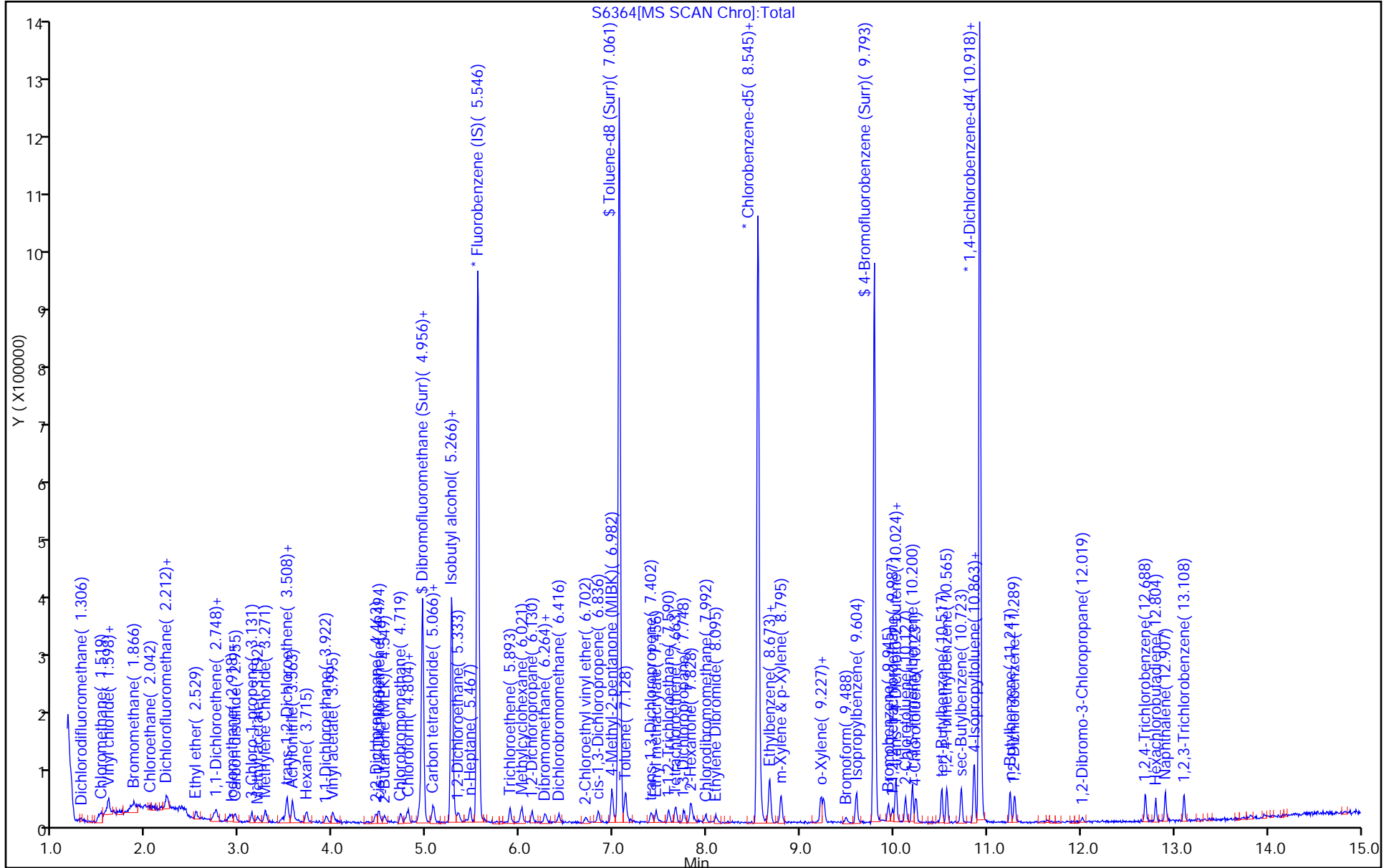
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

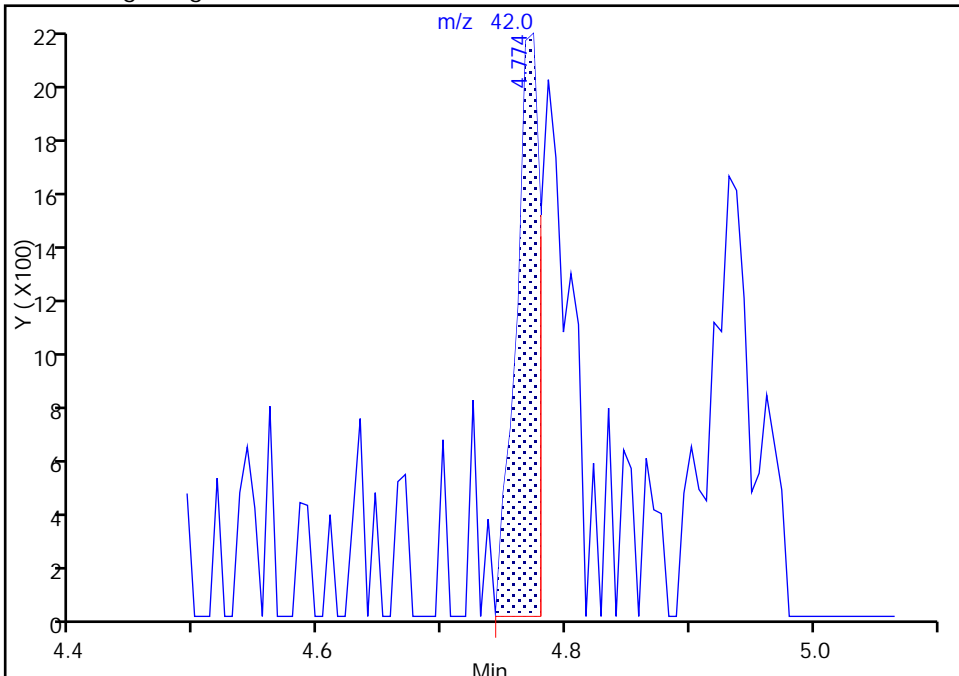
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Injection Date: 10-Jan-2018 01:05:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: AS ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

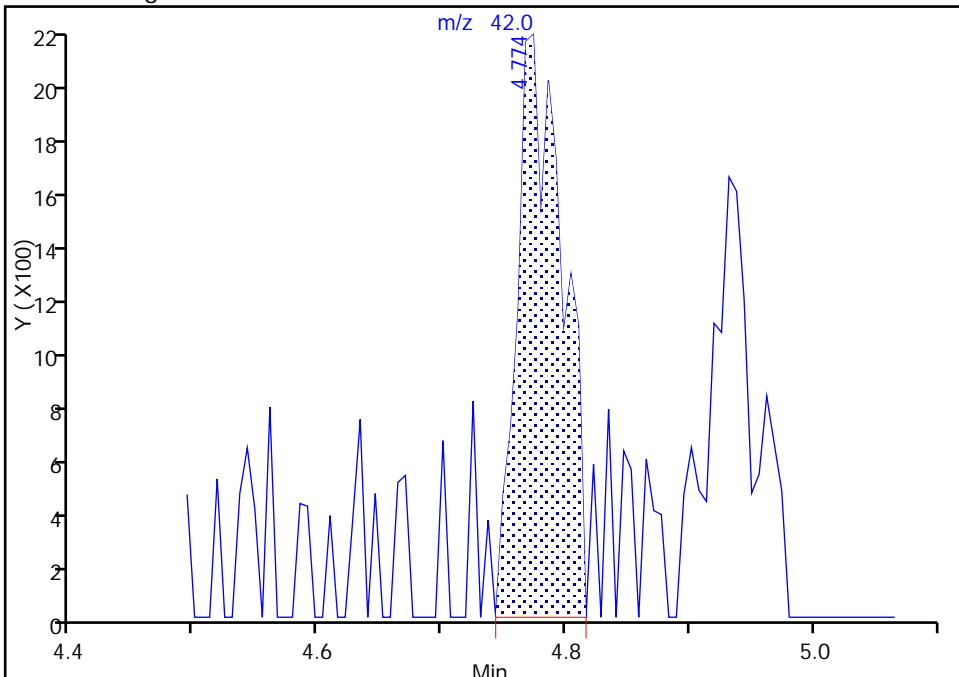
RT: 4.77
Area: 2892
Amount: 1.172337
Amount Units: ug/L

Processing Integration Results



RT: 4.77
Area: 5428
Amount: 2.169707
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:14:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

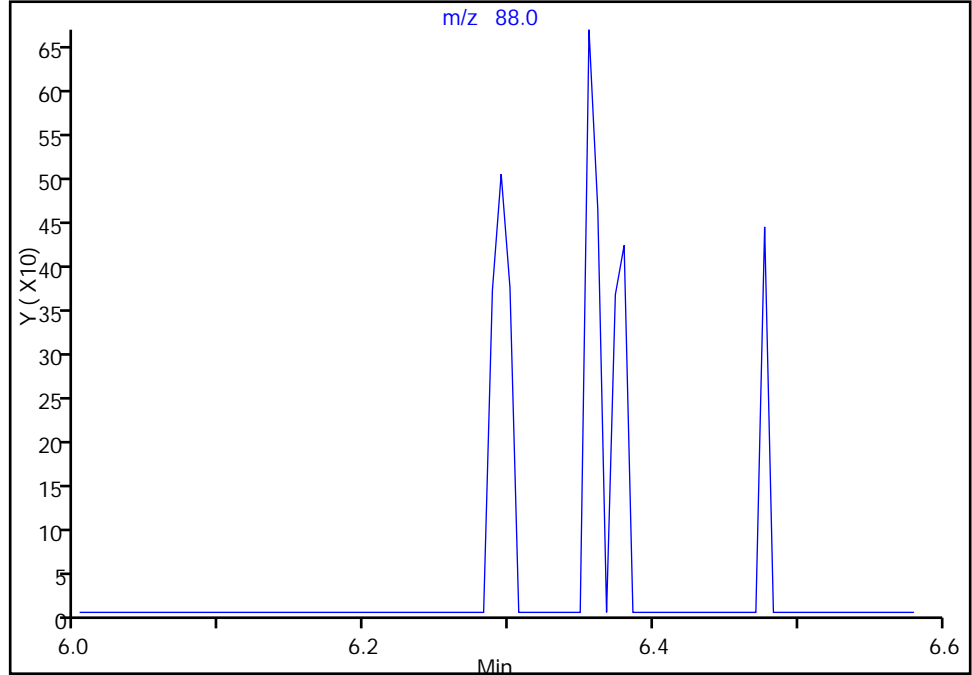
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
Injection Date: 10-Jan-2018 01:05:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: AS ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

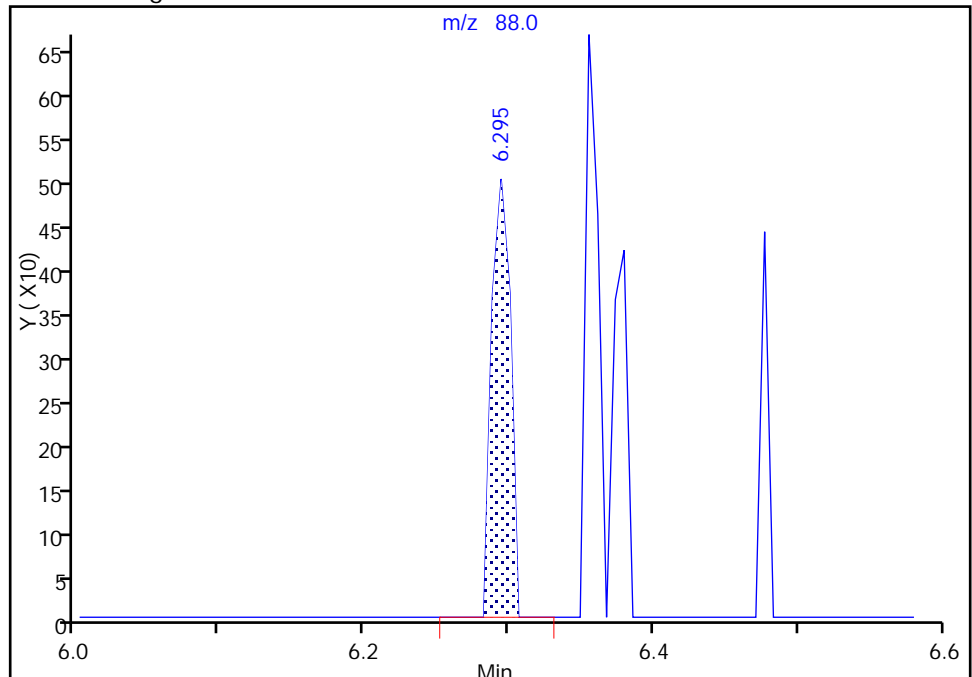
Not Detected
Expected RT: 6.28

Processing Integration Results



RT: 6.29
Area: 450
Amount: 19.891122
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:16:27
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

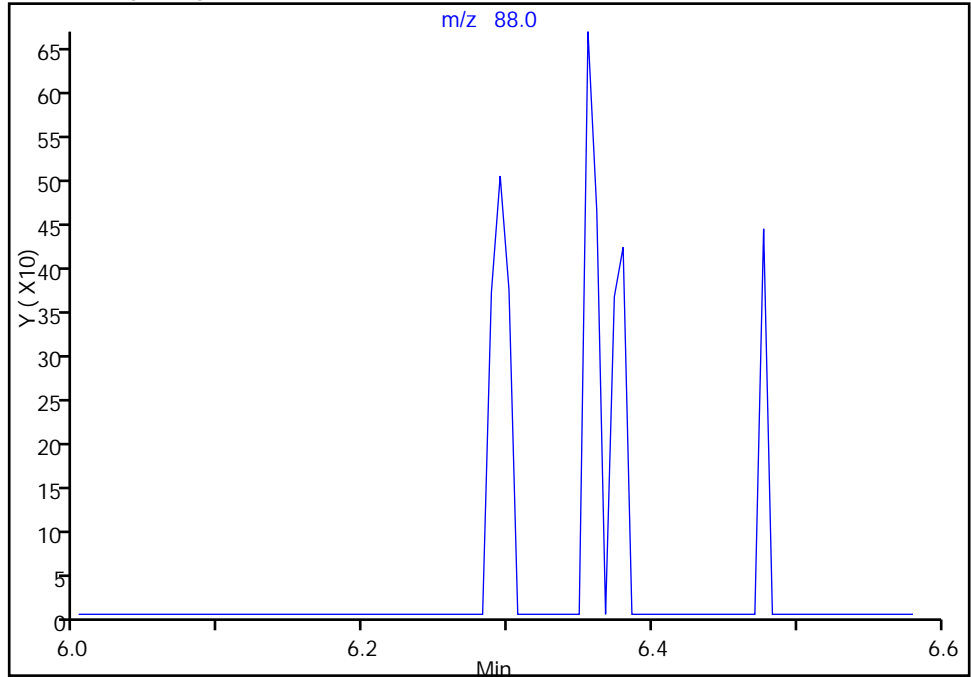
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6364.D
Injection Date: 10-Jan-2018 01:05:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: AS ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

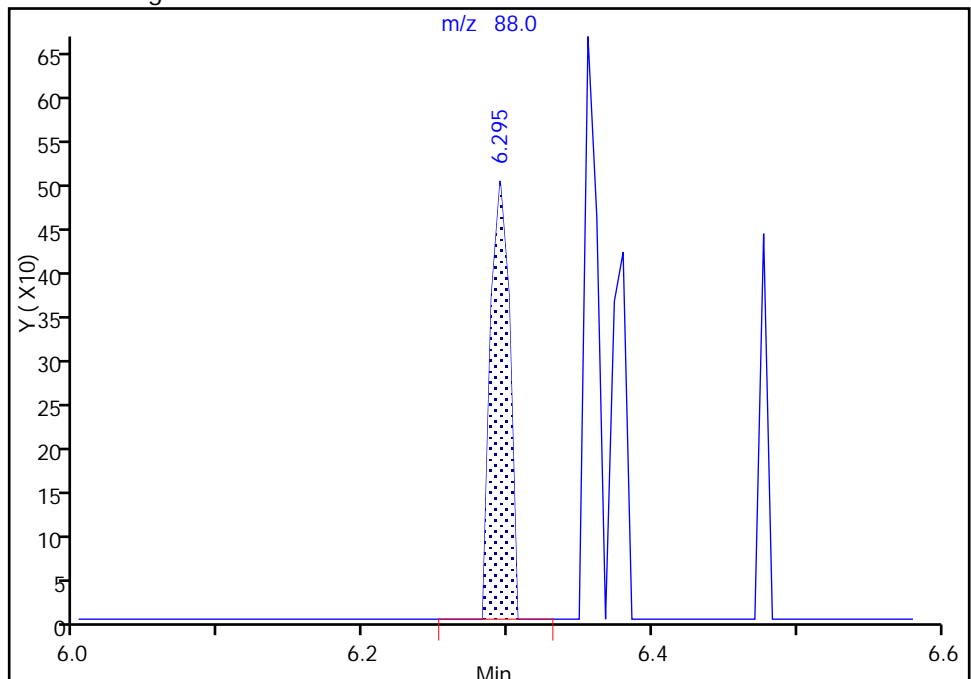
Not Detected
Expected RT: 6.28

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 450
Amount: 19.891122
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:16:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Jan-2018 01:28:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0068466-006
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:21 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr Date: 10-Jan-2018 08:58:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	153471	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	85	326350	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	90	343558	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	80	202738	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	124776	25.0	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	90	837535	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.792	0.001	93	290468	25.0	25.6	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	60	18451	2.00	2.25	
12 Chloromethane	50	1.488	1.488	0.000	68	19431	2.00	2.29	
13 Vinyl chloride	62	1.580	1.574	0.006	71	18730	2.00	2.10	
151 Butadiene	54	1.598	1.598	0.000	83	22964	2.00	2.60	
14 Bromomethane	94	1.920	1.902	0.018	70	14755	2.00	2.20	M
15 Chloroethane	64	1.993	1.993	0.000	55	12898	2.00	1.79	
16 Dichlorofluoromethane	67	2.212	2.212	0.000	84	30260	2.00	2.24	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	73	23623	2.00	2.22	
18 Ethyl ether	59	2.529	2.535	-0.006	77	12546	2.00	1.98	
20 Acrolein	56	2.717	2.711	0.006	76	16326	10.0	10.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.736	-0.006	68	10597	2.00	1.73	
22 1,1-Dichloroethene	96	2.748	2.754	-0.006	84	13340	2.00	2.07	
23 Acetone	43	2.876	2.875	0.001	91	36906	10.0	12.5	
25 Iodomethane	142	2.918	2.912	0.006	90	25765	2.00	2.15	
26 Carbon disulfide	76	2.955	2.955	0.000	95	43624	2.00	1.99	
28 3-Chloro-1-propene	41	3.125	3.131	-0.006	86	19487	2.00	1.95	
27 Methyl acetate	43	3.186	3.180	0.006	84	20949	4.00	3.11	
30 Methylene Chloride	84	3.277	3.271	0.006	69	19481	2.00	2.31	
31 2-Methyl-2-propanol	59	3.453	3.441	0.012	80	11174	20.0	16.6	
32 Methyl tert-butyl ether	73	3.508	3.496	0.012	78	50957	2.00	2.05	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	62	17151	2.00	2.19	
33 Acrylonitrile	53	3.563	3.557	0.006	100	57855	20.0	20.6	
35 Hexane	57	3.715	3.715	0.000	87	21556	2.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	65	24880	2.00	2.02	
37 Vinyl acetate	43	3.995	3.983	0.012	96	55647	4.00	3.94	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	76	20677	2.00	2.03	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	47	18591	2.00	2.08	
43 2-Butanone (MEK)	43	4.536	4.524	0.012	93	35621	10.0	9.63	
48 Chlorobromomethane	128	4.725	4.725	0.000	72	9590	2.00	2.11	
49 Tetrahydrofuran	42	4.761	4.755	0.006	70	9041	4.00	3.74	
50 Chloroform	83	4.798	4.798	0.000	87	27467	2.00	2.05	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	76	23614	2.00	2.05	
52 Cyclohexane	56	4.926	4.938	-0.012	75	22858	2.00	2.14	
55 Carbon tetrachloride	117	5.066	5.059	0.007	74	21567	2.00	2.07	
54 1,1-Dichloropropene	75	5.072	5.078	-0.006	82	19652	2.00	1.90	
57 Benzene	78	5.279	5.278	0.001	64	65258	2.00	2.05	
53 Isobutyl alcohol	43	5.291	5.278	0.013	34	13329	50.0	35.9	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	79	21666	2.00	2.08	
59 n-Heptane	43	5.467	5.467	0.000	85	21816	2.00	2.10	
62 Trichloroethene	95	5.893	5.893	0.000	84	18062	2.00	2.16	
64 Methylcyclohexane	83	6.015	6.015	0.000	78	26844	2.00	1.99	
65 1,2-Dichloropropane	63	6.130	6.124	0.006	79	15413	2.00	2.13	
67 Dibromomethane	93	6.270	6.264	0.006	76	10860	2.00	2.12	
66 1,4-Dioxane	88	6.288	6.282	0.006	1	2577	40.0	39.0	M
68 Dichlorobromomethane	83	6.410	6.416	-0.006	90	20101	2.00	1.97	
69 2-Chloroethyl vinyl ether	63	6.708	6.696	0.012	56	8928	2.00	1.84	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	73	23924	2.00	1.99	
73 4-Methyl-2-pentanone (MIBK)	43	6.982	6.976	0.006	94	77955	10.0	10.1	
74 Toluene	92	7.128	7.128	0.000	78	45551	2.00	2.11	
77 trans-1,3-Dichloropropene	75	7.402	7.396	0.006	79	20795	2.00	1.83	
75 Ethyl methacrylate	69	7.456	7.450	0.006	55	21604	2.00	1.89	
79 1,1,2-Trichloroethane	83	7.596	7.590	0.006	75	12557	2.00	2.04	
81 Tetrachloroethene	166	7.663	7.663	0.000	85	18639	2.00	1.87	
82 1,3-Dichloropropane	76	7.755	7.755	0.001	75	26969	2.00	2.09	
80 2-Hexanone	43	7.821	7.815	0.006	75	60371	10.0	10.3	
83 Chlorodibromomethane	129	7.986	7.986	0.000	60	16445	2.00	1.99	
84 Ethylene Dibromide	107	8.095	8.095	0.000	81	15317	2.00	1.93	
87 Chlorobenzene	112	8.576	8.576	0.000	96	49343	2.00	2.03	
88 Ethylbenzene	91	8.673	8.667	0.006	24	78455	2.00	1.97	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	29	17945	2.00	2.11	
90 m-Xylene & p-Xylene	106	8.795	8.789	0.006	0	32483	2.00	1.98	
91 o-Xylene	106	9.221	9.221	0.000	93	30635	2.00	1.99	
92 Styrene	104	9.251	9.245	0.006	88	54727	2.00	2.07	
95 Bromoform	173	9.488	9.488	0.000	77	10463	2.00	1.90	
94 Isopropylbenzene	105	9.598	9.598	0.000	91	79703	2.00	2.01	
101 Bromobenzene	156	9.939	9.939	0.001	83	21457	2.00	1.98	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.981	0.006	74	21962	2.00	2.21	
100 1,2,3-Trichloropropane	110	10.030	10.018	0.012	24	7536	2.00	2.12	
99 N-Propylbenzene	91	10.024	10.024	0.000	96	90130	2.00	2.01	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	25	3012	2.00	1.52	
103 2-Chlorotoluene	126	10.121	10.127	-0.006	95	20129	2.00	2.06	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	79	67594	2.00	2.02	
105 4-Chlorotoluene	126	10.243	10.237	0.006	56	20427	2.00	2.04	
106 tert-Butylbenzene	134	10.510	10.510	0.000	83	16414	2.00	2.05	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	77	71905	2.00	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	84	88170	2.00	2.08	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	69	43075	2.00	2.11	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	94	75358	2.00	2.02	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	34	45613	2.00	2.14	
115 n-Butylbenzene	91	11.247	11.246	0.001	95	69389	2.00	2.15	
116 1,2-Dichlorobenzene	146	11.289	11.289	0.000	90	40379	2.00	2.06	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	29	3287	2.00	1.92	
119 1,2,4-Trichlorobenzene	180	12.694	12.688	0.006	80	28497	2.00	1.90	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	78	15161	2.00	2.11	
121 Naphthalene	128	12.901	12.901	0.000	93	78594	2.00	2.08	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	84	28634	2.00	2.01	
S 124 Xylenes, Total	1				0			3.97	
S 123 Total BTEX	1				0			10.1	
S 126 1,3-Dichloropropene, Total	1				0			3.82	
S 125 1,2-Dichloroethene, Total	1				0			4.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 2.00

Units: uL

GAS CORP mix_00259

Amount Added: 2.00

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D

Injection Date: 10-Jan-2018 01:28:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

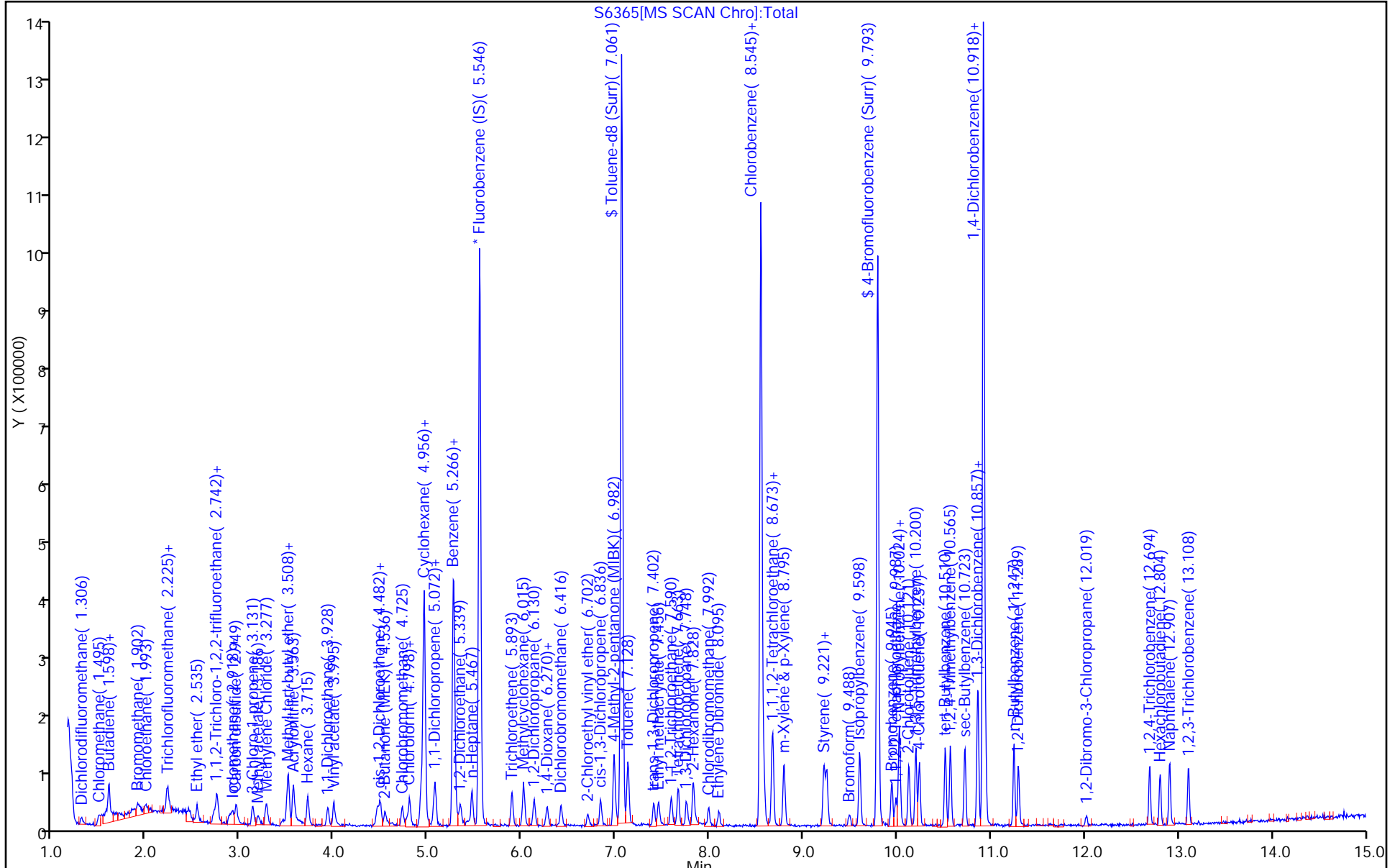
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

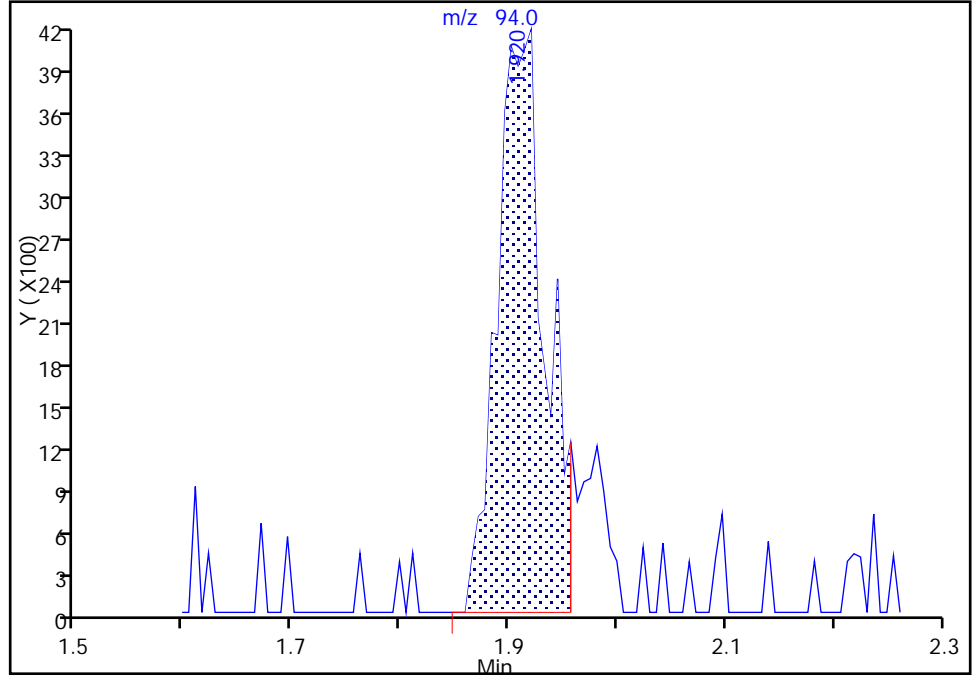
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
Injection Date: 10-Jan-2018 01:28:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: AS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

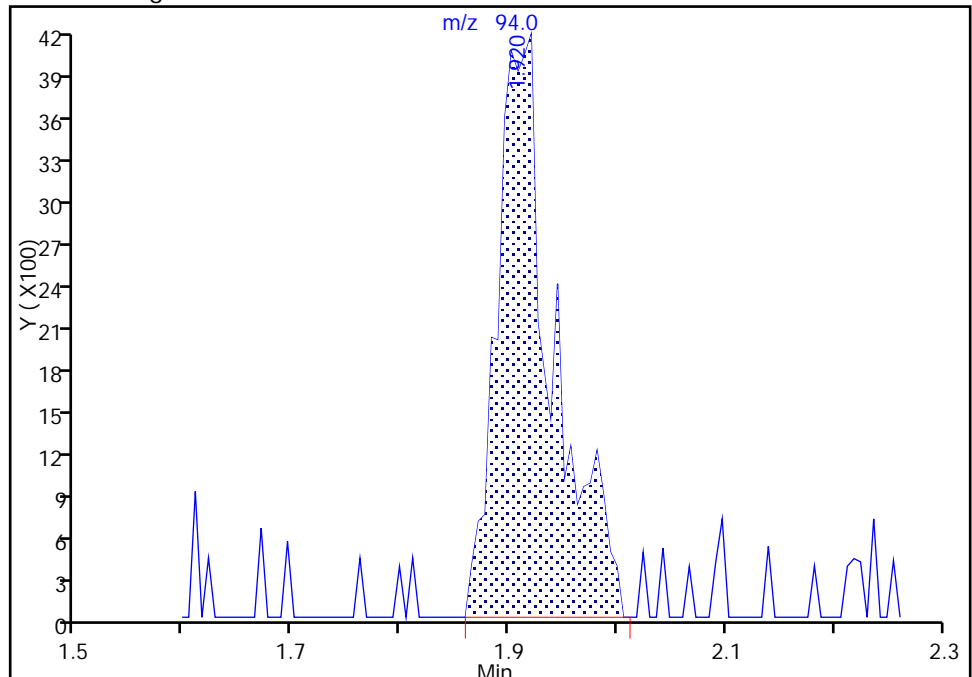
RT: 1.92
Area: 12741
Amount: 1.788938
Amount Units: ug/L

Processing Integration Results



RT: 1.92
Area: 14755
Amount: 2.204010
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:17:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

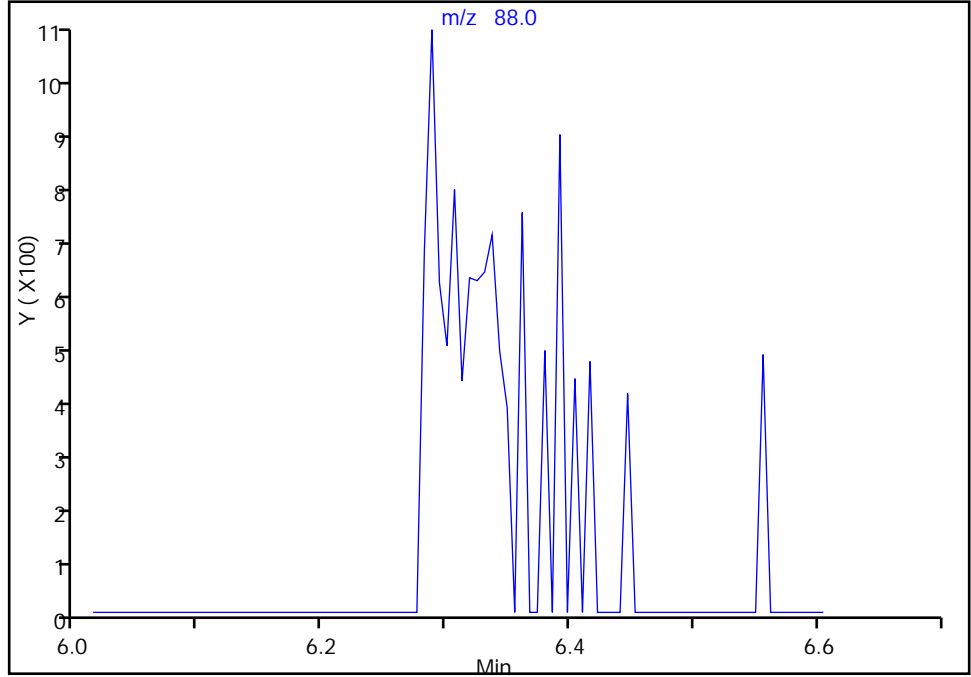
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6365.D
Injection Date: 10-Jan-2018 01:28:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: AS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

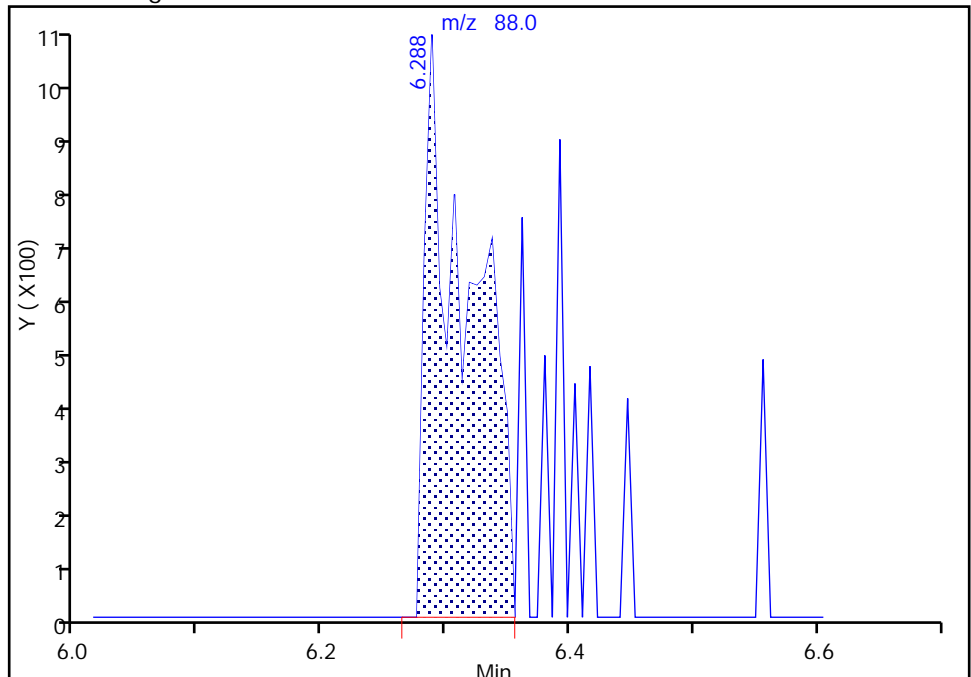
Not Detected
Expected RT: 6.28

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 2577
Amount: 39.048413
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:17:55
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

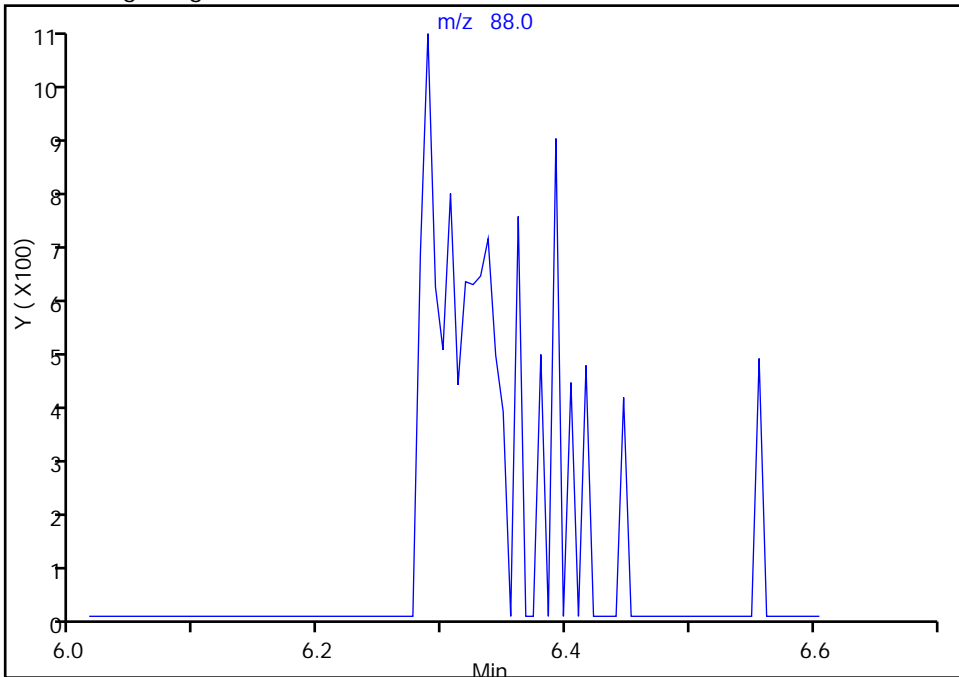
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Injection Date: 10-Jan-2018 01:28:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: AS ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

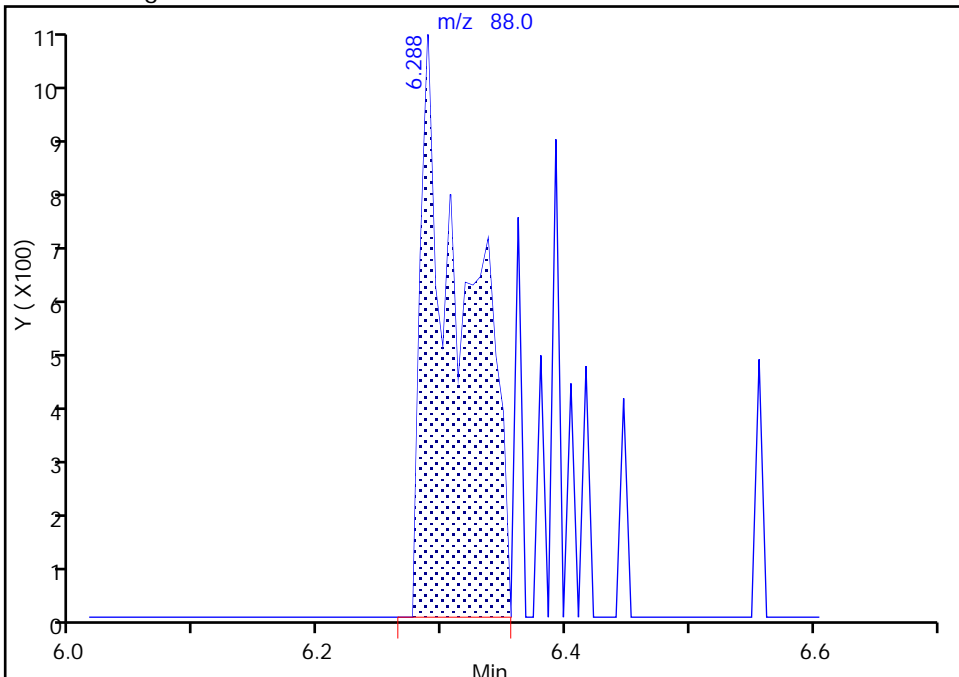
Not Detected
Expected RT: 6.28

Processing Integration Results



Manual Integration Results

RT: 6.29
Area: 2577
Amount: 39.048413
Amount Units: ug/L



Reviewer: farrellr, 10-Jan-2018 09:18:05

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6366.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 10-Jan-2018 01:51:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0068466-007
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:24 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:59:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	157963	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	84	336307	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	83	359539	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	81	199814	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.267	0.000	0	120931	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	836148	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	94	292156	25.0	25.0	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	72	33546	5.00	3.97	
12 Chloromethane	50	1.483	1.483	0.000	83	40071	5.00	4.60	
13 Vinyl chloride	62	1.574	1.574	0.000	86	41486	5.00	4.53	
151 Butadiene	54	1.592	1.592	0.000	86	41104	5.00	4.51	
14 Bromomethane	94	1.896	1.896	0.000	72	32045	5.00	4.65	
15 Chloroethane	64	1.987	1.987	0.000	90	31849	5.00	5.11	
16 Dichlorofluoromethane	67	2.213	2.213	0.000	94	58737	5.00	4.23	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	96	46911	5.00	4.28	
18 Ethyl ether	59	2.535	2.535	0.000	77	33148	5.00	5.09	
20 Acrolein	56	2.711	2.711	0.000	91	38427	25.0	24.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.742	2.742	0.000	62	34011	5.00	5.39	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	86	34427	5.00	5.20	
23 Acetone	43	2.876	2.876	0.000	97	69875	25.0	23.0	
25 Iodomethane	142	2.912	2.912	0.000	97	61465	5.00	4.98	
26 Carbon disulfide	76	2.949	2.949	0.000	98	119601	5.00	5.31	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	84	48690	5.00	4.74	
27 Methyl acetate	43	3.180	3.180	0.000	92	57958	10.0	9.86	
30 Methylene Chloride	84	3.271	3.271	0.000	83	41379	5.00	4.76	
31 2-Methyl-2-propanol	59	3.448	3.448	0.000	95	31150	50.0	44.9	
32 Methyl tert-butyl ether	73	3.502	3.502	0.000	86	128388	5.00	5.01	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	71	42047	5.00	5.22	
33 Acrylonitrile	53	3.557	3.557	0.000	100	147836	50.0	51.3	
35 Hexane	57	3.715	3.715	0.000	87	58901	5.00	5.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	78	64430	5.00	5.09	
37 Vinyl acetate	43	3.989	3.989	0.000	97	140026	10.0	9.63	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	79	53361	5.00	5.08	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	73	45974	5.00	4.99	
43 2-Butanone (MEK)	43	4.537	4.537	0.000	98	93098	25.0	24.5	
48 Chlorobromomethane	128	4.725	4.725	0.000	79	24606	5.00	5.27	
49 Tetrahydrofuran	42	4.768	4.768	0.000	83	26747	10.0	10.8	
50 Chloroform	83	4.804	4.804	0.000	76	68854	5.00	4.99	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	90	62315	5.00	5.25	
52 Cyclohexane	56	4.938	4.938	0.000	75	52122	5.00	4.73	
55 Carbon tetrachloride	117	5.066	5.066	0.000	87	53197	5.00	4.95	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	94	55667	5.00	5.24	
53 Isobutyl alcohol	43	5.285	5.285	0.000	45	42758	125.0	111.8	
57 Benzene	78	5.279	5.279	0.000	92	165723	5.00	5.06	
58 1,2-Dichloroethane	62	5.340	5.340	0.000	72	52042	5.00	4.86	
59 n-Heptane	43	5.467	5.467	0.000	86	53284	5.00	4.98	
62 Trichloroethene	95	5.887	5.887	0.000	90	43135	5.00	5.01	
64 Methylcyclohexane	83	6.021	6.021	0.000	83	72006	5.00	5.20	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	92	36403	5.00	4.89	
67 Dibromomethane	93	6.258	6.258	0.000	89	27015	5.00	5.12	
66 1,4-Dioxane	88	6.289	6.289	0.000	66	9431	100.0	98.0	
68 Dichlorobromomethane	83	6.416	6.416	0.000	90	52921	5.00	5.03	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	87	24473	5.00	4.90	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	84	60013	5.00	4.84	
73 4-Methyl-2-pentanone (MIBK)	43	6.982	6.982	0.000	94	193133	25.0	24.3	
74 Toluene	92	7.128	7.128	0.000	84	108887	5.00	4.89	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	82	56578	5.00	4.83	
75 Ethyl methacrylate	69	7.451	7.451	0.000	77	56185	5.00	4.76	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	88	31518	5.00	4.97	
81 Tetrachloroethene	166	7.663	7.663	0.000	82	52276	5.00	5.10	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	87	67623	5.00	5.10	
80 2-Hexanone	43	7.822	7.822	0.000	94	156268	25.0	25.8	
83 Chlorodibromomethane	129	7.986	7.986	0.000	80	40719	5.00	4.78	
84 Ethylene Dibromide	107	8.095	8.095	0.000	93	39527	5.00	4.82	
87 Chlorobenzene	112	8.576	8.576	0.000	94	126344	5.00	5.05	
88 Ethylbenzene	91	8.673	8.673	0.000	46	207445	5.00	5.07	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	37	44131	5.00	5.05	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	84142	5.00	4.96	
91 o-Xylene	106	9.221	9.221	0.000	95	80633	5.00	5.08	
92 Styrene	104	9.245	9.245	0.000	94	131925	5.00	4.84	
95 Bromoform	173	9.489	9.489	0.000	90	27124	5.00	4.79	
94 Isopropylbenzene	105	9.598	9.598	0.000	94	214012	5.00	5.16	
101 Bromobenzene	156	9.945	9.945	0.000	83	58292	5.00	5.15	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	77	51269	5.00	4.92	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	36	19301	5.00	5.19	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	238344	5.00	5.08	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	32	8562	5.00	4.13	
103 2-Chlorotoluene	126	10.121	10.121	0.000	96	50665	5.00	4.95	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	94	176244	5.00	5.03	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	53452	5.00	5.11	
106 tert-Butylbenzene	134	10.511	10.511	0.000	88	41762	5.00	4.98	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	72	183445	5.00	5.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	92	226916	5.00	5.12	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	72	108628	5.00	5.08	
110 4-Isopropyltoluene	119	10.857	10.857	0.000	95	208986	5.00	5.36	
113 1,4-Dichlorobenzene	146	10.943	10.943	0.000	91	113102	5.00	5.08	
115 n-Butylbenzene	91	11.247	11.247	0.000	93	165924	5.00	4.91	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	93	103843	5.00	5.06	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	78	9946	5.00	4.98	
119 1,2,4-Trichlorobenzene	180	12.695	12.695	0.000	89	82771	5.00	5.27	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	90	40129	5.00	5.32	
121 Naphthalene	128	12.907	12.907	0.000	95	199091	5.00	5.04	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	95	77754	5.00	5.22	
S 126 1,3-Dichloropropene, Total	1				0			9.67	
S 125 1,2-Dichloroethene, Total	1				0			10.2	
S 124 Xylenes, Total	1				0			10.0	
S 123 Total BTEX	1				0			25.1	

Reagents:

8260 CORP mix_00118	Amount Added: 5.00	Units: uL	
GAS CORP mix_00259	Amount Added: 5.00	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6366.D

Injection Date: 10-Jan-2018 01:51:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

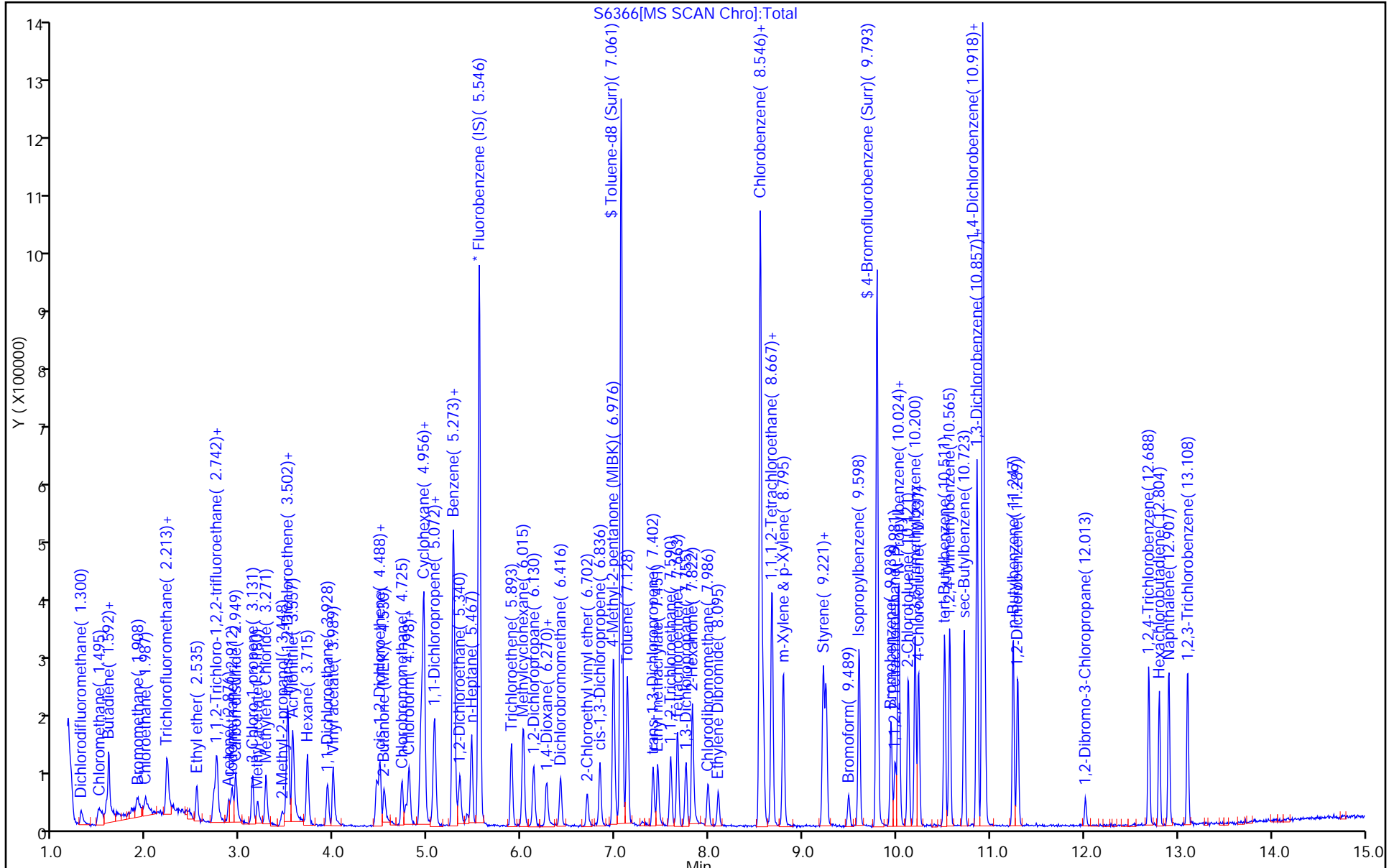
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6367.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 10-Jan-2018 02:15:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0068466-008
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:26 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 09:20:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	159539	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.546	0.000	82	338465	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	72	364648	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	80	203912	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.267	5.267	0.000	0	123345	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	840056	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	96	290230	25.0	24.7	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	85	92111	10.0	10.8	
12 Chloromethane	50	1.495	1.483	0.012	88	88708	10.0	10.1	
13 Vinyl chloride	62	1.574	1.574	0.000	94	93789	10.0	10.1	
151 Butadiene	54	1.592	1.592	0.000	91	91508	10.0	9.95	
14 Bromomethane	94	1.902	1.896	0.006	80	71215	10.0	10.2	
15 Chloroethane	64	1.981	1.987	-0.006	97	63651	10.0	10.7	
16 Dichlorofluoromethane	67	2.213	2.213	0.000	96	130164	10.0	9.28	
17 Trichlorofluoromethane	101	2.219	2.225	-0.006	84	113070	10.0	10.2	
18 Ethyl ether	59	2.529	2.535	-0.006	78	64523	10.0	9.80	
20 Acrolein	56	2.711	2.711	0.000	91	70388	50.0	45.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.730	2.742	-0.012	86	71216	10.0	11.2	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	88	61755	10.0	9.24	
23 Acetone	43	2.876	2.876	0.000	97	150653	50.0	49.1	
25 Iodomethane	142	2.912	2.912	0.000	98	122384	10.0	9.82	
26 Carbon disulfide	76	2.949	2.949	0.000	98	228825	10.0	10.1	
28 3-Chloro-1-propene	41	3.125	3.131	-0.006	89	96690	10.0	9.31	
27 Methyl acetate	43	3.180	3.180	0.000	93	106246	20.0	18.6	
30 Methylene Chloride	84	3.271	3.271	0.000	86	83172	10.0	9.48	
31 2-Methyl-2-propanol	59	3.441	3.448	-0.007	98	66791	100.0	95.4	
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	86	251798	10.0	9.73	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	81	82025	10.0	10.1	
33 Acrylonitrile	53	3.557	3.557	0.000	98	283372	100.0	97.3	
35 Hexane	57	3.709	3.715	-0.006	84	101601	10.0	9.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	95	124699	10.0	9.75	
37 Vinyl acetate	43	3.983	3.989	-0.006	96	292231	20.0	19.9	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	86	104123	10.0	9.81	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	77	93434	10.0	10.0	
43 2-Butanone (MEK)	43	4.524	4.537	-0.012	93	176677	50.0	46.0	
48 Chlorobromomethane	128	4.725	4.725	0.000	84	42985	10.0	9.11	
49 Tetrahydrofuran	42	4.762	4.768	-0.006	84	47889	20.0	19.1	
50 Chloroform	83	4.798	4.804	-0.006	92	134121	10.0	9.63	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	90	115751	10.0	9.65	
52 Cyclohexane	56	4.932	4.938	-0.006	83	107530	10.0	9.66	
55 Carbon tetrachloride	117	5.066	5.066	0.000	83	104128	10.0	9.60	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	94	105564	10.0	9.83	
57 Benzene	78	5.279	5.279	0.000	97	319996	10.0	9.68	
53 Isobutyl alcohol	43	5.285	5.285	0.000	47	99773	250.0	258.3	
58 1,2-Dichloroethane	62	5.340	5.340	0.000	59	101591	10.0	9.39	
59 n-Heptane	43	5.467	5.467	0.000	89	105097	10.0	9.73	
62 Trichloroethene	95	5.887	5.887	0.000	92	86370	10.0	9.93	
64 Methylcyclohexane	83	6.015	6.021	-0.006	83	141365	10.0	10.1	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	92	70535	10.0	9.37	
67 Dibromomethane	93	6.264	6.258	0.006	83	49920	10.0	9.36	
66 1,4-Dioxane	88	6.282	6.289	-0.007	18	22915	200.0	214.2	M
68 Dichlorobromomethane	83	6.410	6.416	-0.006	96	104182	10.0	9.81	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	87	50050	10.0	9.93	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	127464	10.0	10.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.982	-0.006	95	389686	50.0	48.8	
74 Toluene	92	7.128	7.128	0.000	92	217131	10.0	9.70	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	92	112516	10.0	9.55	
75 Ethyl methacrylate	69	7.451	7.451	0.000	67	117413	10.0	9.89	
79 1,1,2-Trichloroethane	83	7.584	7.590	-0.006	82	61862	10.0	9.69	
81 Tetrachloroethene	166	7.663	7.663	0.000	85	106167	10.0	10.3	
82 1,3-Dichloropropane	76	7.749	7.755	-0.006	90	126250	10.0	9.45	
80 2-Hexanone	43	7.816	7.822	-0.006	93	286409	50.0	47.0	
83 Chlorodibromomethane	129	7.986	7.986	0.000	84	83391	10.0	9.73	
84 Ethylene Dibromide	107	8.095	8.095	0.000	94	80000	10.0	9.70	
87 Chlorobenzene	112	8.576	8.576	0.000	94	246321	10.0	9.79	
88 Ethylbenzene	91	8.667	8.673	-0.006	35	411776	10.0	10.0	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	44	82876	10.0	9.41	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	165553	10.0	9.71	
91 o-Xylene	106	9.221	9.221	0.000	95	156264	10.0	9.79	
92 Styrene	104	9.245	9.245	0.000	94	268301	10.0	9.78	
95 Bromoform	173	9.495	9.489	0.006	88	53310	10.0	9.35	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	416894	10.0	9.90	
101 Bromobenzene	156	9.945	9.945	0.000	86	113870	10.0	9.92	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	80	102449	10.0	9.69	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	41	36278	10.0	9.62	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	478174	10.0	10.0	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	34	19499	10.0	9.28	
103 2-Chlorotoluene	126	10.121	10.121	0.000	97	105666	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	90	352395	10.0	9.91	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	106801	10.0	10.1	
106 tert-Butylbenzene	134	10.511	10.511	0.000	88	82313	10.0	9.67	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	75	356647	10.0	9.80	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	93	447071	10.0	9.94	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	73	215058	10.0	9.92	
110 4-Isopropyltoluene	119	10.857	10.857	0.000	96	384983	10.0	9.74	
113 1,4-Dichlorobenzene	146	10.942	10.943	0.000	93	218249	10.0	9.66	
115 n-Butylbenzene	91	11.247	11.247	0.000	93	335985	10.0	9.80	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	93	208718	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.013	0.006	74	20245	10.0	9.68	
119 1,2,4-Trichlorobenzene	180	12.688	12.695	-0.007	93	156257	10.0	9.80	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	93	76304	10.0	9.98	
121 Naphthalene	128	12.907	12.907	0.000	96	388771	10.0	9.70	
122 1,2,3-Trichlorobenzene	180	13.102	13.108	-0.006	95	148316	10.0	9.81	
S 124 Xylenes, Total	1				0			19.5	
S 123 Total BTEX	1				0			48.9	
S 126 1,3-Dichloropropene, Total	1				0			19.7	
S 125 1,2-Dichloroethene, Total	1				0			20.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00118

Amount Added: 5.00

Units: uL

GAS CORP mix_00259

Amount Added: 5.00

Units: uL

S_8260_IS_00277

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00244

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6367.D

Injection Date: 10-Jan-2018 02:15:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

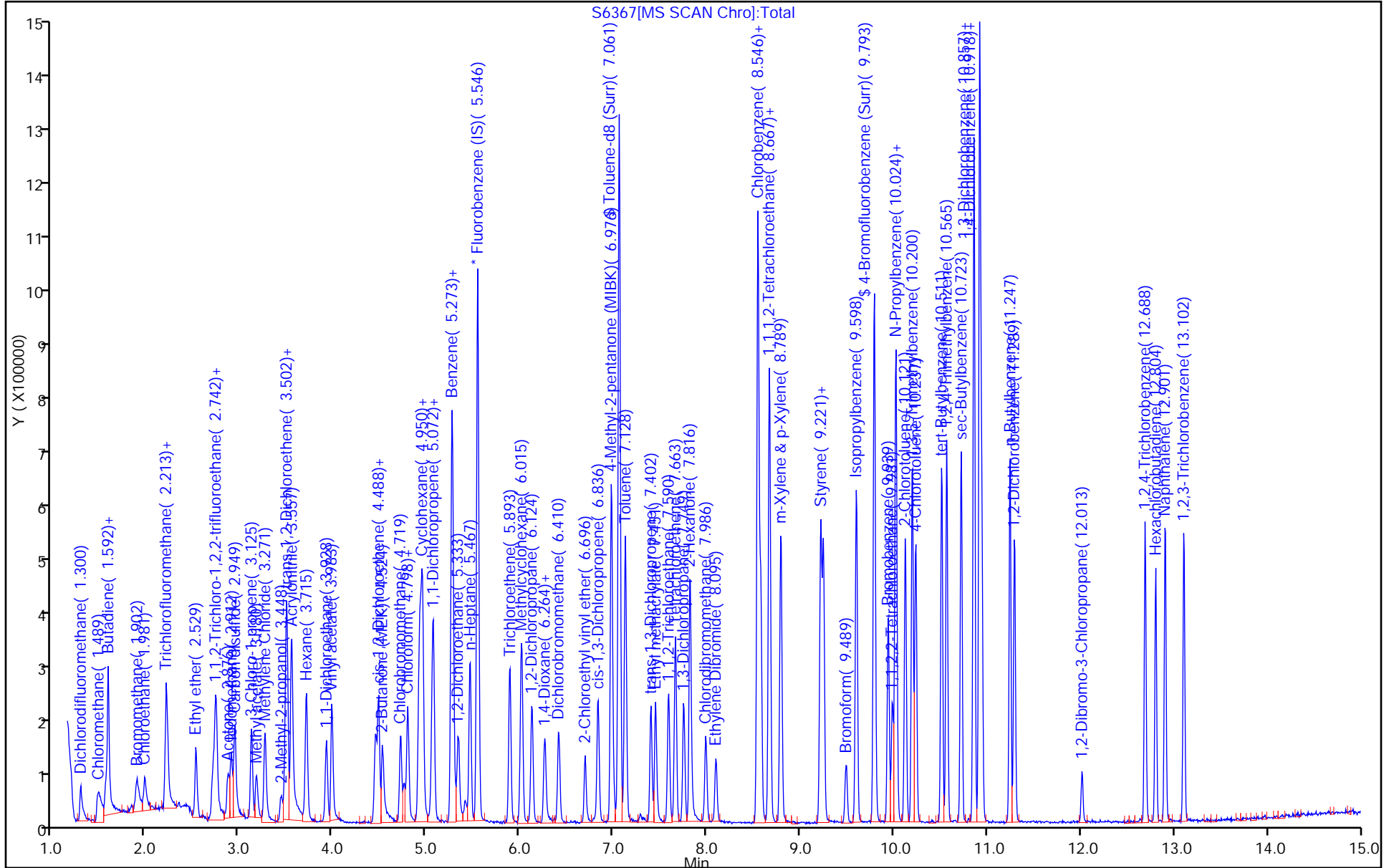
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

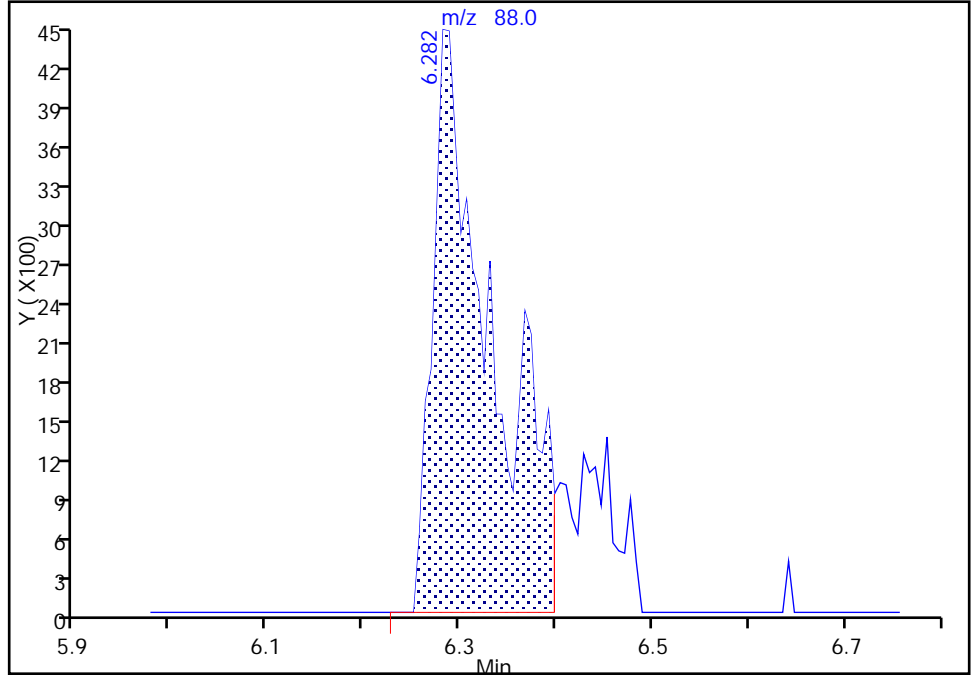
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6367.D
Injection Date: 10-Jan-2018 02:15:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: AS ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

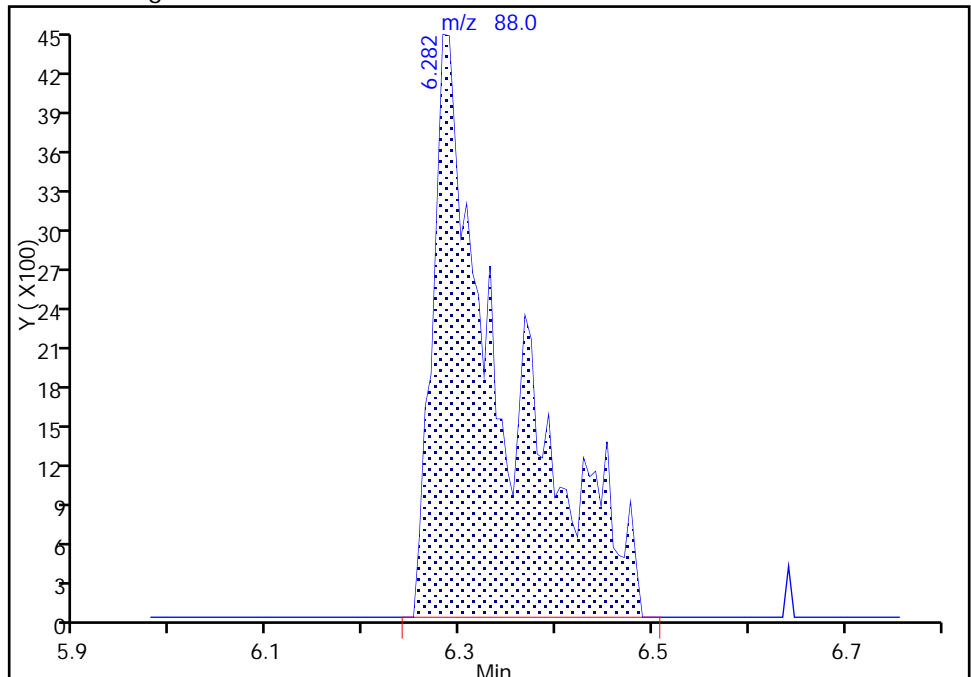
RT: 6.28
Area: 18704
Amount: 180.4232
Amount Units: ug/L

Processing Integration Results



RT: 6.28
Area: 22915
Amount: 214.1876
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 09:19:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6368.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 10-Jan-2018 02:38:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0068466-009
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:10:59 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 08:42:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	166664	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	83	342336	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	50	365955	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	83	207112	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	122068	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	843396	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.792	9.792	0.000	96	293554	25.0	24.7	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	98	228866	25.0	25.7	
12 Chloromethane	50	1.488	1.488	0.000	99	220489	25.0	24.0	
13 Vinyl chloride	62	1.574	1.574	0.000	78	249956	25.0	25.9	
151 Butadiene	54	1.598	1.598	0.000	89	225682	25.0	23.5	
14 Bromomethane	94	1.902	1.902	0.000	91	160386	25.0	22.1	
15 Chloroethane	64	1.993	1.993	0.000	94	154565	25.0	25.6	
16 Dichlorofluoromethane	67	2.212	2.212	0.000	82	354050	25.0	24.2	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	98	295003	25.0	25.5	
18 Ethyl ether	59	2.535	2.535	0.000	85	175400	25.0	25.5	
20 Acrolein	56	2.711	2.711	0.000	96	182386	125.0	111.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.736	0.000	83	172402	25.0	25.9	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	96	185007	25.0	26.5	
23 Acetone	43	2.875	2.875	0.000	99	366100	125.0	114.1	
25 Iodomethane	142	2.912	2.912	0.000	97	331208	25.0	25.4	
26 Carbon disulfide	76	2.955	2.955	0.000	98	617714	25.0	26.0	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	88	271400	25.0	25.0	
27 Methyl acetate	43	3.180	3.180	0.000	93	253271	50.0	43.6	
30 Methylene Chloride	84	3.271	3.271	0.000	85	213740	25.0	23.3	
31 2-Methyl-2-propanol	59	3.441	3.441	0.000	98	177523	250.0	242.7	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	91	666833	25.0	24.7	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	76	212704	25.0	25.0	
33 Acrylonitrile	53	3.557	3.557	0.000	98	753242	250.0	247.6	
35 Hexane	57	3.715	3.715	0.000	88	287182	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	85	344356	25.0	25.8	
37 Vinyl acetate	43	3.983	3.983	0.000	97	767480	50.0	50.0	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	89	281488	25.0	25.4	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	62	242221	25.0	24.9	
43 2-Butanone (MEK)	43	4.524	4.524	0.000	93	514572	125.0	128.1	
48 Chlorobromomethane	128	4.725	4.725	0.000	81	125955	25.0	25.5	
49 Tetrahydrofuran	42	4.755	4.755	0.000	80	126197	50.0	48.1	
50 Chloroform	83	4.798	4.798	0.000	91	363814	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	95	317603	25.0	25.3	
52 Cyclohexane	56	4.938	4.938	0.000	86	310432	25.0	26.7	
55 Carbon tetrachloride	117	5.059	5.059	0.000	90	297697	25.0	26.3	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	95	287865	25.0	25.7	
57 Benzene	78	5.278	5.278	0.000	96	872548	25.0	25.3	
53 Isobutyl alcohol	43	5.278	5.278	0.000	45	266833	625.0	661.2	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	79	281074	25.0	24.9	
59 n-Heptane	43	5.467	5.467	0.000	91	288393	25.0	25.6	
62 Trichloroethene	95	5.893	5.893	0.000	91	232019	25.0	25.5	
64 Methylcyclohexane	83	6.015	6.015	0.000	85	390127	25.0	26.7	
65 1,2-Dichloropropane	63	6.124	6.124	0.000	93	196585	25.0	25.0	
67 Dibromomethane	93	6.264	6.264	0.000	88	136925	25.0	24.6	
66 1,4-Dioxane	88	6.282	6.282	0.000	44	55816	500.0	493.4	
68 Dichlorobromomethane	83	6.416	6.416	0.000	97	281780	25.0	25.4	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	133089	25.0	25.3	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	338583	25.0	25.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.976	0.000	94	1038179	125.0	128.6	
74 Toluene	92	7.128	7.128	0.000	95	573941	25.0	25.3	
77 trans-1,3-Dichloropropene	75	7.396	7.396	0.000	89	316408	25.0	26.5	
75 Ethyl methacrylate	69	7.450	7.450	0.000	67	320765	25.0	26.7	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	89	165136	25.0	25.6	
81 Tetrachloroethene	166	7.663	7.663	0.000	87	281499	25.0	27.0	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	88	345447	25.0	25.6	
80 2-Hexanone	43	7.815	7.815	0.000	94	767444	125.0	124.4	
83 Chlorodibromomethane	129	7.986	7.986	0.000	88	227660	25.0	26.3	
84 Ethylene Dibromide	107	8.095	8.095	0.000	96	218358	25.0	26.2	
87 Chlorobenzene	112	8.576	8.576	0.000	94	655055	25.0	25.7	
88 Ethylbenzene	91	8.667	8.667	0.000	36	1090400	25.0	26.2	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	40	227187	25.0	25.5	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	0	450111	25.0	26.1	
91 o-Xylene	106	9.221	9.221	0.000	95	424820	25.0	26.3	
92 Styrene	104	9.245	9.245	0.000	94	729624	25.0	26.3	
95 Bromoform	173	9.488	9.488	0.000	95	155329	25.0	26.9	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	1124832	25.0	26.6	
101 Bromobenzene	156	9.939	9.939	0.000	89	305414	25.0	26.5	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.981	0.000	89	262416	25.0	24.7	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	50	93061	25.0	24.6	
99 N-Propylbenzene	91	10.024	10.024	0.000	97	1281826	25.0	26.8	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	38	65419	25.0	31.0	
103 2-Chlorotoluene	126	10.127	10.127	0.000	97	272748	25.0	26.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	92	949771	25.0	26.6	
105 4-Chlorotoluene	126	10.237	10.237	0.000	95	285066	25.0	26.8	
106 tert-Butylbenzene	134	10.510	10.510	0.000	89	222667	25.0	26.1	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	971219	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	1206791	25.0	26.7	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	72	570133	25.0	26.2	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	1061450	25.0	26.7	
113 1,4-Dichlorobenzene	146	10.942	10.942	0.000	95	577920	25.0	25.5	
115 n-Butylbenzene	91	11.246	11.246	0.000	94	932451	25.0	27.1	
116 1,2-Dichlorobenzene	146	11.289	11.289	0.000	93	548845	25.0	26.3	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	83	52739	25.0	24.6	
119 1,2,4-Trichlorobenzene	180	12.688	12.688	0.000	94	421678	25.0	26.4	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	93	202553	25.0	26.4	
121 Naphthalene	128	12.901	12.901	0.000	97	1037306	25.0	25.8	
122 1,2,3-Trichlorobenzene	180	13.102	13.102	0.000	95	401086	25.0	26.4	

Reagents:

8260 CORP mix_00118	Amount Added: 12.50	Units: uL	
GAS CORP mix_00259	Amount Added: 12.50	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6368.D

Injection Date: 10-Jan-2018 02:38:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: ICIS 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

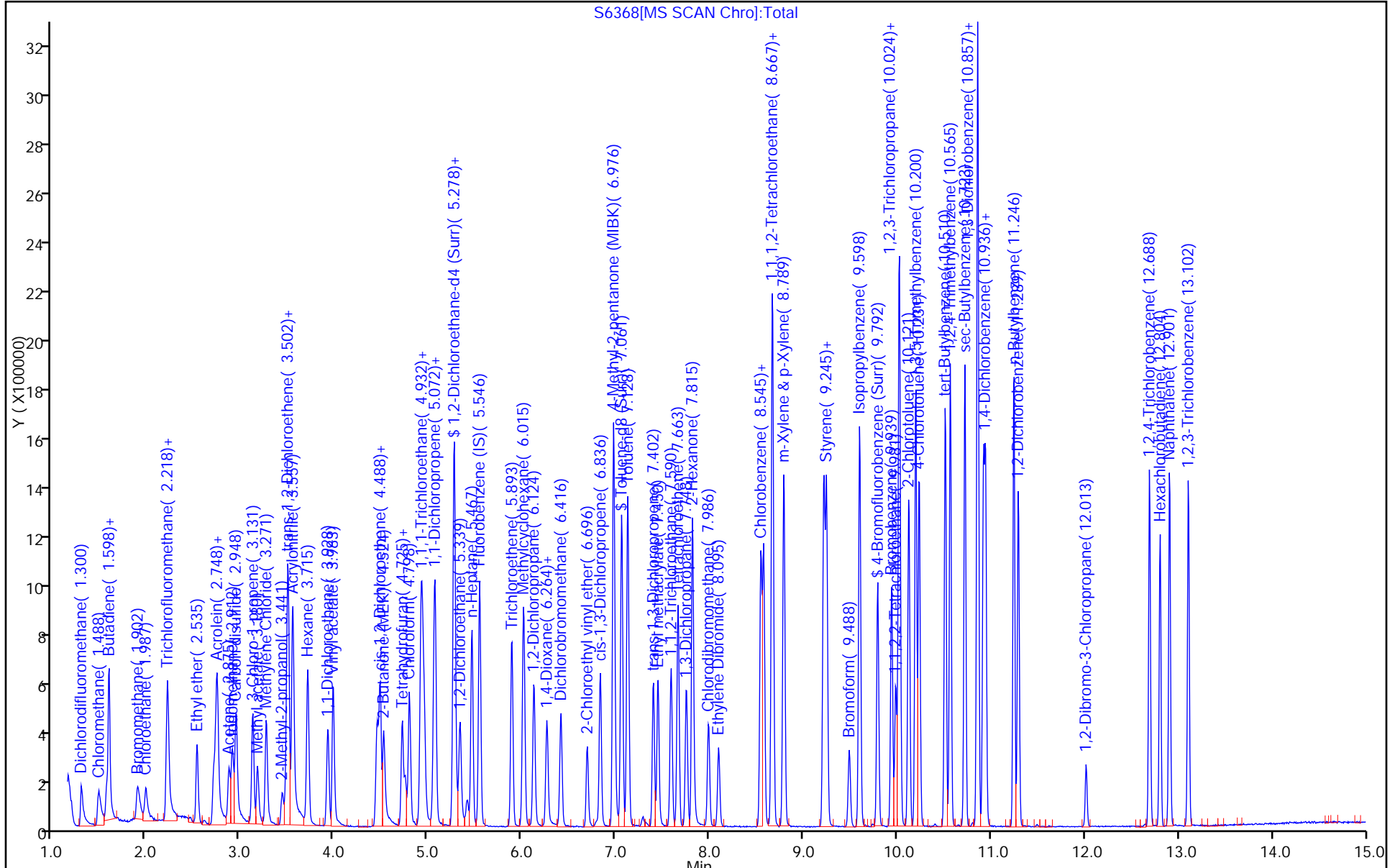
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6369.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 10-Jan-2018 03:01:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0068466-010
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:28 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 09:22:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	160301	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.546	-0.001	84	337090	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	38	372456	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	82	209003	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.267	-0.001	0	123014	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	91	835748	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.793	9.793	0.000	95	295222	25.0	25.2	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	99	447656	50.0	52.2	
12 Chloromethane	50	1.482	1.483	-0.001	99	435912	50.0	49.3	
13 Vinyl chloride	62	1.568	1.574	-0.006	80	480523	50.0	51.7	
151 Butadiene	54	1.592	1.592	0.000	89	434524	50.0	47.0	
14 Bromomethane	94	1.896	1.896	0.000	91	329202	50.0	47.1	
15 Chloroethane	64	1.987	1.987	0.000	94	292256	50.0	50.9	
16 Dichlorofluoromethane	67	2.212	2.213	-0.001	97	688074	50.0	48.8	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	99	549736	50.0	49.4	
18 Ethyl ether	59	2.535	2.535	0.000	86	344375	50.0	52.1	
20 Acrolein	56	2.705	2.711	-0.006	93	367719	250.0	234.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.742	-0.006	89	357897	50.0	55.9	
22 1,1-Dichloroethene	96	2.748	2.748	0.000	91	343170	50.0	51.1	
23 Acetone	43	2.869	2.876	-0.007	97	763626	250.0	247.5	
25 Iodomethane	142	2.912	2.912	0.000	96	680807	50.0	54.3	
26 Carbon disulfide	76	2.949	2.949	0.000	98	1198937	50.0	52.5	
28 3-Chloro-1-propene	41	3.125	3.131	-0.006	90	535550	50.0	51.3	
27 Methyl acetate	43	3.174	3.180	-0.006	94	578054	100.0	104.8	
30 Methylene Chloride	84	3.271	3.271	0.000	82	415017	50.0	47.1	
31 2-Methyl-2-propanol	59	3.441	3.448	-0.007	99	418769	500.0	595.3	
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	86	1341184	50.0	51.6	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	86	430248	50.0	52.6	
33 Acrylonitrile	53	3.551	3.557	-0.006	97	1512916	500.0	517.0	
35 Hexane	57	3.715	3.715	0.000	89	540329	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	84	684498	50.0	53.3	
37 Vinyl acetate	43	3.983	3.989	-0.006	97	1601215	100.0	108.6	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	88	545293	50.0	51.1	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	75	479168	50.0	51.2	
43 2-Butanone (MEK)	43	4.518	4.537	-0.018	93	981814	250.0	254.1	
48 Chlorobromomethane	128	4.725	4.725	0.000	83	251259	50.0	53.0	
49 Tetrahydrofuran	42	4.749	4.768	-0.019	80	250374	100.0	99.2	
50 Chloroform	83	4.798	4.804	-0.006	92	726226	50.0	51.9	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	91	624899	50.0	51.8	
52 Cyclohexane	56	4.932	4.938	-0.006	87	583599	50.0	52.2	
55 Carbon tetrachloride	117	5.060	5.066	-0.006	92	571861	50.0	52.5	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	96	571011	50.0	52.9	
57 Benzene	78	5.279	5.279	0.000	96	1708015	50.0	51.4	
53 Isobutyl alcohol	43	5.279	5.285	-0.006	47	536145	1250.0	1381.2	
58 1,2-Dichloroethane	62	5.339	5.340	-0.001	79	555452	50.0	51.1	
59 n-Heptane	43	5.467	5.467	0.000	91	542453	50.0	50.0	
62 Trichloroethene	95	5.887	5.887	0.000	96	459042	50.0	52.5	
64 Methylcyclohexane	83	6.015	6.021	-0.006	85	737359	50.0	52.5	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	94	398784	50.0	52.7	
67 Dibromomethane	93	6.264	6.258	0.006	86	270642	50.0	50.5	
66 1,4-Dioxane	88	6.270	6.289	-0.019	33	111742	1000.0	986.7	
68 Dichlorobromomethane	83	6.410	6.416	-0.006	99	571539	50.0	53.5	
69 2-Chloroethyl vinyl ether	63	6.690	6.696	-0.006	94	277966	50.0	54.9	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	691934	50.0	55.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.982	-0.006	93	2049343	250.0	257.8	
74 Toluene	92	7.128	7.128	0.000	97	1142634	50.0	51.2	
77 trans-1,3-Dichloropropene	75	7.396	7.402	-0.006	92	643636	50.0	54.8	
75 Ethyl methacrylate	69	7.450	7.451	-0.001	67	639803	50.0	54.1	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	90	329923	50.0	51.9	
81 Tetrachloroethene	166	7.663	7.663	0.000	91	551916	50.0	53.7	
82 1,3-Dichloropropane	76	7.749	7.755	-0.006	89	683418	50.0	51.4	
80 2-Hexanone	43	7.815	7.822	-0.007	91	1556330	250.0	256.2	
83 Chlorodibromomethane	129	7.986	7.986	0.000	89	464740	50.0	54.4	
84 Ethylene Dibromide	107	8.095	8.095	0.000	98	431800	50.0	52.6	
87 Chlorobenzene	112	8.576	8.576	0.000	95	1291015	50.0	51.5	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	45	460688	50.0	52.5	
88 Ethylbenzene	91	8.667	8.673	-0.006	46	2120818	50.0	51.7	
90 m-Xylene & p-Xylene	106	8.789	8.795	-0.006	0	885913	50.0	52.2	
91 o-Xylene	106	9.215	9.221	-0.006	96	843569	50.0	53.0	
92 Styrene	104	9.245	9.245	0.000	94	1470378	50.0	53.8	
95 Bromoform	173	9.488	9.489	-0.001	97	330533	50.0	58.2	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	2161384	50.0	50.3	
101 Bromobenzene	156	9.939	9.945	-0.006	89	593033	50.0	50.6	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	88	543147	50.0	50.3	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	48	186251	50.0	48.4	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	2494331	50.0	51.3	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	38	134285	50.0	62.5	
103 2-Chlorotoluene	126	10.121	10.121	0.000	97	534267	50.0	50.3	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	93	1847863	50.0	50.9	
105 4-Chlorotoluene	126	10.237	10.237	0.000	94	563356	50.0	52.0	
106 tert-Butylbenzene	134	10.517	10.511	0.006	89	447451	50.0	51.5	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	1883643	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	2308921	50.0	50.2	
110 4-Isopropyltoluene	119	10.857	10.857	0.000	96	2056564	50.0	50.9	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	71	1120470	50.0	50.6	
113 1,4-Dichlorobenzene	146	10.942	10.943	0.000	95	1150561	50.0	49.9	
115 n-Butylbenzene	91	11.240	11.247	-0.007	94	1794741	50.0	51.2	
116 1,2-Dichlorobenzene	146	11.289	11.295	-0.006	94	1085090	50.0	51.0	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	87	108654	50.0	49.6	
119 1,2,4-Trichlorobenzene	180	12.688	12.695	-0.007	95	832573	50.0	51.1	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	94	389378	50.0	49.9	
121 Naphthalene	128	12.901	12.907	-0.006	97	2078900	50.0	50.8	
122 1,2,3-Trichlorobenzene	180	13.102	13.108	-0.006	96	788196	50.0	51.1	
S 126 1,3-Dichloropropene, Total	1				0			109.9	
S 125 1,2-Dichloroethene, Total	1				0			103.8	
S 124 Xylenes, Total	1				0			105.2	
S 123 Total BTEX	1				0			259.6	

Reagents:

8260 CORP mix_00118	Amount Added: 25.00	Units: uL	
GAS CORP mix_00259	Amount Added: 25.00	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6369.D

Injection Date: 10-Jan-2018 03:01:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

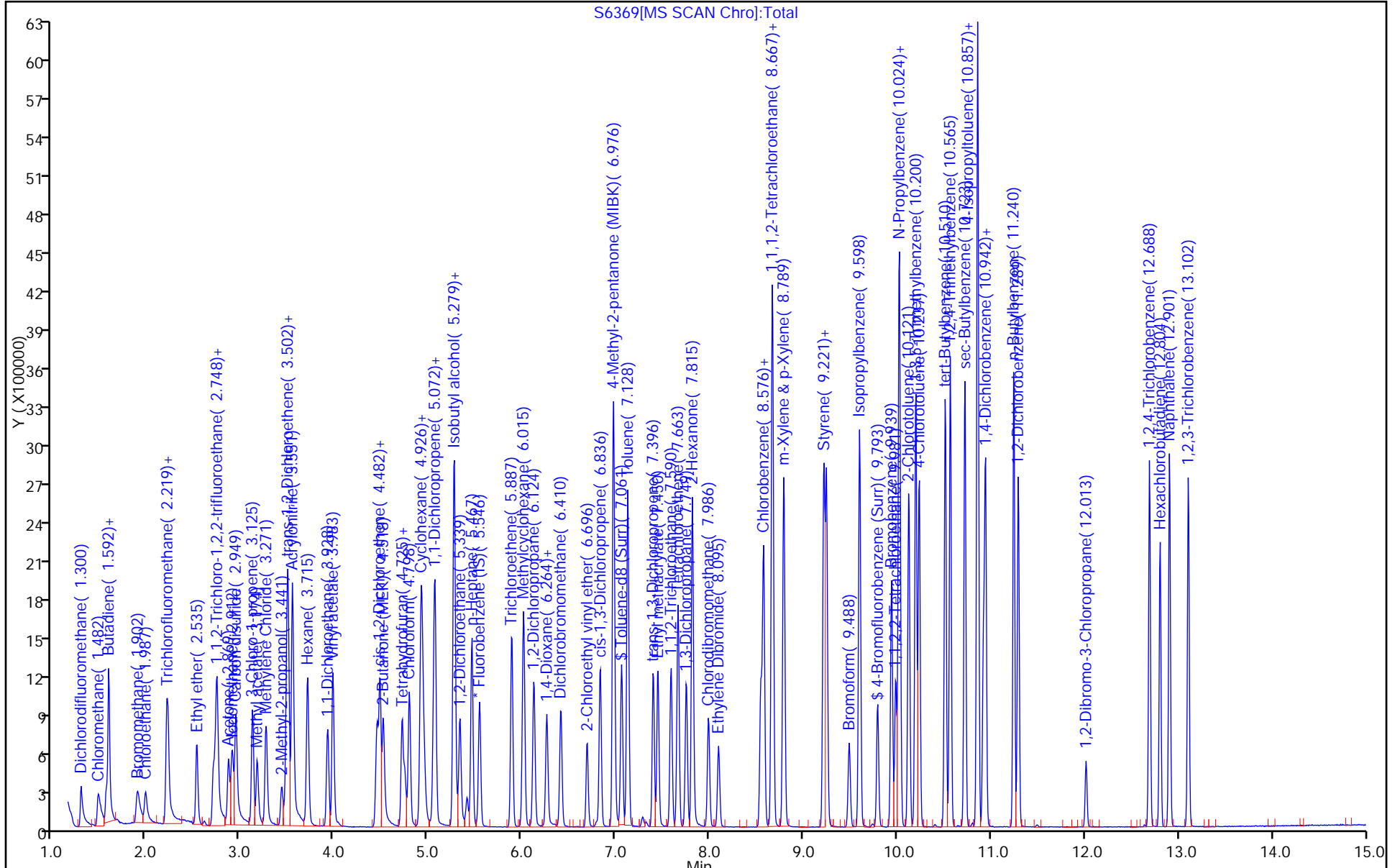
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6370.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 10-Jan-2018 03:24:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0068466-011
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:30 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 09:23:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	166632	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.546	-0.001	83	343925	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	17	368304	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	75	210413	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.267	-0.001	0	127329	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	90	860639	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.792	9.793	-0.001	88	297924	25.0	24.9	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	99	914056	100.0	102.6	
12 Chloromethane	50	1.488	1.483	0.005	99	847109	100.0	92.1	
13 Vinyl chloride	62	1.574	1.574	0.000	98	953184	100.0	98.6	
151 Butadiene	54	1.598	1.592	0.006	87	836458	100.0	87.1	
14 Bromomethane	94	1.908	1.896	0.012	90	639100	100.0	87.9	
15 Chloroethane	64	1.993	1.987	0.006	99	581997	100.0	98.0	
16 Dichlorofluoromethane	67	2.212	2.213	-0.001	82	1381233	100.0	94.3	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	99	1117793	100.0	96.7	
18 Ethyl ether	59	2.535	2.535	0.000	86	690803	100.0	100.5	
20 Acrolein	56	2.711	2.711	0.000	97	742443	500.0	454.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.736	2.742	-0.006	92	714686	100.0	107.4	
22 1,1-Dichloroethene	96	2.754	2.748	0.006	91	759077	100.0	108.7	
23 Acetone	43	2.869	2.876	-0.007	100	1515206	500.0	472.4	
25 Iodomethane	142	2.912	2.912	0.000	98	1384918	100.0	106.3	
26 Carbon disulfide	76	2.948	2.949	-0.001	98	2431777	100.0	102.4	
28 3-Chloro-1-propene	41	3.131	3.131	0.000	88	1099935	100.0	101.4	
27 Methyl acetate	43	3.174	3.180	-0.006	94	1162544	200.0	203.5	
30 Methylene Chloride	84	3.271	3.271	0.000	86	841028	100.0	91.8	
31 2-Methyl-2-propanol	59	3.441	3.448	-0.007	100	838444	1000.0	1146.7	
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	85	2660879	100.0	98.4	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	82	863205	100.0	101.5	
33 Acrylonitrile	53	3.551	3.557	-0.006	97	3018045	1000.0	992.1	
35 Hexane	57	3.715	3.715	0.000	90	1133503	100.0	100.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	96	1367268	100.0	102.4	
37 Vinyl acetate	43	3.983	3.989	-0.006	97	3172748	200.0	206.9	
44 2,2-Dichloropropane	77	4.457	4.451	0.006	89	1090781	100.0	98.4	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	76	969744	100.0	99.7	
43 2-Butanone (MEK)	43	4.518	4.537	-0.018	93	1978443	500.0	492.7	
48 Chlorobromomethane	128	4.725	4.725	0.000	85	503161	100.0	102.1	
49 Tetrahydrofuran	42	4.749	4.768	-0.019	82	523854	200.0	199.6	
50 Chloroform	83	4.798	4.804	-0.006	83	1461401	100.0	100.5	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	95	1269842	100.0	101.3	
52 Cyclohexane	56	4.932	4.938	-0.006	86	1231205	100.0	105.9	
55 Carbon tetrachloride	117	5.059	5.066	-0.007	91	1181965	100.0	104.3	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	94	1161709	100.0	103.6	
57 Benzene	78	5.278	5.279	-0.001	96	3405384	100.0	98.7	
53 Isobutyl alcohol	43	5.278	5.285	-0.007	49	1109896	2500.0	2750.6	
58 1,2-Dichloroethane	62	5.339	5.340	-0.001	79	1112826	100.0	98.5	
59 n-Heptane	43	5.467	5.467	0.000	91	1166252	100.0	103.4	
62 Trichloroethene	95	5.893	5.887	0.006	95	906220	100.0	99.7	
64 Methylcyclohexane	83	6.015	6.021	-0.006	85	1525363	100.0	104.4	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	93	794508	100.0	101.1	
67 Dibromomethane	93	6.264	6.258	0.006	90	555699	100.0	99.8	
66 1,4-Dioxane	88	6.270	6.289	-0.019	33	234045	2000.0	2008.8	
68 Dichlorobromomethane	83	6.416	6.416	0.000	93	1161506	100.0	104.7	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	554979	100.0	105.4	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	91	1382509	100.0	105.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.976	6.982	-0.006	93	3969955	500.0	489.4	
74 Toluene	92	7.128	7.128	0.000	99	2279509	100.0	100.2	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	91	1330657	100.0	111.1	
75 Ethyl methacrylate	69	7.450	7.451	-0.001	68	1271705	100.0	105.4	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	85	655334	100.0	101.0	
81 Tetrachloroethene	166	7.663	7.663	0.000	94	1093313	100.0	104.3	
82 1,3-Dichloropropane	76	7.748	7.755	-0.007	89	1355048	100.0	99.9	
80 2-Hexanone	43	7.815	7.822	-0.007	90	3069448	500.0	495.2	
83 Chlorodibromomethane	129	7.986	7.986	0.000	88	960414	100.0	110.2	
84 Ethylene Dibromide	107	8.095	8.095	0.000	100	857263	100.0	102.3	
87 Chlorobenzene	112	8.576	8.576	0.000	95	2556714	100.0	100.0	
88 Ethylbenzene	91	8.667	8.673	-0.006	46	4067161	100.0	97.1	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	47	930808	100.0	104.1	
90 m-Xylene & p-Xylene	106	8.789	8.795	-0.006	0	1758300	100.0	101.5	
91 o-Xylene	106	9.215	9.221	-0.006	96	1682319	100.0	103.7	
92 Styrene	104	9.245	9.245	0.000	94	2886675	100.0	103.6	
95 Bromoform	173	9.488	9.489	-0.001	97	684016	100.0	118.1	
94 Isopropylbenzene	105	9.598	9.598	0.000	95	4149484	100.0	97.6	
101 Bromobenzene	156	9.938	9.945	-0.007	89	1182211	100.0	102.0	
97 1,1,2,2-Tetrachloroethane	83	9.981	9.987	-0.006	80	1080627	100.0	101.2	
100 1,2,3-Trichloropropane	110	10.018	10.018	0.000	50	366275	100.0	96.2	
99 N-Propylbenzene	91	10.024	10.024	0.000	96	4614918	100.0	96.0	
98 trans-1,4-Dichloro-2-buten	53	10.030	10.036	-0.006	39	292231	100.0	137.6	
103 2-Chlorotoluene	126	10.127	10.121	0.006	97	1040944	100.0	99.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	93	3511320	100.0	97.7	
105 4-Chlorotoluene	126	10.237	10.237	0.000	95	1112388	100.0	103.7	
106 tert-Butylbenzene	134	10.510	10.511	-0.001	90	859089	100.0	100.0	
107 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	76	3587606	100.0	97.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	93	4335522	100.0	95.4	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	75	2178348	100.0	99.4	
110 4-Isopropyltoluene	119	10.863	10.857	0.006	95	3832555	100.0	96.0	
113 1,4-Dichlorobenzene	146	10.942	10.943	0.000	94	2221187	100.0	97.3	
115 n-Butylbenzene	91	11.240	11.247	-0.007	93	3331858	100.0	96.2	
116 1,2-Dichlorobenzene	146	11.289	11.295	-0.006	92	2083589	100.0	99.0	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	88	220136	100.0	101.2	
119 1,2,4-Trichlorobenzene	180	12.688	12.695	-0.007	95	1599598	100.0	99.4	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	97	744780	100.0	96.5	
121 Naphthalene	128	12.901	12.907	-0.006	97	3969443	100.0	98.0	
122 1,2,3-Trichlorobenzene	180	13.102	13.108	-0.006	94	1510374	100.0	98.9	
S 124 Xylenes, Total	1				0			205.1	
S 123 Total BTEX	1				0			501.1	
S 126 1,3-Dichloropropene, Total	1				0			216.9	
S 125 1,2-Dichloroethene, Total	1				0			201.2	

Reagents:

8260 CORP mix_00118	Amount Added: 50.00	Units: uL	
GAS CORP mix_00259	Amount Added: 50.00	Units: uL	
S_8260_IS_00277	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00244	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6370.D

Injection Date: 10-Jan-2018 03:24:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 7

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

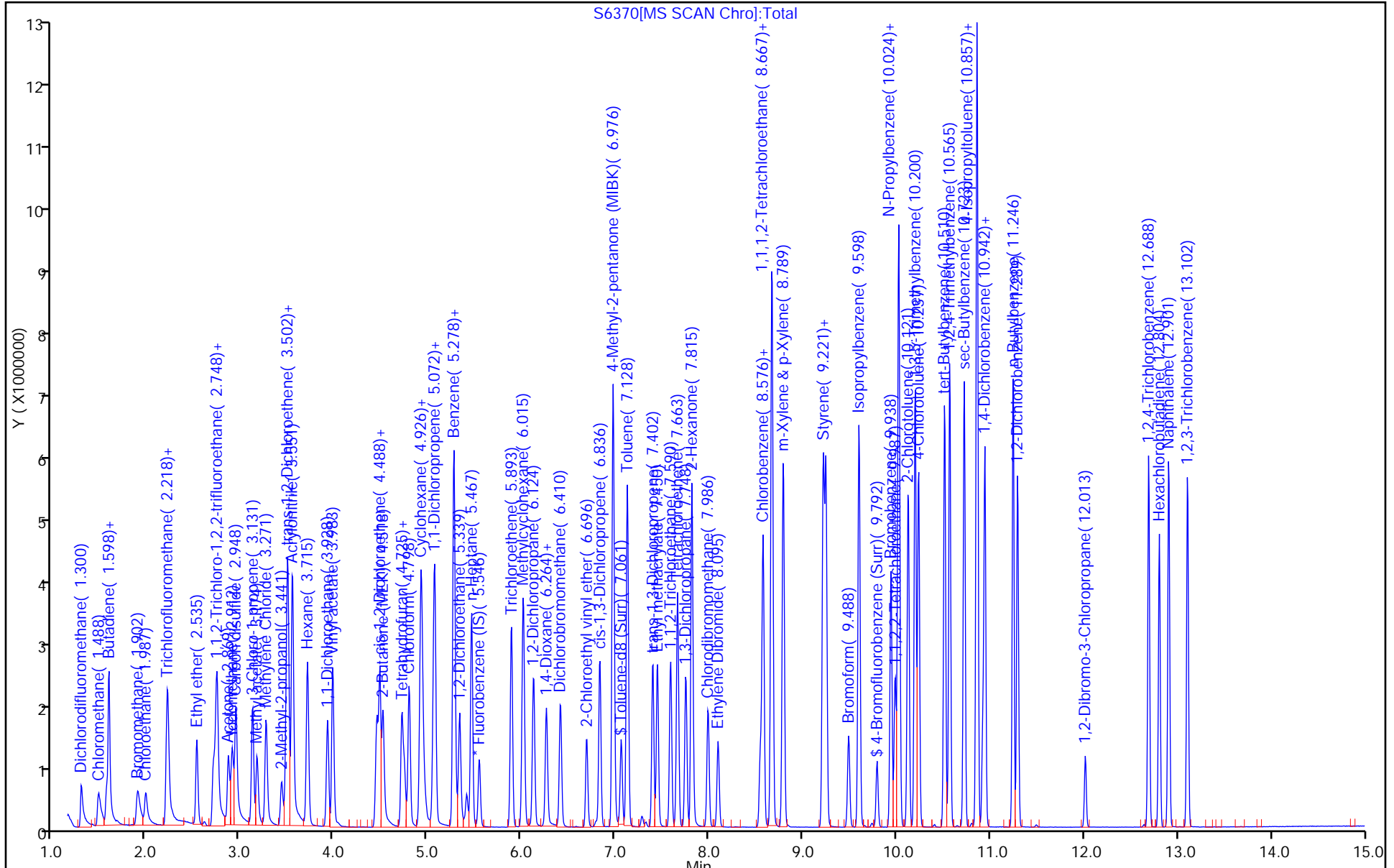
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 05:21 Calibration End Date: 01/10/2018 07:40 Calibration ID: 32526

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-395114/16	S6375.D
Level 2	IC 480-395114/17	S6376.D
Level 3	IC 480-395114/18	S6377.D
Level 4	IC 480-395114/19	S6378.D
Level 5	IC 480-395114/20	S6379.D
Level 6	IC 480-395114/21	S6380.D
Level 7	IC 480-395114/22	S6381.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Chlorodifluoromethane	++++ 1.3249	1.3418 1.3333	1.3824	1.2017	1.3776	Ave		1.3270			5.0		20.0				
Ethanol	++++ 0.0059	0.0066 0.0076	0.0065	0.0056	0.0059	Ave		0.0064			11.6		20.0				
Isopropyl alcohol	++++ 0.0483	0.0251 0.0635	0.0349	0.0352	0.0412	Ave		0.0414			32.1	*	20.0				
Acetonitrile	++++ 0.0822	0.0764 0.0827	0.0895	0.0709	0.0878	Ave		0.0816			8.6		20.0				
Isopropyl ether	++++ 3.6532	3.8987 3.5840	3.6997	3.3379	3.7210	Ave		3.6491			5.1		20.0				
Chloroprene	++++ 1.8540	1.7357 1.8461	1.8411	1.6351	1.8415	Ave		1.7922			5.0		20.0				
1,1-Dimethoxyethane	++++ 0.2149	0.1510 0.2268	0.1671	0.1646	0.1691	Ave		0.1823			16.9		20.0				
Tert-butyl ethyl ether	++++ 3.9820	4.3102 3.8626	3.8955	3.5728	3.9209	Ave		3.9240			6.0		20.0				
Ethyl acetate	1.1192 1.2697	1.4130 1.2695	1.2673	1.0649	1.2941	Ave		1.2425			9.3		20.0				
Propionitrile	++++ 0.1956	0.1604 0.2001	0.2023	0.1607	0.1969	Ave		0.1860			10.7		20.0				
Methacrylonitrile	0.6186 0.7773	0.7727 0.7350	0.7774	0.7039	0.7948	Ave		0.7399			8.4		20.0				
Isooctane	++++ 2.9653	3.8709 2.9053	3.7517	3.1612	3.1868	Ave		3.3068			12.3		20.0				
t-Amyl alcohol	0.0672 0.1527	0.1034 0.1541	0.1429	0.1273	0.1488	Lin1	-0.513	0.1527						0.9990		0.9900	
Tert-amyl methyl ether	++++ 5.0539	5.0481 5.0423	5.1010	4.4109	5.1909	Ave		4.9745			5.7		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 01/10/2018 05:21 Calibration End Date: 01/10/2018 07:40 Calibration ID: 32526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,4-Difluorobenzene	++++ 4.4215	4.3040 4.3345	4.5505	4.0654	4.4344	Ave		4.3517			3.8		20.0				
n-Butanol	++++ 0.0407	0.0219 ++++	0.0291	0.0292	0.0378	Lin1	-0.698	0.0393						0.9920		0.9900	
Ethyl acrylate	1.6755 1.8095	2.1694 1.8124	1.6188	1.4770	1.8221	Ave		1.7692			12.3		20.0				
Methyl methacrylate	0.8044 1.1773	1.4331 1.1438	1.1644	1.0152	1.1878	Ave		1.1323			16.8		20.0				
2-Nitropropane	++++ 0.1648	0.1766 0.1820	0.1606	0.1289	0.1566	Ave		0.1616			11.6		20.0				
Epichlorohydrin	++++ 0.1501	0.1359 0.1514	0.1305	0.1136	0.1426	Ave		0.1373			10.3		20.0				
2-Methylthiophene	++++ 2.0412	2.0237 2.0233	2.1440	2.1437	1.9276	Ave		2.0506			4.0		20.0				
3-Methylthiophene	++++ 2.1126	2.0478 2.0775	1.8328	1.9106	2.0250	Ave		2.0011			5.4		20.0				
n-Butyl acetate	2.0654 2.0171	1.5507 2.0111	1.7466	1.5204	1.9271	Ave		1.8340		0.1000	12.5		20.0				
1-Chlorohexane	1.1982 0.5463	1.0243 0.5429	0.6401	0.5344	0.5511	Lin1	0.3786	0.5374						0.9990		0.9900	
3-Chlorobenzotrifluoride	++++ 1.0595	1.1489 1.0829	1.1205	1.0002	1.0749	Ave		1.0812			4.8		20.0				
4-Chlorobenzotrifluoride	++++ 1.0296	1.0925 1.0393	1.0959	0.9342	1.0290	Ave		1.0367			5.7		20.0				
2-Chlorobenzotrifluoride	++++ 1.1040	1.0576 1.1144	1.0927	0.9988	1.1046	Ave		1.0787			4.1		20.0				
Cyclohexanone	0.0391 0.0242	0.0348 0.0248	0.0254	0.0215	0.0248	Lin1	0.0728	0.0243						0.9990		0.9900	
3-Chlorotoluene	++++ 0.7757	0.7242 0.7904	0.7699	0.7086	0.7725	Ave		0.7569			4.3		20.0				
Pentachloroethane	0.2010 0.1859	0.2700 0.2218	0.2217	0.2120	0.2479	Ave		0.2229			12.7		20.0				
Dicyclopentadiene	++++ 2.7608	2.9906 2.7195	2.7698	2.5061	2.7838	Ave		2.7551			5.6		20.0				
1,2,3-Trimethylbenzene	++++ 2.5962	2.7320 2.5409	2.5642	2.3711	2.6412	Ave		2.5743			4.7		20.0				
Benzyl chloride	++++ 0.3083	0.2698 0.3191	0.2429	0.2264	0.2950	Ave		0.2769			13.4		20.0				
1,3,5-Trichlorobenzene	++++ 1.2046	1.1177 1.2214	1.2023	1.0996	1.2184	Ave		1.1773			4.6		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 05:21 Calibration End Date: 01/10/2018 07:40 Calibration ID: 32526

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
2-Methylnaphthalene	+++++	1.2920	1.5753	1.5031	1.8168	Ave		1.6777			15.8		20.0				
	1.8801	1.9988															

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 05:21 Calibration End Date: 01/10/2018 07:40 Calibration ID: 32526

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-395114/16	S6375.D
Level 2	IC 480-395114/17	S6376.D
Level 3	IC 480-395114/18	S6377.D
Level 4	IC 480-395114/19	S6378.D
Level 5	IC 480-395114/20	S6379.D
Level 6	IC 480-395114/21	S6380.D
Level 7	IC 480-395114/22	S6381.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	++++ 417181	8241 861561	42519	73553	214293	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Ave	++++ 73969	1624 197128	8031	13826	36409	++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	++++ 152185	1543 410422	10743	21557	64033	++++ 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	++++ 258822	4691 534675	27527	43419	136584	++++ 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	++++ 1150288	23945 2315895	113789	204301	578813	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	++++ 583769	10660 1192912	56626	100079	286460	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	++++ 338257	4637 732898	25704	50359	131553	++++ 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	++++ 1253842	26472 2495945	119812	218676	609918	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	7090 799578	17356 1640621	77953	130353	402601	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	++++ 615754	9849 1293033	62230	98370	306297	++++ 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	19593 2447385	47456 4749239	239104	430855	1236280	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	++++ 933684	23774 1877318	115390	193483	495725	++++ 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Lin1	2127 480880	6351 995822	43950	77914	231509	5.00 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	++++ 1591347	31004 3258231	156890	269976	807466	++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	++++ 1392226	26434 2800855	139959	248827	689796	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 05:21

Calibration End Date: 01/10/2018 07:40

Calibration ID: 32526

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	FB	Lin1	++++ 320431	3364 ++++	22366	44619	146923	++++ 1250	25.0 ++++	125	250	625
Ethyl acrylate	FB	Ave	5307 569749	13324 1171107	49790	90403	283435	0.500 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	5096 741394	17604 1478234	71629	124276	369528	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCBd 4	Ave	++++ 239957	4978 524979	22525	35648	111703	++++ 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	++++ 472503	8344 978051	40126	69511	221774	++++ 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCBd 4	Ave	++++ 1486091	28527 2917744	150344	296418	687277	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCBd 4	Ave	++++ 1538067	28866 2995882	128519	264194	722007	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	FB	Ave	6542 635130	9524 1299503	53718	93059	299763	0.500 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBNZ d5	Lin1	7845 371056	13587 748187	41677	69822	185787	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCBd 4	Ave	++++ 771383	16195 1561623	78573	138305	383260	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCBd 4	Ave	++++ 749622	15401 1498693	76843	129175	366881	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCBd 4	Ave	++++ 803760	14909 1606988	76623	138107	393842	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCBd 4	Lin1	2701 175973	4910 357152	17815	29728	88443	5.00 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCBd 4	Ave	++++ 564725	10209 1139786	53987	97989	275430	++++ 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCBd 4	Ave	1390 135321	3806 319820	15547	29317	88377	0.500 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCBd 4	Ave	++++ 2009974	42156 3921630	194220	346535	992535	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	++++ 1890127	38511 3664169	179803	327872	941689	++++ 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBNZ d5	Ave	++++ 209355	3579 439787	15813	29584	99441	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 877016	15755 1761289	84307	152045	434419	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCBd 4	Ave	++++ 1368827	18212 2882371	110464	207845	647757	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 395114

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2018 05:21 Calibration End Date: 01/10/2018 07:40 Calibration ID: 32526

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6375.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Jan-2018 05:21:30 ALS Bottle#: 16 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0068466-016
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:02 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:10:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	158375	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	83	327376	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	93	345768	25.0	25.0	
11 Chlorodifluoromethane	51	1.318	1.324	-0.006	9	2889	0.5000	0.3437	
148 Ethanol	45	2.535	2.529	0.006	39	1080	20.0	26.8	
19 Propene oxide	58	2.626	2.620	0.006	74	4526	NC	NC	
24 Isopropyl alcohol	45	3.070	3.076	-0.006	41	655	5.00	2.50	
29 Acetonitrile	40	3.210	3.186	0.024	30	5004	5.00	9.68	
36 Isopropyl ether	45	3.952	3.952	0.000	71	9330	0.5000	0.4036	
40 2-Chloro-1,3-butadiene	53	3.989	3.995	-0.006	13	4872	0.5000	0.4291	
38 1,1-Dimethoxyethane	75	4.056	4.031	0.025	24	1783	2.50	1.54	M
41 Tert-butyl ethyl ether	59	4.287	4.293	-0.006	70	10854	0.5000	0.4366	
42 Ethyl acetate	43	4.597	4.561	0.036	21	7090	1.00	0.9007	
46 Propionitrile	54	4.664	4.628	0.036	17	4623	5.00	3.92	M
47 Methacrylonitrile	41	4.737	4.731	0.006	77	19593	5.00	4.18	
152 Isooctane	57	5.279	5.279	0.000	25	7967	0.5000	0.3803	
147 t-Amyl alcohol	59	5.352	5.345	0.007	32	2127	5.00	5.56	
56 Tert-amyl methyl ether	73	5.364	5.358	0.006	84	14315	0.5000	0.4542	
1 1,4-Difluorobenzene	114	5.662	5.656	0.006	40	11115	0.5000	0.4032	
60 n-Butanol	56		5.923				ND	ND	
142 Ethyl acrylate	55	6.045	6.015	0.030	17	5307	0.5000	0.4735	
63 Methyl methacrylate	41	6.234	6.228	0.006	57	5096	1.00	0.7104	
70 2-Nitropropane	43	6.666	6.660	0.006	64	2693	1.00	1.20	
71 Epichlorohydrin	57		6.793				ND	ND	
76 2-Methylthiophene	97	7.268	7.268	0.000	55	13099	0.5000	0.4619	
78 3-Methylthiophene	97	7.426	7.432	-0.006	45	15988	0.5000	0.5777	
155 n-Butyl acetate	43	7.961	7.931	0.030	1	6542	0.5000	0.5631	M
146 1-Chlorohexane	55	8.539	8.527	0.012	29	7845	0.5000	0.4103	
85 3-Chlorobenzotrifluoride	180	8.545	8.545	0.000	23	5212	0.5000	0.3486	
86 4-Chlorobenzotrifluoride	180	8.606	8.606	0.000	1	6467	0.5000	0.4510	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.519	9.519	0.000	29	5710	0.5000	0.3827	
96 Cyclohexanone	55	9.774	9.762	0.012	9	2701	5.00	5.04	
104 3-Chlorotoluene	126	10.188	10.188	0.000	41	3821	0.5000	0.3650	
108 Pentachloroethane	167	10.565	10.565	0.000	2	1390	0.5000	0.4509	
114 Dicyclopentadiene	66	10.918	10.924	-0.006	40	20842	0.5000	0.5470	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	1	14739	0.5000	0.4140	
150 Benzyl chloride	126	11.095	11.088	0.006	1	1252	0.5000	0.3453	
118 1,3,5-Trichlorobenzene	180	12.153	12.153	0.000	57	7193	0.5000	0.4417	
149 2-Methylnaphthalene	142	13.820	13.814	0.006	27	8125	0.5000	0.3502	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 0.50	Units: uL
2MTP_WRK_00068	Amount Added: 0.50	Units: uL
3MTP_WRK_00069	Amount Added: 0.50	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6375.D

Injection Date: 10-Jan-2018 05:21:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 8

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

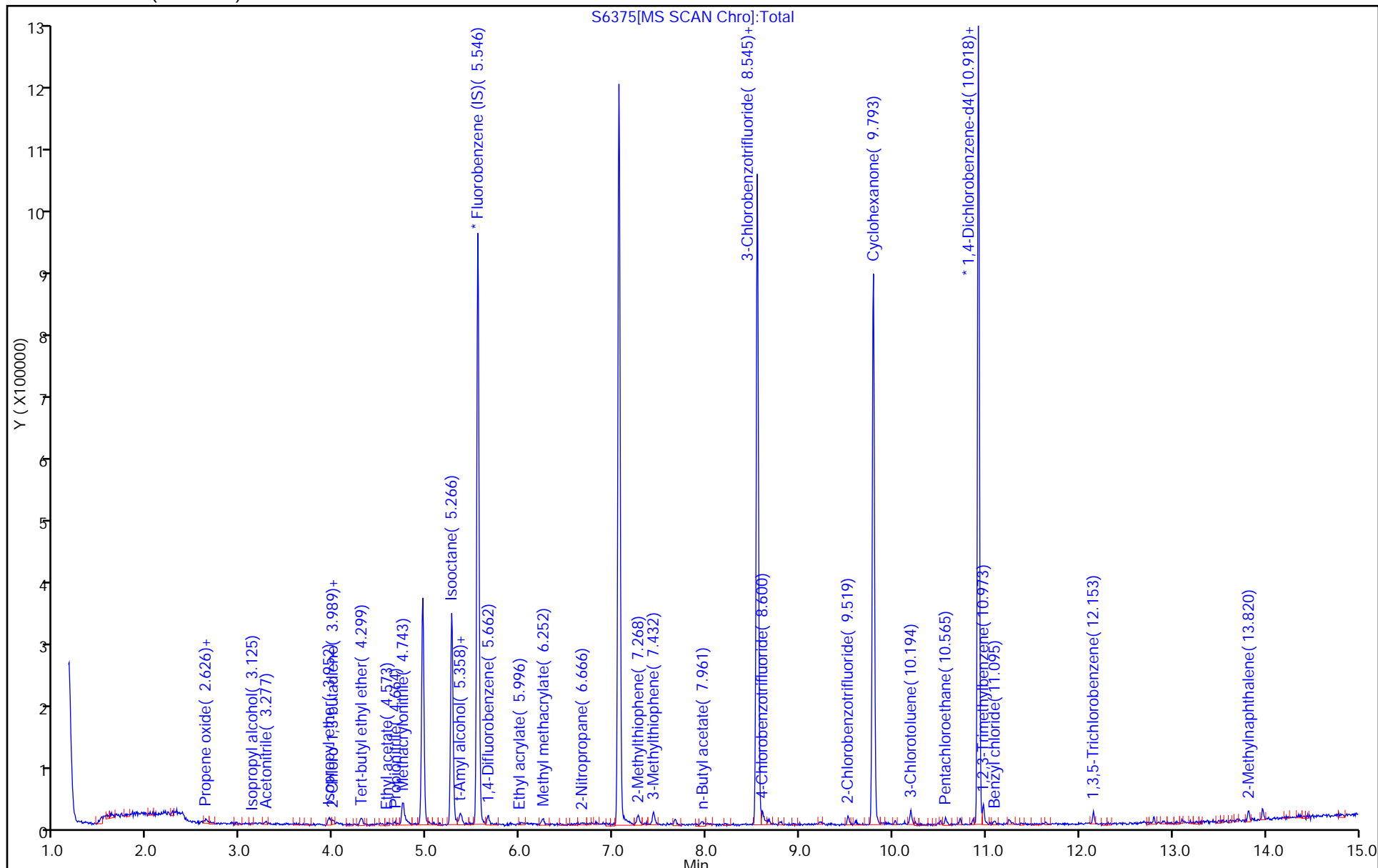
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

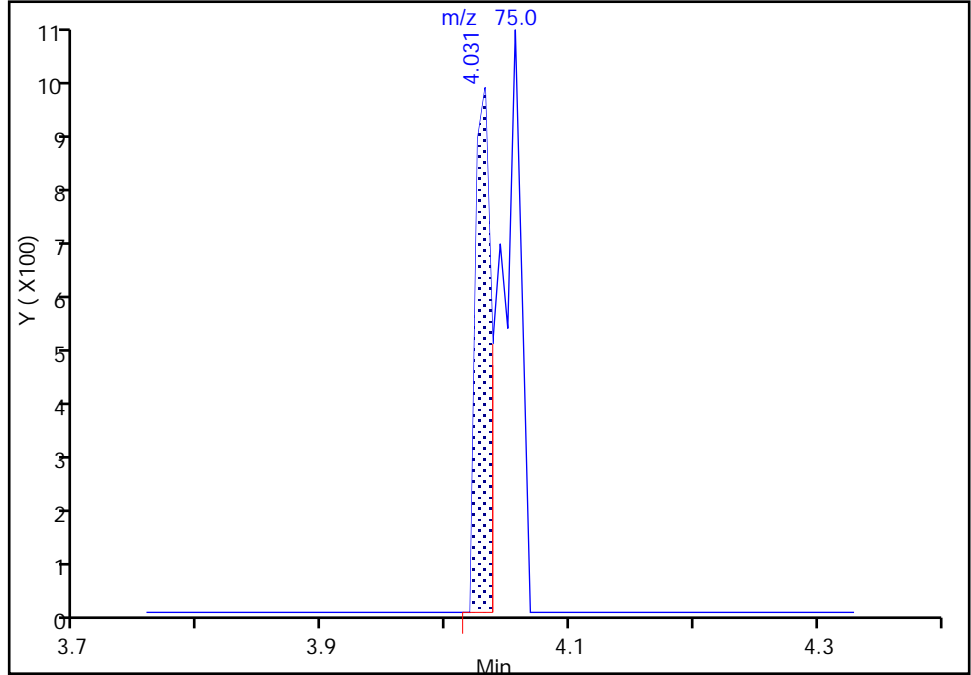
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6375.D
Injection Date: 10-Jan-2018 05:21:30 Instrument ID: HP5973S
Lims ID: IC 8
Client ID:
Operator ID: AS ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

38 1,1-Dimethoxyethane, CAS: 534-15-6

Signal: 1

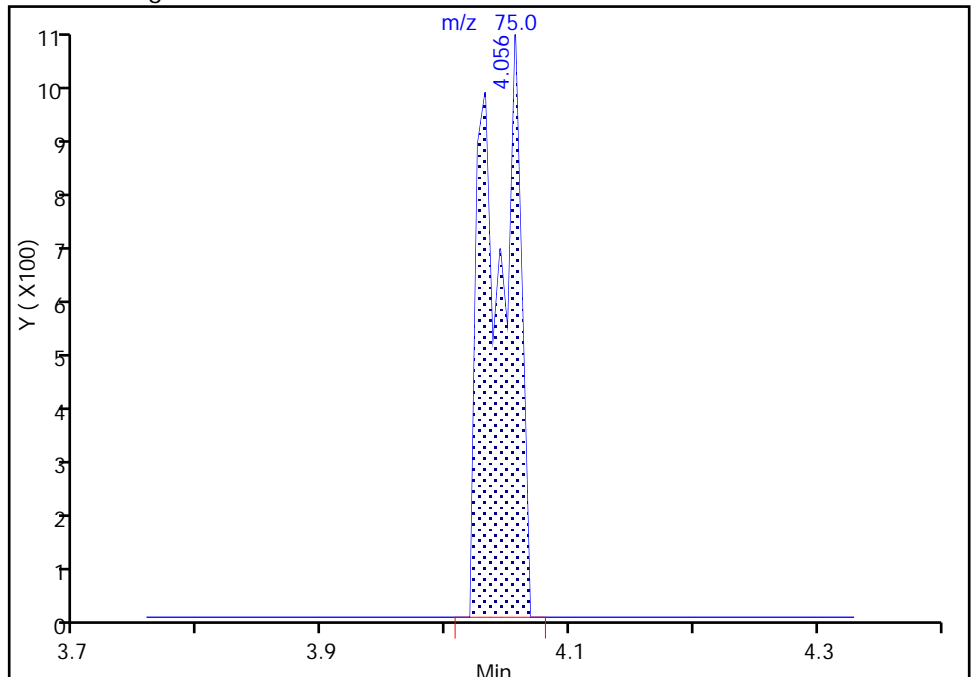
RT: 4.03
Area: 808
Amount: 3.059296
Amount Units: ug/L

Processing Integration Results



RT: 4.06
Area: 1783
Amount: 1.544276
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:10:34
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

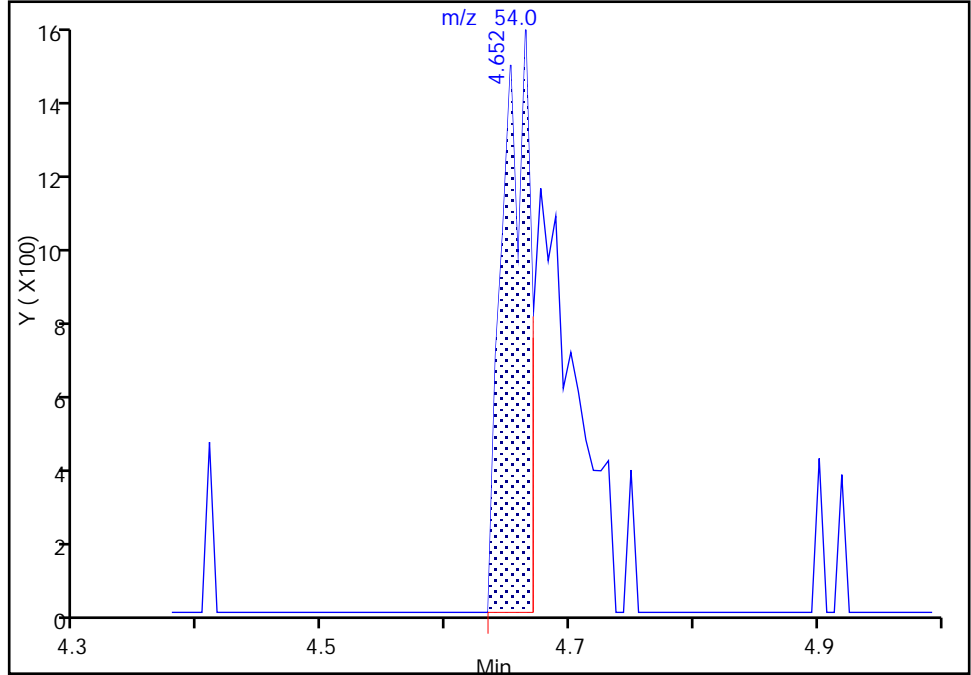
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6375.D
Injection Date: 10-Jan-2018 05:21:30 Instrument ID: HP5973S
Lims ID: IC 8
Client ID:
Operator ID: AS ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

46 Propionitrile, CAS: 107-12-0

Signal: 1

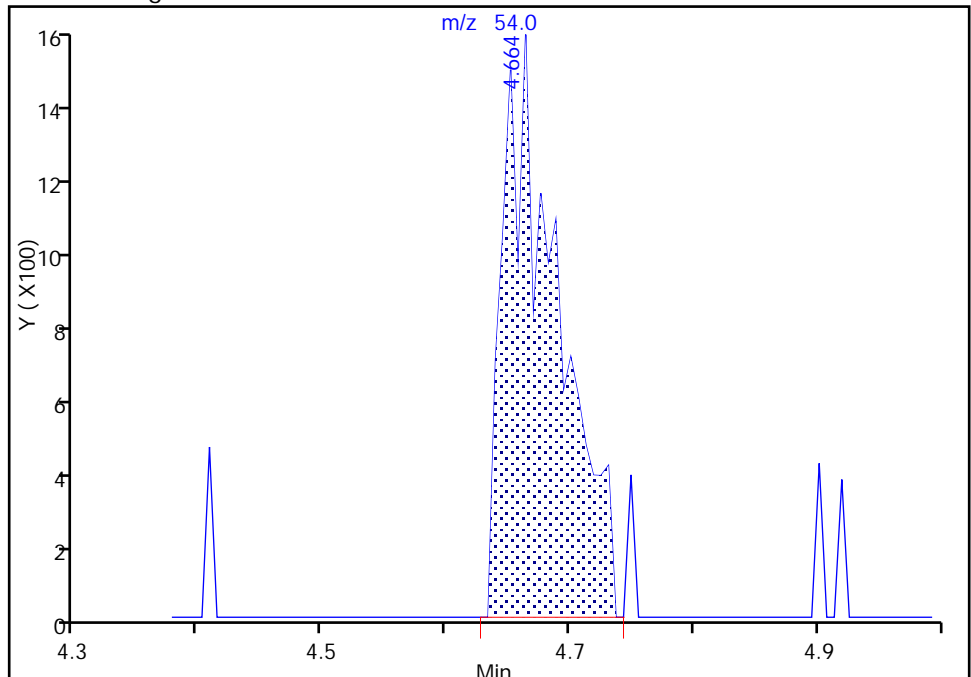
RT: 4.65
Area: 2279
Amount: 6.403987
Amount Units: ug/L

Processing Integration Results



RT: 4.66
Area: 4623
Amount: 3.923500
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:11:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

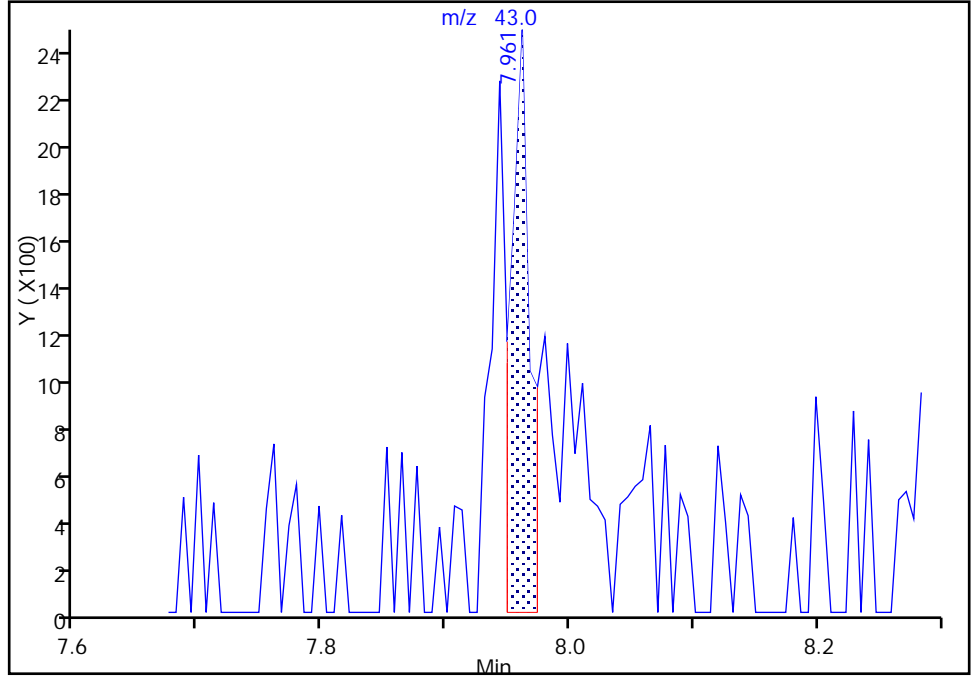
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6375.D
Injection Date: 10-Jan-2018 05:21:30 Instrument ID: HP5973S
Lims ID: IC 8
Client ID:
Operator ID: AS ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

155 n-Butyl acetate, CAS: 123-86-4

Signal: 1

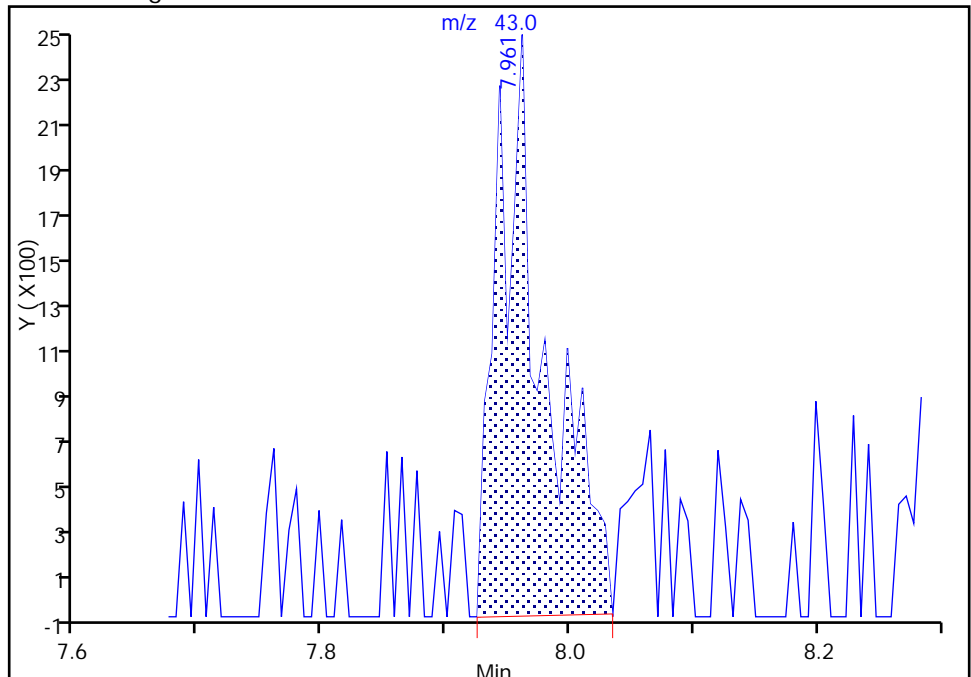
RT: 7.96
Area: 2660
Amount: 0.555566
Amount Units: ug/L

Processing Integration Results



RT: 7.96
Area: 6542
Amount: 0.563064
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:12:02
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6376.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Jan-2018 05:44:30 ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0068466-017
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:04 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:13:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	153544	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	85	331608	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	93	352410	25.0	25.0	
11 Chlorodifluoromethane	51	1.324	1.324	0.000	40	8241	1.00	1.01	
148 Ethanol	45	2.541	2.529	0.012	15	1624	40.0	41.6	
19 Propene oxide	58		2.620				ND	ND	
24 Isopropyl alcohol	45	3.070	3.076	-0.006	26	1543	10.0	6.07	
29 Acetonitrile	40	3.192	3.186	0.006	58	4691	10.0	9.36	
36 Isopropyl ether	45	3.952	3.952	0.000	81	23945	1.00	1.07	
40 2-Chloro-1,3-butadiene	53	3.989	3.995	-0.006	54	10660	1.00	0.9684	
38 1,1-Dimethoxyethane	75	4.031	4.031	0.000	62	4637	5.00	4.14	
41 Tert-butyl ethyl ether	59	4.293	4.293	0.000	90	26472	1.00	1.10	
42 Ethyl acetate	43	4.585	4.561	0.024	85	17356	2.00	2.27	
46 Propionitrile	54	4.640	4.628	0.012	76	9849	10.0	8.62	M
47 Methacrylonitrile	41	4.737	4.731	0.006	92	47456	10.0	10.4	
152 Isooctane	57	5.279	5.279	0.000	37	23774	1.00	1.17	
147 t-Amyl alcohol	59	5.358	5.345	0.013	33	6351	10.0	10.1	
56 Tert-amyl methyl ether	73	5.358	5.358	0.000	92	31004	1.00	1.01	
1 1,4-Difluorobenzene	114	5.656	5.656	0.000	63	26434	1.00	0.9890	
60 n-Butanol	56	5.960	5.923	0.037	43	3364	25.0	31.7	
142 Ethyl acrylate	55	6.027	6.015	0.012	44	13324	1.00	1.23	M
63 Methyl methacrylate	41	6.234	6.228	0.006	76	17604	2.00	2.53	
70 2-Nitropropane	43	6.660	6.660	0.000	53	4978	2.00	2.19	
71 Epichlorohydrin	57	6.799	6.793	0.006	37	8344	10.0	9.89	
76 2-Methylthiophene	97	7.268	7.268	0.000	81	28527	1.00	0.9869	
78 3-Methylthiophene	97	7.432	7.432	0.000	71	28866	1.00	1.02	
155 n-Butyl acetate	43	7.943	7.931	0.012	73	9524	1.00	0.8455	
146 1-Chlorohexane	55	8.527	8.527	0.000	36	13587	1.00	1.20	
85 3-Chlorobenzotrifluoride	180	8.539	8.545	-0.006	40	16195	1.00	1.06	
86 4-Chlorobenzotrifluoride	180	8.600	8.606	-0.006	51	15401	1.00	1.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.525	9.519	0.006	56	14909	1.00	0.9805	
96 Cyclohexanone	55	9.774	9.762	0.012	12	4910	10.0	11.3	
104 3-Chlorotoluene	126	10.188	10.188	0.000	85	10209	1.00	0.9568	
108 Pentachloroethane	167	10.571	10.565	0.006	42	3806	1.00	1.21	
114 Dicyclopentadiene	66	10.924	10.924	0.000	43	42156	1.00	1.09	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	26	38511	1.00	1.06	
150 Benzyl chloride	126	11.088	11.088	0.000	54	3579	1.00	0.9744	
118 1,3,5-Trichlorobenzene	180	12.159	12.153	0.006	57	15755	1.00	0.9493	
149 2-Methylnaphthalene	142	13.814	13.814	0.000	64	18212	1.00	0.7701	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 1.00	Units: uL
2MTP_WRK_00068	Amount Added: 1.00	Units: uL
3MTP_WRK_00069	Amount Added: 1.00	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6376.D

Injection Date: 10-Jan-2018 05:44:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 9

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

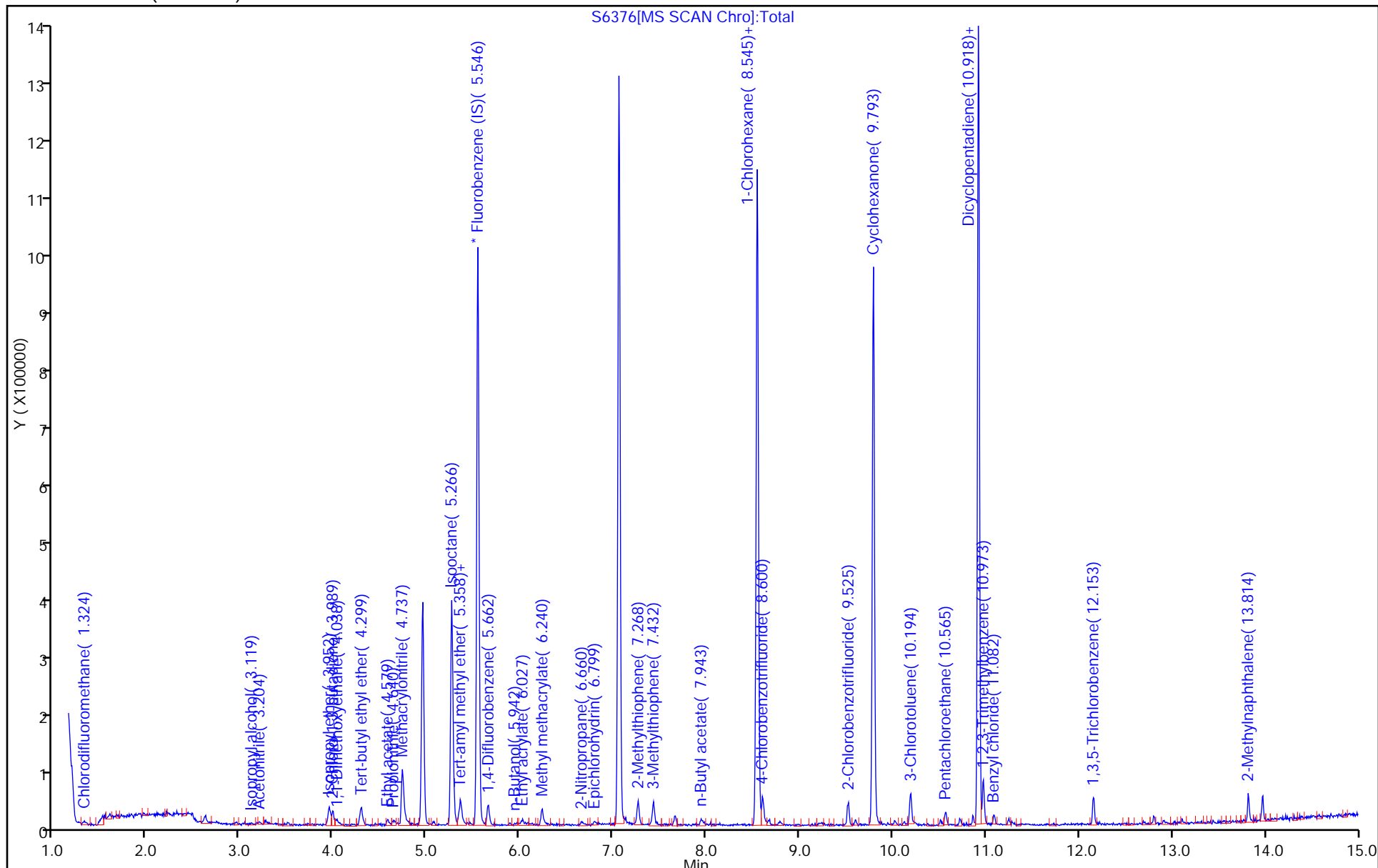
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

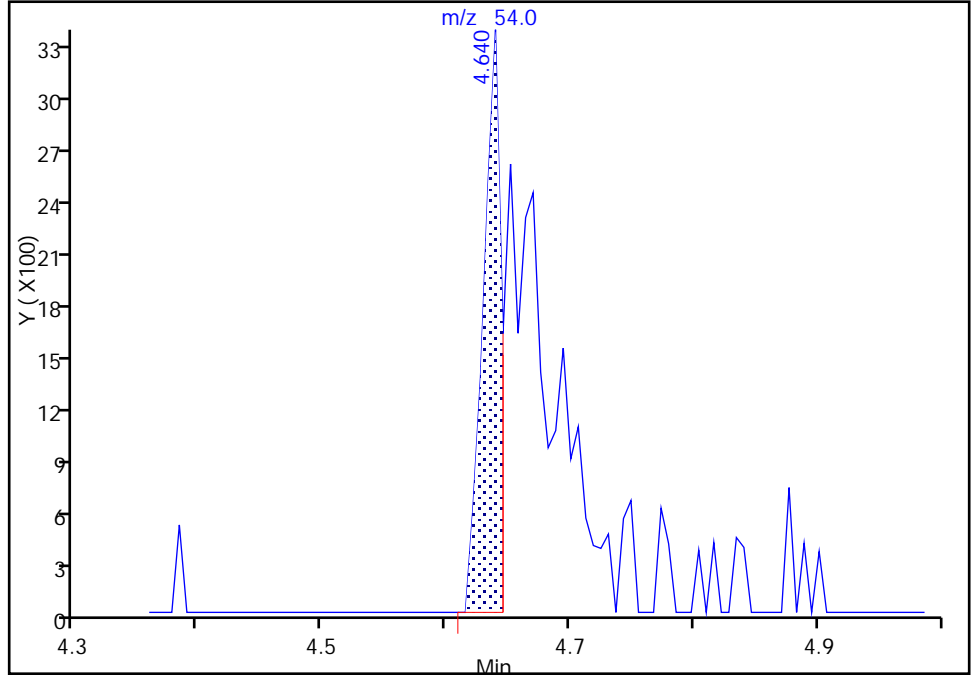
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6376.D
Injection Date: 10-Jan-2018 05:44:30 Instrument ID: HP5973S
Lims ID: IC 9
Client ID:
Operator ID: AS ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

46 Propionitrile, CAS: 107-12-0

Signal: 1

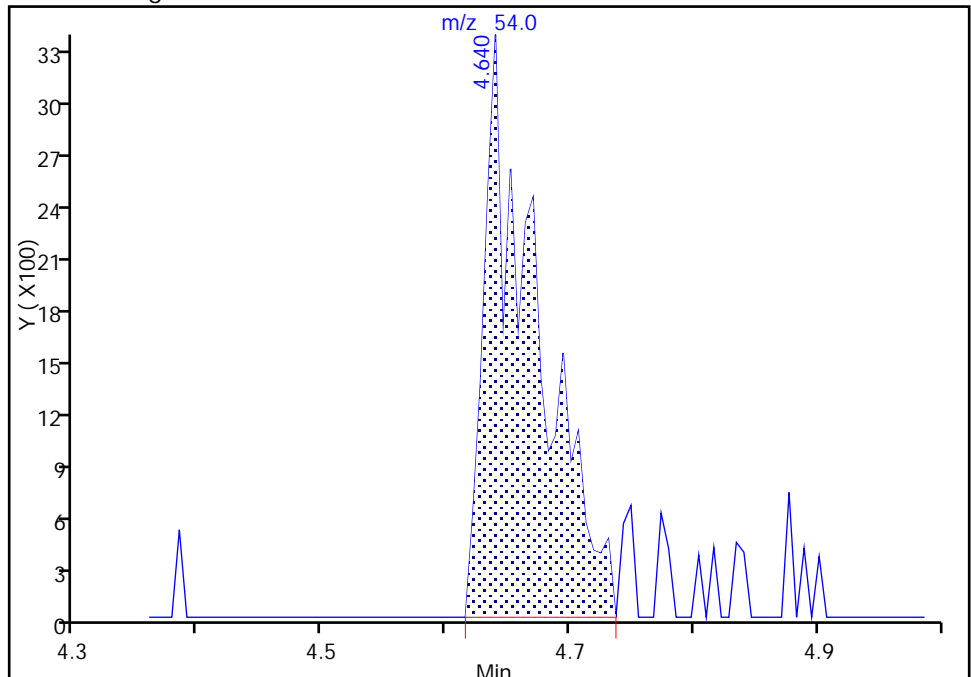
RT: 4.64
Area: 3439
Amount: 3.386055
Amount Units: ug/L

Processing Integration Results



RT: 4.64
Area: 9849
Amount: 8.621755
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:12:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

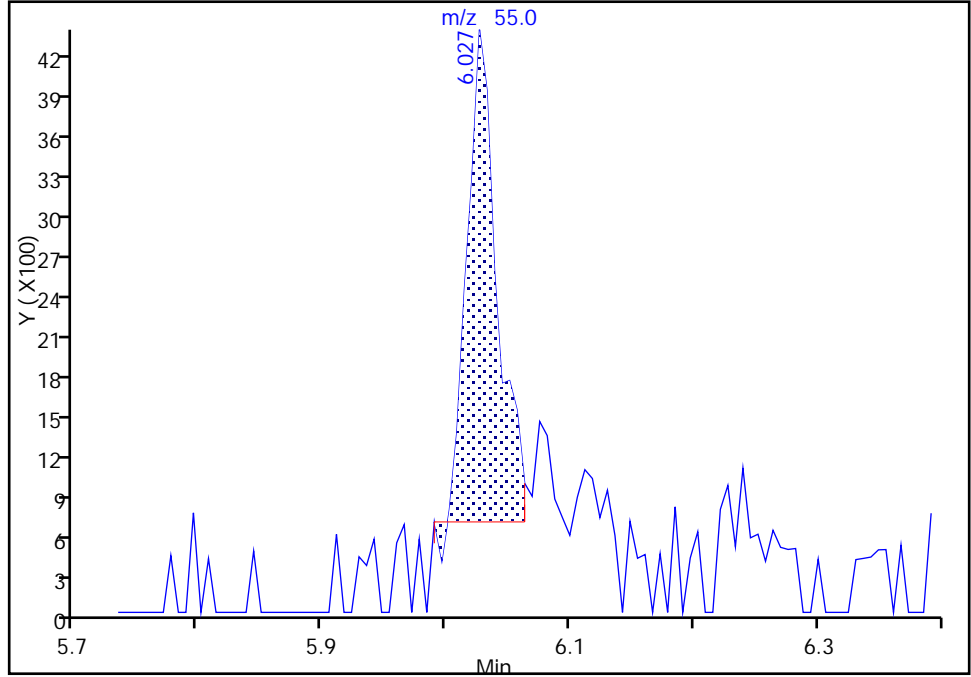
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Injection Date: 10-Jan-2018 05:44:30 Instrument ID: HP5973S
Lims ID: IC 9
Client ID:
Operator ID: AS ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

142 Ethyl acrylate, CAS: 140-88-5

Signal: 1

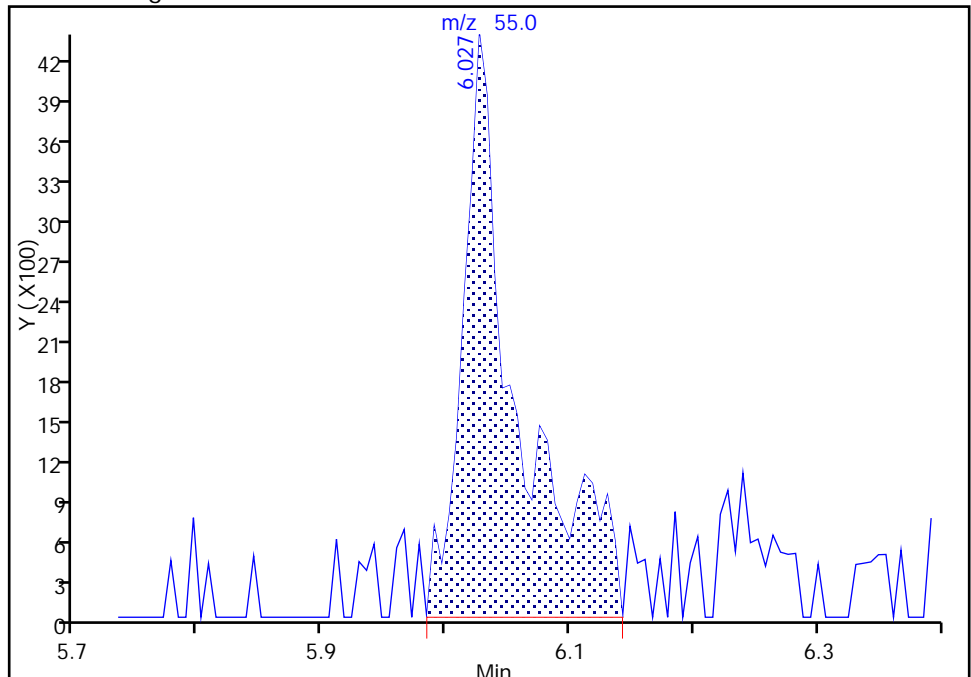
RT: 6.03
Area: 6136
Amount: 0.623619
Amount Units: ug/L

Processing Integration Results



RT: 6.03
Area: 13324
Amount: 1.226189
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:12:58
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6377.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Jan-2018 06:07:30 ALS Bottle#: 18 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0068466-018
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:06 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:13:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	153783	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	85	325568	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	93	350608	25.0	25.0	
11 Chlorodifluoromethane	51	1.330	1.324	0.006	69	42519	5.00	5.21	
148 Ethanol	45	2.529	2.529	0.000	57	8031	200.0	205.4	M
19 Propene oxide	58	2.620	2.620	0.000	94	47346	NC	NC	
24 Isopropyl alcohol	45	3.076	3.076	0.000	80	10743	50.0	42.2	
29 Acetonitrile	40	3.192	3.186	0.006	93	27527	50.0	54.8	
36 Isopropyl ether	45	3.952	3.952	0.000	91	113789	5.00	5.07	
40 2-Chloro-1,3-butadiene	53	3.989	3.995	-0.006	87	56626	5.00	5.14	
38 1,1-Dimethoxyethane	75	4.037	4.031	0.006	85	25704	25.0	22.9	
41 Tert-butyl ethyl ether	59	4.293	4.293	0.000	93	119812	5.00	4.96	
42 Ethyl acetate	43	4.567	4.561	0.006	96	77953	10.0	10.2	
46 Propionitrile	54	4.640	4.628	0.012	93	62230	50.0	54.4	
47 Methacrylonitrile	41	4.737	4.731	0.006	90	239104	50.0	52.5	
152 Isooctane	57	5.279	5.279	0.000	76	115390	5.00	5.67	
147 t-Amyl alcohol	59	5.345	5.345	0.000	39	43950	50.0	50.1	
56 Tert-amyl methyl ether	73	5.358	5.358	0.000	94	156890	5.00	5.13	
1 1,4-Difluorobenzene	114	5.656	5.656	0.000	92	139959	5.00	5.23	
60 n-Butanol	56	5.923	5.923	0.000	74	22366	125.0	110.2	
142 Ethyl acrylate	55	6.015	6.015	0.000	91	49790	5.00	4.57	
63 Methyl methacrylate	41	6.228	6.228	0.000	84	71629	10.0	10.3	
70 2-Nitropropane	43	6.660	6.660	0.000	96	22525	10.0	9.94	
71 Epichlorohydrin	57	6.793	6.793	0.000	93	40126	50.0	47.5	
76 2-Methylthiophene	97	7.268	7.268	0.000	96	150344	5.00	5.23	
78 3-Methylthiophene	97	7.432	7.432	0.000	96	128519	5.00	4.58	
155 n-Butyl acetate	43	7.937	7.931	0.006	95	53718	5.00	4.76	
146 1-Chlorohexane	55	8.527	8.527	0.000	64	41677	5.00	5.25	
85 3-Chlorobenzotrifluoride	180	8.545	8.545	0.000	56	78573	5.00	5.18	
86 4-Chlorobenzotrifluoride	180	8.606	8.606	0.000	83	76843	5.00	5.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.519	9.519	0.000	95	76623	5.00	5.07	
96 Cyclohexanone	55	9.768	9.762	0.006	64	17815	50.0	49.3	
104 3-Chlorotoluene	126	10.188	10.188	0.000	94	53987	5.00	5.09	
108 Pentachloroethane	167	10.571	10.565	0.006	73	15547	5.00	4.97	
114 Dicyclopentadiene	66	10.924	10.924	0.000	63	194220	5.00	5.03	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	40	179803	5.00	4.98	
150 Benzyl chloride	126	11.082	11.088	-0.006	92	15813	5.00	4.39	
118 1,3,5-Trichlorobenzene	180	12.153	12.153	0.000	96	84307	5.00	5.11	
149 2-Methylnaphthalene	142	13.814	13.814	0.000	88	110464	5.00	4.69	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 5.00	Units: uL
2MTP_WRK_00068	Amount Added: 5.00	Units: uL
3MTP_WRK_00069	Amount Added: 5.00	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6377.D

Injection Date: 10-Jan-2018 06:07:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 10

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

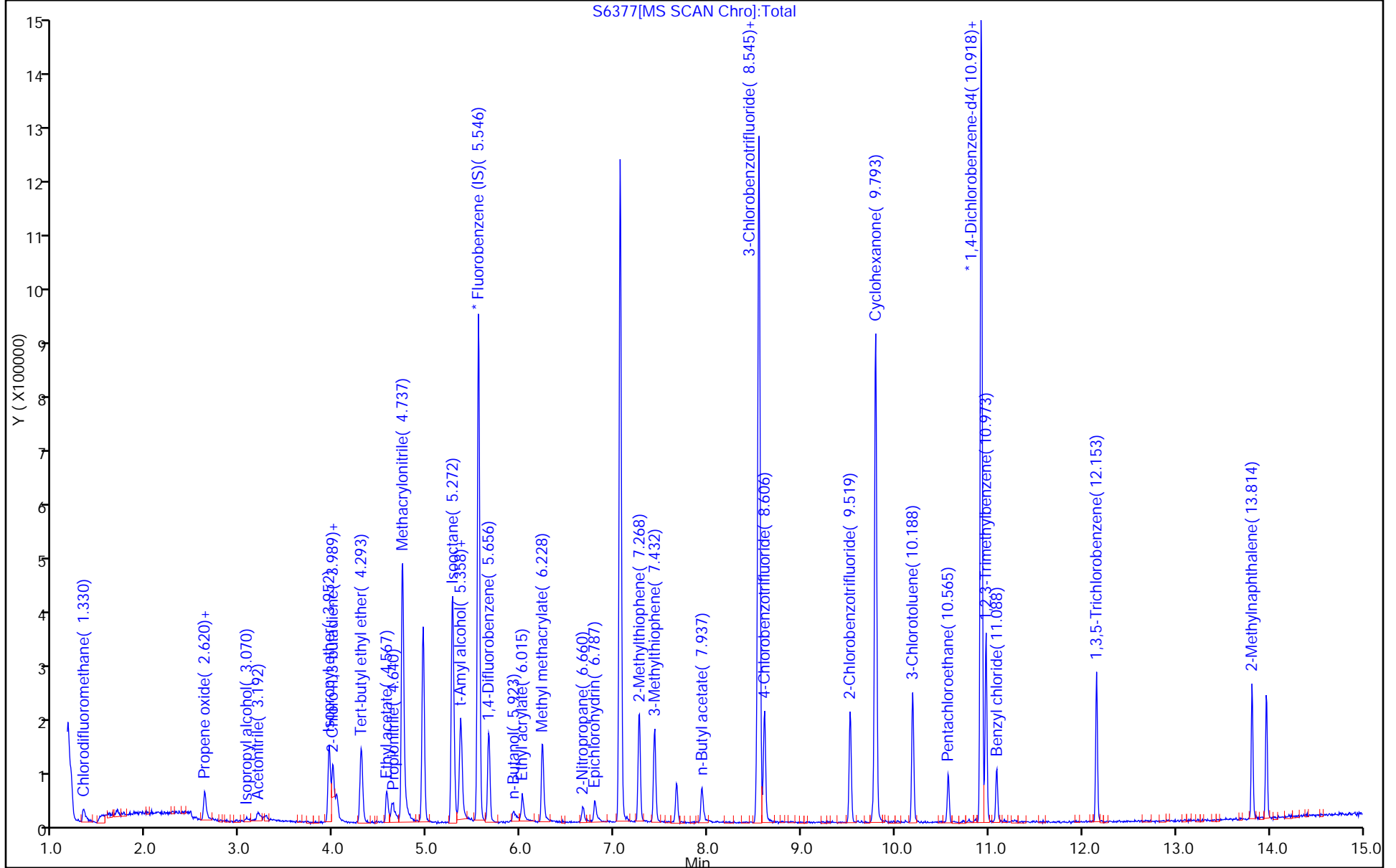
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

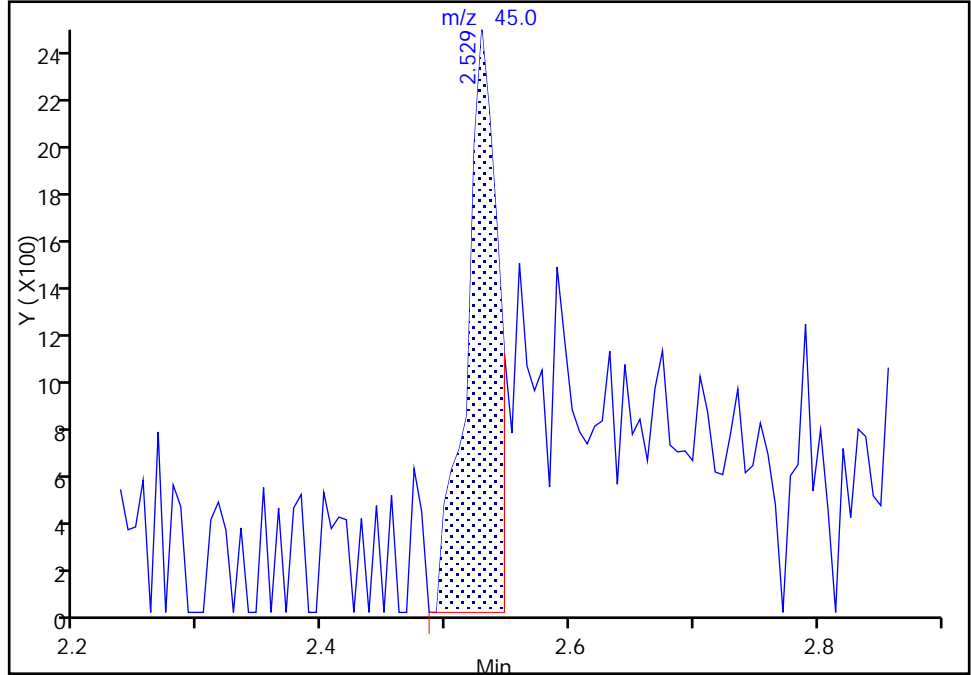
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Injection Date: 10-Jan-2018 06:07:30 Instrument ID: HP5973S
Lims ID: IC 10
Client ID:
Operator ID: AS ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

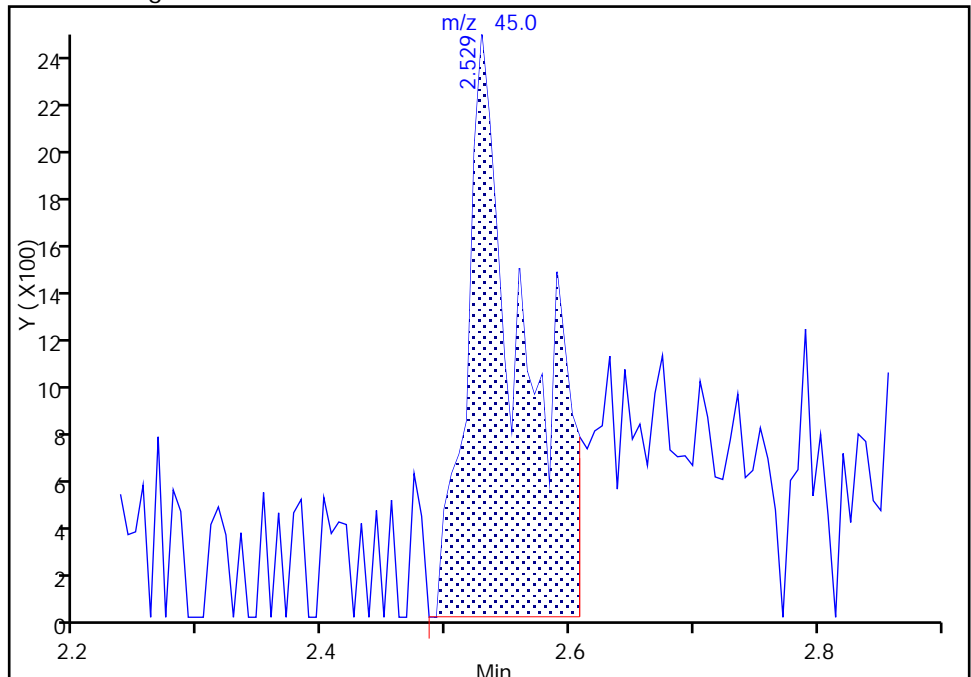
RT: 2.53
Area: 4367
Amount: 114.3600
Amount Units: ug/L

Processing Integration Results



RT: 2.53
Area: 8031
Amount: 205.4044
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:17:11
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6378.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 10-Jan-2018 06:31:30 ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0068466-019
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:08 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:06:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	153016	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	85	326619	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	94	345691	25.0	25.0	
11 Chlorodifluoromethane	51	1.324	1.324	0.000	72	73553	10.0	9.06	
148 Ethanol	45	2.529	2.529	0.000	69	13826	400.0	355.4	M
19 Propene oxide	58	2.620	2.620	0.000	87	87228	NC	NC	
24 Isopropyl alcohol	45	3.076	3.076	0.000	75	21557	100.0	85.1	M
29 Acetonitrile	40	3.186	3.186	0.000	99	43419	100.0	86.9	
36 Isopropyl ether	45	3.952	3.952	0.000	93	204301	10.0	9.15	
40 2-Chloro-1,3-butadiene	53	3.995	3.995	0.000	83	100079	10.0	9.12	
38 1,1-Dimethoxyethane	75	4.031	4.031	0.000	59	50359	50.0	45.1	
41 Tert-butyl ethyl ether	59	4.293	4.293	0.000	96	218676	10.0	9.10	
42 Ethyl acetate	43	4.561	4.561	0.000	97	130353	20.0	17.1	
46 Propionitrile	54	4.628	4.628	0.000	99	98370	100.0	86.4	
47 Methacrylonitrile	41	4.731	4.731	0.000	89	430855	100.0	95.1	
152 Isooctane	57	5.279	5.279	0.000	94	193483	10.0	9.56	
147 t-Amyl alcohol	59	5.345	5.345	0.000	34	77914	100.0	86.7	
56 Tert-amyl methyl ether	73	5.358	5.358	0.000	93	269976	10.0	8.87	
1 1,4-Difluorobenzene	114	5.656	5.656	0.000	92	248827	10.0	9.34	
60 n-Butanol	56	5.923	5.923	0.000	77	44619	250.0	203.1	
142 Ethyl acrylate	55	6.015	6.015	0.000	90	90403	10.0	8.35	
63 Methyl methacrylate	41	6.228	6.228	0.000	83	124276	20.0	17.9	
70 2-Nitropropane	43	6.660	6.660	0.000	98	35648	20.0	16.0	
71 Epichlorohydrin	57	6.793	6.793	0.000	94	69511	100.0	82.7	
76 2-Methylthiophene	97	7.268	7.268	0.000	95	296418	10.0	10.5	
78 3-Methylthiophene	97	7.432	7.432	0.000	98	264194	10.0	9.55	
155 n-Butyl acetate	43	7.931	7.931	0.000	97	93059	10.0	8.29	
146 1-Chlorohexane	55	8.527	8.527	0.000	81	69822	10.0	9.24	
85 3-Chlorobenzotrifluoride	180	8.545	8.545	0.000	63	138305	10.0	9.25	
86 4-Chlorobenzotrifluoride	180	8.606	8.606	0.000	92	129175	10.0	9.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.519	9.519	0.000	96	138107	10.0	9.26	
96 Cyclohexanone	55	9.762	9.762	0.000	83	29728	100.0	85.5	
104 3-Chlorotoluene	126	10.188	10.188	0.000	95	97989	10.0	9.36	
108 Pentachloroethane	167	10.565	10.565	0.000	81	29317	10.0	9.51	
114 Dicyclopentadiene	66	10.924	10.924	0.000	76	346535	10.0	9.10	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	40	327872	10.0	9.21	
150 Benzyl chloride	126	11.088	11.088	0.000	95	29584	10.0	8.18	
118 1,3,5-Trichlorobenzene	180	12.153	12.153	0.000	97	152045	10.0	9.34	
149 2-Methylnaphthalene	142	13.814	13.814	0.000	90	207845	10.0	8.96	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 5.00	Units: uL
2MTP_WRK_00068	Amount Added: 5.00	Units: uL
3MTP_WRK_00069	Amount Added: 5.00	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6378.D

Injection Date: 10-Jan-2018 06:31:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 11

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

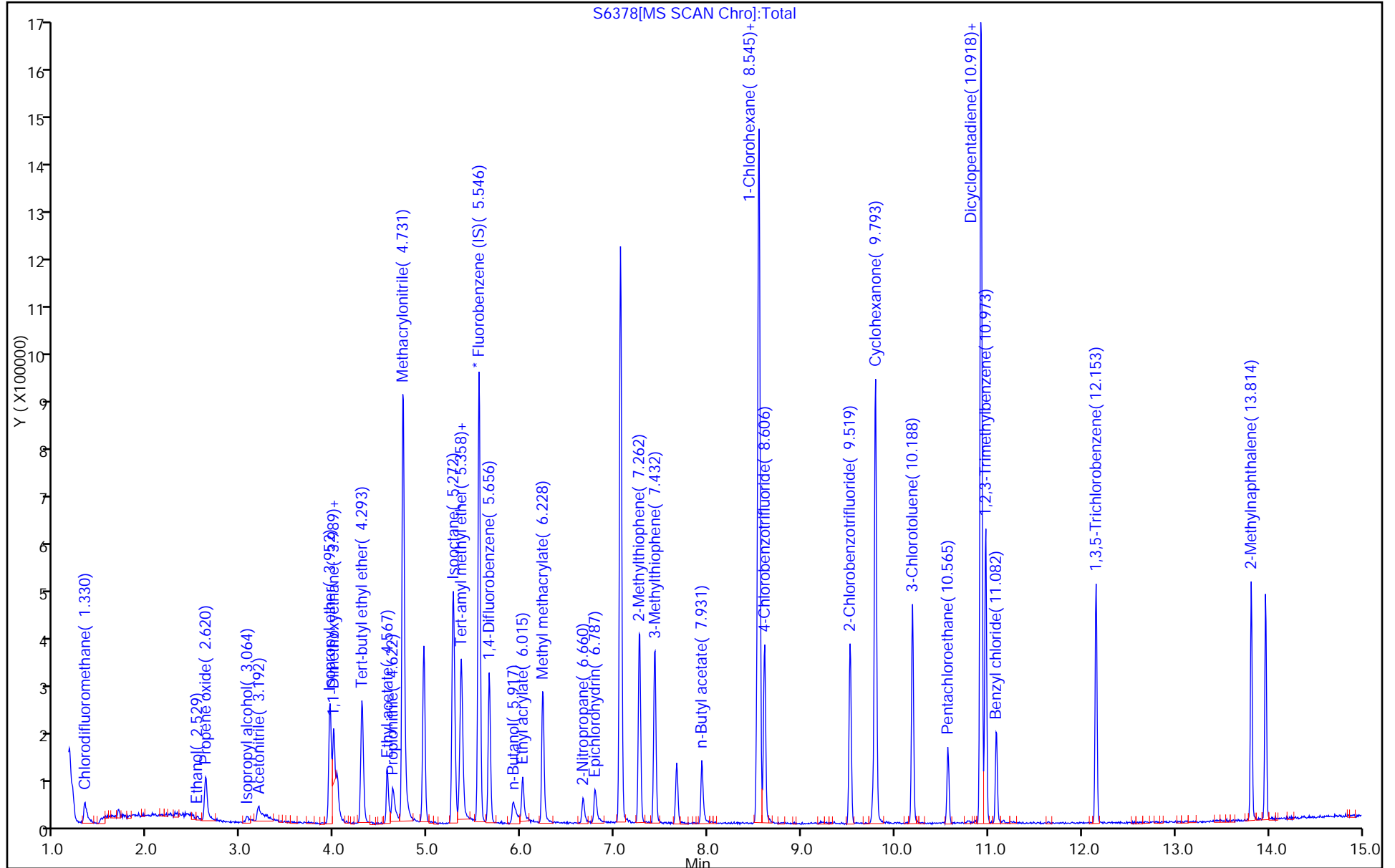
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

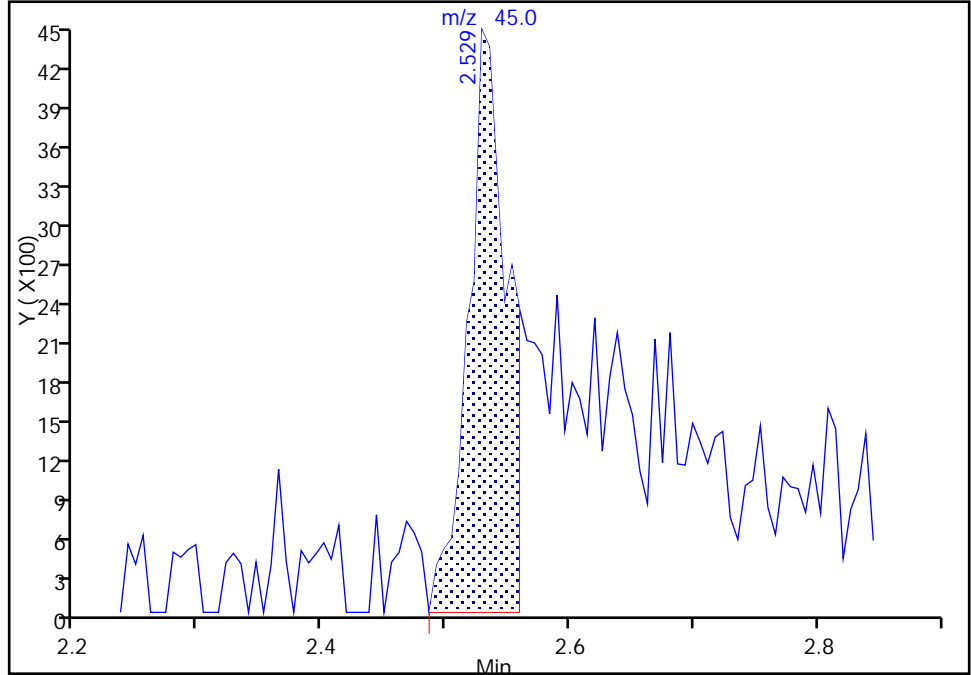
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6378.D
Injection Date: 10-Jan-2018 06:31:30 Instrument ID: HP5973S
Lims ID: IC 11
Client ID:
Operator ID: AS ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

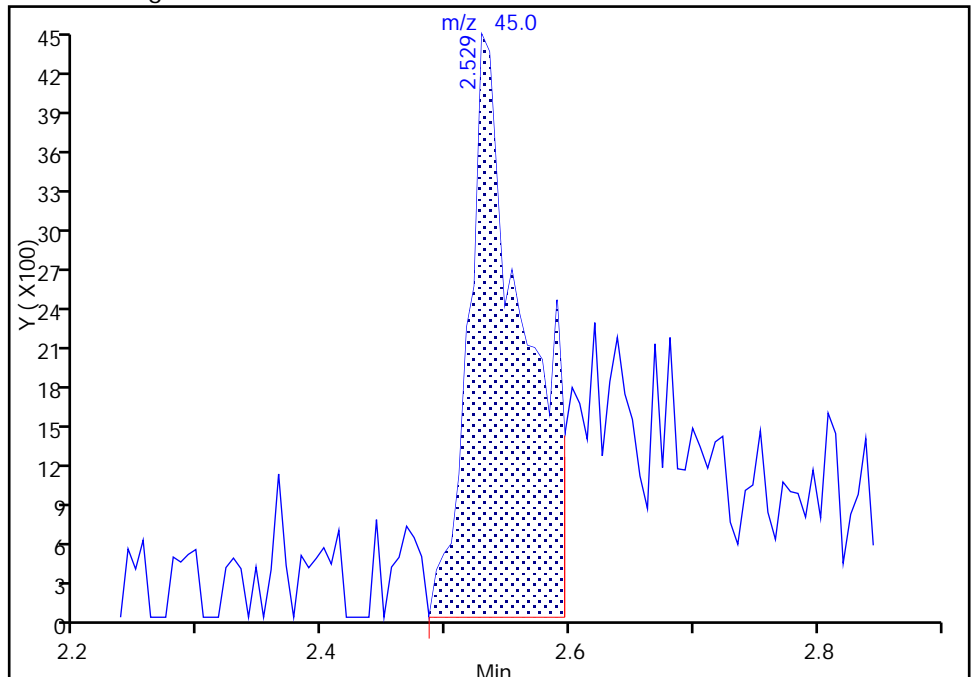
RT: 2.53
Area: 9678
Amount: 270.4112
Amount Units: ug/L

Processing Integration Results



RT: 2.53
Area: 13826
Amount: 355.3924
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 10-Jan-2018 18:09:45
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

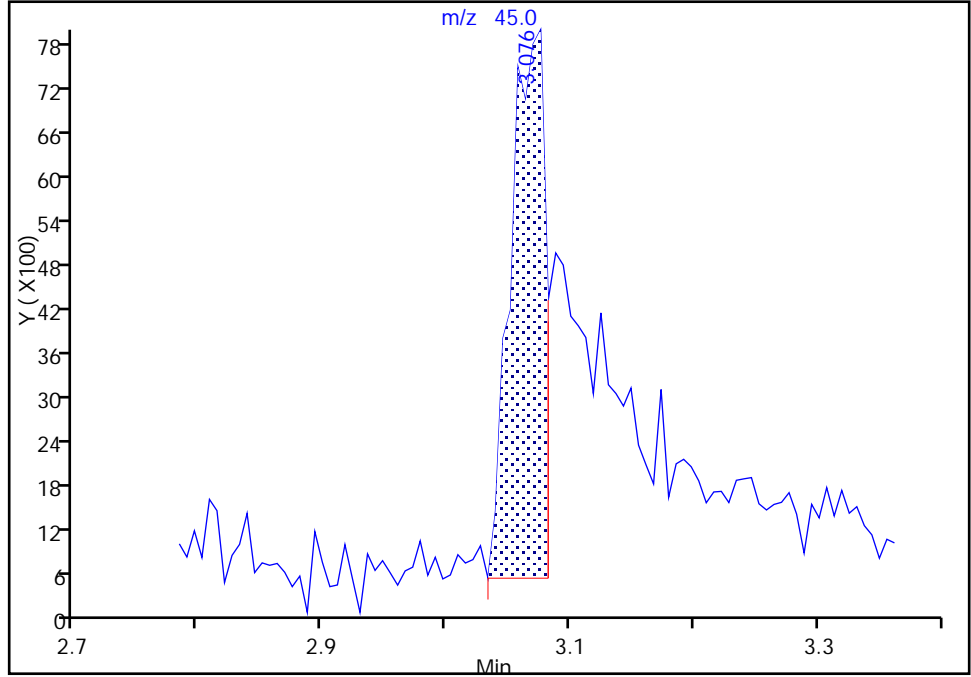
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6378.D
Injection Date: 10-Jan-2018 06:31:30 Instrument ID: HP5973S
Lims ID: IC 11
Client ID:
Operator ID: AS ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

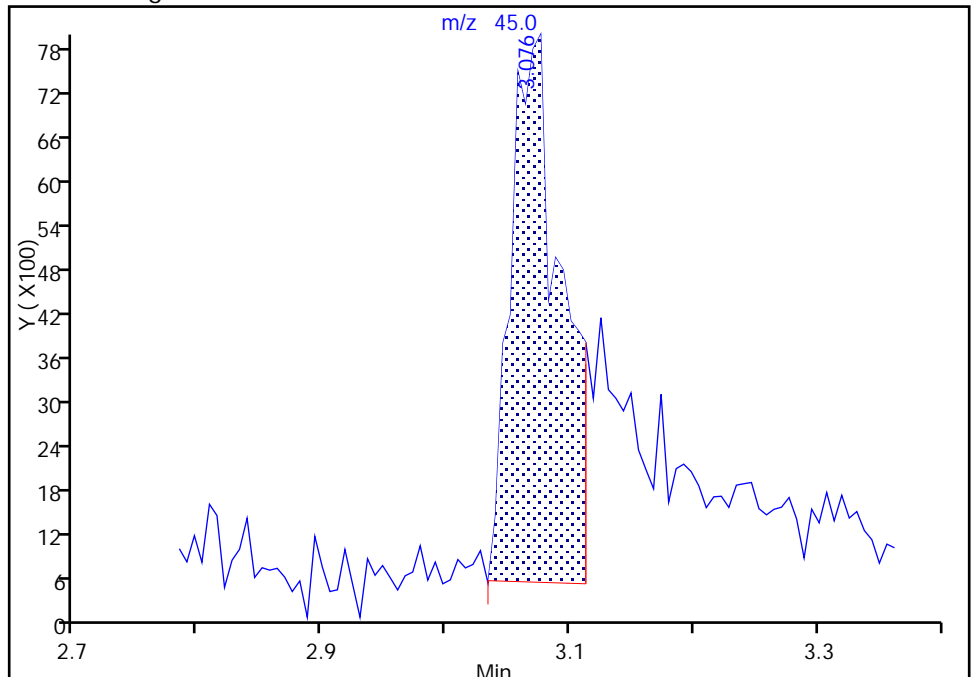
RT: 3.08
Area: 14638
Amount: 60.385961
Amount Units: ug/L

Processing Integration Results



RT: 3.08
Area: 21557
Amount: 85.112724
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:20:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6379.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 10-Jan-2018 06:54:30 ALS Bottle#: 20 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0068466-020
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:10 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:13:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	155555	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	85	337117	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	82	356541	25.0	25.0	
11 Chlorodifluoromethane	51	1.330	1.330	0.000	99	214293	25.0	26.0	
148 Ethanol	45	2.535	2.535	0.000	95	36409	1000.0	920.6	M
19 Propene oxide	58	2.620	2.620	0.000	95	247125	NC	NC	
24 Isopropyl alcohol	45	3.058	3.058	0.000	98	64033	250.0	248.7	
29 Acetonitrile	40	3.186	3.186	0.000	97	136584	250.0	269.0	
36 Isopropyl ether	45	3.952	3.952	0.000	92	578813	25.0	25.5	
40 2-Chloro-1,3-butadiene	53	3.989	3.989	0.000	83	286460	25.0	25.7	
38 1,1-Dimethoxyethane	75	4.025	4.025	0.000	85	131553	125.0	116.0	
41 Tert-butyl ethyl ether	59	4.293	4.293	0.000	96	609918	25.0	25.0	
42 Ethyl acetate	43	4.561	4.561	0.000	99	402601	50.0	52.1	
46 Propionitrile	54	4.622	4.622	0.000	97	306297	250.0	264.7	
47 Methacrylonitrile	41	4.731	4.731	0.000	89	1236280	250.0	268.5	
152 Isooctane	57	5.279	5.279	0.000	96	495725	25.0	24.1	
147 t-Amyl alcohol	59	5.339	5.339	0.000	38	231509	250.0	246.9	
56 Tert-amyl methyl ether	73	5.358	5.358	0.000	80	807466	25.0	26.1	
1 1,4-Difluorobenzene	114	5.656	5.656	0.000	93	689796	25.0	25.5	
60 n-Butanol	56	5.905	5.905	0.000	85	146923	625.0	618.2	
142 Ethyl acrylate	55	6.015	6.015	0.000	90	283435	25.0	25.7	
63 Methyl methacrylate	41	6.228	6.228	0.000	85	369528	50.0	52.4	
70 2-Nitropropane	43	6.660	6.660	0.000	95	111703	50.0	48.5	
71 Epichlorohydrin	57	6.787	6.787	0.000	97	221774	250.0	259.6	
76 2-Methylthiophene	97	7.262	7.262	0.000	96	687277	25.0	23.5	
78 3-Methylthiophene	97	7.426	7.426	0.000	98	722007	25.0	25.3	
155 n-Butyl acetate	43	7.931	7.931	0.000	98	299763	25.0	26.3	
146 1-Chlorohexane	55	8.527	8.527	0.000	92	185787	25.0	24.9	
85 3-Chlorobenzotrifluoride	180	8.545	8.545	0.000	82	383260	25.0	24.9	
86 4-Chlorobenzotrifluoride	180	8.606	8.606	0.000	94	366881	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.519	9.519	0.000	98	393842	25.0	25.6	
96 Cyclohexanone	55	9.768	9.768	0.000	90	88443	250.0	252.4	
104 3-Chlorotoluene	126	10.188	10.188	0.000	96	275430	25.0	25.5	
108 Pentachloroethane	167	10.565	10.565	0.000	88	88377	25.0	27.8	
114 Dicyclopentadiene	66	10.924	10.924	0.000	95	992535	25.0	25.3	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	50	941689	25.0	25.6	
150 Benzyl chloride	126	11.082	11.082	0.000	98	99441	25.0	26.6	
118 1,3,5-Trichlorobenzene	180	12.153	12.153	0.000	94	434419	25.0	25.9	
149 2-Methylnaphthalene	142	13.814	13.814	0.000	91	647757	25.0	27.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 12.50	Units: uL
2MTP_WRK_00068	Amount Added: 12.50	Units: uL
3MTP_WRK_00069	Amount Added: 12.50	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6379.D

Injection Date: 10-Jan-2018 06:54:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 12

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

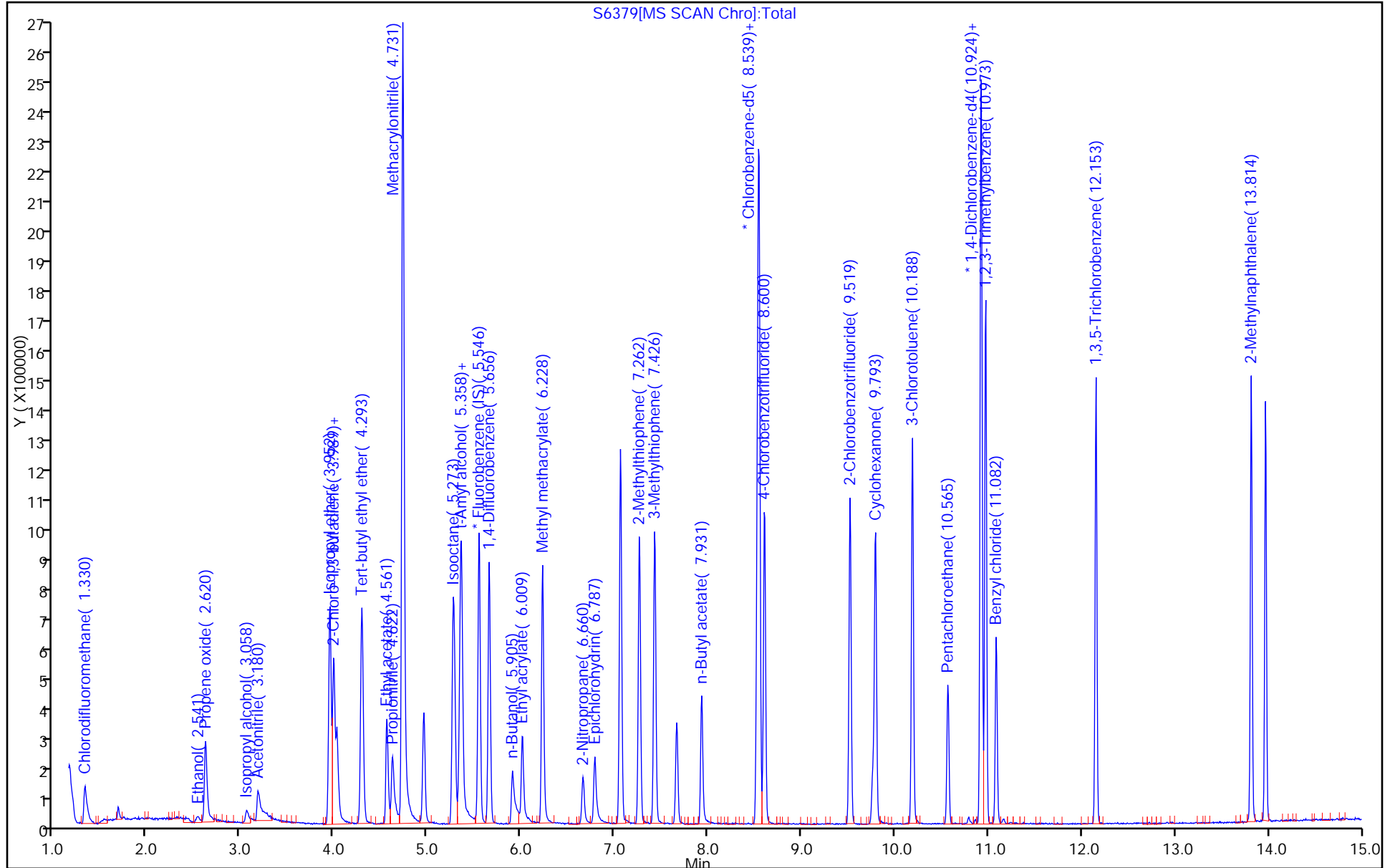
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

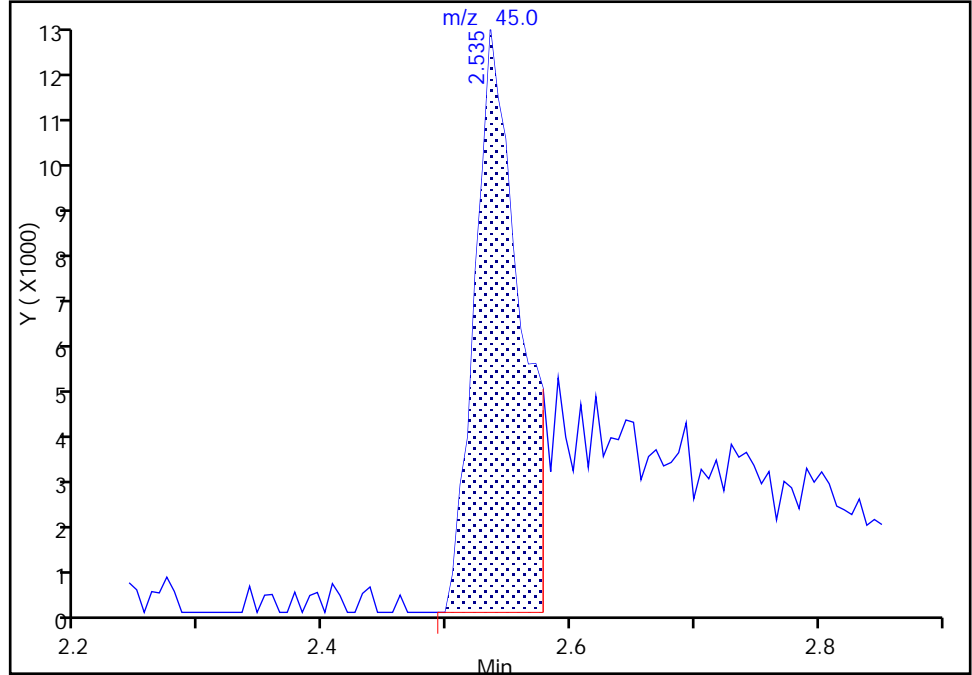
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6379.D
Injection Date: 10-Jan-2018 06:54:30 Instrument ID: HP5973S
Lims ID: IC 12
Client ID:
Operator ID: AS ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

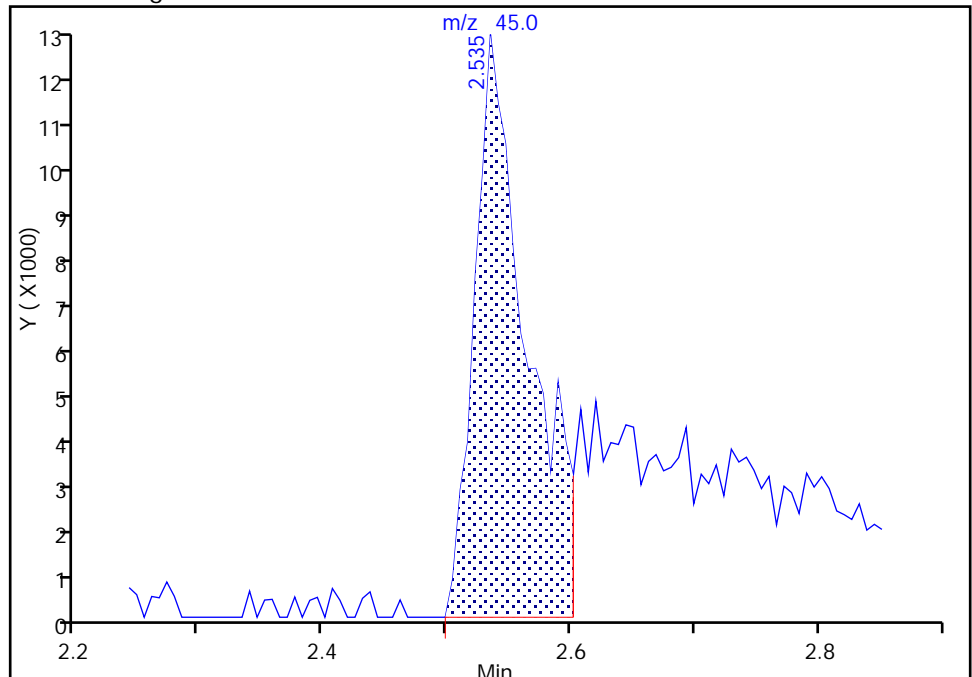
RT: 2.53
Area: 31122
Amount: 821.2164
Amount Units: ug/L

Processing Integration Results



RT: 2.53
Area: 36409
Amount: 920.6047
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 10-Jan-2018 18:09:11
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6380.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 10-Jan-2018 07:17:30 ALS Bottle#: 21 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0068466-021
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:12 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:14:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	157437	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.545	8.545	0.000	76	339581	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	62	364021	25.0	25.0	
11 Chlorodifluoromethane	51	1.324	1.330	-0.006	98	417181	50.0	49.9	
148 Ethanol	45	2.535	2.535	0.000	95	73969	2000.0	1848.0	M
19 Propene oxide	58	2.620	2.620	0.000	96	500195	NC	NC	
24 Isopropyl alcohol	45	3.058	3.058	0.000	99	152185	500.0	584.0	M
29 Acetonitrile	40	3.180	3.186	-0.006	98	258822	500.0	503.7	M
36 Isopropyl ether	45	3.952	3.952	0.000	92	1150288	50.0	50.1	
40 2-Chloro-1,3-butadiene	53	3.989	3.989	0.000	83	583769	50.0	51.7	
38 1,1-Dimethoxyethane	75	4.025	4.025	0.000	59	338257	250.0	294.7	
41 Tert-butyl ethyl ether	59	4.293	4.293	0.000	96	1253842	50.0	50.7	
42 Ethyl acetate	43	4.555	4.561	-0.006	98	799578	100.0	102.2	
46 Propionitrile	54	4.622	4.622	0.000	97	615754	500.0	525.7	
47 Methacrylonitrile	41	4.731	4.731	0.000	89	2447385	500.0	525.2	
152 Isooctane	57	5.279	5.279	0.000	97	933684	50.0	44.8	
147 t-Amyl alcohol	59	5.339	5.339	0.000	23	480880	500.0	503.3	
56 Tert-amyl methyl ether	73	5.358	5.358	0.000	80	1591347	50.0	50.8	
1 1,4-Difluorobenzene	114	5.656	5.656	0.000	93	1392226	50.0	50.8	
60 n-Butanol	56	5.905	5.905	0.000	87	320431	1250.0	1311.7	
142 Ethyl acrylate	55	6.009	6.015	-0.006	91	569749	50.0	51.1	
63 Methyl methacrylate	41	6.228	6.228	0.000	83	741394	100.0	104.0	
70 2-Nitropropane	43	6.660	6.660	0.000	98	239957	100.0	102.0	
71 Epichlorohydrin	57	6.781	6.787	-0.006	99	472503	500.0	546.4	
76 2-Methylthiophene	97	7.262	7.262	0.000	96	1486091	50.0	49.8	
78 3-Methylthiophene	97	7.426	7.426	0.000	98	1538067	50.0	52.8	
155 n-Butyl acetate	43	7.925	7.931	-0.006	98	635130	50.0	55.0	
146 1-Chlorohexane	55	8.527	8.527	0.000	91	371056	50.0	50.1	
85 3-Chlorobenzotrifluoride	180	8.539	8.545	-0.006	92	771383	50.0	49.0	
86 4-Chlorobenzotrifluoride	180	8.600	8.606	-0.006	95	749622	50.0	49.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.519	9.519	0.000	98	803760	50.0	51.2	
96 Cyclohexanone	55	9.762	9.768	-0.006	91	175973	500.0	494.6	
104 3-Chlorotoluene	126	10.188	10.188	0.000	96	564725	50.0	51.2	
108 Pentachloroethane	167	10.565	10.565	0.000	88	135321	50.0	41.7	
114 Dicyclopentadiene	66	10.924	10.924	0.000	96	2009974	50.0	50.1	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	48	1890127	50.0	50.4	
150 Benzyl chloride	126	11.082	11.082	0.000	98	209355	50.0	55.7	
118 1,3,5-Trichlorobenzene	180	12.153	12.153	0.000	95	877016	50.0	51.2	
149 2-Methylnaphthalene	142	13.814	13.814	0.000	90	1368827	50.0	56.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 25.00	Units: uL
2MTP_WRK_00068	Amount Added: 25.00	Units: uL
3MTP_WRK_00069	Amount Added: 25.00	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6380.D

Injection Date: 10-Jan-2018 07:17:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 13

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

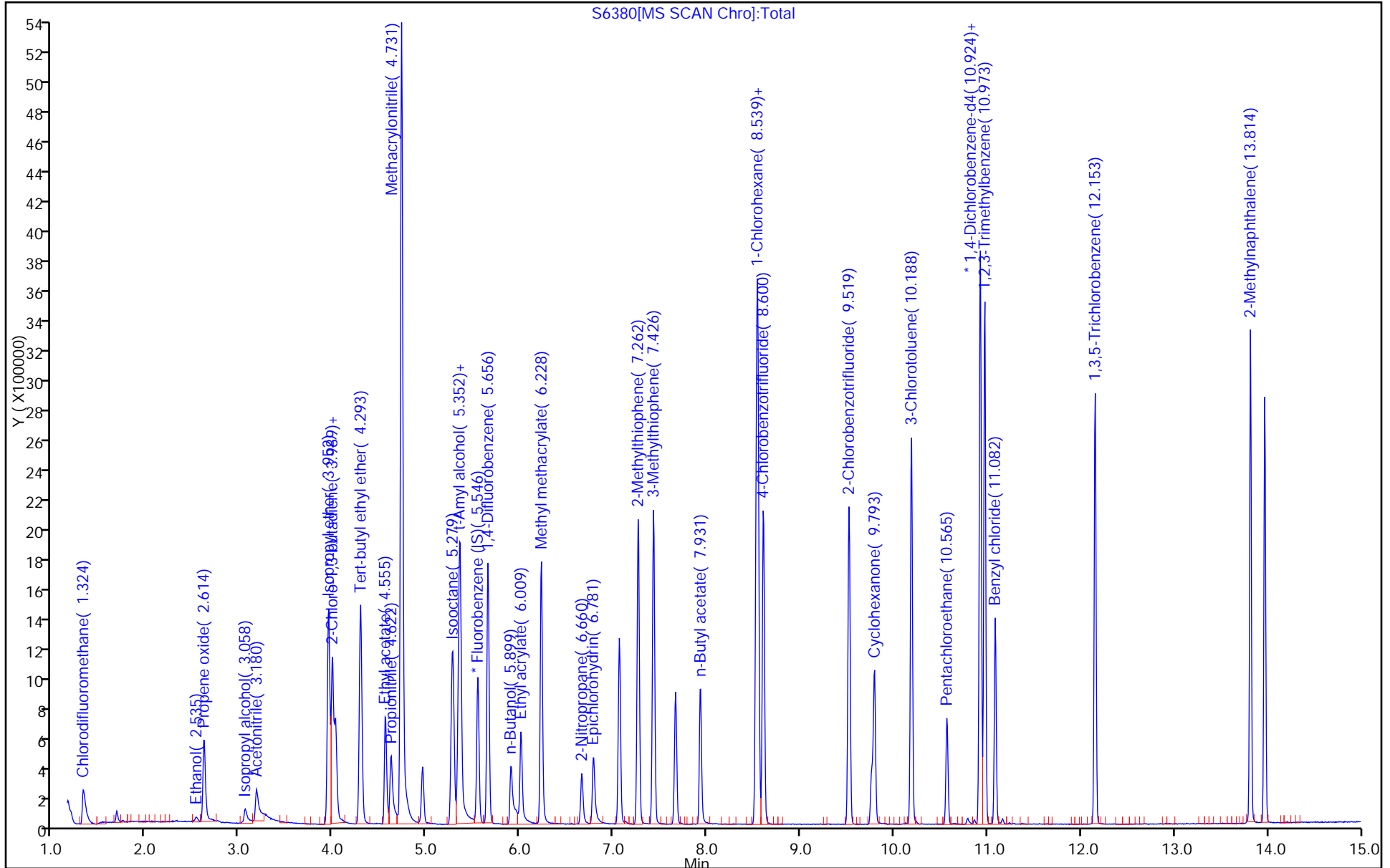
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

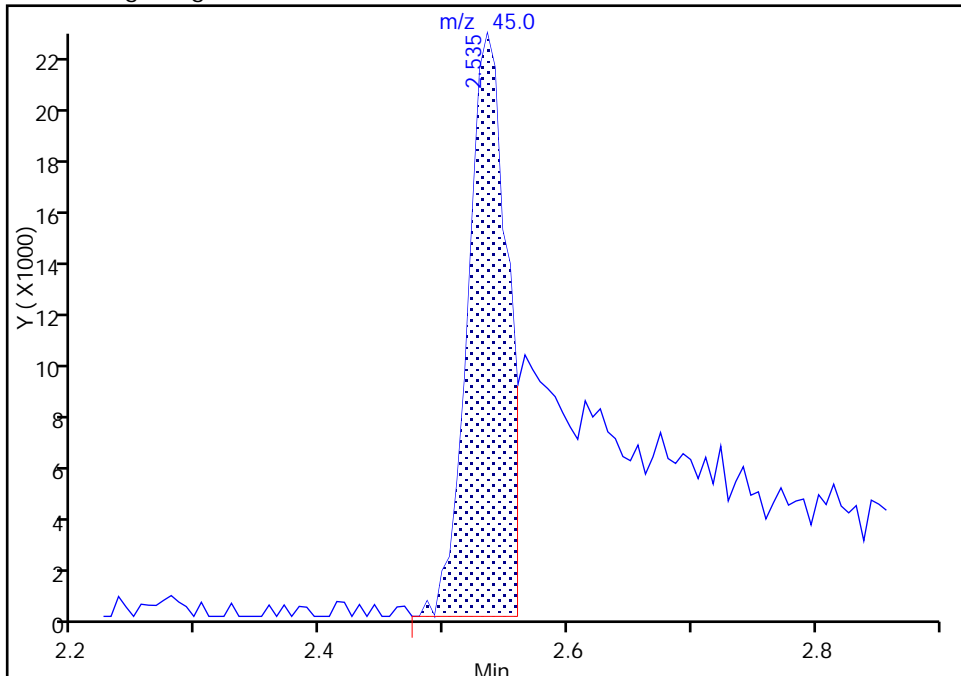
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6380.D
Injection Date: 10-Jan-2018 07:17:30 Instrument ID: HP5973S
Lims ID: IC 13
Client ID:
Operator ID: AS ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

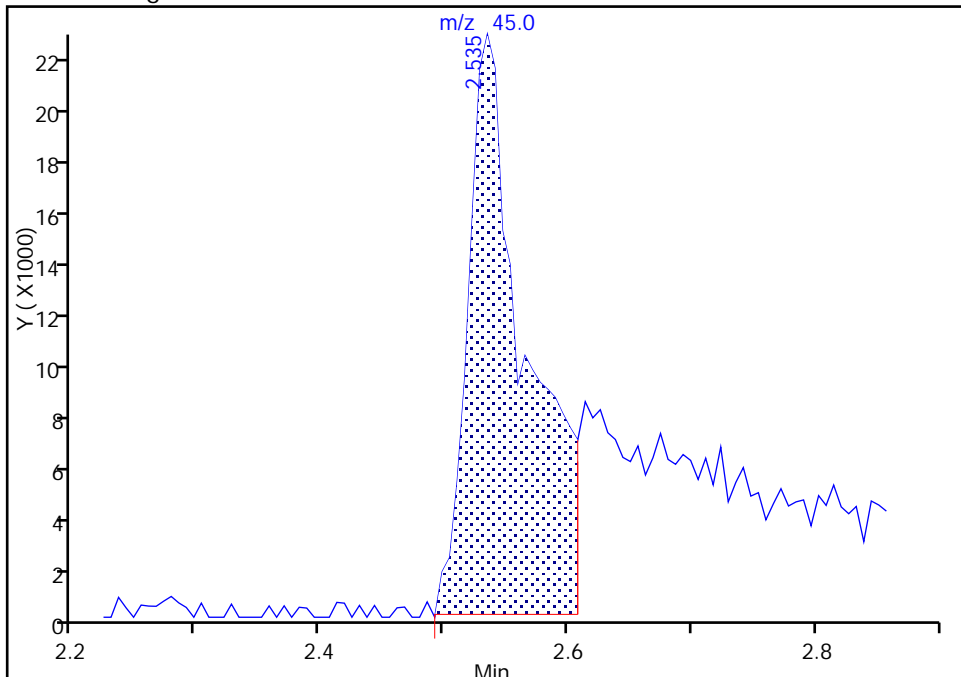
RT: 2.53
Area: 50115
Amount: 1199.6957
Amount Units: ug/L

Processing Integration Results



RT: 2.53
Area: 73969
Amount: 1847.9549
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:17:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

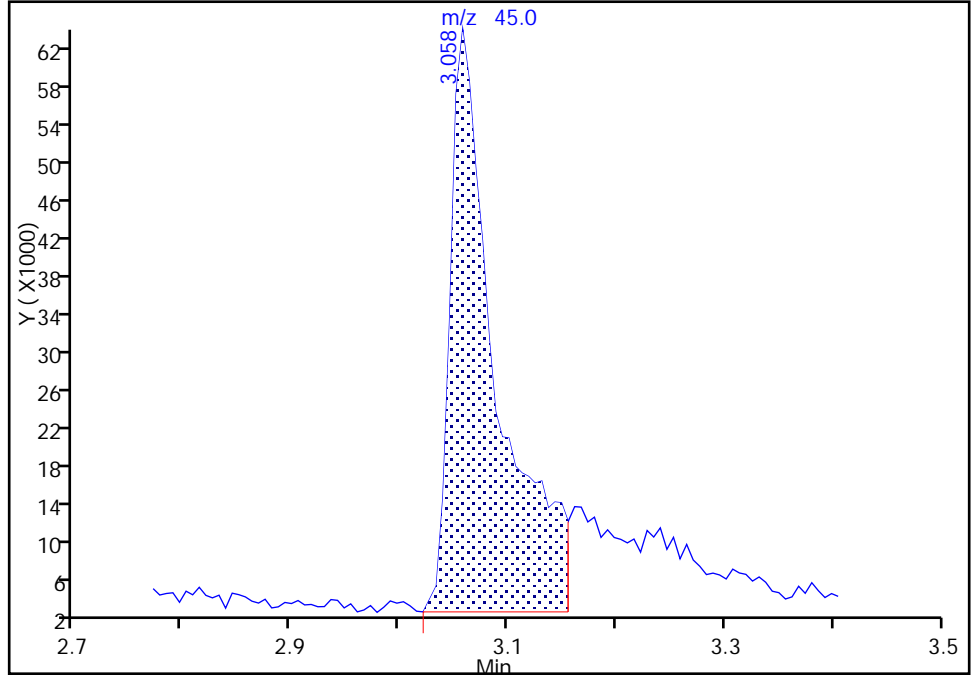
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6380.D
Injection Date: 10-Jan-2018 07:17:30 Instrument ID: HP5973S
Lims ID: IC 13
Client ID:
Operator ID: AS ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

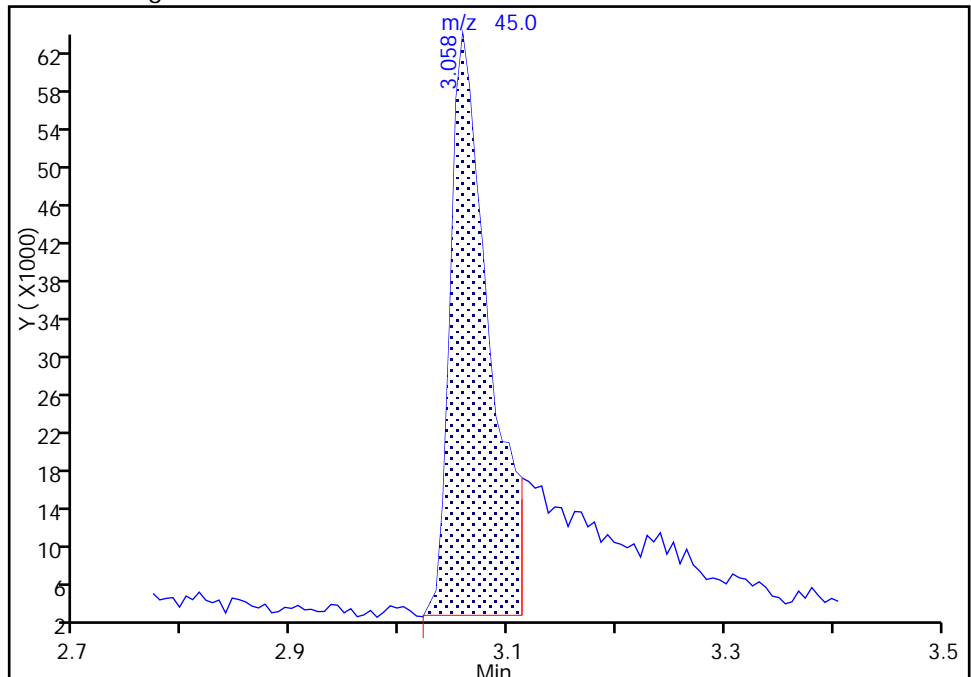
RT: 3.06
Area: 184021
Amount: 708.9157
Amount Units: ug/L

Processing Integration Results



RT: 3.06
Area: 152185
Amount: 583.9936
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:21:26
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

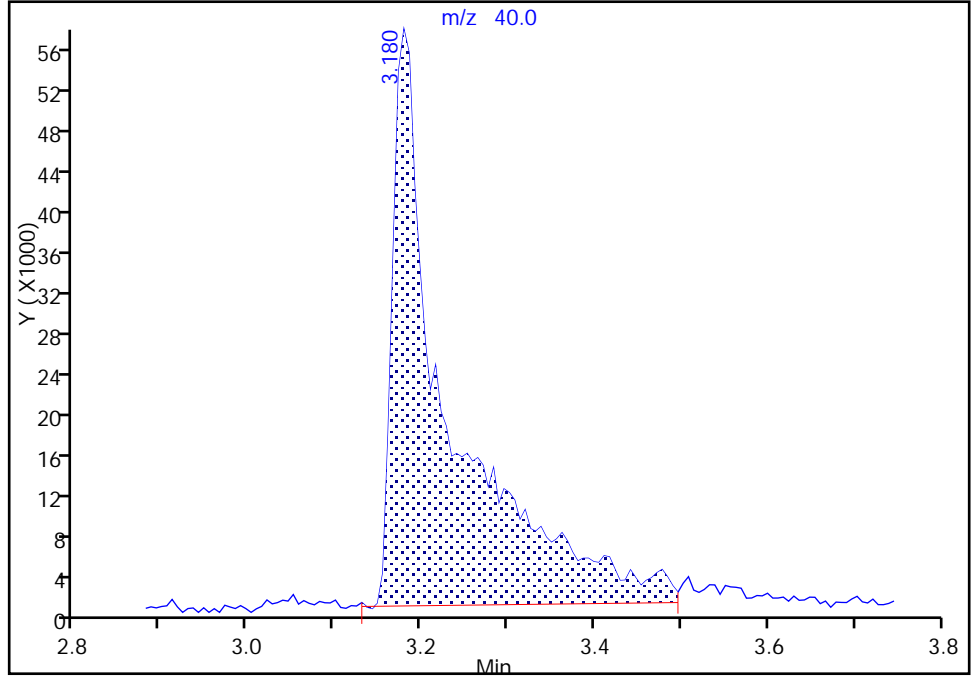
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6380.D
Injection Date: 10-Jan-2018 07:17:30 Instrument ID: HP5973S
Lims ID: IC 13
Client ID:
Operator ID: AS ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

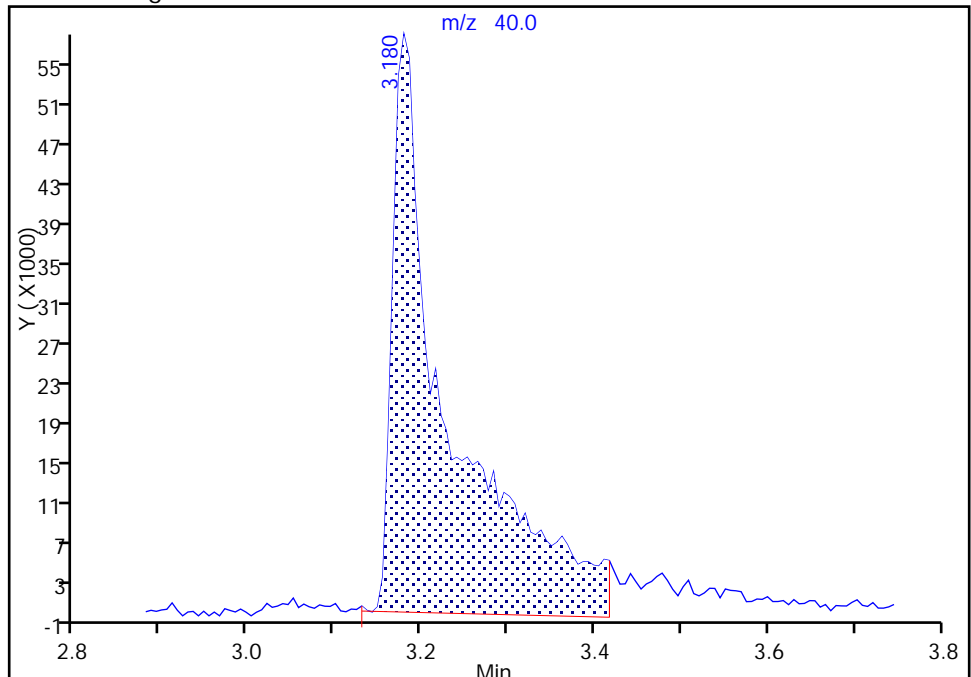
RT: 3.18
Area: 260337
Amount: 443.5513
Amount Units: ug/L

Processing Integration Results



RT: 3.18
Area: 258822
Amount: 503.7051
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:23:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Lims ID: IC 14
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 10-Jan-2018 07:40:30 ALS Bottle#: 22 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 14
 Misc. Info.: 480-0068466-022
 Operator ID: AS Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub60
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:14 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: farrellr

Date: 10-Jan-2018 10:14:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	99	161545	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.546	8.545	0.001	57	344532	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.918	10.918	0.000	54	360516	25.0	25.0	
11 Chlorodifluoromethane	51	1.324	1.330	-0.006	98	861561	100.0	100.5	
148 Ethanol	45	2.535	2.535	0.000	100	197128	4000.0	4799.6	M
19 Propene oxide	58	2.614	2.620	-0.006	96	1031777	NC	NC	
24 Isopropyl alcohol	45	3.052	3.058	-0.006	98	410422	1000.0	1534.9	M
29 Acetonitrile	40	3.174	3.186	-0.012	99	534675	1000.0	1014.1	M
36 Isopropyl ether	45	3.946	3.952	-0.006	91	2315895	100.0	98.2	
40 2-Chloro-1,3-butadiene	53	3.989	3.989	0.000	90	1192912	100.0	103.0	
38 1,1-Dimethoxyethane	75	4.019	4.025	-0.006	59	732898	500.0	622.3	
41 Tert-butyl ethyl ether	59	4.293	4.293	0.000	96	2495945	100.0	98.4	
42 Ethyl acetate	43	4.555	4.561	-0.006	98	1640621	200.0	204.3	
46 Propionitrile	54	4.616	4.622	-0.006	98	1293033	1000.0	1075.9	
47 Methacrylonitrile	41	4.731	4.731	0.000	87	4749239	1000.0	993.3	
152 Isooctane	57	5.279	5.279	0.000	96	1877318	100.0	87.9	
147 t-Amyl alcohol	59	5.340	5.339	0.001	41	995822	1000.0	1012.3	
56 Tert-amyl methyl ether	73	5.358	5.358	0.000	80	3258231	100.0	101.4	
1 1,4-Difluorobenzene	114	5.656	5.656	0.000	93	2800855	100.0	99.6	
60 n-Butanol	56	5.899	5.905	-0.006	85	744833	2500.0	2949.1	
142 Ethyl acrylate	55	6.009	6.015	-0.006	93	1171107	100.0	102.4	
63 Methyl methacrylate	41	6.222	6.228	-0.006	86	1478234	200.0	202.0	
70 2-Nitropropane	43	6.660	6.660	0.000	100	524979	200.0	225.3	
71 Epichlorohydrin	57	6.781	6.787	-0.006	99	978051	1000.0	1102.3	
76 2-Methylthiophene	97	7.262	7.262	0.000	96	2917744	100.0	98.7	
78 3-Methylthiophene	97	7.426	7.426	0.000	97	2995882	100.0	103.8	
155 n-Butyl acetate	43	7.925	7.931	-0.006	97	1299503	100.0	109.7	
146 1-Chlorohexane	55	8.527	8.527	0.000	91	748187	100.0	100.3	
85 3-Chlorobenzotrifluoride	180	8.540	8.545	-0.005	93	1561623	100.0	100.2	
86 4-Chlorobenzotrifluoride	180	8.606	8.606	0.000	94	1498693	100.0	100.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
93 2-Chlorobenzotrifluoride	180	9.519	9.519	0.000	98	1606988	100.0	103.3	
96 Cyclohexanone	55	9.762	9.768	-0.006	89	357152	1000.0	1016.8	
104 3-Chlorotoluene	126	10.188	10.188	0.000	95	1139786	100.0	104.4	
108 Pentachloroethane	167	10.565	10.565	0.000	89	319820	100.0	99.5	
114 Dicyclopentadiene	66	10.924	10.924	0.000	96	3921630	100.0	98.7	
112 1,2,3-Trimethylbenzene	105	10.973	10.973	0.000	57	3664169	100.0	98.7	
150 Benzyl chloride	126	11.082	11.082	0.000	98	439787	100.0	115.2	
118 1,3,5-Trichlorobenzene	180	12.153	12.153	0.000	97	1761289	100.0	103.7	
149 2-Methylnaphthalene	142	13.814	13.814	0.000	91	2882371	100.0	119.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00067	Amount Added: 50.00	Units: uL
2MTP_WRK_00068	Amount Added: 50.00	Units: uL
3MTP_WRK_00069	Amount Added: 50.00	Units: uL
S_8260_IS_00277	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D

Injection Date: 10-Jan-2018 07:40:30

Instrument ID: HP5973S

Operator ID: AS

Lims ID: IC 14

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

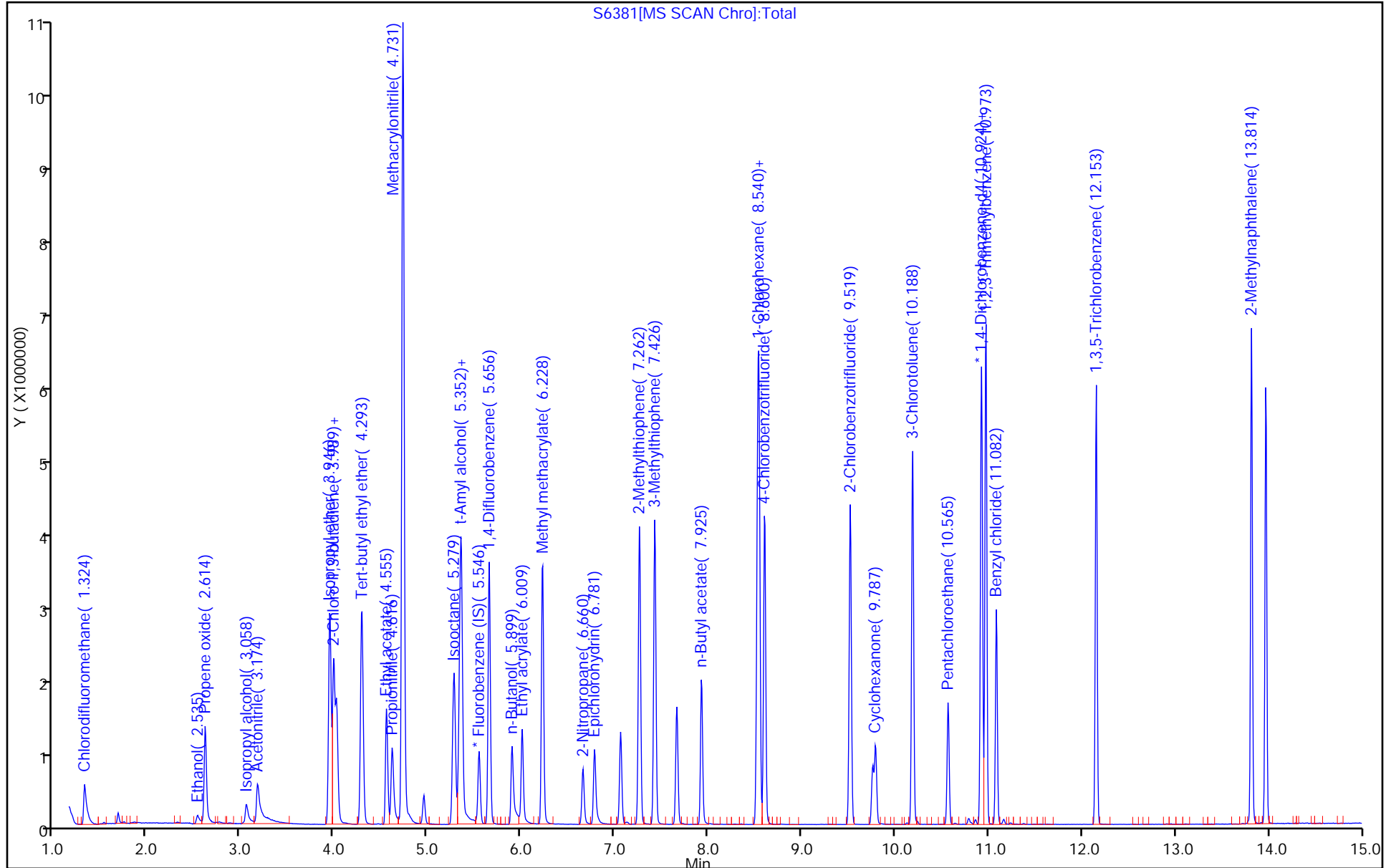
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

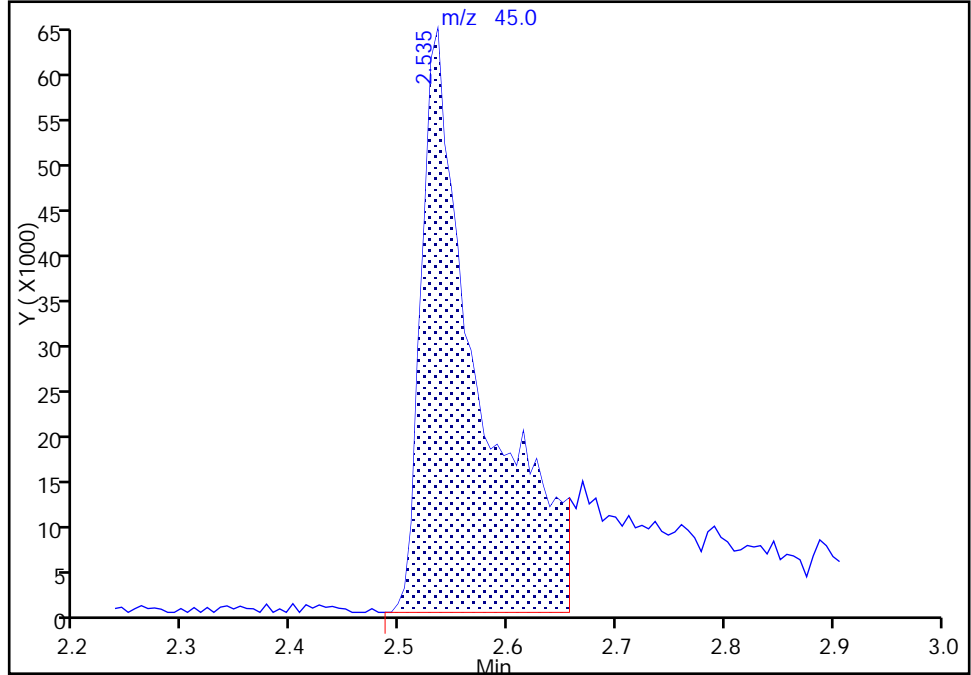
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Injection Date: 10-Jan-2018 07:40:30 Instrument ID: HP5973S
Lims ID: IC 14
Client ID:
Operator ID: AS ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

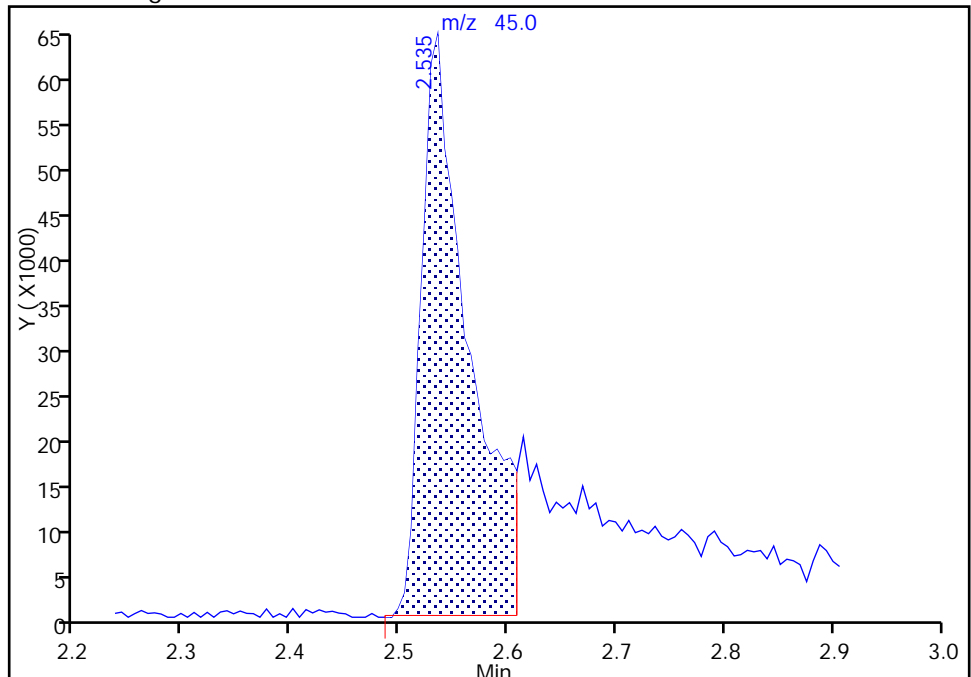
RT: 2.54
Area: 240740
Amount: 5396.3792
Amount Units: ug/L

Processing Integration Results



RT: 2.54
Area: 197128
Amount: 4799.5799
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:19:15
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

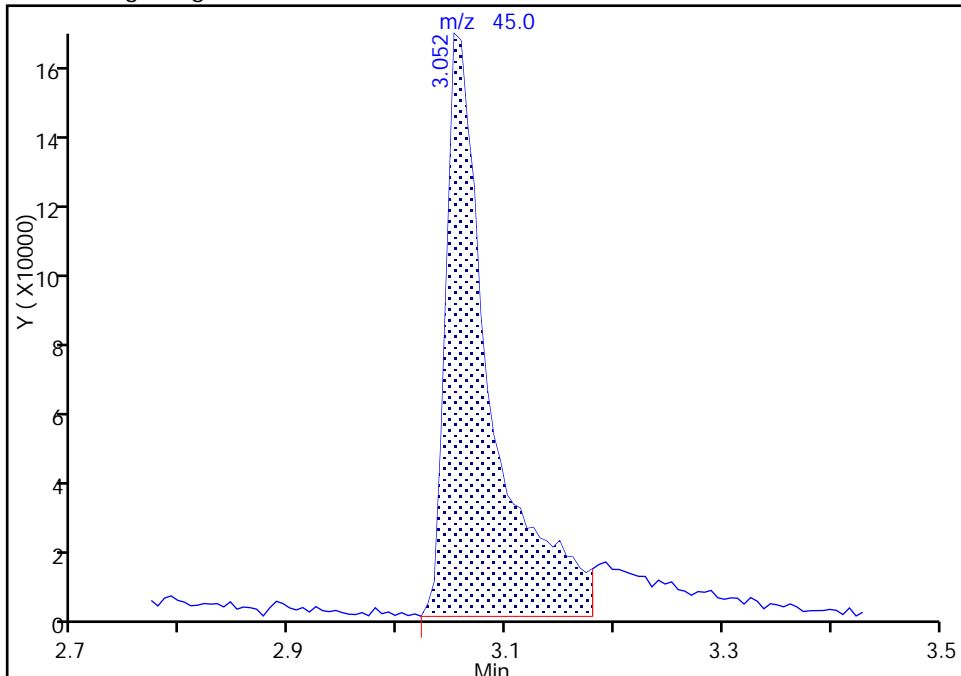
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
Injection Date: 10-Jan-2018 07:40:30 Instrument ID: HP5973S
Lims ID: IC 14
Client ID:
Operator ID: AS ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

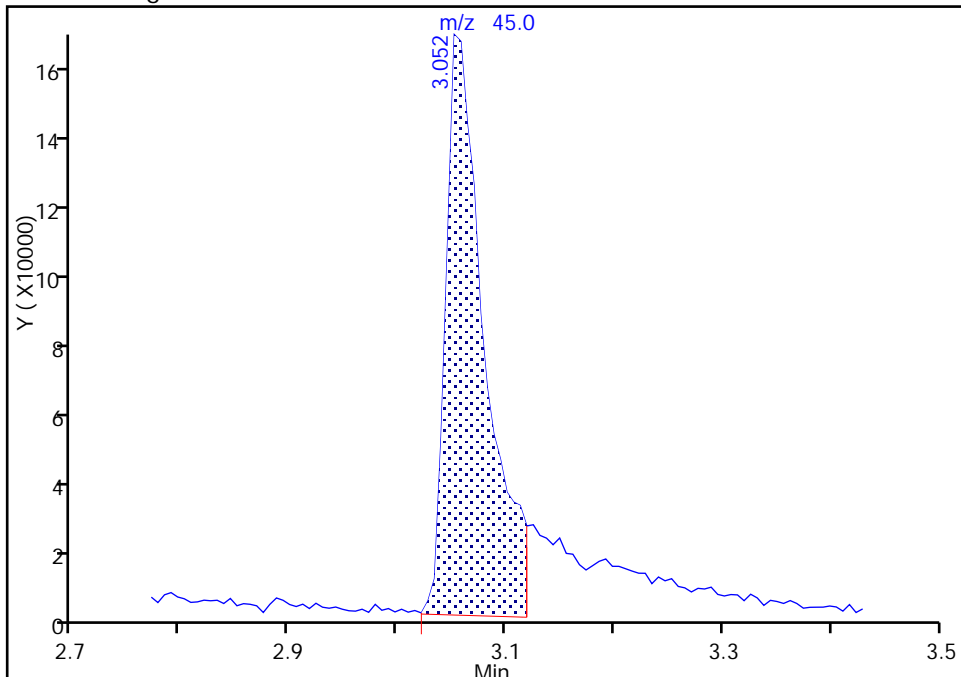
RT: 3.05
Area: 471586
Amount: 1834.8163
Amount Units: ug/L

Processing Integration Results



RT: 3.05
Area: 410422
Amount: 1534.9001
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:21:55
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

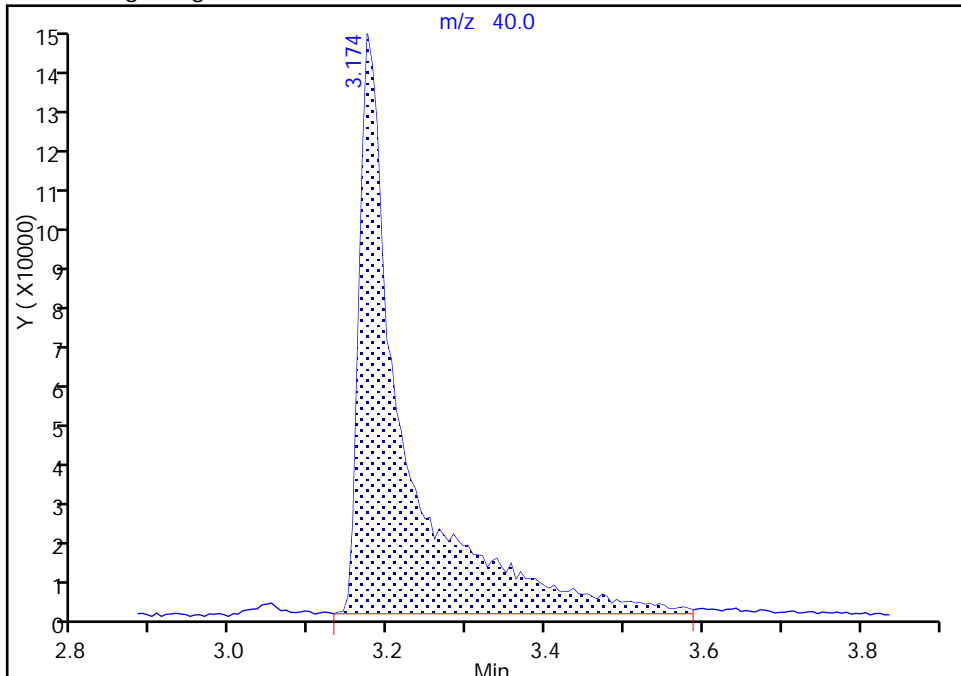
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
Injection Date: 10-Jan-2018 07:40:30 Instrument ID: HP5973S
Lims ID: IC 14
Client ID:
Operator ID: AS ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

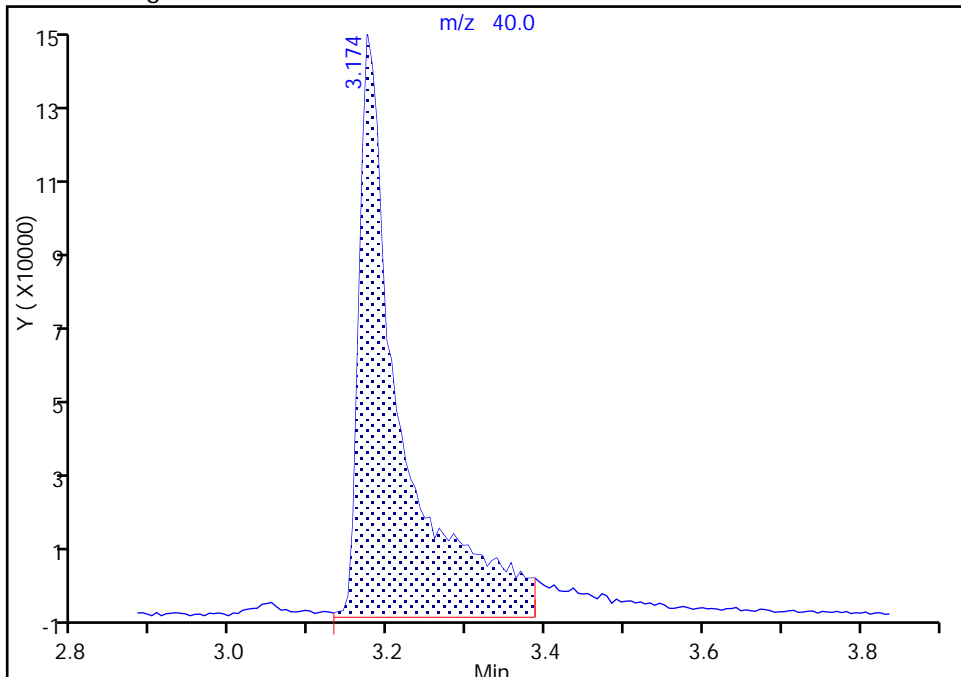
RT: 3.17
Area: 563040
Amount: 935.5799
Amount Units: ug/L

Processing Integration Results



RT: 3.17
Area: 534675
Amount: 1014.0943
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 10-Jan-2018 10:23:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401359/3 Calibration Date: 02/25/2018 09:25
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7293.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.302	1.499	0.1000	28.8	25.0	15.1	50.0
Chloromethane	Ave	3.159	3.201	0.1000	25.3	25.0	1.3	20.0
Vinyl chloride	Ave	2.210	2.177	0.1000	24.6	25.0	-1.5	20.0
Butadiene	Ave	2.441	2.380		24.4	25.0	-2.5	20.0
Bromomethane	Ave	1.066	0.8892	0.1000	20.9	25.0	-16.6	50.0
Chloroethane	Ave	1.183	0.9731	0.1000	20.6	25.0	-17.7	50.0
Dichlorofluoromethane	Ave	2.513	2.259		22.5	25.0	-10.1	20.0
Trichlorofluoromethane	Ave	1.914	1.874	0.1000	24.5	25.0	-2.1	20.0
Ethyl ether	Ave	1.848	1.696		23.0	25.0	-8.2	20.0
Acrolein	Ave	0.4474	0.3339		93.3	125	-25.4	50.0
1,1-Dichloroethene	Ave	1.133	1.152	0.1000	25.4	25.0	1.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.011	1.206	0.1000	29.8	25.0	19.3	20.0
Acetone	Ave	0.8519	0.7243	0.1000	106	125	-15.0	50.0
Iodomethane	Ave	2.021	2.078		25.7	25.0	2.8	20.0
Carbon disulfide	Ave	3.552	3.726	0.1000	26.2	25.0	4.9	20.0
Allyl chloride	Ave	3.840	3.903		25.4	25.0	1.6	20.0
Methyl acetate	Ave	2.330	1.659	0.1000	35.6	50.0	-28.8	50.0
Methylene Chloride	Lin1		1.345	0.1000	24.1	25.0	-3.5	20.0
2-Methyl-2-propanol	Ave	0.2484	0.1761		177	250	-29.1	50.0
Methyl tert-butyl ether	Ave	4.282	3.950	0.1000	23.1	25.0	-7.8	20.0
trans-1,2-Dichloroethene	Ave	1.299	1.340	0.1000	25.8	25.0	3.2	20.0
Acrylonitrile	Ave	1.095	0.8154		186	250	-25.5*	20.0
Hexane	Ave	2.812	3.284		29.2	25.0	16.8	20.0
1,1-Dichloroethane	Ave	2.872	3.008	0.2000	26.2	25.0	4.7	20.0
Vinyl acetate	Ave	5.725	4.962		43.3	50.0	-13.3	20.0
2,2-Dichloropropane	Ave	1.648	1.896		28.8	25.0	15.0	20.0
cis-1,2-Dichloroethene	Ave	1.486	1.559	0.1000	26.2	25.0	4.9	20.0
2-Butanone (MEK)	Ave	1.428	1.094	0.1000	95.8	125	-23.3*	20.0
Chlorobromomethane	Ave	0.7444	0.7251		24.4	25.0	-2.6	20.0
Tetrahydrofuran	Ave	1.029	0.7106		34.5	50.0	-30.9*	20.0
Chloroform	Ave	2.361	2.343	0.2000	24.8	25.0	-0.8	20.0
1,1,1-Trichloroethane	Ave	1.900	1.989	0.1000	26.2	25.0	4.7	20.0
Cyclohexane	Ave	3.334	3.943	0.1000	29.6	25.0	18.3	20.0
Carbon tetrachloride	Ave	1.595	1.705	0.1000	26.7	25.0	6.9	20.0
1,1-Dichloropropene	Ave	1.781	1.821		25.6	25.0	2.3	20.0
Benzene	Ave	5.319	5.381	0.5000	25.3	25.0	1.2	20.0
Isobutyl alcohol	Ave	0.1432	0.0995		434	625	-30.5	50.0
1,2-Dichloroethane	Ave	2.556	2.199	0.1000	21.5	25.0	-14.0	20.0
n-Heptane	Ave	3.163	3.779		29.9	25.0	19.5	20.0
Trichloroethene	Ave	1.398	1.392	0.2000	24.9	25.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401359/3 Calibration Date: 02/25/2018 09:25
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7293.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.140	2.582	0.1000	30.2	25.0	20.7*	20.0
1,2-Dichloropropane	Ave	1.646	1.658	0.1000	25.2	25.0	0.7	20.0
Dibromomethane	Ave	0.8461	0.7302	0.1000	21.6	25.0	-13.7	20.0
1,4-Dioxane	Ave	0.0042	0.0037		436	500	-12.7	50.0
Bromodichloromethane	Ave	1.729	1.680	0.2000	24.3	25.0	-2.8	20.0
2-Chloroethyl vinyl ether	Ave	1.222	1.005		20.5	25.0	-17.8	20.0
cis-1,3-Dichloropropene	Ave	2.009	1.990	0.2000	24.8	25.0	-1.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2688	0.2132	0.1000	99.1	125	-20.7*	20.0
Toluene	Ave	0.9347	0.9375	0.4000	25.1	25.0	0.3	20.0
trans-1,3-Dichloropropene	Ave	0.5005	0.4743	0.1000	23.7	25.0	-5.2	20.0
Ethyl methacrylate	Ave	0.5059	0.4161		20.6	25.0	-17.8	20.0
1,1,2-Trichloroethane	Ave	0.2702	0.2517	0.1000	23.3	25.0	-6.8	20.0
Tetrachloroethene	Ave	0.3985	0.4076	0.2000	25.6	25.0	2.3	20.0
1,3-Dichloropropane	Ave	0.5530	0.5085		23.0	25.0	-8.0	20.0
2-Hexanone	Ave	0.5834	0.4474	0.1000	95.9	125	-23.3*	20.0
Dibromochloromethane	Ave	0.3549	0.3299	0.1000	23.2	25.0	-7.0	20.0
1,2-Dibromoethane	Ave	0.3425	0.3094		22.6	25.0	-9.7	20.0
Chlorobenzene	Ave	1.035	1.044	0.5000	25.2	25.0	0.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3401	0.3785		27.8	25.0	11.3	20.0
Ethylbenzene	Ave	1.668	1.720	0.1000	25.8	25.0	3.1	20.0
m,p-Xylene	Ave	0.6769	0.6883	0.1000	25.4	25.0	1.7	20.0
o-Xylene	Ave	0.6534	0.7014	0.3000	26.8	25.0	7.3	20.0
Styrene	Ave	1.110	1.139	0.3000	25.7	25.0	2.6	20.0
Bromoform	Ave	0.2271	0.2038	0.1000	22.4	25.0	-10.3	50.0
Isopropylbenzene	Ave	3.207	3.250	0.1000	25.3	25.0	1.3	20.0
Bromobenzene	Ave	0.8310	0.7952		23.9	25.0	-4.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8607	0.7227	0.3000	21.0	25.0	-16.0	20.0
1,2,3-Trichloropropane	Ave	0.2786	0.2242		20.1	25.0	-19.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4481	0.3478		19.4	25.0	-22.4	50.0
N-Propylbenzene	Ave	3.661	3.714		25.4	25.0	1.5	20.0
2-Chlorotoluene	Ave	0.7907	0.7972		25.2	25.0	0.8	20.0
1,3,5-Trimethylbenzene	Ave	2.641	2.674		25.3	25.0	1.3	20.0
4-Chlorotoluene	Ave	2.545	2.480		24.4	25.0	-2.6	20.0
tert-Butylbenzene	Ave	0.5991	0.6310		26.3	25.0	5.3	20.0
1,2,4-Trimethylbenzene	Ave	2.706	2.743		25.3	25.0	1.4	20.0
sec-Butylbenzene	Ave	3.370	3.498		26.0	25.0	3.8	20.0
1,3-Dichlorobenzene	Ave	1.595	1.579	0.6000	24.7	25.0	-1.0	20.0
4-Isopropyltoluene	Ave	3.006	3.222		26.8	25.0	7.2	20.0
1,4-Dichlorobenzene	Ave	1.620	1.578	0.5000	24.4	25.0	-2.6	20.0
n-Butylbenzene	Ave	2.496	2.634		26.4	25.0	5.5	20.0
1,2-Dichlorobenzene	Ave	1.505	1.517	0.4000	25.2	25.0	0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401359/3 Calibration Date: 02/25/2018 09:25
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7293.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1397	0.1176	0.0500	21.0	25.0	-15.8	50.0
1,2,4-Trichlorobenzene	Ave	0.9390	0.9701	0.2000	25.8	25.0	3.3	20.0
Hexachlorobutadiene	Ave	0.4527	0.4534		25.0	25.0	0.1	20.0
Naphthalene	Ave	2.470	2.166		21.9	25.0	-12.3	20.0
1,2,3-Trichlorobenzene	Ave	0.8024	0.7802		24.3	25.0	-2.8	20.0
Dibromofluoromethane (Surr)	Ave	1.120	1.081		24.1	25.0	-3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.544	1.404		22.7	25.0	-9.1	20.0
Toluene-d8 (Surr)	Ave	1.225	1.174		24.0	25.0	-4.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3896	0.4110		26.4	25.0	5.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7293.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 25-Feb-2018 09:25:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0069477-003
 Operator ID: AM Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 10:03:30 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata

Date: 25-Feb-2018 09:48:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	207849	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	749253	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.790	0.000	95	411621	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	53	224586	25.0	24.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	291824	25.0	22.7	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	94	879668	25.0	24.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.646	0.000	93	307970	25.0	26.4	
11 Dichlorodifluoromethane	85	1.318	1.318	0.000	98	311542	25.0	28.8	
13 Chloromethane	50	1.482	1.482	0.000	99	665381	25.0	25.3	
14 Vinyl chloride	62	1.574	1.574	0.000	97	452543	25.0	24.6	
144 Butadiene	54	1.604	1.604	0.000	92	494732	25.0	24.4	
15 Bromomethane	94	1.859	1.859	0.000	91	184828	25.0	20.9	
16 Chloroethane	64	1.951	1.951	0.000	95	202255	25.0	20.6	
17 Dichlorofluoromethane	67	2.164	2.164	0.000	92	469597	25.0	22.5	
18 Trichlorofluoromethane	101	2.170	2.170	0.000	82	389519	25.0	24.5	
19 Ethyl ether	59	2.480	2.480	0.000	94	352593	25.0	23.0	
20 Acrolein	56	2.632	2.632	0.000	99	347040	125.0	93.3	
22 1,1-Dichloroethene	96	2.669	2.669	0.000	90	239521	25.0	25.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.675	2.675	0.000	48	250595	25.0	29.8	M
23 Acetone	43	2.790	2.790	0.000	98	752748	125.0	106.3	
24 Iodomethane	142	2.821	2.821	0.000	98	431833	25.0	25.7	
25 Carbon disulfide	76	2.863	2.863	0.000	99	774485	25.0	26.2	
27 3-Chloro-1-propene	41	3.034	3.034	0.000	87	811170	25.0	25.4	
28 Methyl acetate	43	3.088	3.088	0.000	99	689749	50.0	35.6	
30 Methylene Chloride	84	3.167	3.167	0.000	89	279554	25.0	24.1	
31 2-Methyl-2-propanol	59	3.362	3.362	0.000	96	365953	250.0	177.2	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	95	820911	25.0	23.1	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	89	278594	25.0	25.8	
34 Acrylonitrile	53	3.435	3.435	0.000	98	1694727	250.0	186.2	
35 Hexane	57	3.618	3.618	0.000	96	682489	25.0	29.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.806	3.806	0.000	96	625183	25.0	26.2	
39 Vinyl acetate	43	3.867	3.867	0.000	96	2062730	50.0	43.3	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	85	394146	25.0	28.8	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	85	324029	25.0	26.2	
44 2-Butanone (MEK)	43	4.390	4.390	0.000	96	1137233	125.0	95.8	
47 Chlorobromomethane	128	4.585	4.585	0.000	85	150706	25.0	24.4	
49 Tetrahydrofuran	42	4.621	4.621	0.000	93	295409	50.0	34.5	
50 Chloroform	83	4.664	4.664	0.000	95	487013	25.0	24.8	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	95	413508	25.0	26.2	
52 Cyclohexane	56	4.810	4.810	0.000	91	819557	25.0	29.6	
53 Carbon tetrachloride	117	4.932	4.932	0.000	93	354335	25.0	26.7	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	84	378573	25.0	25.6	
55 Benzene	78	5.138	5.138	0.000	93	1118393	25.0	25.3	
56 Isobutyl alcohol	43	5.145	5.145	0.000	92	517182	625.0	434.5	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	95	457026	25.0	21.5	
59 n-Heptane	43	5.345	5.345	0.000	95	785436	25.0	29.9	
60 Trichloroethene	95	5.747	5.747	0.000	93	289334	25.0	24.9	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	536603	25.0	30.2	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	89	344539	25.0	25.2	
64 Dibromomethane	93	6.106	6.106	0.000	96	151778	25.0	21.6	
66 1,4-Dioxane	88	6.118	6.118	0.000	93	54653	500.0	436.5	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	349262	25.0	24.3	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	85	208822	25.0	20.5	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	85	413613	25.0	24.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	798807	125.0	99.1	
73 Toluene	92	6.982	6.982	0.000	97	702449	25.0	25.1	
75 trans-1,3-Dichloropropene	75	7.243	7.243	0.000	90	355364	25.0	23.7	
77 Ethyl methacrylate	69	7.304	7.304	0.000	87	311773	25.0	20.6	
78 1,1,2-Trichloroethane	83	7.432	7.432	0.000	92	188612	25.0	23.3	
79 Tetrachloroethene	166	7.517	7.517	0.000	95	305415	25.0	25.6	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	90	380994	25.0	23.0	
82 2-Hexanone	43	7.663	7.663	0.000	98	1676105	125.0	95.9	
83 Chlorodibromomethane	129	7.827	7.827	0.000	89	247158	25.0	23.2	
84 Ethylene Dibromide	107	7.931	7.931	0.000	97	231780	25.0	22.6	
85 Chlorobenzene	112	8.424	8.424	0.000	92	782468	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	93	283584	25.0	27.8	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1288353	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	515743	25.0	25.4	
91 o-Xylene	106	9.068	9.068	0.000	97	525492	25.0	26.8	
92 Styrene	104	9.093	9.093	0.000	94	853271	25.0	25.7	
93 Bromoform	173	9.324	9.324	0.000	97	152685	25.0	22.4	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1337734	25.0	25.3	
97 Bromobenzene	156	9.792	9.792	0.000	88	327301	25.0	23.9	
98 1,1,2,2-Tetrachloroethane	83	9.835	9.835	0.000	96	297470	25.0	21.0	
99 1,2,3-Trichloropropane	110	9.865	9.865	0.000	92	92279	25.0	20.1	
101 trans-1,4-Dichloro-2-buten	53	9.884	9.884	0.000	77	143166	25.0	19.4	
100 N-Propylbenzene	91	9.890	9.890	0.000	99	1528763	25.0	25.4	
102 2-Chlorotoluene	126	9.987	9.987	0.000	96	328124	25.0	25.2	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	1100673	25.0	25.3	
105 4-Chlorotoluene	91	10.091	10.091	0.000	97	1020746	25.0	24.4	
106 tert-Butylbenzene	134	10.389	10.389	0.000	95	259742	25.0	26.3	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	1128995	25.0	25.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	1439823	25.0	26.0	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	649829	25.0	24.7	
111 4-Isopropyltoluene	119	10.741	10.741	0.000	99	1326435	25.0	26.8	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	93	649370	25.0	24.4	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	1084046	25.0	26.4	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	97	624411	25.0	25.2	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	76	48395	25.0	21.0	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	94	399296	25.0	25.8	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	96	186614	25.0	25.0	
121 Naphthalene	128	12.786	12.786	0.000	97	891440	25.0	21.9	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	95	321129	25.0	24.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00266	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7293.D

Injection Date: 25-Feb-2018 09:25:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

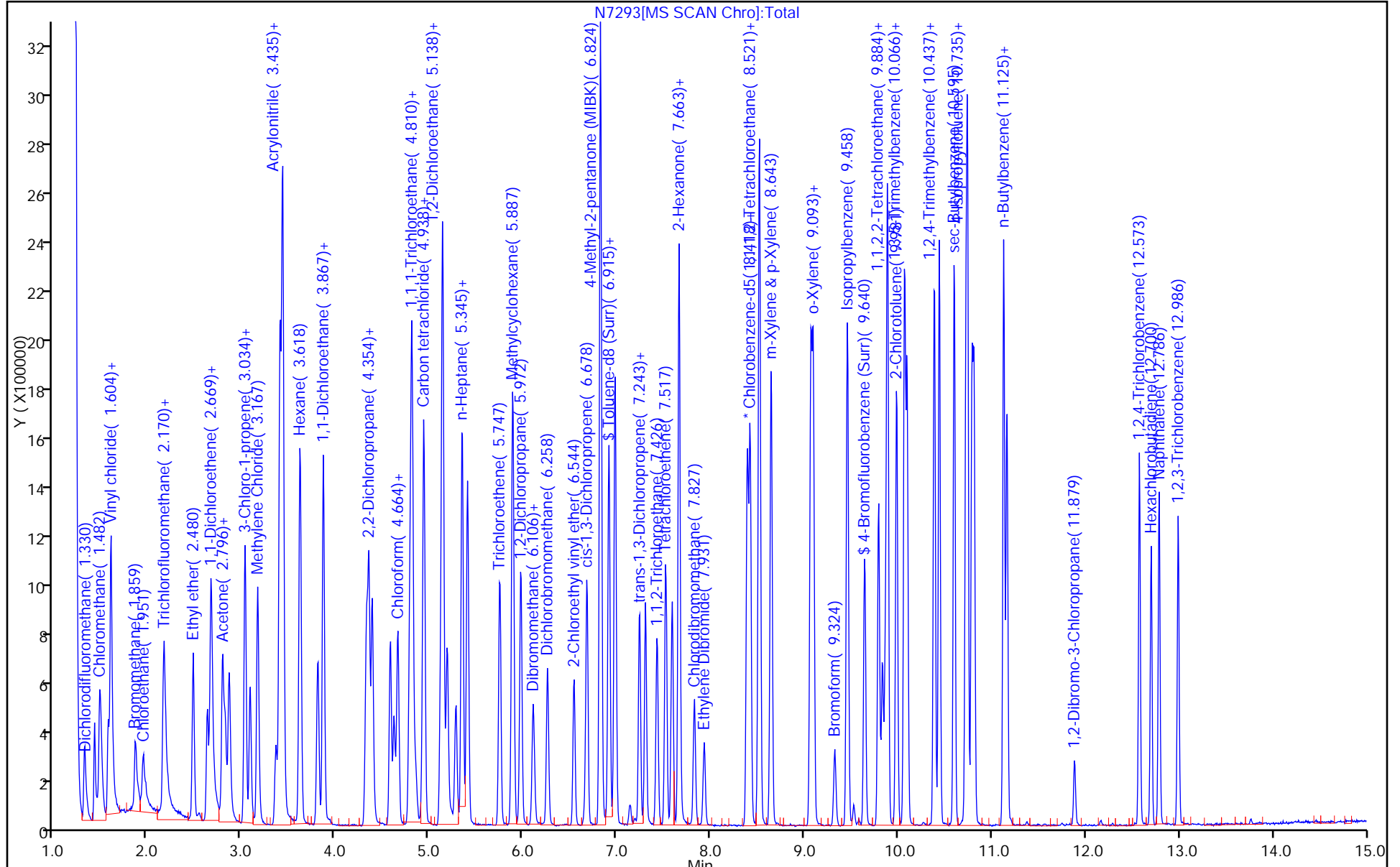
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

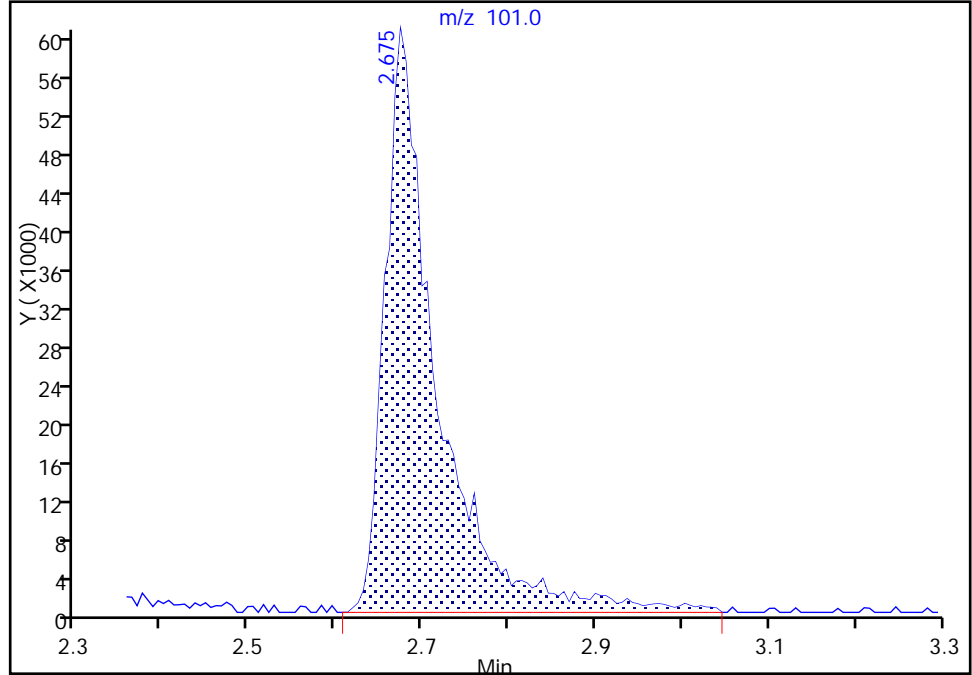
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Injection Date: 25-Feb-2018 09:25:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

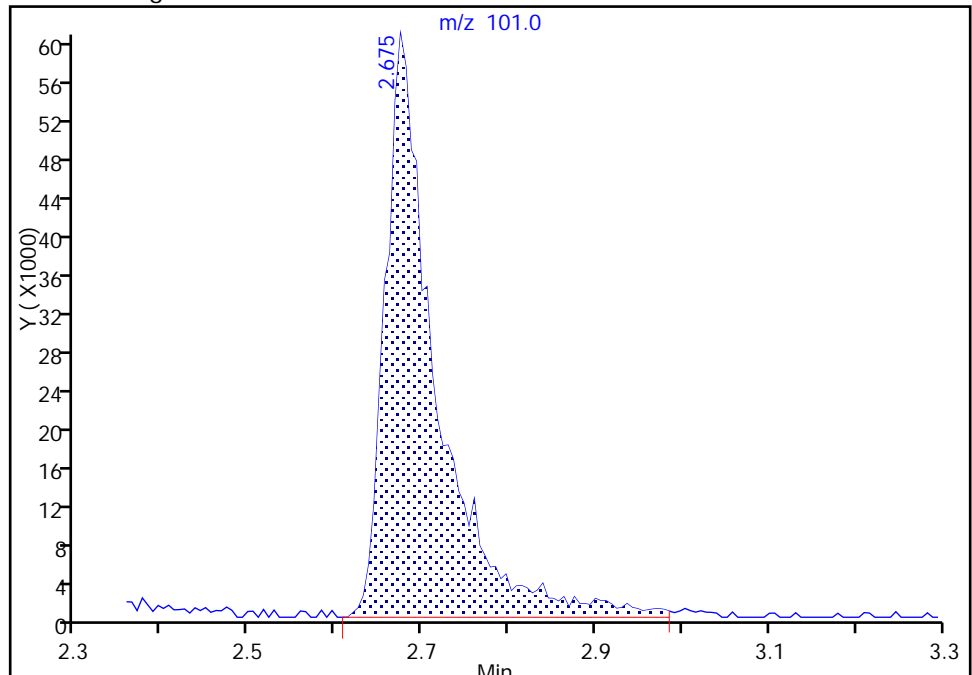
RT: 2.67
Area: 252576
Amount: 30.058680
Amount Units: ug/L

Processing Integration Results



RT: 2.67
Area: 250595
Amount: 29.822925
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 09:46:36
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

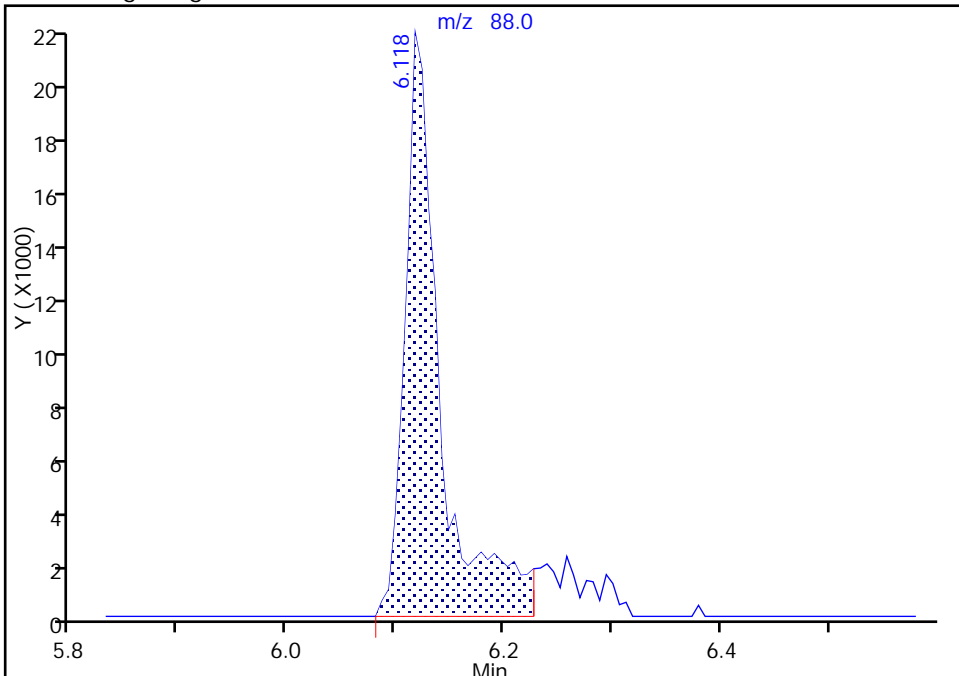
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7293.D
Injection Date: 25-Feb-2018 09:25:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

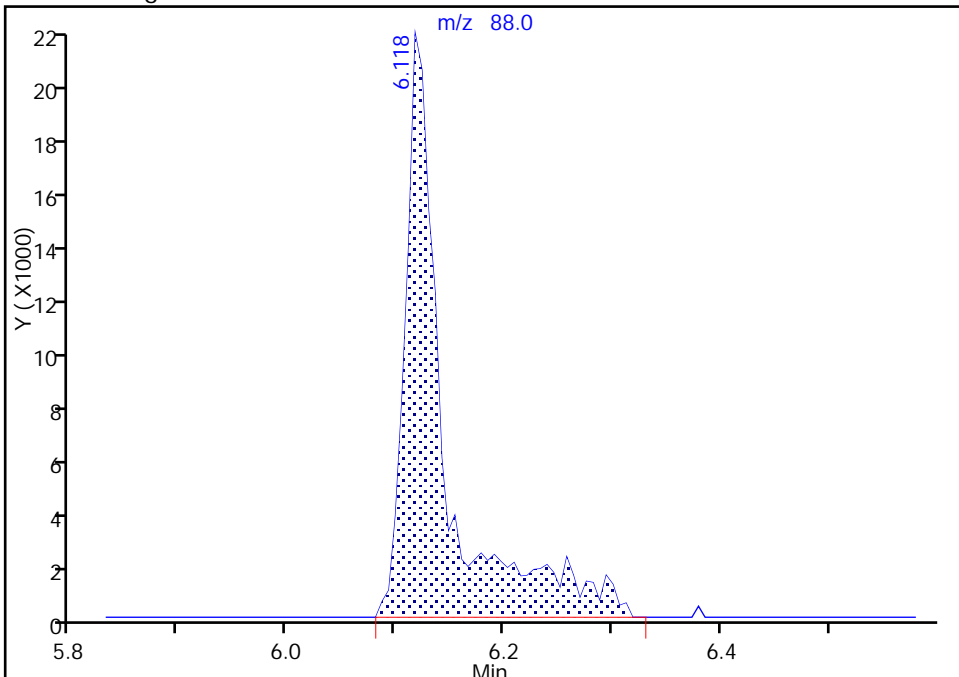
RT: 6.12
Area: 48178
Amount: 384.7640
Amount Units: ug/L

Processing Integration Results



RT: 6.12
Area: 54653
Amount: 436.4753
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 09:47:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401400/3 Calibration Date: 02/26/2018 09:17
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7309.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.302	1.447	0.1000	27.8	25.0	11.1	50.0
Chloromethane	Ave	3.159	3.211	0.1000	25.4	25.0	1.7	20.0
Vinyl chloride	Ave	2.210	2.242	0.1000	25.4	25.0	1.5	20.0
Butadiene	Ave	2.441	2.718		27.8	25.0	11.4	20.0
Bromomethane	Ave	1.066	1.013	0.1000	23.8	25.0	-5.0	50.0
Chloroethane	Ave	1.183	1.187	0.1000	25.1	25.0	0.4	50.0
Trichlorofluoromethane	Ave	1.914	2.126	0.1000	27.8	25.0	11.1	20.0
Dichlorofluoromethane	Ave	2.513	2.457		24.4	25.0	-2.2	20.0
Ethyl ether	Ave	1.848	1.747		23.6	25.0	-5.4	20.0
Acrolein	Ave	0.4474	0.3112		86.9	125	-30.5	50.0
1,1-Dichloroethene	Ave	1.133	1.250	0.1000	27.6	25.0	10.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.011	1.261	0.1000	31.2	25.0	24.8*	20.0
Acetone	Ave	0.8519	0.6235	0.1000	91.5	125	-26.8	50.0
Iodomethane	Ave	2.021	2.200		27.2	25.0	8.9	20.0
Carbon disulfide	Ave	3.552	4.074	0.1000	28.7	25.0	14.7	20.0
Allyl chloride	Ave	3.840	4.173		27.2	25.0	8.7	20.0
Methyl acetate	Ave	2.330	1.614	0.1000	34.6	50.0	-30.7	50.0
Methylene Chloride	Lin1		1.408	0.1000	25.3	25.0	1.2	20.0
2-Methyl-2-propanol	Ave	0.2484	0.1913		193	250	-23.0	50.0
Methyl tert-butyl ether	Ave	4.282	3.953	0.1000	23.1	25.0	-7.7	20.0
trans-1,2-Dichloroethene	Ave	1.299	1.424	0.1000	27.4	25.0	9.6	20.0
Acrylonitrile	Ave	1.095	0.8010		183	250	-26.8*	20.0
Hexane	Ave	2.812	3.567		31.7	25.0	26.8*	20.0
1,1-Dichloroethane	Ave	2.872	3.157	0.2000	27.5	25.0	9.9	20.0
Vinyl acetate	Ave	5.725	4.998		43.6	50.0	-12.7	20.0
2,2-Dichloropropane	Ave	1.648	2.016		30.6	25.0	22.3*	20.0
cis-1,2-Dichloroethene	Ave	1.486	1.596	0.1000	26.8	25.0	7.4	20.0
2-Butanone (MEK)	Ave	1.428	0.9759	0.1000	85.4	125	-31.6*	20.0
Chlorobromomethane	Ave	0.7444	0.7581		25.5	25.0	1.8	20.0
Tetrahydrofuran	Ave	1.029	0.6695		32.5	50.0	-34.9*	20.0
Chloroform	Ave	2.361	2.429	0.2000	25.7	25.0	2.9	20.0
1,1,1-Trichloroethane	Ave	1.900	2.129	0.1000	28.0	25.0	12.1	20.0
Cyclohexane	Ave	3.334	4.227	0.1000	31.7	25.0	26.8*	20.0
Carbon tetrachloride	Ave	1.595	1.872	0.1000	29.3	25.0	17.3	20.0
1,1-Dichloropropene	Ave	1.781	1.930		27.1	25.0	8.3	20.0
Isobutyl alcohol	Ave	0.1432	0.1032		451	625	-27.9	50.0
Benzene	Ave	5.319	5.666	0.5000	26.6	25.0	6.5	20.0
1,2-Dichloroethane	Ave	2.556	2.249	0.1000	22.0	25.0	-12.0	20.0
n-Heptane	Ave	3.163	3.979		31.4	25.0	25.8*	20.0
Trichloroethene	Ave	1.398	1.490	0.2000	26.6	25.0	6.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401400/3 Calibration Date: 02/26/2018 09:17
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7309.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.140	2.737	0.1000	32.0	25.0	27.9*	20.0
1,2-Dichloropropane	Ave	1.646	1.729	0.1000	26.3	25.0	5.0	20.0
Dibromomethane	Ave	0.8461	0.7913	0.1000	23.4	25.0	-6.5	20.0
1,4-Dioxane	Ave	0.0042	0.0033		393	500	-21.3	50.0
Bromodichloromethane	Ave	1.729	1.798	0.2000	26.0	25.0	4.0	20.0
2-Chloroethyl vinyl ether	Ave	1.222	1.028		21.0	25.0	-15.9	20.0
cis-1,3-Dichloropropene	Ave	2.009	2.072	0.2000	25.8	25.0	3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2688	0.2005	0.1000	93.2	125	-25.4*	20.0
Toluene	Ave	0.9347	0.9461	0.4000	25.3	25.0	1.2	20.0
trans-1,3-Dichloropropene	Ave	0.5005	0.4887	0.1000	24.4	25.0	-2.4	20.0
Ethyl methacrylate	Ave	0.5059	0.4114		20.3	25.0	-18.7	20.0
1,1,2-Trichloroethane	Ave	0.2702	0.2378	0.1000	22.0	25.0	-12.0	20.0
Tetrachloroethene	Ave	0.3985	0.4284	0.2000	26.9	25.0	7.5	20.0
1,3-Dichloropropane	Ave	0.5530	0.4868		22.0	25.0	-12.0	20.0
2-Hexanone	Ave	0.5834	0.4106	0.1000	88.0	125	-29.6*	20.0
Dibromochloromethane	Ave	0.3549	0.3336	0.1000	23.5	25.0	-6.0	20.0
1,2-Dibromoethane	Ave	0.3425	0.2958		21.6	25.0	-13.6	20.0
Chlorobenzene	Ave	1.035	1.064	0.5000	25.7	25.0	2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3401	0.3822		28.1	25.0	12.4	20.0
Ethylbenzene	Ave	1.668	1.769	0.1000	26.5	25.0	6.1	20.0
m,p-Xylene	Ave	0.6769	0.7099	0.1000	26.2	25.0	4.9	20.0
o-Xylene	Ave	0.6534	0.7118	0.3000	27.2	25.0	8.9	20.0
Styrene	Ave	1.110	1.158	0.3000	26.1	25.0	4.4	20.0
Bromoform	Ave	0.2271	0.2026	0.1000	22.3	25.0	-10.8	50.0
Isopropylbenzene	Ave	3.207	3.427	0.1000	26.7	25.0	6.8	20.0
Bromobenzene	Ave	0.8310	0.8295		25.0	25.0	-0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8607	0.7092	0.3000	20.6	25.0	-17.6	20.0
1,2,3-Trichloropropane	Ave	0.2786	0.2065		18.5	25.0	-25.9*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4481	0.3496		19.5	25.0	-22.0	50.0
N-Propylbenzene	Ave	3.661	3.920		26.8	25.0	7.1	20.0
2-Chlorotoluene	Ave	0.7907	0.8200		25.9	25.0	3.7	20.0
1,3,5-Trimethylbenzene	Ave	2.641	2.796		26.5	25.0	5.9	20.0
4-Chlorotoluene	Ave	2.545	2.617		25.7	25.0	2.8	20.0
tert-Butylbenzene	Ave	0.5991	0.6691		27.9	25.0	11.7	20.0
1,2,4-Trimethylbenzene	Ave	2.706	2.862		26.4	25.0	5.8	20.0
sec-Butylbenzene	Ave	3.370	3.639		27.0	25.0	8.0	20.0
1,3-Dichlorobenzene	Ave	1.595	1.658	0.6000	26.0	25.0	4.0	20.0
4-Isopropyltoluene	Ave	3.006	3.365		28.0	25.0	11.9	20.0
1,4-Dichlorobenzene	Ave	1.620	1.662	0.5000	25.6	25.0	2.6	20.0
n-Butylbenzene	Ave	2.496	2.814		28.2	25.0	12.7	20.0
1,2-Dichlorobenzene	Ave	1.505	1.559	0.4000	25.9	25.0	3.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401400/3 Calibration Date: 02/26/2018 09:17
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7309.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1397	0.1094	0.0500	19.6	25.0	-21.7	50.0
1,2,4-Trichlorobenzene	Ave	0.9390	1.038	0.2000	27.6	25.0	10.5	20.0
Hexachlorobutadiene	Ave	0.4527	0.4923		27.2	25.0	8.7	20.0
Naphthalene	Ave	2.470	2.115		21.4	25.0	-14.4	20.0
1,2,3-Trichlorobenzene	Ave	0.8024	0.8533		26.6	25.0	6.3	20.0
Dibromofluoromethane (Surr)	Ave	1.120	1.144		25.5	25.0	2.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.544	1.403		22.7	25.0	-9.1	20.0
Toluene-d8 (Surr)	Ave	1.225	1.210		24.7	25.0	-1.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3896	0.3897		25.0	25.0	0.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7309.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 26-Feb-2018 09:17:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0069487-003
 Operator ID: AM Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 09:44:30 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: moffata

Date: 26-Feb-2018 09:44:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	201500	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	755370	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.790	0.000	94	402541	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	93	230530	25.0	25.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	282792	25.0	22.7	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	913766	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.641	9.641	0.000	89	294347	25.0	25.0	
11 Dichlorodifluoromethane	85	1.324	1.324	0.000	98	291473	25.0	27.8	
13 Chloromethane	50	1.495	1.495	0.000	99	647022	25.0	25.4	
14 Vinyl chloride	62	1.580	1.580	0.000	98	451765	25.0	25.4	
144 Butadiene	54	1.616	1.616	0.000	93	547731	25.0	27.8	
15 Bromomethane	94	1.872	1.872	0.000	90	204099	25.0	23.8	
16 Chloroethane	64	1.975	1.975	0.000	96	239175	25.0	25.1	
18 Trichlorofluoromethane	101	2.176	2.176	0.000	96	428457	25.0	27.8	
17 Dichlorofluoromethane	67	2.188	2.188	0.000	96	495114	25.0	24.4	
19 Ethyl ether	59	2.474	2.474	0.000	93	352098	25.0	23.6	
20 Acrolein	56	2.626	2.626	0.000	99	313499	125.0	86.9	
22 1,1-Dichloroethene	96	2.675	2.675	0.000	91	251937	25.0	27.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	0.000	93	254069	25.0	31.2	
23 Acetone	43	2.778	2.778	0.000	99	628169	125.0	91.5	
24 Iodomethane	142	2.827	2.827	0.000	100	443396	25.0	27.2	
25 Carbon disulfide	76	2.870	2.870	0.000	98	820900	25.0	28.7	
27 3-Chloro-1-propene	41	3.034	3.034	0.000	87	840866	25.0	27.2	
28 Methyl acetate	43	3.076	3.076	0.000	99	650458	50.0	34.6	
30 Methylene Chloride	84	3.168	3.168	0.000	88	283724	25.0	25.3	
31 2-Methyl-2-propanol	59	3.326	3.326	0.000	98	385440	250.0	192.5	
32 Methyl tert-butyl ether	73	3.399	3.399	0.000	94	796584	25.0	23.1	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	90	286943	25.0	27.4	
34 Acrylonitrile	53	3.429	3.429	0.000	98	1613949	250.0	182.9	M
35 Hexane	57	3.618	3.618	0.000	96	718799	25.0	31.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.806	3.806	0.000	96	636096	25.0	27.5	
39 Vinyl acetate	43	3.861	3.861	0.000	96	2013999	50.0	43.6	
42 2,2-Dichloropropane	77	4.330	4.330	0.000	84	406217	25.0	30.6	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	321493	25.0	26.8	
44 2-Butanone (MEK)	43	4.378	4.378	0.000	96	983174	125.0	85.4	
47 Chlorobromomethane	128	4.585	4.585	0.000	86	152757	25.0	25.5	
49 Tetrahydrofuran	42	4.616	4.616	0.000	93	269816	50.0	32.5	
50 Chloroform	83	4.664	4.664	0.000	96	489506	25.0	25.7	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	96	429062	25.0	28.0	
52 Cyclohexane	56	4.810	4.810	0.000	97	851672	25.0	31.7	
53 Carbon tetrachloride	117	4.932	4.932	0.000	97	377129	25.0	29.3	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	83	388813	25.0	27.1	
56 Isobutyl alcohol	43	5.127	5.127	0.000	93	519997	625.0	450.6	
55 Benzene	78	5.139	5.139	0.000	94	1141757	25.0	26.6	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	94	453210	25.0	22.0	
59 n-Heptane	43	5.346	5.346	0.000	96	801736	25.0	31.4	
60 Trichloroethene	95	5.747	5.747	0.000	94	300209	25.0	26.6	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	551601	25.0	32.0	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	89	348339	25.0	26.3	
64 Dibromomethane	93	6.106	6.106	0.000	97	159444	25.0	23.4	
66 1,4-Dioxane	88	6.112	6.112	0.000	88	49669	500.0	393.5	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	362325	25.0	26.0	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	87	207094	25.0	21.0	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	84	417581	25.0	25.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	757068	125.0	93.2	
73 Toluene	92	6.976	6.976	0.000	96	714679	25.0	25.3	
75 trans-1,3-Dichloropropene	75	7.238	7.238	0.000	91	369129	25.0	24.4	
77 Ethyl methacrylate	69	7.304	7.304	0.000	88	310775	25.0	20.3	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	179595	25.0	22.0	
79 Tetrachloroethene	166	7.517	7.517	0.000	96	323564	25.0	26.9	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	89	367722	25.0	22.0	
82 2-Hexanone	43	7.657	7.657	0.000	98	1550785	125.0	88.0	
83 Chlorodibromomethane	129	7.822	7.822	0.000	90	251966	25.0	23.5	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	223405	25.0	21.6	
85 Chlorobenzene	112	8.418	8.418	0.000	94	803694	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	93	288716	25.0	28.1	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1336604	25.0	26.5	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	536251	25.0	26.2	
91 o-Xylene	106	9.069	9.069	0.000	97	537681	25.0	27.2	
92 Styrene	104	9.093	9.093	0.000	94	874994	25.0	26.1	
93 Bromoform	173	9.324	9.324	0.000	97	153049	25.0	22.3	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1379454	25.0	26.7	
97 Bromobenzene	156	9.793	9.793	0.000	88	333910	25.0	25.0	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	285487	25.0	20.6	
99 1,2,3-Trichloropropane	110	9.860	9.860	0.000	93	83125	25.0	18.5	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	0.000	71	140744	25.0	19.5	
100 N-Propylbenzene	91	9.884	9.884	0.000	99	1577902	25.0	26.8	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	330075	25.0	25.9	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	1125544	25.0	26.5	
105 4-Chlorotoluene	91	10.091	10.091	0.000	98	1053362	25.0	25.7	
106 tert-Butylbenzene	134	10.383	10.383	0.000	94	269339	25.0	27.9	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	1152027	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	95	1464818	25.0	27.0	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	667443	25.0	26.0	
111 4-Isopropyltoluene	119	10.742	10.742	0.000	98	1354411	25.0	28.0	
113 1,4-Dichlorobenzene	146	10.809	10.809	0.000	94	668878	25.0	25.6	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	1132599	25.0	28.2	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	97	627417	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	77	44047	25.0	19.6	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	417828	25.0	27.6	
120 Hexachlorobutadiene	225	12.701	12.701	0.000	97	198168	25.0	27.2	
121 Naphthalene	128	12.780	12.780	0.000	97	851188	25.0	21.4	
122 1,2,3-Trichlorobenzene	180	12.987	12.987	0.000	95	343493	25.0	26.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00266	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7309.D

Injection Date: 26-Feb-2018 09:17:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

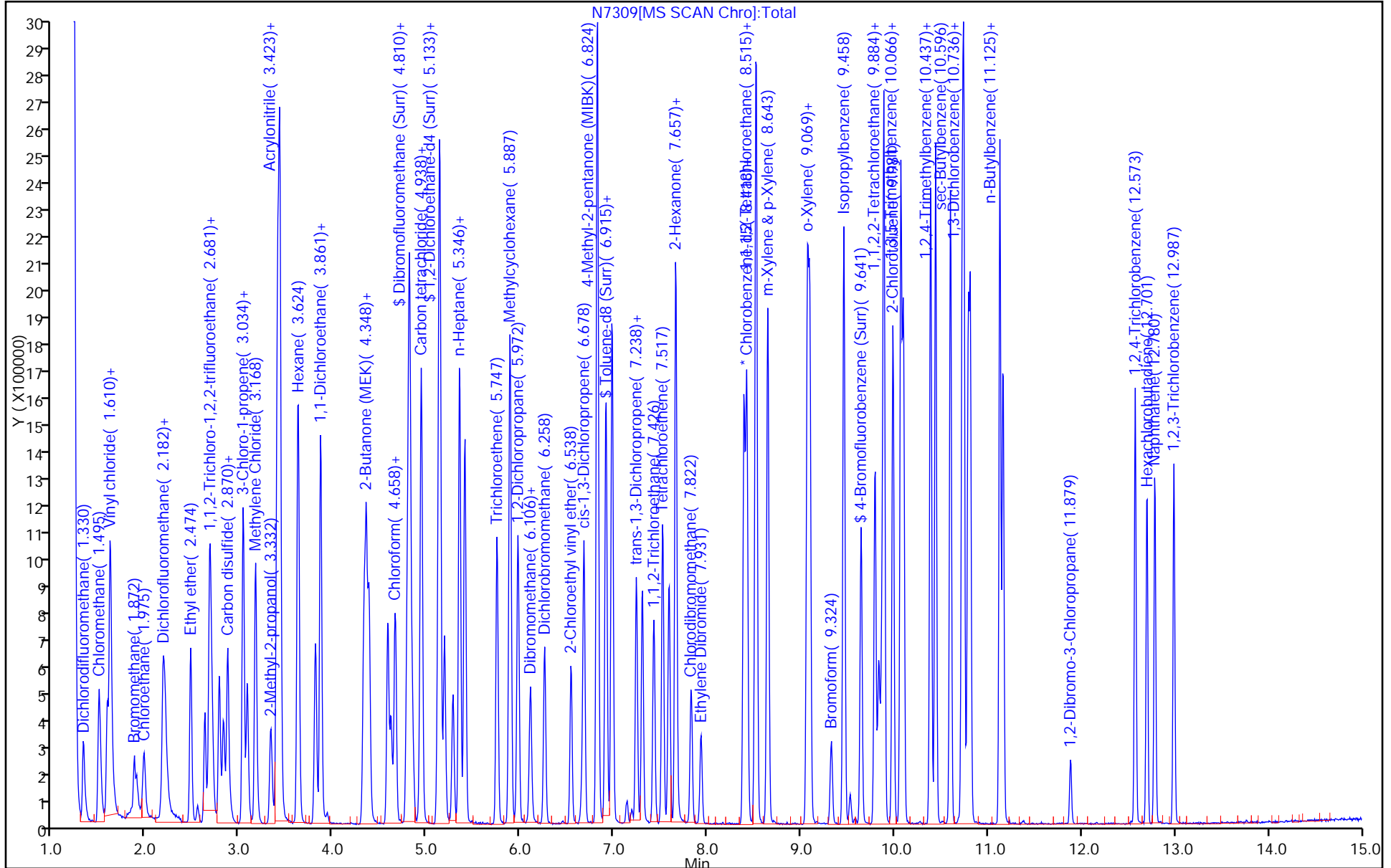
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

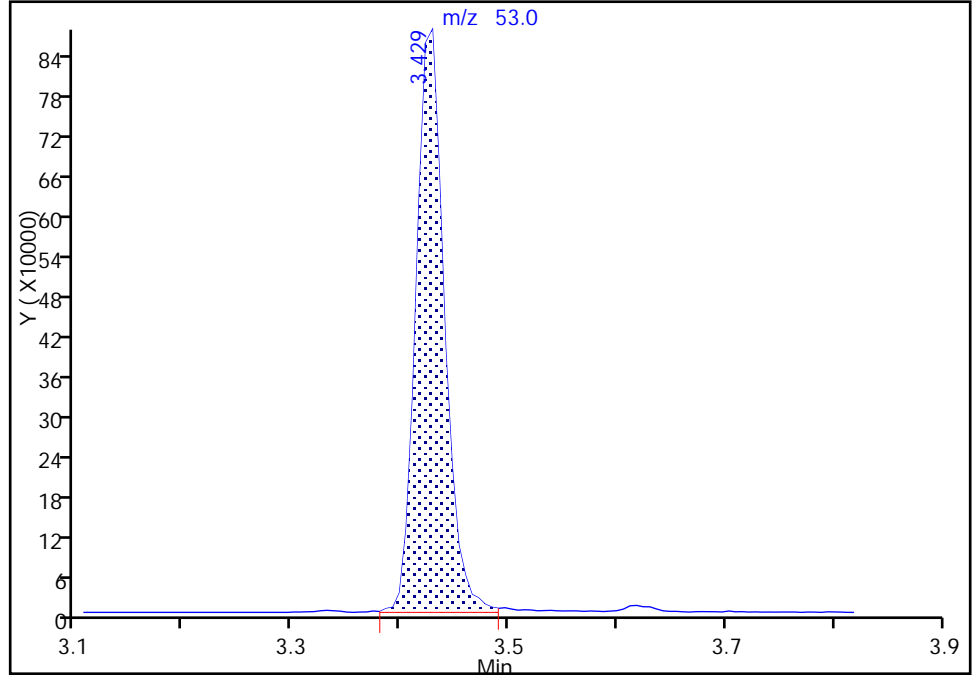
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7309.D
Injection Date: 26-Feb-2018 09:17:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

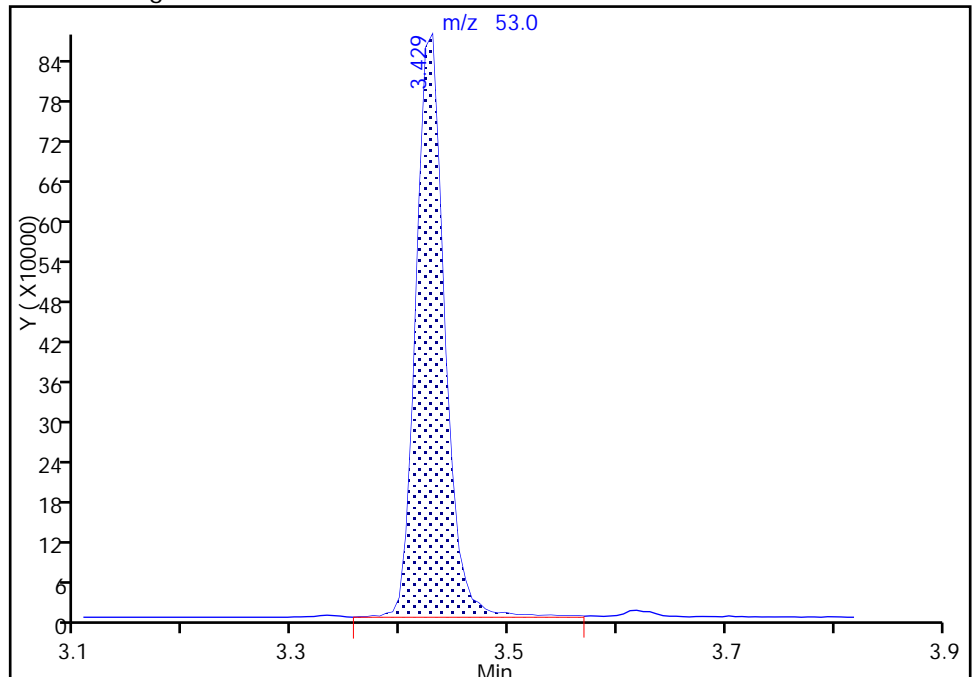
RT: 3.43
Area: 1597507
Amount: 181.0287
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 1613949
Amount: 182.8919
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 26-Feb-2018 09:42:48
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401795/3 Calibration Date: 02/28/2018 09:07
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.302	1.416	0.1000	27.2	25.0	8.8	50.0
Chloromethane	Ave	3.159	3.091	0.1000	24.5	25.0	-2.2	20.0
Vinyl chloride	Ave	2.210	2.046	0.1000	23.1	25.0	-7.4	20.0
Butadiene	Ave	2.441	2.182		22.4	25.0	-10.6	20.0
Bromomethane	Ave	1.066	1.002	0.1000	23.5	25.0	-5.9	50.0
Chloroethane	Ave	1.183	1.111	0.1000	23.5	25.0	-6.1	50.0
Dichlorofluoromethane	Ave	2.513	2.305		22.9	25.0	-8.3	20.0
Trichlorofluoromethane	Ave	1.914	1.901	0.1000	24.8	25.0	-0.7	20.0
Ethyl ether	Ave	1.848	1.683		22.8	25.0	-8.9	20.0
Acrolein	Ave	0.4474	0.3503		97.9	125	-21.7	50.0
1,1-Dichloroethene	Ave	1.133	1.095	0.1000	24.2	25.0	-3.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.011	1.083	0.1000	26.8	25.0	7.1	20.0
Acetone	Ave	0.8519	0.5873	0.1000	86.2	125	-31.1	50.0
Iodomethane	Ave	2.021	1.883		23.3	25.0	-6.8	20.0
Carbon disulfide	Ave	3.552	3.473	0.1000	24.4	25.0	-2.2	20.0
Allyl chloride	Ave	3.840	3.614		23.5	25.0	-5.9	20.0
Methyl acetate	Ave	2.330	2.009	0.1000	43.1	50.0	-13.8	50.0
Methylene Chloride	Lin1		1.338	0.1000	24.0	25.0	-4.0	20.0
2-Methyl-2-propanol	Ave	0.2484	0.1727		174	250	-30.5	50.0
Methyl tert-butyl ether	Ave	4.282	3.942	0.1000	23.0	25.0	-7.9	20.0
trans-1,2-Dichloroethene	Ave	1.299	1.227	0.1000	23.6	25.0	-5.6	20.0
Acrylonitrile	Ave	1.095	1.005		229	250	-8.2	20.0
Hexane	Ave	2.812	3.084		27.4	25.0	9.7	20.0
1,1-Dichloroethane	Ave	2.872	2.737	0.2000	23.8	25.0	-4.7	20.0
Vinyl acetate	Ave	5.725	5.828		50.9	50.0	1.8	20.0
2,2-Dichloropropane	Ave	1.648	1.518		23.0	25.0	-7.9	20.0
cis-1,2-Dichloroethene	Ave	1.486	1.429	0.1000	24.0	25.0	-3.8	20.0
2-Butanone (MEK)	Ave	1.428	1.260	0.1000	110	125	-11.7	20.0
Chlorobromomethane	Ave	0.7444	0.6873		23.1	25.0	-7.7	20.0
Tetrahydrofuran	Ave	1.029	0.8766		42.6	50.0	-14.8	20.0
Chloroform	Ave	2.361	2.107	0.2000	22.3	25.0	-10.8	20.0
1,1,1-Trichloroethane	Ave	1.900	1.772	0.1000	23.3	25.0	-6.7	20.0
Cyclohexane	Ave	3.334	3.316	0.1000	24.9	25.0	-0.6	20.0
Carbon tetrachloride	Ave	1.595	1.516	0.1000	23.8	25.0	-5.0	20.0
1,1-Dichloropropene	Ave	1.781	1.637		23.0	25.0	-8.1	20.0
Isobutyl alcohol	Ave	0.1432	0.1410		616	625	-1.5	50.0
Benzene	Ave	5.319	5.003	0.5000	23.5	25.0	-5.9	20.0
1,2-Dichloroethane	Ave	2.556	2.161	0.1000	21.1	25.0	-15.4	20.0
n-Heptane	Ave	3.163	3.710		29.3	25.0	17.3	20.0
Trichloroethene	Ave	1.398	1.301	0.2000	23.3	25.0	-6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401795/3 Calibration Date: 02/28/2018 09:07
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.140	2.241	0.1000	26.2	25.0	4.8	20.0
1,2-Dichloropropane	Ave	1.646	1.593	0.1000	24.2	25.0	-3.2	20.0
Dibromomethane	Ave	0.8461	0.7960	0.1000	23.5	25.0	-5.9	20.0
1,4-Dioxane	Ave	0.0042	0.0043		515	500	3.0	50.0
Bromodichloromethane	Ave	1.729	1.659	0.2000	24.0	25.0	-4.1	20.0
2-Chloroethyl vinyl ether	Ave	1.222	1.210		24.7	25.0	-1.0	20.0
cis-1,3-Dichloropropene	Ave	2.009	1.974	0.2000	24.6	25.0	-1.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2688	0.2603	0.1000	121	125	-3.2	20.0
Toluene	Ave	0.9347	0.8335	0.4000	22.3	25.0	-10.8	20.0
trans-1,3-Dichloropropene	Ave	0.5005	0.4836	0.1000	24.2	25.0	-3.4	20.0
Ethyl methacrylate	Ave	0.5059	0.4651		23.0	25.0	-8.1	20.0
1,1,2-Trichloroethane	Ave	0.2702	0.2547	0.1000	23.6	25.0	-5.8	20.0
Tetrachloroethene	Ave	0.3985	0.3722	0.2000	23.4	25.0	-6.6	20.0
1,3-Dichloropropane	Ave	0.5530	0.5157		23.3	25.0	-6.7	20.0
2-Hexanone	Ave	0.5834	0.5559	0.1000	119	125	-4.7	20.0
Dibromochloromethane	Ave	0.3549	0.3463	0.1000	24.4	25.0	-2.4	20.0
1,2-Dibromoethane	Ave	0.3425	0.3231		23.6	25.0	-5.6	20.0
Chlorobenzene	Ave	1.035	0.9860	0.5000	23.8	25.0	-4.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3401	0.3492		25.7	25.0	2.7	20.0
Ethylbenzene	Ave	1.668	1.563	0.1000	23.4	25.0	-6.3	20.0
m,p-Xylene	Ave	0.6769	0.6331	0.1000	23.4	25.0	-6.5	20.0
o-Xylene	Ave	0.6534	0.6347	0.3000	24.3	25.0	-2.9	20.0
Styrene	Ave	1.110	1.068	0.3000	24.1	25.0	-3.8	20.0
Bromoform	Ave	0.2271	0.2354	0.1000	25.9	25.0	3.7	50.0
Isopropylbenzene	Ave	3.207	3.062	0.1000	23.9	25.0	-4.5	20.0
Bromobenzene	Ave	0.8310	0.8023		24.1	25.0	-3.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8607	0.8641	0.3000	25.1	25.0	0.4	20.0
1,2,3-Trichloropropane	Ave	0.2786	0.2582		23.2	25.0	-7.3	20.0
N-Propylbenzene	Ave	3.661	3.608		24.6	25.0	-1.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4481	0.4244		23.7	25.0	-5.3	50.0
2-Chlorotoluene	Ave	0.7907	0.7378		23.3	25.0	-6.7	20.0
1,3,5-Trimethylbenzene	Ave	2.641	2.556		24.2	25.0	-3.2	20.0
4-Chlorotoluene	Ave	2.545	2.417		23.7	25.0	-5.0	20.0
tert-Butylbenzene	Ave	0.5991	0.5959		24.9	25.0	-0.5	20.0
1,2,4-Trimethylbenzene	Ave	2.706	2.638		24.4	25.0	-2.5	20.0
sec-Butylbenzene	Ave	3.370	3.245		24.1	25.0	-3.7	20.0
1,3-Dichlorobenzene	Ave	1.595	1.539	0.6000	24.1	25.0	-3.5	20.0
4-Isopropyltoluene	Ave	3.006	2.996		24.9	25.0	-0.3	20.0
1,4-Dichlorobenzene	Ave	1.620	1.513	0.5000	23.4	25.0	-6.6	20.0
n-Butylbenzene	Ave	2.496	2.443		24.5	25.0	-2.1	20.0
1,2-Dichlorobenzene	Ave	1.505	1.478	0.4000	24.6	25.0	-1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401795/3 Calibration Date: 02/28/2018 09:07
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7368.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1397	0.1591	0.0500	28.5	25.0	13.9	50.0
1,2,4-Trichlorobenzene	Ave	0.9390	0.9123	0.2000	24.3	25.0	-2.8	20.0
Hexachlorobutadiene	Ave	0.4527	0.4354		24.0	25.0	-3.8	20.0
Naphthalene	Ave	2.470	2.601		26.3	25.0	5.3	20.0
1,2,3-Trichlorobenzene	Ave	0.8024	0.8032		25.0	25.0	0.0	20.0
Dibromofluoromethane (Surr)	Ave	1.120	1.132		25.3	25.0	1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.544	1.547		25.0	25.0	0.2	20.0
Toluene-d8 (Surr)	Ave	1.225	1.196		24.4	25.0	-2.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3896	0.4029		25.9	25.0	3.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7368.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Feb-2018 09:07:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0069548-003
 Operator ID: AM Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Feb-2018 09:41:20 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: farrellr

Date: 28-Feb-2018 09:41:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	185318	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	707191	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	94	372649	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	91	209855	25.0	25.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	286670	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	846139	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	89	284927	25.0	25.9	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	262364	25.0	27.2	
13 Chloromethane	50	1.507	1.507	0.000	99	572759	25.0	24.5	
14 Vinyl chloride	62	1.586	1.586	0.000	98	379148	25.0	23.1	
144 Butadiene	54	1.616	1.616	0.000	93	404356	25.0	22.4	
15 Bromomethane	94	1.896	1.896	0.000	91	185780	25.0	23.5	
16 Chloroethane	64	1.987	1.987	0.000	96	205878	25.0	23.5	
17 Dichlorofluoromethane	67	2.188	2.188	0.000	93	427178	25.0	22.9	
18 Trichlorofluoromethane	101	2.200	2.200	0.000	92	352211	25.0	24.8	
19 Ethyl ether	59	2.486	2.486	0.000	93	311895	25.0	22.8	
20 Acrolein	56	2.638	2.638	0.000	100	324551	125.0	97.9	
22 1,1-Dichloroethene	96	2.687	2.687	0.000	90	202875	25.0	24.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.000	47	200656	25.0	26.8	
23 Acetone	43	2.790	2.790	0.000	98	544227	125.0	86.2	
24 Iodomethane	142	2.839	2.839	0.000	99	348885	25.0	23.3	
25 Carbon disulfide	76	2.888	2.888	0.000	98	643543	25.0	24.4	
27 3-Chloro-1-propene	41	3.046	3.046	0.000	88	669728	25.0	23.5	
28 Methyl acetate	43	3.088	3.088	0.000	99	744461	50.0	43.1	
30 Methylene Chloride	84	3.180	3.180	0.000	89	247914	25.0	24.0	
31 2-Methyl-2-propanol	59	3.344	3.344	0.000	97	320091	250.0	173.8	
32 Methyl tert-butyl ether	73	3.411	3.411	0.000	93	730459	25.0	23.0	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	89	227361	25.0	23.6	
34 Acrylonitrile	53	3.435	3.435	0.000	99	1862031	250.0	229.4	
35 Hexane	57	3.630	3.630	0.000	96	571582	25.0	27.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.818	3.818	0.000	96	507173	25.0	23.8	
39 Vinyl acetate	43	3.873	3.873	0.000	96	2159965	50.0	50.9	
42 2,2-Dichloropropane	77	4.335	4.335	0.000	81	281345	25.0	23.0	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	264845	25.0	24.0	
44 2-Butanone (MEK)	43	4.390	4.390	0.000	96	1167467	125.0	110.3	
47 Chlorobromomethane	128	4.591	4.591	0.000	84	127374	25.0	23.1	
49 Tetrahydrofuran	42	4.621	4.621	0.000	93	324907	50.0	42.6	
50 Chloroform	83	4.664	4.664	0.000	94	390372	25.0	22.3	
51 1,1,1-Trichloroethane	97	4.798	4.798	0.000	96	328381	25.0	23.3	
52 Cyclohexane	56	4.822	4.822	0.000	93	614441	25.0	24.9	
53 Carbon tetrachloride	117	4.944	4.944	0.000	95	280912	25.0	23.8	
54 1,1-Dichloropropene	75	4.950	4.950	0.000	83	303368	25.0	23.0	
56 Isobutyl alcohol	43	5.132	5.132	0.000	96	653265	625.0	615.5	
55 Benzene	78	5.145	5.145	0.000	94	927220	25.0	23.5	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	95	400556	25.0	21.1	
59 n-Heptane	43	5.351	5.351	0.000	96	687619	25.0	29.3	
60 Trichloroethene	95	5.753	5.753	0.000	95	241149	25.0	23.3	
62 Methylcyclohexane	83	5.893	5.893	0.000	93	415339	25.0	26.2	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	88	295216	25.0	24.2	
64 Dibromomethane	93	6.106	6.106	0.000	95	147513	25.0	23.5	
66 1,4-Dioxane	88	6.118	6.118	0.000	86	60849	500.0	514.9	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	307374	25.0	24.0	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	85	224251	25.0	24.7	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	85	365777	25.0	24.6	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	920379	125.0	121.0	
73 Toluene	92	6.982	6.982	0.000	96	589437	25.0	22.3	
75 trans-1,3-Dichloropropene	75	7.243	7.243	0.000	90	341965	25.0	24.2	
77 Ethyl methacrylate	69	7.304	7.304	0.000	88	328923	25.0	23.0	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	180098	25.0	23.6	
79 Tetrachloroethene	166	7.523	7.523	0.000	96	263224	25.0	23.4	
80 1,3-Dichloropropane	76	7.590	7.590	0.000	88	364692	25.0	23.3	
82 2-Hexanone	43	7.663	7.663	0.000	98	1965532	125.0	119.1	
83 Chlorodibromomethane	129	7.827	7.827	0.000	89	244926	25.0	24.4	
84 Ethylene Dibromide	107	7.931	7.931	0.000	98	228513	25.0	23.6	
85 Chlorobenzene	112	8.418	8.418	0.000	93	697315	25.0	23.8	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	93	246928	25.0	25.7	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1105605	25.0	23.4	
90 m-Xylene & p-Xylene	106	8.649	8.649	0.000	0	447697	25.0	23.4	
91 o-Xylene	106	9.069	9.069	0.000	97	448852	25.0	24.3	
92 Styrene	104	9.093	9.093	0.000	93	755101	25.0	24.1	
93 Bromoform	173	9.324	9.324	0.000	96	166454	25.0	25.9	
95 Isopropylbenzene	105	9.458	9.458	0.000	96	1141093	25.0	23.9	
97 Bromobenzene	156	9.792	9.792	0.000	90	298971	25.0	24.1	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	0.000	96	322001	25.0	25.1	
99 1,2,3-Trichloropropane	110	9.859	9.859	0.000	93	96214	25.0	23.2	
100 N-Propylbenzene	91	9.884	9.884	0.000	98	1344515	25.0	24.6	
101 trans-1,4-Dichloro-2-buten	53	9.884	9.884	0.000	81	158150	25.0	23.7	
102 2-Chlorotoluene	126	9.981	9.981	0.000	96	274957	25.0	23.3	
104 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	96	952635	25.0	24.2	
105 4-Chlorotoluene	91	10.097	10.097	0.000	98	900650	25.0	23.7	
106 tert-Butylbenzene	134	10.389	10.389	0.000	95	222075	25.0	24.9	
108 1,2,4-Trimethylbenzene	105	10.437	10.437	0.000	97	982950	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.595	10.595	0.000	95	1209072	25.0	24.1	
110 1,3-Dichlorobenzene	146	10.723	10.723	0.000	98	573527	25.0	24.1	
111 4-Isopropyltoluene	119	10.741	10.741	0.000	98	1116486	25.0	24.9	
113 1,4-Dichlorobenzene	146	10.808	10.808	0.000	95	563909	25.0	23.4	
115 n-Butylbenzene	91	11.125	11.125	0.000	98	910506	25.0	24.5	
116 1,2-Dichlorobenzene	146	11.161	11.161	0.000	97	550617	25.0	24.6	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.879	0.000	76	59277	25.0	28.5	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	95	339982	25.0	24.3	
120 Hexachlorobutadiene	225	12.700	12.700	0.000	97	162243	25.0	24.0	
121 Naphthalene	128	12.786	12.786	0.000	97	969095	25.0	26.3	
122 1,2,3-Trichlorobenzene	180	12.986	12.986	0.000	95	299303	25.0	25.0	

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00267	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7368.D

Injection Date: 28-Feb-2018 09:07:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

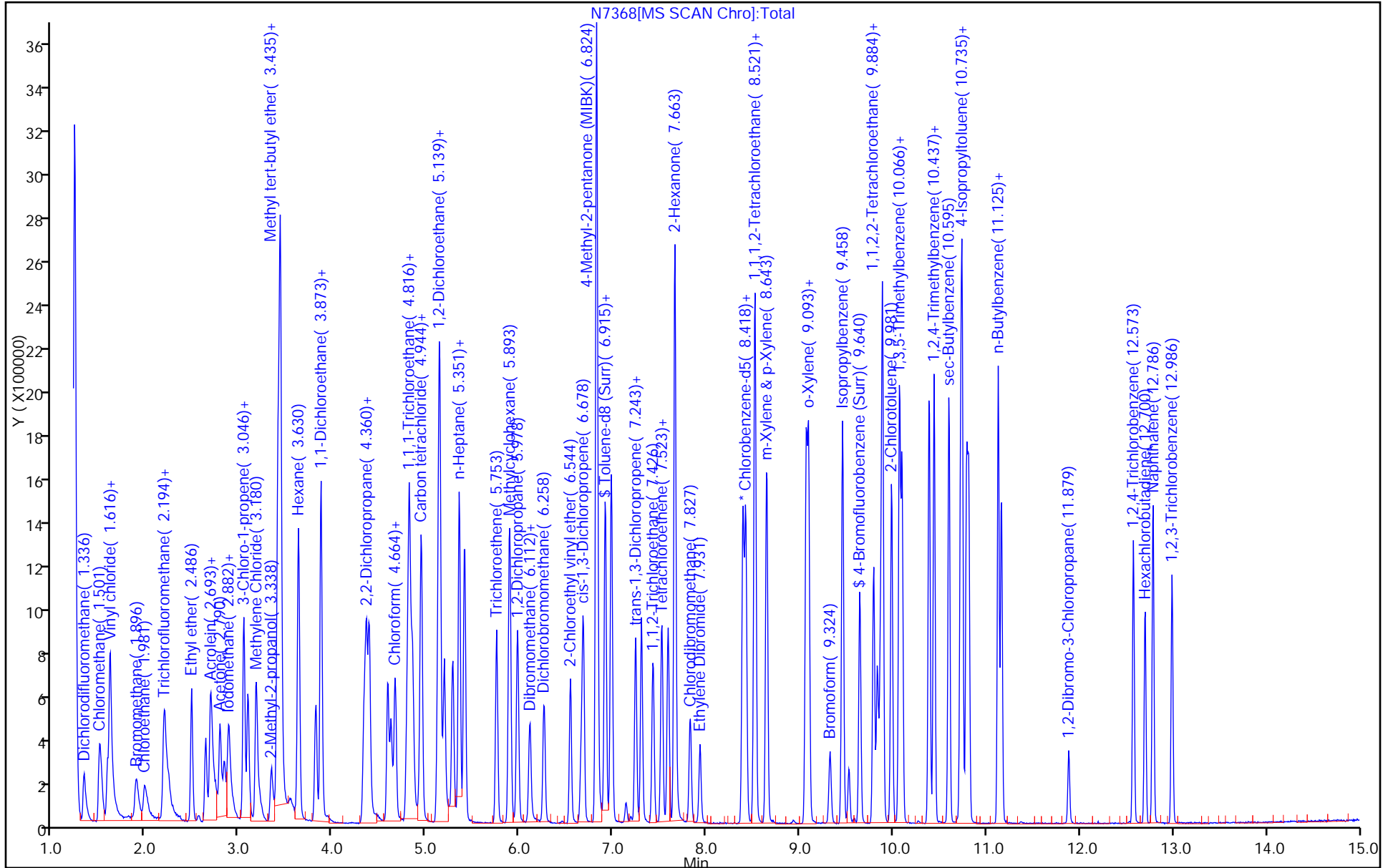
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401795/4 Calibration Date: 02/28/2018 09:34
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 20:53
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 23:35
 Lab File ID: N7369.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	2.391	2.665		27.9	25.0	11.4	20.0
Ethanol	Ave	0.0215	0.0154		715	1000	-28.5*	20.0
Isopropyl alcohol	Ave	0.1466	0.1028		175	250	-29.9*	20.0
Acetonitrile	Ave	0.1966	0.2212		281	250	12.5	20.0
Isopropyl ether	Ave	8.384	8.938		26.7	25.0	6.6	20.0
Chloroprene	Ave	3.360	3.918		29.1	25.0	16.6	20.0
1,1-Dimethoxyethane	Ave	0.3103	0.3533		142	125	13.8	20.0
Tert-butyl ethyl ether	Ave	6.431	6.752		26.2	25.0	5.0	20.0
Ethyl acetate	Ave	2.877	3.226		56.1	50.0	12.1	20.0
Propionitrile	Ave	0.3707	0.3950		266	250	6.6	20.0
Methacrylonitrile	Ave	0.6963	0.7666		275	250	10.1	20.0
Isooctane	Ave	6.671	9.048		33.9	25.0	35.6*	20.0
t-Amyl alcohol	Ave	0.2290	0.2309		252	250	0.8	20.0
Tert-amyl methyl ether	Ave	4.899	5.237		26.7	25.0	6.9	20.0
1,4-Difluorobenzene	Ave	3.938	4.417		28.0	25.0	12.2	20.0
n-Butanol	Ave	0.0723	0.0702		607	625	-2.9	20.0
Ethyl acrylate	Ave	3.223	3.584		27.8	25.0	11.2	20.0
Methyl methacrylate	Ave	2.414	2.678		55.5	50.0	11.0	20.0
2-Nitropropane	Ave	0.3384	0.3981		58.8	50.0	17.6	20.0
Epichlorohydrin	Ave	0.2455	0.2861		291	250	16.5	20.0
2-Methylthiophene	Ave	2.211	2.398		27.1	25.0	8.4	20.0
3-Methylthiophene	Ave	2.366	2.322		24.5	25.0	-1.9	20.0
n-Butyl acetate	Ave	1.259	1.212	0.1000	24.1	25.0	-3.7	20.0
1-Chlorohexane	Ave	0.5933	0.5934		25.0	25.0	0.0	20.0
3-Chlorobenzotrifluoride	Ave	0.9745	1.192		30.6	25.0	22.3*	20.0
4-Chlorobenzotrifluoride	Ave	0.9042	1.081		29.9	25.0	19.5	20.0
2-Chlorobenzotrifluoride	Ave	1.035	1.183		28.6	25.0	14.3	20.0
Cyclohexanone	Ave	0.0474	0.0540		285	250	13.9	20.0
3-Chlorotoluene	Ave	0.7760	0.8712		28.1	25.0	12.3	20.0
Pentachloroethane	Ave	0.2263	0.4816		53.2	25.0	112.8*	20.0
Dicyclopentadiene	Ave	3.588	3.800		26.5	25.0	5.9	20.0
1,2,3-Trimethylbenzene	Ave	2.609	2.881		27.6	25.0	10.4	20.0
Benzyl chloride	Lin1		0.1830		31.7	25.0	26.9*	20.0
1,3,5-Trichlorobenzene	Ave	1.001	1.113		27.8	25.0	11.2	20.0
2-Methylnaphthalene	Ave	1.023	1.128		27.6	25.0	10.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7369.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Feb-2018 09:34:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0069548-004
 Operator ID: AM Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub71
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Feb-2018 09:56:27 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: farrellr

Date: 28-Feb-2018 09:56:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	181213	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	723114	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	96	367866	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	206326	25.0	25.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	288911	25.0	25.8	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	839585	25.0	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.633	0.000	91	279904	25.0	24.8	
12 Chlorodifluoromethane	51	1.349	1.348	0.001	97	482942	25.0	27.9	
141 Ethanol	45	2.462	2.456	0.006	99	111504	1000.0	714.6	
81 Propene oxide	58	2.553	2.547	0.006	95	581684	NC	NC	
26 Isopropyl alcohol	45	2.967	2.960	0.007	99	186239	250.0	175.3	
29 Acetonitrile	40	3.064	3.058	0.006	99	400781	250.0	281.3	
37 Isopropyl ether	45	3.849	3.849	0.000	97	1619596	25.0	26.7	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	90	709953	25.0	29.1	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	96	320078	125.0	142.3	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	96	1223485	25.0	26.2	
45 Ethyl acetate	43	4.433	4.427	0.006	99	1169113	50.0	56.1	
46 Propionitrile	54	4.463	4.463	0.000	99	715780	250.0	266.4	
48 Methacrylonitrile	67	4.585	4.585	0.000	96	1389110	250.0	275.2	
146 Isooctane	57	5.169	5.169	0.000	96	1639528	25.0	33.9	
140 t-Amyl alcohol	59	5.199	5.193	0.006	82	418428	250.0	252.0	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	89	949034	25.0	26.7	
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	97	800487	25.0	28.0	
61 n-Butanol	56	5.753	5.747	0.006	96	318134	625.0	606.7	
145 Ethyl acrylate	55	5.869	5.862	0.007	98	649379	25.0	27.8	
65 Methyl methacrylate	41	6.082	6.082	0.001	88	970580	50.0	55.5	
68 2-Nitropropane	43	6.489	6.489	0.000	99	292908	50.0	58.8	
70 Epichlorohydrin	57	6.623	6.617	0.006	99	518471	250.0	291.3	
74 2-Methylthiophene	97	7.116	7.110	0.007	98	881968	25.0	27.1	
76 3-Methylthiophene	97	7.280	7.274	0.006	99	854151	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
149 n-Butyl acetate	43	7.785	7.779	0.000	97	876510	25.0	24.1	
139 1-Chlorohexane	55	8.381	8.375	0.000	82	429117	25.0	25.0	
86 3-Chlorobenzotrifluoride	180	8.399	8.393	0.006	92	438565	25.0	30.6	
87 4-Chlorobenzotrifluoride	180	8.454	8.460	-0.006	96	397503	25.0	29.9	
94 2-Chlorobenzotrifluoride	180	9.373	9.367	0.007	97	435137	25.0	28.6	
96 Cyclohexanone	55	9.598	9.592	0.006	94	198680	250.0	284.8	
103 3-Chlorotoluene	126	10.048	10.048	0.000	96	320469	25.0	28.1	
107 Pentachloroethane	167	10.431	10.431	0.000	87	177179	25.0	53.2	
112 Dicyclopentadiene	66	10.802	10.802	0.000	98	1397758	25.0	26.5	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	1059706	25.0	27.6	
143 Benzyl chloride	126	10.948	10.940	0.000	99	132320	25.0	31.7	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	97	409393	25.0	27.8	
142 2-Methylnaphthalene	142	13.704	13.704	0.000	93	414793	25.0	27.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00071	Amount Added: 12.50	Units: uL	
3MTP_WRK_00072	Amount Added: 12.50	Units: uL	
ADD CORP mix_00068	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7369.D

Injection Date: 28-Feb-2018 09:34:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

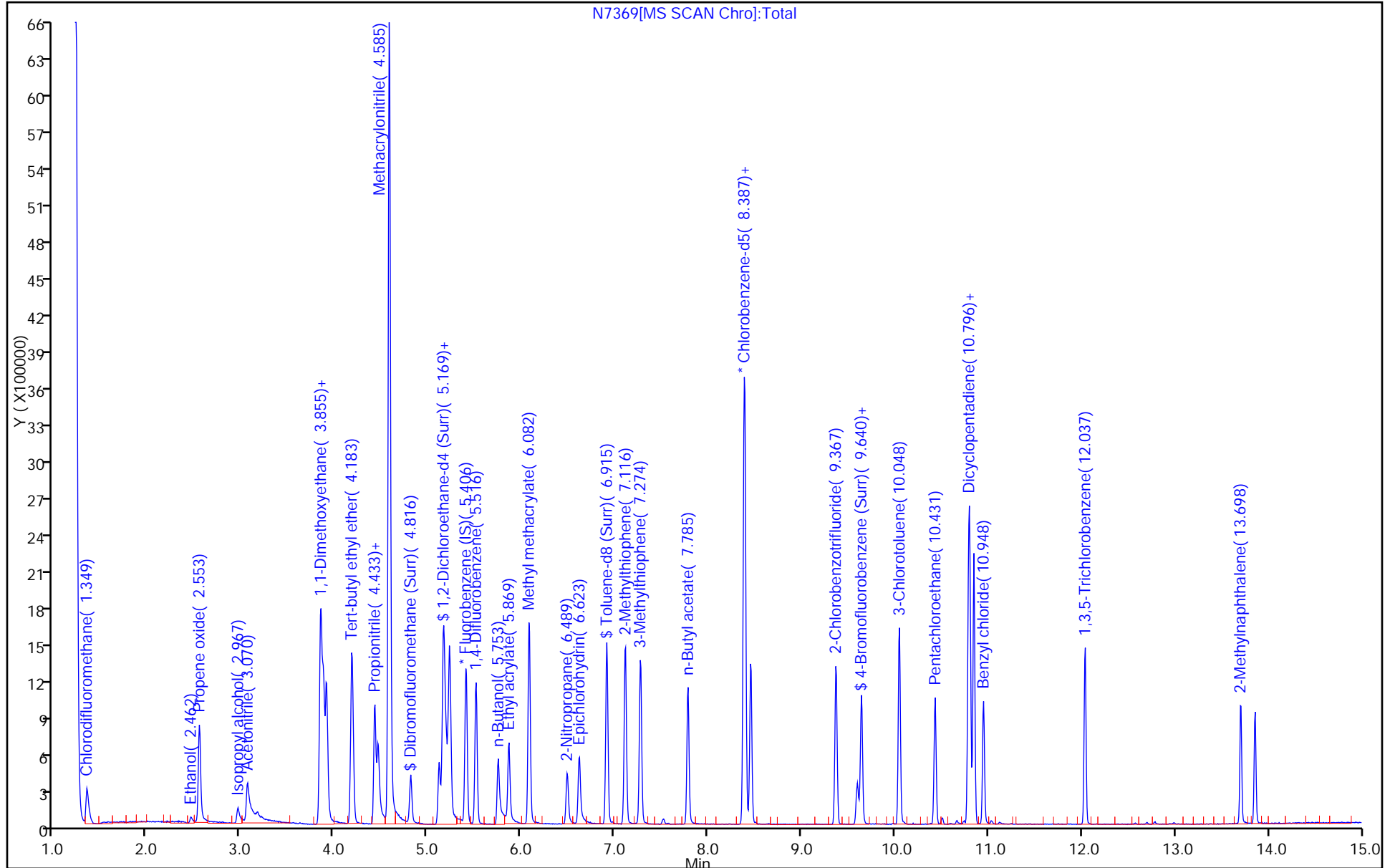
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401795/4 Calibration Date: 02/28/2018 09:34
 Instrument ID: HP5973N Calib Start Date: 01/31/2018 15:32
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/31/2018 18:40
 Lab File ID: N7369.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	1.120	1.139		25.4	25.0	1.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.544	1.594		25.8	25.0	3.2	20.0
Toluene-d8 (Surr)	Ave	1.225	1.161		23.7	25.0	-5.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3896	0.3871		24.8	25.0	-0.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7369.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Feb-2018 09:34:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0069548-004
 Operator ID: AM Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub71
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Feb-2018 09:56:27 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: farrellr

Date: 28-Feb-2018 09:56:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	181213	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	723114	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	96	367866	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	93	206326	25.0	25.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	288911	25.0	25.8	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	839585	25.0	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.633	0.000	91	279904	25.0	24.8	
12 Chlorodifluoromethane	51	1.349	1.348	0.001	97	482942	25.0	27.9	
141 Ethanol	45	2.462	2.456	0.006	99	111504	1000.0	714.6	
81 Propene oxide	58	2.553	2.547	0.006	95	581684	NC	NC	
26 Isopropyl alcohol	45	2.967	2.960	0.007	99	186239	250.0	175.3	
29 Acetonitrile	40	3.064	3.058	0.006	99	400781	250.0	281.3	
37 Isopropyl ether	45	3.849	3.849	0.000	97	1619596	25.0	26.7	
38 2-Chloro-1,3-butadiene	53	3.879	3.879	0.000	90	709953	25.0	29.1	
40 1,1-Dimethoxyethane	75	3.910	3.910	0.000	96	320078	125.0	142.3	
41 Tert-butyl ethyl ether	59	4.183	4.183	0.000	96	1223485	25.0	26.2	
45 Ethyl acetate	43	4.433	4.427	0.006	99	1169113	50.0	56.1	
46 Propionitrile	54	4.463	4.463	0.000	99	715780	250.0	266.4	
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140 t-Amyl alcohol	59	5.199	5.193	0.006	82	418428	250.0	252.0	
58 Tert-amyl methyl ether	73	5.230	5.230	0.000	89	949034	25.0	26.7	
1 1,4-Difluorobenzene	114	5.516	5.516	0.000	97	800487	25.0	28.0	
61 n-Butanol	56	5.753	5.747	0.006	96	318134	625.0	606.7	
145 Ethyl acrylate	55	5.869	5.862	0.007	98	649379	25.0	27.8	
65 Methyl methacrylate	41	6.082	6.082	0.001	88	970580	50.0	55.5	
68 2-Nitropropane	43	6.489	6.489	0.000	99	292908	50.0	58.8	
70 Epichlorohydrin	57	6.623	6.617	0.006	99	518471	250.0	291.3	
74 2-Methylthiophene	97	7.116	7.110	0.007	98	881968	25.0	27.1	
76 3-Methylthiophene	97	7.280	7.274	0.006	99	854151	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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139 1-Chlorohexane	55	8.381	8.375	0.000	82	429117	25.0	25.0	
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87 4-Chlorobenzotrifluoride	180	8.454	8.460	-0.006	96	397503	25.0	29.9	
94 2-Chlorobenzotrifluoride	180	9.373	9.367	0.007	97	435137	25.0	28.6	
96 Cyclohexanone	55	9.598	9.592	0.006	94	198680	250.0	284.8	
103 3-Chlorotoluene	126	10.048	10.048	0.000	96	320469	25.0	28.1	
107 Pentachloroethane	167	10.431	10.431	0.000	87	177179	25.0	53.2	
112 Dicyclopentadiene	66	10.802	10.802	0.000	98	1397758	25.0	26.5	
114 1,2,3-Trimethylbenzene	105	10.845	10.845	0.000	98	1059706	25.0	27.6	
143 Benzyl chloride	126	10.948	10.940	0.000	99	132320	25.0	31.7	
118 1,3,5-Trichlorobenzene	180	12.037	12.037	0.000	97	409393	25.0	27.8	
142 2-Methylnaphthalene	142	13.704	13.704	0.000	93	414793	25.0	27.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

2MTP_WRK_00071	Amount Added: 12.50	Units: uL	
3MTP_WRK_00072	Amount Added: 12.50	Units: uL	
ADD CORP mix_00068	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7369.D

Injection Date: 28-Feb-2018 09:34:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

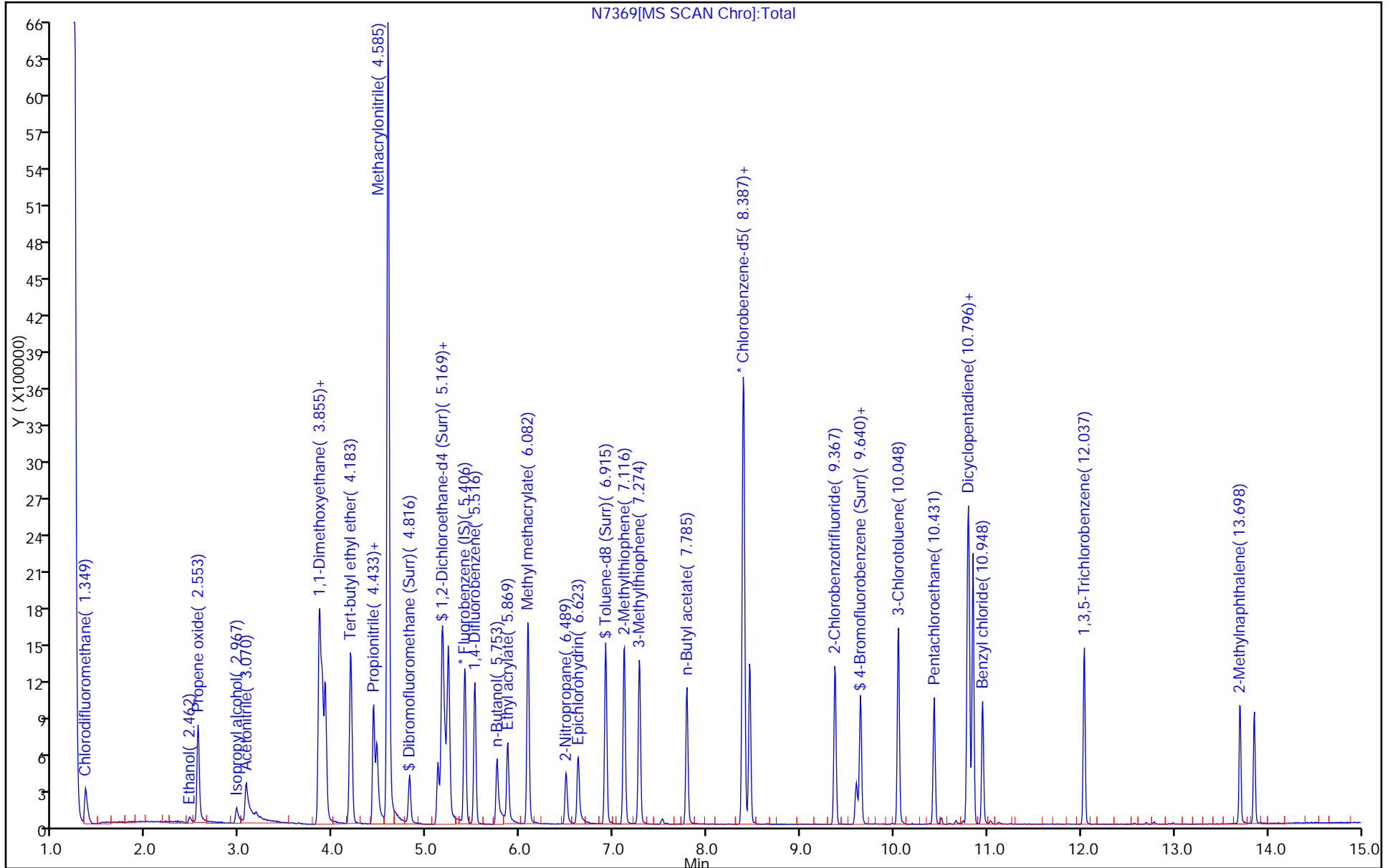
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401358/3 Calibration Date: 02/25/2018 09:15
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S7852.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.336	1.407	0.1000	26.3	25.0	5.3	50.0
Chloromethane	Ave	1.379	1.350	0.1000	24.5	25.0	-2.1	20.0
Vinyl chloride	Ave	1.450	1.592	0.1000	27.5	25.0	9.8	20.0
Butadiene	Ave	1.441	1.384		24.0	25.0	-4.0	20.0
Bromomethane	Ave	1.091	1.133	0.1000	26.0	25.0	3.9	50.0
Chloroethane	Lin1		1.054	0.1000	29.2	25.0	16.7	50.0
Dichlorofluoromethane	Ave	2.197	2.345		26.7	25.0	6.7	20.0
Trichlorofluoromethane	Ave	1.735	1.888	0.1000	27.2	25.0	8.8	20.0
Ethyl ether	Ave	1.032	1.141		27.7	25.0	10.6	20.0
Acrolein	Ave	0.2449	0.2461		126	125	0.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.999	1.000	0.1000	25.0	25.0	0.1	20.0
1,1-Dichloroethene	Ave	1.048	1.051	0.1000	25.1	25.0	0.3	20.0
Acetone	Ave	0.4813	0.5116	0.1000	133	125	6.3	50.0
Iodomethane	Ave	1.954	2.046		26.2	25.0	4.7	20.0
Carbon disulfide	Ave	3.563	3.141	0.1000	22.0	25.0	-11.8	20.0
Allyl chloride	Ave	1.627	1.495		23.0	25.0	-8.1	20.0
Methyl acetate	Lin1		0.9206	0.1000	53.1	50.0	6.1	50.0
Methylene Chloride	Ave	1.374	1.348	0.1000	24.5	25.0	-2.0	20.0
2-Methyl-2-propanol	Ave	0.1097	0.1199		273	250	9.3	50.0
Methyl tert-butyl ether	Ave	4.056	4.132	0.1000	25.5	25.0	1.9	20.0
trans-1,2-Dichloroethene	Ave	1.276	1.253	0.1000	24.6	25.0	-1.8	20.0
Acrylonitrile	Ave	0.4564	0.5039		276	250	10.4	20.0
Hexane	Ave	1.692	1.685		24.9	25.0	-0.4	20.0
1,1-Dichloroethane	Ave	2.004	2.055	0.2000	25.6	25.0	2.5	20.0
Vinyl acetate	Ave	2.300	2.511		54.6	50.0	9.2	20.0
2,2-Dichloropropane	Ave	1.663	1.551		23.3	25.0	-6.8	20.0
cis-1,2-Dichloroethene	Ave	1.459	1.453	0.1000	24.9	25.0	-0.4	20.0
2-Butanone (MEK)	Ave	0.6025	0.6371	0.1000	132	125	5.7	20.0
Chlorobromomethane	Ave	0.7395	0.7397		25.0	25.0	0.0	20.0
Tetrahydrofuran	Ave	0.3937	0.4115		52.3	50.0	4.5	20.0
Chloroform	Ave	2.182	2.194	0.2000	25.1	25.0	0.5	20.0
1,1,1-Trichloroethane	Ave	1.880	1.739	0.1000	23.1	25.0	-7.5	20.0
Cyclohexane	Ave	1.744	1.696	0.1000	24.3	25.0	-2.7	20.0
Carbon tetrachloride	Ave	1.700	1.594	0.1000	23.4	25.0	-6.3	20.0
1,1-Dichloropropene	Ave	1.683	1.703		25.3	25.0	1.2	20.0
Benzene	Ave	5.178	5.274	0.5000	25.5	25.0	1.9	20.0
Isobutyl alcohol	Ave	0.0605	0.0637		658	625	5.2	50.0
1,2-Dichloroethane	Ave	1.695	1.759	0.1000	25.9	25.0	3.8	20.0
n-Heptane	Ave	1.692	1.627		24.0	25.0	-3.8	20.0
Trichloroethene	Ave	1.363	1.329	0.2000	24.4	25.0	-2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401358/3 Calibration Date: 02/25/2018 09:15
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S7852.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.192	2.159	0.1000	24.6	25.0	-1.5	20.0
1,2-Dichloropropane	Ave	1.179	1.219	0.1000	25.8	25.0	3.4	20.0
Dibromomethane	Ave	0.8355	0.8776	0.1000	26.3	25.0	5.0	20.0
1,4-Dioxane	Lin1		0.0088		531	500	6.3	50.0
Bromodichloromethane	Ave	1.665	1.616	0.2000	24.3	25.0	-2.9	20.0
2-Chloroethyl vinyl ether	Ave	0.7902	0.8847		28.0	25.0	12.0	20.0
cis-1,3-Dichloropropene	Ave	1.961	2.003	0.2000	25.5	25.0	2.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5896	0.6234	0.1000	132	125	5.7	20.0
Toluene	Ave	1.654	1.597	0.4000	24.1	25.0	-3.4	20.0
trans-1,3-Dichloropropene	Ave	0.8706	0.8711	0.1000	25.0	25.0	0.0	20.0
Ethyl methacrylate	Ave	0.8769	0.8457		24.1	25.0	-3.6	20.0
1,1,2-Trichloroethane	Ave	0.4717	0.4780	0.1000	25.3	25.0	1.3	20.0
Tetrachloroethene	Ave	0.7620	0.7317	0.2000	24.0	25.0	-4.0	20.0
1,3-Dichloropropane	Ave	0.9863	1.028		26.1	25.0	4.2	20.0
2-Hexanone	Ave	0.4505	0.4577	0.1000	127	125	1.6	20.0
Dibromochloromethane	Ave	0.6333	0.5935	0.1000	23.4	25.0	-6.3	20.0
1,2-Dibromoethane	Ave	0.6092	0.6247		25.6	25.0	2.5	20.0
Chlorobenzene	Ave	1.858	1.860	0.5000	25.0	25.0	0.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6502	0.6254		24.0	25.0	-3.8	20.0
Ethylbenzene	Ave	3.044	2.899	0.1000	23.8	25.0	-4.8	20.0
m,p-Xylene	Ave	1.260	1.175	0.1000	23.3	25.0	-6.8	20.0
o-Xylene	Ave	1.179	1.148	0.3000	24.3	25.0	-2.7	20.0
Styrene	Ave	2.025	1.938	0.3000	23.9	25.0	-4.3	20.0
Bromoform	Ave	0.4210	0.3715	0.1000	22.1	25.0	-11.8	50.0
Isopropylbenzene	Ave	2.886	2.674	0.1000	23.2	25.0	-7.4	20.0
Bromobenzene	Ave	0.7866	0.7718		24.5	25.0	-1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7245	0.7356	0.3000	25.4	25.0	1.5	20.0
1,2,3-Trichloropropane	Ave	0.2585	0.2586		25.0	25.0	0.0	20.0
N-Propylbenzene	Ave	3.264	3.125		23.9	25.0	-4.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1441	0.1719		29.8	25.0	19.3	50.0
2-Chlorotoluene	Ave	0.7124	0.6850		24.0	25.0	-3.8	20.0
1,3,5-Trimethylbenzene	Ave	2.439	2.344		24.0	25.0	-3.9	20.0
4-Chlorotoluene	Ave	0.7278	0.7132		24.5	25.0	-2.0	20.0
tert-Butylbenzene	Ave	0.5833	0.5614		24.1	25.0	-3.8	20.0
1,2,4-Trimethylbenzene	Ave	2.494	2.426		24.3	25.0	-2.7	20.0
sec-Butylbenzene	Ave	3.084	2.986		24.2	25.0	-3.2	20.0
1,3-Dichlorobenzene	Ave	1.487	1.444	0.6000	24.3	25.0	-2.9	20.0
4-Isopropyltoluene	Ave	2.711	2.645		24.4	25.0	-2.4	20.0
1,4-Dichlorobenzene	Ave	1.549	1.508	0.5000	24.3	25.0	-2.7	20.0
n-Butylbenzene	Ave	2.351	2.318		24.7	25.0	-1.4	20.0
1,2-Dichlorobenzene	Ave	1.428	1.394	0.4000	24.4	25.0	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-401358/3 Calibration Date: 02/25/2018 09:15
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S7852.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Lin1		0.1299	0.0500	22.2	25.0	-11.1	50.0
1,2,4-Trichlorobenzene	Ave	1.093	1.069	0.2000	24.5	25.0	-2.2	20.0
Hexachlorobutadiene	Ave	0.5240	0.4635		22.1	25.0	-11.5	20.0
Naphthalene	Ave	2.749	2.653		24.1	25.0	-3.5	20.0
1,2,3-Trichlorobenzene	Ave	1.036	1.003		24.2	25.0	-3.2	20.0
Dibromofluoromethane (Surr)	Ave	1.271	1.326		26.1	25.0	4.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7690	0.7899		25.7	25.0	2.7	20.0
Toluene-d8 (Surr)	Ave	2.497	2.523		25.3	25.0	1.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8692	0.8621		24.8	25.0	-0.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7852.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 25-Feb-2018 09:15:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0069476-003
 Operator ID: AM Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 09:52:49 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata

Date: 25-Feb-2018 09:52:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.412	5.412	0.000	99	135557	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.406	8.406	0.000	83	292916	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	90	318534	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.828	0.000	80	179736	25.0	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.139	5.139	0.000	0	107078	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	91	739097	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	95	252536	25.0	24.8	
10 Dichlorodifluoromethane	85	1.245	1.245	0.000	97	190750	25.0	26.3	
12 Chloromethane	50	1.416	1.416	0.000	87	182980	25.0	24.5	
13 Vinyl chloride	62	1.501	1.501	0.000	79	215847	25.0	27.5	
151 Butadiene	54	1.525	1.525	0.000	90	187580	25.0	24.0	
14 Bromomethane	94	1.817	1.817	0.000	90	153527	25.0	26.0	
15 Chloroethane	64	1.896	1.896	0.000	94	142922	25.0	29.2	
16 Dichlorofluoromethane	67	2.115	2.115	0.000	97	317861	25.0	26.7	
17 Trichlorofluoromethane	101	2.127	2.127	0.000	86	255940	25.0	27.2	M
18 Ethyl ether	59	2.432	2.432	0.000	85	154717	25.0	27.7	
20 Acrolein	56	2.602	2.602	0.000	96	166831	125.0	125.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.626	2.626	0.000	84	135529	25.0	25.0	M
22 1,1-Dichloroethene	96	2.638	2.638	0.000	84	142500	25.0	25.1	
23 Acetone	43	2.766	2.766	0.000	99	346777	125.0	132.9	
25 Iodomethane	142	2.797	2.797	0.000	99	277372	25.0	26.2	
26 Carbon disulfide	76	2.839	2.839	0.000	98	425776	25.0	22.0	
28 3-Chloro-1-propene	41	3.016	3.016	0.000	87	202629	25.0	23.0	
27 Methyl acetate	43	3.064	3.064	0.000	94	249579	50.0	53.1	
30 Methylene Chloride	84	3.155	3.155	0.000	80	182665	25.0	24.5	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	96	162534	250.0	273.2	
32 Methyl tert-butyl ether	73	3.381	3.381	0.000	87	560071	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.387	3.387	0.000	66	169874	25.0	24.6	
33 Acrylonitrile	53	3.435	3.435	0.000	99	683044	250.0	276.0	
35 Hexane	57	3.593	3.593	0.000	89	228452	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.806	3.806	0.000	85	278533	25.0	25.6	
37 Vinyl acetate	43	3.867	3.867	0.000	96	680801	50.0	54.6	
44 2,2-Dichloropropane	77	4.330	4.330	0.000	90	210209	25.0	23.3	
45 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	64	196954	25.0	24.9	
43 2-Butanone (MEK)	43	4.403	4.403	0.000	92	431822	125.0	132.2	
48 Chlorobromomethane	128	4.597	4.597	0.000	82	100276	25.0	25.0	
49 Tetrahydrofuran	42	4.628	4.628	0.000	86	111566	50.0	52.3	
50 Chloroform	83	4.670	4.670	0.000	83	297356	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	92	235768	25.0	23.1	
52 Cyclohexane	56	4.804	4.804	0.000	83	229933	25.0	24.3	
55 Carbon tetrachloride	117	4.932	4.932	0.000	80	216023	25.0	23.4	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	97	230869	25.0	25.3	
57 Benzene	78	5.145	5.145	0.000	97	714977	25.0	25.5	
53 Isobutyl alcohol	43	5.157	5.157	0.000	55	215922	625.0	657.8	
58 1,2-Dichloroethane	62	5.206	5.206	0.000	73	238499	25.0	25.9	
59 n-Heptane	43	5.339	5.339	0.000	92	220562	25.0	24.0	
62 Trichloroethene	95	5.759	5.759	0.000	96	180218	25.0	24.4	
64 Methylcyclohexane	83	5.887	5.887	0.000	83	292679	25.0	24.6	
65 1,2-Dichloropropane	63	5.990	5.990	0.000	91	165282	25.0	25.8	
67 Dibromomethane	93	6.130	6.130	0.000	87	118961	25.0	26.3	
66 1,4-Dioxane	88	6.149	6.149	0.000	50	51548	500.0	531.3	
68 Dichlorobromomethane	83	6.282	6.282	0.000	92	219125	25.0	24.3	
69 2-Chloroethyl vinyl ether	63	6.562	6.562	0.000	91	119932	25.0	28.0	
72 cis-1,3-Dichloropropene	75	6.702	6.702	0.000	90	271586	25.0	25.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.842	6.842	0.000	95	912953	125.0	132.2	
74 Toluene	92	6.994	6.994	0.000	94	467898	25.0	24.1	
77 trans-1,3-Dichloropropene	75	7.268	7.268	0.000	86	255152	25.0	25.0	
75 Ethyl methacrylate	69	7.317	7.317	0.000	66	247720	25.0	24.1	
79 1,1,2-Trichloroethane	83	7.457	7.457	0.000	85	140020	25.0	25.3	
81 Tetrachloroethene	166	7.523	7.523	0.000	84	214328	25.0	24.0	
82 1,3-Dichloropropane	76	7.615	7.615	0.000	87	301063	25.0	26.1	
80 2-Hexanone	43	7.682	7.682	0.000	93	670369	125.0	127.0	
83 Chlorodibromomethane	129	7.852	7.852	0.000	88	173853	25.0	23.4	
84 Ethylene Dibromide	107	7.955	7.955	0.000	96	182981	25.0	25.6	
87 Chlorobenzene	112	8.436	8.436	0.000	95	544815	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	8.533	8.533	0.000	40	183183	25.0	24.0	
88 Ethylbenzene	91	8.533	8.533	0.000	98	849058	25.0	23.8	
90 m-Xylene & p-Xylene	106	8.655	8.655	0.000	0	344097	25.0	23.3	
91 o-Xylene	106	9.081	9.081	0.000	96	336272	25.0	24.3	
92 Styrene	104	9.105	9.105	0.000	94	567687	25.0	23.9	
95 Bromoform	173	9.349	9.349	0.000	95	108821	25.0	22.1	
94 Isopropylbenzene	105	9.464	9.464	0.000	95	851701	25.0	23.2	
101 Bromobenzene	156	9.805	9.805	0.000	89	245835	25.0	24.5	
97 1,1,2,2-Tetrachloroethane	83	9.853	9.853	0.000	80	234318	25.0	25.4	
100 1,2,3-Trichloropropane	110	9.884	9.884	0.000	49	82387	25.0	25.0	
99 N-Propylbenzene	91	9.890	9.890	0.000	98	995574	25.0	23.9	
98 trans-1,4-Dichloro-2-buten	53	9.902	9.902	0.000	37	54751	25.0	29.8	
103 2-Chlorotoluene	126	9.993	9.993	0.000	97	218186	25.0	24.0	
102 1,3,5-Trimethylbenzene	105	10.066	10.066	0.000	95	746762	25.0	24.0	
105 4-Chlorotoluene	126	10.103	10.103	0.000	95	227184	25.0	24.5	
106 tert-Butylbenzene	134	10.389	10.389	0.000	89	178811	25.0	24.1	
107 1,2,4-Trimethylbenzene	105	10.444	10.444	0.000	29	772719	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	951124	25.0	24.2	
111 1,3-Dichlorobenzene	146	10.730	10.730	0.000	85	459935	25.0	24.3	
110 4-Isopropyltoluene	119	10.736	10.736	0.000	96	842471	25.0	24.4	
113 1,4-Dichlorobenzene	146	10.815	10.815	0.000	95	480228	25.0	24.3	
115 n-Butylbenzene	91	11.125	11.125	0.000	96	738390	25.0	24.7	
116 1,2-Dichlorobenzene	146	11.168	11.168	0.000	94	443990	25.0	24.4	
117 1,2-Dibromo-3-Chloropropan	75	11.891	11.891	0.000	79	41364	25.0	22.2	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	92	340464	25.0	24.5	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	93	147644	25.0	22.1	
121 Naphthalene	128	12.780	12.780	0.000	97	845193	25.0	24.1	
122 1,2,3-Trichlorobenzene	180	12.987	12.987	0.000	94	319555	25.0	24.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119	Amount Added: 12.50	Units: uL	
GAS CORP mix_00266	Amount Added: 12.50	Units: uL	
S_8260_IS_00282	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00253	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7852.D

Injection Date: 25-Feb-2018 09:15:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

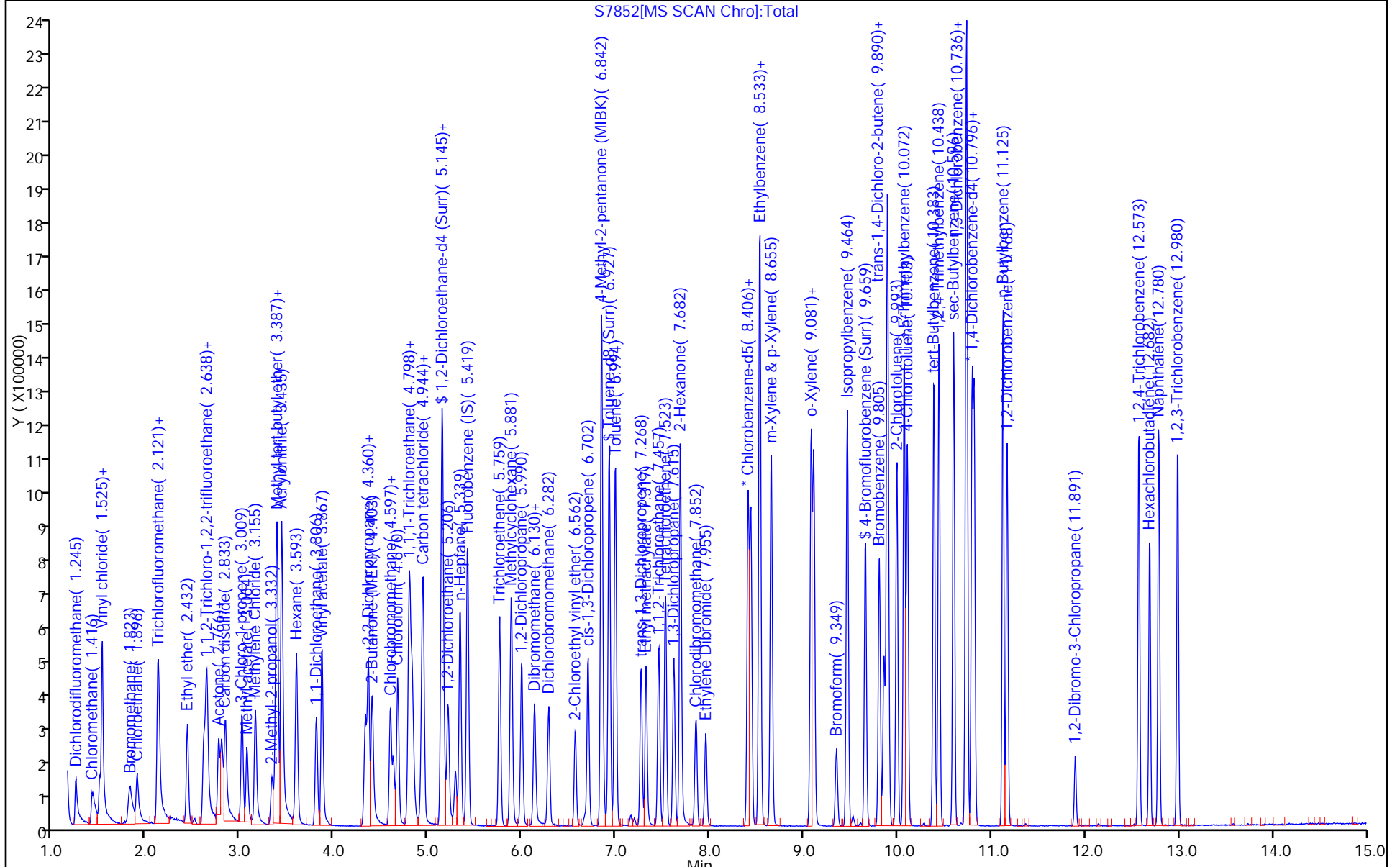
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

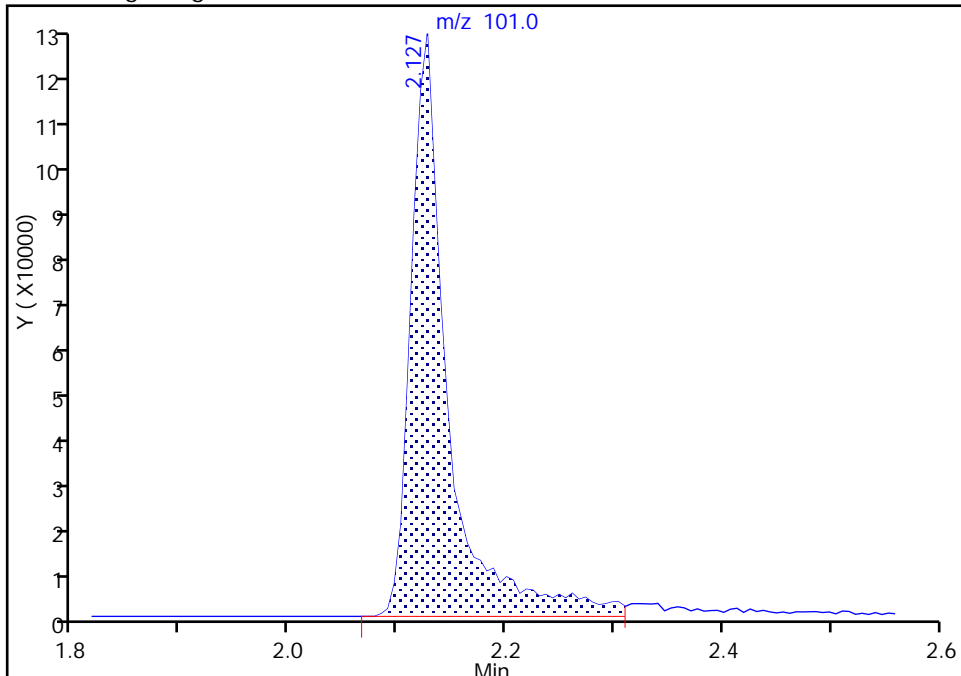
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7852.D
Injection Date: 25-Feb-2018 09:15:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

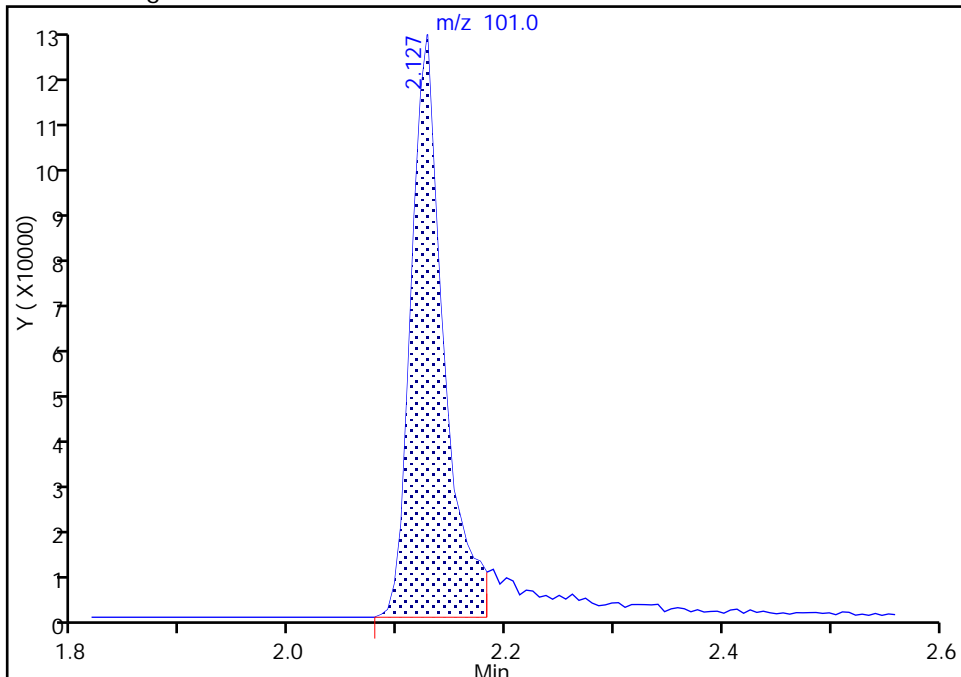
RT: 2.13
Area: 292046
Amount: 31.051362
Amount Units: ug/L

Processing Integration Results



RT: 2.13
Area: 255940
Amount: 27.212444
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 09:49:42
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

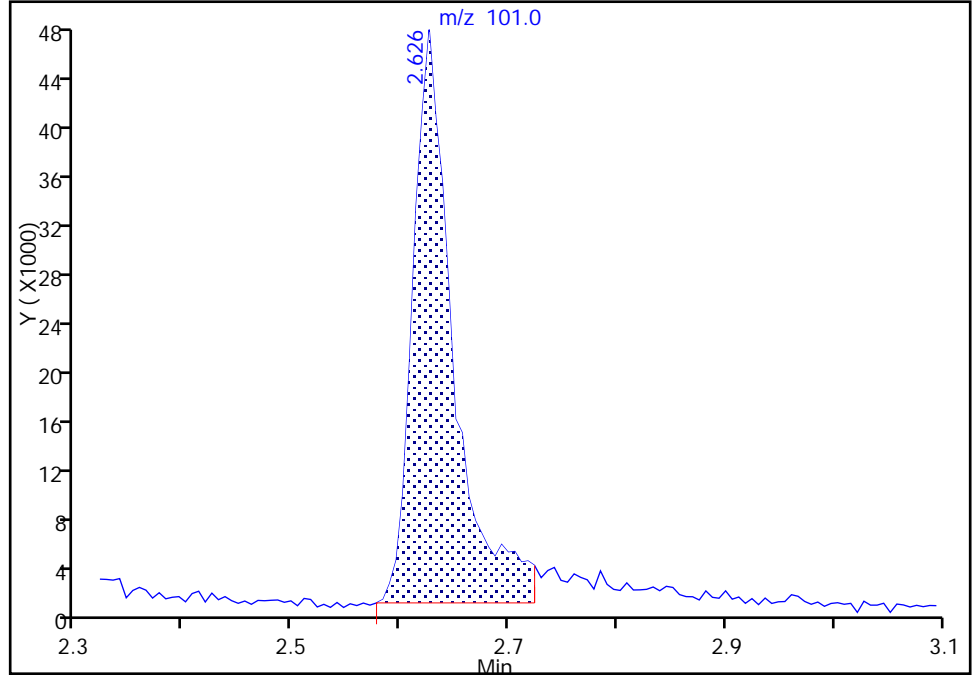
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7852.D
Injection Date: 25-Feb-2018 09:15:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

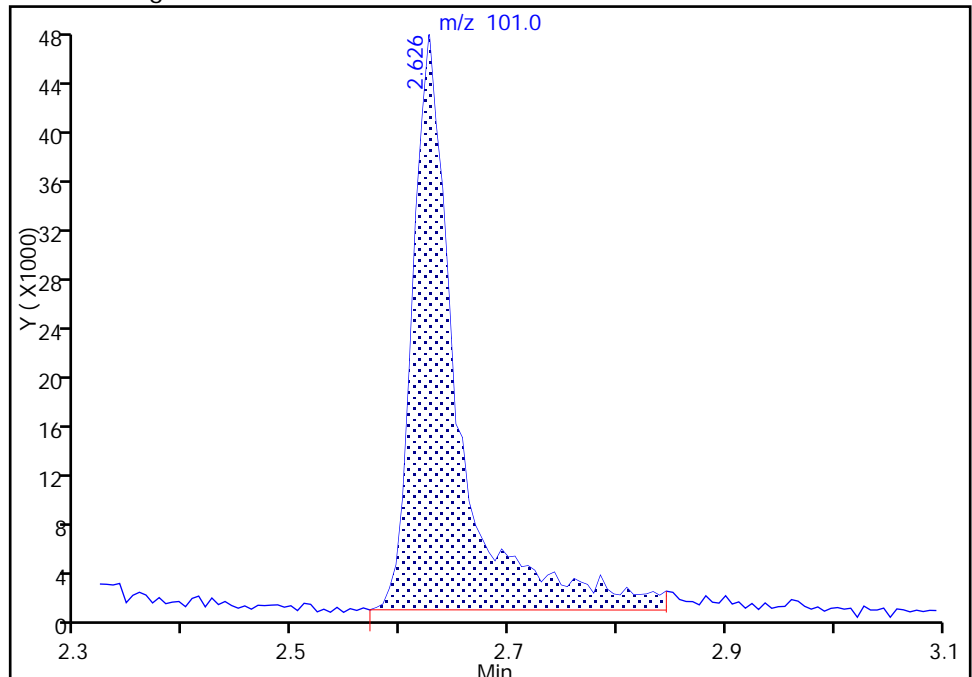
RT: 2.63
Area: 120608
Amount: 22.269527
Amount Units: ug/L

Processing Integration Results



RT: 2.63
Area: 135529
Amount: 25.024598
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 09:50:01
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401358/4 Calibration Date: 02/25/2018 09:38
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 00:42
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 03:24
 Lab File ID: S7853.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	1.271	1.203		23.7	25.0	-5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7690	0.7452		24.2	25.0	-3.1	20.0
Toluene-d8 (Surr)	Ave	2.497	2.512		25.2	25.0	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8692	0.8359		24.0	25.0	-3.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7853.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 25-Feb-2018 09:38:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0069476-004
 Operator ID: AM Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 10:00:57 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata Date: 25-Feb-2018 10:00:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.418	5.412	0.006	99	139827	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.405	8.406	-0.001	83	286894	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	73	298862	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.834	0.000	57	168234	25.0	23.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.139	5.139	0.000	0	104198	25.0	24.2	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	92	720680	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	94	239826	25.0	24.0	
11 Chlorodifluoromethane	51	1.269	1.264	0.005	77	169655	25.0	22.9	
148 Ethanol	45	2.431	2.431	0.005	80	41895	1000.0	1178.5	M
19 Propene oxide	58	2.517	2.511	0.006	94	205960	NC	NC	
24 Isopropyl alcohol	45	2.961	2.943	0.018	95	38797	250.0	167.6	
29 Acetonitrile	40	3.070	3.064	0.006	97	94366	250.0	206.8	
36 Isopropyl ether	45	3.831	3.825	0.006	91	464082	25.0	22.7	
40 2-Chloro-1,3-butadiene	53	3.867	3.867	0.000	84	229184	25.0	22.9	
38 1,1-Dimethoxyethane	75	3.904	3.904	0.000	58	119027	125.0	116.8	
41 Tert-butyl ethyl ether	59	4.171	4.165	0.006	95	497716	25.0	22.7	
42 Ethyl acetate	43	4.439	4.433	0.006	98	311937	50.0	44.9	
46 Propionitrile	54	4.500	4.494	0.006	98	236502	250.0	227.3	
47 Methacrylonitrile	41	4.609	4.603	0.006	90	1061716	250.0	256.5	
152 Isooctane	57	5.151	5.157	0.000	95	408142	25.0	22.1	
147 t-Amyl alcohol	59	5.224	5.218	0.012	33	159643	250.0	190.2	
56 Tert-amyl methyl ether	73	5.230	5.224	0.006	94	613125	25.0	22.0	
1 1,4-Difluorobenzene	114	5.528	5.528	0.000	93	606562	25.0	24.9	
60 n-Butanol	56	5.783	5.783	-0.001	86	94560	625.0	447.7	
142 Ethyl acrylate	55	5.881	5.887	0.000	90	227708	25.0	23.0	
63 Methyl methacrylate	41	6.100	6.094	0.006	83	302304	50.0	47.7	
70 2-Nitropropane	43	6.526	6.522	0.000	99	79516	50.0	41.2	
71 Epichlorohydrin	57	6.653	6.653	-0.001	97	181713	250.0	236.6	
76 2-Methylthiophene	97	7.128	7.124	0.000	96	637722	25.0	26.0	
78 3-Methylthiophene	97	7.292	7.288	0.000	98	613707	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.797	7.806	0.000	96	242777	25.0	23.7	
146 1-Chlorohexane	55	8.387	8.387	0.000	94	154411	25.0	24.3	
85 3-Chlorobenzotrifluoride	180	8.405	8.401	-0.001	83	330502	25.0	25.6	
86 4-Chlorobenzotrifluoride	180	8.472	8.462	0.006	94	312199	25.0	25.2	
93 2-Chlorobenzotrifluoride	180	9.385	9.380	0.000	98	322888	25.0	25.0	
96 Cyclohexanone	55	9.628	9.617	0.006	85	55149	250.0	187.0	
104 3-Chlorotoluene	126	10.054	10.049	0.000	96	229419	25.0	25.4	
108 Pentachloroethane	167	10.437	10.432	-0.001	83	112046	25.0	42.1	
114 Dicyclopentadiene	66	10.796	10.790	0.000	95	825740	25.0	25.1	
112 1,2,3-Trimethylbenzene	105	10.845	10.839	0.000	52	794094	25.0	25.8	
150 Benzyl chloride	126	10.961	10.961	0.000	98	77282	25.0	24.3	
118 1,3,5-Trichlorobenzene	180	12.031	12.025	0.000	97	363472	25.0	25.8	
149 2-Methylnaphthalene	142	13.692	13.684	0.000	88	415599	25.0	20.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00071	Amount Added: 12.50	Units: uL	
3MTP_WRK_00072	Amount Added: 12.50	Units: uL	
ADD CORP mix_00067	Amount Added: 12.50	Units: uL	
S_8260_IS_00282	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00253	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7853.D

Injection Date: 25-Feb-2018 09:38:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

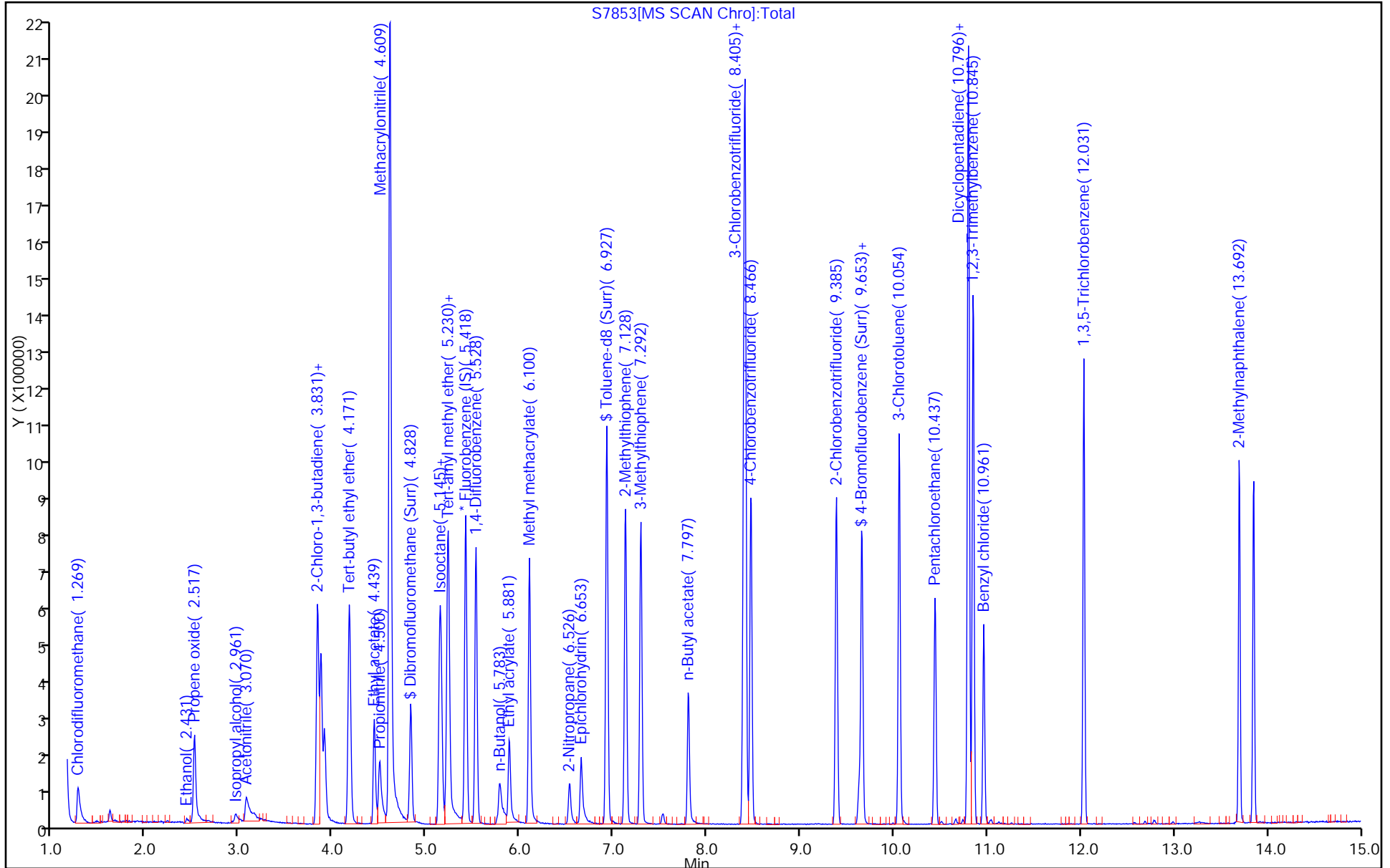
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401358/4 Calibration Date: 02/25/2018 09:38
 Instrument ID: HP5973S Calib Start Date: 01/10/2018 05:21
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 01/10/2018 07:40
 Lab File ID: S7853.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	1.327	1.213		22.9	25.0	-8.6	20.0
Ethanol	Ave	0.0064	0.0075		1180	1000	17.8	20.0
Isopropyl alcohol	Ave	0.0414	0.0278		168	250	-32.9*	20.0
Acetonitrile	Ave	0.0816	0.0675		207	250	-17.3	20.0
Isopropyl ether	Ave	3.649	3.319		22.7	25.0	-9.0	20.0
Chloroprene	Ave	1.792	1.639		22.9	25.0	-8.5	20.0
1,1-Dimethoxyethane	Ave	0.1823	0.1703		117	125	-6.6	20.0
Tert-butyl ethyl ether	Ave	3.924	3.560		22.7	25.0	-9.3	20.0
Ethyl acetate	Ave	1.242	1.115		44.9	50.0	-10.2	20.0
Propionitrile	Ave	0.1860	0.1691		227	250	-9.1	20.0
Methacrylonitrile	Ave	0.7399	0.7593		257	250	2.6	20.0
Isooctane	Ave	3.307	2.919		22.1	25.0	-11.7	20.0
t-Amyl alcohol	Lin1		0.1142		190	250	-23.9*	20.0
Tert-amyl methyl ether	Ave	4.975	4.385		22.0	25.0	-11.9	20.0
1,4-Difluorobenzene	Ave	4.352	4.338		24.9	25.0	-0.3	20.0
n-Butanol	Lin1		0.0271		448	625	-28.4*	20.0
Ethyl acrylate	Ave	1.769	1.629		23.0	25.0	-8.0	20.0
Methyl methacrylate	Ave	1.132	1.081		47.7	50.0	-4.5	20.0
2-Nitropropane	Ave	0.1616	0.1330		41.2	50.0	-17.7	20.0
Epichlorohydrin	Ave	0.1373	0.1300		237	250	-5.4	20.0
2-Methylthiophene	Ave	2.051	2.134		26.0	25.0	4.1	20.0
3-Methylthiophene	Ave	2.001	2.053		25.7	25.0	2.6	20.0
n-Butyl acetate	Ave	1.834	1.736	0.1000	23.7	25.0	-5.3	20.0
1-Chlorohexane	Lin1		0.5382		24.3	25.0	-2.7	20.0
3-Chlorobenzotrifluoride	Ave	1.081	1.106		25.6	25.0	2.3	20.0
4-Chlorobenzotrifluoride	Ave	1.037	1.045		25.2	25.0	0.8	20.0
2-Chlorobenzotrifluoride	Ave	1.079	1.080		25.0	25.0	0.2	20.0
Cyclohexanone	Lin1		0.0185		187	250	-25.2*	20.0
3-Chlorotoluene	Ave	0.7569	0.7676		25.4	25.0	1.4	20.0
Pentachloroethane	Ave	0.2229	0.3749		42.1	25.0	68.2*	20.0
Dicyclopentadiene	Ave	2.755	2.763		25.1	25.0	0.3	20.0
1,2,3-Trimethylbenzene	Ave	2.574	2.657		25.8	25.0	3.2	20.0
Benzyl chloride	Ave	0.2769	0.2694		24.3	25.0	-2.7	20.0
1,3,5-Trichlorobenzene	Ave	1.177	1.216		25.8	25.0	3.3	20.0
2-Methylnaphthalene	Ave	1.678	1.391		20.7	25.0	-17.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7853.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 25-Feb-2018 09:38:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: 480-0069476-004
 Operator ID: AM Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub61
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 10:00:57 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata

Date: 25-Feb-2018 10:00:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.418	5.412	0.006	99	139827	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.405	8.406	-0.001	83	286894	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	73	298862	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.834	0.000	57	168234	25.0	23.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.139	5.139	0.000	0	104198	25.0	24.2	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	92	720680	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	94	239826	25.0	24.0	
11 Chlorodifluoromethane	51	1.269	1.264	0.005	77	169655	25.0	22.9	
148 Ethanol	45	2.431	2.431	0.005	80	41895	1000.0	1178.5	M
19 Propene oxide	58	2.517	2.511	0.006	94	205960	NC	NC	
24 Isopropyl alcohol	45	2.961	2.943	0.018	95	38797	250.0	167.6	
29 Acetonitrile	40	3.070	3.064	0.006	97	94366	250.0	206.8	
36 Isopropyl ether	45	3.831	3.825	0.006	91	464082	25.0	22.7	
40 2-Chloro-1,3-butadiene	53	3.867	3.867	0.000	84	229184	25.0	22.9	
38 1,1-Dimethoxyethane	75	3.904	3.904	0.000	58	119027	125.0	116.8	
41 Tert-butyl ethyl ether	59	4.171	4.165	0.006	95	497716	25.0	22.7	
42 Ethyl acetate	43	4.439	4.433	0.006	98	311937	50.0	44.9	
46 Propionitrile	54	4.500	4.494	0.006	98	236502	250.0	227.3	
47 Methacrylonitrile	41	4.609	4.603	0.006	90	1061716	250.0	256.5	
152 Isooctane	57	5.151	5.157	0.000	95	408142	25.0	22.1	
147 t-Amyl alcohol	59	5.224	5.218	0.012	33	159643	250.0	190.2	
56 Tert-amyl methyl ether	73	5.230	5.224	0.006	94	613125	25.0	22.0	
1 1,4-Difluorobenzene	114	5.528	5.528	0.000	93	606562	25.0	24.9	
60 n-Butanol	56	5.783	5.783	-0.001	86	94560	625.0	447.7	
142 Ethyl acrylate	55	5.881	5.887	0.000	90	227708	25.0	23.0	
63 Methyl methacrylate	41	6.100	6.094	0.006	83	302304	50.0	47.7	
70 2-Nitropropane	43	6.526	6.522	0.000	99	79516	50.0	41.2	
71 Epichlorohydrin	57	6.653	6.653	-0.001	97	181713	250.0	236.6	
76 2-Methylthiophene	97	7.128	7.124	0.000	96	637722	25.0	26.0	
78 3-Methylthiophene	97	7.292	7.288	0.000	98	613707	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
155 n-Butyl acetate	43	7.797	7.806	0.000	96	242777	25.0	23.7	
146 1-Chlorohexane	55	8.387	8.387	0.000	94	154411	25.0	24.3	
85 3-Chlorobenzotrifluoride	180	8.405	8.401	-0.001	83	330502	25.0	25.6	
86 4-Chlorobenzotrifluoride	180	8.472	8.462	0.006	94	312199	25.0	25.2	
93 2-Chlorobenzotrifluoride	180	9.385	9.380	0.000	98	322888	25.0	25.0	
96 Cyclohexanone	55	9.628	9.617	0.006	85	55149	250.0	187.0	
104 3-Chlorotoluene	126	10.054	10.049	0.000	96	229419	25.0	25.4	
108 Pentachloroethane	167	10.437	10.432	-0.001	83	112046	25.0	42.1	
114 Dicyclopentadiene	66	10.796	10.790	0.000	95	825740	25.0	25.1	
112 1,2,3-Trimethylbenzene	105	10.845	10.839	0.000	52	794094	25.0	25.8	
150 Benzyl chloride	126	10.961	10.961	0.000	98	77282	25.0	24.3	
118 1,3,5-Trichlorobenzene	180	12.031	12.025	0.000	97	363472	25.0	25.8	
149 2-Methylnaphthalene	142	13.692	13.684	0.000	88	415599	25.0	20.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

2MTP_WRK_00071	Amount Added: 12.50	Units: uL	
3MTP_WRK_00072	Amount Added: 12.50	Units: uL	
ADD CORP mix_00067	Amount Added: 12.50	Units: uL	
S_8260_IS_00282	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00253	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7853.D

Injection Date: 25-Feb-2018 09:38:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: CCV

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

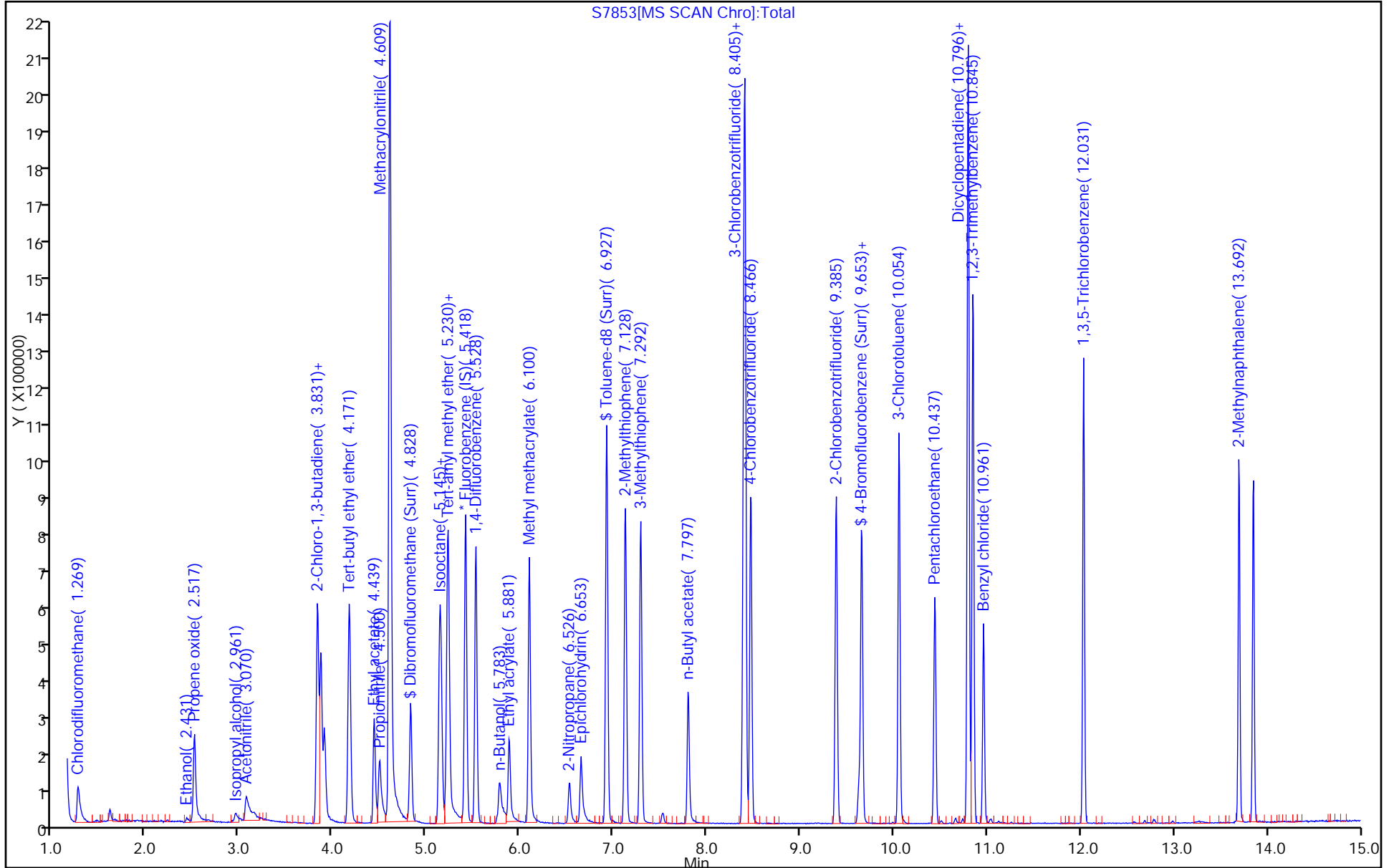
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

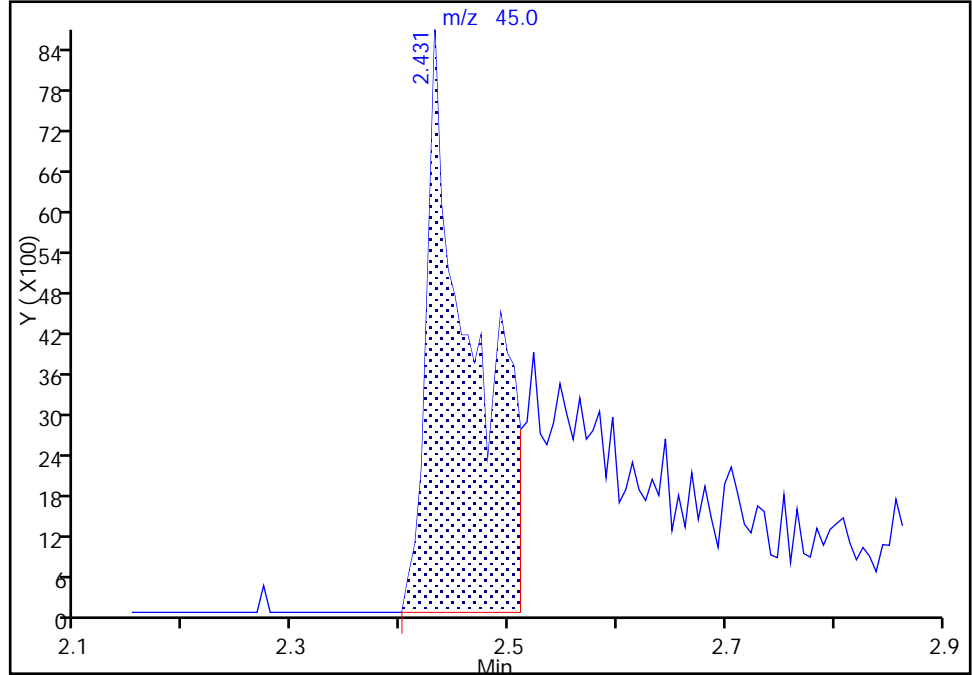
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7853.D
Injection Date: 25-Feb-2018 09:38:30 Instrument ID: HP5973S
Lims ID: CCV
Client ID:
Operator ID: AM ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Signal: 1

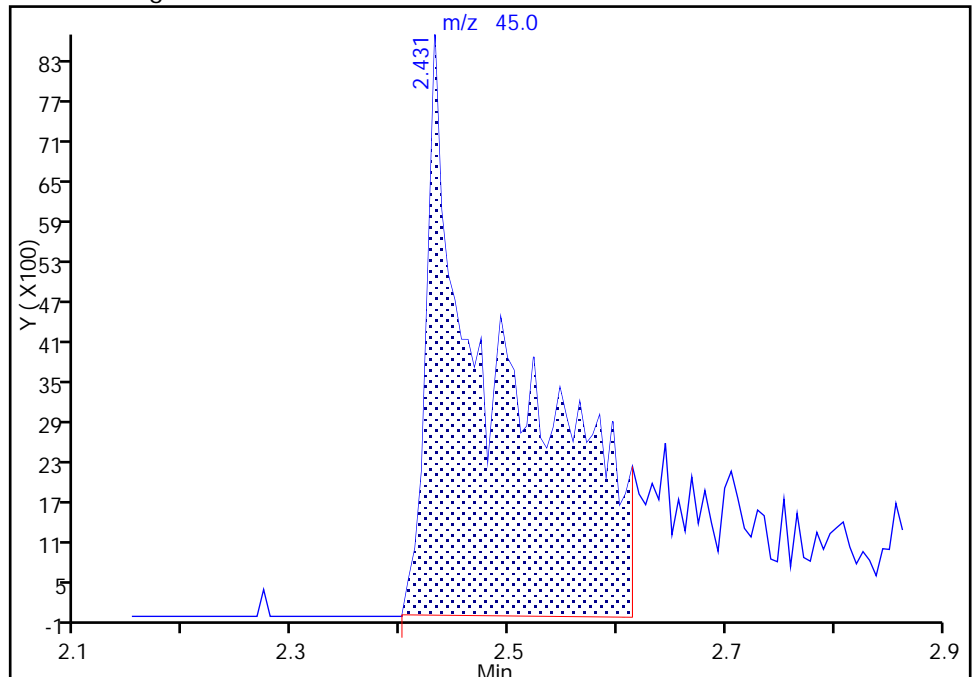
RT: 2.43
Area: 25376
Amount: 713.8066
Amount Units: ug/L

Processing Integration Results



RT: 2.43
Area: 41895
Amount: 1178.4729
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 09:57:56
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6811.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 31-Jan-2018 14:31:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068951-005
 Operator ID: LH Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Feb-2018 15:08:27 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK023

First Level Reviewer: scibiliam Date: 01-Feb-2018 08:11:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.272	4.272	0.000	87	428781	NR	NR	7a
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QC Flag Legend

Processing Flags

- NR - Missing Quant Standard
- 7 - Failed Limit of Detection

Review Flags

- a - User Assigned ID

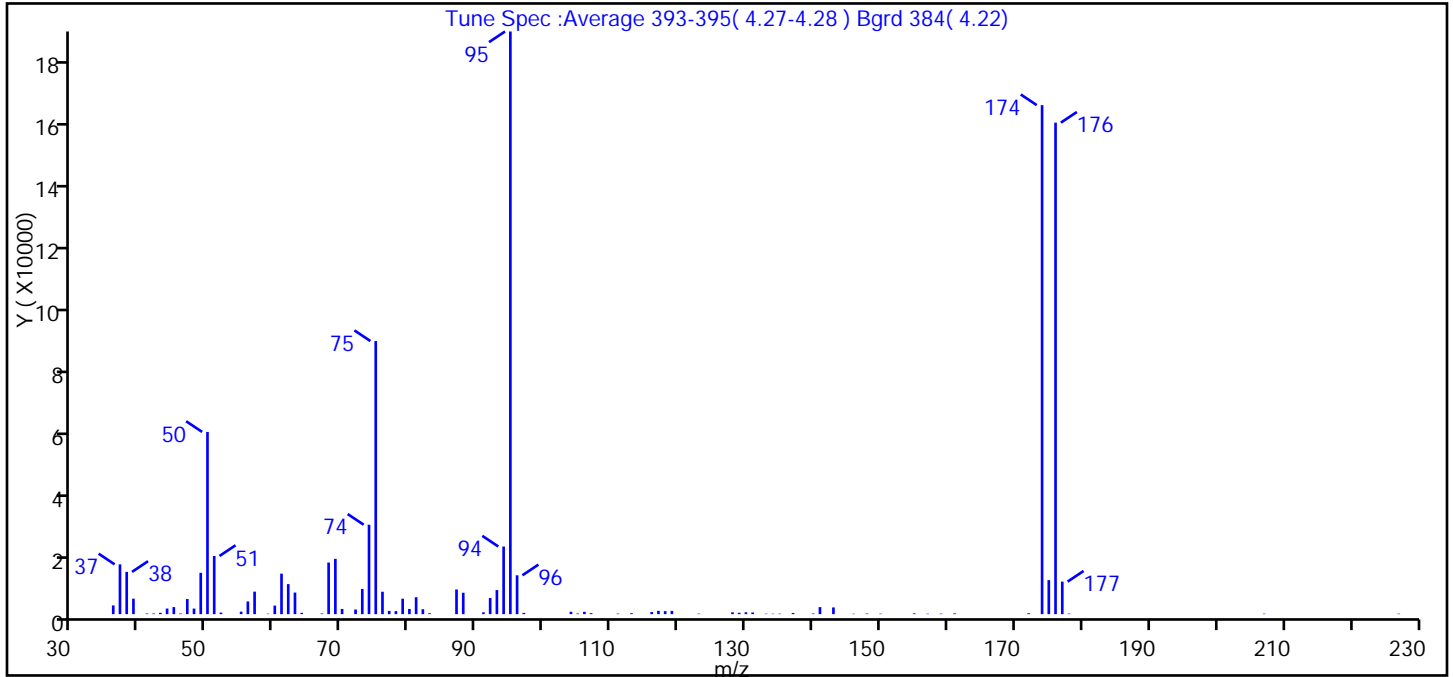
Reagents:

BFB_WRK_00067 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6811.D
 Injection Date: 31-Jan-2018 14:31:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	31.3
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	87.4
175	5 to 9% of m/z 174	5.8 (6.7)
176	Greater than 95% but less than 101% of m/z 174	84.4 (96.6)
177	5 to 9% of m/z 176	5.6 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6811.D\N-8260.rslt\spectra.d
Injection Date: 31-Jan-2018 14:31:30
Spectrum: Tune Spec :Average 393-395(4.27-4.28) Bgrd 384(4.22)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2839	62.00	9762	92.00	5233	134.00	138
37.00	16177	63.00	7016	93.00	7826	135.00	148
38.00	13737	64.00	430	94.00	21984	137.00	381
39.00	5027	67.00	205	95.00	189376	140.00	196
41.00	207	68.00	16776	96.00	12627	141.00	2286
42.00	207	69.00	17976	97.00	414	143.00	2183
43.00	435	70.00	1689	104.00	779	146.00	134
44.00	1821	72.00	1505	105.00	212	148.00	191
45.00	2297	73.00	8193	106.00	763	150.00	149
46.00	206	74.00	29064	107.00	329	155.00	255
47.00	4910	75.00	88760	111.00	180	157.00	144
48.00	1806	76.00	7284	113.00	304	159.00	166
49.00	13430	77.00	1062	116.00	685	161.00	235
50.00	59224	78.00	987	117.00	1073	172.00	286
51.00	18912	79.00	5019	118.00	984	174.00	165440
52.00	504	80.00	1686	119.00	1069	175.00	11056
55.00	813	81.00	5498	123.00	163	176.00	159744
56.00	4118	82.00	1599	128.00	592	177.00	10568
57.00	7318	83.00	287	129.00	445	178.00	174
59.00	142	87.00	8023	130.00	612	207.00	150
60.00	2782	88.00	6952	131.00	539	227.00	161
61.00	13166	91.00	590	133.00	143		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7292.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 25-Feb-2018 09:01:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0069477-002
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 09:09:54 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata Date: 25-Feb-2018 09:09:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.242	4.242	0.000	88	434110	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

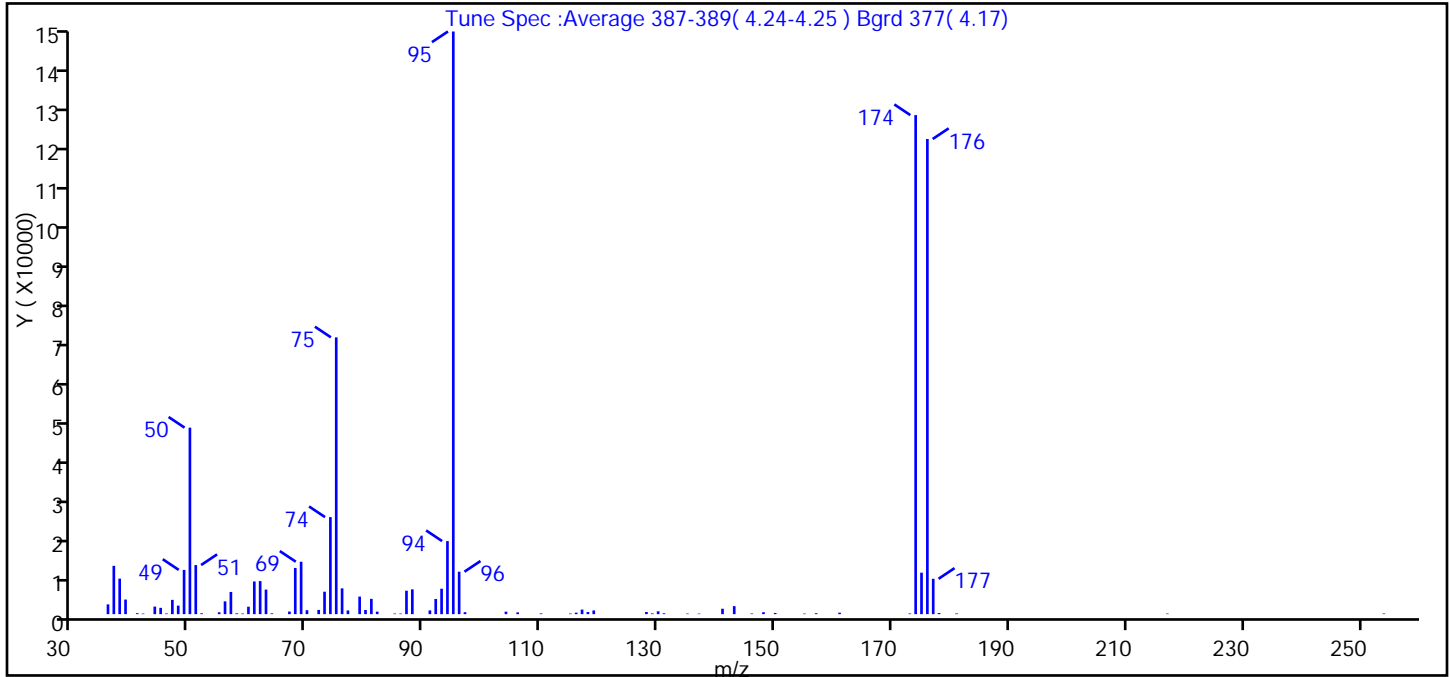
Reagents:

BFB_WRK_00068 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7292.D
 Injection Date: 25-Feb-2018 09:01:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	85.6
175	5 to 9% of m/z 174	7.1 (8.3)
176	Greater than 95% but less than 101% of m/z 174	81.5 (95.2)
177	5 to 9% of m/z 176	6.1 (7.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7292.D\N-8260.rslt\spectra.d
Injection Date: 25-Feb-2018 09:01:30
Spectrum: Tune Spec :Average 387-389(4.24-4.25) Bgrd 377(4.17)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2417	61.00	8090	87.00	5804	135.00	139
37.00	11965	62.00	8189	88.00	6140	137.00	134
38.00	8800	63.00	6083	91.00	930	141.00	1339
39.00	3618	64.00	197	92.00	3757	143.00	1987
41.00	236	67.00	639	93.00	6299	146.00	154
42.00	148	68.00	11450	94.00	18096	148.00	482
44.00	1874	69.00	12984	95.00	144320	150.00	296
45.00	1558	70.00	973	96.00	10513	155.00	140
46.00	167	72.00	1043	97.00	483	157.00	233
47.00	3533	73.00	5558	104.00	616	161.00	366
48.00	2107	74.00	24032	106.00	437	173.00	166
49.00	10960	75.00	68560	110.00	182	174.00	123608
50.00	46192	76.00	6389	115.00	153	175.00	10274
51.00	12162	77.00	914	116.00	372	176.00	117688
52.00	217	78.00	5	117.00	1132	177.00	8755
55.00	452	79.00	4351	118.00	527	178.00	277
56.00	3162	80.00	1033	119.00	916	181.00	176
57.00	5496	81.00	3784	128.00	530	217.00	139
58.00	202	82.00	623	129.00	184	254.00	151
59.00	153	85.00	150	130.00	705		
60.00	1841	86.00	147	131.00	210		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7308.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 26-Feb-2018 08:52:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0069487-002
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 09:00:25 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: moffata Date: 26-Feb-2018 09:00:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.272	4.272	0.000	86	519893	NR	NR	7
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

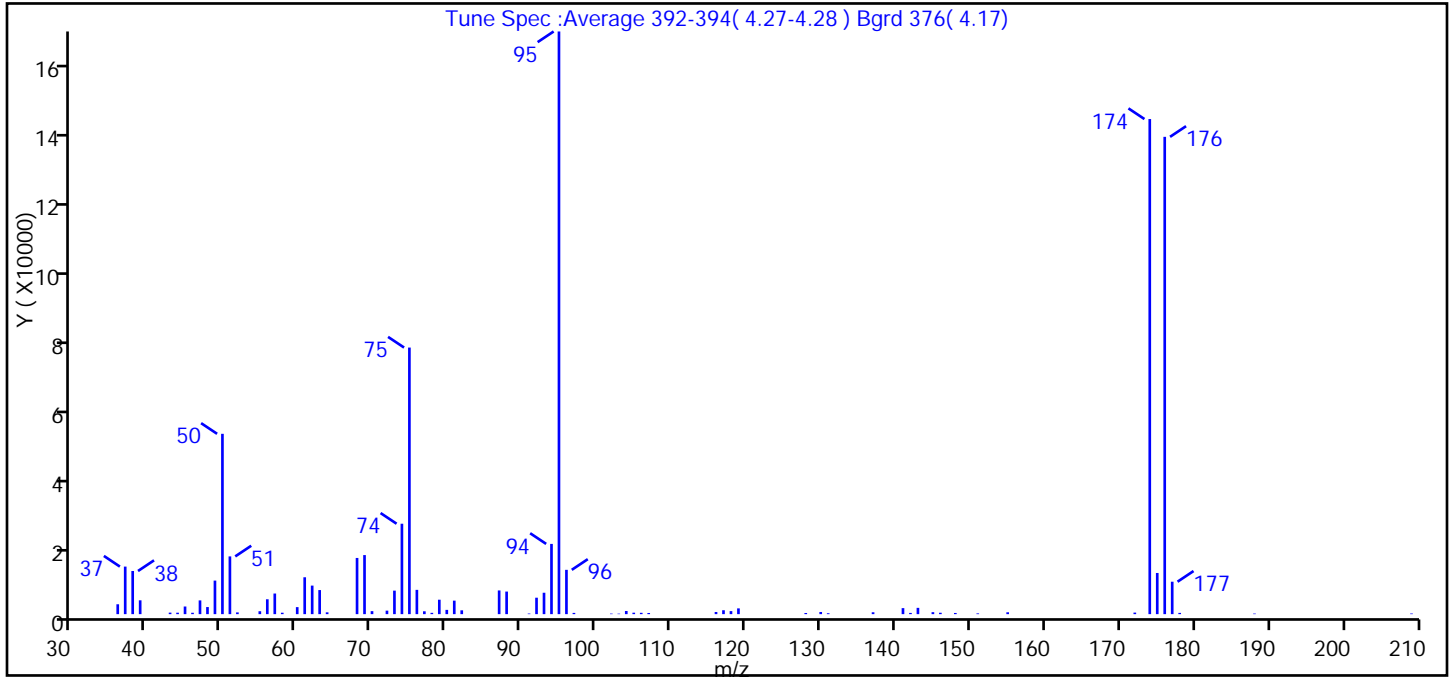
Reagents:

BFB_WRK_00068 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7308.D
 Injection Date: 26-Feb-2018 08:52:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	30.9
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.0
175	5 to 9% of m/z 174	7.1 (8.3)
176	Greater than 95% but less than 101% of m/z 174	81.9 (96.4)
177	5 to 9% of m/z 176	5.6 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7308.D\N-8260.rslt\spectra.d
Injection Date: 26-Feb-2018 08:52:30
Spectrum: Tune Spec :Average 392-394(4.27-4.28) Bgrd 376(4.17)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2772	61.00	10349	88.00	6337	130.00	606
37.00	13344	62.00	8009	91.00	170	131.00	252
38.00	12107	63.00	6756	92.00	4613	137.00	526
39.00	3881	64.00	509	93.00	6007	141.00	1686
43.00	426	68.00	15768	94.00	19712	142.00	344
44.00	405	69.00	16576	95.00	163520	143.00	1765
45.00	2143	70.00	842	96.00	12434	145.00	553
46.00	387	72.00	982	97.00	350	146.00	390
47.00	3859	73.00	6598	102.00	153	148.00	331
48.00	1989	74.00	25376	103.00	137	151.00	211
49.00	9415	75.00	74816	104.00	884	155.00	523
50.00	50608	76.00	6814	105.00	407	172.00	433
51.00	16205	77.00	802	106.00	376	174.00	138944
52.00	489	78.00	368	107.00	324	175.00	11552
55.00	818	79.00	4050	116.00	604	176.00	133952
56.00	4174	80.00	1195	117.00	1096	177.00	9101
57.00	5786	81.00	3790	118.00	850	178.00	352
58.00	400	82.00	1076	119.00	1616	188.00	161
60.00	1970	87.00	6650	128.00	323	209.00	177

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7367.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Feb-2018 08:43:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0069548-002
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Feb-2018 08:52:02 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: farrellr Date: 28-Feb-2018 08:52:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 4 BFB	95	4.272	4.272	0.000	88	304714	NR	NR	7a
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QC Flag Legend

Processing Flags

- NR - Missing Quant Standard
- 7 - Failed Limit of Detection

Review Flags

- a - User Assigned ID

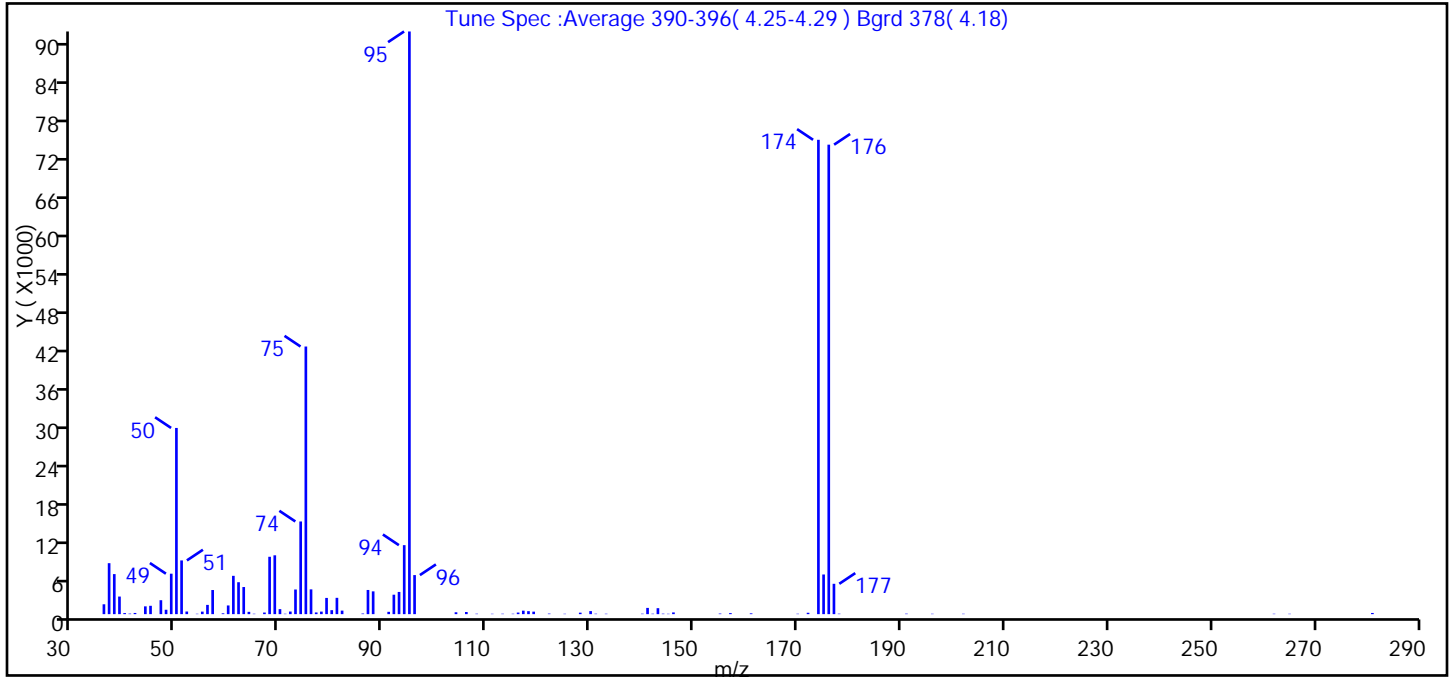
Reagents:

BFB_WRK_00068 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7367.D
 Injection Date: 28-Feb-2018 08:43:30 Instrument ID: HP5973N
 Lims ID: BFB
 Client ID:
 Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.0
75	30 to 60% of m/z 95	45.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.4
175	5 to 9% of m/z 174	6.8 (8.4)
176	Greater than 95% but less than 101% of m/z 174	80.6 (99.0)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7367.D\N-8260.rslt\spectra.d
Injection Date: 28-Feb-2018 08:43:30
Spectrum: Tune Spec :Average 390-396(4.25-4.29) Bgrd 378(4.18)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1557	63.00	4281	92.00	3070	142.00	69
37.00	8046	64.00	363	93.00	3506	143.00	942
38.00	6323	65.00	63	94.00	10893	144.00	75
39.00	2778	67.00	253	95.00	92000	145.00	58
40.00	168	68.00	9059	96.00	6167	146.00	271
41.00	83	69.00	9290	104.00	296	155.00	93
42.00	187	70.00	789	106.00	338	157.00	162
44.00	1231	71.00	62	108.00	67	161.00	125
45.00	1318	72.00	412	111.00	57	170.00	62
47.00	2200	73.00	3891	113.00	66	172.00	218
48.00	693	74.00	14633	115.00	64	174.00	74896
49.00	6387	75.00	42256	116.00	253	175.00	6262
50.00	29400	76.00	3912	117.00	549	176.00	74128
51.00	8483	77.00	269	118.00	469	177.00	4792
52.00	415	78.00	402	119.00	395	178.00	72
54.00	59	79.00	2561	122.00	86	191.00	75
55.00	399	80.00	628	125.00	58	196.00	59
56.00	1461	81.00	2576	128.00	233	202.00	61
57.00	3808	82.00	559	130.00	481	262.00	61
59.00	129	86.00	99	131.00	69	265.00	57
60.00	1372	87.00	3816	133.00	63	281.00	185
61.00	6049	88.00	3597	140.00	71		
62.00	5040	91.00	366	141.00	985		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6361.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 09-Jan-2018 23:52:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0068466-002
 Operator ID: AS Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 10-Jan-2018 18:11:32 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: sonkera Date: 10-Jan-2018 00:03:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.832	3.832	0.000	0	310867	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

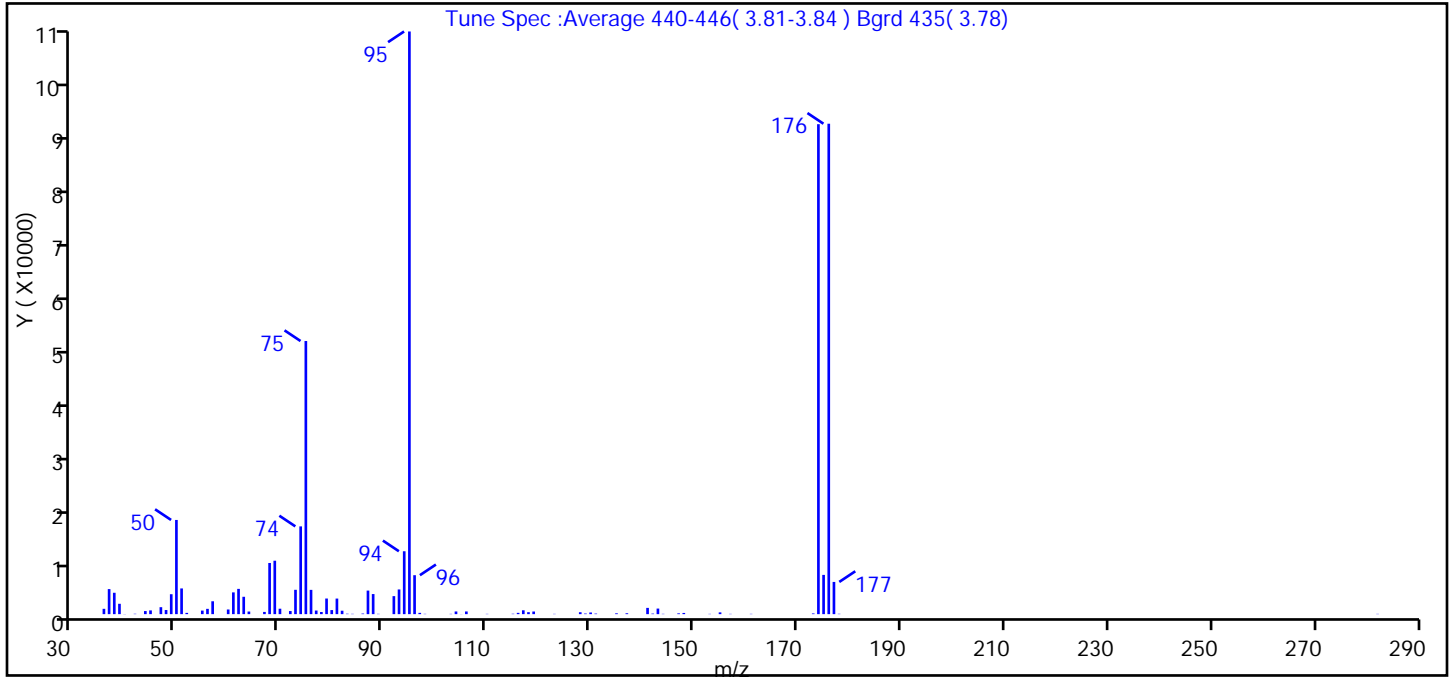
Reagents:

BFB_WRK_00067 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6361.D
 Injection Date: 09-Jan-2018 23:52:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: AS ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	84.1
175	5 to 9% of m/z 174	6.7 (8.0)
176	Greater than 95% but less than 101% of m/z 174	84.2 (100.1)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6361.D\S-8260.rslt\spectra.d
Injection Date: 09-Jan-2018 23:52:30
Spectrum: Tune Spec :Average 440-446(3.81-3.84) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	985	64.00	482	89.00	56	130.00	308
37.00	4633	67.00	411	92.00	3332	131.00	102
38.00	3954	68.00	9463	93.00	4568	135.00	152
39.00	1915	69.00	9884	94.00	11634	137.00	163
40.00	26	70.00	1005	95.00	107792	141.00	1157
42.00	68	72.00	571	96.00	7204	142.00	102
44.00	570	73.00	4502	97.00	238	143.00	1031
45.00	693	74.00	16236	98.00	55	144.00	58
47.00	1288	75.00	50528	103.00	50	147.00	145
48.00	762	76.00	4491	104.00	496	148.00	221
49.00	3687	77.00	665	105.00	16	153.00	51
50.00	17424	78.00	394	106.00	496	155.00	328
51.00	4756	79.00	2889	110.00	51	157.00	51
52.00	234	80.00	753	115.00	73	161.00	54
55.00	657	81.00	2881	116.00	238	173.00	129
56.00	980	82.00	634	117.00	712	174.00	90640
57.00	2381	83.00	76	118.00	363	175.00	7262
60.00	862	84.00	57	119.00	487	176.00	90728
61.00	4025	86.00	109	123.00	52	177.00	5959
62.00	4674	87.00	4357	128.00	355	178.00	64
63.00	3212	88.00	3715	129.00	112	282.00	50

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7851.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 25-Feb-2018 08:46:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0069476-002
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 08:58:31 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata Date: 25-Feb-2018 08:58:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.717	3.717	0.000	0	308243	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

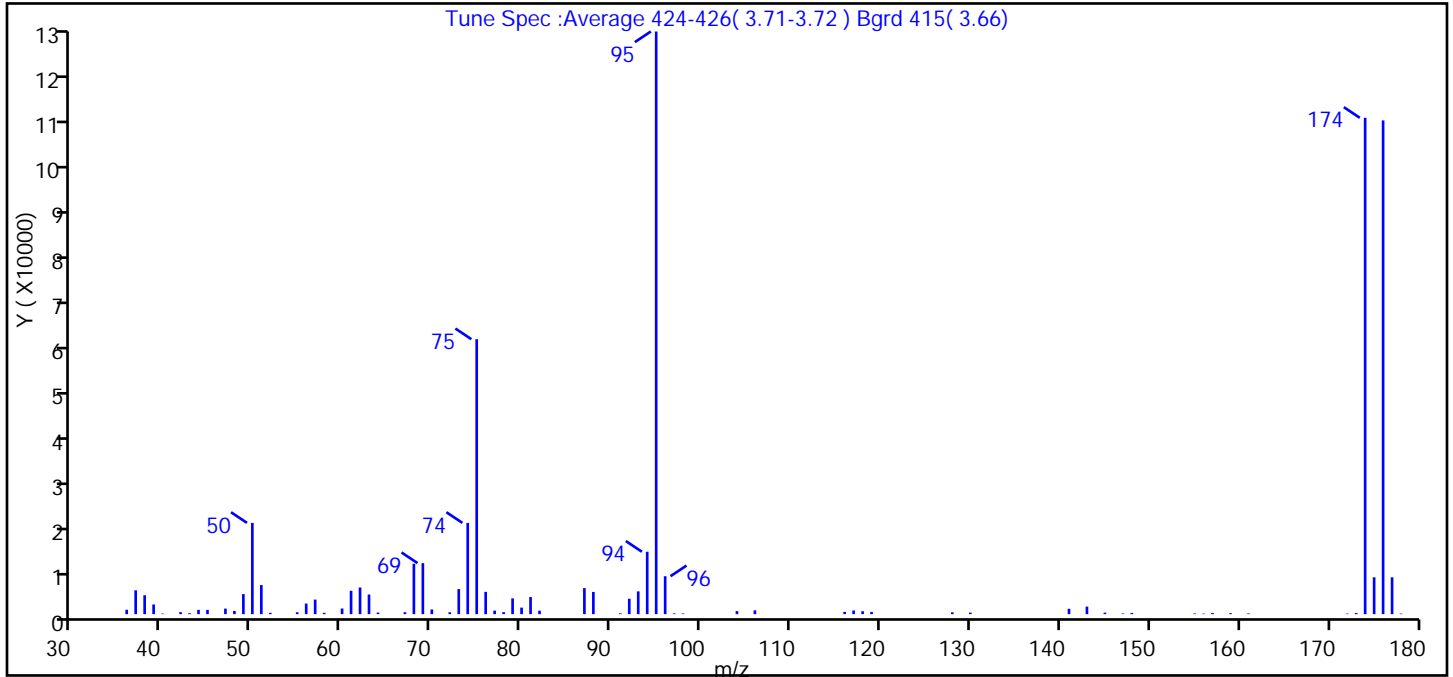
Reagents:

BFB_WRK_00068 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7851.D
 Injection Date: 25-Feb-2018 08:46:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.7
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	85.2
175	5 to 9% of m/z 174	6.3 (7.4)
176	Greater than 95% but less than 101% of m/z 174	84.7 (99.5)
177	5 to 9% of m/z 176	6.3 (7.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7851.D\S-8260.rslt\spectra.d
Injection Date: 25-Feb-2018 08:46:30
Spectrum: Tune Spec :Average 424-426(3.71-3.72) Bgrd 415(3.66)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	959	60.00	1232	82.00	758	141.00	1174
37.00	5213	61.00	5110	87.00	5697	143.00	1645
38.00	4135	62.00	5826	88.00	4856	145.00	333
39.00	2122	63.00	4295	91.00	173	147.00	135
40.00	120	64.00	342	92.00	3367	148.00	263
42.00	432	67.00	418	93.00	4982	155.00	142
43.00	205	68.00	11026	94.00	13651	156.00	118
44.00	935	69.00	11160	95.00	127456	157.00	252
45.00	924	70.00	1031	96.00	8293	159.00	216
47.00	1210	72.00	409	97.00	159	161.00	157
48.00	699	73.00	5476	98.00	143	172.00	119
49.00	4389	74.00	19960	104.00	668	173.00	242
50.00	19960	75.00	60144	106.00	829	174.00	108568
51.00	6364	76.00	4876	116.00	486	175.00	8059
52.00	286	77.00	766	117.00	805	176.00	108000
55.00	412	78.00	436	118.00	639	177.00	8056
56.00	2315	79.00	3453	119.00	478	178.00	121
57.00	3185	80.00	1432	128.00	395		
58.00	288	81.00	3739	130.00	336		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401358/7
 Matrix: Water Lab File ID: S7856.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401358/7
 Matrix: Water Lab File ID: S7856.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401358/7
 Matrix: Water Lab File ID: S7856.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7856.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 25-Feb-2018 10:48:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0069476-007
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 11:34:02 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata

Date: 25-Feb-2018 11:34:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.419	5.412	0.007	99	128021	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.406	8.406	0.000	84	266989	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.797	10.796	0.001	92	274080	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.829	4.834	0.001	59	158584	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.139	5.139	0.000	0	98659	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	92	671702	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	96	221593	25.0	23.9	
10 Dichlorodifluoromethane	85		1.245					ND	
11 Chlorodifluoromethane	51		1.264					ND	
12 Chloromethane	50		1.416					ND	
13 Vinyl chloride	62		1.501					ND	
151 Butadiene	54		1.525					ND	
14 Bromomethane	94		1.817					ND	
15 Chloroethane	64		1.896					ND	
16 Dichlorofluoromethane	67		2.115					ND	
17 Trichlorofluoromethane	101		2.127					ND	
148 Ethanol	45		2.426					ND	
18 Ethyl ether	59		2.432					ND	
19 Propene oxide	58		2.511					ND	
20 Acrolein	56		2.602					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.626					ND	
22 1,1-Dichloroethene	96		2.638					ND	
23 Acetone	43		2.766					ND	
25 Iodomethane	142		2.797					ND	
26 Carbon disulfide	76		2.839					ND	
24 Isopropyl alcohol	45		2.943					ND	
28 3-Chloro-1-propene	41		3.016					ND	
27 Methyl acetate	43		3.064					ND	
29 Acetonitrile	40		3.064					ND	U
30 Methylene Chloride	84		3.155					ND	U
31 2-Methyl-2-propanol	59		3.332					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.381					ND	
34 trans-1,2-Dichloroethene	96		3.387					ND	
33 Acrylonitrile	53		3.435					ND	
35 Hexane	57		3.593					ND	
39 1,1-Dichloroethane	63		3.806					ND	
139 Halothane	117		3.822					ND	
36 Isopropyl ether	45		3.825					ND	
37 Vinyl acetate	43		3.867					ND	
40 2-Chloro-1,3-butadiene	53		3.867					ND	
38 1,1-Dimethoxyethane	75		3.904					ND	
41 Tert-butyl ethyl ether	59		4.165					ND	
44 2,2-Dichloropropane	77		4.330					ND	
45 cis-1,2-Dichloroethene	96		4.360					ND	
43 2-Butanone (MEK)	43		4.403					ND	
42 Ethyl acetate	43		4.433					ND	
46 Propionitrile	54		4.494					ND	
48 Chlorobromomethane	128		4.597					ND	
47 Methacrylonitrile	41		4.603					ND	
49 Tetrahydrofuran	42		4.628					ND	
50 Chloroform	83		4.670					ND	
51 1,1,1-Trichloroethane	97		4.792					ND	
52 Cyclohexane	56		4.804					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		4.932					ND	
54 1,1-Dichloropropene	75		4.944					ND	
57 Benzene	78		5.145					ND	
152 Isooctane	57		5.151					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
53 Isobutyl alcohol	43		5.157					ND	
58 1,2-Dichloroethane	62		5.206					ND	
147 t-Amyl alcohol	59		5.212					ND	
56 Tert-amyl methyl ether	73		5.224					ND	
59 n-Heptane	43		5.339					ND	
1 1,4-Difluorobenzene	114		5.528					ND	
62 Trichloroethene	95		5.759					ND	
60 n-Butanol	56		5.784					ND	
142 Ethyl acrylate	55		5.881					ND	
64 Methylcyclohexane	83		5.887					ND	
65 1,2-Dichloropropane	63		5.990					ND	
63 Methyl methacrylate	41		6.094					ND	
67 Dibromomethane	93		6.130					ND	
66 1,4-Dioxane	88		6.149					ND	
68 Dichlorobromomethane	83		6.282					ND	
70 2-Nitropropane	43		6.526					ND	
69 2-Chloroethyl vinyl ether	63		6.562					ND	
71 Epichlorohydrin	57		6.654					ND	
72 cis-1,3-Dichloropropene	75		6.702					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.842					ND	
74 Toluene	92		6.994					ND	
76 2-Methylthiophene	97		7.128					ND	
77 trans-1,3-Dichloropropene	75		7.268					ND	
78 3-Methylthiophene	97		7.292					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		7.317					ND	
79 1,1,2-Trichloroethane	83		7.457					ND	
81 Tetrachloroethene	166		7.523					ND	
82 1,3-Dichloropropane	76		7.615					ND	
80 2-Hexanone	43		7.682					ND	
155 n-Butyl acetate	43		7.797					ND	
83 Chlorodibromomethane	129		7.852					ND	
84 Ethylene Dibromide	107		7.955					ND	
146 1-Chlorohexane	55		8.387					ND	U
85 3-Chlorobenzotrifluoride	180		8.406					ND	
87 Chlorobenzene	112		8.436					ND	
86 4-Chlorobenzotrifluoride	180		8.467					ND	
89 1,1,1,2-Tetrachloroethane	131		8.533					ND	
88 Ethylbenzene	91		8.533					ND	
90 m-Xylene & p-Xylene	106		8.655					ND	
91 o-Xylene	106		9.081					ND	
92 Styrene	104		9.105					ND	
95 Bromoform	173		9.349					ND	
93 2-Chlorobenzotrifluoride	180		9.385					ND	
94 Isopropylbenzene	105		9.464					ND	
96 Cyclohexanone	55		9.622					ND	
101 Bromobenzene	156		9.805					ND	
97 1,1,2,2-Tetrachloroethane	83		9.853					ND	
100 1,2,3-Trichloropropane	110		9.884					ND	
99 N-Propylbenzene	91		9.890					ND	
98 trans-1,4-Dichloro-2-buten	53		9.902					ND	
103 2-Chlorotoluene	126		9.993					ND	
104 3-Chlorotoluene	126		10.054					ND	
102 1,3,5-Trimethylbenzene	105		10.066					ND	
105 4-Chlorotoluene	126		10.103					ND	
106 tert-Butylbenzene	134		10.389					ND	
108 Pentachloroethane	167		10.438					ND	
107 1,2,4-Trimethylbenzene	105		10.444					ND	
109 sec-Butylbenzene	105		10.596					ND	
111 1,3-Dichlorobenzene	146		10.730					ND	
110 4-Isopropyltoluene	119		10.736					ND	
114 Dicyclopentadiene	66		10.797					ND	
113 1,4-Dichlorobenzene	146		10.815					ND	
112 1,2,3-Trimethylbenzene	105		10.845					ND	
150 Benzyl chloride	126		10.961					ND	
115 n-Butylbenzene	91		11.125					ND	
116 1,2-Dichlorobenzene	146		11.168					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.891					ND	
118 1,3,5-Trichlorobenzene	180		12.031					ND	
119 1,2,4-Trichlorobenzene	180		12.573					ND	
120 Hexachlorobutadiene	225		12.688					ND	
121 Naphthalene	128		12.780					ND	
122 1,2,3-Trichlorobenzene	180		12.987					ND	
149 2-Methylnaphthalene	142	13.698	13.692	0.006	1	1219		0.0663	7
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
T 7 Ethylene oxide	44		1.528					ND	U
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00282	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00253	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7856.D

Injection Date: 25-Feb-2018 10:48:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

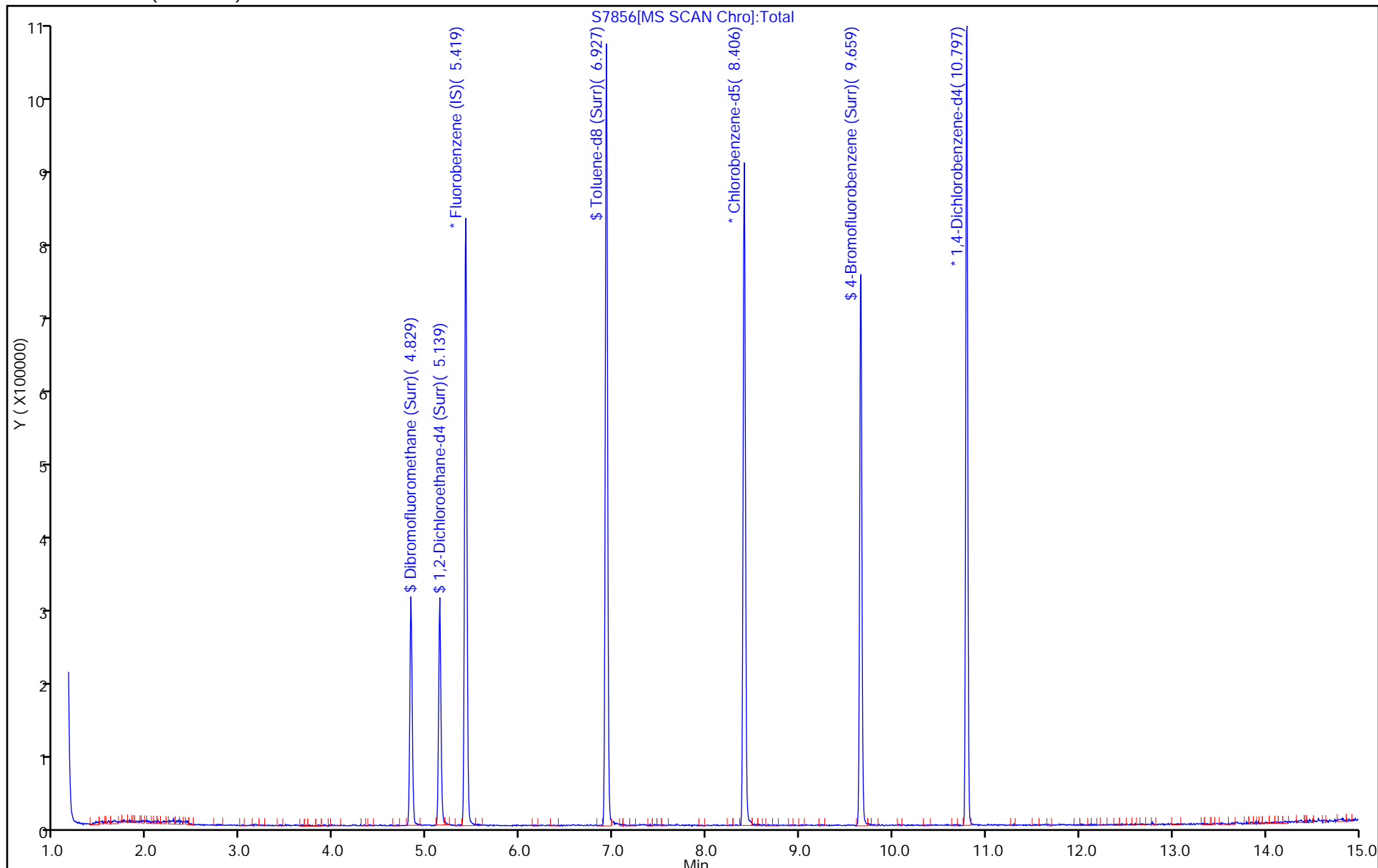
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

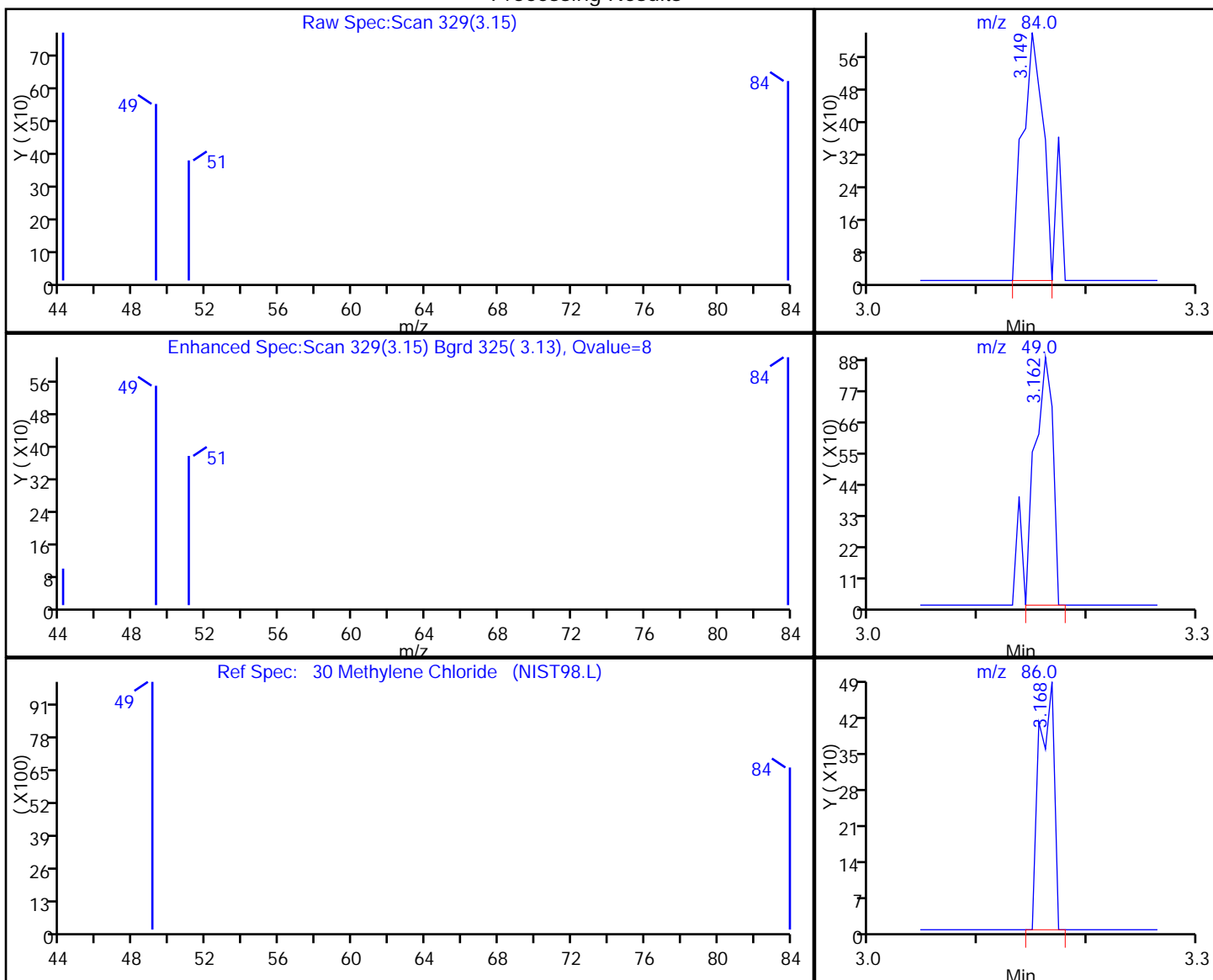


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7856.D
Injection Date: 25-Feb-2018 10:48:30 Instrument ID: HP5973S
Lims ID: MB
Client ID:
Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.15	84.00	796	0.113096
3.16	49.00	1004	
3.17	86.00	459	

Reviewer: moffata, 25-Feb-2018 11:34:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401359/7
 Matrix: Water Lab File ID: N7297.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 11:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401359/7
 Matrix: Water Lab File ID: N7297.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 11:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401359/7
 Matrix: Water Lab File ID: N7297.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 11:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7297.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 25-Feb-2018 11:12:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0069477-007
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 11:37:05 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata Date: 25-Feb-2018 11:37:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	199047	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	91	740273	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	95	405611	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	93	232906	25.0	26.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.120	-0.006	0	297921	25.0	24.2	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	921290	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	-0.006	90	297466	25.0	25.8	
11 Dichlorodifluoromethane	85		1.318					ND	
12 Chlorodifluoromethane	51		1.348					ND	
13 Chloromethane	50		1.482					ND	
14 Vinyl chloride	62		1.574					ND	
144 Butadiene	54		1.604					ND	
16 Chloroethane	64		1.951					ND	
17 Dichlorofluoromethane	67		2.164					ND	
18 Trichlorofluoromethane	101		2.170					ND	
141 Ethanol	45		2.456					ND	
19 Ethyl ether	59		2.480					ND	
81 Propene oxide	58		2.547					ND	
20 Acrolein	56		2.632					ND	U
22 1,1-Dichloroethene	96		2.669					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.675					ND	
23 Acetone	43		2.790					ND	
24 Iodomethane	142		2.821					ND	
26 Isopropyl alcohol	45		2.960					ND	
27 3-Chloro-1-propene	41		3.034					ND	
29 Acetonitrile	40		3.058					ND	U
28 Methyl acetate	43		3.088					ND	
30 Methylene Chloride	84		3.167					ND	
31 2-Methyl-2-propanol	59		3.362					ND	
32 Methyl tert-butyl ether	73		3.405					ND	
33 trans-1,2-Dichloroethene	96		3.405					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 Acrylonitrile	53		3.435					ND	
35 Hexane	57		3.618					ND	
36 1,1-Dichloroethane	63		3.806					ND	
37 Isopropyl ether	45		3.849					ND	
38 2-Chloro-1,3-butadiene	53		3.879					ND	
40 1,1-Dimethoxyethane	75		3.910					ND	
41 Tert-butyl ethyl ether	59		4.183					ND	
42 2,2-Dichloropropane	77		4.329					ND	
43 cis-1,2-Dichloroethene	96		4.354					ND	
44 2-Butanone (MEK)	43		4.390					ND	
46 Propionitrile	54		4.463					ND	
48 Methacrylonitrile	67		4.585					ND	
47 Chlorobromomethane	128		4.585					ND	
49 Tetrahydrofuran	42		4.621					ND	
50 Chloroform	83		4.664					ND	
51 1,1,1-Trichloroethane	97		4.792					ND	
52 Cyclohexane	56		4.810					ND	
53 Carbon tetrachloride	117		4.932					ND	
54 1,1-Dichloropropene	75		4.944					ND	
55 Benzene	78		5.138					ND	
56 Isobutyl alcohol	43		5.145					ND	
146 Isooctane	57		5.169					ND	U
57 1,2-Dichloroethane	62		5.187					ND	
140 t-Amyl alcohol	59		5.193					ND	
58 Tert-amyl methyl ether	73		5.230					ND	
59 n-Heptane	43		5.345					ND	
1 1,4-Difluorobenzene	114		5.516					ND	
61 n-Butanol	56		5.747					ND	
60 Trichloroethene	95		5.747					ND	
145 Ethyl acrylate	55		5.862					ND	
62 Methylcyclohexane	83		5.887					ND	
63 1,2-Dichloropropane	63		5.972					ND	
65 Methyl methacrylate	41		6.081					ND	
64 Dibromomethane	93		6.106					ND	
66 1,4-Dioxane	88		6.118					ND	
67 Dichlorobromomethane	83		6.258					ND	
68 2-Nitropropane	43		6.489					ND	
69 2-Chloroethyl vinyl ether	63		6.544					ND	
70 Epichlorohydrin	57		6.617					ND	
71 cis-1,3-Dichloropropene	75		6.678					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824					ND	U
73 Toluene	92		6.982					ND	
74 2-Methylthiophene	97		7.109					ND	
75 trans-1,3-Dichloropropene	75		7.243					ND	
76 3-Methylthiophene	97		7.274					ND	
77 Ethyl methacrylate	69		7.304					ND	
78 1,1,2-Trichloroethane	83		7.432					ND	
79 Tetrachloroethene	166		7.517					ND	
80 1,3-Dichloropropane	76		7.590					ND	
82 2-Hexanone	43		7.663					ND	
149 n-Butyl acetate	43		7.785					ND	
83 Chlorodibromomethane	129		7.827					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
84 Ethylene Dibromide	107		7.931					ND	
139 1-Chlorohexane	55		8.381					ND	U
86 3-Chlorobenzotrifluoride	180		8.393					ND	
85 Chlorobenzene	112		8.424					ND	
87 4-Chlorobenzotrifluoride	180		8.460					ND	
89 1,1,1,2-Tetrachloroethane	131		8.515					ND	
88 Ethylbenzene	91		8.521					ND	
90 m-Xylene & p-Xylene	106		8.643					ND	
91 o-Xylene	106		9.068					ND	
92 Styrene	104		9.093					ND	
93 Bromoform	173		9.324					ND	
94 2-Chlorobenzotrifluoride	180		9.366					ND	
95 Isopropylbenzene	105		9.458					ND	
96 Cyclohexanone	55	9.610	9.586	0.018	1	288		0.3744	
97 Bromobenzene	156		9.792					ND	
98 1,1,2,2-Tetrachloroethane	83		9.835					ND	
99 1,2,3-Trichloropropane	110		9.865					ND	
101 trans-1,4-Dichloro-2-buten	53		9.884					ND	
100 N-Propylbenzene	91		9.890					ND	
102 2-Chlorotoluene	126		9.987					ND	
103 3-Chlorotoluene	126		10.048					ND	
104 1,3,5-Trimethylbenzene	105		10.066					ND	
105 4-Chlorotoluene	91		10.091					ND	
106 tert-Butylbenzene	134		10.389					ND	
107 Pentachloroethane	167		10.431					ND	
108 1,2,4-Trimethylbenzene	105		10.437					ND	
109 sec-Butylbenzene	105		10.595					ND	
110 1,3-Dichlorobenzene	146		10.723					ND	
111 4-Isopropyltoluene	119		10.741					ND	
113 1,4-Dichlorobenzene	146		10.808					ND	
114 1,2,3-Trimethylbenzene	105		10.845					ND	
143 Benzyl chloride	126		10.948					ND	
115 n-Butylbenzene	91		11.125					ND	
116 1,2-Dichlorobenzene	146		11.161					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879					ND	
118 1,3,5-Trichlorobenzene	180		12.037					ND	
119 1,2,4-Trichlorobenzene	180		12.573					ND	
120 Hexachlorobutadiene	225		12.700					ND	
121 Naphthalene	128		12.786					ND	
122 1,2,3-Trichlorobenzene	180		12.986					ND	
142 2-Methylnaphthalene	142		13.704					ND	
133 Halothane	1		0.000					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	U
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 132 Bromoethane TIC	1		0.000						ND
T 10 Ethylene oxide	1		0.000						ND
T 129 tert-amyl alcohol TIC	1		0.000						ND
T 135 1-Bromopropane TIC	1		0.000						ND
T 9 bis(2-chloromethyl)ether T	1		0.000						ND
T 127 Ethanol TIC	1		0.000						ND
T 128 Hexachloroethane TIC	117		0.000						ND
T 130 Propene oxide TIC	1		0.000						ND

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7297.D

Injection Date: 25-Feb-2018 11:12:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

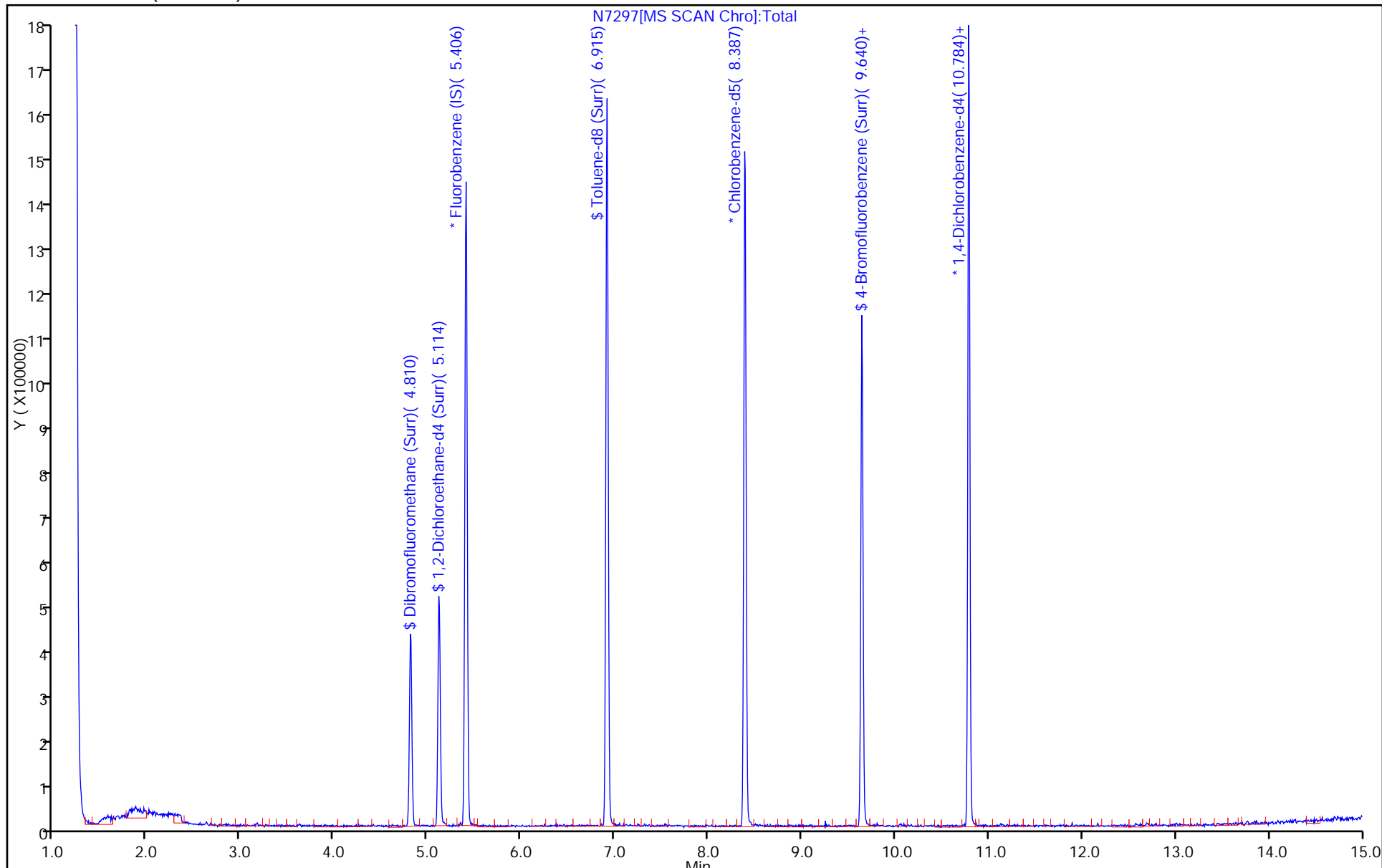
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

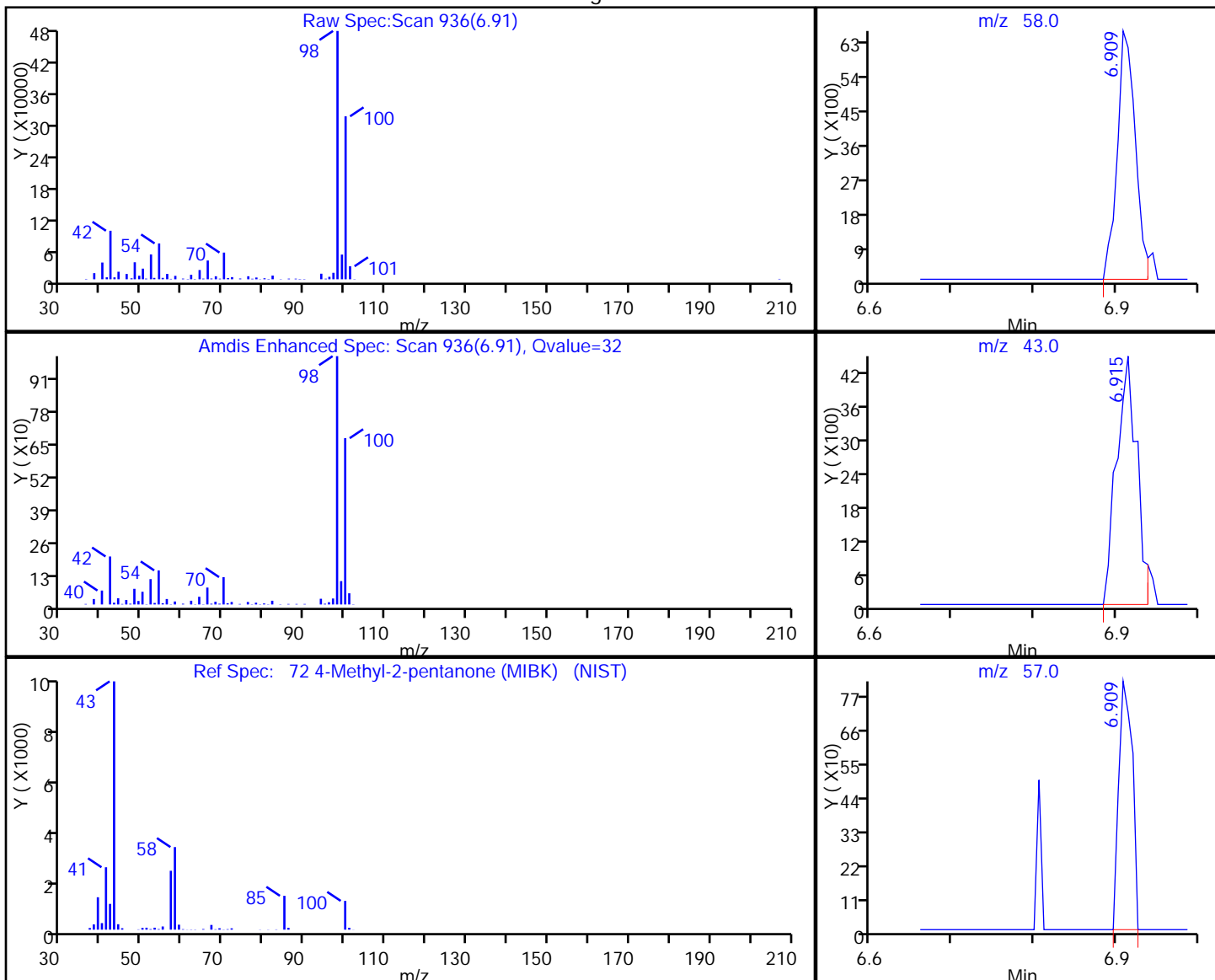


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7297.D
 Injection Date: 25-Feb-2018 11:12:30 Instrument ID: HP5973N
 Lims ID: MB
 Client ID:
 Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.91	58.00	10115	1.270722
6.91	43.00	7762	
6.91	57.00	930	

Reviewer: moffata, 25-Feb-2018 11:37:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401400/7
 Matrix: Water Lab File ID: N7313.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 11:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401400/7
 Matrix: Water Lab File ID: N7313.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 11:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401400/7
 Matrix: Water Lab File ID: N7313.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 11:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7313.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 26-Feb-2018 11:04:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0069487-007
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 12:01:35 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: moffata Date: 26-Feb-2018 12:56:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.400	5.406	-0.006	97	202407	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	91	762080	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	96	391255	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	94	241634	25.0	26.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	301160	25.0	24.1	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	947500	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	-0.001	88	310163	25.0	26.1	
11 Dichlorodifluoromethane	85		1.324					ND	
12 Chlorodifluoromethane	51		1.348					ND	U
13 Chloromethane	50		1.495					ND	
14 Vinyl chloride	62		1.580					ND	
144 Butadiene	54		1.616					ND	
15 Bromomethane	94		1.872					ND	
16 Chloroethane	64		1.975					ND	
18 Trichlorofluoromethane	101		2.176					ND	
17 Dichlorofluoromethane	67		2.188					ND	
141 Ethanol	45		2.456					ND	
19 Ethyl ether	59		2.474					ND	
81 Propene oxide	58		2.547					ND	
20 Acrolein	56		2.626					ND	U
22 1,1-Dichloroethene	96		2.675					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.693					ND	
23 Acetone	43		2.778					ND	U
24 Iodomethane	142		2.827					ND	
26 Isopropyl alcohol	45		2.960					ND	
27 3-Chloro-1-propene	41		3.034					ND	
29 Acetonitrile	40		3.058					ND	
28 Methyl acetate	43		3.076					ND	
30 Methylene Chloride	84		3.168					ND	
31 2-Methyl-2-propanol	59		3.326					ND	
32 Methyl tert-butyl ether	73		3.399					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 trans-1,2-Dichloroethene	96		3.405					ND	
34 Acrylonitrile	53		3.429					ND	
35 Hexane	57		3.618					ND	
36 1,1-Dichloroethane	63		3.806					ND	
37 Isopropyl ether	45		3.849					ND	
38 2-Chloro-1,3-butadiene	53		3.879					ND	
40 1,1-Dimethoxyethane	75		3.910					ND	
41 Tert-butyl ethyl ether	59		4.183					ND	
42 2,2-Dichloropropane	77		4.330					ND	
43 cis-1,2-Dichloroethene	96		4.354					ND	
44 2-Butanone (MEK)	43		4.378					ND	
46 Propionitrile	54		4.463					ND	
48 Methacrylonitrile	67		4.585					ND	
47 Chlorobromomethane	128		4.585					ND	
50 Chloroform	83		4.664					ND	
51 1,1,1-Trichloroethane	97		4.786					ND	
52 Cyclohexane	56		4.810					ND	
53 Carbon tetrachloride	117		4.932					ND	
54 1,1-Dichloropropene	75		4.944					ND	
56 Isobutyl alcohol	43		5.127					ND	
55 Benzene	78		5.139					ND	
146 Isooctane	57		5.169					ND	U
57 1,2-Dichloroethane	62		5.187					ND	
140 t-Amyl alcohol	59		5.193					ND	
58 Tert-amyl methyl ether	73		5.230					ND	
59 n-Heptane	43		5.346					ND	
1 1,4-Difluorobenzene	114		5.516					ND	
61 n-Butanol	56		5.747					ND	
60 Trichloroethene	95		5.747					ND	
145 Ethyl acrylate	55		5.862					ND	
62 Methylcyclohexane	83		5.887					ND	
63 1,2-Dichloropropane	63		5.972					ND	
65 Methyl methacrylate	41		6.081					ND	
64 Dibromomethane	93		6.106					ND	
66 1,4-Dioxane	88		6.112					ND	
67 Dichlorobromomethane	83		6.258					ND	
68 2-Nitropropane	43		6.489					ND	
69 2-Chloroethyl vinyl ether	63		6.538					ND	
70 Epichlorohydrin	57		6.617					ND	
71 cis-1,3-Dichloropropene	75		6.678					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824					ND	U
73 Toluene	92		6.976					ND	
74 2-Methylthiophene	97		7.109					ND	
75 trans-1,3-Dichloropropene	75		7.238					ND	
76 3-Methylthiophene	97		7.274					ND	
77 Ethyl methacrylate	69		7.304					ND	
78 1,1,2-Trichloroethane	83		7.426					ND	
79 Tetrachloroethene	166		7.517					ND	
80 1,3-Dichloropropane	76		7.590					ND	
82 2-Hexanone	43		7.657					ND	
149 n-Butyl acetate	43		7.785					ND	
83 Chlorodibromomethane	129		7.822					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
84 Ethylene Dibromide	107		7.931					ND	
139 1-Chlorohexane	55		8.381					ND	U
86 3-Chlorobenzotrifluoride	180		8.393					ND	
85 Chlorobenzene	112		8.418					ND	
87 4-Chlorobenzotrifluoride	180		8.460					ND	
89 1,1,1,2-Tetrachloroethane	131		8.515					ND	
88 Ethylbenzene	91		8.521					ND	
90 m-Xylene & p-Xylene	106		8.643					ND	
91 o-Xylene	106		9.069					ND	
92 Styrene	104		9.093					ND	
93 Bromoform	173		9.324					ND	
94 2-Chlorobenzotrifluoride	180		9.366					ND	
95 Isopropylbenzene	105		9.458					ND	
96 Cyclohexanone	55		9.592					ND	U
97 Bromobenzene	156		9.793					ND	
98 1,1,2,2-Tetrachloroethane	83		9.829					ND	
99 1,2,3-Trichloropropane	110		9.860					ND	
101 trans-1,4-Dichloro-2-buten	53		9.878					ND	
100 N-Propylbenzene	91		9.884					ND	
102 2-Chlorotoluene	126		9.981					ND	
103 3-Chlorotoluene	126		10.048					ND	
104 1,3,5-Trimethylbenzene	105		10.066					ND	
105 4-Chlorotoluene	91		10.091					ND	
106 tert-Butylbenzene	134		10.383					ND	
107 Pentachloroethane	167		10.431					ND	
108 1,2,4-Trimethylbenzene	105		10.437					ND	
109 sec-Butylbenzene	105		10.596					ND	
110 1,3-Dichlorobenzene	146		10.723					ND	
111 4-Isopropyltoluene	119		10.742					ND	
112 Dicyclopentadiene	66		10.802					ND	
113 1,4-Dichlorobenzene	146		10.809					ND	
114 1,2,3-Trimethylbenzene	105		10.845					ND	
143 Benzyl chloride	126		10.948					ND	
115 n-Butylbenzene	91		11.125					ND	
116 1,2-Dichlorobenzene	146		11.161					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879					ND	
118 1,3,5-Trichlorobenzene	180		12.037					ND	
119 1,2,4-Trichlorobenzene	180		12.573					ND	
120 Hexachlorobutadiene	225		12.701					ND	
121 Naphthalene	128		12.780					ND	
122 1,2,3-Trichlorobenzene	180		12.987					ND	
142 2-Methylnaphthalene	142		13.704					ND	U
138 1-Bromopropane	1		0.000					ND	
133 Halothane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	U
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
T 135 1-Bromopropane TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7313.D

Injection Date: 26-Feb-2018 11:04:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

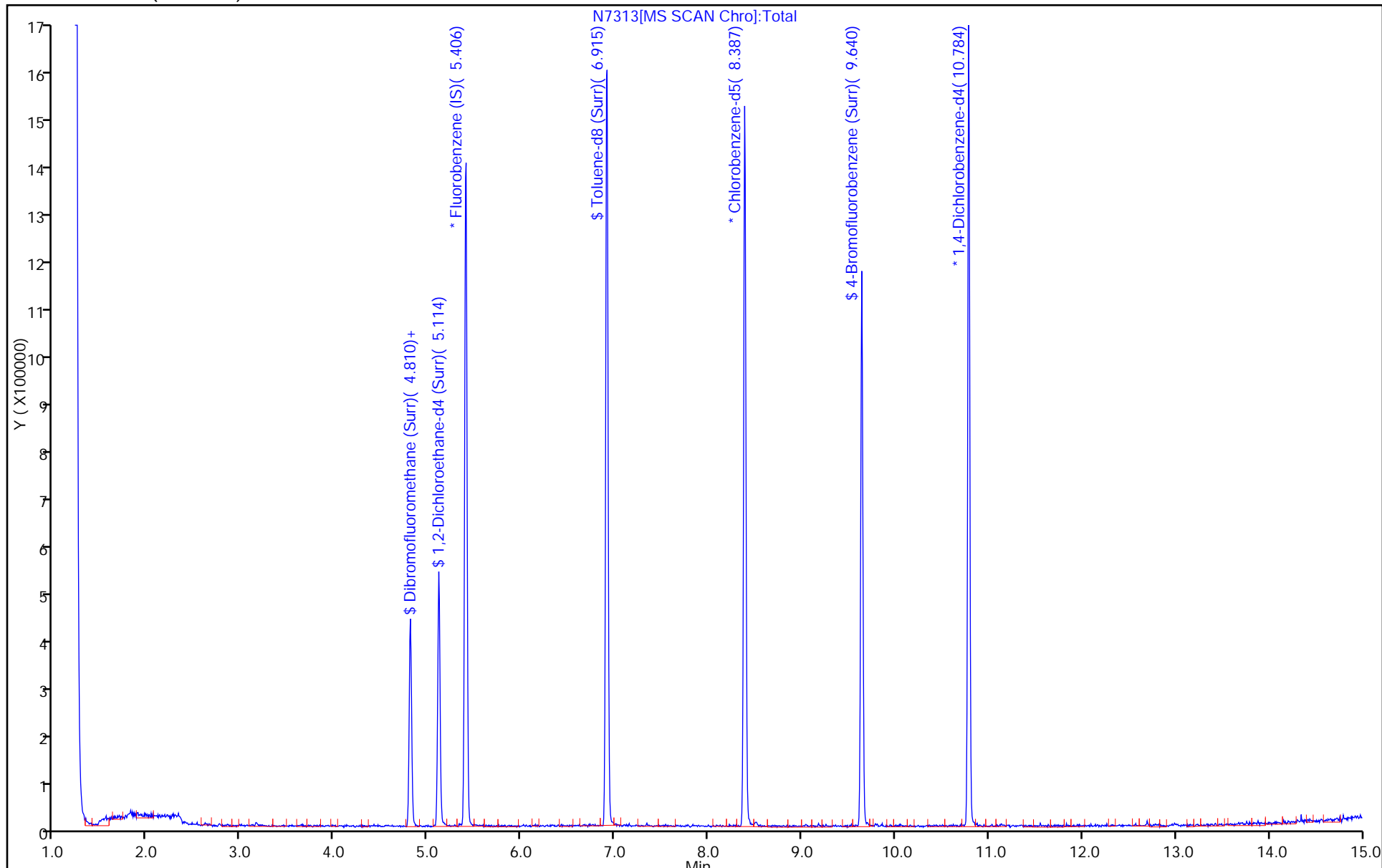
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7313.D

Injection Date: 26-Feb-2018 11:04:30

Instrument ID: HP5973N

Lims ID: MB

Client ID:

Operator ID: AM

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

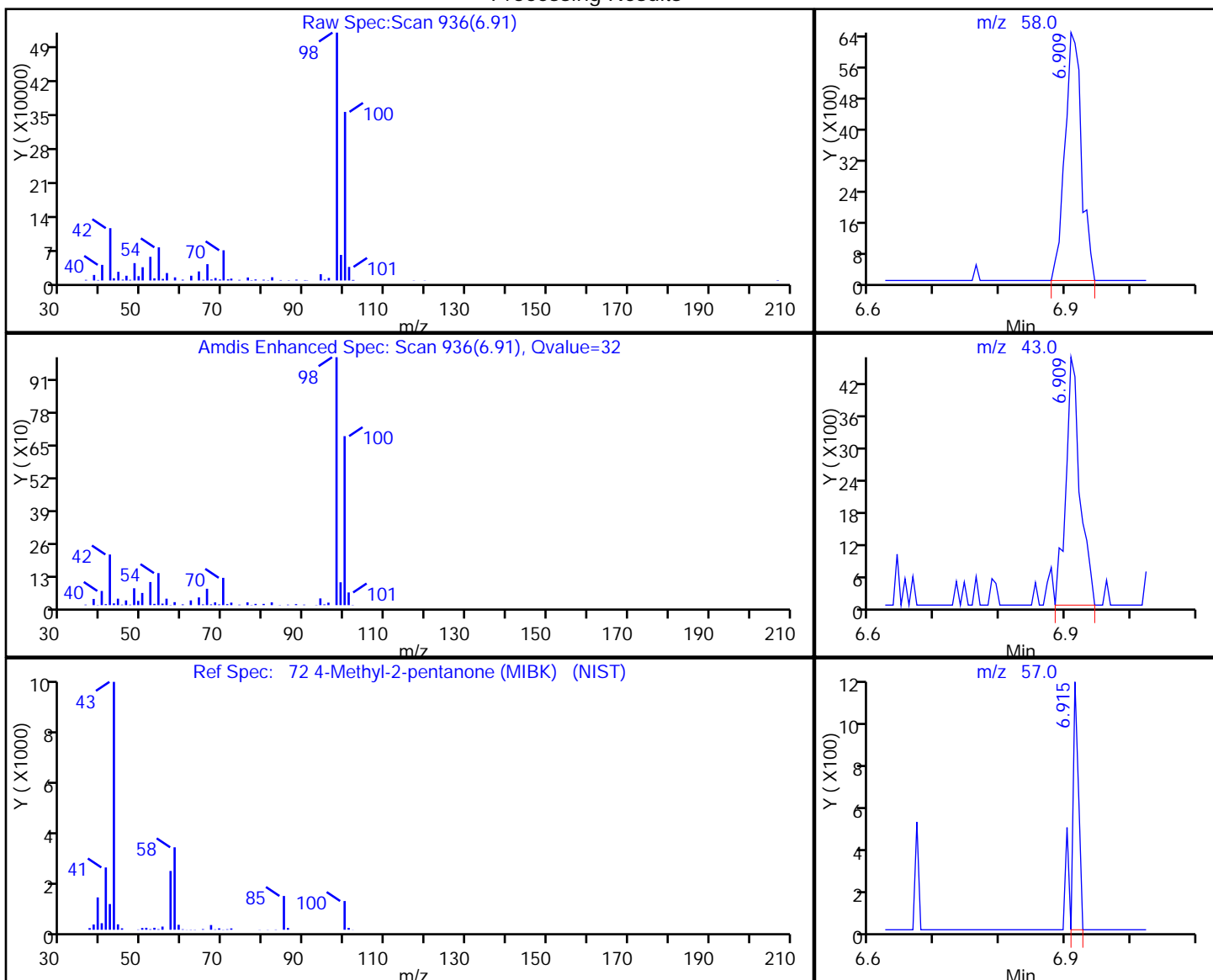
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.91	58.00	11444	1.396541
6.91	43.00	6925	
6.91	57.00	661	

Reviewer: moffata, 26-Feb-2018 12:01:35

Audit Action: Marked Compound Undetected

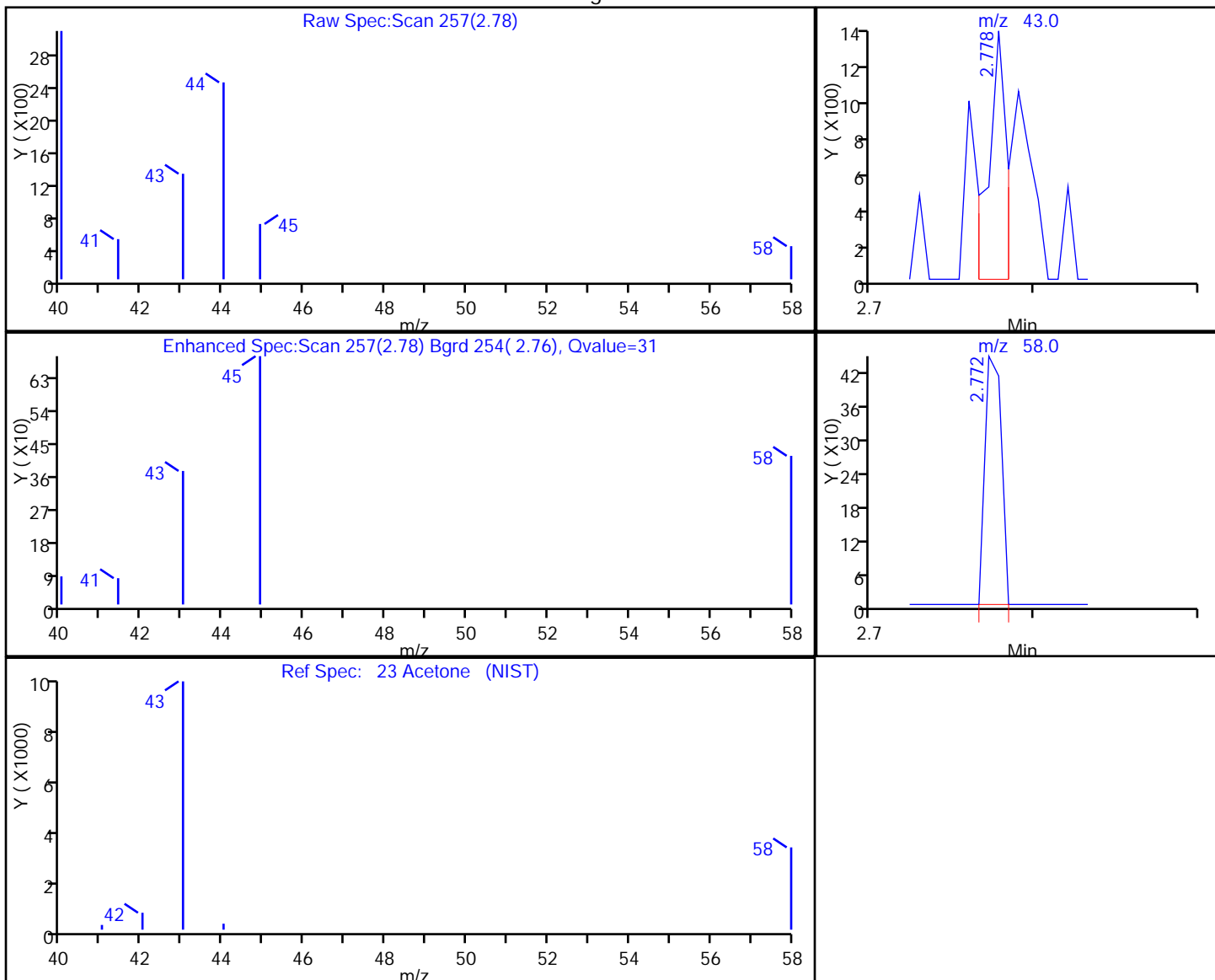
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7313.D
Injection Date: 26-Feb-2018 11:04:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.78	43.00	1035	0.150065
2.77	58.00	315	

Reviewer: moffata, 26-Feb-2018 12:01:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401795/7
 Matrix: Water Lab File ID: N7372.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 10:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401795/7
 Matrix: Water Lab File ID: N7372.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 10:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401795/7
 Matrix: Water Lab File ID: N7372.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 10:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7372.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Feb-2018 10:56:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0069548-007
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Feb-2018 11:18:22 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: farrellr Date: 28-Feb-2018 11:55:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	173080	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	91	680443	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	96	340516	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.821	0.000	93	201492	25.0	26.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	271877	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	787917	25.0	23.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.640	0.006	91	253023	25.0	23.9	
11 Dichlorodifluoromethane	85		1.336					ND	
12 Chlorodifluoromethane	51		1.348					ND	U
13 Chloromethane	50		1.507					ND	
14 Vinyl chloride	62		1.586					ND	
144 Butadiene	54		1.616					ND	
15 Bromomethane	94		1.896					ND	
16 Chloroethane	64		1.987					ND	
17 Dichlorofluoromethane	67		2.188					ND	
18 Trichlorofluoromethane	101		2.200					ND	
141 Ethanol	45		2.456					ND	
19 Ethyl ether	59		2.486					ND	
81 Propene oxide	58		2.547					ND	
20 Acrolein	56		2.638					ND	
22 1,1-Dichloroethene	96		2.687					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699					ND	
23 Acetone	43		2.790					ND	
24 Iodomethane	142		2.839					ND	
25 Carbon disulfide	76		2.888					ND	
26 Isopropyl alcohol	45		2.960					ND	U
27 3-Chloro-1-propene	41		3.046					ND	
29 Acetonitrile	40		3.058					ND	
28 Methyl acetate	43		3.088					ND	
30 Methylene Chloride	84		3.180					ND	
31 2-Methyl-2-propanol	59		3.344					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.411					ND	
33 trans-1,2-Dichloroethene	96		3.417					ND	
34 Acrylonitrile	53		3.435					ND	
35 Hexane	57		3.630					ND	
36 1,1-Dichloroethane	63		3.818					ND	
37 Isopropyl ether	45		3.849					ND	
39 Vinyl acetate	43		3.873					ND	
38 2-Chloro-1,3-butadiene	53		3.879					ND	
40 1,1-Dimethoxyethane	75		3.910					ND	
41 Tert-butyl ethyl ether	59		4.183					ND	
42 2,2-Dichloropropane	77		4.335					ND	
43 cis-1,2-Dichloroethene	96		4.360					ND	
44 2-Butanone (MEK)	43		4.390					ND	
45 Ethyl acetate	43		4.427					ND	
46 Propionitrile	54		4.463					ND	
48 Methacrylonitrile	67		4.585					ND	
47 Chlorobromomethane	128		4.591					ND	
49 Tetrahydrofuran	42		4.621					ND	
50 Chloroform	83		4.664					ND	
51 1,1,1-Trichloroethane	97		4.798					ND	
52 Cyclohexane	56		4.822					ND	
53 Carbon tetrachloride	117		4.944					ND	
54 1,1-Dichloropropene	75		4.950					ND	
56 Isobutyl alcohol	43		5.132					ND	
55 Benzene	78		5.145					ND	
146 Isooctane	57		5.169					ND	
140 t-Amyl alcohol	59		5.193					ND	
57 1,2-Dichloroethane	62		5.193					ND	
58 Tert-amyl methyl ether	73		5.230					ND	
59 n-Heptane	43		5.351					ND	
1 1,4-Difluorobenzene	114		5.516					ND	
61 n-Butanol	56		5.747					ND	
60 Trichloroethene	95		5.753					ND	
145 Ethyl acrylate	55		5.862					ND	
62 Methylcyclohexane	83		5.893					ND	
63 1,2-Dichloropropane	63		5.978					ND	
65 Methyl methacrylate	41		6.081					ND	
64 Dibromomethane	93		6.106					ND	
66 1,4-Dioxane	88		6.118					ND	
67 Dichlorobromomethane	83		6.258					ND	
68 2-Nitropropane	43		6.489					ND	
69 2-Chloroethyl vinyl ether	63		6.544					ND	
70 Epichlorohydrin	57		6.617					ND	
71 cis-1,3-Dichloropropene	75		6.684					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.824					ND	U
73 Toluene	92		6.982					ND	
74 2-Methylthiophene	97		7.109					ND	
75 trans-1,3-Dichloropropene	75		7.243					ND	
76 3-Methylthiophene	97		7.274					ND	
77 Ethyl methacrylate	69		7.304					ND	
78 1,1,2-Trichloroethane	83		7.426					ND	
79 Tetrachloroethene	166		7.523					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	DI RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.590					ND	
82 2-Hexanone	43		7.663					ND	
149 n-Butyl acetate	43		7.785					ND	
83 Chlorodibromomethane	129		7.827					ND	
84 Ethylene Dibromide	107		7.931					ND	
139 1-Chlorohexane	55		8.381					ND	U
86 3-Chlorobenzotrifluoride	180		8.393					ND	
85 Chlorobenzene	112		8.418					ND	
87 4-Chlorobenzotrifluoride	180		8.460					ND	
89 1,1,1,2-Tetrachloroethane	131		8.515					ND	
88 Ethylbenzene	91		8.521					ND	
90 m-Xylene & p-Xylene	106		8.649					ND	
91 o-Xylene	106		9.069					ND	
92 Styrene	104		9.093					ND	
93 Bromoform	173		9.324					ND	
94 2-Chlorobenzotrifluoride	180		9.366					ND	
95 Isopropylbenzene	105		9.458					ND	
96 Cyclohexanone	55		9.592					ND	U
97 Bromobenzene	156		9.792					ND	
98 1,1,2,2-Tetrachloroethane	83		9.829					ND	
99 1,2,3-Trichloropropane	110		9.859					ND	
100 N-Propylbenzene	91		9.884					ND	
101 trans-1,4-Dichloro-2-buten	53		9.884					ND	
102 2-Chlorotoluene	126		9.981					ND	
103 3-Chlorotoluene	126		10.048					ND	
104 1,3,5-Trimethylbenzene	105		10.066					ND	
105 4-Chlorotoluene	91		10.097					ND	
106 tert-Butylbenzene	134		10.389					ND	
107 Pentachloroethane	167		10.431					ND	
108 1,2,4-Trimethylbenzene	105		10.437					ND	
109 sec-Butylbenzene	105		10.595					ND	
110 1,3-Dichlorobenzene	146		10.723					ND	
111 4-Isopropyltoluene	119		10.741					ND	
112 Dicyclopentadiene	66		10.802					ND	
113 1,4-Dichlorobenzene	146		10.808					ND	
114 1,2,3-Trimethylbenzene	105		10.845					ND	
143 Benzyl chloride	126		10.948					ND	
115 n-Butylbenzene	91		11.125					ND	
116 1,2-Dichlorobenzene	146		11.161					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.879					ND	
118 1,3,5-Trichlorobenzene	180		12.037					ND	
119 1,2,4-Trichlorobenzene	180		12.573					ND	
120 Hexachlorobutadiene	225		12.700					ND	
121 Naphthalene	128		12.786					ND	
122 1,2,3-Trichlorobenzene	180		12.986					ND	
142 2-Methylnaphthalene	142		13.704					ND	
138 1-Bromopropane	1		0.000					ND	
133 Halothane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	U
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7372.D

Injection Date: 28-Feb-2018 10:56:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

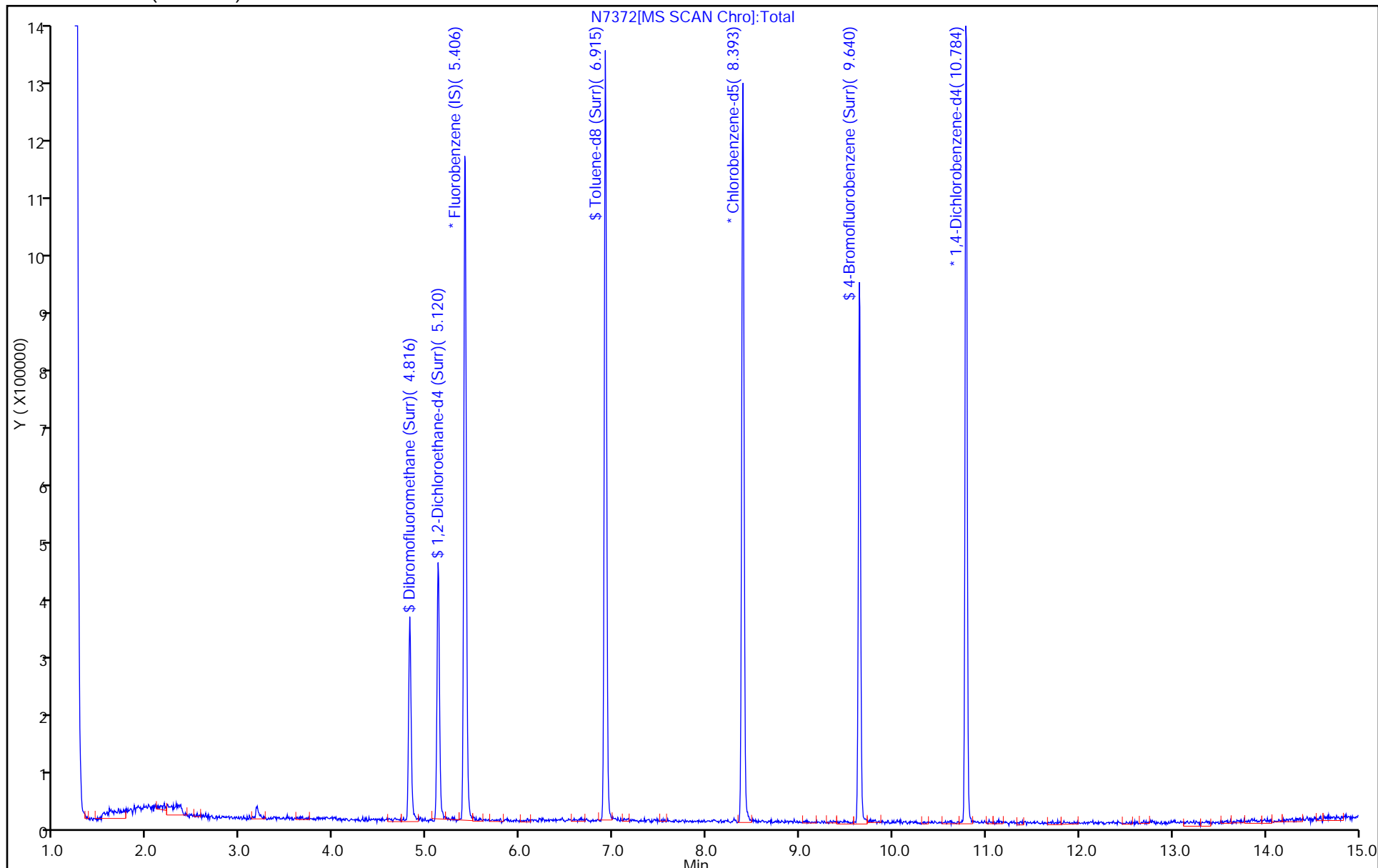
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

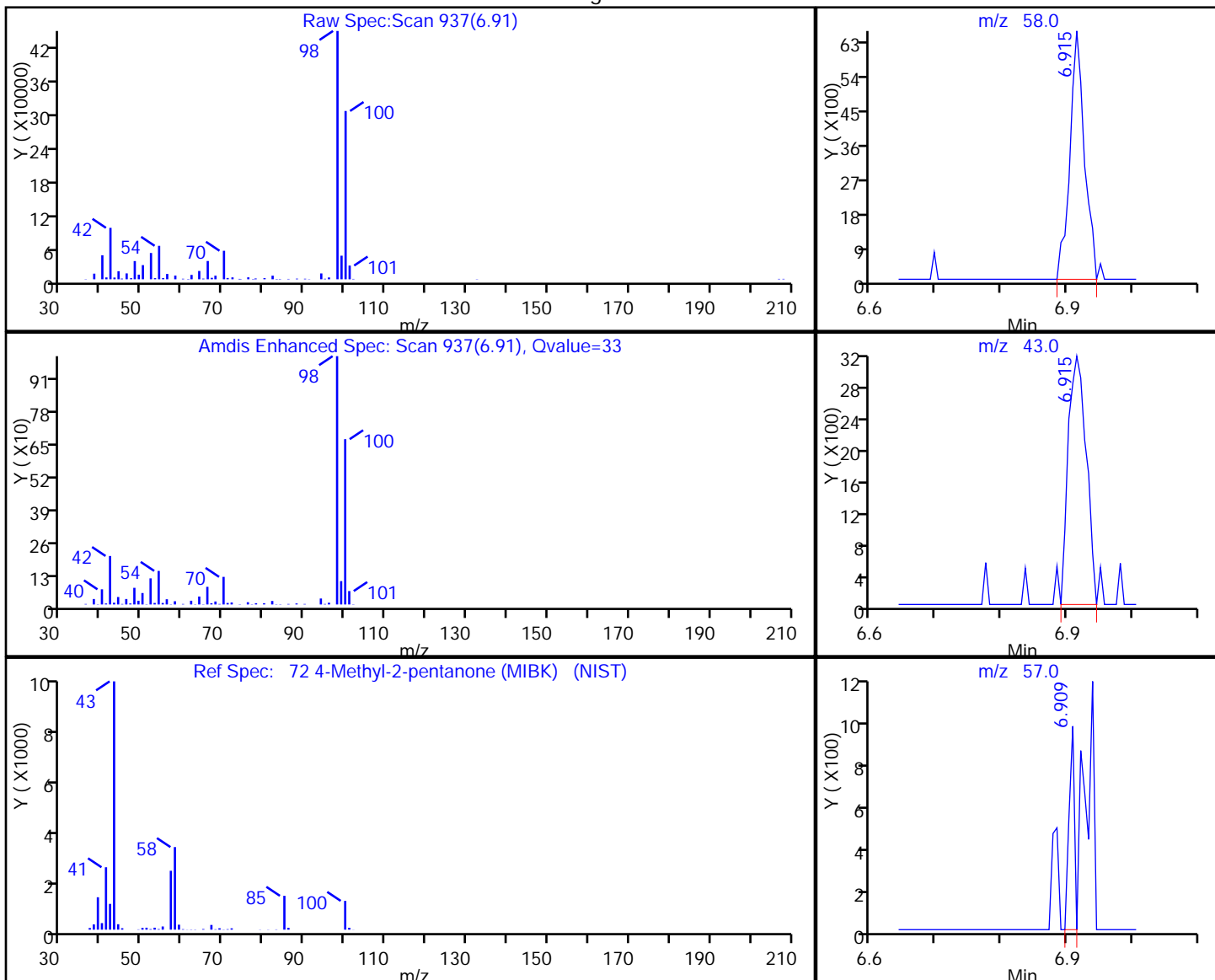


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7372.D
 Injection Date: 28-Feb-2018 10:56:30 Instrument ID: HP5973N
 Lims ID: MB
 Client ID:
 Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: N-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.91	58.00	10180	1.391338
6.91	43.00	5940	
6.91	57.00	545	

Reviewer: farrellr, 28-Feb-2018 11:55:12

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401358/5
 Matrix: Water Lab File ID: S7854.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	23.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.1		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.6		1.0	0.31
75-34-3	1,1-Dichloroethane	25.0		1.0	0.38
75-35-4	1,1-Dichloroethene	24.8		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	22.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.2		1.0	0.79
107-06-2	1,2-Dichloroethane	25.0		1.0	0.21
78-87-5	1,2-Dichloropropane	25.4		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.3		1.0	0.84
78-93-3	2-Butanone (MEK)	126		10	1.3
591-78-6	2-Hexanone	121		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	127		5.0	2.1
67-64-1	Acetone	124		10	3.0
71-43-2	Benzene	24.9		1.0	0.41
75-27-4	Bromodichloromethane	23.7		1.0	0.39
75-25-2	Bromoform	22.6		1.0	0.26
74-83-9	Bromomethane	24.2		1.0	0.69
75-15-0	Carbon disulfide	21.0		1.0	0.19
56-23-5	Carbon tetrachloride	22.0		1.0	0.27
108-90-7	Chlorobenzene	24.4		1.0	0.75
124-48-1	Dibromochloromethane	23.3		1.0	0.32
75-00-3	Chloroethane	26.7		1.0	0.32
67-66-3	Chloroform	24.6		1.0	0.34
74-87-3	Chloromethane	23.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.9		1.0	0.36
110-82-7	Cyclohexane	23.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	25.9		1.0	0.68
100-41-4	Ethylbenzene	23.7		1.0	0.74
106-93-4	1,2-Dibromoethane	24.7		1.0	0.73
98-82-8	Isopropylbenzene	23.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401358/5
 Matrix: Water Lab File ID: S7854.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	53.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.0		1.0	0.16
108-87-2	Methylcyclohexane	24.0		1.0	0.16
75-09-2	Methylene Chloride	22.3		1.0	0.44
100-42-5	Styrene	23.9		1.0	0.73
127-18-4	Tetrachloroethene	24.2		1.0	0.36
108-88-3	Toluene	23.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.6		1.0	0.37
79-01-6	Trichloroethene	23.4		1.0	0.46
75-69-4	Trichlorofluoromethane	26.8		1.0	0.88
75-01-4	Vinyl chloride	26.4		1.0	0.90
1330-20-7	Xylenes, Total	46.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7854.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 25-Feb-2018 10:01:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0069476-005
 Operator ID: AM Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 12:02:57 Calib Date: 10-Jan-2018 07:40:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180109-68466.b\S6381.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata Date: 25-Feb-2018 12:02:57

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.418	5.412	0.006	99	135806	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.405	8.406	-0.001	85	293212	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.796	10.796	0.000	55	309734	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.828	4.834	0.000	78	176627	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.139	5.139	0.000	0	104616	25.0	25.0	
\$ 5 Toluene-d8 (Surr)	98	6.927	6.927	0.000	90	729468	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.659	9.659	0.000	94	246153	25.0	24.1	
10 Dichlorodifluoromethane	85	1.245	1.245	0.000	87	187930	25.0	25.9	
12 Chloromethane	50	1.422	1.416	0.006	87	173943	25.0	23.2	
13 Vinyl chloride	62	1.501	1.501	0.000	79	207634	25.0	26.4	
151 Butadiene	54	1.525	1.519	0.000	89	187947	25.0	24.0	
14 Bromomethane	94	1.823	1.817	0.006	90	143213	25.0	24.2	
15 Chloroethane	64	1.896	1.896	0.000	94	131149	25.0	26.7	
16 Dichlorofluoromethane	67	2.115	2.115	0.000	82	295992	25.0	24.8	
17 Trichlorofluoromethane	101	2.127	2.127	0.000	98	252202	25.0	26.8	M
18 Ethyl ether	59	2.431	2.432	-0.001	86	149160	25.0	26.6	
20 Acrolein	56	2.608	2.602	0.006	97	158487	125.0	119.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.626	2.626	0.000	83	122765	25.0	22.6	
22 1,1-Dichloroethene	96	2.638	2.638	0.000	83	141001	25.0	24.8	M
23 Acetone	43	2.766	2.766	0.000	99	324106	125.0	124.0	
25 Iodomethane	142	2.802	2.797	0.005	96	258308	25.0	24.3	
26 Carbon disulfide	76	2.839	2.839	0.000	98	406998	25.0	21.0	
28 3-Chloro-1-propene	41	3.015	3.016	-0.001	88	192851	25.0	21.8	
27 Methyl acetate	43	3.070	3.064	0.006	93	250120	50.0	53.1	
30 Methylene Chloride	84	3.155	3.155	0.000	79	166514	25.0	22.3	
31 2-Methyl-2-propanol	59	3.332	3.332	0.000	97	176224	250.0	295.7	
32 Methyl tert-butyl ether	73	3.380	3.381	-0.001	87	551711	25.0	25.0	
34 trans-1,2-Dichloroethene	96	3.393	3.387	0.006	72	165856	25.0	23.9	
33 Acrylonitrile	53	3.435	3.435	0.000	98	661697	250.0	266.9	
35 Hexane	57	3.593	3.593	0.000	86	218636	25.0	23.8	
39 1,1-Dichloroethane	63	3.806	3.806	0.000	85	271844	25.0	25.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.867	3.867	0.000	97	644765	50.0	51.6	
44 2,2-Dichloropropane	77	4.329	4.330	-0.001	87	205047	25.0	22.7	
45 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	77	195848	25.0	24.7	
43 2-Butanone (MEK)	43	4.402	4.403	-0.001	92	413494	125.0	126.3	
48 Chlorobromomethane	128	4.597	4.597	0.000	82	104229	25.0	25.9	
49 Tetrahydrofuran	42	4.628	4.628	0.000	79	110547	50.0	51.7	
50 Chloroform	83	4.670	4.670	0.000	69	292136	25.0	24.6	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	92	236596	25.0	23.2	
52 Cyclohexane	56	4.804	4.804	0.000	86	218651	25.0	23.1	
55 Carbon tetrachloride	117	4.932	4.932	0.000	79	203187	25.0	22.0	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	96	225830	25.0	24.7	
57 Benzene	78	5.145	5.145	0.000	97	700201	25.0	24.9	
53 Isobutyl alcohol	43	5.157	5.157	0.000	52	193803	625.0	589.3	
58 1,2-Dichloroethane	62	5.212	5.206	0.006	82	230593	25.0	25.0	
59 n-Heptane	43	5.333	5.339	-0.006	87	224763	25.0	24.5	
62 Trichloroethene	95	5.759	5.759	0.000	92	173429	25.0	23.4	
64 Methylcyclohexane	83	5.881	5.887	-0.006	84	286321	25.0	24.0	
65 1,2-Dichloropropane	63	5.996	5.990	0.006	91	162538	25.0	25.4	
67 Dibromomethane	93	6.130	6.130	0.000	86	115362	25.0	25.4	
66 1,4-Dioxane	88	6.148	6.167	-0.001	50	47564	500.0	491.0	
68 Dichlorobromomethane	83	6.282	6.282	0.000	99	214533	25.0	23.7	
69 2-Chloroethyl vinyl ether	63	6.562	6.562	0.000	92	114810	25.0	26.7	
72 cis-1,3-Dichloropropene	75	6.702	6.702	0.000	89	265106	25.0	24.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.842	6.842	0.000	94	879457	125.0	127.2	
74 Toluene	92	6.994	6.994	0.000	95	459298	25.0	23.7	
77 trans-1,3-Dichloropropene	75	7.268	7.268	0.000	92	251182	25.0	24.6	
75 Ethyl methacrylate	69	7.317	7.317	-0.001	68	242683	25.0	23.6	
79 1,1,2-Trichloroethane	83	7.456	7.457	-0.001	85	139904	25.0	25.3	
81 Tetrachloroethene	166	7.523	7.524	0.000	89	216035	25.0	24.2	
82 1,3-Dichloropropane	76	7.615	7.615	0.000	88	291928	25.0	25.2	
80 2-Hexanone	43	7.682	7.682	0.000	92	641474	125.0	121.4	
83 Chlorodibromomethane	129	7.852	7.852	0.000	90	173071	25.0	23.3	
84 Ethylene Dibromide	107	7.955	7.955	0.000	97	176690	25.0	24.7	
87 Chlorobenzene	112	8.436	8.436	0.000	96	530733	25.0	24.4	
89 1,1,1,2-Tetrachloroethane	131	8.533	8.533	0.000	40	180502	25.0	23.7	
88 Ethylbenzene	91	8.533	8.533	0.000	97	845961	25.0	23.7	
90 m-Xylene & p-Xylene	106	8.655	8.655	0.000	0	336983	25.0	22.8	
91 o-Xylene	106	9.081	9.081	0.000	96	332287	25.0	24.0	
92 Styrene	104	9.105	9.105	0.000	94	567689	25.0	23.9	
95 Bromoform	173	9.348	9.349	-0.001	96	111763	25.0	22.6	
94 Isopropylbenzene	105	9.464	9.464	0.000	95	854681	25.0	23.9	
101 Bromobenzene	156	9.805	9.805	0.000	89	237267	25.0	24.3	
97 1,1,2,2-Tetrachloroethane	83	9.853	9.854	0.000	89	225554	25.0	25.1	
100 1,2,3-Trichloropropane	110	9.890	9.884	0.006	41	79927	25.0	25.0	
99 N-Propylbenzene	91	9.890	9.890	0.000	97	991998	25.0	24.5	
98 trans-1,4-Dichloro-2-buten	53	9.902	9.902	0.000	35	47911	25.0	26.8	
103 2-Chlorotoluene	126	9.993	9.993	0.000	97	216139	25.0	24.5	
102 1,3,5-Trimethylbenzene	105	10.072	10.066	0.006	85	728876	25.0	24.1	
105 4-Chlorotoluene	126	10.103	10.103	0.000	96	225235	25.0	25.0	
106 tert-Butylbenzene	134	10.389	10.389	0.000	90	171311	25.0	23.7	
107 1,2,4-Trimethylbenzene	105	10.443	10.444	-0.001	31	766176	25.0	24.8	
109 sec-Butylbenzene	105	10.596	10.596	0.000	94	934380	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.729	10.730	-0.001	87	463703	25.0	25.2	
110 4-Isopropyltoluene	119	10.735	10.736	-0.001	96	825253	25.0	24.6	
113 1,4-Dichlorobenzene	146	10.815	10.815	0.000	82	466369	25.0	24.3	
115 n-Butylbenzene	91	11.125	11.125	0.000	94	715885	25.0	24.6	
116 1,2-Dichlorobenzene	146	11.167	11.168	-0.001	93	445188	25.0	25.2	
117 1,2-Dibromo-3-Chloropropan	75	11.891	11.892	0.000	84	40731	25.0	22.5	
119 1,2,4-Trichlorobenzene	180	12.573	12.573	0.000	93	328553	25.0	24.3	
120 Hexachlorobutadiene	225	12.688	12.688	0.000	93	138636	25.0	21.4	
121 Naphthalene	128	12.780	12.780	0.000	96	808632	25.0	23.7	
122 1,2,3-Trichlorobenzene	180	12.986	12.987	-0.001	94	306089	25.0	23.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00119	Amount Added: 12.50	Units: uL	
GAS CORP mix_00266	Amount Added: 12.50	Units: uL	
S_8260_IS_00282	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00253	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7854.D

Injection Date: 25-Feb-2018 10:01:30

Instrument ID: HP5973S

Operator ID: AM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

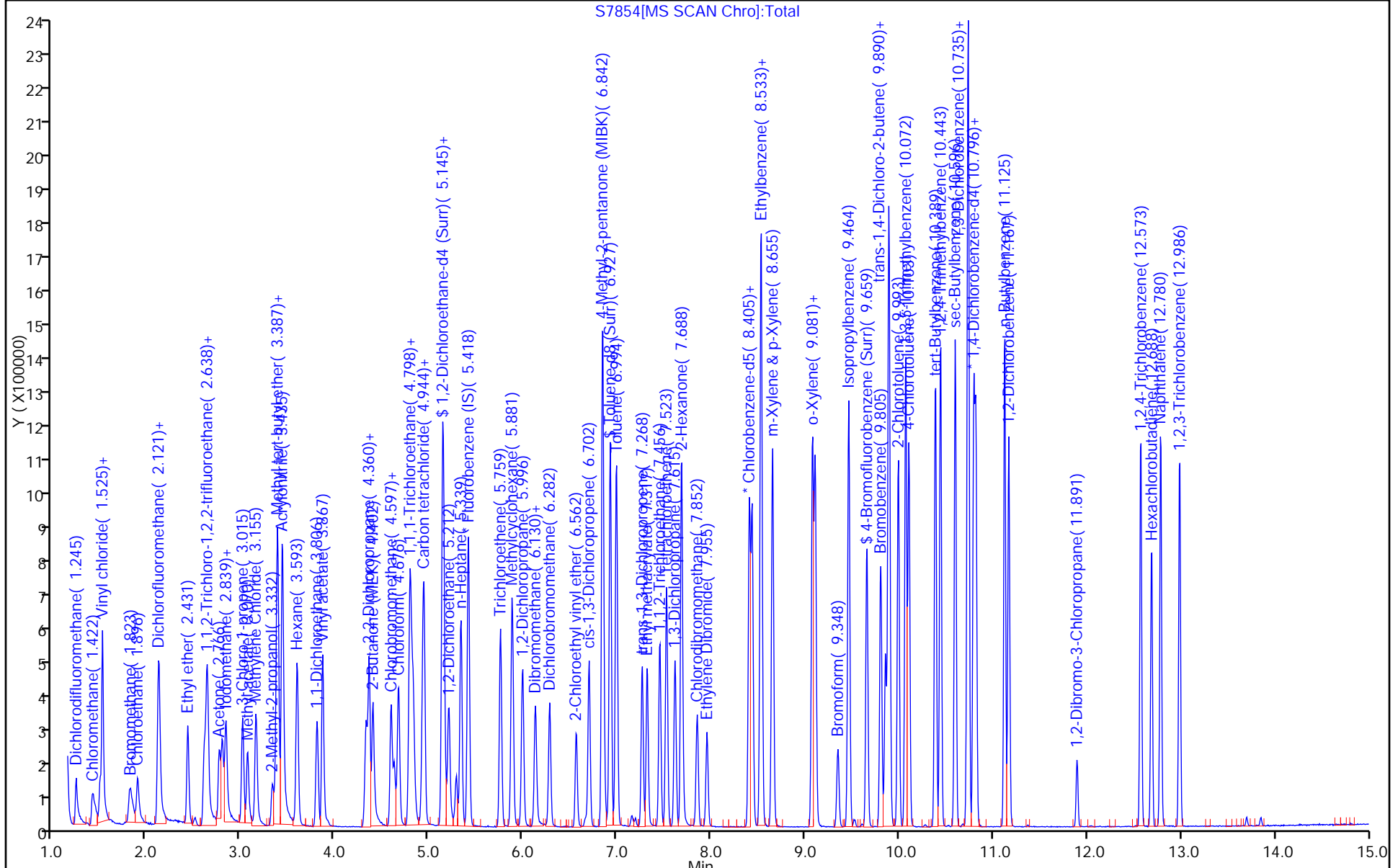
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

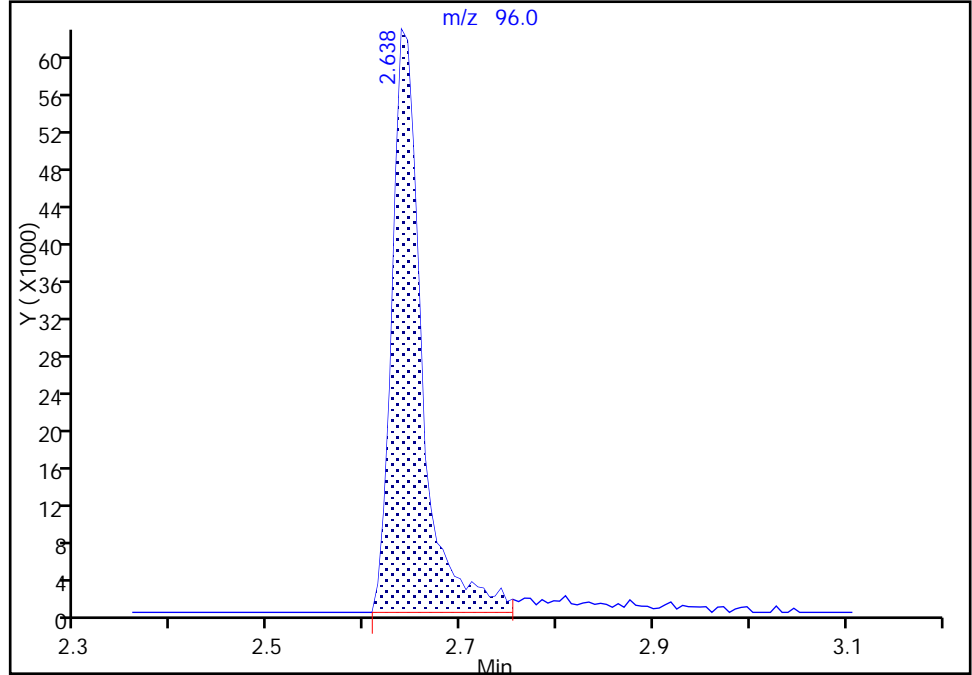
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7854.D
Injection Date: 25-Feb-2018 10:01:30 Instrument ID: HP5973S
Lims ID: LCS
Client ID:
Operator ID: AM ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

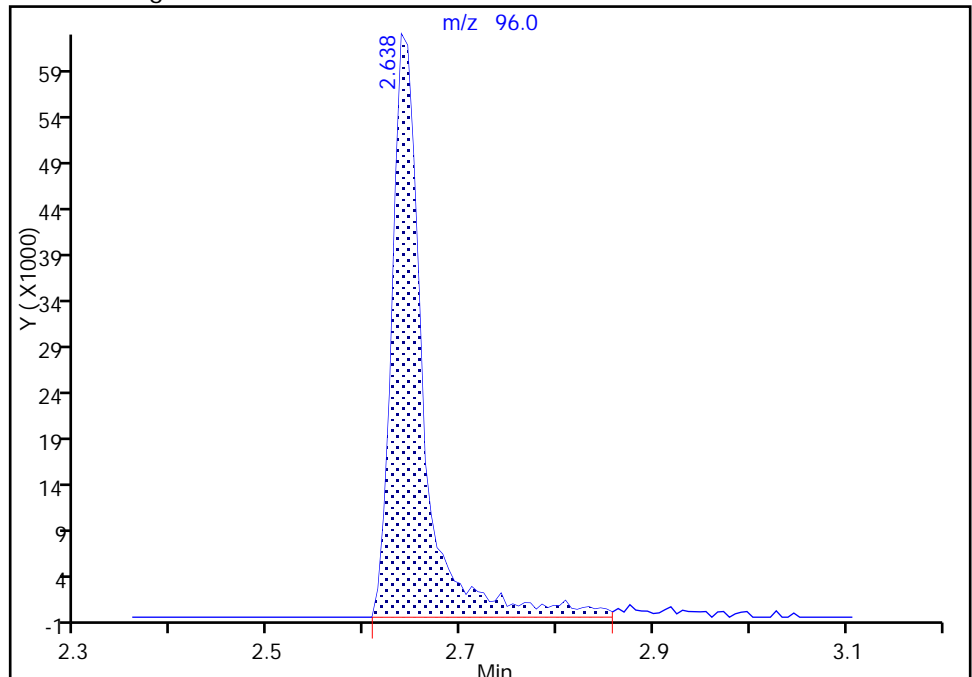
RT: 2.64
Area: 134186
Amount: 23.574361
Amount Units: ug/L

Processing Integration Results



RT: 2.64
Area: 141001
Amount: 24.771649
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 10:19:00
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

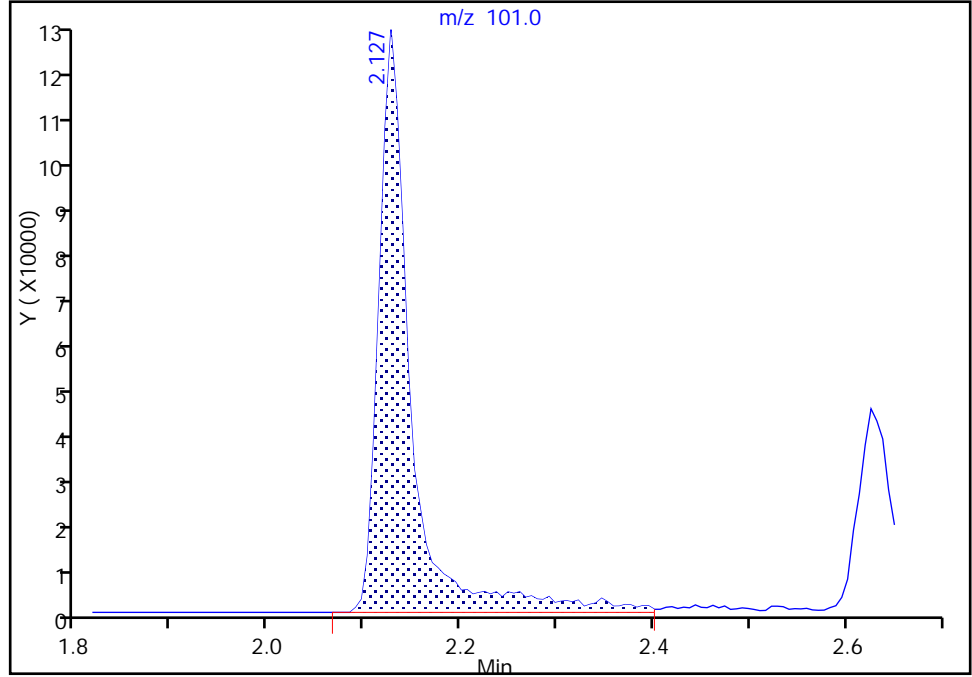
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180225-69476.b\S7854.D
Injection Date: 25-Feb-2018 10:01:30 Instrument ID: HP5973S
Lims ID: LCS
Client ID:
Operator ID: AM ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

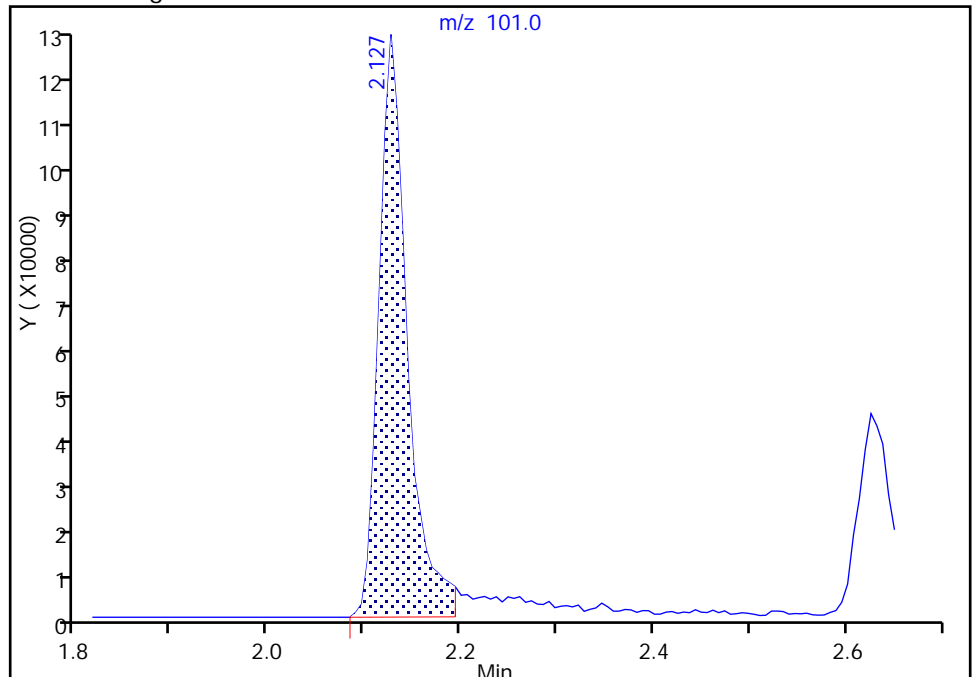
RT: 2.13
Area: 286477
Amount: 30.403399
Amount Units: ug/L

Processing Integration Results



RT: 2.13
Area: 252202
Amount: 26.765842
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 25-Feb-2018 10:18:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401359/5
 Matrix: Water Lab File ID: N7295.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.8		1.0	0.21
79-00-5	1,1,2-Trichloroethane	22.5		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.1		1.0	0.31
75-34-3	1,1-Dichloroethane	26.6		1.0	0.38
75-35-4	1,1-Dichloroethene	26.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	27.7		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	21.4		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.5		1.0	0.79
107-06-2	1,2-Dichloroethane	21.7		1.0	0.21
78-87-5	1,2-Dichloropropane	25.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.2		1.0	0.84
78-93-3	2-Butanone (MEK)	93.1		10	1.3
591-78-6	2-Hexanone	92.0		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	96.0		5.0	2.1
67-64-1	Acetone	103		10	3.0
71-43-2	Benzene	25.8		1.0	0.41
75-27-4	Bromodichloromethane	25.8		1.0	0.39
75-25-2	Bromoform	22.2		1.0	0.26
74-83-9	Bromomethane	20.7		1.0	0.69
75-15-0	Carbon disulfide	26.4		1.0	0.19
56-23-5	Carbon tetrachloride	27.6		1.0	0.27
108-90-7	Chlorobenzene	25.3		1.0	0.75
124-48-1	Dibromochloromethane	23.7		1.0	0.32
75-00-3	Chloroethane	22.7		1.0	0.32
67-66-3	Chloroform	25.0		1.0	0.34
74-87-3	Chloromethane	24.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.3		1.0	0.36
110-82-7	Cyclohexane	30.0		1.0	0.18
75-71-8	Dichlorodifluoromethane	27.0		1.0	0.68
100-41-4	Ethylbenzene	25.0		1.0	0.74
106-93-4	1,2-Dibromoethane	21.9		1.0	0.73
98-82-8	Isopropylbenzene	25.3		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401359/5
 Matrix: Water Lab File ID: N7295.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 10:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	35.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.2		1.0	0.16
108-87-2	Methylcyclohexane	29.7		1.0	0.16
75-09-2	Methylene Chloride	24.4		1.0	0.44
100-42-5	Styrene	25.0		1.0	0.73
127-18-4	Tetrachloroethene	26.1		1.0	0.36
108-88-3	Toluene	24.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.0		1.0	0.37
79-01-6	Trichloroethene	25.4		1.0	0.46
75-69-4	Trichlorofluoromethane	25.8		1.0	0.88
75-01-4	Vinyl chloride	24.2		1.0	0.90
1330-20-7	Xylenes, Total	51.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7295.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 25-Feb-2018 10:19:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0069477-005
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 25-Feb-2018 12:00:02 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: moffata

Date: 25-Feb-2018 12:00:02

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	206547	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	774145	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	95	412147	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	52	237125	25.0	25.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.120	-0.006	0	288268	25.0	22.6	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	923958	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.646	9.640	0.000	92	294575	25.0	24.4	
11 Dichlorodifluoromethane	85	1.324	1.318	0.006	98	290268	25.0	27.0	
13 Chloromethane	50	1.488	1.482	0.006	100	632519	25.0	24.2	
14 Vinyl chloride	62	1.580	1.574	0.006	98	441630	25.0	24.2	
144 Butadiene	54	1.610	1.604	0.006	95	539875	25.0	26.8	
15 Bromomethane	94	1.872	1.859	0.013	92	182715	25.0	20.7	
16 Chloroethane	64	1.969	1.951	0.018	95	221819	25.0	22.7	
17 Dichlorofluoromethane	67	2.182	2.164	0.018	96	466990	25.0	22.5	
18 Trichlorofluoromethane	101	2.170	2.170	0.000	98	408489	25.0	25.8	
19 Ethyl ether	59	2.474	2.480	-0.006	95	353391	25.0	23.1	
20 Acrolein	56	2.626	2.632	-0.006	99	336525	125.0	91.0	
22 1,1-Dichloroethene	96	2.675	2.669	0.006	93	244857	25.0	26.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.687	2.675	0.012	91	251310	25.0	30.1	
23 Acetone	43	2.784	2.790	-0.006	98	724189	125.0	102.9	
24 Iodomethane	142	2.821	2.821	0.000	100	439856	25.0	26.3	
25 Carbon disulfide	76	2.863	2.863	0.000	98	773409	25.0	26.4	
27 3-Chloro-1-propene	41	3.034	3.034	0.000	88	805727	25.0	25.4	
28 Methyl acetate	43	3.082	3.088	-0.006	99	691625	50.0	35.9	
30 Methylene Chloride	84	3.167	3.167	0.000	89	280733	25.0	24.4	
31 2-Methyl-2-propanol	59	3.338	3.362	-0.024	97	418591	250.0	204.0	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	95	820244	25.0	23.2	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	83	281612	25.0	26.2	
34 Acrylonitrile	53	3.429	3.435	-0.006	99	1670573	250.0	184.7	
35 Hexane	57	3.618	3.618	0.000	95	692753	25.0	29.8	
36 1,1-Dichloroethane	63	3.806	3.806	0.000	97	631554	25.0	26.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.861	3.867	-0.006	96	2008125	50.0	42.5	
42 2,2-Dichloropropane	77	4.329	4.329	0.000	84	388240	25.0	28.5	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	326079	25.0	26.6	
44 2-Butanone (MEK)	43	4.384	4.390	-0.006	96	1097725	125.0	93.1	
47 Chlorobromomethane	128	4.579	4.585	-0.006	85	149968	25.0	24.4	
49 Tetrahydrofuran	42	4.621	4.621	0.000	93	291050	50.0	34.2	
50 Chloroform	83	4.658	4.664	-0.006	95	487053	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	420905	25.0	26.8	
52 Cyclohexane	56	4.816	4.810	0.006	90	827609	25.0	30.0	
53 Carbon tetrachloride	117	4.938	4.932	0.006	96	364103	25.0	27.6	
54 1,1-Dichloropropene	75	4.944	4.944	0.000	83	375360	25.0	25.5	
55 Benzene	78	5.139	5.138	0.001	94	1133094	25.0	25.8	
56 Isobutyl alcohol	43	5.132	5.145	-0.013	94	557493	625.0	471.3	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	94	458382	25.0	21.7	
59 n-Heptane	43	5.345	5.345	0.000	95	801680	25.0	30.7	
60 Trichloroethene	95	5.747	5.747	0.000	94	293895	25.0	25.4	
62 Methylcyclohexane	83	5.887	5.887	0.000	93	524859	25.0	29.7	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	89	348113	25.0	25.6	
64 Dibromomethane	93	6.106	6.106	0.000	94	155637	25.0	22.3	
66 1,4-Dioxane	88	6.118	6.118	0.000	87	52270	500.0	404.0	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	367938	25.0	25.8	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	87	213811	25.0	21.2	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	85	420177	25.0	25.3	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.819	0.000	98	798808	125.0	96.0	
73 Toluene	92	6.982	6.977	0.000	97	713390	25.0	24.6	
75 trans-1,3-Dichloropropene	75	7.237	7.238	-0.006	91	371246	25.0	24.0	
77 Ethyl methacrylate	69	7.304	7.299	0.000	88	317718	25.0	20.3	
78 1,1,2-Trichloroethane	83	7.426	7.427	-0.006	94	188104	25.0	22.5	
79 Tetrachloroethene	166	7.523	7.512	0.006	96	322183	25.0	26.1	
80 1,3-Dichloropropane	76	7.590	7.585	0.000	90	388103	25.0	22.7	
82 2-Hexanone	43	7.657	7.658	-0.006	99	1661360	125.0	92.0	
83 Chlorodibromomethane	129	7.827	7.822	0.000	90	260357	25.0	23.7	
84 Ethylene Dibromide	107	7.931	7.925	0.000	98	232340	25.0	21.9	
85 Chlorobenzene	112	8.424	8.418	0.000	96	810158	25.0	25.3	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.509	0.000	93	284640	25.0	27.0	
88 Ethylbenzene	91	8.521	8.515	0.000	97	1292922	25.0	25.0	
90 m-Xylene & p-Xylene	106	8.643	8.636	0.000	0	539948	25.0	25.8	
91 o-Xylene	106	9.069	9.062	0.001	97	523983	25.0	25.9	
92 Styrene	104	9.093	9.086	0.000	92	859880	25.0	25.0	
93 Bromoform	173	9.324	9.317	0.000	96	156262	25.0	22.2	
95 Isopropylbenzene	105	9.458	9.453	0.000	96	1338767	25.0	25.3	
97 Bromobenzene	156	9.792	9.787	0.000	89	334421	25.0	24.4	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.830	-0.006	94	295219	25.0	20.8	
99 1,2,3-Trichloropropane	110	9.865	9.860	0.000	94	91333	25.0	19.9	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.878	-0.006	75	129595	25.0	17.5	
100 N-Propylbenzene	91	9.884	9.884	-0.006	98	1551687	25.0	25.7	
102 2-Chlorotoluene	126	9.981	9.982	-0.006	96	323975	25.0	24.9	
104 1,3,5-Trimethylbenzene	105	10.066	10.061	0.000	96	1109070	25.0	25.5	
105 4-Chlorotoluene	91	10.097	10.085	0.006	97	1034829	25.0	24.7	
106 tert-Butylbenzene	134	10.389	10.383	0.000	94	264615	25.0	26.8	
108 1,2,4-Trimethylbenzene	105	10.437	10.431	0.000	97	1146878	25.0	25.7	
109 sec-Butylbenzene	105	10.596	10.590	0.001	95	1430651	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.723	10.717	0.000	98	664743	25.0	25.3	
111 4-Isopropyltoluene	119	10.742	10.735	0.001	98	1347115	25.0	27.2	
113 1,4-Dichlorobenzene	146	10.808	10.802	0.000	94	673237	25.0	25.2	
115 n-Butylbenzene	91	11.125	11.119	0.000	98	1113529	25.0	27.1	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.000	98	633326	25.0	25.5	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.872	0.000	77	49314	25.0	21.4	
119 1,2,4-Trichlorobenzene	180	12.573	12.566	0.000	94	428669	25.0	27.7	
120 Hexachlorobutadiene	225	12.700	12.693	0.000	97	197907	25.0	26.5	
121 Naphthalene	128	12.786	12.778	0.000	97	929257	25.0	22.8	
122 1,2,3-Trichlorobenzene	180	12.986	12.979	0.000	95	358646	25.0	27.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00266	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7295.D

Injection Date: 25-Feb-2018 10:19:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

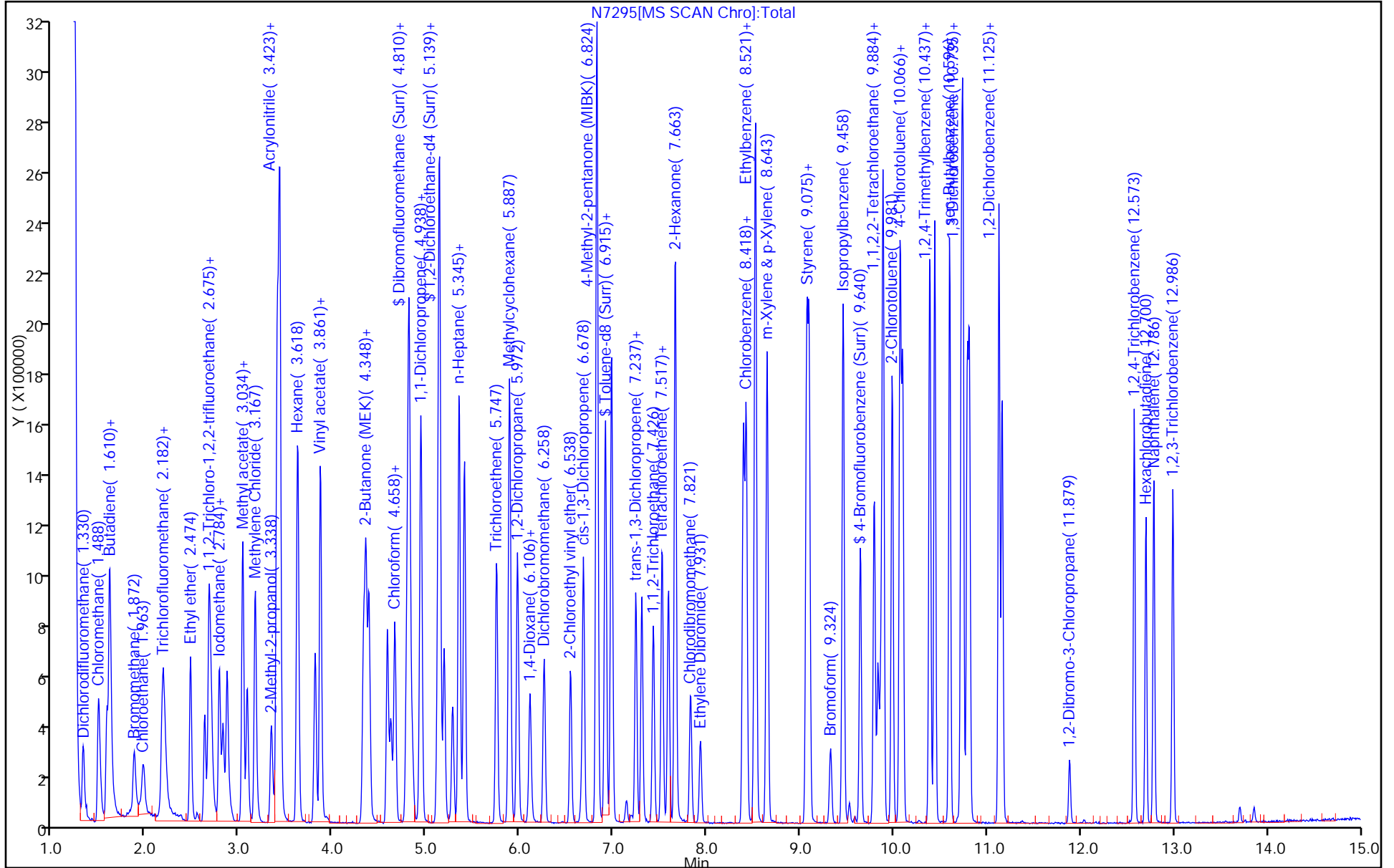
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401400/5
 Matrix: Water Lab File ID: N7311.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.1		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	22.0		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.3		1.0	0.31
75-34-3	1,1-Dichloroethane	26.4		1.0	0.38
75-35-4	1,1-Dichloroethene	26.8		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	27.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.3		1.0	0.79
107-06-2	1,2-Dichloroethane	21.0		1.0	0.21
78-87-5	1,2-Dichloropropane	26.5		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.6		1.0	0.84
78-93-3	2-Butanone (MEK)	79.9		10	1.3
591-78-6	2-Hexanone	85.1		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	90.7		5.0	2.1
67-64-1	Acetone	84.6		10	3.0
71-43-2	Benzene	25.7		1.0	0.41
75-27-4	Bromodichloromethane	25.3		1.0	0.39
75-25-2	Bromoform	22.1		1.0	0.26
74-83-9	Bromomethane	22.4		1.0	0.69
75-15-0	Carbon disulfide	27.5		1.0	0.19
56-23-5	Carbon tetrachloride	28.4		1.0	0.27
108-90-7	Chlorobenzene	26.0		1.0	0.75
124-48-1	Dibromochloromethane	24.3		1.0	0.32
75-00-3	Chloroethane	24.0		1.0	0.32
67-66-3	Chloroform	24.9		1.0	0.34
74-87-3	Chloromethane	23.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.5		1.0	0.36
110-82-7	Cyclohexane	30.8		1.0	0.18
75-71-8	Dichlorodifluoromethane	26.6		1.0	0.68
100-41-4	Ethylbenzene	25.9		1.0	0.74
106-93-4	1,2-Dibromoethane	21.4		1.0	0.73
98-82-8	Isopropylbenzene	26.6		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401400/5
 Matrix: Water Lab File ID: N7311.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/26/2018 10:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	32.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.4		1.0	0.16
108-87-2	Methylcyclohexane	30.8		1.0	0.16
75-09-2	Methylene Chloride	24.7		1.0	0.44
100-42-5	Styrene	25.9		1.0	0.73
127-18-4	Tetrachloroethene	26.2		1.0	0.36
108-88-3	Toluene	24.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.4		1.0	0.37
79-01-6	Trichloroethene	25.8		1.0	0.46
75-69-4	Trichlorofluoromethane	27.1		1.0	0.88
75-01-4	Vinyl chloride	24.0		1.0	0.90
1330-20-7	Xylenes, Total	52.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7311.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 26-Feb-2018 10:11:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0069487-005
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 12:00:07 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: moffata

Date: 26-Feb-2018 12:00:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.400	5.406	-0.006	98	211319	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.387	0.000	89	782137	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	94	410514	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	91	250969	25.0	26.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.114	5.114	0.000	0	298659	25.0	22.9	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	996671	25.0	26.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	-0.001	89	323353	25.0	26.5	
11 Dichlorodifluoromethane	85	1.324	1.324	0.000	98	292560	25.0	26.6	
13 Chloromethane	50	1.495	1.495	0.000	98	635761	25.0	23.8	
14 Vinyl chloride	62	1.580	1.580	0.000	97	449060	25.0	24.0	
144 Butadiene	54	1.610	1.616	-0.006	94	548314	25.0	26.6	
15 Bromomethane	94	1.890	1.872	0.018	91	202203	25.0	22.4	
16 Chloroethane	64	1.969	1.975	-0.006	95	240315	25.0	24.0	
18 Trichlorofluoromethane	101	2.176	2.176	0.000	97	438901	25.0	27.1	
17 Dichlorofluoromethane	67	2.188	2.188	0.000	96	482119	25.0	22.7	
19 Ethyl ether	59	2.468	2.474	-0.006	94	362764	25.0	23.2	
20 Acrolein	56	2.620	2.626	-0.006	98	311601	125.0	82.4	
22 1,1-Dichloroethene	96	2.675	2.675	0.000	90	256134	25.0	26.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.687	2.693	-0.006	92	258463	25.0	30.3	
23 Acetone	43	2.778	2.778	0.000	98	609066	125.0	84.6	
24 Iodomethane	142	2.821	2.827	-0.006	99	455563	25.0	26.7	
25 Carbon disulfide	76	2.863	2.870	-0.007	98	826957	25.0	27.5	
27 3-Chloro-1-propene	41	3.028	3.034	-0.006	88	863404	25.0	26.6	
28 Methyl acetate	43	3.076	3.076	0.000	99	646385	50.0	32.8	
30 Methylene Chloride	84	3.161	3.168	-0.007	89	290525	25.0	24.7	
31 2-Methyl-2-propanol	59	3.332	3.326	0.006	98	379720	250.0	180.8	
32 Methyl tert-butyl ether	73	3.399	3.399	0.000	93	812178	25.0	22.4	
33 trans-1,2-Dichloroethene	96	3.399	3.405	-0.006	91	291806	25.0	26.6	
34 Acrylonitrile	53	3.423	3.429	-0.006	98	1587943	250.0	171.6	
35 Hexane	57	3.618	3.618	0.000	97	710598	25.0	29.9	
36 1,1-Dichloroethane	63	3.806	3.806	0.000	96	641768	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.861	3.861	0.000	96	2042441	50.0	42.2	
42 2,2-Dichloropropane	77	4.323	4.330	-0.007	86	411303	25.0	29.5	
43 cis-1,2-Dichloroethene	96	4.348	4.354	-0.006	89	333672	25.0	26.6	
44 2-Butanone (MEK)	43	4.378	4.378	0.000	96	964402	125.0	79.9	
47 Chlorobromomethane	128	4.579	4.585	-0.006	84	146948	25.0	23.4	
49 Tetrahydrofuran	42	4.615	4.616	-0.001	92	273545	50.0	31.5	
50 Chloroform	83	4.658	4.664	-0.006	95	497923	25.0	24.9	
51 1,1,1-Trichloroethane	97	4.786	4.786	0.000	96	435009	25.0	27.1	
52 Cyclohexane	56	4.810	4.810	0.000	93	867554	25.0	30.8	
53 Carbon tetrachloride	117	4.932	4.932	0.000	96	382603	25.0	28.4	
54 1,1-Dichloropropene	75	4.938	4.944	-0.006	86	399600	25.0	26.5	
56 Isobutyl alcohol	43	5.133	5.127	0.005	99	540489	625.0	446.6	
55 Benzene	78	5.139	5.139	0.000	94	1153242	25.0	25.7	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	94	453241	25.0	21.0	
59 n-Heptane	43	5.345	5.346	-0.001	96	822615	25.0	30.8	
60 Trichloroethene	95	5.747	5.747	0.000	93	304917	25.0	25.8	
62 Methylcyclohexane	83	5.887	5.887	0.000	94	557385	25.0	30.8	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	91	368293	25.0	26.5	
64 Dibromomethane	93	6.100	6.106	-0.006	94	152427	25.0	21.3	
66 1,4-Dioxane	88	6.112	6.112	0.000	49	50586	500.0	387.0	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	369780	25.0	25.3	
69 2-Chloroethyl vinyl ether	63	6.538	6.538	0.000	85	205234	25.0	19.9	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	85	432286	25.0	25.5	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.824	0.000	98	762454	125.0	90.7	
73 Toluene	92	6.976	6.976	0.000	96	718531	25.0	24.6	
75 trans-1,3-Dichloropropene	75	7.237	7.237	-0.001	92	382608	25.0	24.4	
77 Ethyl methacrylate	69	7.304	7.304	0.000	90	316687	25.0	20.0	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	95	185584	25.0	22.0	
79 Tetrachloroethene	166	7.517	7.517	0.000	95	326625	25.0	26.2	
80 1,3-Dichloropropane	76	7.584	7.590	-0.006	90	386679	25.0	22.3	
82 2-Hexanone	43	7.657	7.657	0.000	98	1552492	125.0	85.1	
83 Chlorodibromomethane	129	7.821	7.821	-0.001	89	270100	25.0	24.3	
84 Ethylene Dibromide	107	7.931	7.931	0.000	99	228901	25.0	21.4	
85 Chlorobenzene	112	8.418	8.417	0.000	93	841091	25.0	26.0	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.515	0.000	92	292685	25.0	27.5	
88 Ethylbenzene	91	8.521	8.521	0.000	98	1349878	25.0	25.9	
90 m-Xylene & p-Xylene	106	8.643	8.643	0.000	0	555434	25.0	26.2	
91 o-Xylene	106	9.069	9.068	0.000	97	546046	25.0	26.7	
92 Styrene	104	9.093	9.093	0.000	93	898410	25.0	25.9	
93 Bromoform	173	9.318	9.324	-0.006	94	156827	25.0	22.1	
95 Isopropylbenzene	105	9.458	9.452	0.000	96	1403217	25.0	26.6	
97 Bromobenzene	156	9.793	9.787	0.000	89	338226	25.0	24.8	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.823	0.000	94	288162	25.0	20.4	
99 1,2,3-Trichloropropane	110	9.866	9.854	0.006	93	85023	25.0	18.6	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.872	0.000	70	137560	25.0	18.7	
100 N-Propylbenzene	91	9.884	9.878	0.000	99	1586508	25.0	26.4	
102 2-Chlorotoluene	126	9.981	9.975	0.000	96	331865	25.0	25.6	
104 1,3,5-Trimethylbenzene	105	10.066	10.060	0.000	96	1143672	25.0	26.4	
105 4-Chlorotoluene	91	10.097	10.085	0.006	98	1070604	25.0	25.6	
106 tert-Butylbenzene	134	10.383	10.377	0.000	94	273880	25.0	27.8	
108 1,2,4-Trimethylbenzene	105	10.437	10.431	0.000	97	1175195	25.0	26.4	
109 sec-Butylbenzene	105	10.596	10.589	0.000	95	1516743	25.0	27.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.723	10.717	0.000	98	684894	25.0	26.2	
111 4-Isopropyltoluene	119	10.735	10.735	-0.007	98	1383708	25.0	28.0	
113 1,4-Dichlorobenzene	146	10.808	10.802	-0.001	94	680881	25.0	25.6	
115 n-Butylbenzene	91	11.125	11.118	0.000	98	1133332	25.0	27.7	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.000	97	625398	25.0	25.3	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.872	0.000	82	42992	25.0	18.7	
119 1,2,4-Trichlorobenzene	180	12.573	12.565	0.000	94	424791	25.0	27.6	
120 Hexachlorobutadiene	225	12.694	12.693	-0.007	97	199687	25.0	26.9	
121 Naphthalene	128	12.780	12.772	0.000	97	862767	25.0	21.3	
122 1,2,3-Trichlorobenzene	180	12.986	12.979	0.000	96	350088	25.0	26.6	

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00266	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180226-69487.b\N7311.D

Injection Date: 26-Feb-2018 10:11:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

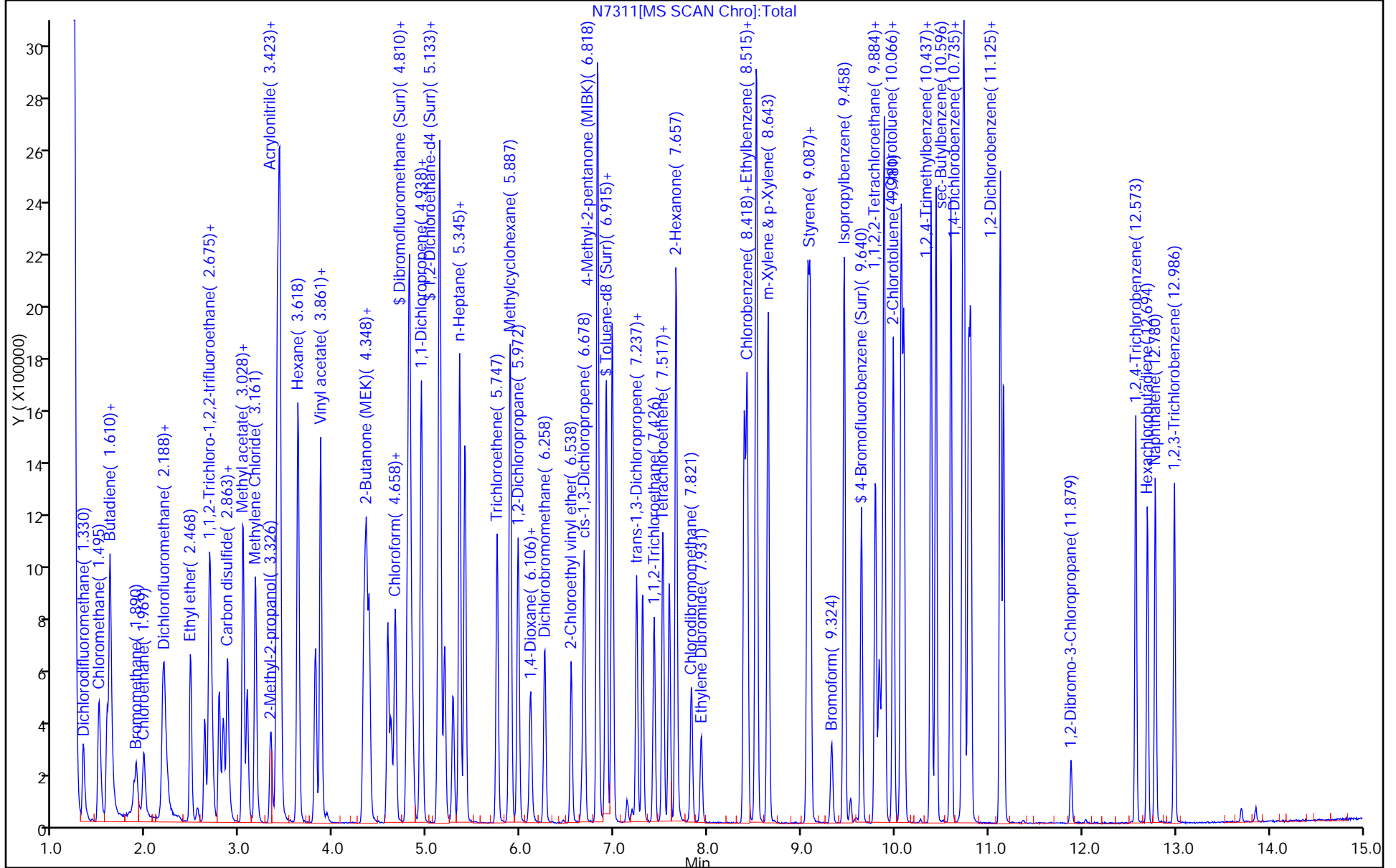
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401795/5
 Matrix: Water Lab File ID: N7370.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	22.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.0		1.0	0.31
75-34-3	1,1-Dichloroethane	23.0		1.0	0.38
75-35-4	1,1-Dichloroethene	19.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	27.4		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.5		1.0	0.79
107-06-2	1,2-Dichloroethane	22.3		1.0	0.21
78-87-5	1,2-Dichloropropane	23.9		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.1		1.0	0.84
78-93-3	2-Butanone (MEK)	115		10	1.3
591-78-6	2-Hexanone	124		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	123		5.0	2.1
67-64-1	Acetone	93.0		10	3.0
71-43-2	Benzene	22.6		1.0	0.41
75-27-4	Bromodichloromethane	23.0		1.0	0.39
75-25-2	Bromoform	24.9		1.0	0.26
74-83-9	Bromomethane	22.2		1.0	0.69
75-15-0	Carbon disulfide	23.8		1.0	0.19
56-23-5	Carbon tetrachloride	22.9		1.0	0.27
108-90-7	Chlorobenzene	22.9		1.0	0.75
124-48-1	Dibromochloromethane	23.1		1.0	0.32
75-00-3	Chloroethane	22.5		1.0	0.32
67-66-3	Chloroform	22.3		1.0	0.34
74-87-3	Chloromethane	23.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.9		1.0	0.36
110-82-7	Cyclohexane	24.0		1.0	0.18
75-71-8	Dichlorodifluoromethane	25.7		1.0	0.68
100-41-4	Ethylbenzene	22.6		1.0	0.74
106-93-4	1,2-Dibromoethane	23.5		1.0	0.73
98-82-8	Isopropylbenzene	23.1		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401795/5
 Matrix: Water Lab File ID: N7370.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 10:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	43.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.1		1.0	0.16
108-87-2	Methylcyclohexane	25.5		1.0	0.16
75-09-2	Methylene Chloride	22.3		1.0	0.44
100-42-5	Styrene	23.6		1.0	0.73
127-18-4	Tetrachloroethene	22.8		1.0	0.36
108-88-3	Toluene	21.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.1		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.2		1.0	0.37
79-01-6	Trichloroethene	22.9		1.0	0.46
75-69-4	Trichlorofluoromethane	23.6		1.0	0.88
75-01-4	Vinyl chloride	22.6		1.0	0.90
1330-20-7	Xylenes, Total	46.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7370.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Feb-2018 10:01:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0069548-005
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Feb-2018 10:21:43 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK012

First Level Reviewer: farrellr

Date: 28-Feb-2018 10:21:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	184269	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	716659	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	370613	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	79	203523	25.0	24.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	279990	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	846985	25.0	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.633	0.000	90	284481	25.0	25.5	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	246190	25.0	25.7	
13 Chloromethane	50	1.494	1.507	-0.013	99	548381	25.0	23.6	
14 Vinyl chloride	62	1.586	1.586	0.000	98	368353	25.0	22.6	
144 Butadiene	54	1.610	1.616	-0.006	92	367337	25.0	20.4	
15 Bromomethane	94	1.890	1.896	-0.006	92	174605	25.0	22.2	
16 Chloroethane	64	1.993	1.987	0.006	97	196282	25.0	22.5	
17 Dichlorofluoromethane	67	2.188	2.188	0.000	93	411271	25.0	22.2	
18 Trichlorofluoromethane	101	2.194	2.200	-0.006	84	332914	25.0	23.6	
19 Ethyl ether	59	2.486	2.486	0.000	94	305777	25.0	22.5	
20 Acrolein	56	2.632	2.638	-0.006	98	300325	125.0	91.1	
22 1,1-Dichloroethene	96	2.693	2.687	0.006	90	158797	25.0	19.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.687	2.699	-0.012	49	185932	25.0	25.0	
23 Acetone	43	2.790	2.790	0.000	98	583683	125.0	93.0	
24 Iodomethane	142	2.833	2.839	-0.006	99	331759	25.0	22.3	
25 Carbon disulfide	76	2.881	2.888	-0.007	98	623173	25.0	23.8	
27 3-Chloro-1-propene	41	3.046	3.046	0.000	87	648707	25.0	22.9	
28 Methyl acetate	43	3.088	3.088	0.000	99	739966	50.0	43.1	
30 Methylene Chloride	84	3.180	3.180	0.000	89	229238	25.0	22.3	
31 2-Methyl-2-propanol	59	3.338	3.344	-0.006	96	347142	250.0	189.6	
32 Methyl tert-butyl ether	73	3.405	3.411	-0.006	93	697706	25.0	22.1	
33 trans-1,2-Dichloroethene	96	3.411	3.417	-0.006	90	221152	25.0	23.1	
34 Acrylonitrile	53	3.435	3.435	0.000	99	1880592	250.0	233.0	
35 Hexane	57	3.630	3.630	0.000	97	541449	25.0	26.1	
36 1,1-Dichloroethane	63	3.818	3.818	0.000	96	487462	25.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.873	3.873	0.000	96	2074521	50.0	49.2	
42 2,2-Dichloropropane	77	4.335	4.335	0.000	83	253029	25.0	20.8	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	86	253955	25.0	23.2	
44 2-Butanone (MEK)	43	4.384	4.390	-0.006	96	1214103	125.0	115.4	
47 Chlorobromomethane	128	4.585	4.591	-0.006	86	122378	25.0	22.3	
49 Tetrahydrofuran	42	4.621	4.621	0.000	92	349160	50.0	46.0	
50 Chloroform	83	4.664	4.664	0.000	95	387877	25.0	22.3	
51 1,1,1-Trichloroethane	97	4.792	4.798	-0.006	96	308115	25.0	22.0	
52 Cyclohexane	56	4.816	4.822	-0.006	93	590637	25.0	24.0	
53 Carbon tetrachloride	117	4.938	4.944	-0.006	97	269196	25.0	22.9	
54 1,1-Dichloropropene	75	4.944	4.950	-0.006	83	290117	25.0	22.1	
56 Isobutyl alcohol	43	5.132	5.132	0.000	95	658737	625.0	624.2	
55 Benzene	78	5.145	5.145	0.000	95	887707	25.0	22.6	
57 1,2-Dichloroethane	62	5.187	5.193	-0.006	95	419707	25.0	22.3	
59 n-Heptane	43	5.351	5.351	0.000	95	650493	25.0	27.9	
60 Trichloroethene	95	5.753	5.753	0.000	94	235846	25.0	22.9	
62 Methylcyclohexane	83	5.893	5.893	0.000	94	401454	25.0	25.5	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	90	290037	25.0	23.9	
64 Dibromomethane	93	6.106	6.106	0.000	93	140867	25.0	22.6	
66 1,4-Dioxane	88	6.118	6.118	0.000	43	61376	500.0	512.5	M
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	292686	25.0	23.0	
69 2-Chloroethyl vinyl ether	63	6.544	6.544	0.000	85	225434	25.0	25.0	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	89	354091	25.0	23.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.819	0.000	98	944120	125.0	122.5	
73 Toluene	92	6.982	6.977	0.000	97	575026	25.0	21.5	
75 trans-1,3-Dichloropropene	75	7.243	7.238	0.000	90	333288	25.0	23.2	
77 Ethyl methacrylate	69	7.304	7.299	0.000	88	334820	25.0	23.1	
78 1,1,2-Trichloroethane	83	7.426	7.420	0.000	94	175524	25.0	22.7	
79 Tetrachloroethene	166	7.523	7.518	0.000	96	260648	25.0	22.8	
80 1,3-Dichloropropane	76	7.590	7.585	0.000	89	362326	25.0	22.9	
82 2-Hexanone	43	7.663	7.658	0.000	98	2076229	125.0	124.1	
83 Chlorodibromomethane	129	7.827	7.822	0.000	89	235104	25.0	23.1	
84 Ethylene Dibromide	107	7.931	7.925	0.000	97	230792	25.0	23.5	
85 Chlorobenzene	112	8.424	8.411	0.006	93	678468	25.0	22.9	
89 1,1,1,2-Tetrachloroethane	131	8.515	8.509	0.000	91	236411	25.0	24.3	
88 Ethylbenzene	91	8.521	8.515	0.000	98	1080829	25.0	22.6	
90 m-Xylene & p-Xylene	106	8.643	8.642	-0.006	0	445912	25.0	23.0	
91 o-Xylene	106	9.068	9.062	0.000	97	445465	25.0	23.8	
92 Styrene	104	9.093	9.086	0.000	94	749954	25.0	23.6	
93 Bromoform	173	9.330	9.317	0.006	96	161933	25.0	24.9	
95 Isopropylbenzene	105	9.458	9.463	0.000	96	1097167	25.0	23.1	
97 Bromobenzene	156	9.792	9.798	0.000	89	287388	25.0	23.3	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.834	0.000	95	328418	25.0	25.7	
99 1,2,3-Trichloropropane	110	9.865	9.865	0.006	93	102439	25.0	24.8	
100 N-Propylbenzene	91	9.890	9.889	0.006	98	1288386	25.0	23.7	
101 trans-1,4-Dichloro-2-buten	53	9.878	9.889	-0.006	83	150226	25.0	22.6	
102 2-Chlorotoluene	126	9.981	9.987	0.000	96	276213	25.0	23.6	
104 1,3,5-Trimethylbenzene	105	10.066	10.072	0.000	96	910261	25.0	23.3	
105 4-Chlorotoluene	91	10.097	10.102	0.000	97	886269	25.0	23.5	
106 tert-Butylbenzene	134	10.382	10.394	-0.007	94	214272	25.0	24.1	
108 1,2,4-Trimethylbenzene	105	10.437	10.443	0.000	97	963129	25.0	24.0	
109 sec-Butylbenzene	105	10.602	10.601	0.007	95	1176757	25.0	23.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.723	10.729	0.000	98	553109	25.0	23.4	
111 4-Isopropyltoluene	119	10.741	10.747	0.000	98	1088733	25.0	24.4	
113 1,4-Dichlorobenzene	146	10.808	10.814	0.000	93	555327	25.0	23.1	
115 n-Butylbenzene	91	11.125	11.131	0.000	98	892157	25.0	24.1	
116 1,2-Dichlorobenzene	146	11.161	11.167	0.000	96	523262	25.0	23.5	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.886	0.000	80	56662	25.0	27.4	
119 1,2,4-Trichlorobenzene	180	12.573	12.580	0.000	95	319270	25.0	22.9	
120 Hexachlorobutadiene	225	12.700	12.707	0.000	96	153650	25.0	22.9	
121 Naphthalene	128	12.786	12.793	0.000	97	931128	25.0	25.4	
122 1,2,3-Trichlorobenzene	180	12.986	12.994	0.000	96	292203	25.0	24.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00267	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7370.D

Injection Date: 28-Feb-2018 10:01:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

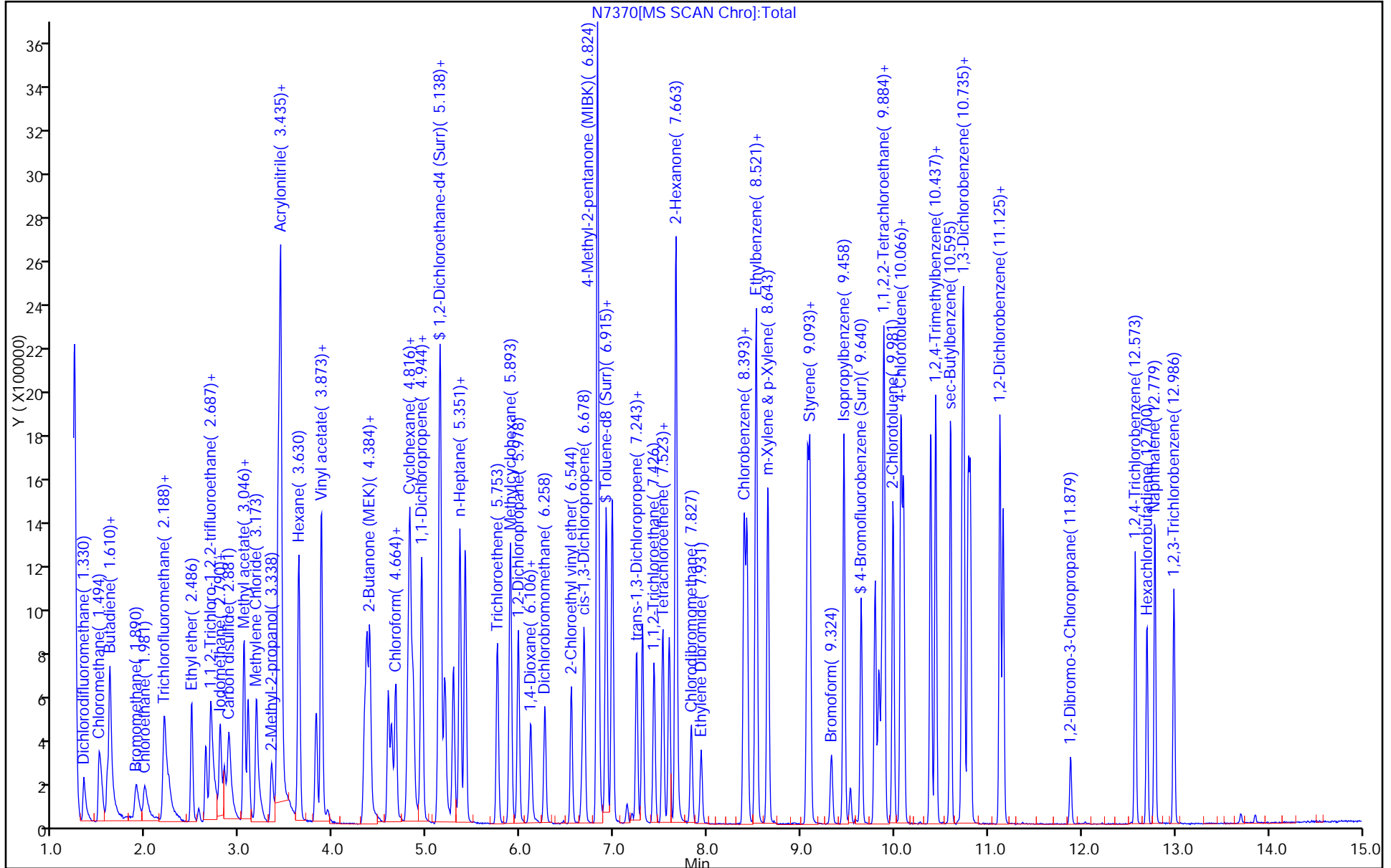
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MS Lab Sample ID: 480-131737-6 MS
 Matrix: Water Lab File ID: N7391.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 19:45
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	133		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	139		5.0	1.1
79-00-5	1,1,2-Trichloroethane	132		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	149		5.0	1.6
75-34-3	1,1-Dichloroethane	141		5.0	1.9
75-35-4	1,1-Dichloroethene	132		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	133		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	163		5.0	2.0
95-50-1	1,2-Dichlorobenzene	132		5.0	4.0
107-06-2	1,2-Dichloroethane	120		5.0	1.1
78-87-5	1,2-Dichloropropane	138		5.0	3.6
541-73-1	1,3-Dichlorobenzene	131		5.0	3.9
106-46-7	1,4-Dichlorobenzene	129		5.0	4.2
78-93-3	2-Butanone (MEK)	755		50	6.6
591-78-6	2-Hexanone	689		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	688		25	11
67-64-1	Acetone	568		50	15
71-43-2	Benzene	140		5.0	2.1
75-27-4	Bromodichloromethane	131		5.0	2.0
75-25-2	Bromoform	132		5.0	1.3
74-83-9	Bromomethane	118		5.0	3.5
75-15-0	Carbon disulfide	133		5.0	0.95
56-23-5	Carbon tetrachloride	138		5.0	1.4
108-90-7	Chlorobenzene	128		5.0	3.8
124-48-1	Dibromochloromethane	132		5.0	1.6
75-00-3	Chloroethane	238		5.0	1.6
67-66-3	Chloroform	127		5.0	1.7
74-87-3	Chloromethane	130		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	143		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	127		5.0	1.8
110-82-7	Cyclohexane	149		5.0	0.90
75-71-8	Dichlorodifluoromethane	141		5.0	3.4
100-41-4	Ethylbenzene	131		5.0	3.7
106-93-4	1,2-Dibromoethane	136		5.0	3.7
98-82-8	Isopropylbenzene	139		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MS Lab Sample ID: 480-131737-6 MS
 Matrix: Water Lab File ID: N7391.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 19:45
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	252		13	6.5
1634-04-4	Methyl tert-butyl ether	129		5.0	0.80
108-87-2	Methylcyclohexane	158		5.0	0.80
75-09-2	Methylene Chloride	132		5.0	2.2
100-42-5	Styrene	130		5.0	3.7
127-18-4	Tetrachloroethene	131		5.0	1.8
108-88-3	Toluene	129		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	135		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	122		5.0	1.9
79-01-6	Trichloroethene	130		5.0	2.3
75-69-4	Trichlorofluoromethane	135		5.0	4.4
75-01-4	Vinyl chloride	138		5.0	4.5
1330-20-7	Xylenes, Total	274		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7391.D
 Lims ID: 480-131737-C-6 MS
 Client ID: LBA-SBW-15
 Sample Type: MS
 Inject. Date: 28-Feb-2018 19:45:30 ALS Bottle#: 26 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-131737-C-6 MS
 Misc. Info.: 480-0069548-010
 Operator ID: RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2018 09:52:18 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: farrellr

Date: 01-Mar-2018 09:52:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	174611	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	90	688765	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.784	0.000	95	354854	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	56	199794	25.0	25.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	261164	25.0	24.2	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	830180	25.0	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.647	9.640	0.007	91	269197	25.0	25.1	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	256898	25.0	28.3	
13 Chloromethane	50	1.501	1.507	-0.006	99	572681	25.0	26.0	
14 Vinyl chloride	62	1.592	1.586	0.006	98	425544	25.0	27.6	
15 Bromomethane	94	1.890	1.896	-0.006	91	175532	25.0	23.6	
16 Chloroethane	64	1.987	1.987	0.000	95	393281	25.0	47.6	
18 Trichlorofluoromethane	101	2.206	2.200	0.006	81	360641	25.0	27.0	
22 1,1-Dichloroethene	96	2.693	2.693	0.006	91	208537	25.0	26.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.699	-0.006	47	209696	25.0	29.7	
23 Acetone	43	2.790	2.790	0.000	98	675629	125.0	113.6	
25 Carbon disulfide	76	2.888	2.875	0.000	98	661373	25.0	26.7	
28 Methyl acetate	43	3.088	3.088	0.000	99	820464	50.0	50.4	
30 Methylene Chloride	84	3.180	3.180	0.000	88	255817	25.0	26.3	
32 Methyl tert-butyl ether	73	3.411	3.399	0.000	94	773110	25.0	25.9	
33 trans-1,2-Dichloroethene	96	3.417	3.417	0.000	91	245672	25.0	27.1	
36 1,1-Dichloroethane	63	3.819	3.818	0.000	96	567578	25.0	28.3	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	88	297796	25.0	28.7	
44 2-Butanone (MEK)	43	4.390	4.390	0.000	96	1506605	125.0	151.1	
50 Chloroform	83	4.670	4.664	0.006	94	419612	25.0	25.4	
51 1,1,1-Trichloroethane	97	4.798	4.798	0.000	95	353119	25.0	26.6	
52 Cyclohexane	56	4.822	4.822	0.000	93	693178	25.0	29.8	
53 Carbon tetrachloride	117	4.944	4.944	0.000	75	306639	25.0	27.5	
55 Benzene	78	5.145	5.145	0.000	94	1037750	25.0	27.9	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	94	426950	25.0	23.9	
60 Trichloroethene	95	5.753	5.753	0.000	92	254150	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.893	5.893	0.000	93	473032	25.0	31.7	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	90	316780	25.0	27.6	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	316375	25.0	26.2	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	84	355147	25.0	25.3	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.830	0.000	98	1018935	125.0	137.6	
73 Toluene	92	6.982	6.988	0.000	97	666566	25.0	25.9	
75 trans-1,3-Dichloropropene	75	7.244	7.244	0.001	91	337446	25.0	24.5	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	196642	25.0	26.4	
79 Tetrachloroethene	166	7.523	7.523	0.000	95	287499	25.0	26.2	
82 2-Hexanone	43	7.663	7.663	0.000	98	2214398	125.0	137.8	
83 Chlorodibromomethane	129	7.828	7.828	0.001	90	257442	25.0	26.3	
84 Ethylene Dibromide	107	7.931	7.931	0.000	97	256820	25.0	27.2	
85 Chlorobenzene	112	8.424	8.418	0.006	92	727923	25.0	25.5	
88 Ethylbenzene	91	8.521	8.527	0.000	98	1206790	25.0	26.3	
90 m-Xylene & p-Xylene	106	8.643	8.649	-0.006	0	517582		27.8	
91 o-Xylene	106	9.069	9.075	0.001	97	487386		27.1	
92 Styrene	104	9.093	9.093	0.000	94	796402	25.0	26.0	
93 Bromoform	173	9.324	9.324	0.000	96	165239	25.0	26.4	
95 Isopropylbenzene	105	9.458	9.463	0.000	96	1263824	25.0	27.8	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.835	0.000	95	339205	25.0	27.8	
110 1,3-Dichlorobenzene	146	10.723	10.729	0.000	98	595265	25.0	26.3	
113 1,4-Dichlorobenzene	146	10.809	10.815	0.001	93	592491	25.0	25.8	
116 1,2-Dichlorobenzene	146	11.161	11.168	0.000	97	562059	25.0	26.3	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.886	0.000	79	64759	25.0	32.7	
119 1,2,4-Trichlorobenzene	180	12.573	12.580	0.000	95	353190	25.0	26.5	
S 126 Xylenes, Total	1				0			54.8	

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00267	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7391.D

Injection Date: 28-Feb-2018 19:45:30

Instrument ID: HP5973N

Operator ID: RF

Lims ID: 480-131737-C-6 MS

Worklist Smp#: 10

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

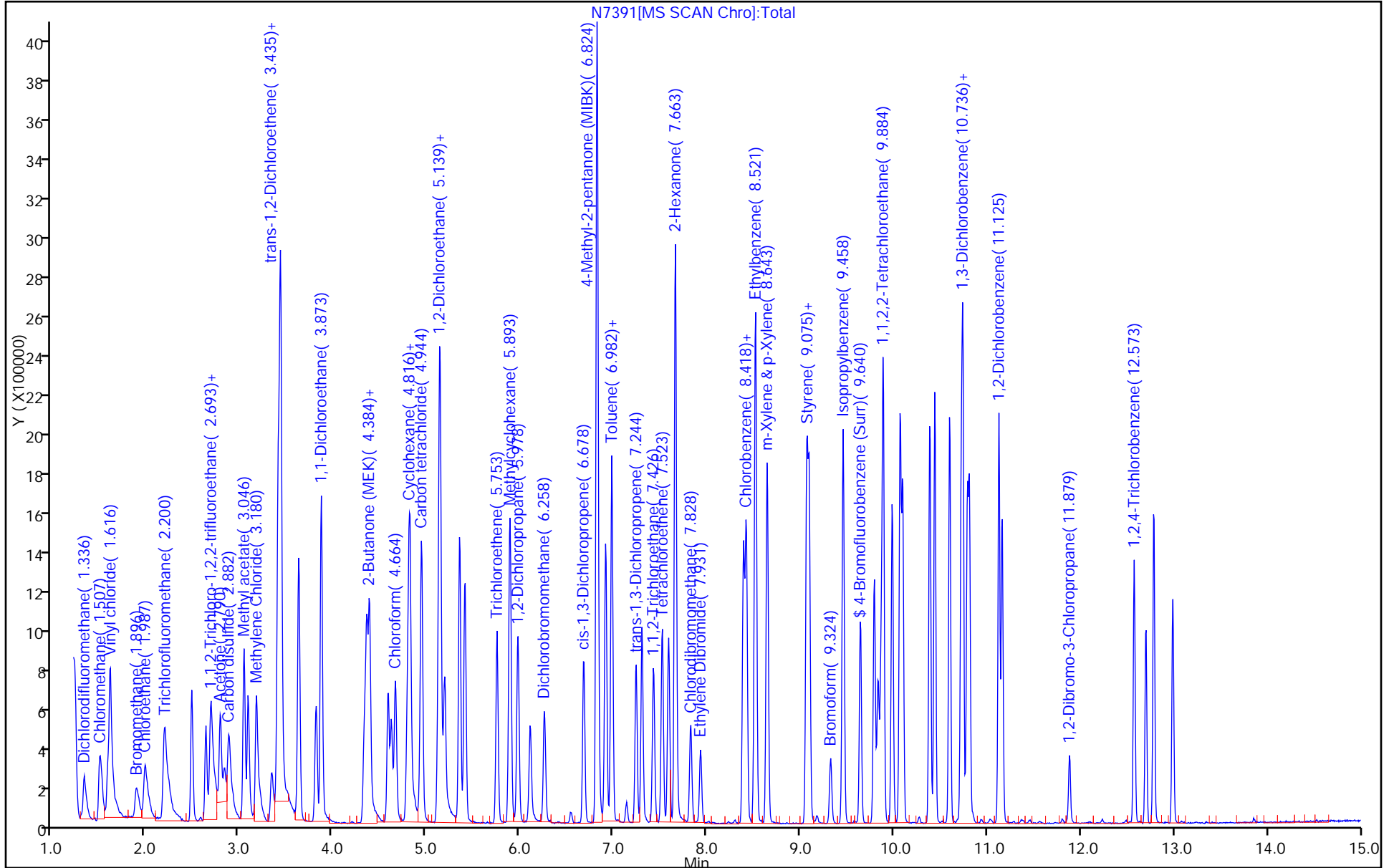
Dil. Factor: 5.0000

ALS Bottle#: 26

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 MS Lab Sample ID: 480-131737-8 MS
 Matrix: Water Lab File ID: N7305.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:14
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	286		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	212		10	2.1
79-00-5	1,1,2-Trichloroethane	222		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	303		10	3.1
75-34-3	1,1-Dichloroethane	290		10	3.8
75-35-4	1,1-Dichloroethene	275		10	2.9
120-82-1	1,2,4-Trichlorobenzene	285		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	210		10	3.9
95-50-1	1,2-Dichlorobenzene	264		10	7.9
107-06-2	1,2-Dichloroethane	216		10	2.1
78-87-5	1,2-Dichloropropane	257		10	7.2
541-73-1	1,3-Dichlorobenzene	269		10	7.8
106-46-7	1,4-Dichlorobenzene	261		10	8.4
78-93-3	2-Butanone (MEK)	835		100	13
591-78-6	2-Hexanone	857		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	936		50	21
67-64-1	Acetone	846		100	30
71-43-2	Benzene	278		10	4.1
75-27-4	Bromodichloromethane	248		10	3.9
75-25-2	Bromoform	216		10	2.6
74-83-9	Bromomethane	223		10	6.9
75-15-0	Carbon disulfide	271		10	1.9
56-23-5	Carbon tetrachloride	288		10	2.7
108-90-7	Chlorobenzene	257		10	7.5
124-48-1	Dibromochloromethane	232		10	3.2
75-00-3	Chloroethane	245		10	3.2
67-66-3	Chloroform	255		10	3.4
74-87-3	Chloromethane	248		10	3.5
156-59-2	cis-1,2-Dichloroethene	338		10	8.1
10061-01-5	cis-1,3-Dichloropropene	249		10	3.6
110-82-7	Cyclohexane	315		10	1.8
75-71-8	Dichlorodifluoromethane	285		10	6.8
100-41-4	Ethylbenzene	278		10	7.4
106-93-4	1,2-Dibromoethane	218		10	7.3
98-82-8	Isopropylbenzene	318		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 MS Lab Sample ID: 480-131737-8 MS
 Matrix: Water Lab File ID: N7305.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:14
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	329		25	13
1634-04-4	Methyl tert-butyl ether	267		10	1.6
108-87-2	Methylcyclohexane	306		10	1.6
75-09-2	Methylene Chloride	255		10	4.4
100-42-5	Styrene	259		10	7.3
127-18-4	Tetrachloroethene	261		10	3.6
108-88-3	Toluene	265		10	5.1
156-60-5	trans-1,2-Dichloroethene	273		10	9.0
10061-02-6	trans-1,3-Dichloropropene	234		10	3.7
79-01-6	Trichloroethene	261		10	4.6
75-69-4	Trichlorofluoromethane	275		10	8.8
75-01-4	Vinyl chloride	301		10	9.0
1330-20-7	Xylenes, Total	766		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7305.D
 Lims ID: 480-131737-F-8 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 25-Feb-2018 15:14:30 ALS Bottle#: 8 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-8 MS
 Misc. Info.: 480-0069477-016
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 09:54:14 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: moffata

Date: 26-Feb-2018 09:54:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	97	201965	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	89	748514	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	94	381302	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	93	230944	25.0	25.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	284458	25.0	22.8	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	927519	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.639	-0.006	89	295599	25.0	25.3	
11 Dichlorodifluoromethane	85	1.330	1.318	0.012	98	299843	25.0	28.5	
13 Chloromethane	50	1.489	1.482	0.006	99	631872	25.0	24.8	
14 Vinyl chloride	62	1.580	1.574	0.006	97	536840	25.0	30.1	
15 Bromomethane	94	1.872	1.859	0.013	91	192241	25.0	22.3	
16 Chloroethane	64	1.975	1.951	0.024	95	233957	25.0	24.5	
18 Trichlorofluoromethane	101	2.182	2.170	0.012	97	425453	25.0	27.5	
22 1,1-Dichloroethene	96	2.681	2.669	0.012	90	251781	25.0	27.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.675	0.018	91	247758	25.0	30.3	
23 Acetone	43	2.784	2.790	-0.006	99	582443	125.0	84.6	
25 Carbon disulfide	76	2.869	2.863	0.006	98	777988	25.0	27.1	
28 Methyl acetate	43	3.082	3.088	-0.006	99	619010	50.0	32.9	
30 Methylene Chloride	84	3.168	3.167	0.001	90	286198	25.0	25.5	
32 Methyl tert-butyl ether	73	3.405	3.405	0.000	94	924841	25.0	26.7	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	93	286044	25.0	27.3	
36 1,1-Dichloroethane	63	3.812	3.806	0.006	97	671766	25.0	29.0	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	405465	25.0	33.8	
44 2-Butanone (MEK)	43	4.384	4.390	-0.006	96	963372	125.0	83.5	
50 Chloroform	83	4.658	4.664	-0.006	96	487175	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	438182	25.0	28.6	
52 Cyclohexane	56	4.816	4.810	0.006	92	847911	25.0	31.5	
53 Carbon tetrachloride	117	4.938	4.932	0.006	96	371220	25.0	28.8	
55 Benzene	78	5.139	5.138	0.001	94	1195742	25.0	27.8	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	94	446563	25.0	21.6	
60 Trichloroethene	95	5.747	5.747	0.000	95	295082	25.0	26.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.887	5.887	0.000	94	528062	25.0	30.6	
63 1,2-Dichloropropane	63	5.972	5.972	0.000	88	341174	25.0	25.7	
67 Dichlorobromomethane	83	6.258	6.258	0.000	94	346808	25.0	24.8	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	85	404562	25.0	24.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.819	0.000	98	753495	125.0	93.6	
73 Toluene	92	6.982	6.977	0.000	97	740884	25.0	26.5	
75 trans-1,3-Dichloropropene	75	7.237	7.238	-0.006	92	351206	25.0	23.4	
78 1,1,2-Trichloroethane	83	7.426	7.427	-0.006	94	179393	25.0	22.2	
79 Tetrachloroethene	166	7.523	7.512	0.006	96	311343	25.0	26.1	
82 2-Hexanone	43	7.657	7.658	-0.006	98	1496923	125.0	85.7	
83 Chlorodibromomethane	129	7.828	7.822	0.001	90	246664	25.0	23.2	
84 Ethylene Dibromide	107	7.925	7.925	-0.006	97	223225	25.0	21.8	
85 Chlorobenzene	112	8.418	8.418	-0.006	92	795271	25.0	25.7	
88 Ethylbenzene	91	8.521	8.509	0.000	97	1388162	25.0	27.8	
90 m-Xylene & p-Xylene	106	8.643	8.636	0.000	0	994457		49.1	
91 o-Xylene	106	9.069	9.062	0.001	97	538210		27.5	
92 Styrene	104	9.093	9.086	0.000	94	859960	25.0	25.9	
93 Bromoform	173	9.324	9.317	0.000	97	146794	25.0	21.6	
95 Isopropylbenzene	105	9.458	9.453	0.000	97	1555919	25.0	31.8	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.829	-0.006	95	277935	25.0	21.2	
110 1,3-Dichlorobenzene	146	10.723	10.717	0.000	98	654022	25.0	26.9	
113 1,4-Dichlorobenzene	146	10.809	10.802	0.001	94	645451	25.0	26.1	
116 1,2-Dichlorobenzene	146	11.161	11.155	0.000	97	605513	25.0	26.4	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.872	0.000	78	44781	25.0	21.0	
119 1,2,4-Trichlorobenzene	180	12.573	12.566	0.000	95	407979	25.0	28.5	
S 126 Xylenes, Total	1				0			76.6	

Reagents:

8260 CORP mix_00121

Amount Added: 12.50

Units: uL

GAS CORP mix_00266

Amount Added: 12.50

Units: uL

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7305.D

Injection Date: 25-Feb-2018 15:14:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: 480-131737-F-8 MS

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

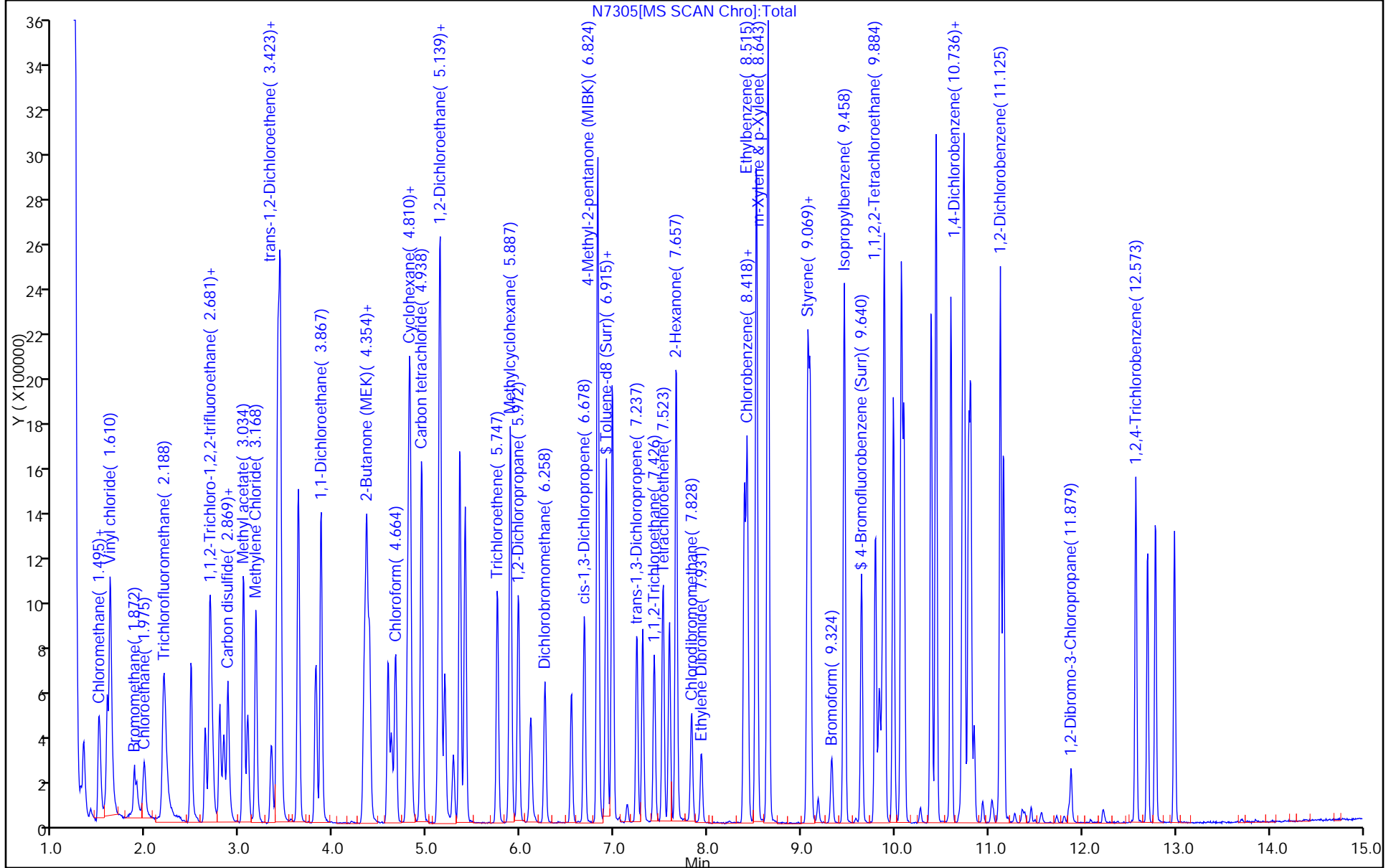
Dil. Factor: 10.0000

ALS Bottle#: 8

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MSD Lab Sample ID: 480-131737-6 MSD
 Matrix: Water Lab File ID: N7392.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 20:12
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	129		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	142		5.0	1.1
79-00-5	1,1,2-Trichloroethane	129		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	147		5.0	1.6
75-34-3	1,1-Dichloroethane	137		5.0	1.9
75-35-4	1,1-Dichloroethene	126		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	134		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	162		5.0	2.0
95-50-1	1,2-Dichlorobenzene	132		5.0	4.0
107-06-2	1,2-Dichloroethane	118		5.0	1.1
78-87-5	1,2-Dichloropropane	132		5.0	3.6
541-73-1	1,3-Dichlorobenzene	130		5.0	3.9
106-46-7	1,4-Dichlorobenzene	129		5.0	4.2
78-93-3	2-Butanone (MEK)	745		50	6.6
591-78-6	2-Hexanone	703		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	695		25	11
67-64-1	Acetone	634		50	15
71-43-2	Benzene	135		5.0	2.1
75-27-4	Bromodichloromethane	128		5.0	2.0
75-25-2	Bromoform	135		5.0	1.3
74-83-9	Bromomethane	116		5.0	3.5
75-15-0	Carbon disulfide	127		5.0	0.95
56-23-5	Carbon tetrachloride	130		5.0	1.4
108-90-7	Chlorobenzene	129		5.0	3.8
124-48-1	Dibromochloromethane	130		5.0	1.6
75-00-3	Chloroethane	230		5.0	1.6
67-66-3	Chloroform	123		5.0	1.7
74-87-3	Chloromethane	125		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	136		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	126		5.0	1.8
110-82-7	Cyclohexane	134		5.0	0.90
75-71-8	Dichlorodifluoromethane	132		5.0	3.4
100-41-4	Ethylbenzene	129		5.0	3.7
106-93-4	1,2-Dibromoethane	132		5.0	3.7
98-82-8	Isopropylbenzene	135		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 MSD Lab Sample ID: 480-131737-6 MSD
 Matrix: Water Lab File ID: N7392.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 20:12
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	258		13	6.5
1634-04-4	Methyl tert-butyl ether	127		5.0	0.80
108-87-2	Methylcyclohexane	147		5.0	0.80
75-09-2	Methylene Chloride	129		5.0	2.2
100-42-5	Styrene	128		5.0	3.7
127-18-4	Tetrachloroethene	129		5.0	1.8
108-88-3	Toluene	129		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	130		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	122		5.0	1.9
79-01-6	Trichloroethene	126		5.0	2.3
75-69-4	Trichlorofluoromethane	126		5.0	4.4
75-01-4	Vinyl chloride	134		5.0	4.5
1330-20-7	Xylenes, Total	275		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7392.D
 Lims ID: 480-131737-C-6 MSD
 Client ID: LBA-SBW-15
 Sample Type: MSD
 Inject. Date: 28-Feb-2018 20:12:30 ALS Bottle#: 27 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-131737-C-6 MSD
 Misc. Info.: 480-0069548-011
 Operator ID: RF Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-Mar-2018 09:52:18 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: farrellr

Date: 01-Mar-2018 09:53:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.412	5.406	0.006	98	177435	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.393	8.393	0.000	91	683237	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.790	10.784	0.006	95	354130	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.816	4.816	0.000	92	197059	25.0	24.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	269284	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.915	0.000	95	805140	25.0	24.0	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.640	0.000	90	274804	25.0	25.8	
11 Dichlorodifluoromethane	85	1.330	1.336	-0.006	98	243349	25.0	26.3	
13 Chloromethane	50	1.501	1.507	-0.006	100	558365	25.0	24.9	
14 Vinyl chloride	62	1.586	1.586	0.000	97	418888	25.0	26.7	
15 Bromomethane	94	1.890	1.896	-0.006	91	175130	25.0	23.2	
16 Chloroethane	64	1.981	1.987	-0.006	94	385432	25.0	45.9	
18 Trichlorofluoromethane	101	2.194	2.200	-0.006	97	343556	25.0	25.3	
22 1,1-Dichloroethene	96	2.687	2.693	0.000	92	202400	25.0	25.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.699	0.006	54	210933	25.0	29.4	
23 Acetone	43	2.790	2.790	0.000	97	766722	125.0	126.8	
25 Carbon disulfide	76	2.882	2.875	-0.006	98	640662	25.0	25.4	
28 Methyl acetate	43	3.088	3.088	0.000	99	852039	50.0	51.5	
30 Methylene Chloride	84	3.174	3.180	-0.006	89	254016	25.0	25.7	
32 Methyl tert-butyl ether	73	3.405	3.399	-0.006	94	773368	25.0	25.4	
33 trans-1,2-Dichloroethene	96	3.411	3.417	-0.006	92	239197	25.0	25.9	
36 1,1-Dichloroethane	63	3.812	3.818	-0.006	97	556725	25.0	27.3	
43 cis-1,2-Dichloroethene	96	4.360	4.360	0.000	88	287737	25.0	27.3	
44 2-Butanone (MEK)	43	4.384	4.390	-0.006	96	1509192	125.0	148.9	
50 Chloroform	83	4.664	4.664	0.000	95	411650	25.0	24.6	
51 1,1,1-Trichloroethane	97	4.792	4.798	-0.006	96	346795	25.0	25.7	
52 Cyclohexane	56	4.816	4.822	-0.006	95	633161	25.0	26.8	
53 Carbon tetrachloride	117	4.938	4.944	-0.006	96	294506	25.0	26.0	
55 Benzene	78	5.145	5.145	0.000	94	1015569	25.0	26.9	
57 1,2-Dichloroethane	62	5.193	5.193	0.000	94	429464	25.0	23.7	
60 Trichloroethene	95	5.753	5.753	0.000	93	250218	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.893	5.893	0.000	94	445031	25.0	29.3	
63 1,2-Dichloropropane	63	5.978	5.978	0.000	88	308484	25.0	26.4	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	315284	25.0	25.7	
71 cis-1,3-Dichloropropene	75	6.684	6.684	0.000	84	358563	25.0	25.1	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.830	0.000	98	1020639	125.0	138.9	
73 Toluene	92	6.982	6.988	0.000	97	658203	25.0	25.8	
75 trans-1,3-Dichloropropene	75	7.244	7.244	0.001	90	332789	25.0	24.3	
78 1,1,2-Trichloroethane	83	7.426	7.426	0.000	94	190925	25.0	25.9	
79 Tetrachloroethene	166	7.523	7.523	0.000	95	279905	25.0	25.7	
82 2-Hexanone	43	7.663	7.663	0.000	99	2242318	125.0	140.6	
83 Chlorodibromomethane	129	7.828	7.828	0.001	89	251707	25.0	26.0	
84 Ethylene Dibromide	107	7.931	7.931	0.000	96	247837	25.0	26.5	
85 Chlorobenzene	112	8.418	8.418	0.000	93	728592	25.0	25.8	
88 Ethylbenzene	91	8.521	8.527	0.000	98	1176169	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.643	8.649	-0.006	0	513490		27.8	
91 o-Xylene	106	9.069	9.075	0.001	97	485603		27.2	
92 Styrene	104	9.093	9.093	0.000	93	775604	25.0	25.6	
93 Bromoform	173	9.324	9.324	0.000	96	167031	25.0	26.9	
95 Isopropylbenzene	105	9.458	9.463	0.000	96	1223761	25.0	26.9	
98 1,1,2,2-Tetrachloroethane	83	9.829	9.835	0.000	96	345684	25.0	28.4	
110 1,3-Dichlorobenzene	146	10.723	10.729	0.000	98	585841	25.0	25.9	
113 1,4-Dichlorobenzene	146	10.808	10.815	0.000	93	592407	25.0	25.8	
116 1,2-Dichlorobenzene	146	11.161	11.168	0.000	98	562096	25.0	26.4	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.886	0.000	77	64039	25.0	32.4	
119 1,2,4-Trichlorobenzene	180	12.573	12.580	0.000	95	355553	25.0	26.7	
S 126 Xylenes, Total	1				0			55.0	

Reagents:

8260 CORP mix_00121	Amount Added: 12.50	Units: uL	
GAS CORP mix_00267	Amount Added: 12.50	Units: uL	
N_8260_Surr_00316	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00105	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180228-69548.b\N7392.D

Injection Date: 28-Feb-2018 20:12:30

Instrument ID: HP5973N

Operator ID: RF

Lims ID: 480-131737-C-6 MSD

Worklist Smp#: 11

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

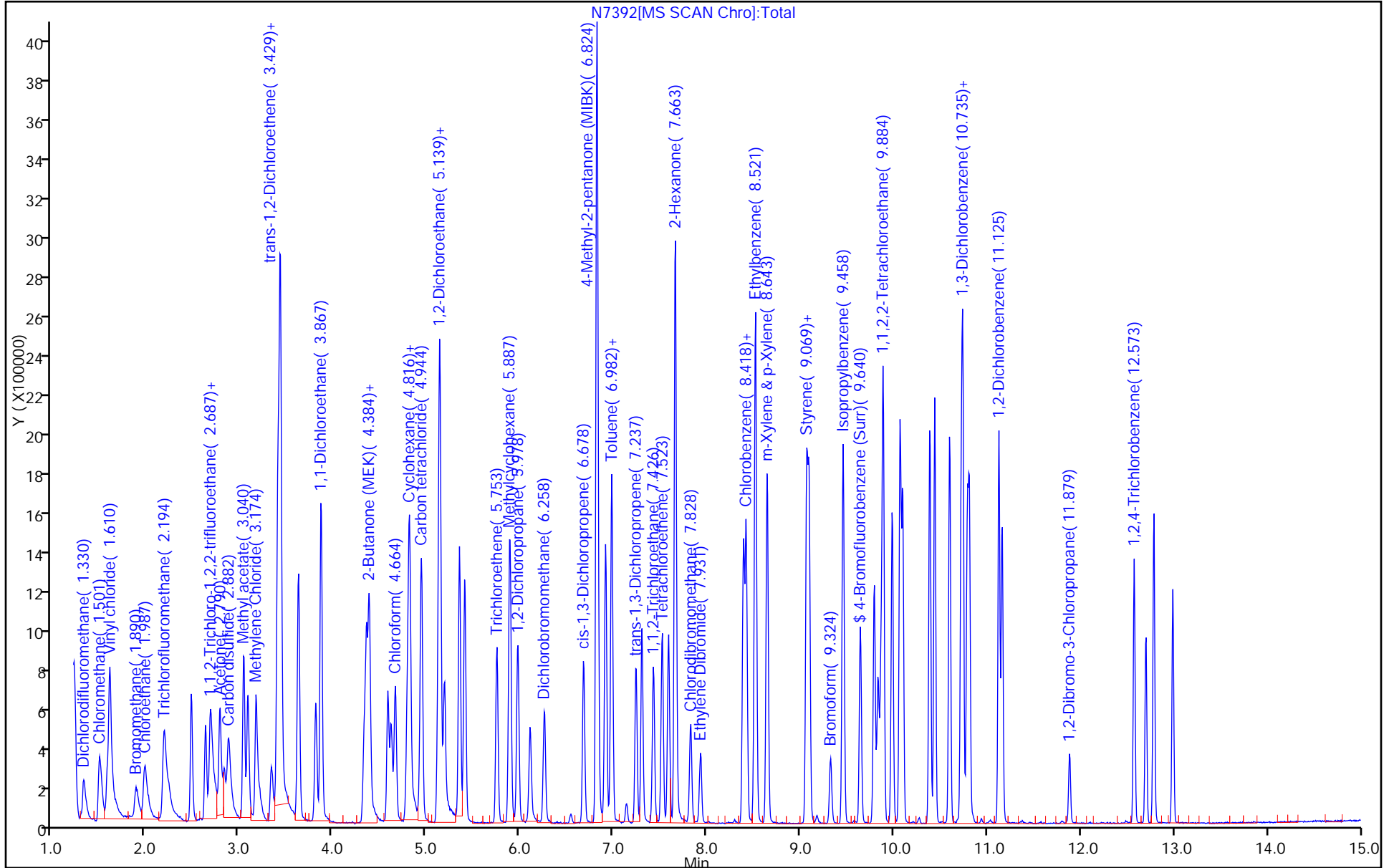
Dil. Factor: 5.0000

ALS Bottle#: 27

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 MSD Lab Sample ID: 480-131737-8 MSD
 Matrix: Water Lab File ID: N7306.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:40
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	275		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	210		10	2.1
79-00-5	1,1,2-Trichloroethane	230		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	308		10	3.1
75-34-3	1,1-Dichloroethane	292		10	3.8
75-35-4	1,1-Dichloroethene	269		10	2.9
120-82-1	1,2,4-Trichlorobenzene	292		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	206		10	3.9
95-50-1	1,2-Dichlorobenzene	267		10	7.9
107-06-2	1,2-Dichloroethane	218		10	2.1
78-87-5	1,2-Dichloropropane	257		10	7.2
541-73-1	1,3-Dichlorobenzene	259		10	7.8
106-46-7	1,4-Dichlorobenzene	265		10	8.4
78-93-3	2-Butanone (MEK)	831		100	13
591-78-6	2-Hexanone	848		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	924		50	21
67-64-1	Acetone	854		100	30
71-43-2	Benzene	279		10	4.1
75-27-4	Bromodichloromethane	250		10	3.9
75-25-2	Bromoform	218		10	2.6
74-83-9	Bromomethane	226		10	6.9
75-15-0	Carbon disulfide	270		10	1.9
56-23-5	Carbon tetrachloride	285		10	2.7
108-90-7	Chlorobenzene	259		10	7.5
124-48-1	Dibromochloromethane	235		10	3.2
75-00-3	Chloroethane	241		10	3.2
67-66-3	Chloroform	248		10	3.4
74-87-3	Chloromethane	246		10	3.5
156-59-2	cis-1,2-Dichloroethene	331		10	8.1
10061-01-5	cis-1,3-Dichloropropene	248		10	3.6
110-82-7	Cyclohexane	312		10	1.8
75-71-8	Dichlorodifluoromethane	283		10	6.8
100-41-4	Ethylbenzene	280		10	7.4
106-93-4	1,2-Dibromoethane	220		10	7.3
98-82-8	Isopropylbenzene	312		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 MSD Lab Sample ID: 480-131737-8 MSD
 Matrix: Water Lab File ID: N7306.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:40
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	331		25	13
1634-04-4	Methyl tert-butyl ether	264		10	1.6
108-87-2	Methylcyclohexane	305		10	1.6
75-09-2	Methylene Chloride	243		10	4.4
100-42-5	Styrene	259		10	7.3
127-18-4	Tetrachloroethene	264		10	3.6
108-88-3	Toluene	264		10	5.1
156-60-5	trans-1,2-Dichloroethene	261		10	9.0
10061-02-6	trans-1,3-Dichloropropene	239		10	3.7
79-01-6	Trichloroethene	258		10	4.6
75-69-4	Trichlorofluoromethane	275		10	8.8
75-01-4	Vinyl chloride	294		10	9.0
1330-20-7	Xylenes, Total	786		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7306.D
 Lims ID: 480-131737-F-8 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 25-Feb-2018 15:40:30 ALS Bottle#: 9 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 10.0000
 Sample Info: 480-131737-F-8 MSD
 Misc. Info.: 480-0069477-017
 Operator ID: AM Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Feb-2018 09:54:14 Calib Date: 31-Jan-2018 23:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180131-68951.b\N6831.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: moffata

Date: 26-Feb-2018 09:54:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.406	5.406	0.000	98	201788	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.387	8.393	-0.006	90	732186	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.784	10.790	-0.006	94	383075	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.810	4.810	0.000	86	233954	25.0	25.9	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	0	286685	25.0	23.0	
\$ 6 Toluene-d8 (Surr)	98	6.915	6.910	0.000	95	927743	25.0	25.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.640	9.639	-0.006	96	296060	25.0	25.9	
11 Dichlorodifluoromethane	85	1.330	1.318	0.012	97	296981	25.0	28.3	
13 Chloromethane	50	1.494	1.482	0.012	99	627633	25.0	24.6	
14 Vinyl chloride	62	1.580	1.574	0.006	97	523809	25.0	29.4	
15 Bromomethane	94	1.872	1.859	0.013	92	194843	25.0	22.6	
16 Chloroethane	64	1.975	1.951	0.024	94	229805	25.0	24.1	
18 Trichlorofluoromethane	101	2.188	2.170	0.018	88	424766	25.0	27.5	
22 1,1-Dichloroethene	96	2.675	2.669	0.006	91	246201	25.0	26.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.675	0.018	92	250977	25.0	30.8	
23 Acetone	43	2.784	2.790	-0.006	98	587035	125.0	85.4	
25 Carbon disulfide	76	2.869	2.863	0.006	98	772715	25.0	27.0	
28 Methyl acetate	43	3.082	3.088	-0.006	99	623371	50.0	33.1	
30 Methylene Chloride	84	3.167	3.167	0.000	89	272720	25.0	24.3	
32 Methyl tert-butyl ether	73	3.399	3.405	-0.006	92	910962	25.0	26.4	
33 trans-1,2-Dichloroethene	96	3.405	3.405	0.000	92	273831	25.0	26.1	
36 1,1-Dichloroethane	63	3.806	3.806	0.000	96	676618	25.0	29.2	
43 cis-1,2-Dichloroethene	96	4.354	4.354	0.000	86	396981	25.0	33.1	
44 2-Butanone (MEK)	43	4.384	4.390	-0.006	96	957072	125.0	83.1	
50 Chloroform	83	4.664	4.664	0.000	95	473205	25.0	24.8	
51 1,1,1-Trichloroethane	97	4.792	4.792	0.000	96	421439	25.0	27.5	
52 Cyclohexane	56	4.816	4.810	0.006	92	838663	25.0	31.2	
53 Carbon tetrachloride	117	4.938	4.932	0.006	95	367156	25.0	28.5	
55 Benzene	78	5.139	5.138	0.000	95	1199759	25.0	27.9	
57 1,2-Dichloroethane	62	5.187	5.187	0.000	94	449400	25.0	21.8	
60 Trichloroethene	95	5.747	5.747	0.000	93	291569	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.887	5.887	0.000	94	526293	25.0	30.5	
63 1,2-Dichloropropane	63	5.978	5.972	0.006	90	341666	25.0	25.7	
67 Dichlorobromomethane	83	6.258	6.258	0.000	95	349048	25.0	25.0	
71 cis-1,3-Dichloropropene	75	6.678	6.678	0.000	85	401753	25.0	24.8	
72 4-Methyl-2-pentanone (MIBK)	58	6.824	6.819	0.000	98	727322	125.0	92.4	
73 Toluene	92	6.976	6.977	-0.006	97	722768	25.0	26.4	
75 trans-1,3-Dichloropropene	75	7.237	7.238	-0.006	91	349762	25.0	23.9	
78 1,1,2-Trichloroethane	83	7.426	7.427	-0.006	94	181944	25.0	23.0	
79 Tetrachloroethene	166	7.523	7.512	0.006	95	308459	25.0	26.4	
82 2-Hexanone	43	7.663	7.658	0.000	99	1448127	125.0	84.8	
83 Chlorodibromomethane	129	7.827	7.822	0.000	89	244586	25.0	23.5	
84 Ethylene Dibromide	107	7.931	7.925	0.000	98	220161	25.0	22.0	
85 Chlorobenzene	112	8.418	8.418	-0.006	93	784592	25.0	25.9	
88 Ethylbenzene	91	8.521	8.509	0.000	98	1366884	25.0	28.0	
90 m-Xylene & p-Xylene	106	8.643	8.636	0.000	0	1006377		50.8	
91 o-Xylene	106	9.069	9.062	0.000	98	532656		27.8	
92 Styrene	104	9.093	9.086	0.000	93	842502	25.0	25.9	
93 Bromoform	173	9.324	9.317	0.000	97	145159	25.0	21.8	
95 Isopropylbenzene	105	9.458	9.453	0.000	96	1535051	25.0	31.2	
98 1,1,2,2-Tetrachloroethane	83	9.835	9.829	0.000	95	277542	25.0	21.0	
110 1,3-Dichlorobenzene	146	10.723	10.717	0.000	99	633867	25.0	25.9	
113 1,4-Dichlorobenzene	146	10.808	10.802	0.000	95	657330	25.0	26.5	
116 1,2-Dichlorobenzene	146	11.155	11.155	-0.006	97	614750	25.0	26.7	
117 1,2-Dibromo-3-Chloropropan	75	11.879	11.872	0.000	76	44118	25.0	20.6	
119 1,2,4-Trichlorobenzene	180	12.573	12.566	0.000	94	420541	25.0	29.2	
S 126 Xylenes, Total	1				0			78.6	

Reagents:

8260 CORP mix_00121

Amount Added: 12.50

Units: uL

GAS CORP mix_00266

Amount Added: 12.50

Units: uL

N_8260_Surr_00316

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00105

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180225-69477.b\N7306.D

Injection Date: 25-Feb-2018 15:40:30

Instrument ID: HP5973N

Operator ID: AM

Lims ID: 480-131737-F-8 MSD

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

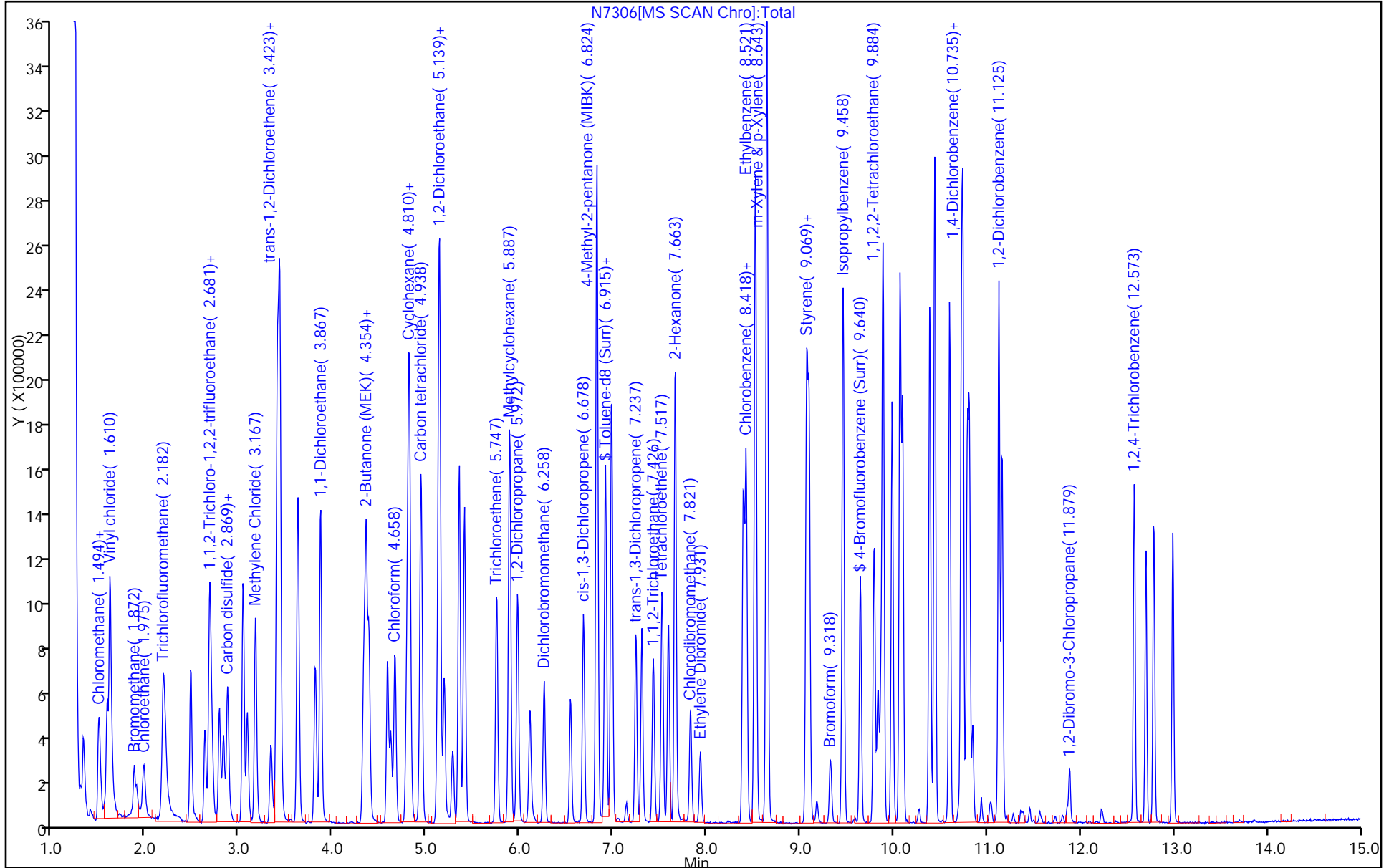
Dil. Factor: 10.0000

ALS Bottle#: 9

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5973NStart Date: 01/31/2018 14:31Analysis Batch Number: 398122End Date: 02/01/2018 01:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-398122/5		01/31/2018 14:31	1	N6811.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/7		01/31/2018 15:32	1	N6813.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/8		01/31/2018 15:59	1	N6814.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/9		01/31/2018 16:26	1	N6815.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/10		01/31/2018 16:52	1	N6816.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/11		01/31/2018 17:20	1	N6817.D	ZB-624 (20) 0.18 (mm)
ICIS 480-398122/12		01/31/2018 17:46	1	N6818.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/13		01/31/2018 18:13	1	N6819.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/14		01/31/2018 18:40	1	N6820.D	ZB-624 (20) 0.18 (mm)
MDLV 480-398122/16		01/31/2018 19:33	1		ZB-624 (20) 0.18 (mm)
IC 480-398122/19		01/31/2018 20:53	1	N6825.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/20		01/31/2018 21:20	1	N6826.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/21		01/31/2018 21:47	1	N6827.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/22		01/31/2018 22:14	1	N6828.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/23		01/31/2018 22:41	1	N6829.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/24		01/31/2018 23:09	1	N6830.D	ZB-624 (20) 0.18 (mm)
IC 480-398122/25		01/31/2018 23:35	1	N6831.D	ZB-624 (20) 0.18 (mm)
MDLV 480-398122/27		02/01/2018 00:29	1		ZB-624 (20) 0.18 (mm)
ICV 480-398122/28		02/01/2018 00:56	1		ZB-624 (20) 0.18 (mm)
ICV 480-398122/29		02/01/2018 01:23	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5973N Start Date: 02/25/2018 09:01

Analysis Batch Number: 401359 End Date: 02/25/2018 15:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-401359/2		02/25/2018 09:01	1	N7292.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-401359/3		02/25/2018 09:25	1	N7293.D	ZB-624 (20) 0.18 (mm)
LCS 480-401359/5		02/25/2018 10:19	1	N7295.D	ZB-624 (20) 0.18 (mm)
RL 480-401359/6		02/25/2018 10:46	1		ZB-624 (20) 0.18 (mm)
MB 480-401359/7		02/25/2018 11:12	1	N7297.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 12:05	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 12:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 12:59	4		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 13:26	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 13:53	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 14:20	4		ZB-624 (20) 0.18 (mm)
480-131737-8		02/25/2018 14:47	10	N7304.D	ZB-624 (20) 0.18 (mm)
480-131737-8 MS		02/25/2018 15:14	10	N7305.D	ZB-624 (20) 0.18 (mm)
480-131737-8 MSD		02/25/2018 15:40	10	N7306.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5973N Start Date: 02/26/2018 08:52Analysis Batch Number: 401400 End Date: 02/26/2018 16:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-401400/2		02/26/2018 08:52	1	N7308.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-401400/3		02/26/2018 09:17	1	N7309.D	ZB-624 (20) 0.18 (mm)
LCS 480-401400/5		02/26/2018 10:11	1	N7311.D	ZB-624 (20) 0.18 (mm)
RL 480-401400/6		02/26/2018 10:37	1		ZB-624 (20) 0.18 (mm)
MB 480-401400/7		02/26/2018 11:04	1	N7313.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 13:25	1		ZB-624 (20) 0.18 (mm)
480-131737-2		02/26/2018 13:52	40	N7316.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 14:18	80		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 14:45	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 15:11	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 15:38	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 16:04	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/26/2018 16:31	5		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5973N Start Date: 02/28/2018 08:43

Analysis Batch Number: 401795 End Date: 02/28/2018 20:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-401795/2		02/28/2018 08:43	1	N7367.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-401795/3		02/28/2018 09:07	1	N7368.D	ZB-624 (20) 0.18 (mm)
CCV 480-401795/4		02/28/2018 09:34	1	N7369.D	ZB-624 (20) 0.18 (mm)
LCS 480-401795/5		02/28/2018 10:01	1	N7370.D	ZB-624 (20) 0.18 (mm)
RL 480-401795/6		02/28/2018 10:29	1		ZB-624 (20) 0.18 (mm)
MB 480-401795/7		02/28/2018 10:56	1	N7372.D	ZB-624 (20) 0.18 (mm)
480-131737-4		02/28/2018 11:37	40	N7373.D	ZB-624 (20) 0.18 (mm)
480-131737-6		02/28/2018 12:04	5	N7374.D	ZB-624 (20) 0.18 (mm)
480-131737-7		02/28/2018 12:31	5	N7375.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 12:58	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 13:25	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 13:52	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 14:19	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 14:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 15:14	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 15:41	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 16:08	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 16:36	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 17:03	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 17:30	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 17:57	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 18:24	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 18:51	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/28/2018 19:18	5		ZB-624 (20) 0.18 (mm)
480-131737-6 MS		02/28/2018 19:45	5	N7391.D	ZB-624 (20) 0.18 (mm)
480-131737-6 MSD		02/28/2018 20:12	5	N7392.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 01/09/2018 23:52Analysis Batch Number: 395114End Date: 01/10/2018 09:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-395114/2		01/09/2018 23:52	1	S6361.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/4		01/10/2018 00:42	1	S6363.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/5		01/10/2018 01:05	1	S6364.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/6		01/10/2018 01:28	1	S6365.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/7		01/10/2018 01:51	1	S6366.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/8		01/10/2018 02:15	1	S6367.D	ZB-624 (20) 0.18 (mm)
ICIS 480-395114/9		01/10/2018 02:38	1	S6368.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/10		01/10/2018 03:01	1	S6369.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/11		01/10/2018 03:24	1	S6370.D	ZB-624 (20) 0.18 (mm)
MDLV 480-395114/13		01/10/2018 04:11	1		ZB-624 (20) 0.18 (mm)
IC 480-395114/16		01/10/2018 05:21	1	S6375.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/17		01/10/2018 05:44	1	S6376.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/18		01/10/2018 06:07	1	S6377.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/19		01/10/2018 06:31	1	S6378.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/20		01/10/2018 06:54	1	S6379.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/21		01/10/2018 07:17	1	S6380.D	ZB-624 (20) 0.18 (mm)
IC 480-395114/22		01/10/2018 07:40	1	S6381.D	ZB-624 (20) 0.18 (mm)
MDLV 480-395114/24		01/10/2018 08:27	1		ZB-624 (20) 0.18 (mm)
ICV 480-395114/25		01/10/2018 08:50	1		ZB-624 (20) 0.18 (mm)
ICV 480-395114/26		01/10/2018 09:13	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 02/25/2018 08:46Analysis Batch Number: 401358End Date: 02/25/2018 19:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-401358/2		02/25/2018 08:46	1	S7851.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-401358/3		02/25/2018 09:15	1	S7852.D	ZB-624 (20) 0.18 (mm)
CCV 480-401358/4		02/25/2018 09:38	1	S7853.D	ZB-624 (20) 0.18 (mm)
LCS 480-401358/5		02/25/2018 10:01	1	S7854.D	ZB-624 (20) 0.18 (mm)
RL 480-401358/6		02/25/2018 10:24	1		ZB-624 (20) 0.18 (mm)
MB 480-401358/7		02/25/2018 10:48	1	S7856.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 11:52	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 12:15	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 12:38	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 13:02	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 13:25	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 13:48	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 14:12	1		ZB-624 (20) 0.18 (mm)
480-131737-1		02/25/2018 14:35	10	S7864.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 14:58	100		ZB-624 (20) 0.18 (mm)
480-131737-3		02/25/2018 15:22	5	S7866.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 15:45	200		ZB-624 (20) 0.18 (mm)
480-131737-5		02/25/2018 16:08	10	S7868.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 16:32	100		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 16:55	200		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 17:18	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 17:42	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 18:05	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 18:28	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 18:52	100		ZB-624 (20) 0.18 (mm)
ZZZZZ		02/25/2018 19:15	100		ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401358 Batch Start Date: 02/25/18 08:46 Batch Analyst: Moffat, Alyssa M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	2MTP_WRK 00071	3MTP_WRK 00072	8260 CORP mix 00119
BFB 480-401358/2		8260C		1 uL	1 uL				
CCVIS 480-401358/3		8260C		5 mL	5 mL				12.5 uL
CCV 480-401358/4		8260C		5 mL	5 mL		12.5 uL	12.5 uL	
LCS 480-401358/5		8260C		5 mL	5 mL				12.5 uL
MB 480-401358/7		8260C		5 mL	5 mL				
480-131737-F-1	ML-2S	8260C	T	5 mL	5 mL	7 SU			
480-131737-F-3	ML-2D	8260C	T	5 mL	5 mL	7 SU			
480-131737-F-5	ML-7D	8260C	T	5 mL	5 mL	4 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	ADD CORP mix 00067	BFB_WRK 00068	GAS CORP mix 00266	S_8260_IS 00282	S_8260_Surr 00253	AnalysisComment
BFB 480-401358/2		8260C			1 uL				
CCVIS 480-401358/3		8260C				12.5 uL	1 uL	1 uL	
CCV 480-401358/4		8260C		12.5 uL			1 uL	1 uL	
LCS 480-401358/5		8260C				12.5 uL	1 uL	1 uL	
MB 480-401358/7		8260C					1 uL	1 uL	
480-131737-F-1	ML-2S	8260C	T				1 uL	1 uL	Targets
480-131737-F-3	ML-2D	8260C	T				1 uL	1 uL	Targets
480-131737-F-5	ML-7D	8260C	T				1 uL	1 uL	Targets

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401359 Batch Start Date: 02/25/18 09:01 Batch Analyst: Moffat, Alyssa M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00121	BFB_WRK 00068	GAS CORP mix 00266
BFB 480-401359/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-401359/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-401359/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-401359/7		8260C		5 mL	5 mL				
480-131737-F-8	LBA-SBW-16	8260C	T	5 mL	5 mL	7 SU			
480-131737-F-8 MS	LBA-SBW-16	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL
480-131737-F-8 MSD	LBA-SBW-16	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00105	N_8260_Surr 00316	AnalysisComment			
BFB 480-401359/2		8260C							
CCVIS 480-401359/3		8260C		1 uL	1 uL				
LCS 480-401359/5		8260C		1 uL	1 uL				
MB 480-401359/7		8260C		1 uL	1 uL				
480-131737-F-8	LBA-SBW-16	8260C	T	1 uL	1 uL	Targets			
480-131737-F-8 MS	LBA-SBW-16	8260C	T	1 uL	1 uL	Targets Batch QC			
480-131737-F-8 MSD	LBA-SBW-16	8260C	T	1 uL	1 uL	Targets Batch QC			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401400 Batch Start Date: 02/26/18 08:52 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00121	BFB_WRK 00068	GAS CORP mix 00266
BFB 480-401400/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-401400/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-401400/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-401400/7		8260C		5 mL	5 mL				
480-131737-G-2	ML-2I	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00105	N_8260_Surr 00316	AnalysisComment			
BFB 480-401400/2		8260C							
CCVIS 480-401400/3		8260C		1 uL	1 uL				
LCS 480-401400/5		8260C		1 uL	1 uL				
MB 480-401400/7		8260C		1 uL	1 uL				
480-131737-G-2	ML-2I	8260C	T	1 uL	1 uL	targets			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401795 Batch Start Date: 02/28/18 08:43 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	2MTP_WRK 00071	3MTP_WRK 00072	8260 CORP mix 00121
BFB 480-401795/2		8260C		1 uL	1 uL				
CCVIS 480-401795/3		8260C		5 mL	5 mL				12.5 uL
CCV 480-401795/4		8260C		5 mL	5 mL		12.5 uL	12.5 uL	
LCS 480-401795/5		8260C		5 mL	5 mL				12.5 uL
MB 480-401795/7		8260C		5 mL	5 mL				
480-131737-H-4	ML-7I	8260C	T	5 mL	5 mL	<2 SU			
480-131737-H-6	LBA-SBW-15	8260C	T	5 mL	5 mL	<2 SU			
480-131737-C-6 MS	LBA-SBW-15	8260C	T	5 mL	5 mL	<2 SU			12.5 uL
480-131737-C-6 MSD	LBA-SBW-15	8260C	T	5 mL	5 mL	<2 SU			12.5 uL
480-131737-C-7	DUPE	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	ADD CORP mix 00068	BFB_WRK 00068	GAS CORP mix 00267	N 8260 IS 00105	N_8260_Surr 00316	
BFB 480-401795/2		8260C			1 uL				
CCVIS 480-401795/3		8260C				12.5 uL	1 uL	1 uL	
CCV 480-401795/4		8260C		12.5 uL			1 uL	1 uL	
LCS 480-401795/5		8260C				12.5 uL	1 uL	1 uL	
MB 480-401795/7		8260C					1 uL	1 uL	
480-131737-H-4	ML-7I	8260C	T				1 uL	1 uL	
480-131737-H-6	LBA-SBW-15	8260C	T				1 uL	1 uL	
480-131737-C-6 MS	LBA-SBW-15	8260C	T			12.5 uL	1 uL	1 uL	
480-131737-C-6 MSD	LBA-SBW-15	8260C	T			12.5 uL	1 uL	1 uL	
480-131737-C-7	DUPE	8260C	T				1 uL	1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401795 Batch Start Date: 02/28/18 08:43 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_06_268.D
 Lab ID: LCS 480-401576/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	16.5	113	79-120	
Ethene	13.6	14.8	109	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_06_269.D

Lab ID: LCSD 480-401576/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	14.6	16.3	112	1	50	79-120	
Ethene	13.6	14.5	106	2	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: MB 480-401576/3
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_06_267.D Lab File ID: (2) _____
 Date Analyzed: (1) 02/27/2018 07:24 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-401576/4	02/27/2018 07:42	
	LCSD 480-401576/5	02/27/2018 08:00	
ML-2S	480-131737-1	02/27/2018 09:09	
ML-2I	480-131737-2	02/27/2018 09:27	
ML-2D	480-131737-3	02/27/2018 09:44	
ML-7I	480-131737-4	02/27/2018 10:02	
ML-7D	480-131737-5	02/27/2018 10:19	
LBA-SBW-15	480-131737-6	02/27/2018 10:37	
LBA-SBW-16	480-131737-8	02/27/2018 10:54	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: 21_06_271.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 13:05
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 09:09
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	ND		310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_271.D
 Lims ID: 480-131737-I-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 27-Feb-2018 09:09:32 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.753	0.000	4836	-1.99
2	1.550	1.553	-0.003	6490	-2.78

3 Ethylene

1	2.413	2.420	-0.007	910	-4.12
2	1.470	1.470	0.000	1140	-5.32

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_271.D

Injection Date: 27-Feb-2018 09:09:32

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-I-1

Lab Sample ID: 480-131737-1

Worklist Smp#: 7

Client ID: ML-2S

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

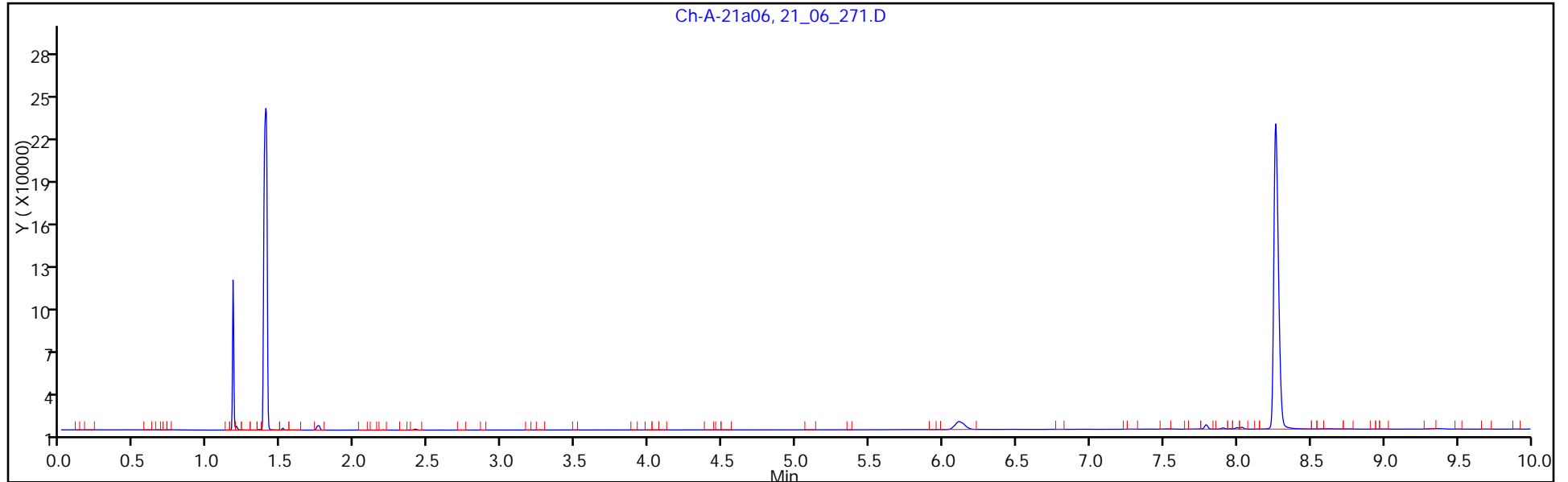
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

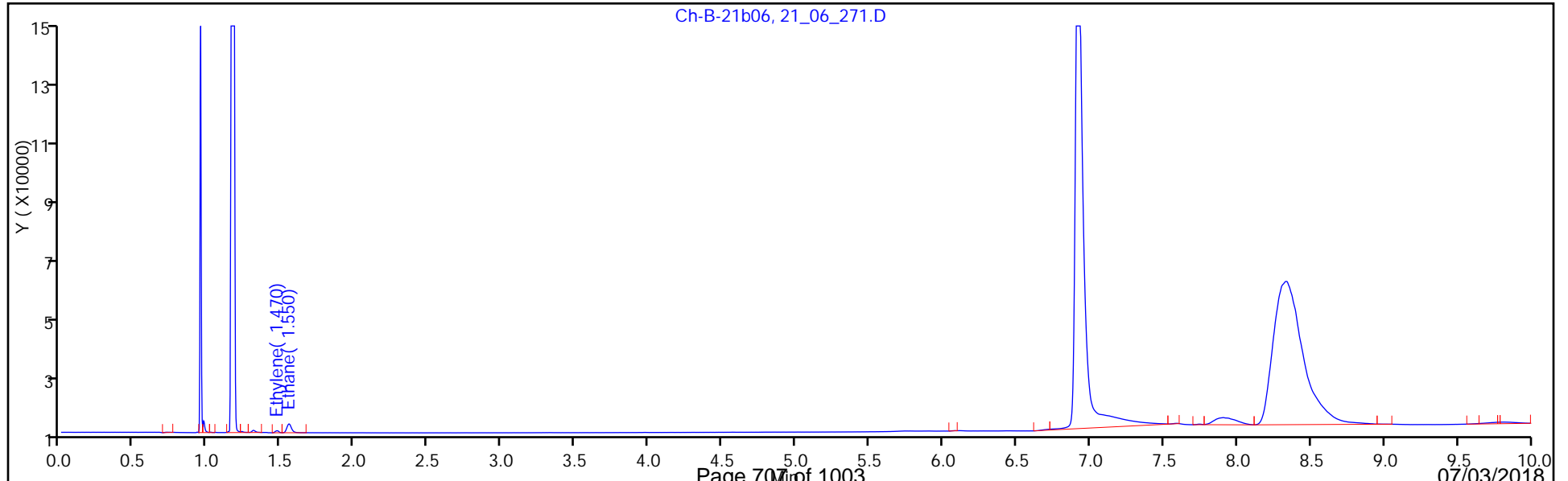
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Matrix: Water Lab File ID: 21_06_272.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 15:10
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 09:27
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	230	J	330	66
74-85-1	Ethene	980		310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_272.D
 Lims ID: 480-131737-K-2
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 27-Feb-2018 09:27:06 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

2 Ethane

1	1.753	1.753	0.000	15849	5.22	
2	1.553	1.553	0.000	21503	5.01	

3 Ethylene

1	2.413	2.420	-0.007	37805	22.3	
2	1.470	1.470	0.000	49128	22.5	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_272.D

Injection Date: 27-Feb-2018 09:27:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-K-2

Lab Sample ID: 480-131737-2

Worklist Smp#: 8

Client ID: ML-2I

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

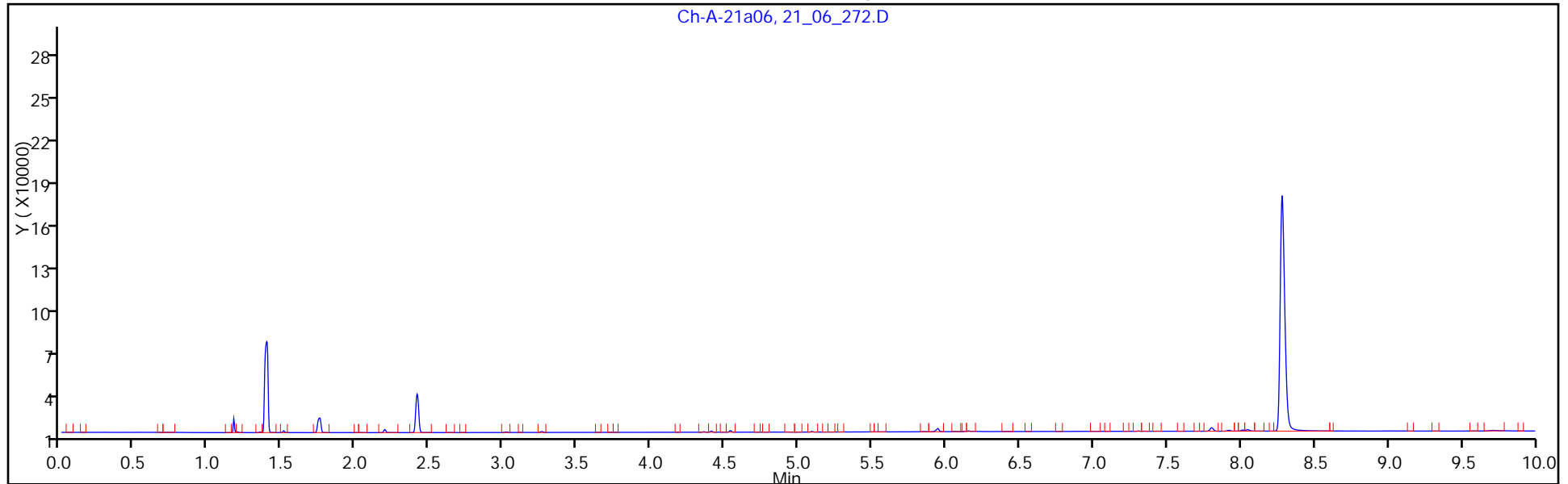
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

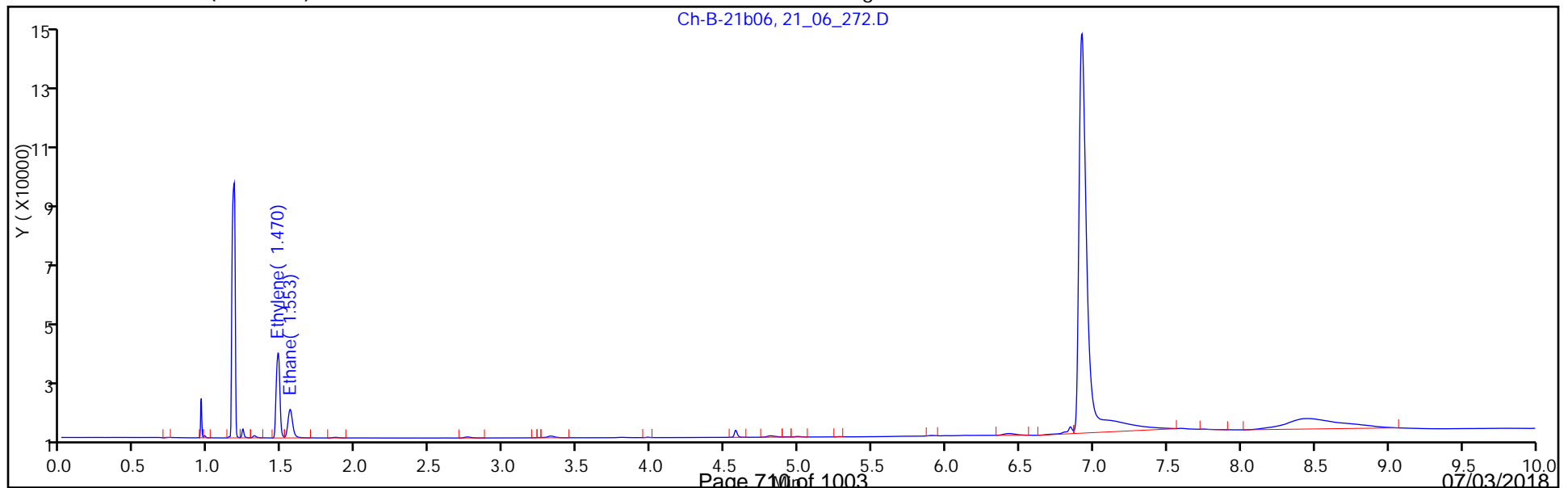
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: 21_06_273.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 16:10
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 09:44
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	ND		310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_273.D
 Lims ID: 480-131737-K-3
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 27-Feb-2018 09:44:36 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.753	0.000	5865	-1.32	
2	1.553	1.553	0.000	7967	-2.01	

3 Ethylene

1	2.420	2.420	0.000	7064	0.2924	
2	1.470	1.470	0.000	9448	-0.4970	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_273.D

Injection Date: 27-Feb-2018 09:44:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-K-3

Lab Sample ID: 480-131737-3

Worklist Smp#: 9

Client ID: ML-2D

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

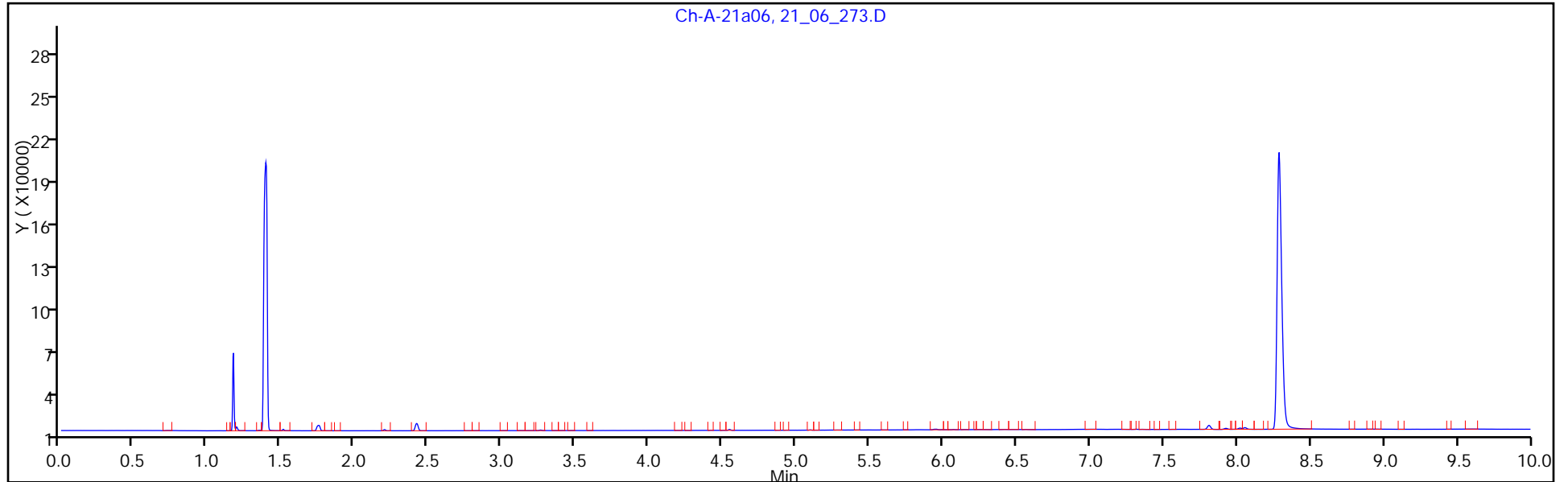
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

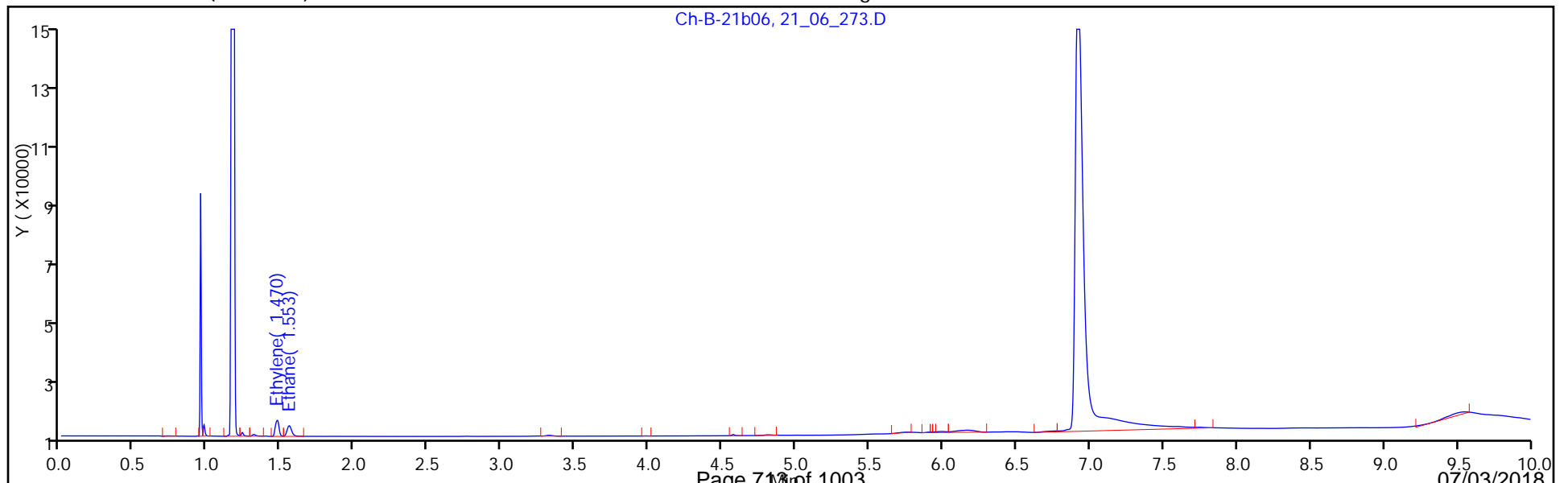
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: 21_06_274.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 09:10
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:02
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	150	J	330	66
74-85-1	Ethene	1100		310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_274.D
 Lims ID: 480-131737-K-4
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 27-Feb-2018 10:02:06 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.753	0.000	13051	3.38	
2	1.553	1.553	0.000	17900	3.14	

3 Ethylene

1	2.423	2.420	0.003	41083	24.7	
2	1.470	1.470	0.000	53600	25.1	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_274.D

Injection Date: 27-Feb-2018 10:02:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-K-4

Lab Sample ID: 480-131737-4

Worklist Smp#: 10

Client ID: ML-71

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

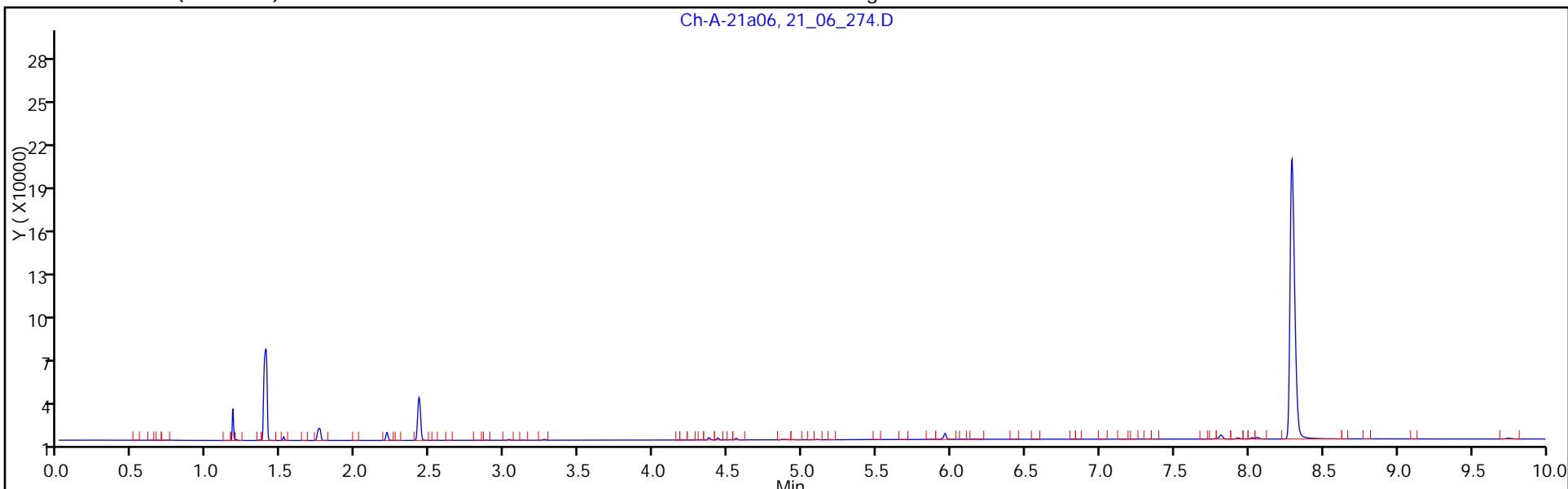
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

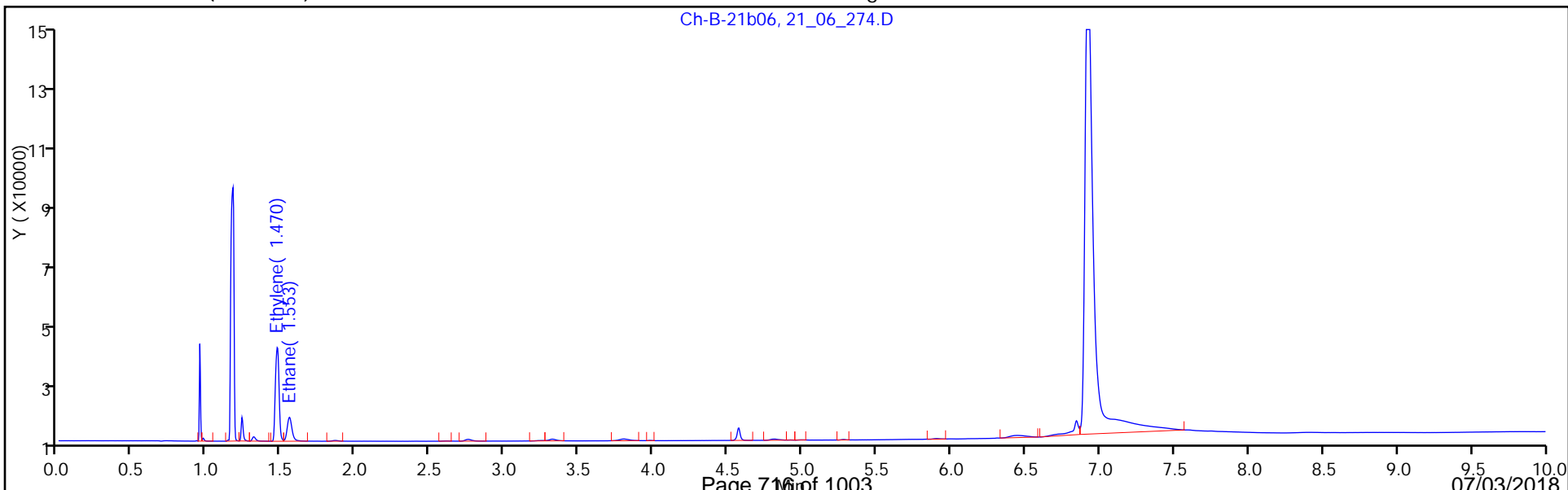
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: 21_06_275.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 10:30
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:19
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	110	J	330	66
74-85-1	Ethene	1300		310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_275.D
 Lims ID: 480-131737-I-5
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 27-Feb-2018 10:19:36 ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.753	0.000	11720	2.51	
2	1.553	1.553	0.000	15986	2.15	

3 Ethylene

1	2.427	2.420	0.007	48454	29.9	
2	1.470	1.470	0.000	62885	30.5	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_275.D

Injection Date: 27-Feb-2018 10:19:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-I-5

Lab Sample ID: 480-131737-5

Worklist Smp#: 11

Client ID: ML-7D

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

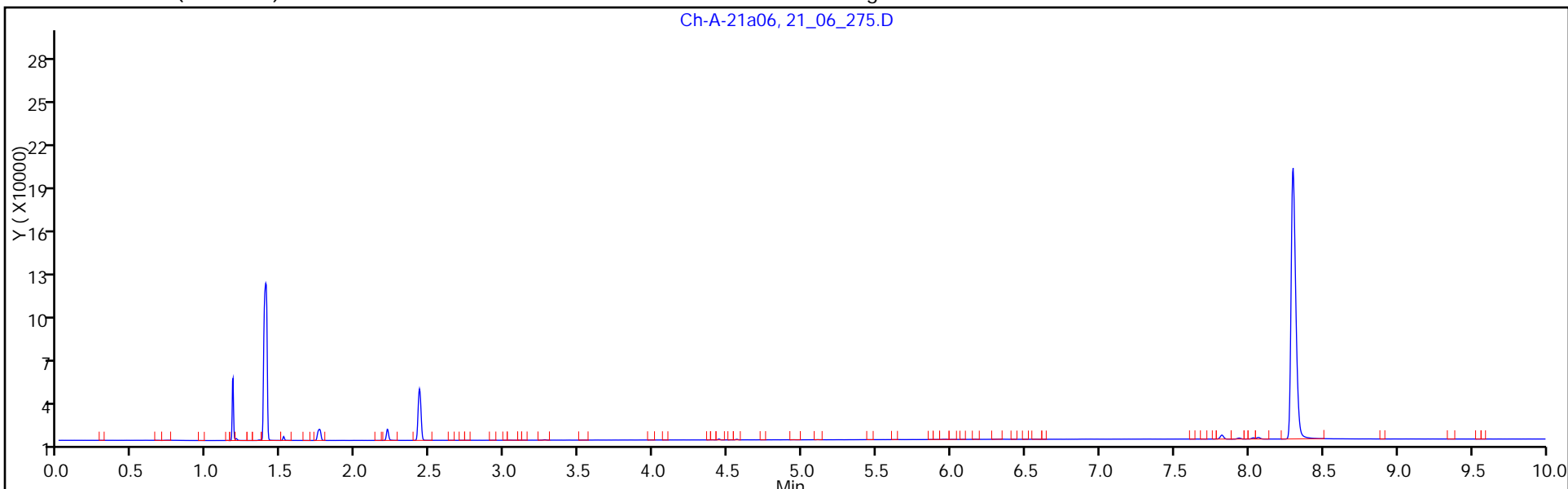
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

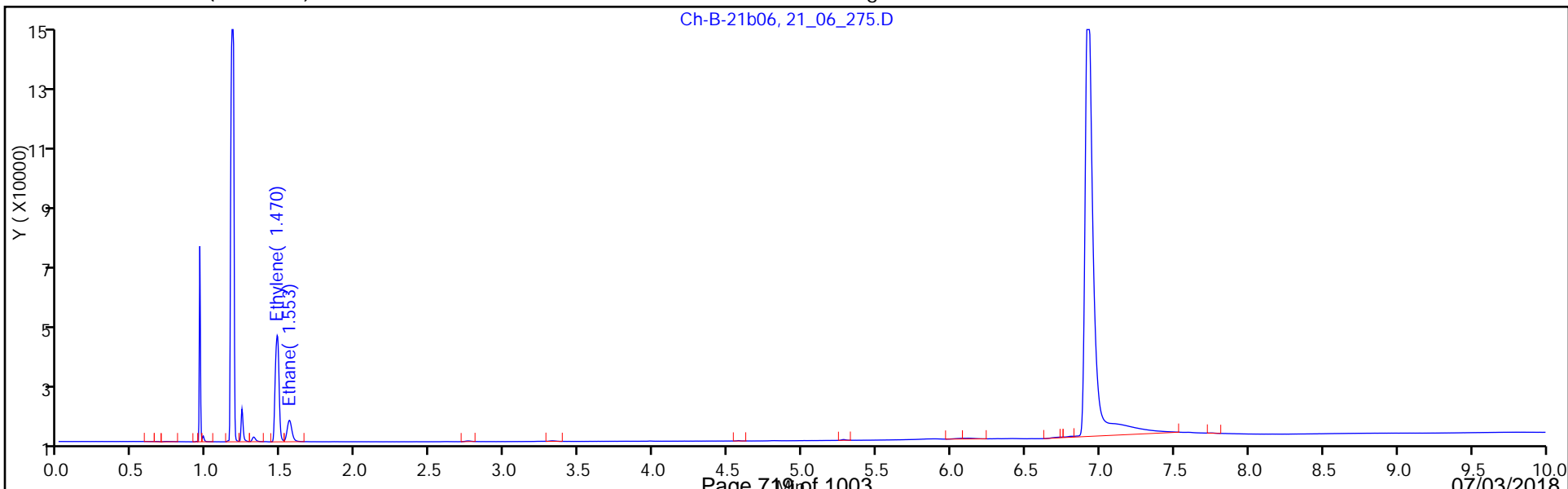
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: 21_06_276.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 11:40
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:37
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	ND		310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_276.D
 Lims ID: 480-131737-I-6
 Client ID: LBA-SBW-15
 Sample Type: Client
 Inject. Date: 27-Feb-2018 10:37:06 ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.757	1.753	0.004	5255	-1.72
2	1.553	1.553	0.000	7105	-2.46

3 Ethylene

1	2.433	2.420	0.013	5229	-1.02
2	1.470	1.470	0.000	7121	-1.85

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_276.D

Injection Date: 27-Feb-2018 10:37:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-I-6

Lab Sample ID: 480-131737-6

Worklist Smp#: 12

Client ID: LBA-SBW-15

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

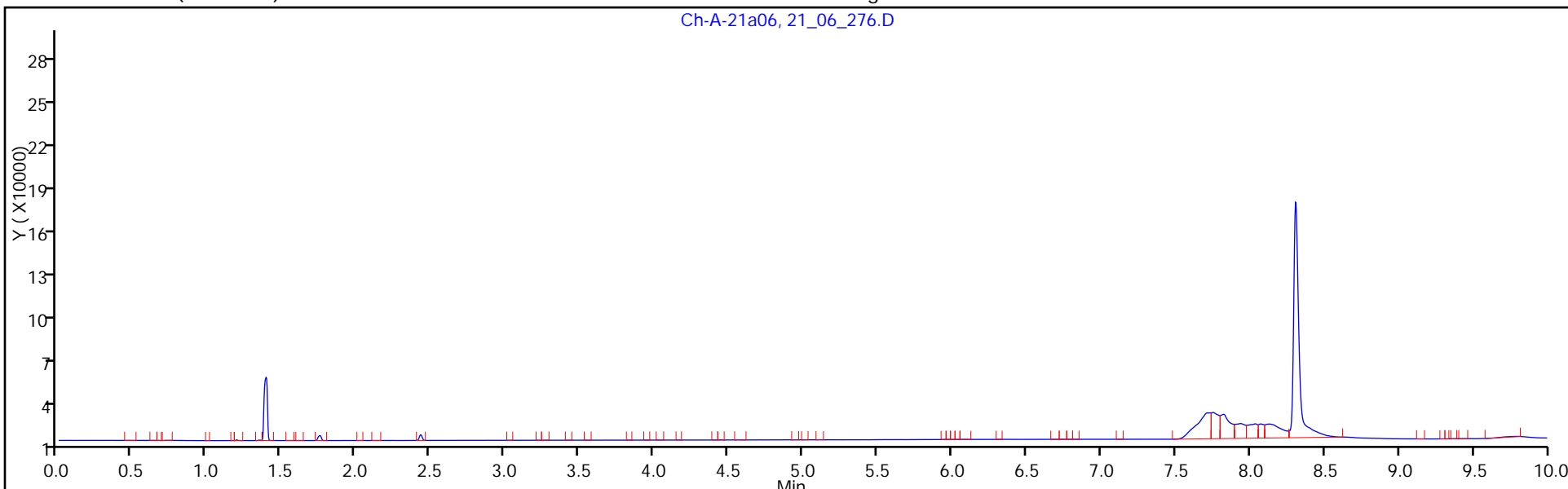
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

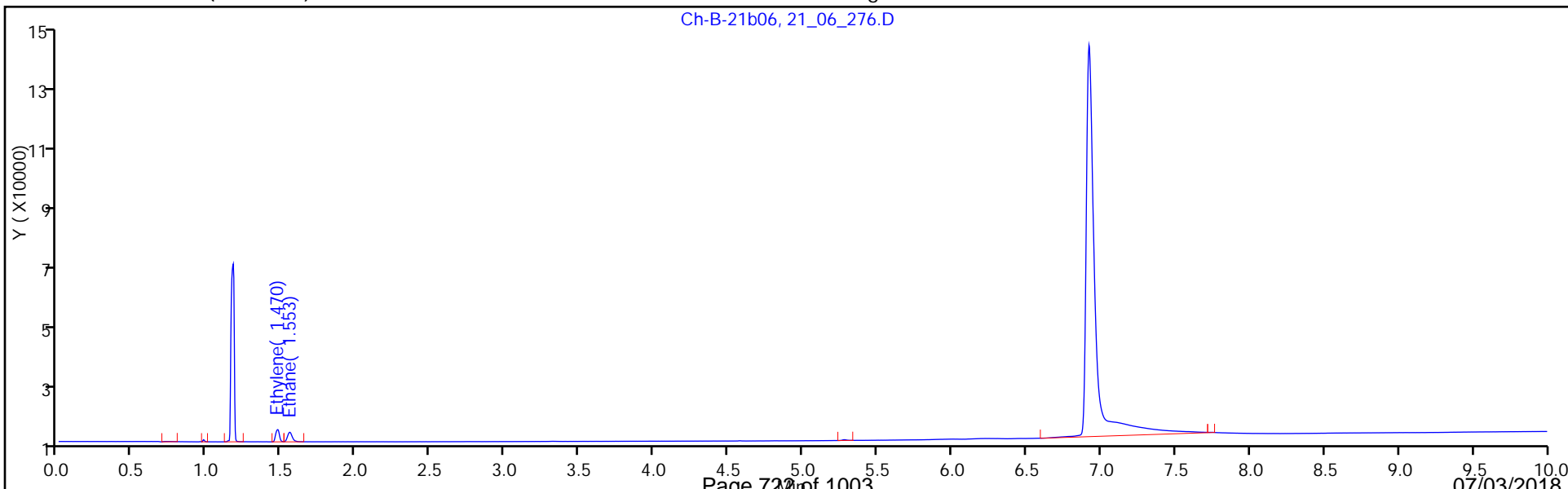
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: 21_06_277.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 14:15
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:54
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	100	J	310	66

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_277.D
 Lims ID: 480-131737-J-8
 Client ID: LBA-SBW-16
 Sample Type: Client
 Inject. Date: 27-Feb-2018 10:54:36 ALS Bottle#: 0 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 44.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.757	1.753	0.004	6756	-0.7359
2	1.553	1.553	0.000	9085	-1.43

3 Ethylene

1	2.437	2.420	0.017	9813	2.26
2	1.470	1.470	0.000	12993	1.56

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_277.D

Injection Date: 27-Feb-2018 10:54:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-131737-J-8

Lab Sample ID: 480-131737-8

Worklist Smp#: 13

Client ID: LBA-SBW-16

Purge Vol: 5.000 mL

Dil. Factor: 44.0000

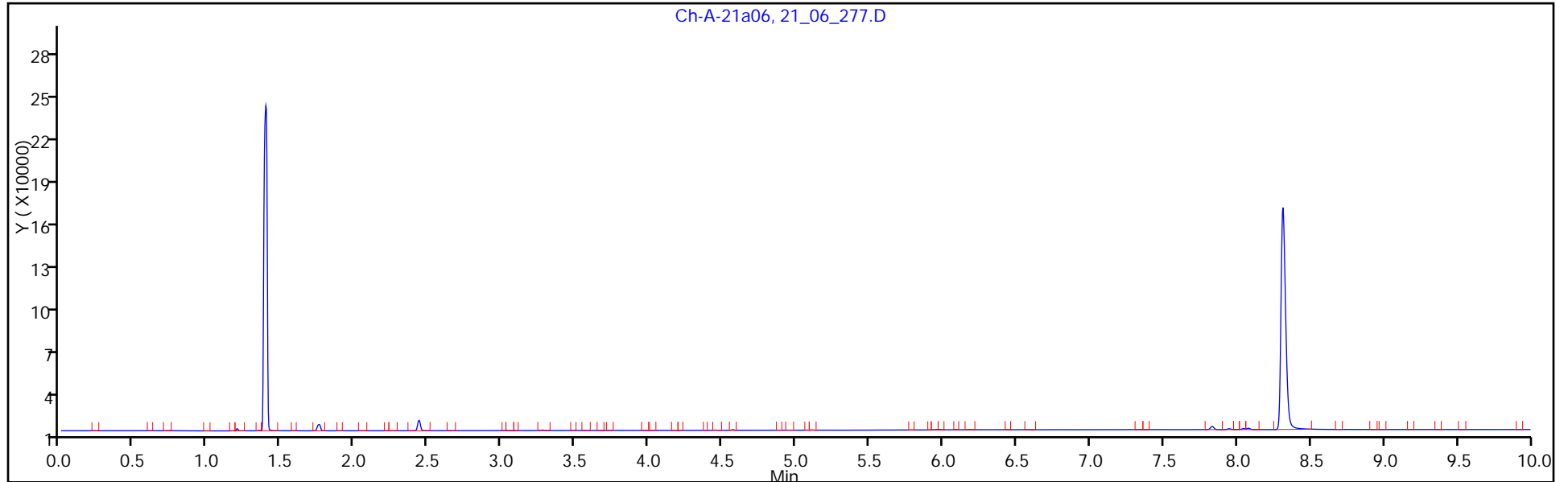
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

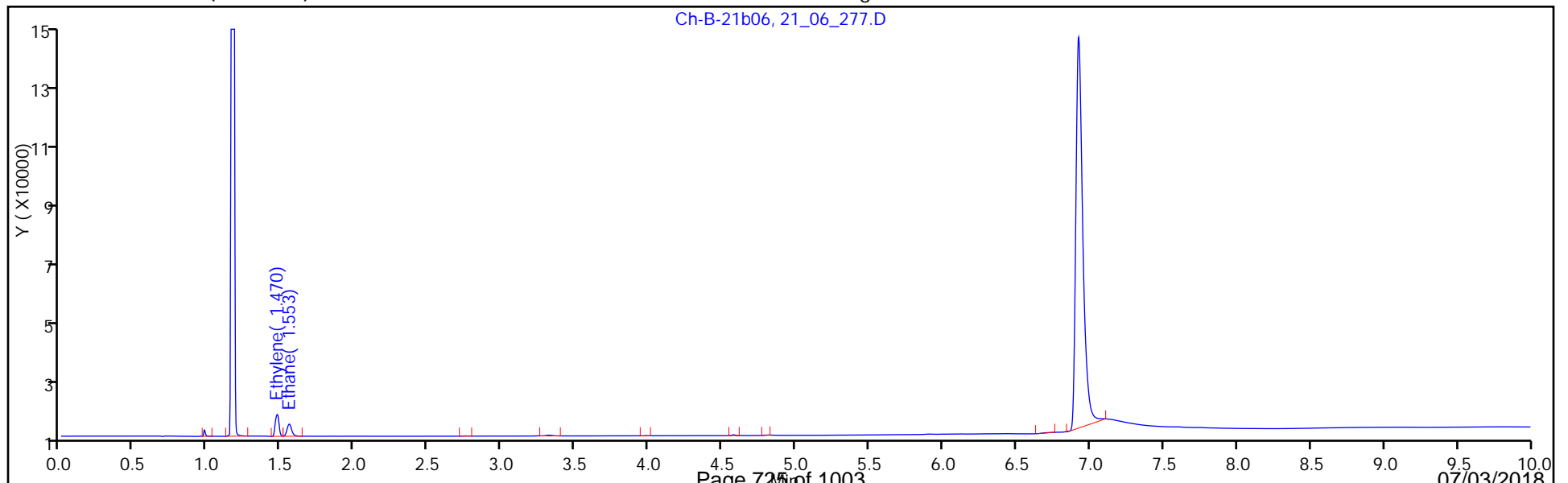
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124						0.9980			0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962						0.9980			0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756						0.9980			0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753						0.9970			0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147						0.9930			0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	Lin1	9749	14857	34711	62430	125878	3.88	7.77	19.4	38.8	77.7
		229956	348303	441234	534455		155	233	311	388	
Ethane	Lin1	18234	28234	67776	121900	247603	7.28	14.6	36.4	72.8	146
		450167	686896	868187	+++++		291	437	583	+++++	
Ethene	Lin1	15388	24254	57298	104285	211496	6.80	13.6	34.0	68.0	136
		384441	587597	737510	+++++		272	408	544	+++++	
Propane	Lin1	27946	43073	103995	185489	380021	10.7	21.4	53.4	107	214
		684190	+++++	+++++	+++++		427	+++++	+++++	+++++	
Butane	Lin1	37264	57053	138358	247119	587931	13.9	27.9	69.7	139	279
		1013085	+++++	+++++	+++++		558	+++++	+++++	+++++	

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	
2 Ethane							
1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	
3 Ethylene							
1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	
4 Propane							
1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	
5 Butane							
1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

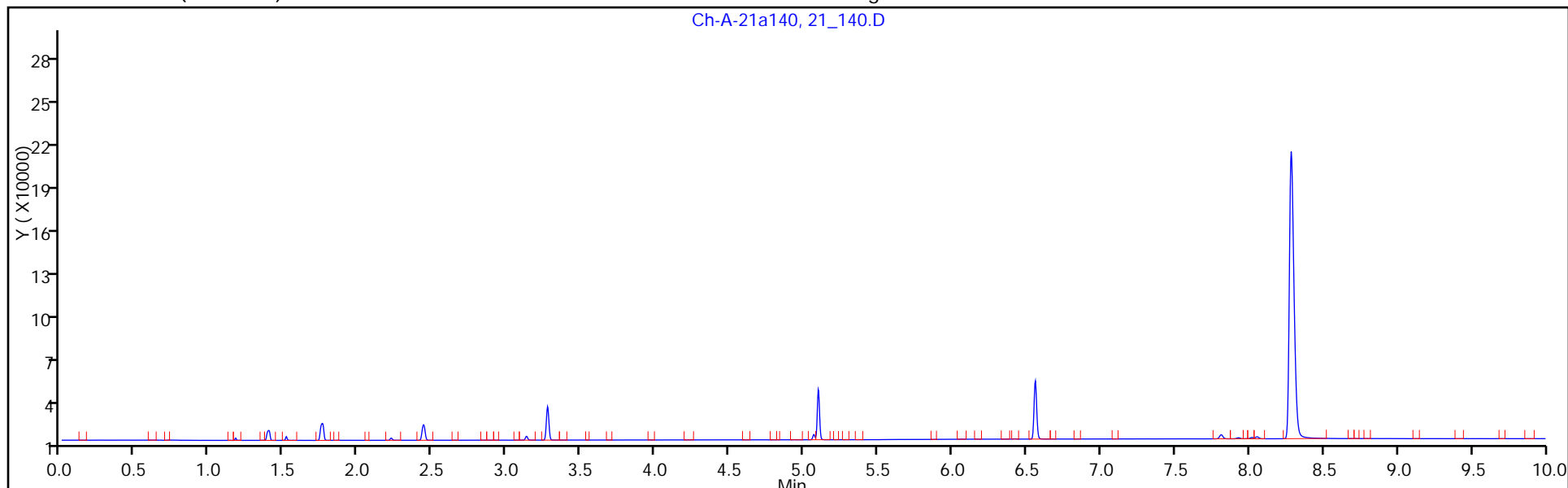
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

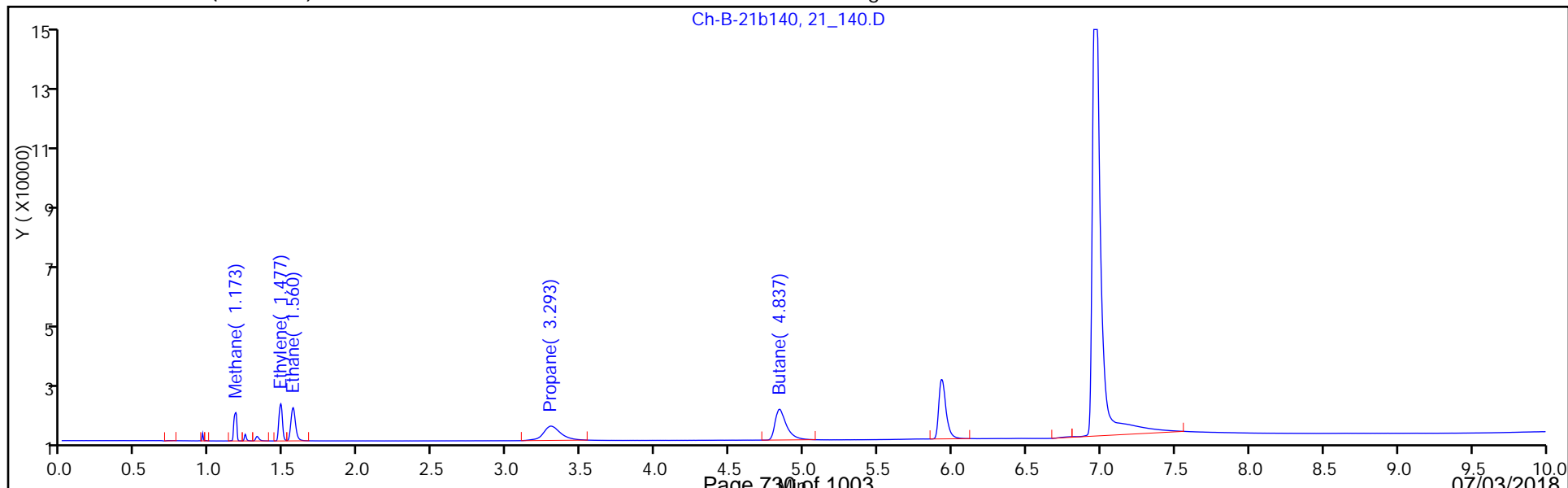
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	
2 Ethane							
1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	
3 Ethylene							
1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	
4 Propane							
1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	
5 Butane							
1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

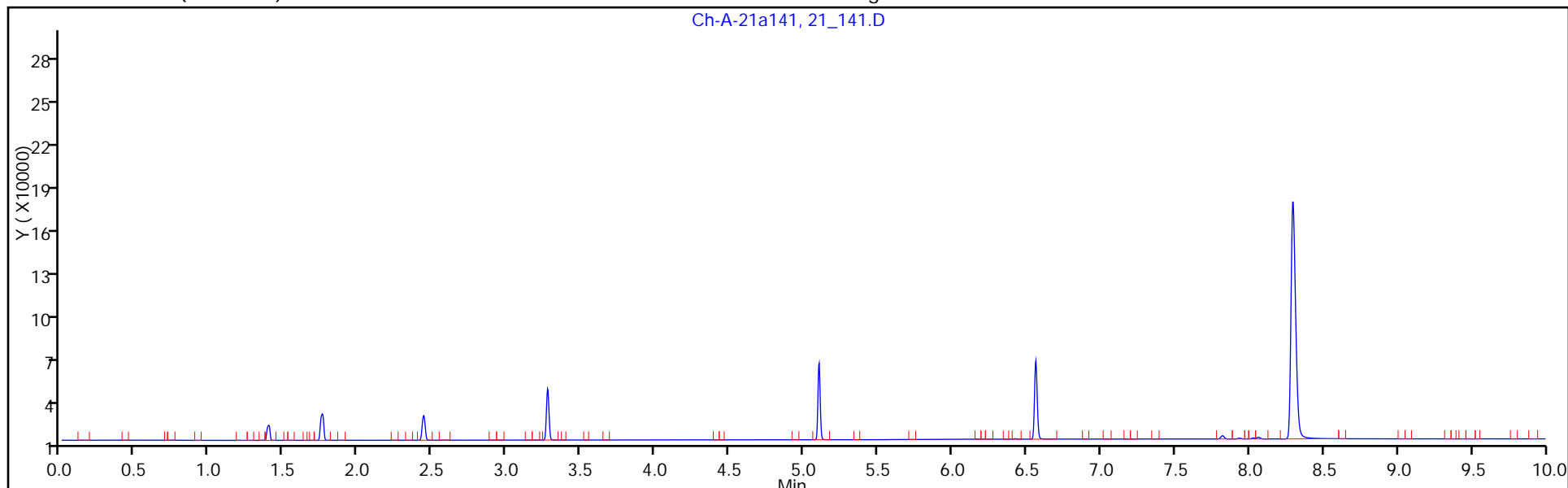
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

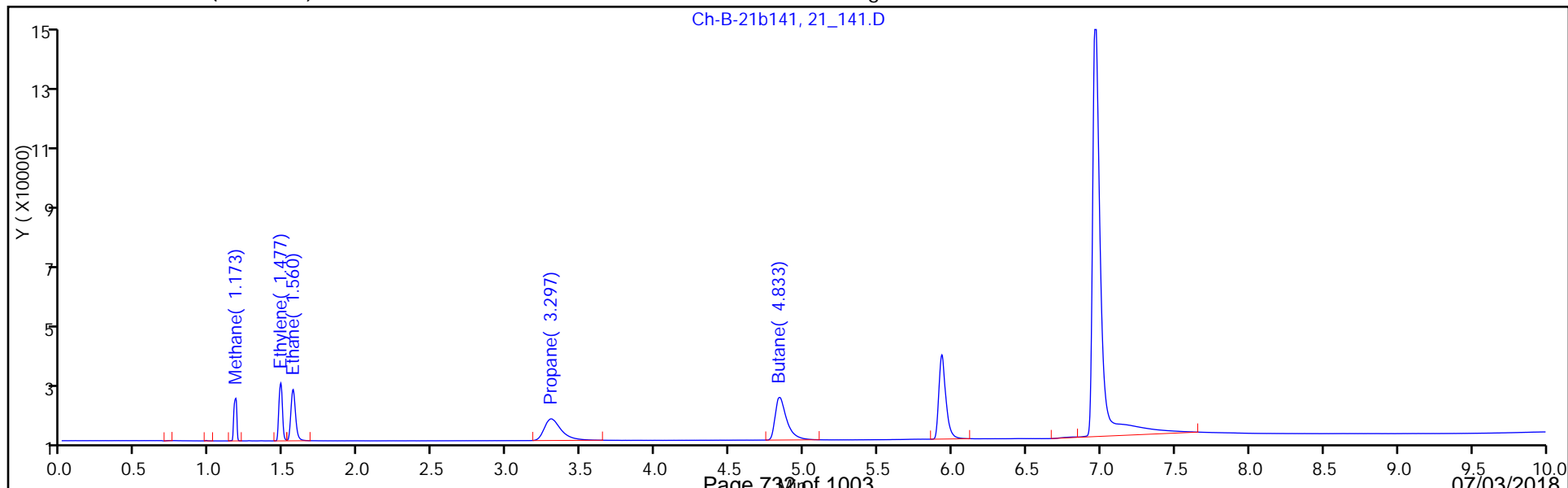
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	
2 Ethane							
1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	
3 Ethylene							
1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	
4 Propane							
1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	
5 Butane							
1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022 Amount Added: 50.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

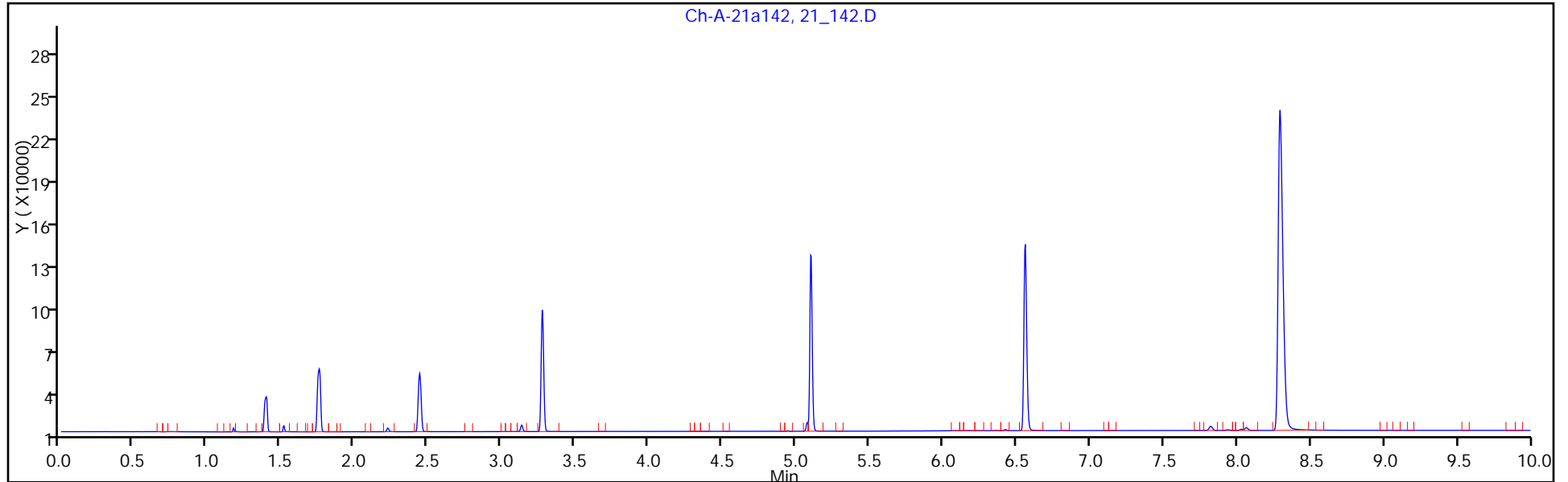
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

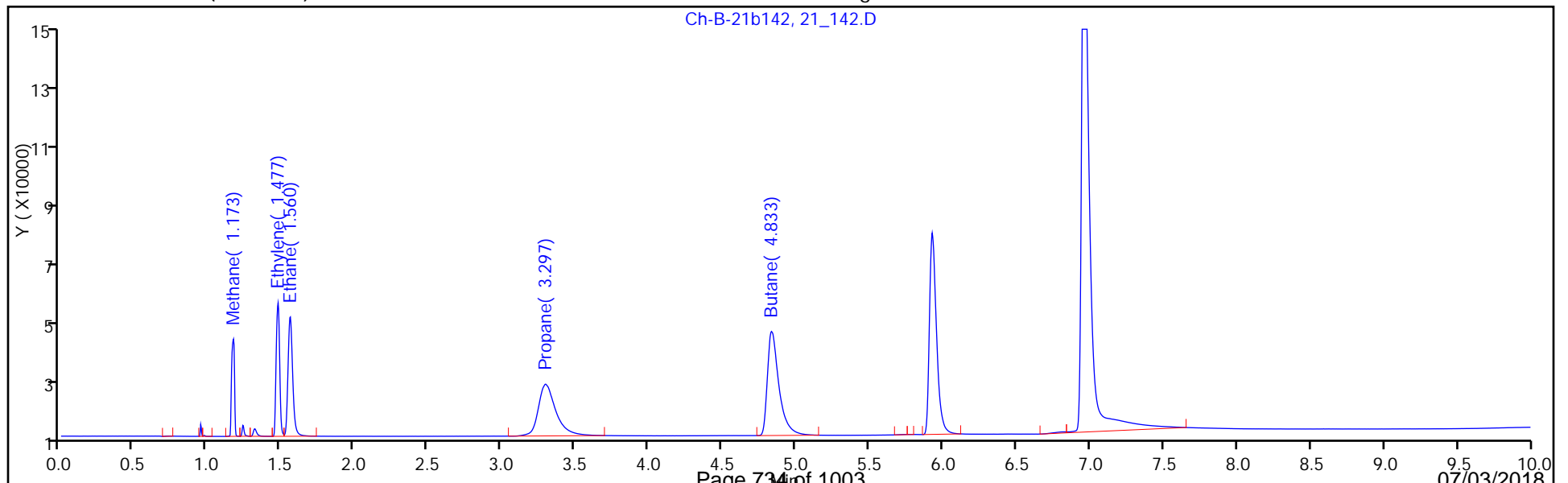
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	
2 Ethane							
1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	
3 Ethylene							
1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	
4 Propane							
1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	
5 Butane							
1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

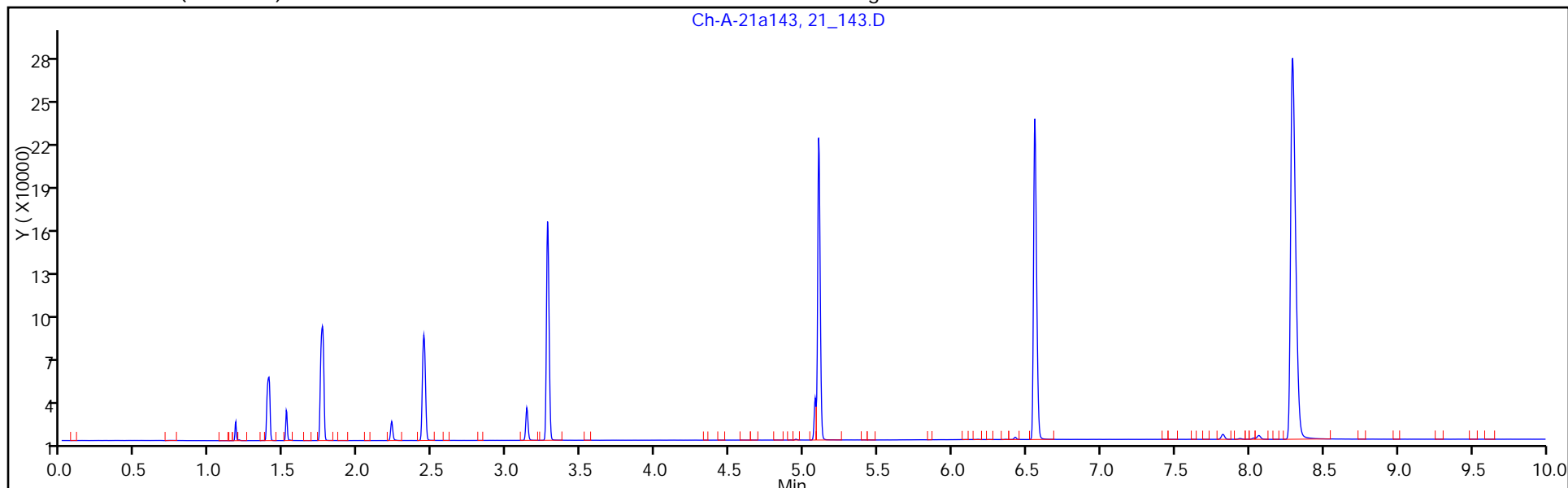
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

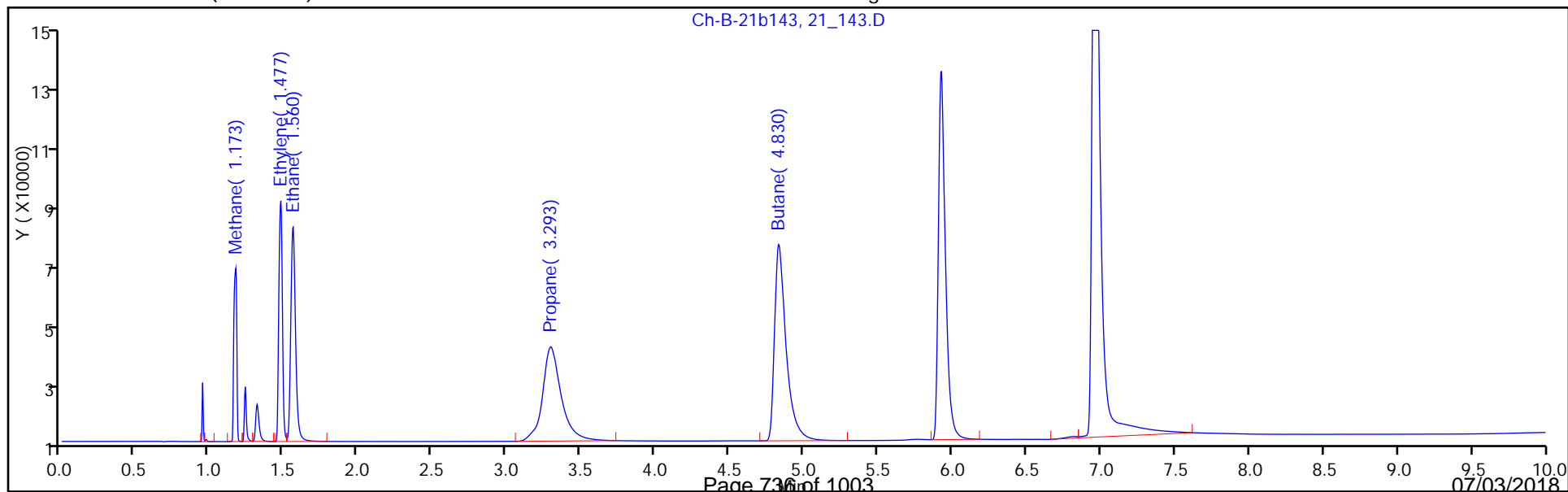
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	
2 Ethane							
1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	
3 Ethylene							
1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	
4 Propane							
1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	
5 Butane							
1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022 Amount Added: 200.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

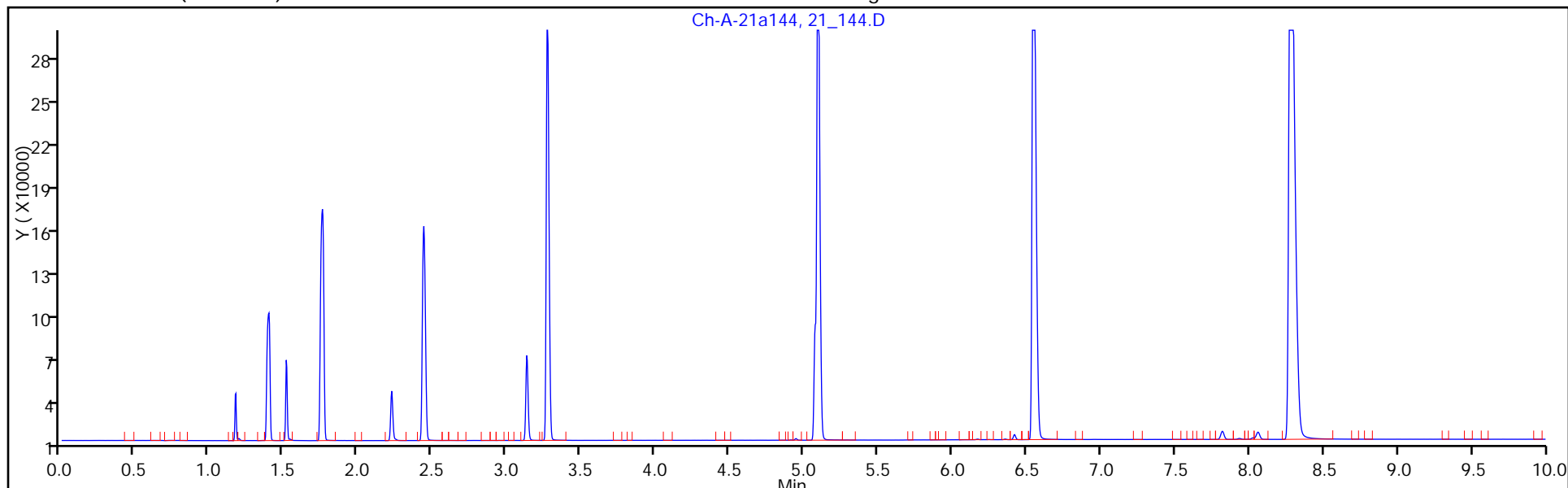
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

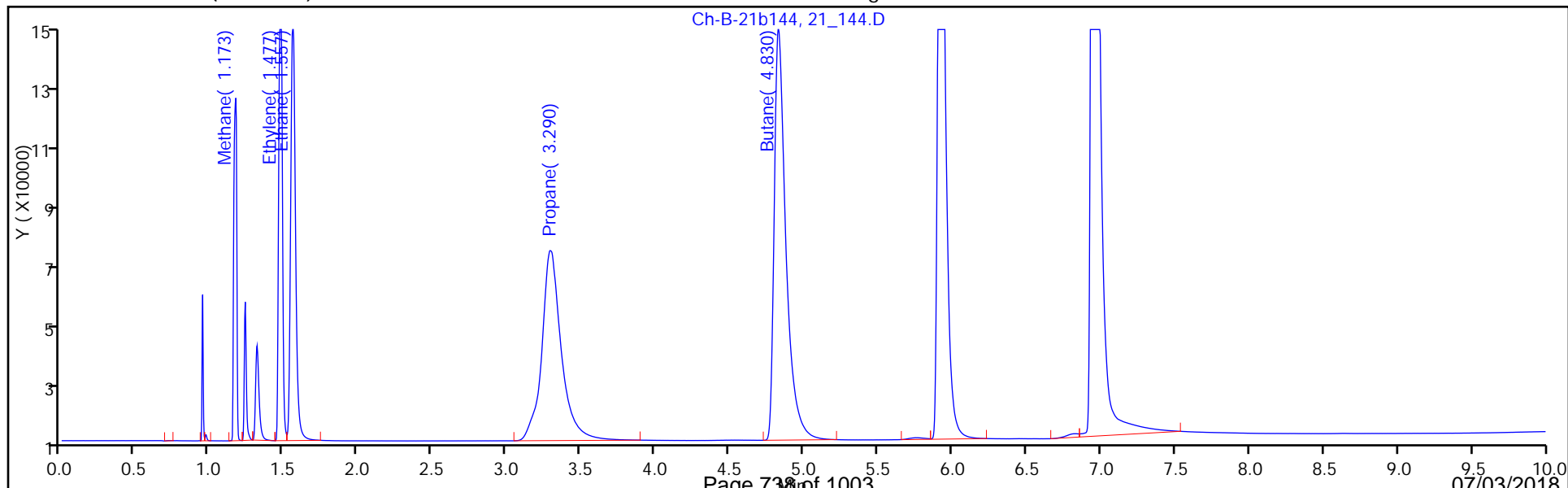
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	

2 Ethane

1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	

3 Ethylene

1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	

4 Propane

1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	

5 Butane

1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022 Amount Added: 400.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

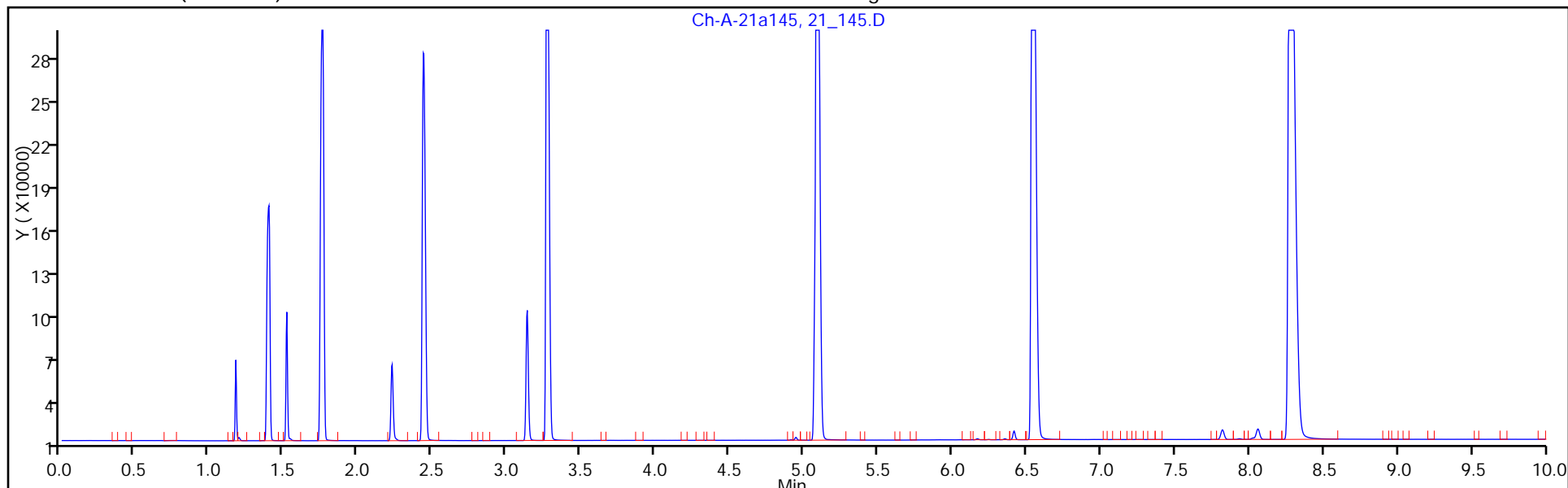
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

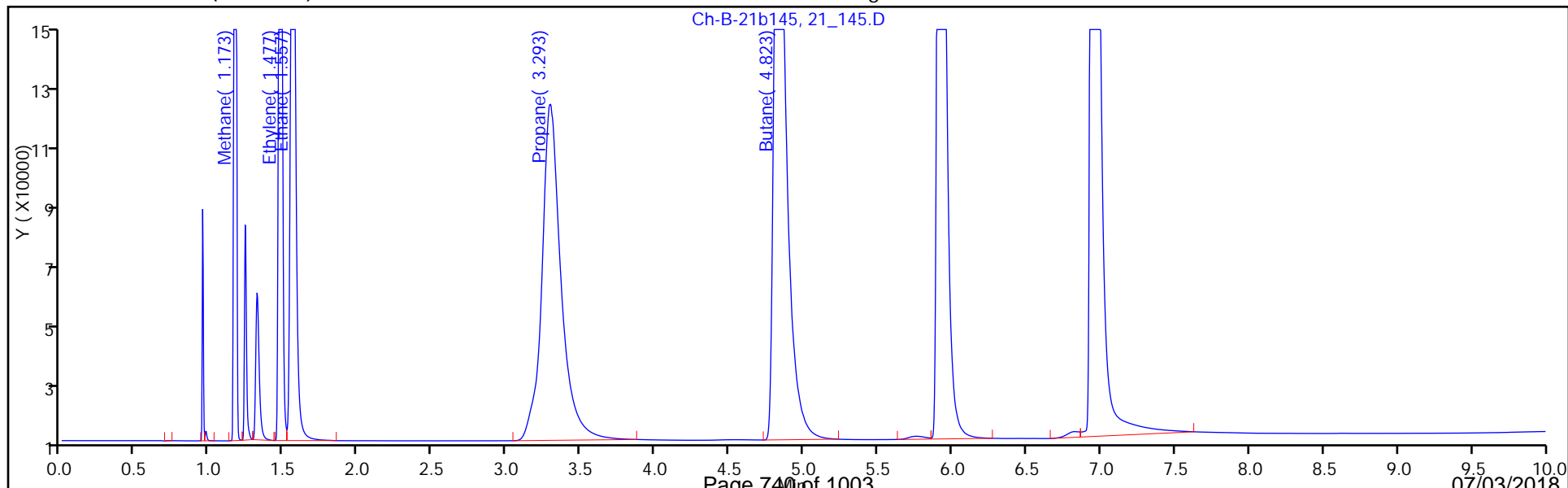
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	
2 Ethane							
1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	
3 Ethylene							
1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	
4 Propane							
1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	
5 Butane							
1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022 Amount Added: 600.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

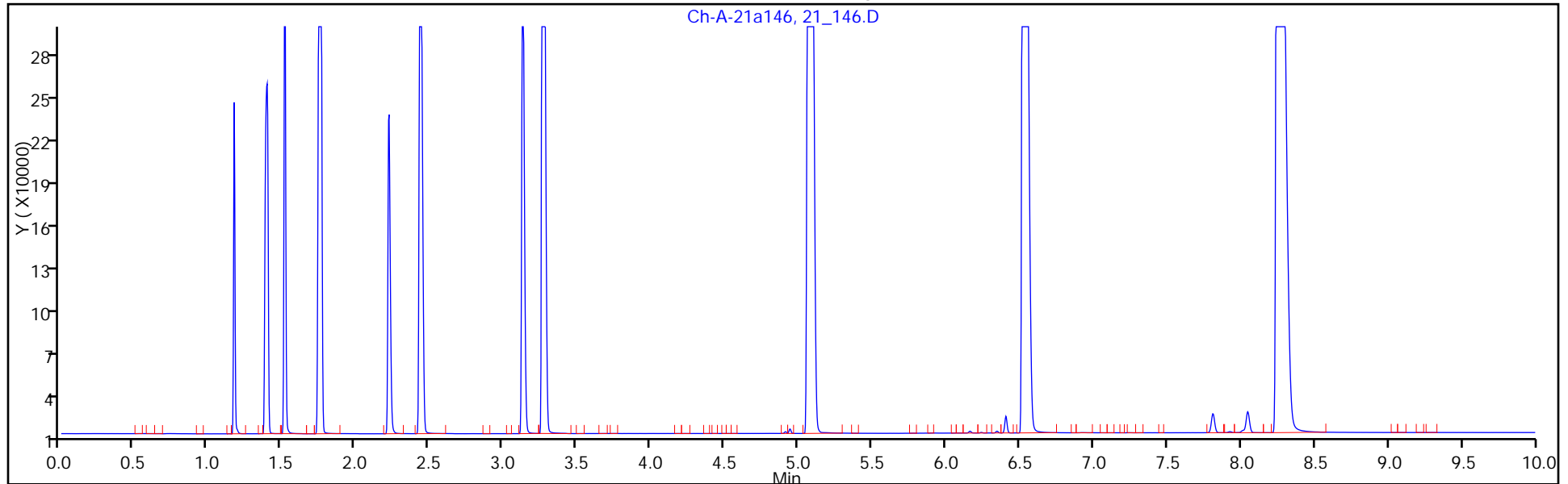
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

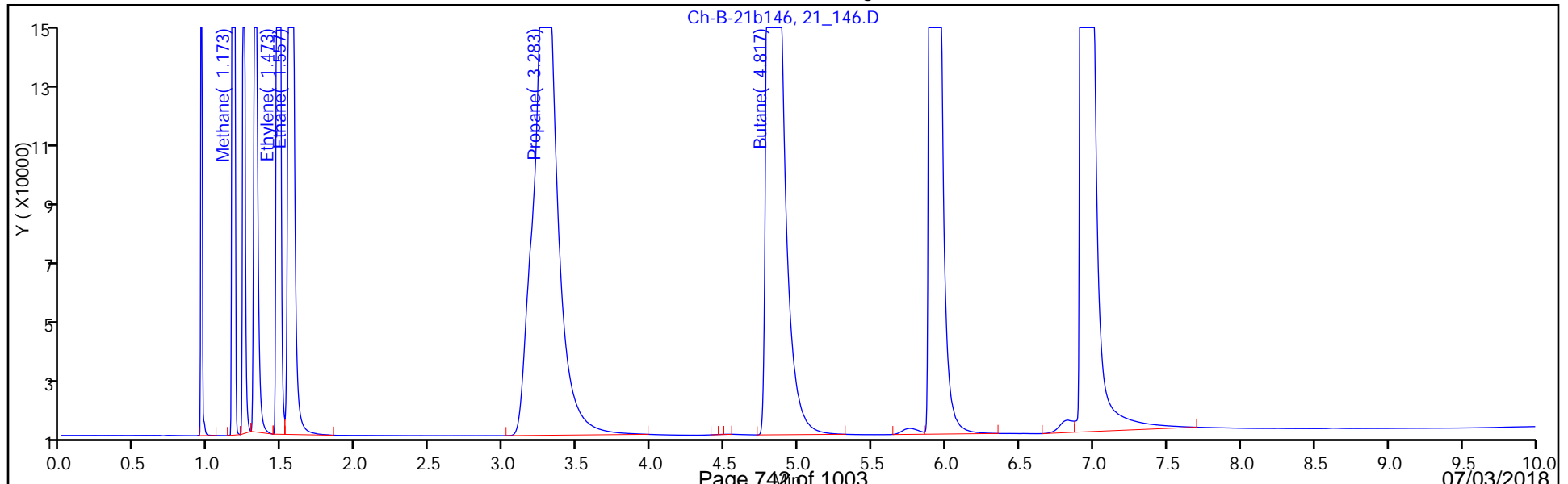
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	441234	310.8	306.7	M
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							
1	1.757	1.757	0.000	868187	582.7	563.1	
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							
1	2.433	2.440	-0.007	737510	543.9	523.5	
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 800.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

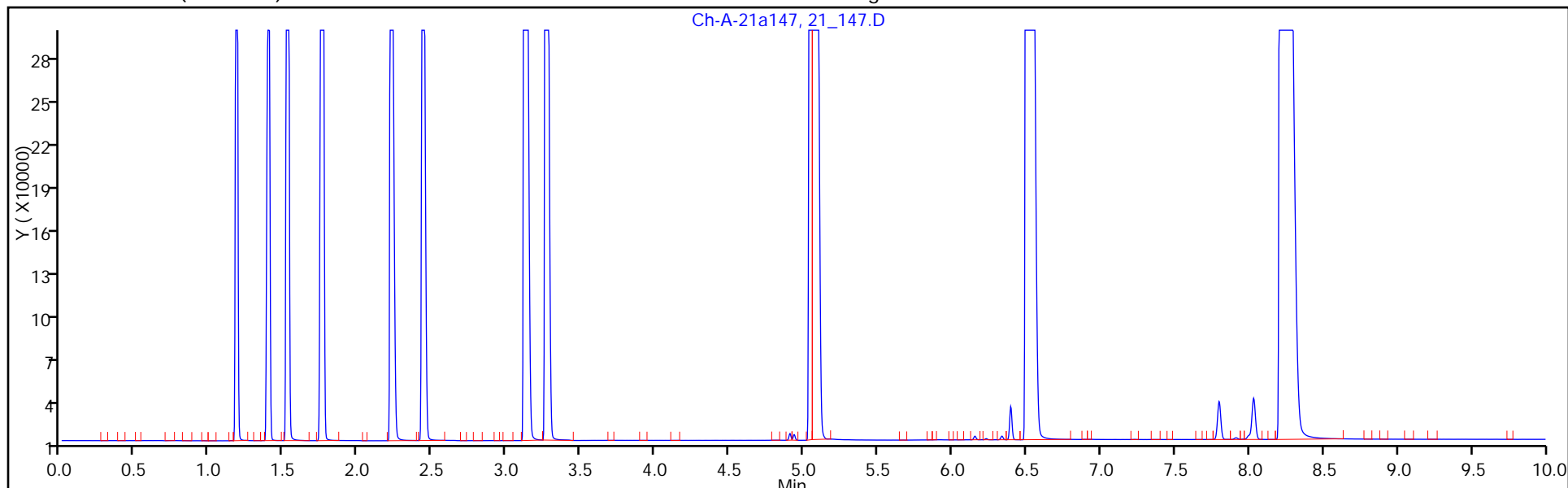
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

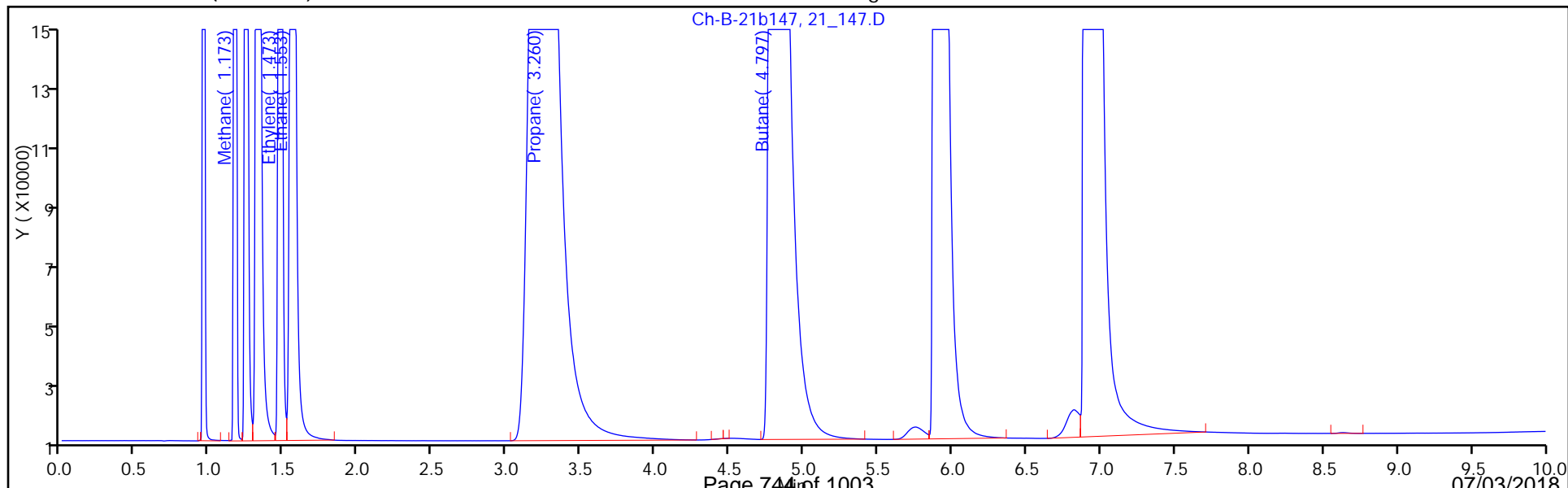
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	
2 Ethane							
1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	
3 Ethylene							
1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	
4 Propane							
1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M
5 Butane							
1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 1000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

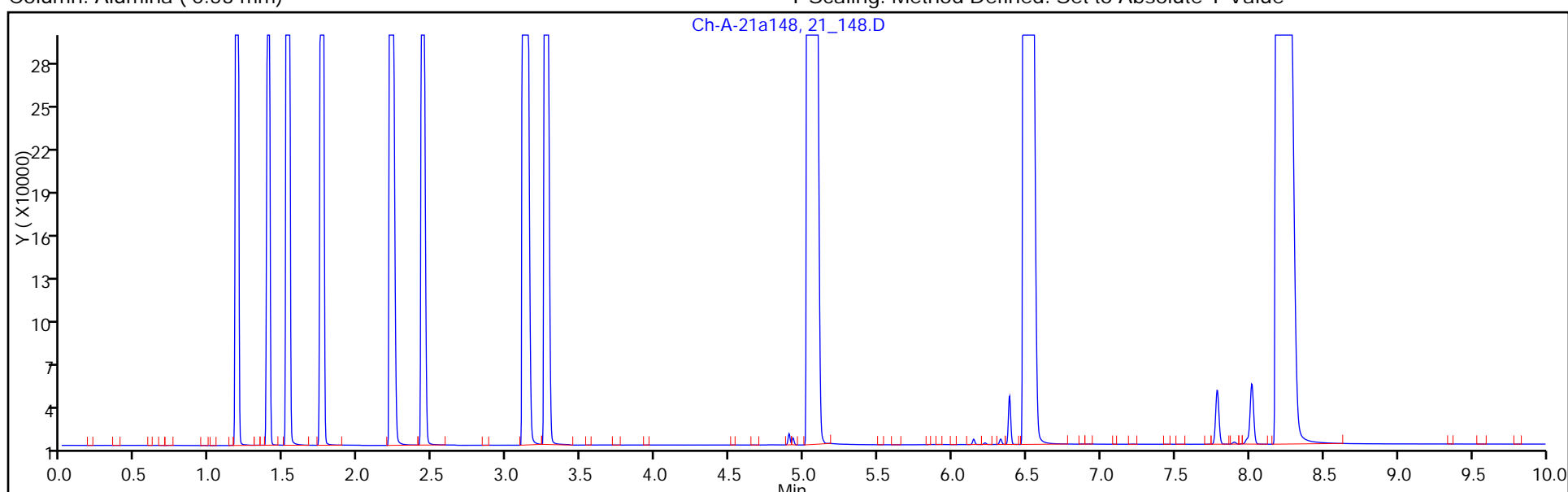
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

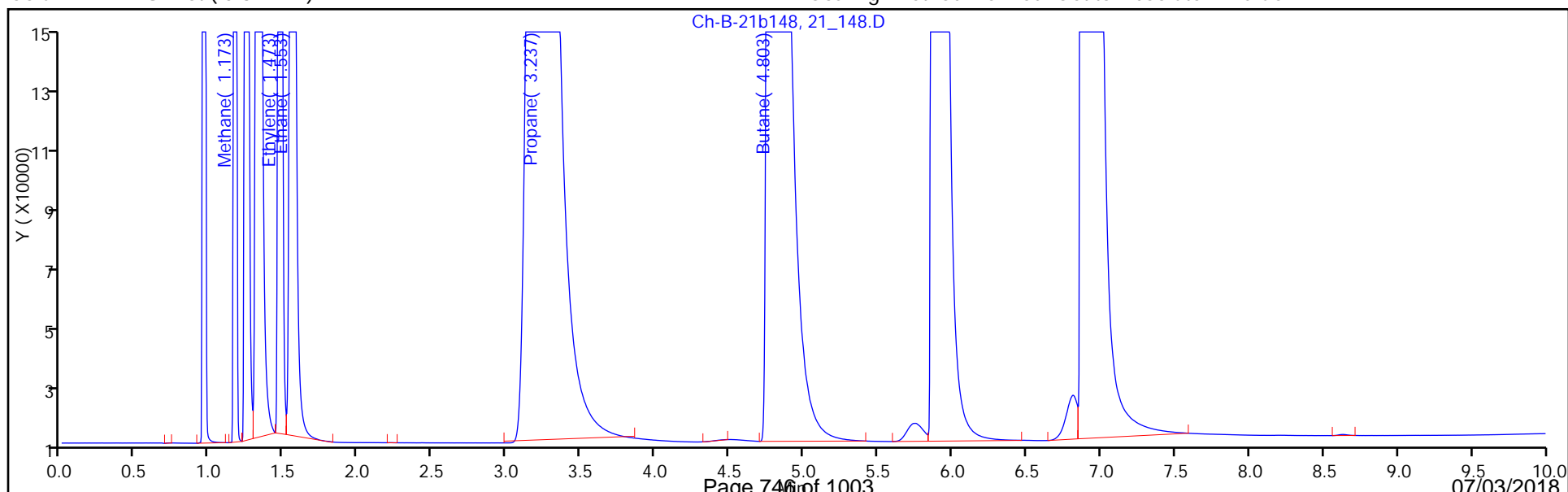
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

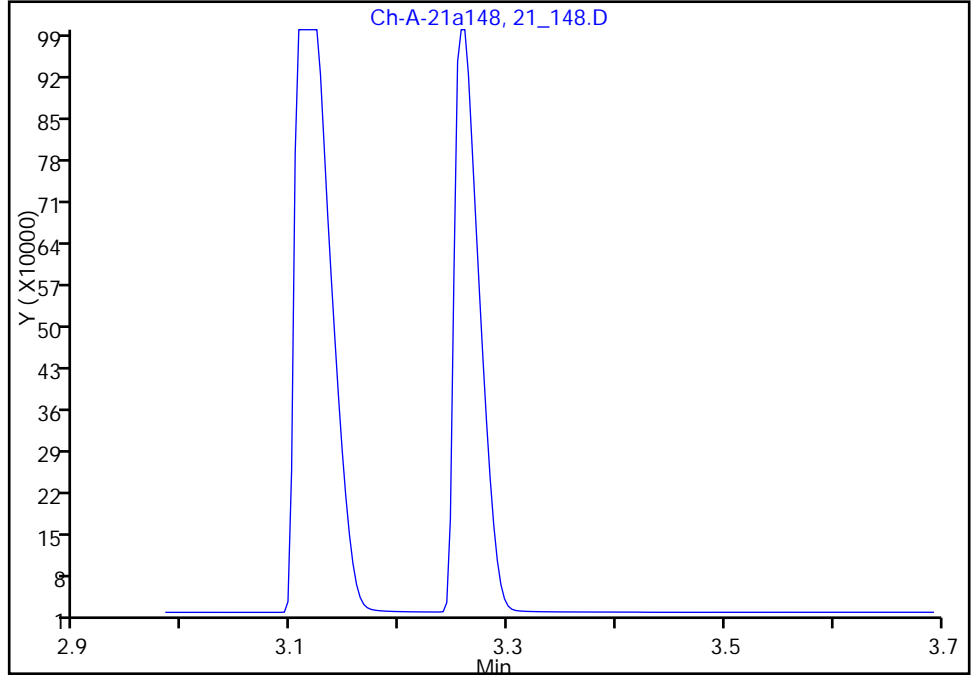
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

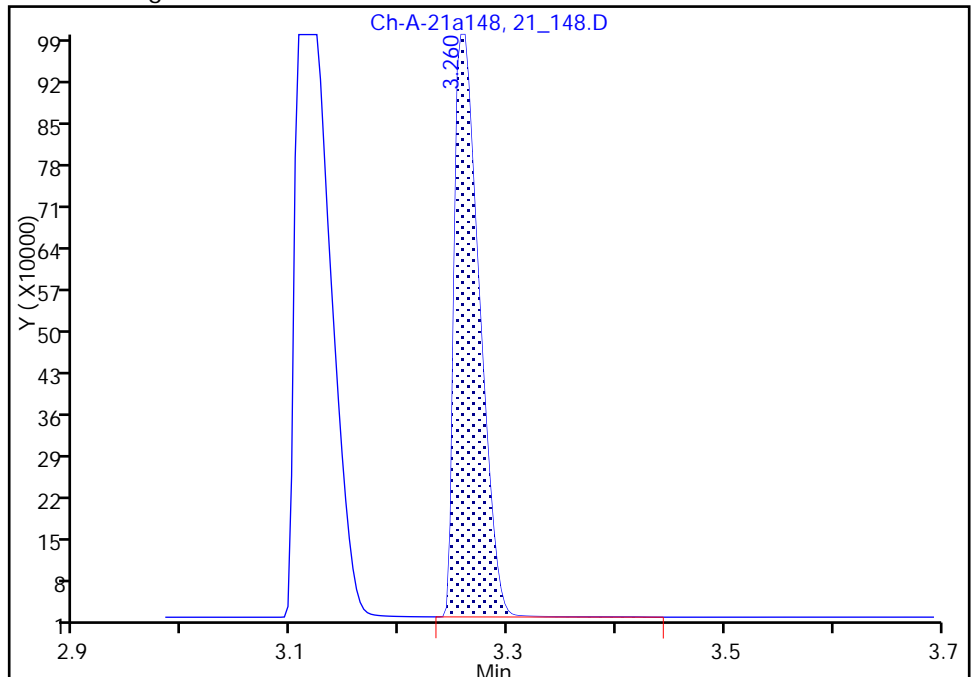
Not Detected
Expected RT: 3.27

Processing Integration Results



RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l

Manual Integration Results



Reviewer: gentnert, 12-Sep-2017 11:10:42
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401576/2 Calibration Date: 02/27/2018 06:52
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_06_266.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1839		16.7	15.5	7.2	15.0
Ethane	Lin1		1869		30.5	29.1	4.6	15.0
Ethene	Lin1		1642		27.2	27.2	0.1	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401576/2 Calibration Date: 02/27/2018 06:52
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_06_266.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.42	2.37	2.47

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_266.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Feb-2018 06:52:42 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

First Level Reviewer: gentnert Date: 27-Feb-2018 07:26:39

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28576	15.5	16.7	
2	1.173	1.173	0.000	38010	15.5	17.2	
2 Ethane							
1	1.753	1.753	0.000	54445	29.1	30.5	
2	1.553	1.553	0.000	71420	29.1	30.9	
3 Ethylene							
1	2.420	2.420	0.000	44662	27.2	27.2	
2	1.470	1.470	0.000	57830	27.2	27.6	
4 Propane							
1	3.257	3.257	0.000	83354	42.7	44.4	
2	3.277	3.277	0.000	118097	42.7	43.8	
5 Butane							
1	5.080	5.080	0.000	112971	55.8	55.8	a
2	4.813	4.813	0.000	163570	55.8	60.4	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_266.D

Injection Date: 27-Feb-2018 06:52:42

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

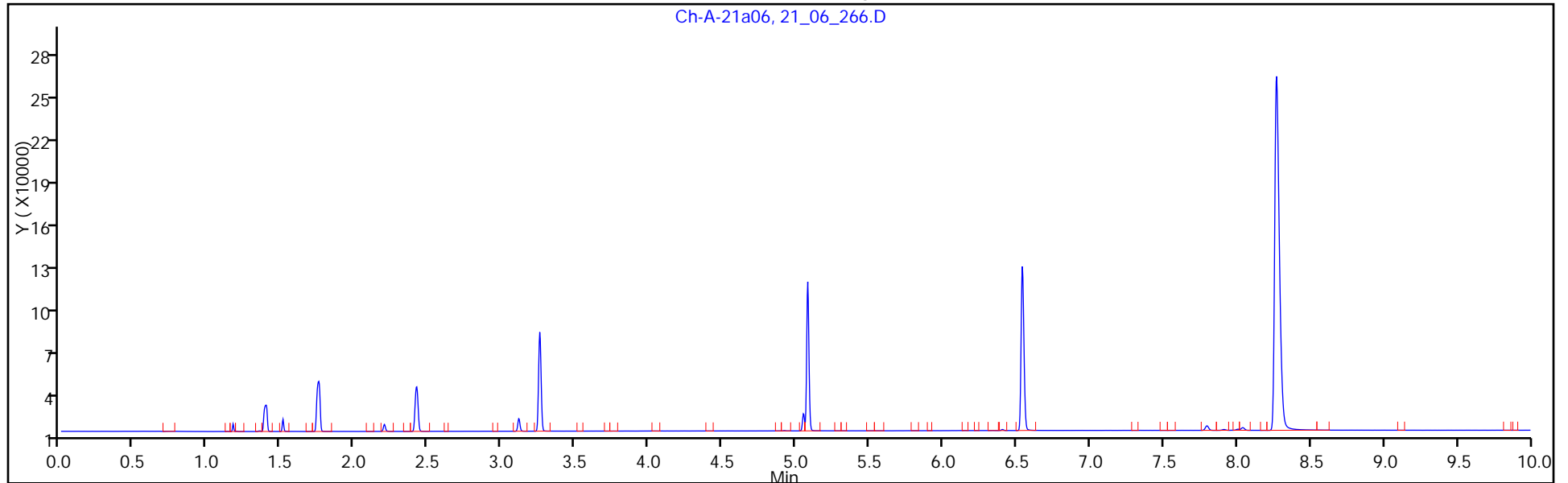
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

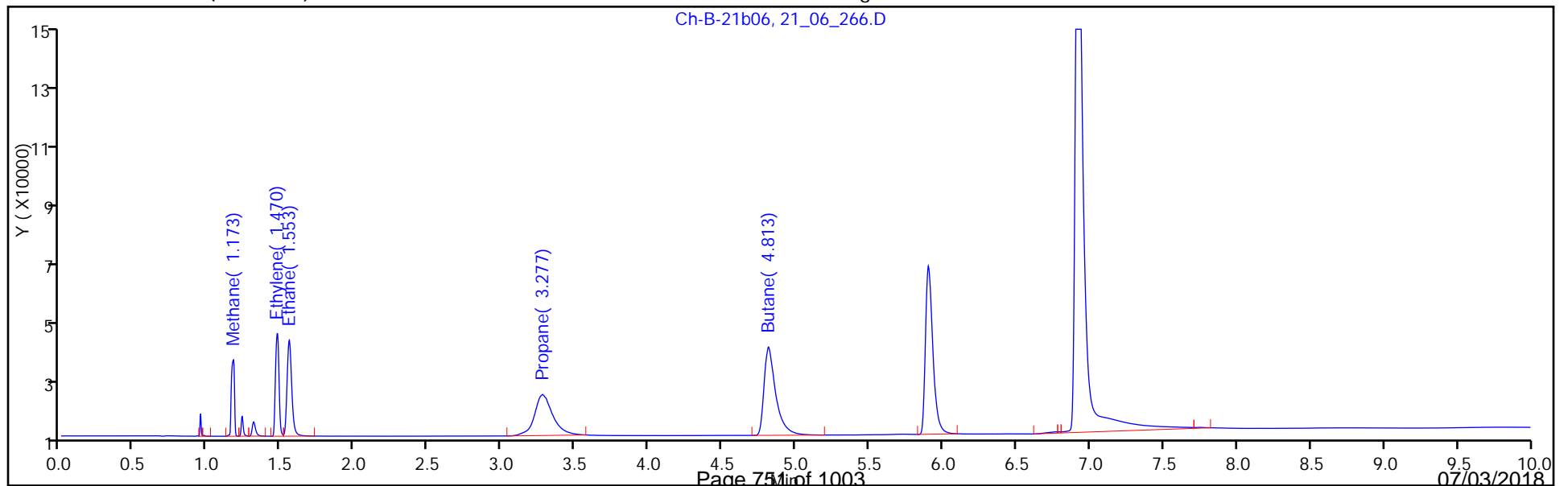
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401576/17 Calibration Date: 02/27/2018 12:04
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_06_281.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1849		16.8	15.5	7.9	15.0
Ethane	Lin1		1862		30.4	29.1	4.2	15.0
Ethene	Lin1		1653		27.4	27.2	0.8	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: CCV 480-401576/17 Calibration Date: 02/27/2018 12:04
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_06_281.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.76	1.70	1.80
Ethene	2.45	2.37	2.47

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_281.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Feb-2018 12:04:36 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:17:00 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

First Level Reviewer: gentnert Date: 27-Feb-2018 12:43:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28731	15.5	16.8	
2	1.173	1.173	0.000	38203	15.5	17.3	
2 Ethane							
1	1.757	1.753	0.004	54258	29.1	30.4	
2	1.553	1.553	0.000	71235	29.1	30.8	
3 Ethylene							
1	2.450	2.420	0.030	44942	27.2	27.4	
2	1.473	1.470	0.003	58648	27.2	28.1	
4 Propane							
1	3.283	3.257	0.026	82462	42.7	43.9	
2	3.273	3.277	-0.004	121326	42.7	45.1	
5 Butane							
1	5.110	5.080	0.030	110331	55.8	54.3	a
2	4.817	4.813	0.004	159557	55.8	58.8	a

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_281.D

Injection Date: 27-Feb-2018 12:04:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

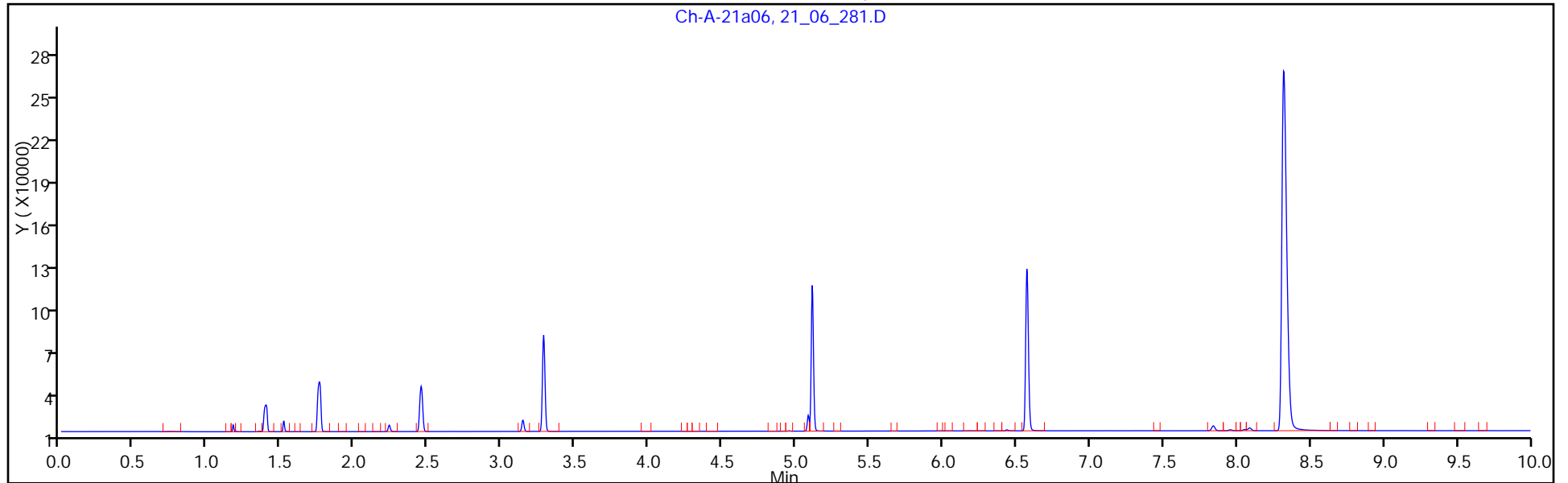
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

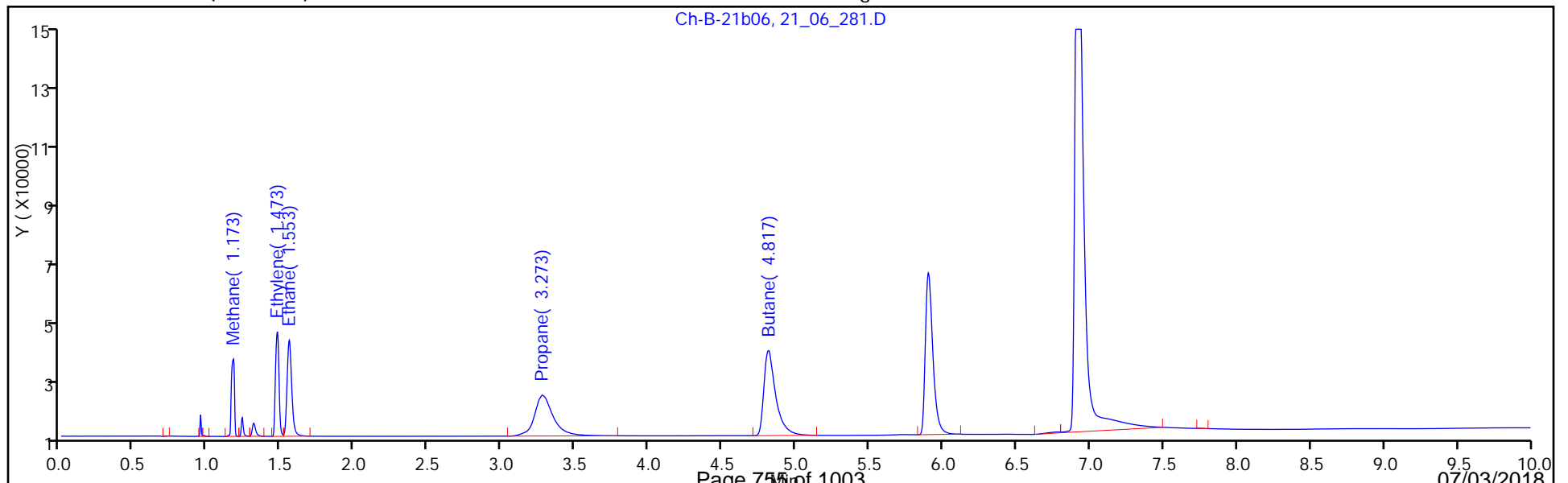
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-401576/3
 Matrix: Water Lab File ID: 21_06_267.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 02/27/2018 07:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_267.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Feb-2018 07:24:59 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.397	1.393	0.004	837		-2.83	
2	1.173	1.173	0.000	1350		-3.57	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_267.D

Injection Date: 27-Feb-2018 07:24:59

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

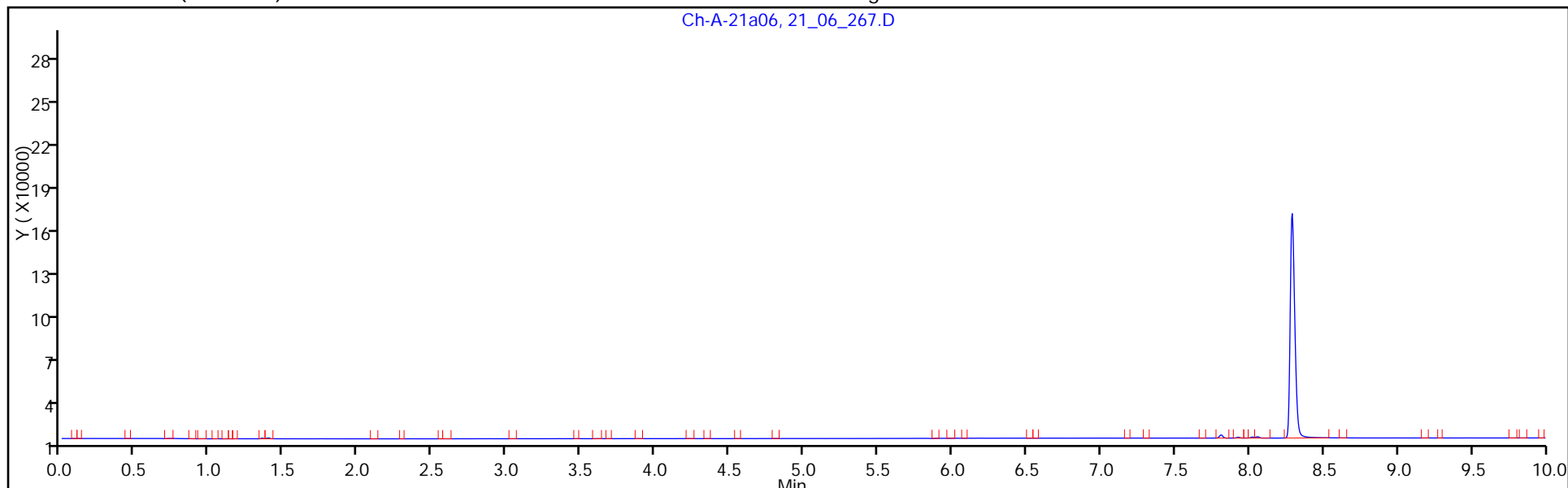
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

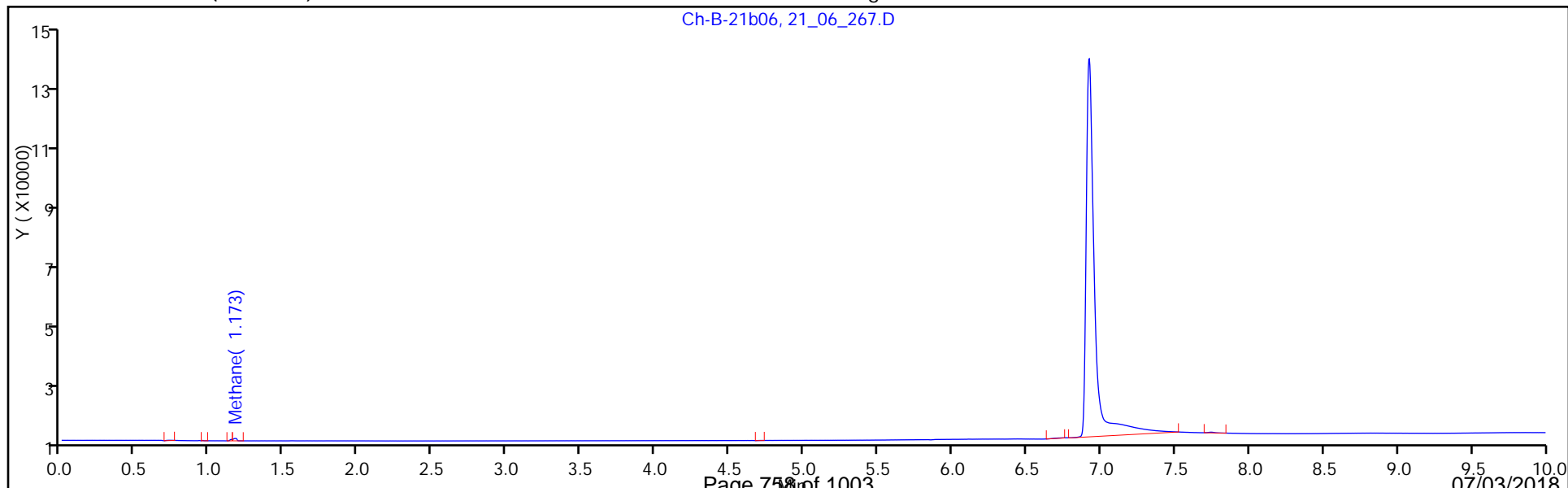
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-401576/4
 Matrix: Water Lab File ID: 21_06_268.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 07:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	16.5		7.5	1.5
74-85-1	Ethene	14.8		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_268.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Feb-2018 07:42:33 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

First Level Reviewer: gentnert Date: 27-Feb-2018 08:13:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.393	0.004	17616	7.77	8.96	
2	1.173	1.173	0.000	23818	7.77	9.18	
2 Ethane							
1	1.753	1.753	0.000	33108	14.6	16.5	
2	1.553	1.553	0.000	43829	14.6	16.6	
3 Ethylene							
1	2.423	2.420	0.003	27327	13.6	14.8	
2	1.473	1.470	0.003	35834	13.6	14.8	
4 Propane							
1	3.263	3.257	0.006	50984	21.4	24.6	
2	3.273	3.277	-0.004	72766	21.4	25.1	
5 Butane							
1	5.093	5.080	0.013	68536	27.9	31.9	
2	4.813	4.813	0.000	101396	27.9	34.3	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_268.D

Injection Date: 27-Feb-2018 07:42:33

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

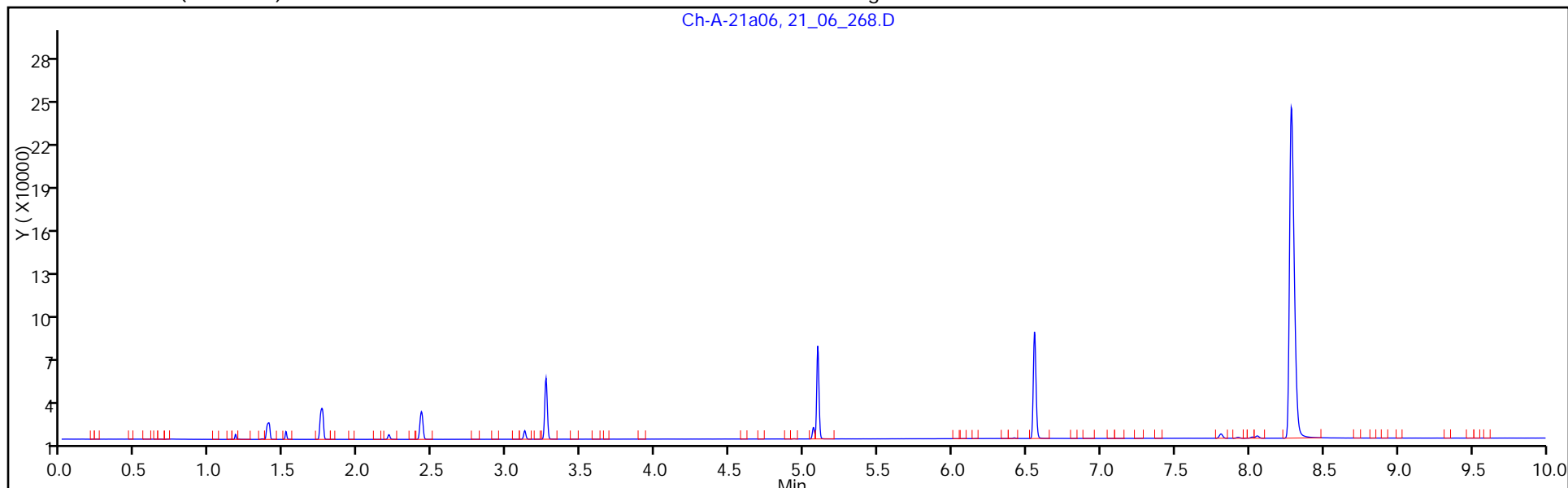
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

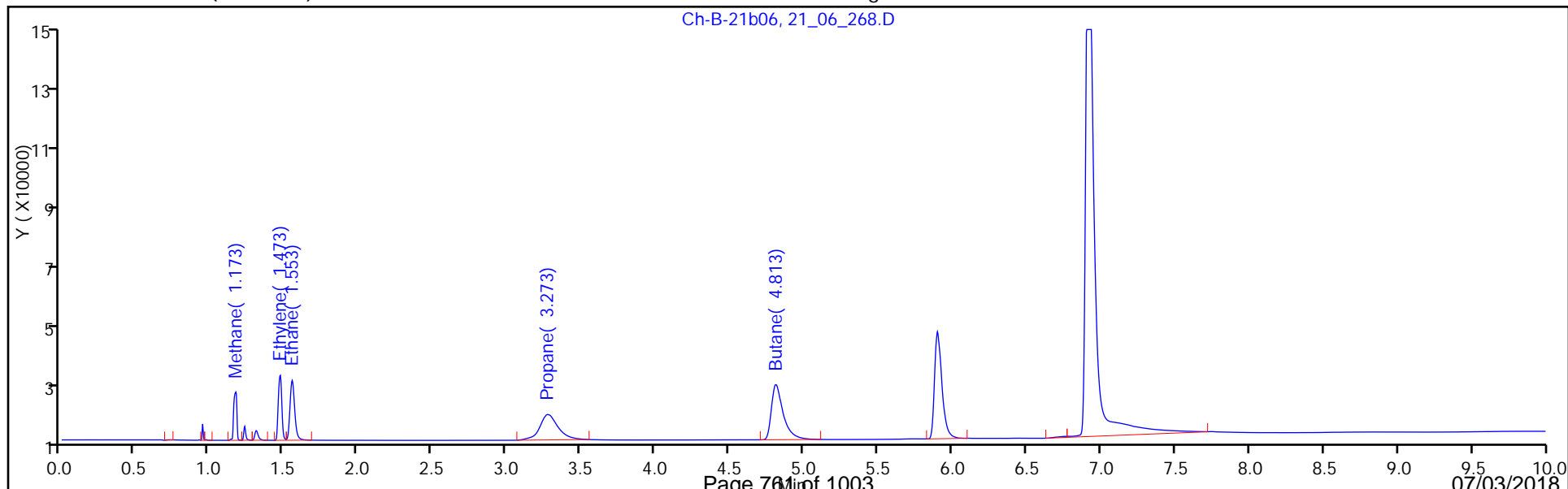
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-401576/5
 Matrix: Water Lab File ID: 21_06_269.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 08:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	16.3		7.5	1.5
74-85-1	Ethene	14.5		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_269.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-Feb-2018 08:00:03 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: #: 001
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 28-Feb-2018 06:16:28 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK013

First Level Reviewer: gentnert Date: 27-Feb-2018 08:22:07

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.397	1.393	0.004	17548	7.77	8.91	
2	1.173	1.173	0.000	23745	7.77	9.14	

2 Ethane

1	1.753	1.753	0.000	32783	14.6	16.3	
2	1.553	1.553	0.000	43351	14.6	16.3	

3 Ethylene

1	2.427	2.420	0.007	26868	13.6	14.5	
2	1.473	1.470	0.003	35254	13.6	14.5	

4 Propane

1	3.267	3.257	0.010	50467	21.4	24.3	
2	3.273	3.277	-0.004	78142	21.4	27.4	

5 Butane

1	5.097	5.080	0.017	68069	27.9	31.7	a
2	4.807	4.813	-0.006	107117	27.9	36.7	a

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180227-69511.b\21_06_269.D

Injection Date: 27-Feb-2018 08:00:03

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

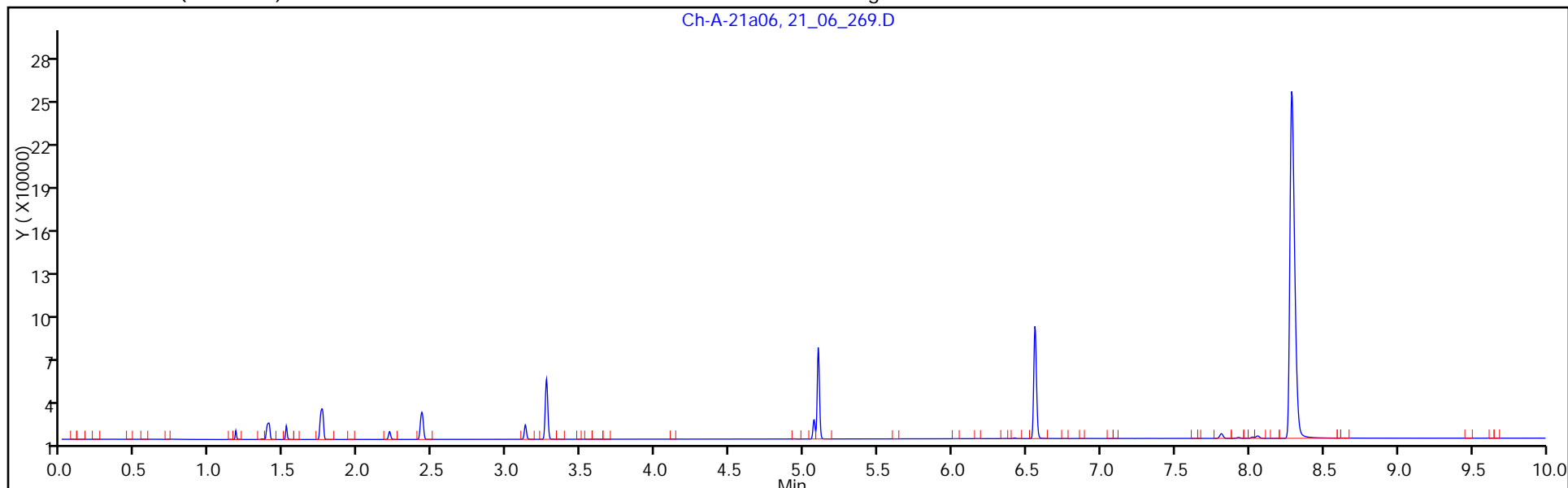
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

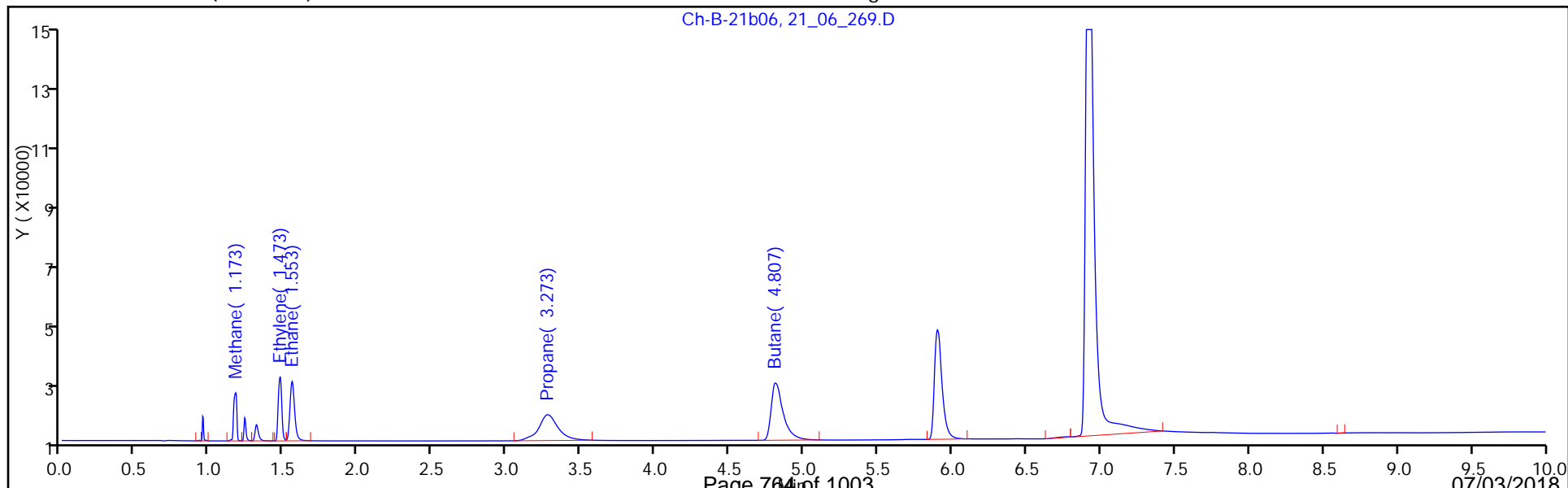
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5890-21 Start Date: 09/12/2017 08:34

Analysis Batch Number: 376268 End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-131737-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 02/27/2018 06:52Analysis Batch Number: 401576End Date: 02/27/2018 14:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-401576/2		02/27/2018 06:52	1	21_06_266.D	Alumina 0.53 (mm)
CCV 480-401576/2		02/27/2018 06:52	1		RTX-U Plot 0.32 (mm)
MB 480-401576/3		02/27/2018 07:24	1	21_06_267.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 07:24	1		RTX-U Plot 0.32 (mm)
LCS 480-401576/4		02/27/2018 07:42	1	21_06_268.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 07:42	1		RTX-U Plot 0.32 (mm)
LCSD 480-401576/5		02/27/2018 08:00	1	21_06_269.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 08:00	1		RTX-U Plot 0.32 (mm)
480-131737-1		02/27/2018 09:09	44	21_06_271.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 09:09	44		RTX-U Plot 0.32 (mm)
480-131737-2		02/27/2018 09:27	44	21_06_272.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 09:27	44		RTX-U Plot 0.32 (mm)
480-131737-3		02/27/2018 09:44	44	21_06_273.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 09:44	44		RTX-U Plot 0.32 (mm)
480-131737-4		02/27/2018 10:02	44	21_06_274.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 10:02	44		RTX-U Plot 0.32 (mm)
480-131737-5		02/27/2018 10:19	44	21_06_275.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 10:19	44		RTX-U Plot 0.32 (mm)
480-131737-6		02/27/2018 10:37	44	21_06_276.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 10:37	44		RTX-U Plot 0.32 (mm)
480-131737-8		02/27/2018 10:54	44	21_06_277.D	Alumina 0.53 (mm)
ZZZZZ		02/27/2018 10:54	44		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 11:29	1		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 11:29	1		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 11:47	22		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 11:47	22		RTX-U Plot 0.32 (mm)
CCV 480-401576/17		02/27/2018 12:04	1	21_06_281.D	Alumina 0.53 (mm)
CCV 480-401576/17		02/27/2018 12:04	1		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 12:35	44		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 12:35	44		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 12:53	1		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 12:53	1		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 13:10	1		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 13:10	1		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 13:28	1		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 13:28	1		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 13:45	1		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 13:45	1		RTX-U Plot 0.32 (mm)
ZZZZZ		02/27/2018 14:03	1		Alumina 0.53 (mm)
ZZZZZ		02/27/2018 14:03	1		RTX-U Plot 0.32 (mm)
CCV 480-401576/24		02/27/2018 14:20	1		Alumina 0.53 (mm)
CCV 480-401576/24		02/27/2018 14:20	1		RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1

SDG No.: _____

Project: Former Emerson Street Landfill Project

Client Sample ID	Lab Sample ID
<u>ML-2S</u>	<u>480-131737-1</u>
<u>ML-2I</u>	<u>480-131737-2</u>
<u>ML-2D</u>	<u>480-131737-3</u>
<u>ML-7I</u>	<u>480-131737-4</u>
<u>ML-7D</u>	<u>480-131737-5</u>
<u>LBA-SBW-15</u>	<u>480-131737-6</u>
<u>LBA-SBW-16</u>	<u>480-131737-8</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-2S

Lab Sample ID: 480-131737-1

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 13:05

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	390	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	18.2	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2I

Lab Sample ID: 480-131737-2

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 15:10

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	0.031	0.050	0.020	mg/L as N	J		1	353.2
16887-00-6	Chloride	425	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	11.7	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-2D

Lab Sample ID: 480-131737-3

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 16:10

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	419	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	3.6	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7I

Lab Sample ID: 480-131737-4

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 09:10

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	344	2.5	1.4	mg/L			5	9056A
14808-79-8	Sulfate	ND	10.0	1.7	mg/L			5	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7D

Lab Sample ID: 480-131737-5

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 10:30

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	0.038	0.050	0.020	mg/L as N	J	H	1	353.2
16887-00-6	Chloride	428	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: LBA-SBW-15

Lab Sample ID: 480-131737-6

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 11:40

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	2.0	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	738	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	90.6	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.: _____

Matrix: Water

Date Sampled: 02/21/2018 14:15

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	344	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	4.1	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 02/26/2018
 Reporting Units: mg/L Analytical Batch No.: 401560

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	12:45	Sulfide	10.00	9.60	104	90-110		Sulfide CCV_00194
2	CCB	12:45	Sulfide	ND					
13	CCV	12:45	Sulfide	9.60	9.60	100	90-110		Sulfide CCV_00194
14	CCB	12:45	Sulfide	ND					
19	CCV	12:45	Sulfide	9.20	9.60	96	90-110		Sulfide CCV_00194
20	CCB	12:45	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Analyst: RJS Batch Start Date: 02/27/2018
 Reporting Units: mg/L Analytical Batch No.: 401728

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	21:58	Chloride	50.12	50.0	100	90-110	1	IC_ANION_LCS__0019
			Sulfate	50.65	50.0	101	90-110		IC_ANION_LCS__0019
26	CCB	22:06	Chloride	ND				1	
			Sulfate	ND					
37	CCV	23:36	Chloride	50.26	50.0	101	90-110	1	IC_ANION_LCS__0019
			Sulfate	50.80	50.0	102	90-110		IC_ANION_LCS__0019
38	CCB	23:44	Chloride	ND				1	
			Sulfate	ND					
49	CCV	01:14	Chloride	50.30	50.0	101	90-110	1	IC_ANION_LCS__0019
			Sulfate	50.62	50.0	101	90-110		IC_ANION_LCS__0019
50	CCB	01:22	Chloride	ND				1	
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Analyst: RJS Batch Start Date: 02/28/2018
 Reporting Units: mg/L Analytical Batch No.: 401749

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	10:55	Chloride	49.09	50.0	98	90-110		IC_ANION_LCS__0019 1
			Sulfate	51.05	50.0	102	90-110		IC_ANION_LCS__0019 1
3	CCB	11:03	Chloride	ND					
			Sulfate	ND					
14	CCV	12:33	Chloride	49.41	50.0	99	90-110		IC_ANION_LCS__0019 1
			Sulfate	50.78	50.0	102	90-110		IC_ANION_LCS__0019 1
15	CCB	12:41	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Analyst: LED Batch Start Date: 03/06/2018
 Reporting Units: mg/L Analytical Batch No.: 402716

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:05	Ferrous Iron	1.80	2.00	90	90-110		FE 200ppm ICV 00007
2	CCB	13:05	Ferrous Iron	ND					
13	CCV	13:05	Ferrous Iron	1.89	2.00	95	90-110		FE 200ppm ICV 00007
14	CCB	13:05	Ferrous Iron	ND					
16	CCV	13:05	Ferrous Iron	1.93	2.00	97	90-110		FE 200ppm ICV 00007
17	CCB	13:05	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 401728 Date: 02/27/2018 22:23							
9056A	MB 480-401728/28	Chloride	ND		mg/L	0.50	1
9056A	MB 480-401728/28	Sulfate	ND		mg/L	2.0	1
Batch ID: 401749 Date: 02/28/2018 11:20							
9056A	MB 480-401749/5	Chloride	ND		mg/L	0.50	1
9056A	MB 480-401749/5	Sulfate	ND		mg/L	2.0	1
Batch ID: 402716 Date: 03/06/2018 13:05							
SM 3500 FE D	MB 480-402716/3	Ferrous Iron	ND		mg/L	0.10	1
Batch ID: 401560 Date: 02/26/2018 12:45							
SM 4500 S2 F	MB 480-401560/3	Sulfide	ND		mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 401728 Date: 02/28/2018 01:05											
9056A	480-131737-3	Chloride	419		mg/L						
9056A	480-131737-3	Chloride	894.3		mg/L	500	95	81-120			
		MS									
9056A	480-131737-3	Sulfate	3.6	J	mg/L						
9056A	480-131737-3	Sulfate	504.1		mg/L	500	100	80-120			
		MS									
Batch ID: 402716 Date: 03/06/2018 13:05											
SM 3500	480-131737-8	Ferrous Iron	ND		mg/L						HF
FE D											
SM 3500	480-131737-8	Ferrous Iron	0.778		mg/L	1.00	78	70-130			
FE D											
		MS									
Batch ID: 401560 Date: 02/26/2018 12:45											
SM 4500	480-131737-1	Sulfide	ND		mg/L						
S2 F											
SM 4500	480-131737-1	Sulfide	2.80		mg/L	2.40	117	40-150			
S2 F											
		MS									

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 402716 Date: 03/06/2018 13:05								
SM 3500 FE D	LBA-SBW-16	480-131737-8	Ferrous Iron	ND	mg/L			
SM 3500 FE D	LBA-SBW-16	480-131737-8 DU	Ferrous Iron	ND	mg/L	NC	20	
Batch ID: 401560 Date: 02/26/2018 12:45								
SM 4500 S2 F	LBA-SBW-15	480-131737-6	Sulfide	2.0	mg/L			
SM 4500 S2 F	LBA-SBW-15	480-131737-6 DU	Sulfide	2.40	mg/L	18	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 401728 Date: 02/27/2018 22:14											
						LCS Source: IC_ANION_LCS__00191					
9056A	LCS 480-401728/27	Chloride	50.20		mg/L	50.0	100	90-110			
9056A	LCS 480-401728/27	Sulfate	50.70		mg/L	50.0	101	90-110			
Batch ID: 401749 Date: 02/28/2018 11:12											
						LCS Source: IC_ANION_LCS__00191					
9056A	LCS 480-401749/4	Chloride	49.20		mg/L	50.0	98	90-110			
9056A	LCS 480-401749/4	Sulfate	51.10		mg/L	50.0	102	90-110			
Batch ID: 402716 Date: 03/06/2018 13:05											
						LCS Source: FE 200ppm ICV_00007					
SM 3500 FE D	LCS 480-402716/4	Ferrous Iron	1.80		mg/L	2.00	90	90-110			
Batch ID: 401560 Date: 02/26/2018 12:45											
						LCS Source: Sulfide LCS_00195					
SM 4500 S2 F	LCS 480-401560/4	Sulfide	9.20		mg/L	9.00	102	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrite		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrite		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F MDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.67

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F XMDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		1	0.67

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT3
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-131737-1

SDG Number: _____

Matrix: Water

Instrument ID: IC-2

Method: 9056A

MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: IC-2
Method: 9056A XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-131737-1

SDG Number: _____

Matrix: Water

Instrument ID: Genysis Spec2

Method: SM 3500 FE D

MDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.075

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-131737-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 02/23/2018 13:19 End Date: 02/23/2018 17:48

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 2 - N															
ZZZZZZ			13:19																
ZZZZZZ			13:20																
ZZZZZZ			13:22																
ZZZZZZ			13:23																
ZZZZZZ			13:24																
480-131737-2	1	T	15:09	X															
480-131737-3	1	T	15:10	X															
480-131737-1	1	T	17:48	X															
480-131737-4	1	T	17:48	X															
480-131737-5	1	T	17:48	X															
480-131737-6	1	T	17:48	X															
480-131737-8	1	T	17:48	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 4500 S2 F

Start Date: 02/26/2018 12:45 End Date: 02/26/2018 12:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S 2															
CCV 480-401560/1	1		12:45	X															
CCB 480-401560/2	1		12:45	X															
MB 480-401560/3	1	T	12:45	X															
LCS 480-401560/4	1	T	12:45	X															
ZZZZZ			12:45																
ZZZZZ			12:45																
ZZZZZ			12:45																
480-131737-1	1	T	12:45	X															
480-131737-1 MS	1	T	12:45	X															
480-131737-2	1	T	12:45	X															
480-131737-3	1	T	12:45	X															
480-131737-4	1	T	12:45	X															
CCV 480-401560/13	1		12:45	X															
CCB 480-401560/14	1		12:45	X															
480-131737-5	1	T	12:45	X															
480-131737-6	1	T	12:45	X															
480-131737-6 DU	1	T	12:45	X															
480-131737-8	1	T	12:45	X															
CCV 480-401560/19	1		12:45	X															
CCB 480-401560/20	1		12:45	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 02/23/2018 13:19 End Date: 02/23/2018 17:50

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
ZZZZZZ			13:19																
ZZZZZZ			13:20																
ZZZZZZ			13:22																
ZZZZZZ			13:23																
ZZZZZZ			13:24																
480-131737-2	1	T	15:09	X															
480-131737-3	1	T	15:10	X															
ZZZZZZ			17:00																
ZZZZZZ			17:03																
ZZZZZZ			17:04																
ZZZZZZ			17:05																
ZZZZZZ			17:06																
ZZZZZZ			17:11																
ZZZZZZ			17:13																
ZZZZZZ			17:14																
ZZZZZZ			17:15																
ZZZZZZ			17:17																
ZZZZZZ			17:18																
480-131737-1	1	T	17:50	X															
480-131737-4	1	T	17:50	X															
480-131737-5	1	T	17:50	X															
480-131737-6	1	T	17:50	X															
480-131737-8	1	T	17:50	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: IC-2 Method: 9056A

Start Date: 02/27/2018 18:43 End Date: 02/28/2018 01:22

Lab Sample ID	D / F	Type	Time	Analytes															
				CL -	SO 4														
CCV 480-401728/1			18:43																
CCB 480-401728/2			18:51																
ZZZZZZ			18:59																
ZZZZZZ			19:07																
CCV 480-401728/13			20:21																
CCB 480-401728/14			20:29																
CCV 480-401728/25	1		21:58	X	X														
CCB 480-401728/26	1		22:06	X	X														
LCS 480-401728/27	1	T	22:14	X	X														
MB 480-401728/28	1	T	22:23	X	X														
CCV 480-401728/37	1		23:36	X	X														
CCB 480-401728/38	1		23:44	X	X														
480-131737-1	10	T	00:41	X	X														
480-131737-2	10	T	00:49	X	X														
480-131737-3	10	T	00:57	X	X														
480-131737-3 MS	10	T	01:05	X	X														
CCV 480-401728/49	1		01:14	X	X														
CCB 480-401728/50	1		01:22	X	X														

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: IC-2 Method: 9056A

Start Date: 02/28/2018 10:55 End Date: 02/28/2018 17:34

Lab Sample ID	D / F	T y p e	Time	Analytes																
				C L -	S O 4															
CCV 480-401749/2	1		10:55	X	X															
CCB 480-401749/3	1		11:03	X	X															
LCS 480-401749/4	1	T	11:12	X	X															
MB 480-401749/5	1	T	11:20	X	X															
480-131737-4	5	T	11:28	X	X															
480-131737-5	10	T	11:36	X	X															
480-131737-6	10	T	11:44	X	X															
480-131737-8	10	T	11:52	X	X															
ZZZZZ			12:09																	
ZZZZZ			12:17																	
ZZZZZ			12:25																	
CCV 480-401749/14	1		12:33	X	X															
CCB 480-401749/15	1		12:41	X	X															
CCV 480-401749/26			14:11																	
CCB 480-401749/27			14:19																	
ZZZZZ			14:27																	
ZZZZZ			14:35																	
CCV 480-401749/38			15:48																	
CCB 480-401749/39			15:57																	
CCV 480-401749/50			17:26																	
CCB 480-401749/51			17:34																	

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Instrument ID: Genysis Spec2 Method: SM 3500 FE D

Start Date: 03/06/2018 13:05 End Date: 03/06/2018 13:05

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e r r o n															
CCV 480-402716/1	1		13:05	X															
CCB 480-402716/2	1		13:05	X															
MB 480-402716/3	1	T	13:05	X															
LCS 480-402716/4	1	T	13:05	X															
480-131737-1	1	T	13:05	X															
480-131737-2	1	T	13:05	X															
480-131737-3	1	T	13:05	X															
480-131737-4	1	T	13:05	X															
480-131737-5	1	T	13:05	X															
480-131737-6	1	T	13:05	X															
480-131737-8	1	T	13:05	X															
480-131737-8 DU	1	T	13:05	X															
CCV 480-402716/13	1		13:05	X															
CCB 480-402716/14	1		13:05	X															
480-131737-8 MS	1	T	13:05	X															
CCV 480-402716/16	1		13:05	X															
CCB 480-402716/17	1		13:05	X															

Prep Types
T = Total/NA

401321 401326 401336 401337 401338

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions #

Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	3878175	Exp. 05/31/2018
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4234660	Exp. 03/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4496039	Exp. 02/28/2018
Nitrite Int STD(MS)	4496041	Exp. 02/28/2018
Nitrate 1.5ppm CCV/ICV/LCS	4500005	Exp. 02/24/2018
Nitrite 1.5ppm CCV/ICV/LCS	4500006	Exp. 02/24/2018
Ammonium Chloride Buffer	4498629	Exp. 03/22/2018
Color Reagent	4499628	Exp. 03/23/2018
1:4 Ammonium Hydroxide	4461272	Exp. 07/19/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L -1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 2/23/18

NO₂ + pres. 401321

Original Run Filename: OM_2-23-2018_01-13-02PM.OMN Created: 2/23/2018 1:13:02 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_2-23-2018_01-13-02PM.OMN Last Modified: 2/23/2018 3:49:27 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

DB
2/23/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.36	4.27	0.319	2/23/2018@1:14:07 PM	
Calibration:			Table/Fig. : 1				
CCV	1	S9	1.41	4.44	0.333	2/23/2018@1:15:15 PM	
Known Conc:			1.50				
CCB	1	S10	-1.21e-3	-0.0836	-6.14e-3	2/23/2018@1:16:23 PM	
Known Conc:			0.00				
MB	1	S10	-9.94e-3	-0.112	-6.87e-3	2/23/2018@1:17:32 PM	
Known Conc:			0.00				
LCS	1	S9	1.42	4.47	0.342	2/23/2018@1:18:40 PM	
Known Conc:			1.50				
480-131690-e-3	1	1	9.40e-3	-0.0496	-4.45e-3	2/23/2018@1:19:49 PM	
480-131690-e-4	1	2	1.43e-3	-0.0752	-4.87e-3	2/23/2018@1:20:59 PM	
480-131690-e-5	1	3	7.84e-3	-0.0546	-3.49e-3	2/23/2018@1:22:08 PM	
480-131690-e-6	1	4	2.96e-3	-0.0703	-5.00e-3	2/23/2018@1:23:16 PM	
480-131690-e-7	1	5	4.36e-3	-0.0658	-5.76e-3	2/23/2018@1:24:25 PM	
480-131691-p-1	1	6	0.0996	0.240	0.0179	2/23/2018@1:25:34 PM	
480-131691-p-1 DU	1	7	0.100	0.241	0.0185	2/23/2018@1:26:42 PM	
480-131691-p-1 MS	1	8	1.07	3.35	0.256	2/23/2018@1:27:51 PM	
CCV	1	S9	1.46	4.59	0.353	2/23/2018@1:28:59 PM	
Known Conc:			1.50				
CCB	1	S10	-5.68e-3	-0.0980	-5.98e-3	2/23/2018@1:30:08 PM	
Known Conc:			0.00				
480-131691-p-2	1	9	0.328	0.973	0.0732	2/23/2018@1:31:16 PM	
480-131691-p-2 MS	1	10	1.36	4.29	0.330	2/23/2018@1:32:25 PM	
480-131691-p-3	1	11	0.305	0.898	0.0650	2/23/2018@1:33:33 PM	
480-131691-p-4	1	12	0.104	0.252	0.0192	2/23/2018@1:34:41 PM	
480-131704-f-1	1	13	39.5	127	6.10	2/23/2018@1:35:49 PM	
480-131708-e-2*10	1	14	1.23	3.86	0.298	2/23/2018@1:36:57 PM	
480-131709-d-1	1	15	3.00	9.54	0.737	2/23/2018@1:38:05 PM	
480-131714-f-1	1	16	0.654	2.02	0.152	2/23/2018@1:39:14 PM	
480-131714-f-2	1	17	0.177	0.487	0.0348	2/23/2018@1:40:23 PM	
480-131721-g-1	1	18	1.68	5.32	0.405	2/23/2018@1:41:32 PM	
CCV	1	S9	1.46	4.61	0.352	2/23/2018@1:42:40 PM	
Known Conc:			1.50				
CCB	1	S10	-4.53e-3	-0.0943	-6.46e-3	2/23/2018@1:43:48 PM	
Known Conc:			0.00				
MB	1	S10	-8.39e-3	-0.107	-6.57e-3	2/23/2018@1:44:56 PM	
Known Conc:			0.00				
LCS	1	S9	1.46	4.60	0.352	2/23/2018@1:46:05 PM	
Known Conc:			1.50				
480-131721-g-2	1	19	0.449	1.36	0.0979	2/23/2018@1:47:14 PM	
480-131302-b-1	1	20	1.48	4.66	0.356	2/23/2018@1:48:23 PM	
480-131516-b-1	1	21	23.2	74.3	5.33	2/23/2018@1:49:32 PM	
480-131516-b-2	1	22	34.4	110	6.12	2/23/2018@1:50:40 PM	
480-131516-b-3	1	23	31.8	102	6.08	2/23/2018@1:51:49 PM	
480-131516-b-4	1	24	4.85	15.5	1.22	2/23/2018@1:52:57 PM	
480-131516-b-4 DU	1	25	4.92	15.7	1.22	2/23/2018@1:54:05 PM	
480-131516-b-4 MS	1	26	5.90	18.8	1.46	2/23/2018@1:55:14 PM	
CCV	1	S9	1.46	4.59	0.354	2/23/2018@1:56:21 PM	
Known Conc:			1.50				
CCB	1	S10	-4.25e-3	-0.0934	-6.09e-3	2/23/2018@1:57:29 PM	
Known Conc:			0.00				
480-131516-b-5	1	27	5.43	17.3	1.35	2/23/2018@1:58:38 PM	
480-131516-b-5 MS	1	28	6.54	20.9	1.62	2/23/2018@1:59:45 PM	
480-131516-b-6	1	29	6.75	21.6	1.68	2/23/2018@2:00:53 PM	
480-131516-b-7	1	30	-0.0116	-0.117	-8.40e-3	2/23/2018@2:02:01 PM	
480-131516-b-8	1	31	4.55	14.5	1.12	2/23/2018@2:03:10 PM	
480-131516-b-9	1	32	9.97	31.9	2.48	2/23/2018@2:04:19 PM	

502L to 5m

480-131516-b-10	1	33	2.58	8.19	0.626	2/23/2018@2:05:28 PM
480-131516-b-11	1	34	2.65	8.43	0.647	2/23/2018@2:06:37 PM
480-131516-b-12	1	35	20.4	65.3	4.83	2/23/2018@2:07:46 PM
480-131516-b-13	1	36	10.4	33.4	2.64	2/23/2018@2:08:55 PM
CCV	1	S9	1.46	4.67	0.354	2/23/2018@2:10:03 PM
		Known Conc:	1.50			
CCB	1	S10	-2.91e-3	-0.0891	-5.71e-3	2/23/2018@2:11:11 PM
		Known Conc:	0.00			
MB	1	S10	-2.01e-3	-0.0862	-5.66e-3	2/23/2018@2:12:19 PM
		Known Conc:	0.00			
LCS	1	S9	1.48	4.66	0.360	2/23/2018@2:13:27 PM
		Known Conc:	1.50			
480-131516-b-14	1	37	4.72	15.1	1.17	2/23/2018@2:14:36 PM
480-131516-b-14 DU	1	38	4.73	15.1	1.18	2/23/2018@2:15:44 PM
480-131516-b-14 MS	1	39	5.72	18.3	1.43	2/23/2018@2:16:53 PM
480-131516-b-15	1	40	6.25	20.0	1.57	2/23/2018@2:18:01 PM
480-131516-b-16	1	41	2.36	7.49	0.578	2/23/2018@2:19:09 PM
480-131516-b-17	1	42	3.32	10.6	0.828	2/23/2018@2:20:18 PM
480-131516-b-18	1	43	5.01	16.0	1.24	2/23/2018@2:21:26 PM
480-131516-b-19	1	44	2.05	6.50	0.504	2/23/2018@2:22:34 PM
CCV	1	S9	1.46	4.61	0.354	2/23/2018@2:23:42 PM
		Known Conc:	1.50			
CCB	1	S10	-5.48e-3	-0.0973	-6.47e-3	2/23/2018@2:24:50 PM
		Known Conc:	0.00			
480-131516-b-20	1	45	5.88	18.8	1.45	2/23/2018@2:25:58 PM
480-131516-b-21	1	46	4.18	13.3	1.03	2/23/2018@2:27:07 PM
480-131516-b-22	1	47	3.69	11.8	0.914	2/23/2018@2:28:16 PM
480-131516-b-23	1	48	4.18	13.3	1.04	2/23/2018@2:29:25 PM
480-131516-b-24	1	49	2.27	7.21	0.555	2/23/2018@2:30:34 PM
480-131516-b-25	1	50	4.19	13.4	1.03	2/23/2018@2:31:42 PM
480-131516-b-26	1	51	4.42	14.1	1.09	2/23/2018@2:32:51 PM
480-131516-b-27	1	52	4.15	13.2	1.03	2/23/2018@2:34:00 PM
480-131516-b-28	1	53	5.41	17.3	1.35	2/23/2018@2:35:08 PM
480-131516-b-28 MS	1	54	6.72	21.5	1.68	2/23/2018@2:36:17 PM
CCV	1	S9	1.47	4.64	0.358	2/23/2018@2:37:25 PM
		Known Conc:	1.50			
CCB	1	S10	-1.76e-3	-0.0854	-5.05e-3	2/23/2018@2:38:33 PM
		Known Conc:	0.00			
MB	1	S10	7.66e-5	-0.0795	-4.82e-3	2/23/2018@2:39:42 PM
		Known Conc:	0.00			
LCS	1	S9	1.48	4.67	0.361	2/23/2018@2:40:50 PM
		Known Conc:	1.50			
480-131704-f-1*100	1	55	1.08	3.38	0.262	2/23/2018@2:41:58 PM
480-131704-f-1*200	1	56	0.548	1.68	0.129	2/23/2018@2:43:06 PM
480-131708-e-2*10	1	57	1.33	4.19	0.324	2/23/2018@2:44:15 PM
480-131714-f-1	1	58	0.658	2.03	0.155	2/23/2018@2:45:22 PM
480-131714-f-1 DU	1	59	0.659	2.03	0.159	2/23/2018@2:46:31 PM
480-131714-f-1 MS	1	60	1.70	5.37	0.415	2/23/2018@2:47:39 PM
480-131714-f-2	1	61	0.172	0.472	0.0360	2/23/2018@2:48:48 PM
480-131516-b-1*20	1	62	1.32	4.15	0.319	2/23/2018@2:49:57 PM
CCV	1	S9	1.47	4.64	0.357	2/23/2018@2:51:06 PM
		Known Conc:	1.50			
CCB	1	S10	-7.52e-3	-0.104	-6.65e-3	2/23/2018@2:52:14 PM
		Known Conc:	0.00			
480-131516-b-2*20	1	63	3.29	10.5	0.812	2/23/2018@2:53:23 PM
480-131516-b-3*20	1	64	2.33	7.39	0.575	2/23/2018@2:54:32 PM
480-131516-b-4*2	1	65	3.20	10.2	0.795	2/23/2018@2:55:41 PM
480-131516-b-5*5	1	66	1.15	3.61	0.280	2/23/2018@2:56:50 PM
480-131516-b-5 MS*5	1	67	2.48	7.87	0.615	2/23/2018@2:57:58 PM
480-131516-b-6*5	1	68	1.44	4.52	0.351	2/23/2018@2:59:07 PM
480-131516-b-8*2	1	69	2.92	9.29	0.727	2/23/2018@3:00:15 PM
480-131516-b-9*5	1	70	2.02	6.41	0.502	2/23/2018@3:01:23 PM
480-131516-b-12*10	1	71	2.43	7.70	0.603	2/23/2018@3:02:31 PM
480-131516-b-13*10	1	72	1.02	3.19	0.248	2/23/2018@3:03:39 PM
CCV	1	S9	1.48	4.67	0.365	2/23/2018@3:04:47 PM
		Known Conc:	1.50			
CCB	1	S10	6.29e-3	-0.0596	-6.30e-3	2/23/2018@3:05:55 PM
		Known Conc:	0.00			

50h -> 5ml
25h -> 5ml
50h -> 5ml

50h -> 5ml
2/23/18

50h -> 5ml
25h -> 5ml
5ml -> 5ml
ml -> 5ml
ml -> 5ml
ml -> 5ml
ml -> 5ml
ml -> 5ml
50h -> 5ml
50h -> 5ml

MB	1	S10	-5.87e-3	-0.0986	-5.71e-3	2/23/2018@3:07:04 PM
	Known Conc:		0.00			
LCS	1	S9	1.48	4.67	0.363	2/23/2018@3:08:12 PM
	Known Conc:		1.50			
480-131737-b-2	1	73	0.0312	0.0203	3.58e-3	2/23/2018@3:09:20 PM
480-131737-b-3	1	74	2.09e-3	-0.0731	-3.97e-3	2/23/2018@3:10:28 PM
480-131516-b-14^5	1	75	1.06	3.32	0.256	2/23/2018@3:11:36 PM
480-131516-b-14 DU^5	1	76	1.08	3.39	0.261	2/23/2018@3:12:45 PM
480-131516-b-14 MS^5	1	77	2.27	7.19	0.563	2/23/2018@3:13:55 PM
480-131516-b-15	1	78	1.34	4.20	0.326	2/23/2018@3:15:04 PM
480-131516-b-17^2	1	79	2.09	6.63	0.519	2/23/2018@3:16:13 PM
480-131516-b-18^5	1	80	1.12	3.51	0.275	2/23/2018@3:17:21 PM
CCV	1	S9	1.49	4.70	0.365	2/23/2018@3:18:30 PM
	Known Conc:		1.50			
CCB	1	S10	0.0288	0.0126	2.14e-3	2/23/2018@3:19:38 PM
	Known Conc:		100			
480-131516-b-20^5	1	81	1.37	4.32	0.335	2/23/2018@3:20:47 PM
480-131516-b-21^5	1	82	0.933	2.91	0.226	2/23/2018@3:21:56 PM
480-131516-b-22^2	1	83	2.41	7.65	0.601	2/23/2018@3:23:04 PM
480-131516-b-23^5	1	84	1.00	3.13	0.244	2/23/2018@3:24:13 PM
480-131516-b-25^5	1	85	0.850	2.65	0.207	2/23/2018@3:25:21 PM
480-131516-b-26^5	1	86	0.975	3.05	0.237	2/23/2018@3:26:29 PM
480-131516-b-27^5	1	87	0.861	2.68	0.207	2/23/2018@3:27:37 PM
480-131516-b-28^5	1	88	1.11	3.48	0.270	2/23/2018@3:28:45 PM
480-131588-f-7	1	89	0.0914	0.213	0.0151	2/23/2018@3:29:54 PM
480-131588-f-7 MS	1	90	0.844	2.63	0.194	2/23/2018@3:31:02 PM
CCV	1	S9	1.45	4.55	0.351	2/23/2018@3:32:10 PM
	Known Conc:		100			
CCB	1	S10	0.0323	0.0237	3.09e-3	2/23/2018@3:33:19 PM
	Known Conc:		100			
MB	1	S10	1.35e-3	-0.0754	-5.11e-3	2/23/2018@3:34:27 PM
	Known Conc:		100			
LCS	1	S9	1.46	4.62	0.357	2/23/2018@3:35:35 PM
	Known Conc:		100			
480-131516-b-2^50	1	91	1.60	5.04	0.391	2/23/2018@3:36:44 PM
480-131516-b-4^5	1	92	1.29	4.05	0.313	2/23/2018@3:37:54 PM
480-131737-b-1	1	93	0.0111	-0.0443	2.36e-3	2/23/2018@3:39:03 PM
480-131737-b-4	1	94	9.30e-3	-0.0499	-3.53e-3	2/23/2018@3:40:12 PM
480-131737-b-5	1	95	0.0604	0.114	8.78e-3	2/23/2018@3:41:21 PM
480-131737-b-6	1	96	9.70e-3	-0.0487	-3.52e-3	2/23/2018@3:42:30 PM
480-131737-b-6 DU	1	97	9.41e-3	-0.0496	-3.59e-3	2/23/2018@3:43:38 PM
480-131737-b-6 MS	1	98	1.10	3.46	0.254	2/23/2018@3:44:47 PM
CCV	1	S9	-0.454	-1.54	-0.0951	2/23/2018@3:45:55 PM
	Known Conc:		100			
CCB	1	S10	0.0287	0.0122	-0.0219	2/23/2018@3:47:04 PM
	Known Conc:		100			

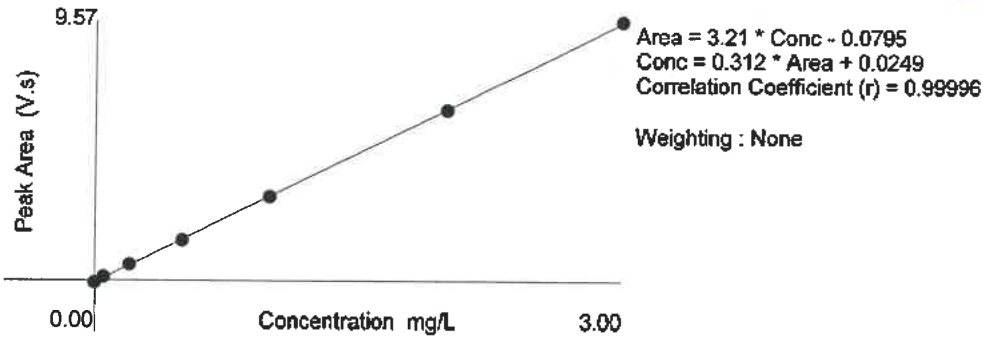
Analyte Properties Table for : OM_2-23-2018_01-13-02PM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.57	0.769	0.0	-0.3	3.01	2/22/2018	5:35:44 PM
2	2.00	1	6.30	0.504	0.0	0.5	1.99	2/22/2018	5:36:53 PM
3	1.00	1	3.10	0.247	0.0	0.9	0.991	2/22/2018	5:38:01 PM
4	0.500	1	1.49	0.118	0.0	1.9	0.491	2/22/2018	5:39:10 PM
5	0.200	1	0.583	0.0460	0.0	-3.9	0.207	2/22/2018	5:40:19 PM
6	0.0500	1	0.122	9.46e-3	0.0	-50.5	0.0628	2/22/2018	5:41:29 PM
7	0.00	1	-0.0872	-5.71e-3			-2.32e-3	2/22/2018	5:42:38 PM

Figure : 1 (Nitrate/Nitrite)



NO₃

401326

Original Run Filename: OM_2-23-2018_03-57-33PM.OMN Created: 2/23/2018 3:57:33 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_2-23-2018_03-57-33PM.OMN Last Modified: 2/23/2018 4:20:29 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

DB
2/23/18

100µl → 5ml
1ml → 5ml

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.43	4.49	0.353	2/23/2018@3:58:17 PM	
CCV	1	S9	1.44	4.53	0.362	2/23/2018@3:59:26 PM	
Known Conc:			100				
Calibration:			Table/Fig.: 1				
CCB	1	S10	-2.27e-3	-0.0870	-6.28e-3	2/23/2018@4:00:34 PM	
Known Conc:			100				
MB	1	S10	-7.80e-3	-0.105	-5.89e-3	2/23/2018@4:01:43 PM	
Known Conc:			100				
LCS	1	S9	1.43	4.52	0.363	2/23/2018@4:02:51 PM	
Known Conc:			100				
480-131516-b-2^50	1	91	1.23	3.86	0.305	2/23/2018@4:04:00 PM	
480-131516-b-4^5	1	92	0.875	2.73	0.215	2/23/2018@4:05:09 PM	
480-131737-b-1	1	93	-4.48e-4	-0.0812	-4.49e-3	2/23/2018@4:06:18 PM	
480-131737-b-4	1	94	4.50e-3	-0.0653	-5.55e-3	2/23/2018@4:07:27 PM	
480-131737-b-5	1	95	0.0380	0.0421	5.29e-3	2/23/2018@4:08:38 PM	
480-131737-b-6	1	96	3.95e-3	-0.0671	-4.41e-3	2/23/2018@4:09:45 PM	
480-131737-b-6 DU	1	97	4.80e-3	-0.0644	-4.98e-3	2/23/2018@4:10:54 PM	
480-131737-b-6 MS	1	98	1.02	3.19	0.242	2/23/2018@4:12:03 PM	
CCV	1	S9	1.47	4.62	0.357	2/23/2018@4:13:11 PM	
Known Conc:			100				
CCB	1	S10	-2.64e-3	-0.0882	-6.10e-3	2/23/2018@4:14:19 PM	
Known Conc:			100				
480-131737-b-8	1	99	3.75e-3	-0.0677	-4.82e-3	2/23/2018@4:15:27 PM	
480-131737-b-8 MS	1	100	1.00	3.13	0.240	2/23/2018@4:16:36 PM	
CCV	1	S9	1.45	4.58	0.351	2/23/2018@4:17:44 PM	
Known Conc:			100				
CCB	1	S10	-0.0268	-0.166	-8.39e-3	2/23/2018@4:18:52 PM	
Known Conc:			100				

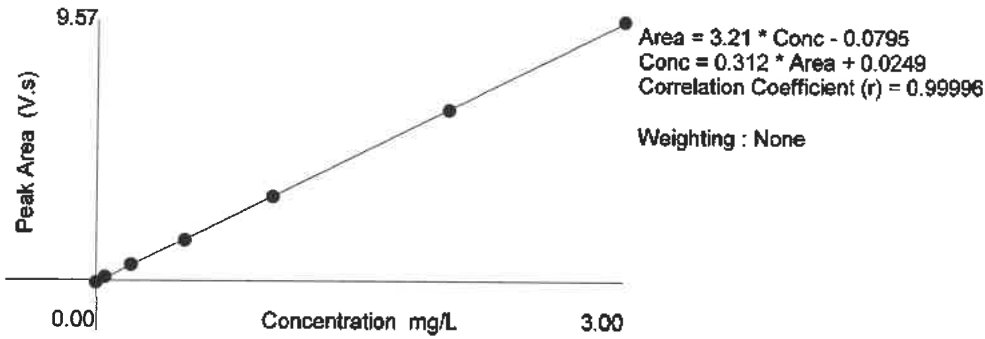
Analyte Properties Table for : OM_2-23-2018_03-57-33PM.OMN

Property	Channel 2
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.57	0.769	0.0	-0.3	3.01	2/22/2018	5:35:44 PM
2	2.00	1	6.30	0.504	0.0	0.5	1.99	2/22/2018	5:36:53 PM
3	1.00	1	3.10	0.247	0.0	0.9	0.991	2/22/2018	5:38:01 PM
4	0.500	1	1.49	0.118	0.0	1.9	0.491	2/22/2018	5:39:10 PM
5	0.200	1	0.583	0.0460	0.0	-3.9	0.207	2/22/2018	5:40:19 PM
6	0.0500	1	0.122	9.46e-3	0.0	-50.5	0.0628	2/22/2018	5:41:29 PM
7	0.00	1	-0.0872	-5.71e-3			-2.32e-3	2/22/2018	5:42:38 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_2-23-2018_04-54-34PM.OMN Created: 2/23/2018 4:54:34 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_2-23-2018_04-54-34PM.OMN Last Modified: 2/23/2018 5:38:00 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

NO₂

401336

DB
2/23/18

10ul -> 5mL
20ul -> 5mL

1.5 -> 5mL

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite				
			Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.49	4.93	0.433	2/23/2018@4:55:39 PM	
Known Conc:			100				
Calibration:			Table/Fig. : 1				
CCB	1	S10	-6.34e-3	-0.0679	-6.48e-3	2/23/2018@4:56:45 PM	
Known Conc:			100				
MB	1	S10	-3.21e-4	-0.0478	-6.04e-3	2/23/2018@4:57:51 PM	
Known Conc:			100				
LCS	1	S11	1.47	4.87	0.424	2/23/2018@4:58:58 PM	
Known Conc:			100				
480-131691-p-1	1	1	-0.0195	-0.112	-8.07e-3	2/23/2018@5:00:05 PM	
480-131691-p-1 DU	1	2	-3.01e-3	-0.0568	-5.31e-3	2/23/2018@5:01:12 PM	
480-131691-p-1 MS	1	3	1.01	3.33	0.291	2/23/2018@5:02:19 PM	
480-131691-p-2	1	4	-4.82e-3	-0.0628	-6.13e-3	2/23/2018@5:03:26 PM	
480-131691-p-3	1	5	0.0382	0.0813	0.0120	2/23/2018@5:04:32 PM	
480-131691-p-4	1	6	-8.39e-3	-0.0748	-6.18e-3	2/23/2018@5:05:39 PM	
480-131704-f-1^100	1	7	-0.0124	-0.0884	-5.97e-3	2/23/2018@5:06:45 PM	
480-131704-f-1^50	1	8	-8.83e-3	-0.0763	-0.0138	2/23/2018@5:07:51 PM	
CCV	1	S11	1.49	4.95	0.440	2/23/2018@5:08:58 PM	
Known Conc:			100				
CCB	1	S10	-0.0128	-0.0896	-7.06e-3	2/23/2018@5:10:04 PM	
Known Conc:			100				
480-131708-e-2	1	9	0.294	0.939	0.0836	2/23/2018@5:11:10 PM	
480-131708-e-2	1	10	0.298	0.952	0.0806	2/23/2018@5:12:16 PM	
480-131709-d-1	1	11	-6.34e-3	-0.0679	-5.92e-3	2/23/2018@5:13:22 PM	
480-131714-f-1	1	12	-2.28e-3	-0.0543	-4.94e-3	2/23/2018@5:14:28 PM	
480-131714-f-2	1	13	0.133	0.397	0.0328	2/23/2018@5:15:33 PM	
480-131714-f-2 MS	1	14	1.19	3.93	0.341	2/23/2018@5:16:39 PM	
480-131721-g-1	1	15	1.19	3.93	0.343	2/23/2018@5:17:44 PM	
480-131721-g-2	1	16	0.317	1.01	0.0846	2/23/2018@5:18:51 PM	
480-131704-f-1^2	1	17	7.35e-3	-0.0221	-3.35e-3	2/23/2018@5:19:58 PM	
480-131704-f-1^2	1	18	-9.50e-4	-0.0499	-7.48e-3	2/23/2018@5:21:05 PM	
CCV	1	S11	1.49	4.95	0.433	2/23/2018@5:22:12 PM	
Known Conc:			100				
CCB	1	S10	-7.30e-3	-0.0711	-5.91e-3	2/23/2018@5:23:18 PM	
Known Conc:			100				
MB	1	S10	-0.0106	-0.0823	-6.82e-3	2/23/2018@5:24:24 PM	
Known Conc:			100				
LCS	1	S11	1.49	4.95	0.436	2/23/2018@5:25:30 PM	
Known Conc:			100				
480-131714-f-2	1	19	0.136	0.409	0.0339	2/23/2018@5:26:37 PM	
480-131721-g-1	1	20	1.17	3.88	0.345	2/23/2018@5:27:44 PM	
480-131721-g-2	1	21	0.334	1.07	0.0885	2/23/2018@5:28:50 PM	
480-131704-f-1	1	22	0.0435	0.0989	7.17e-3	2/23/2018@5:29:57 PM	
480-131704-f-1 DU	1	23	0.0448	0.103	7.19e-3	2/23/2018@5:31:03 PM	
480-131704-f-1 MS	1	24	1.15	3.79	0.424	2/23/2018@5:32:09 PM	
CCV	1	S11	1.26	4.16	0.437	2/23/2018@5:33:16 PM	
Known Conc:			100				
CCB	1	S10	-0.0169	-0.103	-6.97e-3	2/23/2018@5:34:22 PM	
Known Conc:			100				
CCV	1	S11	1.49	4.94	0.439	2/23/2018@5:35:28 PM	
Known Conc:			100				
CCB	1	S10	-0.0208	-0.116	-7.01e-3	2/23/2018@5:36:34 PM	
Known Conc:			100				

Analyte Properties Table for : OM_2-23-2018_04-54-34PM.OMN

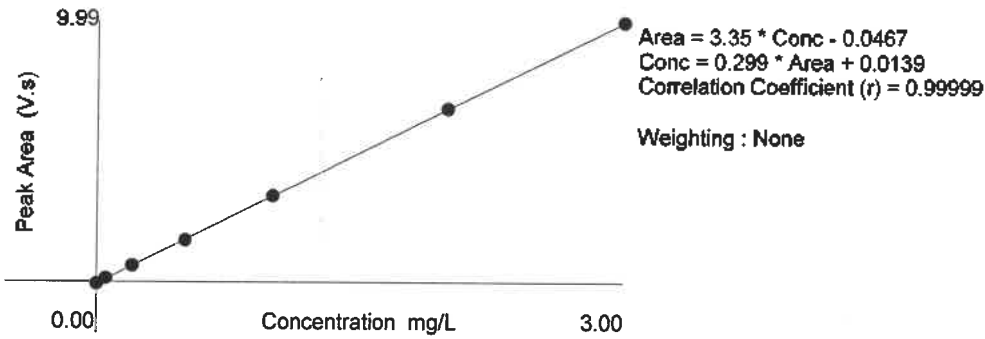
Property	Channel 2
	Nitrite

Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	10
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.99	0.886	0.0	0.0	3.00	2/23/2018	4:43:37 PM
2	2.00	1	6.66	0.594	0.0	-0.1	2.00	2/23/2018	4:44:43 PM
3	1.00	1	3.31	0.293	0.0	-0.3	1.00	2/23/2018	4:45:50 PM
4	0.500	1	1.61	0.142	0.0	0.9	0.496	2/23/2018	4:46:56 PM
5	0.200	1	0.628	0.0557	0.0	-0.8	0.202	2/23/2018	4:48:03 PM
6	0.0500	1	0.140	0.0116	0.0	-15.8	0.0557	2/23/2018	4:49:10 PM
7	0.00	1	-0.0568	-5.87e-3			-6.01e-3	2/23/2018	4:50:17 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 401321

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Limits	
									Fail 3-Sigma	Fail Client
480-131302-B-1	SPRING 1	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.5	<input type="checkbox"/>	<input type="checkbox"/>
480-131588-F-7	MW-6R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.091	<input type="checkbox"/>	<input type="checkbox"/>
480-131708-E-2 ^10EFFLUENT		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	10.0	12	<input type="checkbox"/>	<input type="checkbox"/>
480-131714-F-1	MW314A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	7	1.0	0.65 <i>0.658</i>	<input type="checkbox"/>	<input type="checkbox"/>
480-131714-F-2	MW314B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	7	1.0	0.18 <i>0.172</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
480-131721-G-1	MH20_Comp	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.7	<input type="checkbox"/>	<input type="checkbox"/>
480-131721-G-2	MH21_Comp	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.45	<input type="checkbox"/>	<input type="checkbox"/>

*confirmed
same batch*

Historical Data Summary Report

For Batch 401336

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data			Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution	Result		
480-131708-E-2	EFFLUENT	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.29	<input type="checkbox"/> 0.146 - 0.779	<input type="checkbox"/> 0.264 - 0.792
480-131714-F-1	MW314A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	7	1.0	ND	<input type="checkbox"/> 0 - 0.24	<input type="checkbox"/> 0 - 0.192
480-131714-F-2	MW314B	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	7	1.0	0.13 <u>0.136</u>	<input checked="" type="checkbox"/> 0 - 0.103	<input checked="" type="checkbox"/> 0 - 0.076
480-131721-G-1	MH20_Comp	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	1.2	<input type="checkbox"/> 0 - 2.02	<input type="checkbox"/> 0.248 - 1.8
480-131721-G-2	MH21_Comp	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.32	<input type="checkbox"/> 0 - 1.644	<input type="checkbox"/> 0 - 1.56

401560

Analyst	MAL
Date	2-26-18
Start Time	1245
End Time	400

Batch

Standard Information	
CCV ID	4501889
Stock Conc.	
CCV Conc.	0.00 96.0
LCS ID	4501890
Stock Conc.	
LCS Conc.	0.00 9.00

Standard Information		
Reagent	Normality	ID
Iodine Solution	0.025	7449718
Sodium Thiosulfate	0.025	4367666
Starch Indicator	NA	4365813
HCL	NA	

Reporting Limit Information (mg/L)	
EQL	1.0

EPPENDORFS

Job #	Sample ID	Sample Volume (mL)	Iodine Volume (mL)	Starting Point	Ending Point	Na ₂ S ₂ O ₃ Titrant (mL)	Final Sulfide conc. mg/l	Recovery %	Comments
				of Titrant on Burette	of Titrant on Burette				
CCV	CCV	100	5		21.5	0.00	#DIV/0!	#DIV/0!	
CCB	CCB	100	1	31.5	31.5	0.00	#DIV/0!		
Blank	MB	100	1	31.5	41.5	0.00	#DIV/0!		
LCS	LCS	100	5	41.5	71.2	0.00	#DIV/0!	#DIV/0!	
131552	F-1	100	1	7.2	8.1	0.00	#DIV/0!		
	F-2	100	1	8.1	9.1	0.00	#DIV/0!		
	F-2 DV	100	1	9.1	10.2	0.00	#DIV/0!		
131737	A-1	100	1	10.2	11.2	0.00	#DIV/0!		
	A-1 MS	100	2	11.2	12.5	0.00	#DIV/0!		
	A-2	100	1	12.5	13.5	0.00	#DIV/0!		
	A-3	100	1	13.5	14.5	0.00	#DIV/0!		
	A-4	100	1	14.5	15.5	0.00	#DIV/0!		
CCV	CCV	100	5	15.5	18.1	0.00	#DIV/0!	#DIV/0!	
CCB	CCB	100	1	18.1	19.1	0.00	#DIV/0!		
131737	A-5	100	1	19.1	20.1	0.00	#DIV/0!		
	A-6	100	1	20.1	20.6	0.00	#DIV/0!		
	A-6 DV	100	1	20.6	21.0	0.00	#DIV/0!		
	A-8	100	1	21.0	21.9	0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
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						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
CCV	CCV	100	5	21.9	24.6	0.00	#DIV/0!	#DIV/0!	
CCB	CCB	100	1	24.6	25.6	0.00	#DIV/0!		
MB	MB					0.00	#DIV/0!		
LCS	LCS					0.00	#DIV/0!	#DIV/0!	
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
						0.00	#DIV/0!		
CCV	CCV					0.00	#DIV/0!		
CCB	CCB					0.00	#DIV/0!	#DIV/0!	

401560

Sulfide Stock Solution Standardization for Reactive Sulfide

Add 5.0 mL of 0.025N iodine solution to a 250 mL flask
Add 1.0 mL of 6N HCl
Add 1.0 mL of 1000 ppm pre-certified Sodium Sulfide below the surface of the Iodine solution
Dilute to 100 mL with reagent water
Add 1 dropper of starch indicator
Titrate with 0.025N Sodium Thiosulfate until the endpoint is reached (blue color disappears)

Repeat twice and average the results

The standardized sodium sulfide concentration is calculated as follows:

$$S = [(A \times B) - (C \times D)] \times 16,000 / E$$

Where:

- A = Volume of iodine solution (5.0 mL)
- B = Normality of iodine solution (0.025N)
- C = Volume of Na₂S₂O₃ solution (Determined by standardization)
- D = Normality of Na₂S₂O₃ solution (0.025N)
- E = Volume of sulfide stock (1.0 mL)
- S = Concentration of sulfide stock

The standardization procedure must be completed for both the primary source standard used for the CCV/MS and the secondary source standard for the LCS

Date:	<input type="text" value="2/26/2018"/>	0.025N Iodine	TALS ID:
		0.025N Sodium Thiosulfate	4449718
CCV/MS			4364666

mL Na ₂ S ₂ O ₃ used for Titration 1:	2.60
mL Na ₂ S ₂ O ₃ used for Titration 1:	2.60
Avg mL:	<input type="text" value="2.60"/>

Sodium Sulfide Concentration (mg/L):	<input type="text" value="960"/>	ENTER in S2F spreadsheet under CCV "Stock Conc."
STOCK Reagent ID	4452358	The actual concentration of the CCV will calculate automatically
NEW Reagent ID (CCV/MS)	4501889	

LCS

mL Na ₂ S ₂ O ₃ used for Titration 1:	2.80
mL Na ₂ S ₂ O ₃ used for Titration 1:	2.70
Avg mL:	<input type="text" value="2.75"/>

Sodium Sulfide Concentration (mg/L):	<input type="text" value="900"/>	ENTER in S2F spreadsheet under LCS "Stock Conc."
STOCK Reagent ID	4493202	The actual concentration of the LCS will calculate automatically
NEW Reagent ID	4501890	

401321 401326 401336 401337 401338

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions #

Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	3878175	Exp. 05/31/2018
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4234660	Exp. 03/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4496039	Exp. 02/28/2018
Nitrite Int STD(MS)	4496041	Exp. 02/28/2018
Nitrate 1.5ppm CCV/ICV/LCS	4500005	Exp. 02/24/2018
Nitrite 1.5ppm CCV/ICV/LCS	4500006	Exp. 02/24/2018
Ammonium Chloride Buffer	4498629	Exp. 03/22/2018
Color Reagent	4499628	Exp. 03/23/2018
1:4 Ammonium Hydroxide	4461272	Exp. 07/19/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L -1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 2/23/18

NO₂ + pres. 401321

Original Run Filename: OM_2-23-2018_01-13-02PM.OMN Created: 2/23/2018 1:13:02 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_2-23-2018_01-13-02PM.OMN Last Modified: 2/23/2018 3:49:27 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

DB
2/23/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.36	4.27	0.319	2/23/2018@1:14:07 PM	
Calibration:			Table/Fig. : 1				
CCV	1	S9	1.41	4.44	0.333	2/23/2018@1:15:15 PM	
Known Conc:			1.50				
CCB	1	S10	-1.21e-3	-0.0836	-6.14e-3	2/23/2018@1:16:23 PM	
Known Conc:			0.00				
MB	1	S10	-9.94e-3	-0.112	-6.87e-3	2/23/2018@1:17:32 PM	
Known Conc:			0.00				
LCS	1	S9	1.42	4.47	0.342	2/23/2018@1:18:40 PM	
Known Conc:			1.50				
480-131690-e-3	1	1	9.40e-3	-0.0496	-4.45e-3	2/23/2018@1:19:49 PM	
480-131690-e-4	1	2	1.43e-3	-0.0752	-4.87e-3	2/23/2018@1:20:59 PM	
480-131690-e-5	1	3	7.84e-3	-0.0546	-3.49e-3	2/23/2018@1:22:08 PM	
480-131690-e-6	1	4	2.96e-3	-0.0703	-5.00e-3	2/23/2018@1:23:16 PM	
480-131690-e-7	1	5	4.36e-3	-0.0658	-5.76e-3	2/23/2018@1:24:25 PM	
480-131691-p-1	1	6	0.0996	0.240	0.0179	2/23/2018@1:25:34 PM	
480-131691-p-1 DU	1	7	0.100	0.241	0.0185	2/23/2018@1:26:42 PM	
480-131691-p-1 MS	1	8	1.07	3.35	0.256	2/23/2018@1:27:51 PM	
CCV	1	S9	1.46	4.59	0.353	2/23/2018@1:28:59 PM	
Known Conc:			1.50				
CCB	1	S10	-5.68e-3	-0.0980	-5.98e-3	2/23/2018@1:30:08 PM	
Known Conc:			0.00				
480-131691-p-2	1	9	0.328	0.973	0.0732	2/23/2018@1:31:16 PM	
480-131691-p-2 MS	1	10	1.36	4.29	0.330	2/23/2018@1:32:25 PM	
480-131691-p-3	1	11	0.305	0.898	0.0650	2/23/2018@1:33:33 PM	
480-131691-p-4	1	12	0.104	0.252	0.0192	2/23/2018@1:34:41 PM	
480-131704-f-1	1	13	39.5	127	6.10	2/23/2018@1:35:49 PM	
480-131708-e-2*10	1	14	1.23	3.86	0.298	2/23/2018@1:36:57 PM	
480-131709-d-1	1	15	3.00	9.54	0.737	2/23/2018@1:38:05 PM	
480-131714-f-1	1	16	0.654	2.02	0.152	2/23/2018@1:39:14 PM	
480-131714-f-2	1	17	0.177	0.487	0.0348	2/23/2018@1:40:23 PM	
480-131721-g-1	1	18	1.68	5.32	0.405	2/23/2018@1:41:32 PM	
CCV	1	S9	1.46	4.61	0.352	2/23/2018@1:42:40 PM	
Known Conc:			1.50				
CCB	1	S10	-4.53e-3	-0.0943	-6.46e-3	2/23/2018@1:43:48 PM	
Known Conc:			0.00				
MB	1	S10	-8.39e-3	-0.107	-6.57e-3	2/23/2018@1:44:56 PM	
Known Conc:			0.00				
LCS	1	S9	1.46	4.60	0.352	2/23/2018@1:46:05 PM	
Known Conc:			1.50				
480-131721-g-2	1	19	0.449	1.36	0.0979	2/23/2018@1:47:14 PM	
480-131302-b-1	1	20	1.48	4.66	0.356	2/23/2018@1:48:23 PM	
480-131516-b-1	1	21	23.2	74.3	5.33	2/23/2018@1:49:32 PM	
480-131516-b-2	1	22	34.4	110	6.12	2/23/2018@1:50:40 PM	
480-131516-b-3	1	23	31.8	102	6.08	2/23/2018@1:51:49 PM	
480-131516-b-4	1	24	4.85	15.5	1.22	2/23/2018@1:52:57 PM	
480-131516-b-4 DU	1	25	4.92	15.7	1.22	2/23/2018@1:54:05 PM	
480-131516-b-4 MS	1	26	5.90	18.8	1.46	2/23/2018@1:55:14 PM	
CCV	1	S9	1.46	4.59	0.354	2/23/2018@1:56:21 PM	
Known Conc:			1.50				
CCB	1	S10	-4.25e-3	-0.0934	-6.09e-3	2/23/2018@1:57:29 PM	
Known Conc:			0.00				
480-131516-b-5	1	27	5.43	17.3	1.35	2/23/2018@1:58:38 PM	
480-131516-b-5 MS	1	28	6.54	20.9	1.62	2/23/2018@1:59:45 PM	
480-131516-b-6	1	29	6.75	21.6	1.68	2/23/2018@2:00:53 PM	
480-131516-b-7	1	30	-0.0116	-0.117	-8.40e-3	2/23/2018@2:02:01 PM	
480-131516-b-8	1	31	4.55	14.5	1.12	2/23/2018@2:03:10 PM	
480-131516-b-9	1	32	9.97	31.9	2.48	2/23/2018@2:04:19 PM	

502L to 5m

480-131516-b-10	1	33	2.58	8.19	0.626	2/23/2018@2:05:28 PM
480-131516-b-11	1	34	2.65	8.43	0.647	2/23/2018@2:06:37 PM
480-131516-b-12	1	35	20.4	65.3	4.83	2/23/2018@2:07:46 PM
480-131516-b-13	1	36	10.4	33.4	2.64	2/23/2018@2:08:55 PM
CCV	1	S9	1.46	4.67	0.354	2/23/2018@2:10:03 PM
		Known Conc:	1.50			
CCB	1	S10	-2.91e-3	-0.0891	-5.71e-3	2/23/2018@2:11:11 PM
		Known Conc:	0.00			
MB	1	S10	-2.01e-3	-0.0862	-5.66e-3	2/23/2018@2:12:19 PM
		Known Conc:	0.00			
LCS	1	S9	1.48	4.66	0.360	2/23/2018@2:13:27 PM
		Known Conc:	1.50			
480-131516-b-14	1	37	4.72	15.1	1.17	2/23/2018@2:14:36 PM
480-131516-b-14 DU	1	38	4.73	15.1	1.18	2/23/2018@2:15:44 PM
480-131516-b-14 MS	1	39	5.72	18.3	1.43	2/23/2018@2:16:53 PM
480-131516-b-15	1	40	6.25	20.0	1.57	2/23/2018@2:18:01 PM
480-131516-b-16	1	41	2.36	7.49	0.578	2/23/2018@2:19:09 PM
480-131516-b-17	1	42	3.32	10.6	0.828	2/23/2018@2:20:18 PM
480-131516-b-18	1	43	5.01	16.0	1.24	2/23/2018@2:21:26 PM
480-131516-b-19	1	44	2.05	6.50	0.504	2/23/2018@2:22:34 PM
CCV	1	S9	1.46	4.61	0.354	2/23/2018@2:23:42 PM
		Known Conc:	1.50			
CCB	1	S10	-5.48e-3	-0.0973	-6.47e-3	2/23/2018@2:24:50 PM
		Known Conc:	0.00			
480-131516-b-20	1	45	5.88	18.8	1.45	2/23/2018@2:25:58 PM
480-131516-b-21	1	46	4.18	13.3	1.03	2/23/2018@2:27:07 PM
480-131516-b-22	1	47	3.69	11.8	0.914	2/23/2018@2:28:16 PM
480-131516-b-23	1	48	4.18	13.3	1.04	2/23/2018@2:29:25 PM
480-131516-b-24	1	49	2.27	7.21	0.555	2/23/2018@2:30:34 PM
480-131516-b-25	1	50	4.19	13.4	1.03	2/23/2018@2:31:42 PM
480-131516-b-26	1	51	4.42	14.1	1.09	2/23/2018@2:32:51 PM
480-131516-b-27	1	52	4.15	13.2	1.03	2/23/2018@2:34:00 PM
480-131516-b-28	1	53	5.41	17.3	1.35	2/23/2018@2:35:08 PM
480-131516-b-28 MS	1	54	6.72	21.5	1.68	2/23/2018@2:36:17 PM
CCV	1	S9	1.47	4.64	0.358	2/23/2018@2:37:25 PM
		Known Conc:	1.50			
CCB	1	S10	-1.76e-3	-0.0854	-5.05e-3	2/23/2018@2:38:33 PM
		Known Conc:	0.00			
MB	1	S10	7.66e-5	-0.0795	-4.82e-3	2/23/2018@2:39:42 PM
		Known Conc:	0.00			
LCS	1	S9	1.48	4.67	0.361	2/23/2018@2:40:50 PM
		Known Conc:	1.50			
480-131704-f-1*100	1	55	1.08	3.38	0.262	2/23/2018@2:41:58 PM
480-131704-f-1*200	1	56	0.548	1.68	0.129	2/23/2018@2:43:06 PM
480-131708-e-2*10	1	57	1.33	4.19	0.324	2/23/2018@2:44:15 PM
480-131714-f-1	1	58	0.658	2.03	0.155	2/23/2018@2:45:22 PM
480-131714-f-1 DU	1	59	0.659	2.03	0.159	2/23/2018@2:46:31 PM
480-131714-f-1 MS	1	60	1.70	5.37	0.415	2/23/2018@2:47:39 PM
480-131714-f-2	1	61	0.172	0.472	0.0360	2/23/2018@2:48:48 PM
480-131516-b-1*20	1	62	1.32	4.15	0.319	2/23/2018@2:49:57 PM
CCV	1	S9	1.47	4.64	0.357	2/23/2018@2:51:06 PM
		Known Conc:	1.50			
CCB	1	S10	-7.52e-3	-0.104	-6.65e-3	2/23/2018@2:52:14 PM
		Known Conc:	0.00			
480-131516-b-2*20	1	63	3.29	10.5	0.812	2/23/2018@2:53:23 PM
480-131516-b-3*20	1	64	2.33	7.39	0.575	2/23/2018@2:54:32 PM
480-131516-b-4*2	1	65	3.20	10.2	0.795	2/23/2018@2:55:41 PM
480-131516-b-5*5	1	66	1.15	3.61	0.280	2/23/2018@2:56:50 PM
480-131516-b-5 MS*5	1	67	2.48	7.87	0.615	2/23/2018@2:57:58 PM
480-131516-b-6*5	1	68	1.44	4.52	0.351	2/23/2018@2:59:07 PM
480-131516-b-8*2	1	69	2.92	9.29	0.727	2/23/2018@3:00:15 PM
480-131516-b-9*5	1	70	2.02	6.41	0.502	2/23/2018@3:01:23 PM
480-131516-b-12*10	1	71	2.43	7.70	0.603	2/23/2018@3:02:31 PM
480-131516-b-13*10	1	72	1.02	3.19	0.248	2/23/2018@3:03:39 PM
CCV	1	S9	1.48	4.67	0.365	2/23/2018@3:04:47 PM
		Known Conc:	1.50			
CCB	1	S10	6.29e-3	-0.0596	-6.30e-3	2/23/2018@3:05:55 PM
		Known Conc:	0.00			

50h → 5ml
25ml → 5ml
50h → 5ml

50h → 5ml
20h → 5ml

50h → 5ml
20h → 5ml
5ml → 5ml
ml → 5ml
ml → 5ml
ml → 5ml
ml → 5ml
50h → 5ml
50h → 5ml

MB	1	S10	-5.87e-3	-0.0986	-5.71e-3	2/23/2018@3:07:04 PM
	Known Conc:		0.00			
LCS	1	S9	1.48	4.67	0.363	2/23/2018@3:08:12 PM
	Known Conc:		1.50			
480-131737-b-2	1	73	0.0312	0.0203	3.58e-3	2/23/2018@3:09:20 PM
480-131737-b-3	1	74	2.09e-3	-0.0731	-3.97e-3	2/23/2018@3:10:28 PM
480-131516-b-14^5	1	75	1.06	3.32	0.256	2/23/2018@3:11:36 PM
480-131516-b-14 DU^5	1	76	1.08	3.39	0.261	2/23/2018@3:12:45 PM
480-131516-b-14 MS^5	1	77	2.27	7.19	0.563	2/23/2018@3:13:55 PM
480-131516-b-15	1	78	1.34	4.20	0.326	2/23/2018@3:15:04 PM
480-131516-b-17^2	1	79	2.09	6.63	0.519	2/23/2018@3:16:13 PM
480-131516-b-18^5	1	80	1.12	3.51	0.275	2/23/2018@3:17:21 PM
CCV	1	S9	1.49	4.70	0.365	2/23/2018@3:18:30 PM
	Known Conc:		1.50			
CCB	1	S10	0.0288	0.0126	2.14e-3	2/23/2018@3:19:38 PM
	Known Conc:		100			
480-131516-b-20^5	1	81	1.37	4.32	0.335	2/23/2018@3:20:47 PM
480-131516-b-21^5	1	82	0.933	2.91	0.226	2/23/2018@3:21:56 PM
480-131516-b-22^2	1	83	2.41	7.65	0.601	2/23/2018@3:23:04 PM
480-131516-b-23^5	1	84	1.00	3.13	0.244	2/23/2018@3:24:13 PM
480-131516-b-25^5	1	85	0.850	2.65	0.207	2/23/2018@3:25:21 PM
480-131516-b-26^5	1	86	0.975	3.05	0.237	2/23/2018@3:26:29 PM
480-131516-b-27^5	1	87	0.861	2.68	0.207	2/23/2018@3:27:37 PM
480-131516-b-28^5	1	88	1.11	3.48	0.270	2/23/2018@3:28:45 PM
480-131588-f-7	1	89	0.0914	0.213	0.0151	2/23/2018@3:29:54 PM
480-131588-f-7 MS	1	90	0.844	2.63	0.194	2/23/2018@3:31:02 PM
CCV	1	S9	1.45	4.55	0.351	2/23/2018@3:32:10 PM
	Known Conc:		100			
CCB	1	S10	0.0323	0.0237	3.09e-3	2/23/2018@3:33:19 PM
	Known Conc:		100			
MB	1	S10	1.35e-3	-0.0754	-5.11e-3	2/23/2018@3:34:27 PM
	Known Conc:		100			
LCS	1	S9	1.46	4.62	0.357	2/23/2018@3:35:35 PM
	Known Conc:		100			
480-131516-b-2^50	1	91	1.60	5.04	0.391	2/23/2018@3:36:44 PM
480-131516-b-4^5	1	92	1.29	4.05	0.313	2/23/2018@3:37:54 PM
480-131737-b-1	1	93	0.0111	-0.0443	2.36e-3	2/23/2018@3:39:03 PM
480-131737-b-4	1	94	9.30e-3	-0.0499	-3.53e-3	2/23/2018@3:40:12 PM
480-131737-b-5	1	95	0.0604	0.114	8.78e-3	2/23/2018@3:41:21 PM
480-131737-b-6	1	96	9.70e-3	-0.0487	-3.52e-3	2/23/2018@3:42:30 PM
480-131737-b-6 DU	1	97	9.41e-3	-0.0496	-3.59e-3	2/23/2018@3:43:38 PM
480-131737-b-6 MS	1	98	1.10	3.46	0.254	2/23/2018@3:44:47 PM
CCV	1	S9	-0.454	-1.54	-0.0951	2/23/2018@3:45:55 PM
	Known Conc:		100			
CCB	1	S10	0.0287	0.0122	-0.0219	2/23/2018@3:47:04 PM
	Known Conc:		100			

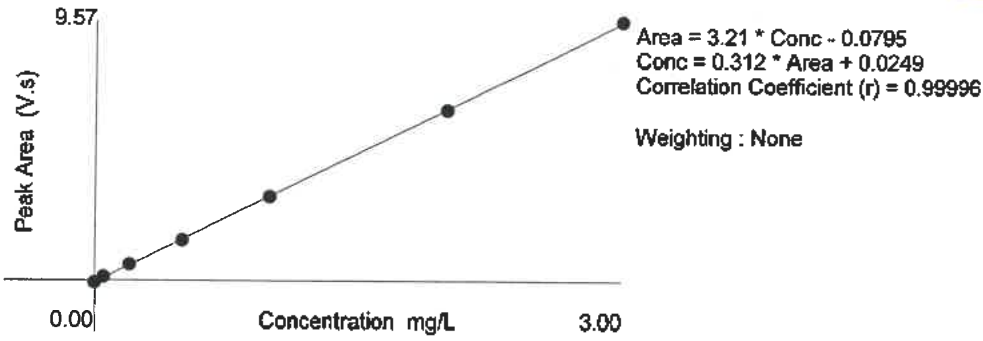
Analyte Properties Table for : OM_2-23-2018_01-13-02PM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.57	0.769	0.0	-0.3	3.01	2/22/2018	5:35:44 PM
2	2.00	1	6.30	0.504	0.0	0.5	1.99	2/22/2018	5:36:53 PM
3	1.00	1	3.10	0.247	0.0	0.9	0.991	2/22/2018	5:38:01 PM
4	0.500	1	1.49	0.118	0.0	1.9	0.491	2/22/2018	5:39:10 PM
5	0.200	1	0.583	0.0460	0.0	-3.9	0.207	2/22/2018	5:40:19 PM
6	0.0500	1	0.122	9.46e-3	0.0	-50.5	0.0628	2/22/2018	5:41:29 PM
7	0.00	1	-0.0872	-5.71e-3			-2.32e-3	2/22/2018	5:42:38 PM

Figure : 1 (Nitrate/Nitrite)



NO₃

401326

Original Run Filename: OM_2-23-2018_03-57-33PM.OMN Created: 2/23/2018 3:57:33 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_2-23-2018_03-57-33PM.OMN Last Modified: 2/23/2018 4:20:29 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

DB
2/23/18

100µl → 5ml
1ml → 5ml

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.43	4.49	0.353	2/23/2018@3:58:17 PM	
CCV	1	S9	1.44	4.53	0.362	2/23/2018@3:59:26 PM	
Known Conc:			100				
Calibration:			Table/Fig.: 1				
CCB	1	S10	-2.27e-3	-0.0870	-6.28e-3	2/23/2018@4:00:34 PM	
Known Conc:			100				
MB	1	S10	-7.80e-3	-0.105	-5.89e-3	2/23/2018@4:01:43 PM	
Known Conc:			100				
LCS	1	S9	1.43	4.52	0.363	2/23/2018@4:02:51 PM	
Known Conc:			100				
480-131516-b-2^50	1	91	1.23	3.86	0.305	2/23/2018@4:04:00 PM	
480-131516-b-4^5	1	92	0.875	2.73	0.215	2/23/2018@4:05:09 PM	
480-131737-b-1	1	93	-4.48e-4	-0.0812	-4.49e-3	2/23/2018@4:06:18 PM	
480-131737-b-4	1	94	4.50e-3	-0.0653	-5.55e-3	2/23/2018@4:07:27 PM	
480-131737-b-5	1	95	0.0380	0.0421	5.29e-3	2/23/2018@4:08:38 PM	
480-131737-b-6	1	96	3.95e-3	-0.0671	-4.41e-3	2/23/2018@4:09:45 PM	
480-131737-b-6 DU	1	97	4.80e-3	-0.0644	-4.98e-3	2/23/2018@4:10:54 PM	
480-131737-b-6 MS	1	98	1.02	3.19	0.242	2/23/2018@4:12:03 PM	
CCV	1	S9	1.47	4.62	0.357	2/23/2018@4:13:11 PM	
Known Conc:			100				
CCB	1	S10	-2.64e-3	-0.0882	-6.10e-3	2/23/2018@4:14:19 PM	
Known Conc:			100				
480-131737-b-8	1	99	3.75e-3	-0.0677	-4.82e-3	2/23/2018@4:15:27 PM	
480-131737-b-8 MS	1	100	1.00	3.13	0.240	2/23/2018@4:16:36 PM	
CCV	1	S9	1.45	4.58	0.351	2/23/2018@4:17:44 PM	
Known Conc:			100				
CCB	1	S10	-0.0268	-0.166	-8.39e-3	2/23/2018@4:18:52 PM	
Known Conc:			100				

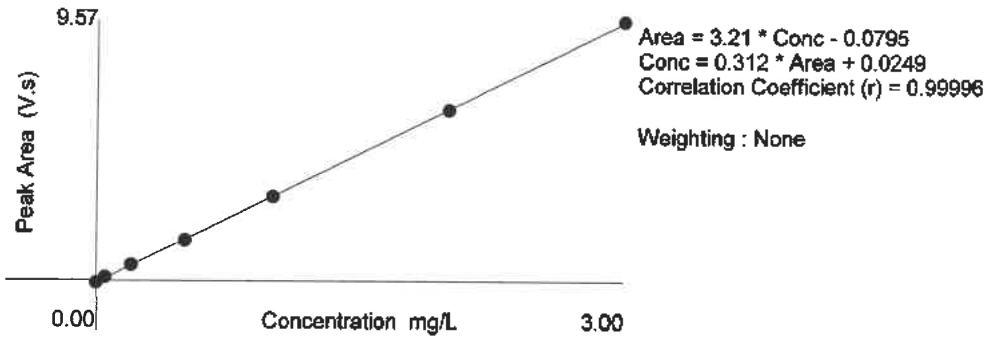
Analyte Properties Table for : OM_2-23-2018_03-57-33PM.OMN

Property	Channel 2
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.57	0.769	0.0	-0.3	3.01	2/22/2018	5:35:44 PM
2	2.00	1	6.30	0.504	0.0	0.5	1.99	2/22/2018	5:36:53 PM
3	1.00	1	3.10	0.247	0.0	0.9	0.991	2/22/2018	5:38:01 PM
4	0.500	1	1.49	0.118	0.0	1.9	0.491	2/22/2018	5:39:10 PM
5	0.200	1	0.583	0.0460	0.0	-3.9	0.207	2/22/2018	5:40:19 PM
6	0.0500	1	0.122	9.46e-3	0.0	-50.5	0.0628	2/22/2018	5:41:29 PM
7	0.00	1	-0.0872	-5.71e-3			-2.32e-3	2/22/2018	5:42:38 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_2-23-2018_04-54-34PM.OMN Created: 2/23/2018 4:54:34 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_2-23-2018_04-54-34PM.OMN Last Modified: 2/23/2018 5:38:00 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

NO₂

401336

DB
2/23/18

i)nd -> 5m L
o)nd -> 5m L

i) -> 5m L
↓

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.49	4.93	0.433	2/23/2018@4:55:39 PM	
Known Conc:			100				
Calibration:			Table/Fig. : 1				
CCB	1	S10	-6.34e-3	-0.0679	-6.48e-3	2/23/2018@4:56:45 PM	
Known Conc:			100				
MB	1	S10	-3.21e-4	-0.0478	-6.04e-3	2/23/2018@4:57:51 PM	
Known Conc:			100				
LCS	1	S11	1.47	4.87	0.424	2/23/2018@4:58:58 PM	
Known Conc:			100				
480-131691-p-1	1	1	-0.0195	-0.112	-8.07e-3	2/23/2018@5:00:05 PM	
480-131691-p-1 DU	1	2	-3.01e-3	-0.0568	-5.31e-3	2/23/2018@5:01:12 PM	
480-131691-p-1 MS	1	3	1.01	3.33	0.291	2/23/2018@5:02:19 PM	
480-131691-p-2	1	4	-4.82e-3	-0.0628	-6.13e-3	2/23/2018@5:03:26 PM	
480-131691-p-3	1	5	0.0382	0.0813	0.0120	2/23/2018@5:04:32 PM	
480-131691-p-4	1	6	-8.39e-3	-0.0748	-6.18e-3	2/23/2018@5:05:39 PM	
480-131704-f-1^100	1	7	-0.0124	-0.0884	-5.97e-3	2/23/2018@5:06:45 PM	
480-131704-f-1^50	1	8	-8.83e-3	-0.0763	-0.0138	2/23/2018@5:07:51 PM	
CCV	1	S11	1.49	4.95	0.440	2/23/2018@5:08:58 PM	
Known Conc:			100				
CCB	1	S10	-0.0128	-0.0896	-7.06e-3	2/23/2018@5:10:04 PM	
Known Conc:			100				
480-131708-e-2	1	9	0.294	0.939	0.0836	2/23/2018@5:11:10 PM	
480-131708-e-2	1	10	0.298	0.952	0.0806	2/23/2018@5:12:16 PM	
480-131709-d-1	1	11	-6.34e-3	-0.0679	-5.92e-3	2/23/2018@5:13:22 PM	
480-131714-f-1	1	12	-2.28e-3	-0.0543	-4.94e-3	2/23/2018@5:14:28 PM	
480-131714-f-2	1	13	0.133	0.397	0.0328	2/23/2018@5:15:33 PM	
480-131714-f-2 MS	1	14	1.19	3.93	0.341	2/23/2018@5:16:39 PM	
480-131721-g-1	1	15	1.19	3.93	0.343	2/23/2018@5:17:44 PM	
480-131721-g-2	1	16	0.317	1.01	0.0846	2/23/2018@5:18:51 PM	
480-131704-f-1^2	1	17	7.35e-3	-0.0221	-3.35e-3	2/23/2018@5:19:58 PM	
480-131704-f-1^2	1	18	-9.50e-4	-0.0499	-7.48e-3	2/23/2018@5:21:05 PM	
CCV	1	S11	1.49	4.95	0.433	2/23/2018@5:22:12 PM	
Known Conc:			100				
CCB	1	S10	-7.30e-3	-0.0711	-5.91e-3	2/23/2018@5:23:18 PM	
Known Conc:			100				
MB	1	S10	-0.0106	-0.0823	-6.82e-3	2/23/2018@5:24:24 PM	
Known Conc:			100				
LCS	1	S11	1.49	4.95	0.436	2/23/2018@5:25:30 PM	
Known Conc:			100				
480-131714-f-2	1	19	0.136	0.409	0.0339	2/23/2018@5:26:37 PM	
480-131721-g-1	1	20	1.17	3.88	0.345	2/23/2018@5:27:44 PM	
480-131721-g-2	1	21	0.334	1.07	0.0885	2/23/2018@5:28:50 PM	
480-131704-f-1	1	22	0.0435	0.0989	7.17e-3	2/23/2018@5:29:57 PM	
480-131704-f-1 DU	1	23	0.0448	0.103	7.19e-3	2/23/2018@5:31:03 PM	
480-131704-f-1 MS	1	24	1.15	3.79	0.424	2/23/2018@5:32:09 PM	
CCV	1	S11	1.26	4.16	0.437	2/23/2018@5:33:16 PM	
Known Conc:			100				
CCB	1	S10	-0.0169	-0.103	-6.97e-3	2/23/2018@5:34:22 PM	
Known Conc:			100				
CCV	1	S11	1.49	4.94	0.439	2/23/2018@5:35:28 PM	
Known Conc:			100				
CCB	1	S10	-0.0208	-0.116	-7.01e-3	2/23/2018@5:36:34 PM	
Known Conc:			100				

Analyte Properties Table for : OM_2-23-2018_04-54-34PM.OMN

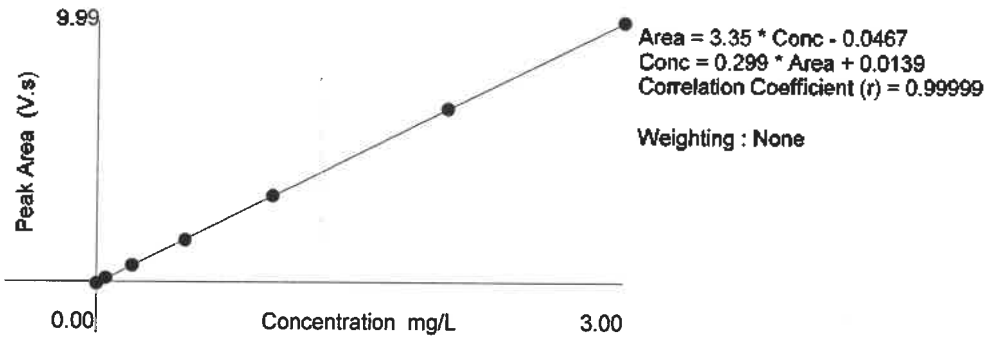
Property	Channel 2
	Nitrite

Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	10
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.99	0.886	0.0	0.0	3.00	2/23/2018	4:43:37 PM
2	2.00	1	6.66	0.594	0.0	-0.1	2.00	2/23/2018	4:44:43 PM
3	1.00	1	3.31	0.293	0.0	-0.3	1.00	2/23/2018	4:45:50 PM
4	0.500	1	1.61	0.142	0.0	0.9	0.496	2/23/2018	4:46:56 PM
5	0.200	1	0.628	0.0557	0.0	-0.8	0.202	2/23/2018	4:48:03 PM
6	0.0500	1	0.140	0.0116	0.0	-15.8	0.0557	2/23/2018	4:49:10 PM
7	0.00	1	-0.0568	-5.87e-3			-6.01e-3	2/23/2018	4:50:17 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 401321

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail	
									3-Sigma Limits	Client Limits
480-131302-B-1	SPRING 1	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.5	<input type="checkbox"/>	<input type="checkbox"/>
480-131588-F-7	MW-6R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.091	<input type="checkbox"/>	<input type="checkbox"/>
480-131708-E-2 ^10EFFLUENT		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	10.0	12	<input type="checkbox"/>	<input type="checkbox"/>
480-131714-F-1	MW314A	353.2	Nitrate Nitrite as N	Total/NA	mg/L	7	1.0	0.65 <i>0.658</i>	<input type="checkbox"/>	<input type="checkbox"/>
480-131714-F-2	MW314B	353.2	Nitrate Nitrite as N	Total/NA	mg/L	7	1.0	<u>0.18</u> <i>0.172</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
480-131721-G-1	MH20_Comp	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.7	<input type="checkbox"/>	<input type="checkbox"/>
480-131721-G-2	MH21_Comp	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.45	<input type="checkbox"/>	<input type="checkbox"/>

*confirmed
same batch*

Historical Data Summary Report

For Batch 401336

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data			Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution	Result		
480-131708-E-2	EFFLUENT	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.29	<input type="checkbox"/> 0.146 - 0.779	<input type="checkbox"/> 0.264 - 0.792
480-131714-F-1	MW314A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	7	1.0	ND	<input type="checkbox"/> 0 - 0.24	<input type="checkbox"/> 0 - 0.192
480-131714-F-2	MW314B	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	7	1.0	0.13 <u>0.136</u>	<input checked="" type="checkbox"/> 0 - 0.103	<input checked="" type="checkbox"/> 0 - 0.076
480-131721-G-1	MH20_Comp	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	1.2	<input type="checkbox"/> 0 - 2.02	<input type="checkbox"/> 0.248 - 1.8
480-131721-G-2	MH21_Comp	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.32	<input type="checkbox"/> 0 - 1.644	<input type="checkbox"/> 0 - 1.56

Ion Chromatography Data Review Checklist

LIMS Batch Number: 4007236	Work List Number: 69378	Instrument ID (circle one): IC1 <input type="checkbox"/> IC2 <input checked="" type="checkbox"/> IC3 <input type="checkbox"/> IC4 <input type="checkbox"/>
Analyst/1 st Reviewer: CA	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y		✓	
2. Elution order of analytes in ICAL confirmed to be correct		Y		✓	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < ½ RL (314.0 or special projects)		Y		✓	
4. ICV, second source: run before samples 90-110% recovery		Y		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)	~A			N/A	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project)		Y		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	~A			N/A	If no, list details:
8. Pk Area:Height Difference (314.0 PD _{AH}): Before samples <25%	~A			N/A	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?	~A			N/A	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < ½ RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:	~A			N/A	<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:	~A			N/A	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:	NA			NA	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%	NA			NA	

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	NA		NA	
b. All crossed out data is initialed and dated	NA		NA	
c. Out of control QC is clearly identified	NA		NA	
d. Any data that has a qualifier tick is commented on with appropriate action taken	NA		NA	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		✓	
16. Run Log				
a. Unused data is clearly identified	NA		NA	
b. All crossed out data is initialed and dated	NA		NA	
c. Analyst initials/signature provided	Y		✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	NA		NA	
b. Method and matrix are correct	NA		NA	
c. Date and time match raw data	Y		✓	
d. Dilutions are correct	NA		NA	
e. Correct suffix designated (where applicable)	NA		NA	
18. TALS Worksheet Tab is complete and correct	Y		✓	
19. TALS Reagent Tab is complete and correct	Y		✓	
20. TALS QC Links Tab is correct	NA		NA	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	NA		NA	
b. All reported analytes are marked Primary or Secondary	NA		NA	
22. TALS Batch Information Screen documentation is complete	Y		✓	
23. TALS Status set to appropriate review level	Y		✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			NA	
25. Results for samples and QC correct on final report?			NA	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			NA	

2nd Reviewer: MJP Review Date: 9/21/13

Comments: _____

TeslaAmerica Laboratories
 Worklist Report

Worklist Name: 20180220BICAL
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\B\Buffalo\ChromData\IC-2\20180220-69378.b
 Upload Directory: \\CorpTALSAPP1\7480-BF-RawData\Organics\MS\IC-2

Worklist Number: 69378
 Chrom Method: IC2-300
 Units: ul

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069378-001	# 1 Blank BLANK		Client			5.000	mL	1.000
480-0069378-002	# 2 IC - STD1	IC_ANION_STD_00032	IC	1	2.5 SV	5.000	mL	1.000
480-0069378-003	# 3 IC - STD2	IC_ANION_STD_00032	IC	2	1.5 SV	5.000	mL	1.000
480-0069378-004	# 4 IC - STD3	IC_ANION_STD_00032	IC	3	2.5 SV	5.000	mL	1.000
480-0069378-005	# 5 IC - STD4	IC_ANION_STD_00032	IC	4	1.5 SV	5.000	mL	1.000
480-0069378-006	# 6 IC - STD5	IC_ANION_STD_00032	IC	5	2.5 SV	5.000	mL	1.000
480-0069378-007	# 7 IC - STD6	IC_ANION_STD_00032	IC	6	2.5 SV	5.000	mL	1.000
480-0069378-008	# 8 ICV	ICERA_00014	ICV		2.5 SV	5.000	mL	1.000
480-0069378-009	# 9 ICB		ICB		2.5 SV	5.000	mL	1.000

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No.Compounds:5

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.583	2.580	2.583	2.597	2.610	2.617	2.595	0.596	2.610
2 Chloride	3.367	3.363	3.363	3.363	3.360	3.353	3.362	0.137	3.360
3 Bromide	4.740	4.737	4.737	4.727	4.703	4.663	4.718	0.633	4.703
5 Sulfate	5.300	5.300	5.290	5.240	5.167	5.097	5.232	1.605	5.167

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b

Inj Date : 20-Feb-2018 17:10:39, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	77500	73805	70490	64267	59994	55876	823	63173		WLinr	9.5	0.991	
	-3.4	10.3	9.0	1.1	-5.3	-11.7							
2 Chloride	37930	38083	37558	37213	37901	38275		37827		WAvg	1.0		
	0.3	0.7	-0.7	-1.6	0.2	1.2							
3 Bromide	17940	13335	12026	12208	12090	11210	313	11685		WLinr	3.3	0.999	
	0.0	0.7	-2.4	3.1	2.9	-4.3							
5 Sulfate	74590	47513	38311	31876	31066	31150	24913	30874		WLinr	12.6	0.999	
	-19.8	13.5	7.9	-0.8	-1.0	0.1							

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No. Compounds: 5

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.583	2.580	2.583	2.597	2.610	2.617	2.595	0.596	2.610
2 Chloride	3.367	3.363	3.363	3.363	3.360	3.353	3.362	0.137	3.360
3 Bromide	4.740	4.737	4.737	4.727	4.703	4.663	4.718	0.633	4.703
5 Sulfate	5.300	5.300	5.290	5.240	5.167	5.097	5.232	1.605	5.167

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b

Inj Date : 20-Feb-2018 17:10:39, Sublist: chrom-IC2-300*sub2

Limit Group: MB SM4110B ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	77500	73805	70490	64267	59994	55876	823	63173		WLinr	9.5	0.991	
	-3.4	10.3	9.0	1.1	-5.3	-11.7							
2 Chloride	37930	38083	37558	37213	37901	38275		37827		WAvg	1.0		
	0.3	0.7	-0.7	-1.6	0.2	1.2							
3 Bromide	17940	13335	12026	12208	12090	11210	313	11685		WLinr	3.3	0.999	
	0.0	0.7	-2.4	3.1	2.9	-4.3							
5 Sulfate	74590	47513	38311	31876	31066	31150	24913	30874		WLinr	12.6	0.999	
	-19.8	13.5	7.9	-0.8	-1.0	0.1							

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No.Compounds:5

Limit Group: MB 9056 ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.583	2.580	2.583	2.597	2.610	2.617	2.595	0.596	2.610
2 Chloride	3.367	3.363	3.363	3.363	3.360	3.353	3.362	0.137	3.360
3 Bromide	4.740	4.737	4.737	4.727	4.703	4.663	4.718	0.633	4.703
5 Sulfate	5.300	5.300	5.290	5.240	5.167	5.097	5.232	1.605	5.167

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b

Inj Date : 20-Feb-2018 17:10:39, Sublist: chrom-IC2-300*sub2

Limit Group: MB 9056 ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	77500	73805	70490	64267	59994	55876	823	63173		WLinr	9.5	0.991	
	-3.4	10.3	9.0	1.1	-5.3	-11.7							
2 Chloride	37930	38083	37558	37213	37901	38275		37827		WAvg	1.0		
	0.3	0.7	-0.7	-1.6	0.2	1.2							
3 Bromide	17940	13335	12026	12208	12090	11210	313	11685		WLinr	3.3	0.999	
	0.0	0.7	-2.4	3.1	2.9	-4.3							
5 Sulfate	74590	47513	38311	31876	31066	31150	24913	30874		WLinr	12.6	0.999	
	-19.8	13.5	7.9	-0.8	-1.0	0.1							

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 21-Feb-2018 09:44:15

No. Compounds: 5

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
4 Nitrate as N	4.983	4.977	4.973	4.947	4.900	4.843	4.937	1.120	4.900

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m

Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpdn Order: Retention Time
 Integrator: Falcon Last Modified: 21-Feb-2018 09:44:15
 No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b
 Inj Date : 20-Feb-2018 17:10:39, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	M2	Curve	Rse/ Rsd	R^2/ COD	Flags
4 Nitrate as N	81780	84450	85186	82014	79090	75712	842	77471		WLn	9.6	0.999	
	-16.2	3.6	7.8	5.3	1.9	-2.4							

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_333.d
 Lims ID: IC - STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Feb-2018 17:10:39 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 333 Name: IC - STD1
 Misc. Info.: Study: 480-0069378-002 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Feb-2018 11:18:11 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK048

First Level Reviewer: abramoc Date: 21-Feb-2018 09:06:25

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.583	2.610	-0.027	3875	0.0500	0.0483	M
2 Chloride						M
3.367	3.360	0.007	18965	0.5000	0.5014	M
3 Bromide						M
4.740	4.703	0.037	897	0.0500	0.0500	M
4 Nitrate as N						Ma
4.983	4.900	0.083	4089	NC	NC	M
5 Sulfate						M
5.300	5.167	0.133	37295	0.5000	0.4010	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

IC_ANION_STD_00032 Amount Added: 2.50 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_333.d

Injection Date: 20-Feb-2018 17:10:39

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD1

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

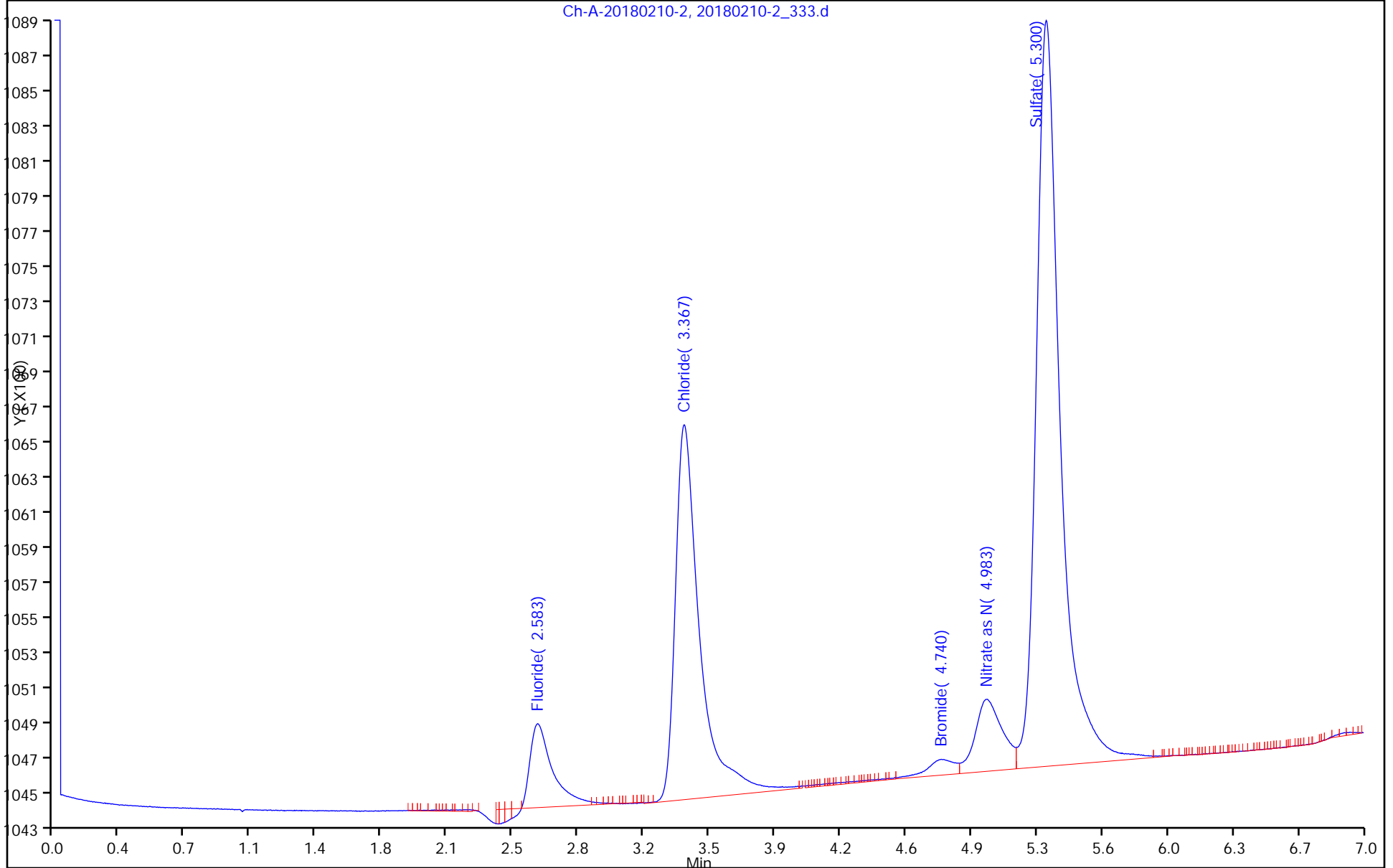
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180210-2, 20180210-2_333.d



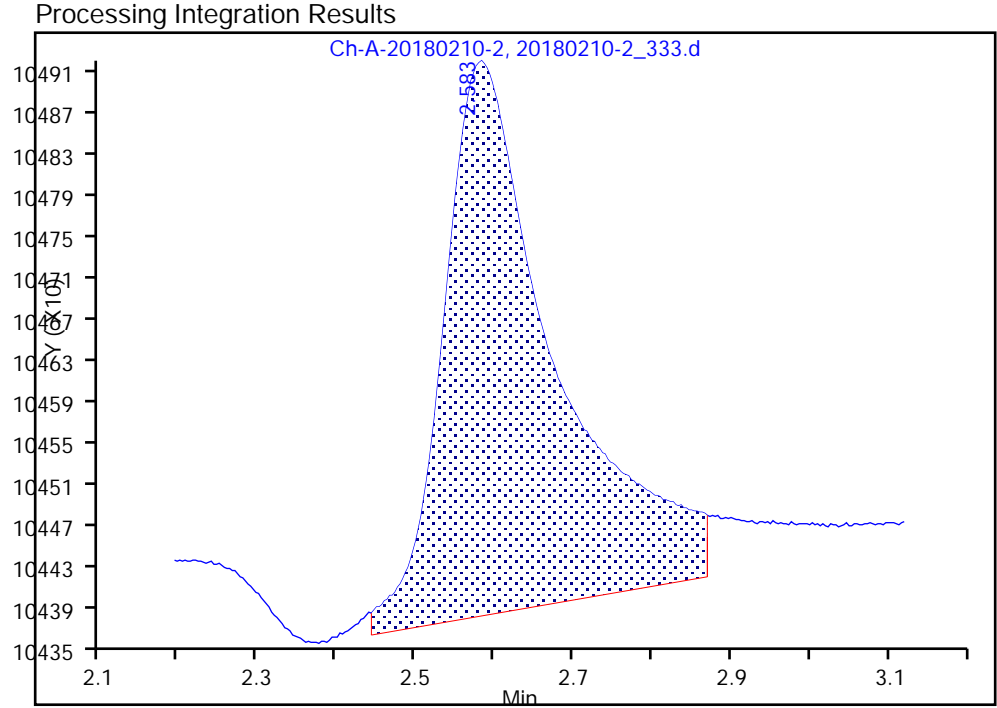
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_333.d
Injection Date: 20-Feb-2018 17:10:39 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

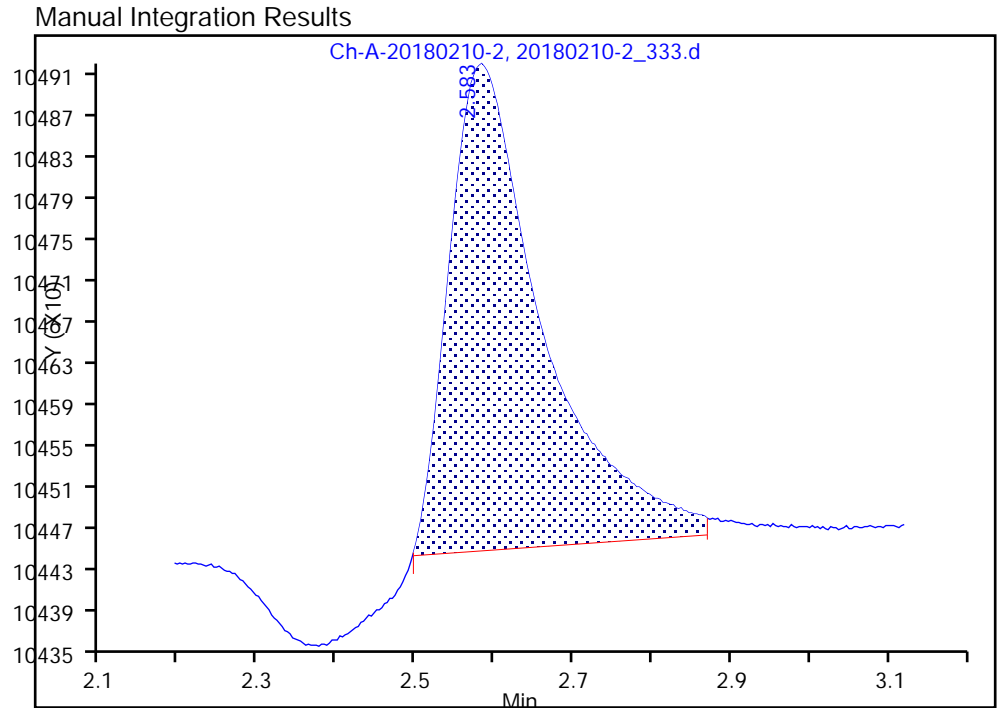
1 Fluoride, CAS: 16984-48-8

Signal: 1

RT: 2.58
Area: 5290
Amount: 0.048664
Amount Units: ng/uL



RT: 2.58
Area: 3875
Amount: 0.048304
Amount Units: ng/uL



Reviewer: abramoc, 21-Feb-2018 09:03:42
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

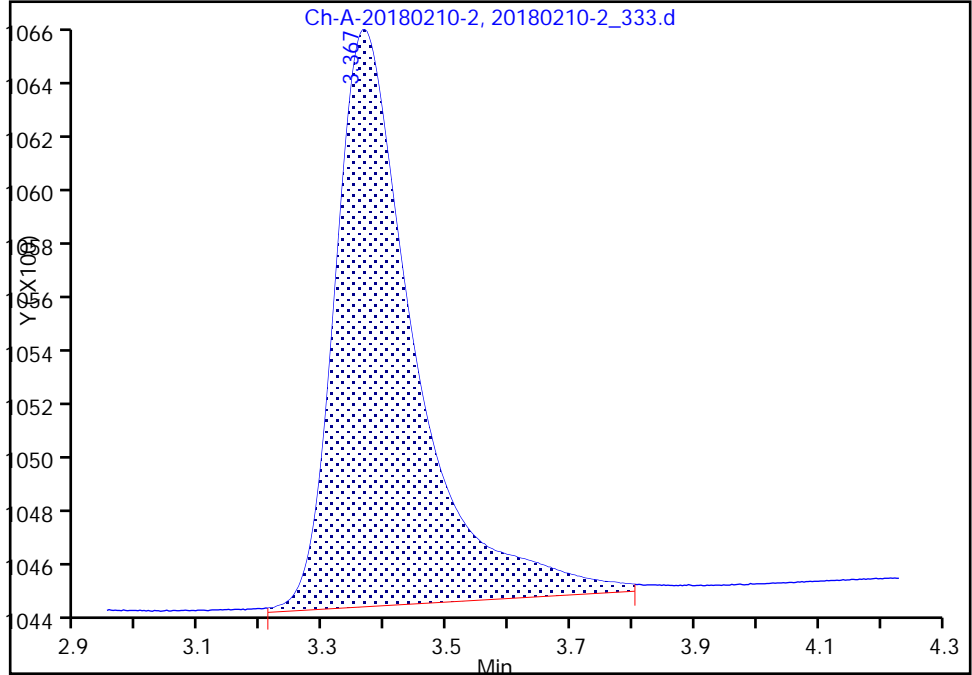
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_333.d
Injection Date: 20-Feb-2018 17:10:39 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

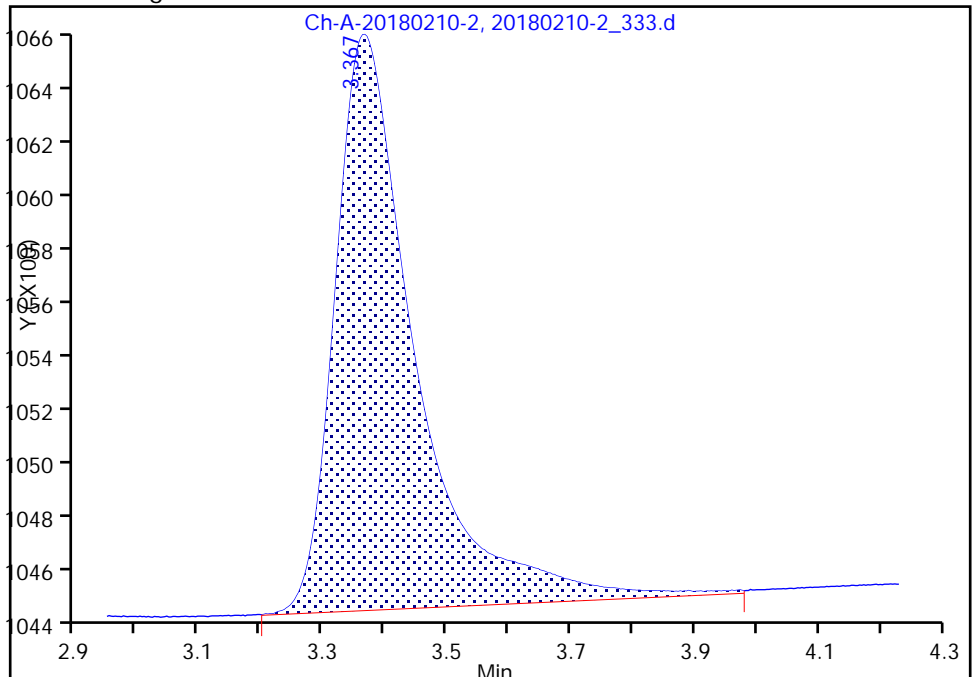
RT: 3.37
Area: 18921
Amount: 0.502042
Amount Units: ng/uL

Processing Integration Results



RT: 3.37
Area: 18965
Amount: 0.501367
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:15:22

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

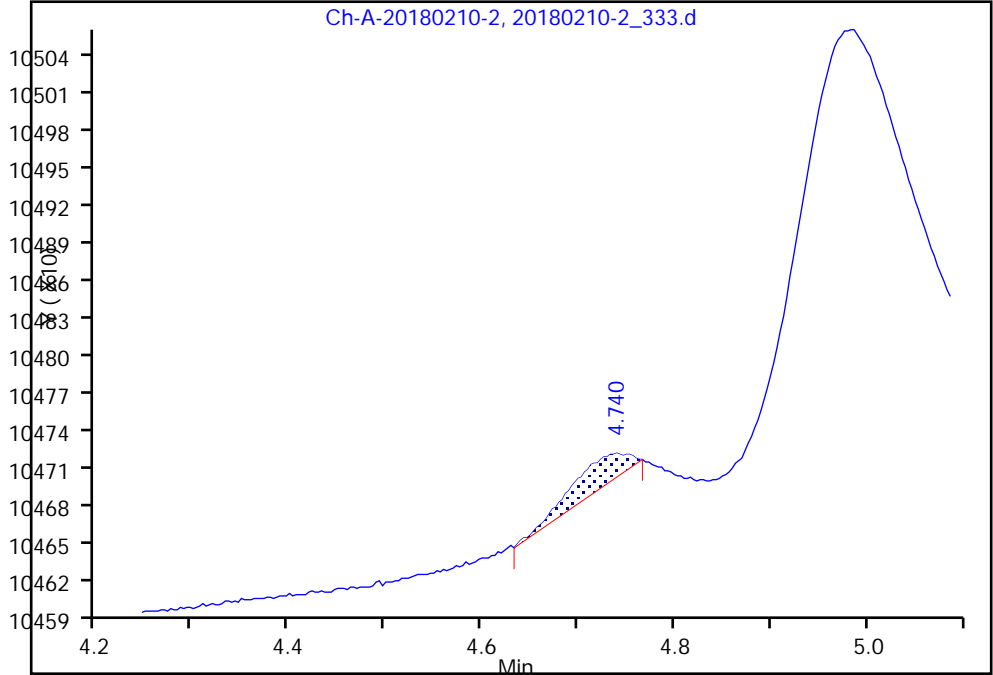
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_333.d
Injection Date: 20-Feb-2018 17:10:39 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

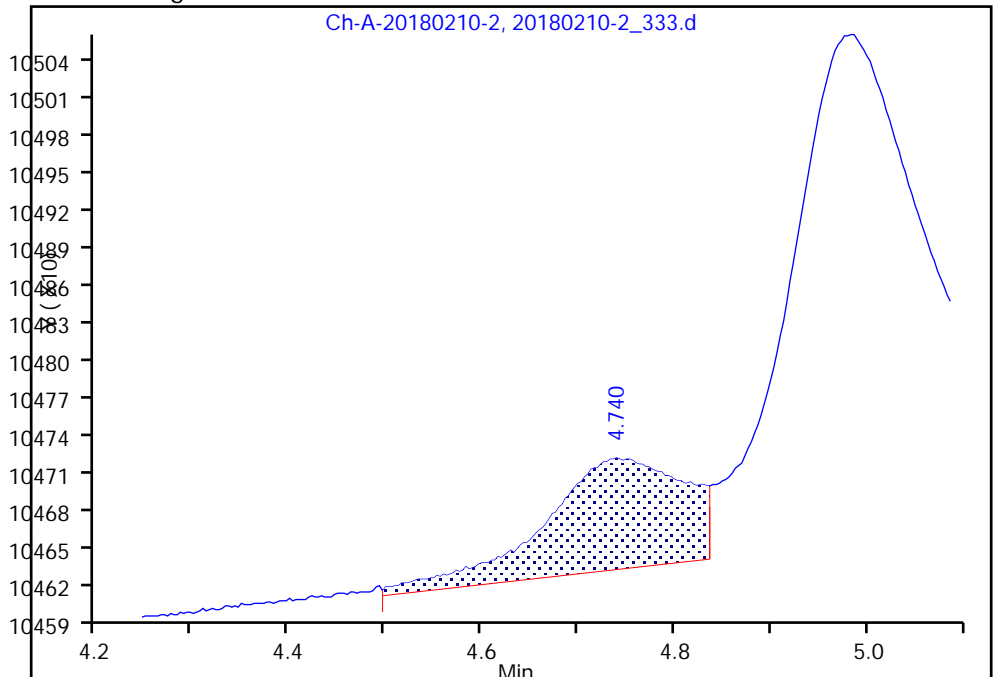
RT: 4.74
Area: 98
Amount: 0.048339
Amount Units: ng/uL

Processing Integration Results



RT: 4.74
Area: 897
Amount: 0.049987
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:06:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

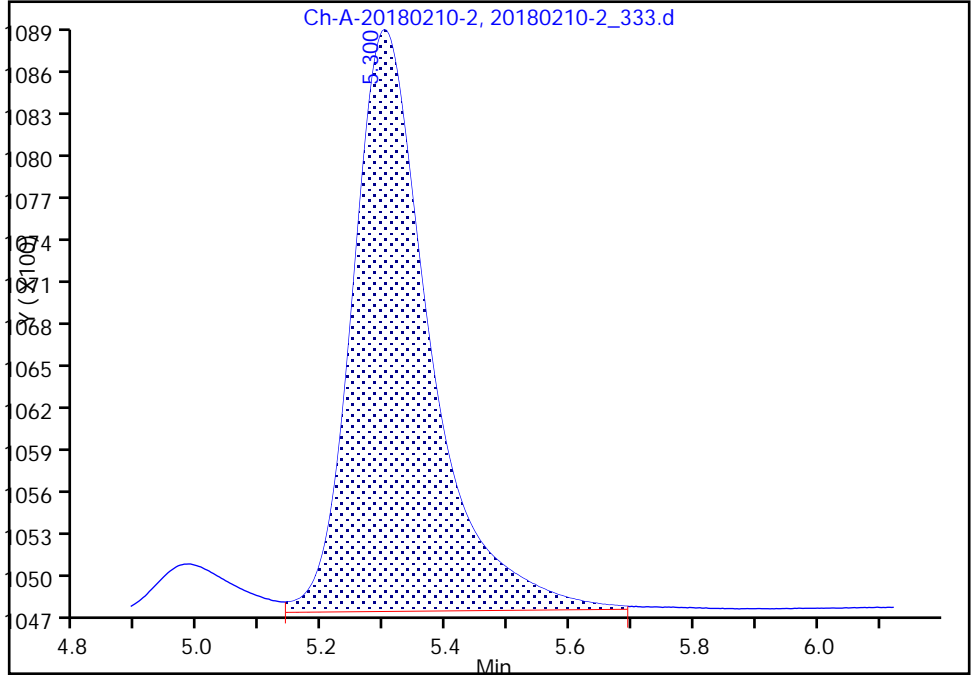
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_333.d
Injection Date: 20-Feb-2018 17:10:39 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

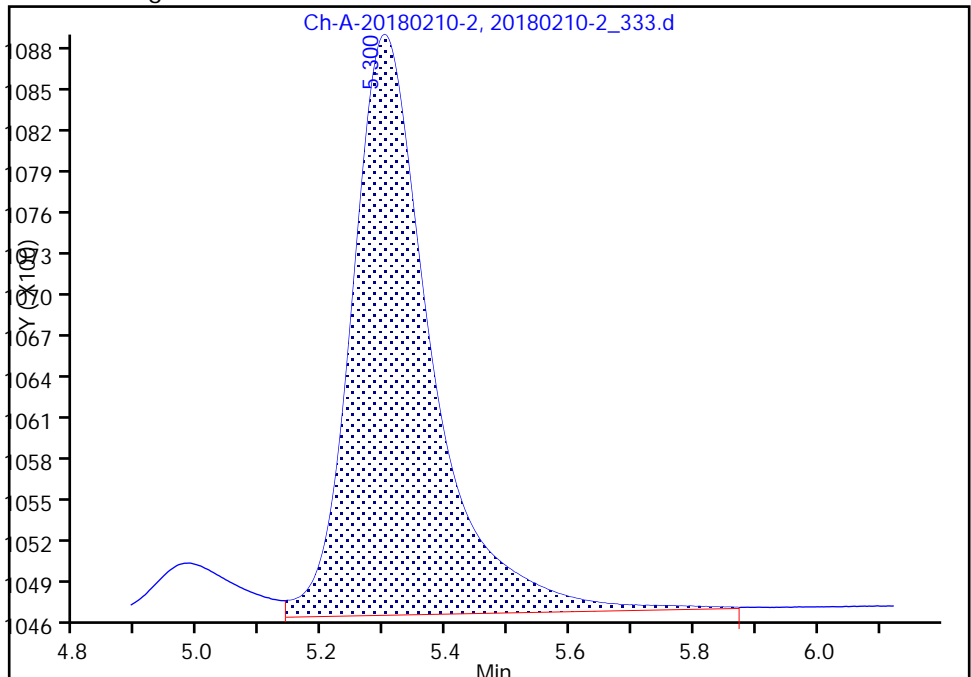
RT: 5.30
Area: 35970
Amount: 0.482279
Amount Units: ng/uL

Processing Integration Results



RT: 5.30
Area: 37295
Amount: 0.401030
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:06:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_334.d
 Lims ID: IC - STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-Feb-2018 17:18:47 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 334 Name: IC - STD2
 Misc. Info.: Study: 480-0069378-003 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Feb-2018 11:18:14 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK048

First Level Reviewer: abramoc Date: 21-Feb-2018 09:07:18

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.580	2.610	-0.030	14761	0.2000	0.2206	M
2 Chloride						M
3.363	3.360	0.003	76166	2.00	2.01	M
3 Bromide						M
4.737	4.703	0.034	2667	0.2000	0.2015	M
4 Nitrate as N						M
4.977	4.900	0.077	16890	NC	NC	M
5 Sulfate						M
5.300	5.167	0.133	95026	2.00	2.27	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00032 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_334.d

Injection Date: 20-Feb-2018 17:18:47

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD2

Worklist Smp#: 3

Client ID:

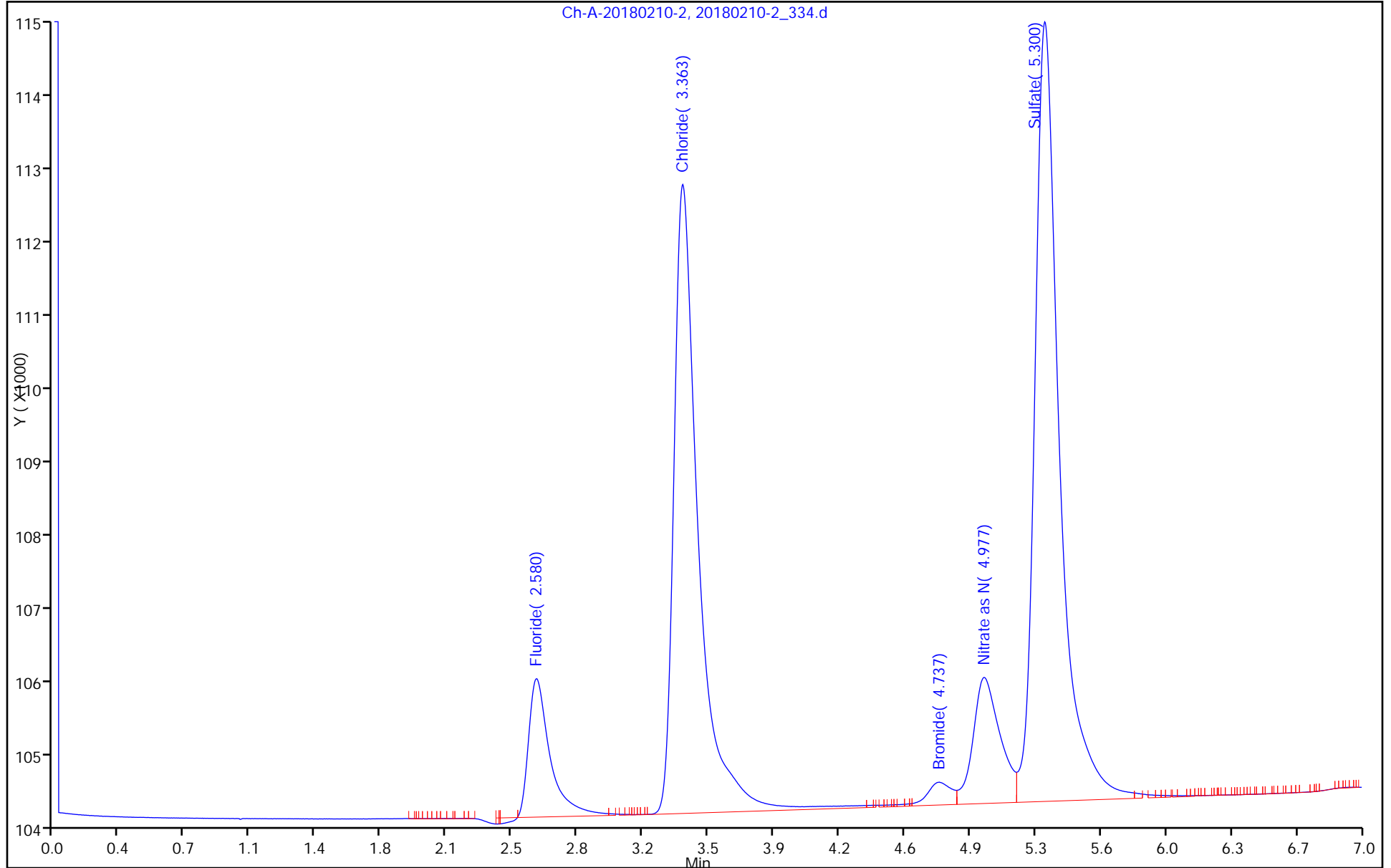
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

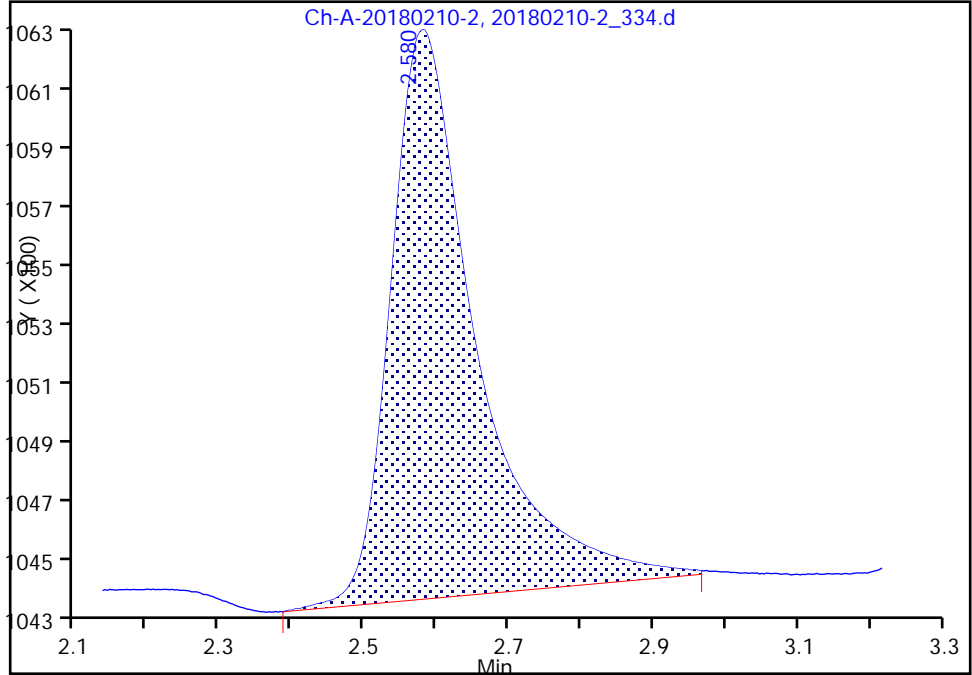
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_334.d
Injection Date: 20-Feb-2018 17:18:47 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

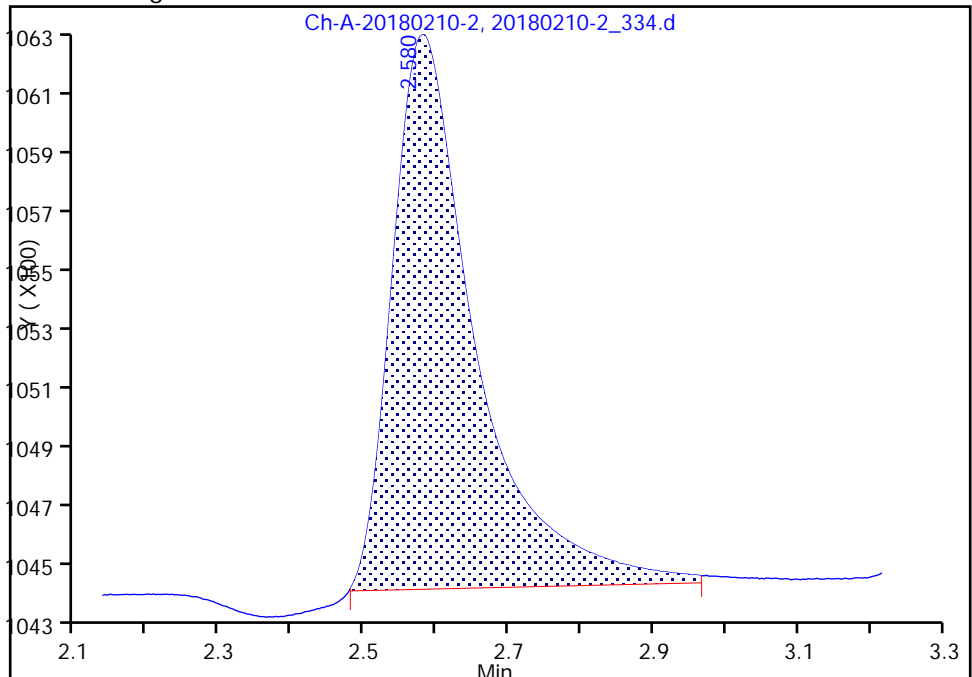
RT: 2.58
Area: 15643
Amount: 0.227639
Amount Units: ng/uL

Processing Integration Results



RT: 2.58
Area: 14761
Amount: 0.220624
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:07:03
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

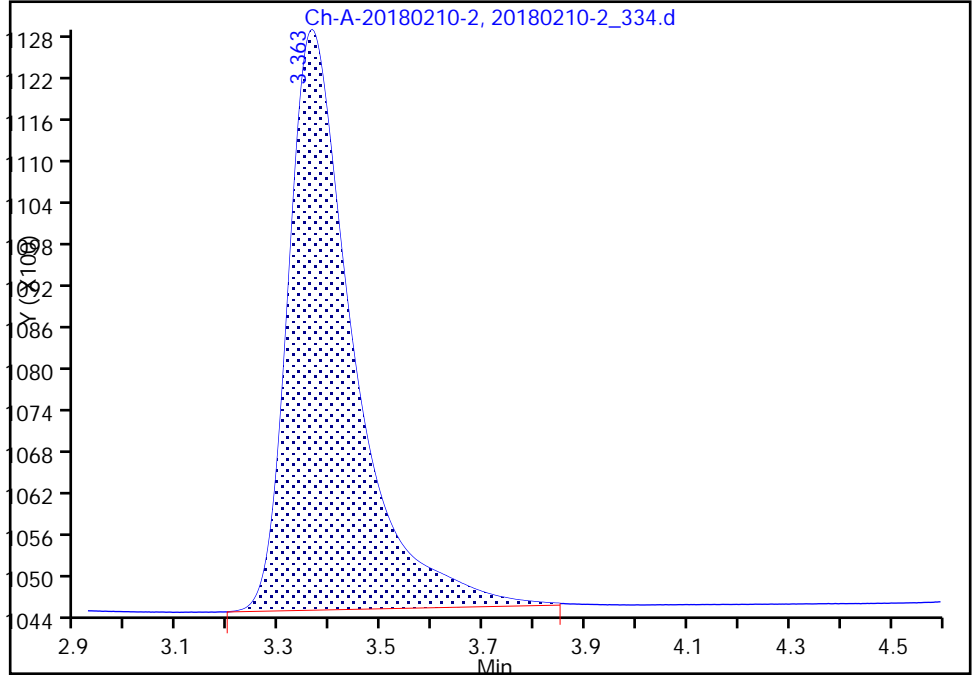
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_334.d
Injection Date: 20-Feb-2018 17:18:47 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

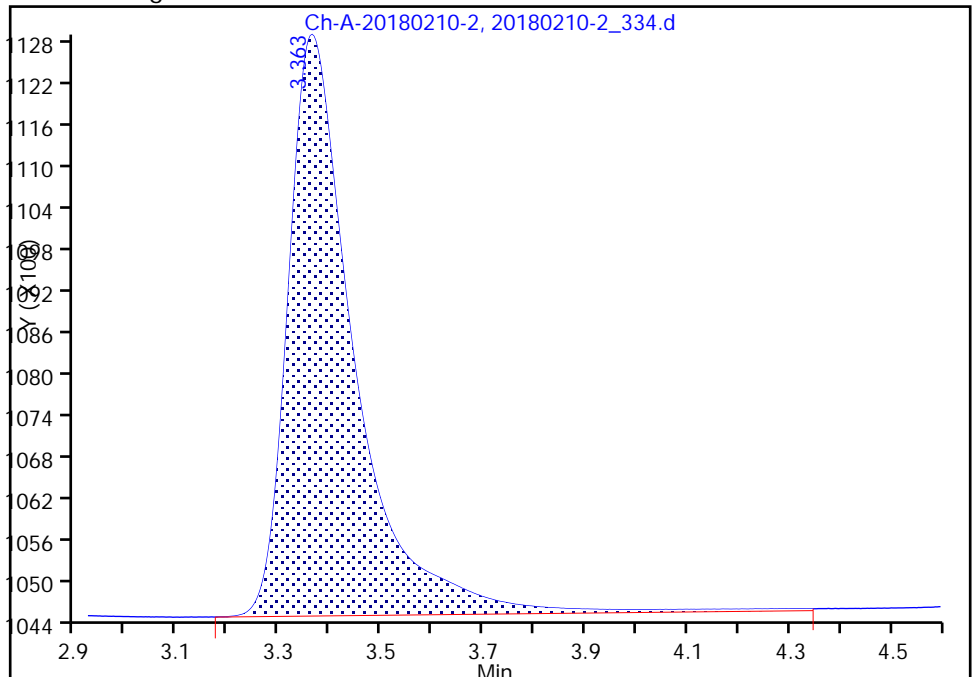
RT: 3.36
Area: 74028
Amount: 1.968633
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 76166
Amount: 2.013557
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:14:17
Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

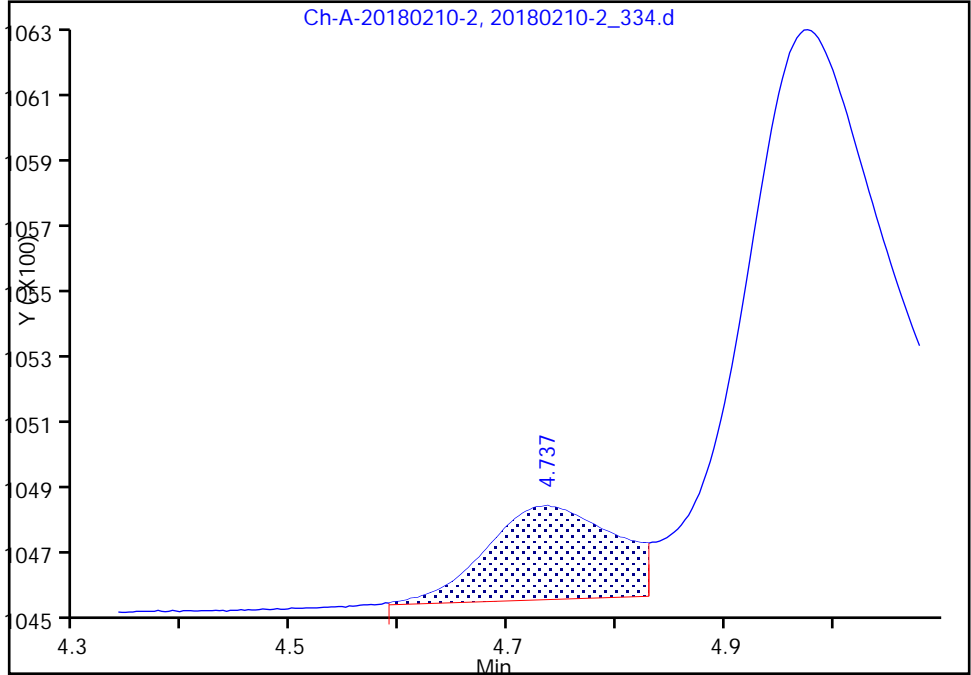
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_334.d
Injection Date: 20-Feb-2018 17:18:47 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

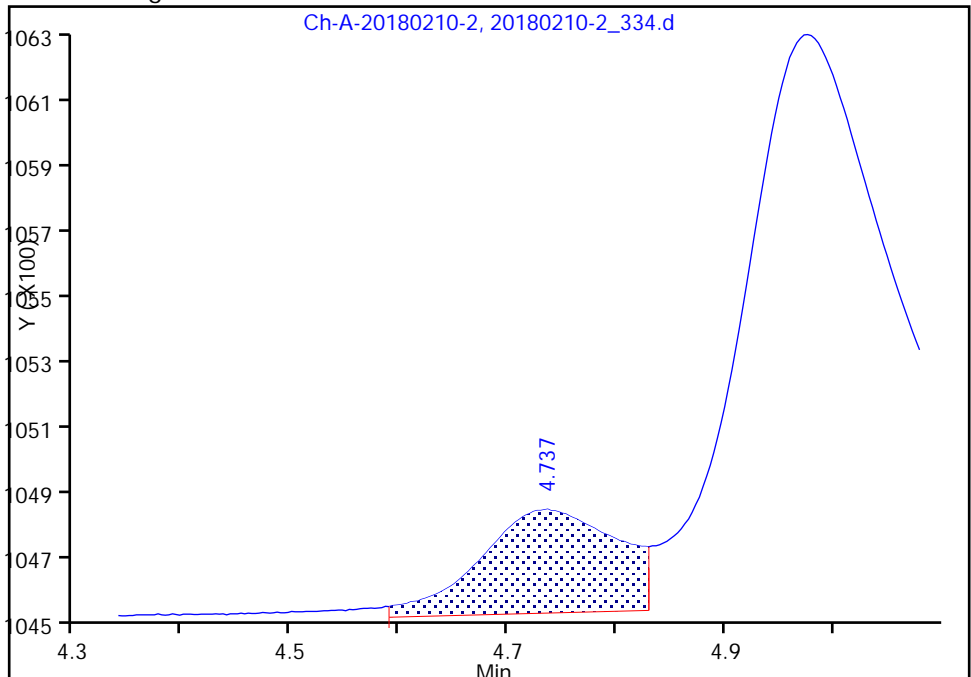
RT: 4.74
Area: 2257
Amount: 0.170981
Amount Units: ng/uL

Processing Integration Results



RT: 4.74
Area: 2667
Amount: 0.201465
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:06:53

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

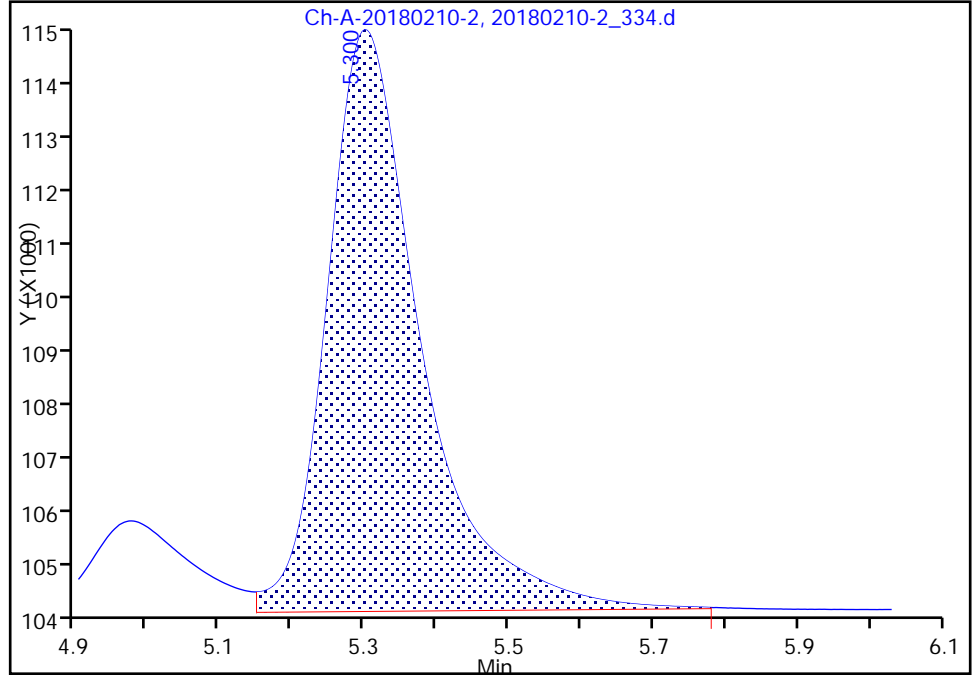
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_334.d
Injection Date: 20-Feb-2018 17:18:47 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

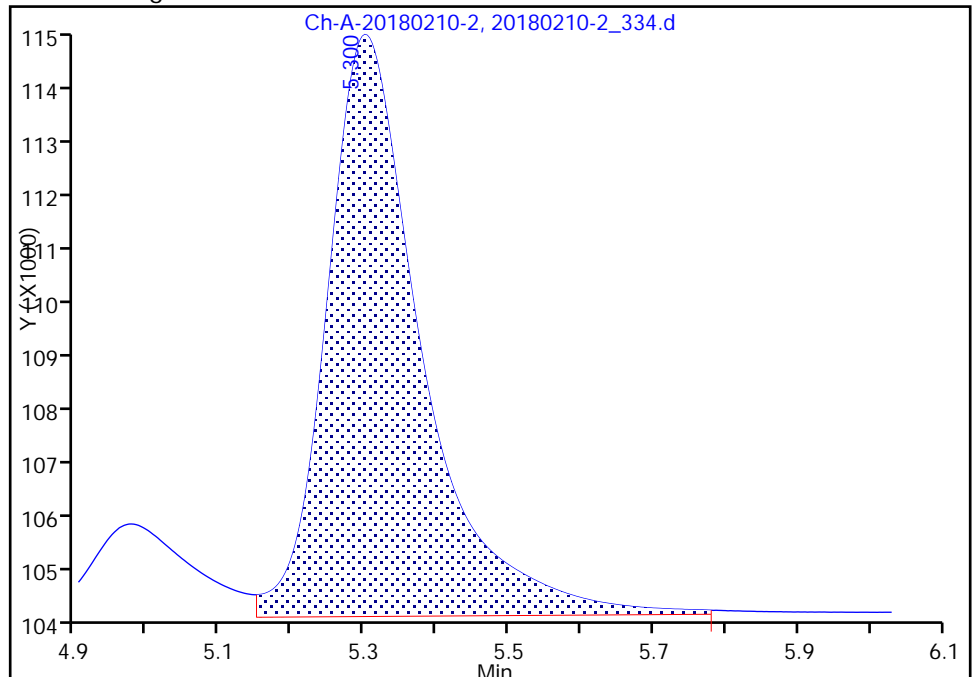
RT: 5.30
Area: 93344
Amount: 2.225528
Amount Units: ng/uL

Processing Integration Results



RT: 5.30
Area: 95026
Amount: 2.270893
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:06:53
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_335.d
 Lims ID: IC - STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Feb-2018 17:26:56 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 335 Name: IC - STD3
 Misc. Info.: Study: 480-0069378-004 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Feb-2018 11:18:20 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK048

First Level Reviewer: abramoc Date: 21-Feb-2018 09:08:18

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.583	2.610	-0.027	35245	0.5000	0.5449	M
2 Chloride						M
3.363	3.360	0.003	187788	5.00	4.96	M
3 Bromide						M
4.737	4.703	0.034	6013	0.5000	0.4878	M
4 Nitrate as N						M
4.973	4.900	0.073	42593	NC	NC	M
5 Sulfate						M
5.290	5.167	0.123	191556	5.00	5.40	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00032 Amount Added: 25.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_335.d

Injection Date: 20-Feb-2018 17:26:56

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD3

Worklist Smp#: 4

Client ID:

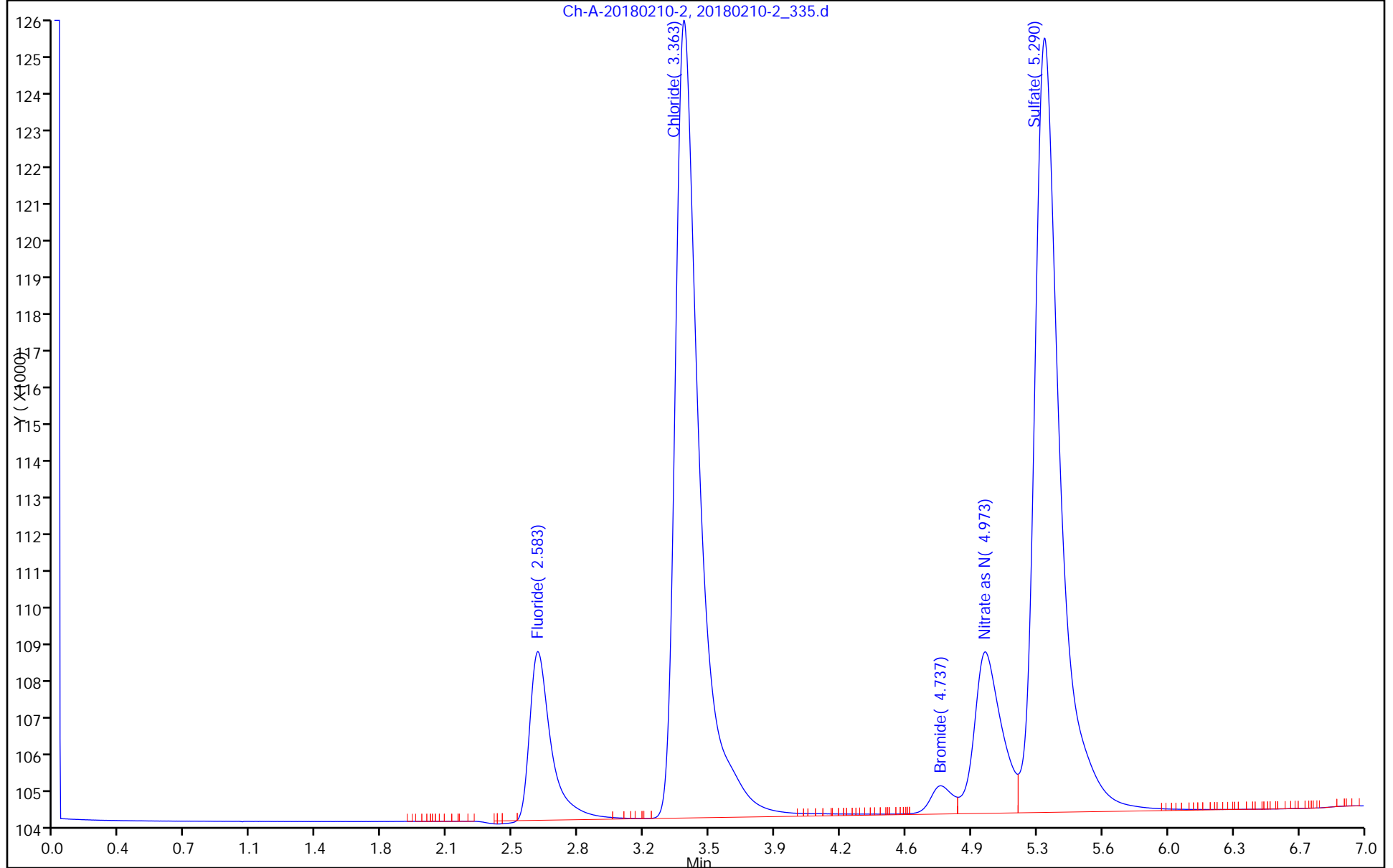
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

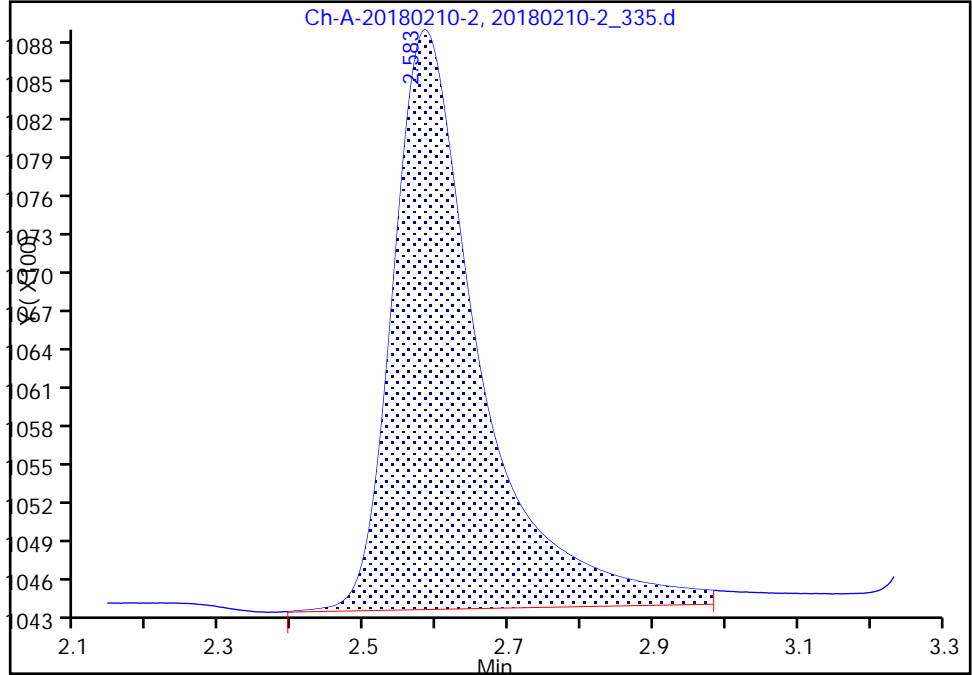
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_335.d
Injection Date: 20-Feb-2018 17:26:56 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

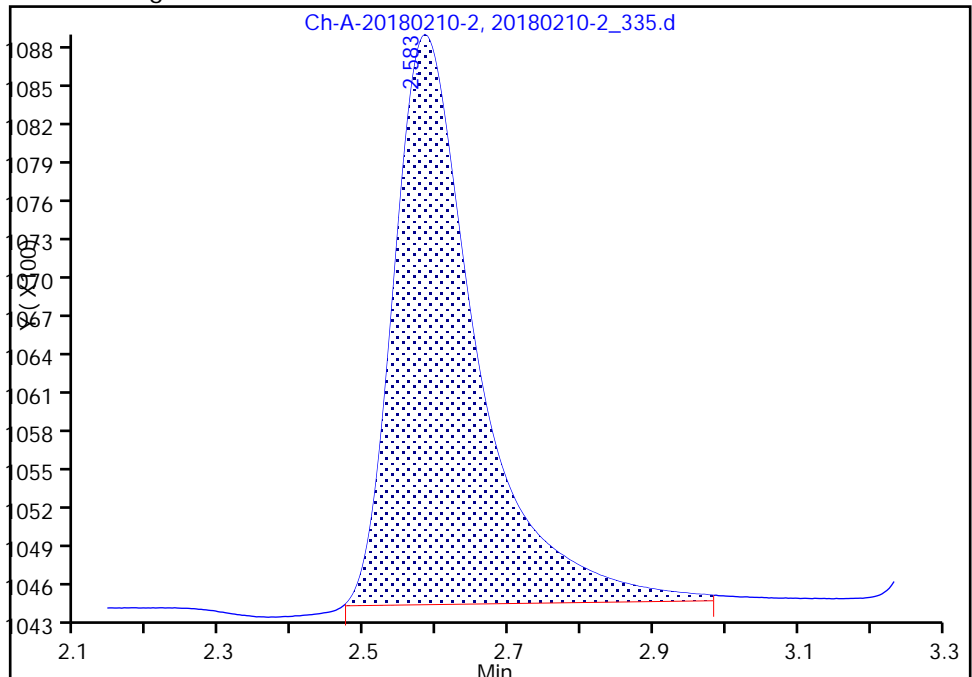
RT: 2.58
Area: 37538
Amount: 0.552164
Amount Units: ng/uL

Processing Integration Results



RT: 2.58
Area: 35245
Amount: 0.544874
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:08
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

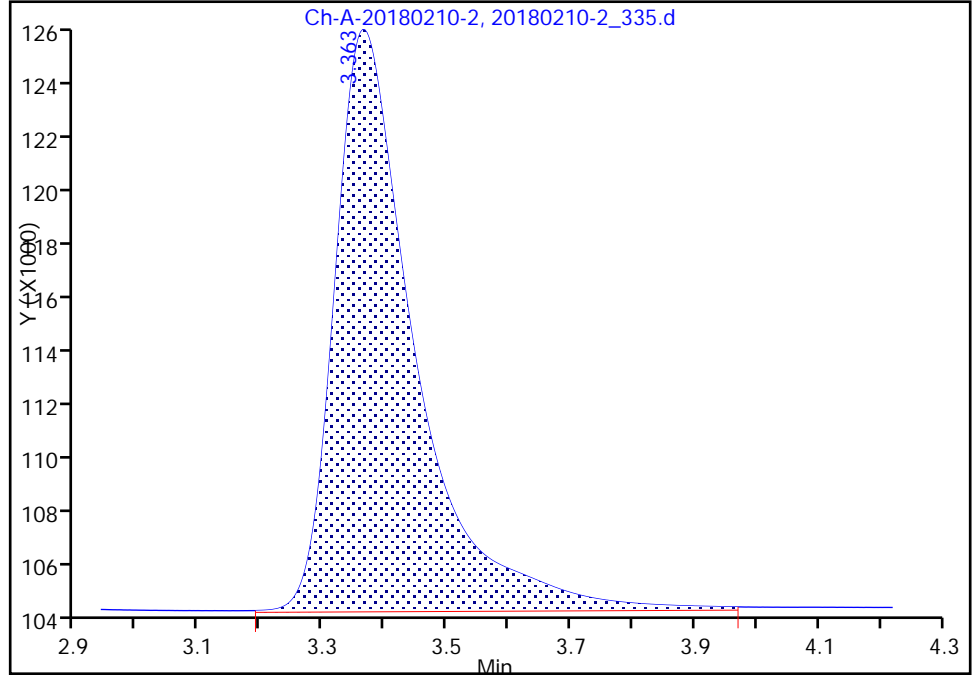
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_335.d
Injection Date: 20-Feb-2018 17:26:56 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

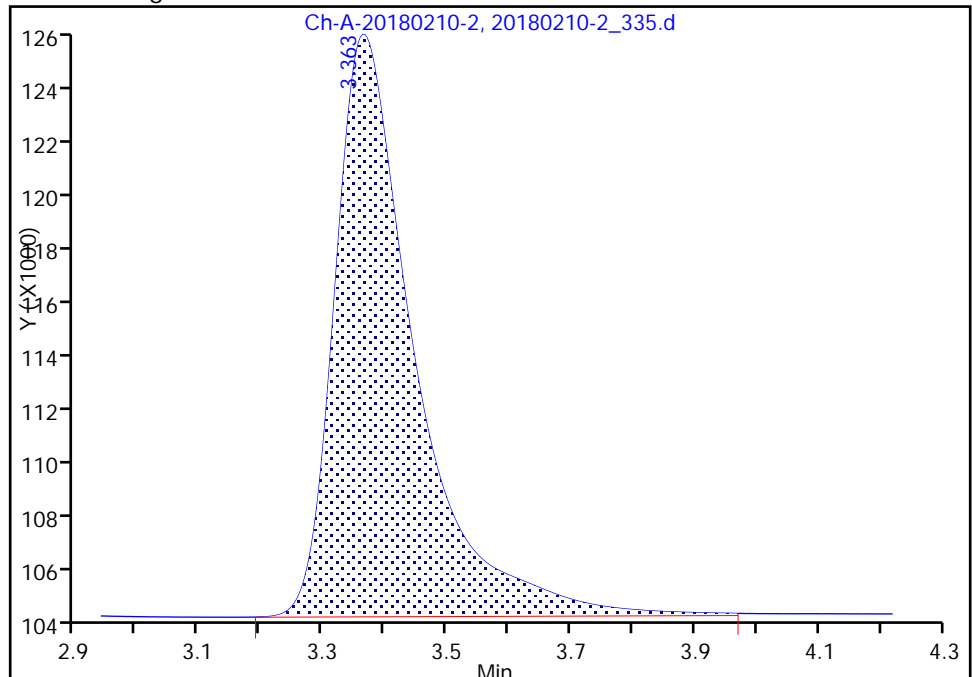
RT: 3.36
Area: 190058
Amount: 5.041961
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 187788
Amount: 4.964443
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:03
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

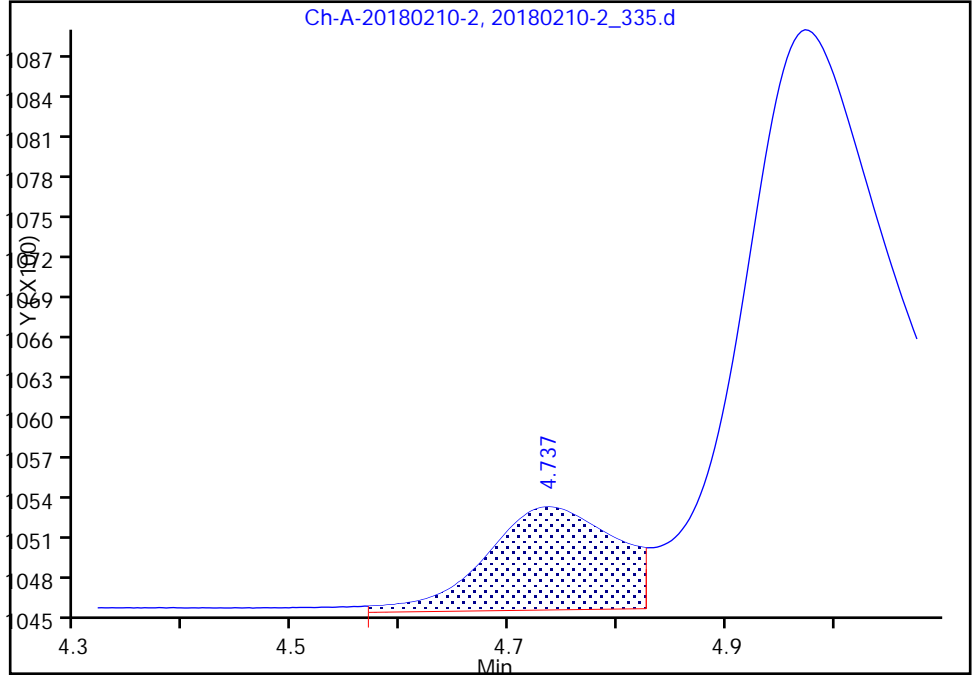
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_335.d
Injection Date: 20-Feb-2018 17:26:56 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

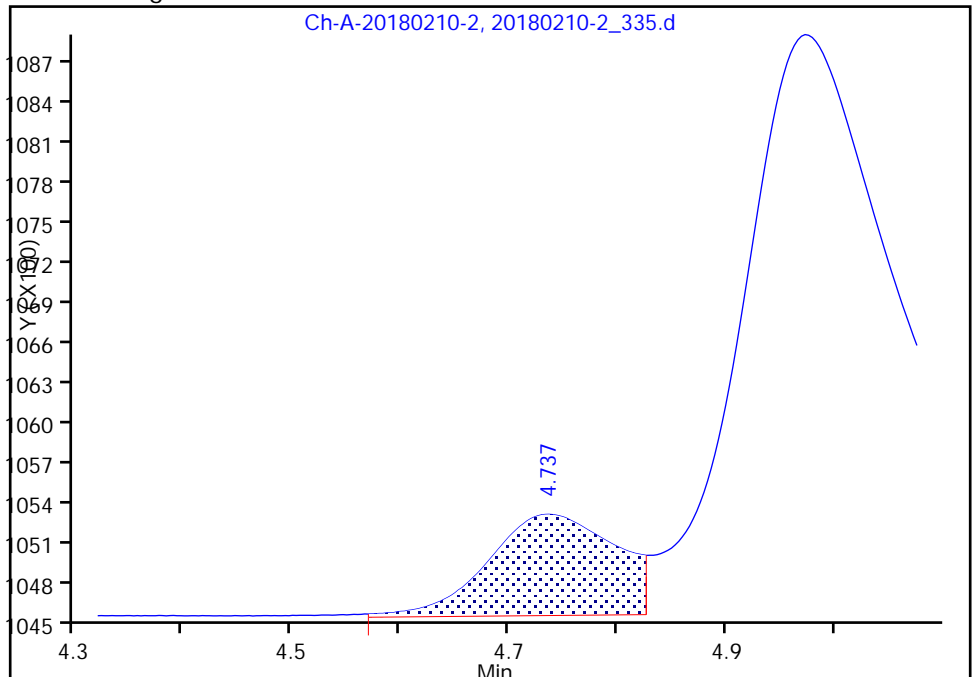
RT: 4.74
Area: 6290
Amount: 0.510248
Amount Units: ng/uL

Processing Integration Results



RT: 4.74
Area: 6013
Amount: 0.487817
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:03
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

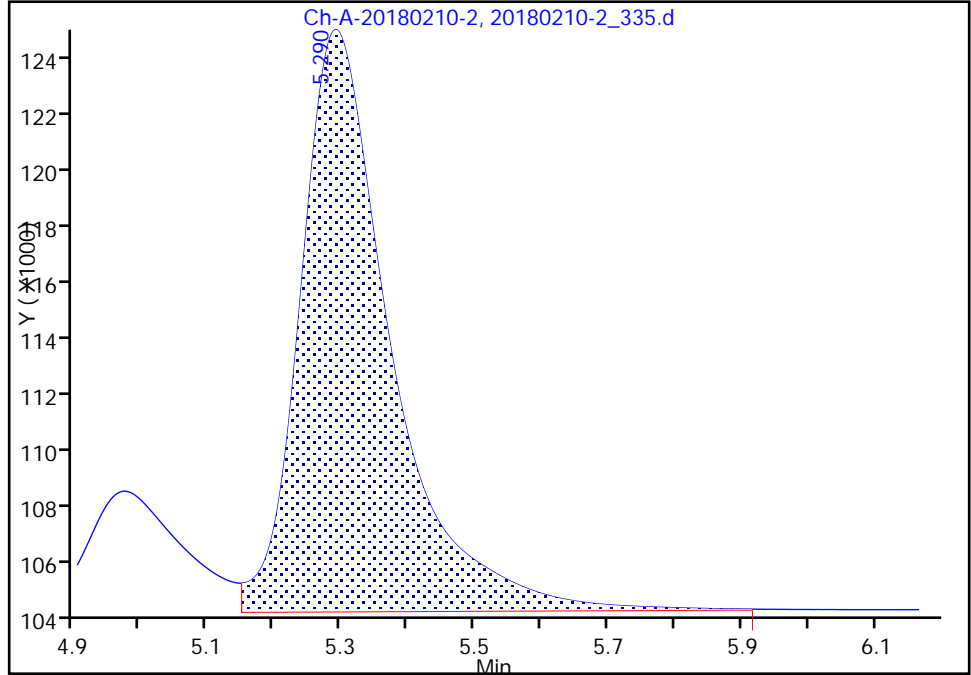
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_335.d
Injection Date: 20-Feb-2018 17:26:56 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

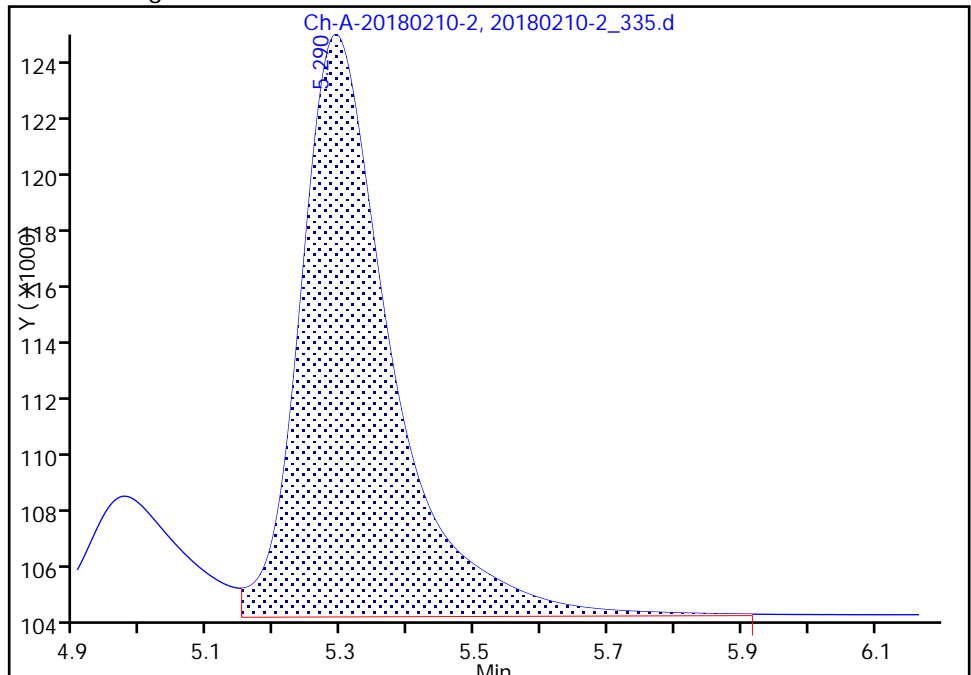
RT: 5.29
Area: 191349
Amount: 5.248064
Amount Units: ng/uL

Processing Integration Results



RT: 5.29
Area: 191556
Amount: 5.397424
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:03

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_336.d
 Lims ID: IC - STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Feb-2018 17:35:04 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 336 Name: IC - STD4
 Misc. Info.: Study: 480-0069378-005 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Feb-2018 11:18:22 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK048

First Level Reviewer: abramoc Date: 21-Feb-2018 09:08:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.597	2.610	-0.013	128533	2.00	2.02	M
2 Chloride						M
3.363	3.360	0.003	744255	20.0	19.7	M
3 Bromide						M
4.727	4.703	0.024	24415	2.00	2.06	M
4 Nitrate as N						M
4.947	4.900	0.047	164027	NC	NC	M
5 Sulfate						M
5.240	5.167	0.073	637513	20.0	19.8	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00032 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_336.d

Injection Date: 20-Feb-2018 17:35:04

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD4

Worklist Smp#: 5

Client ID:

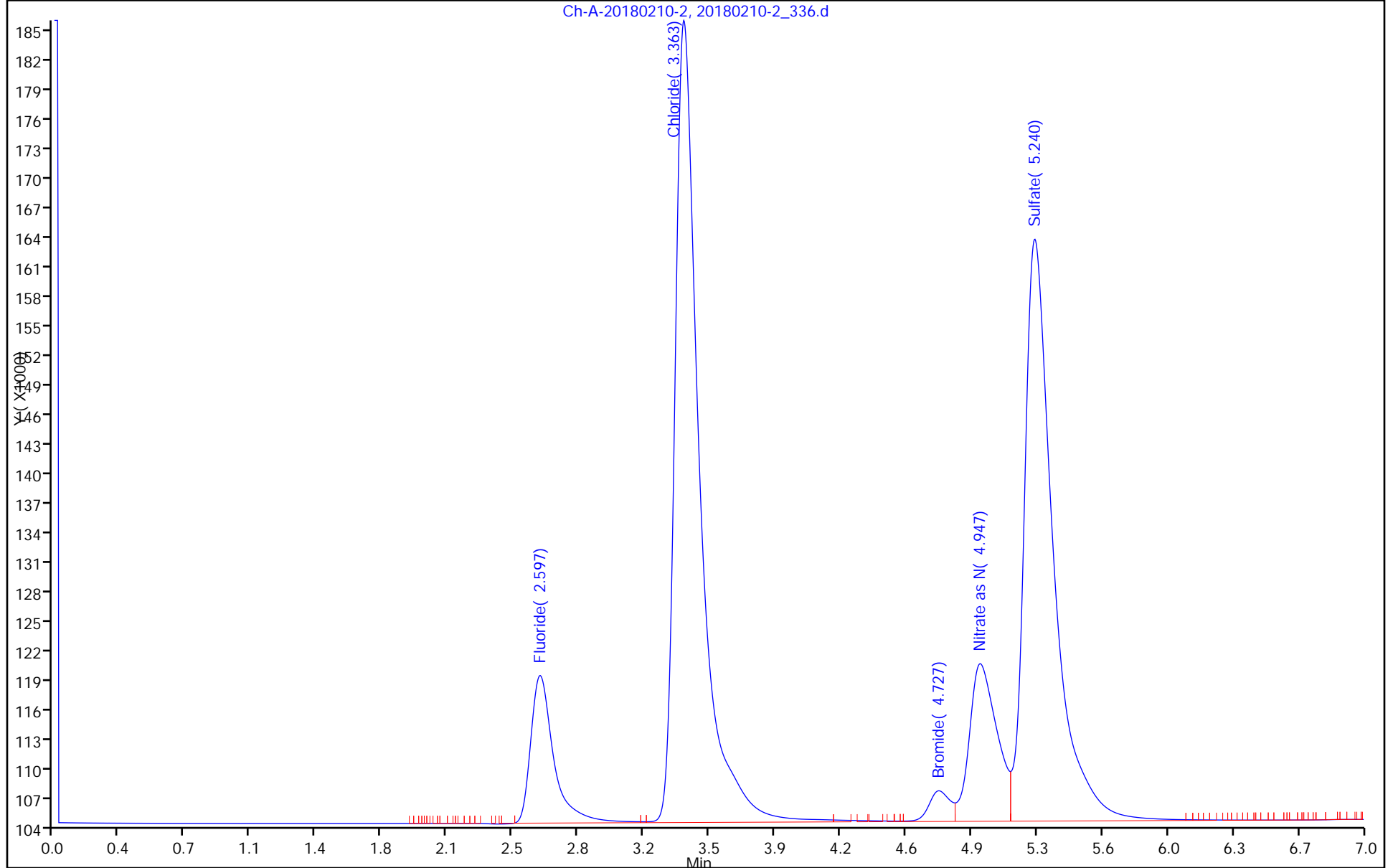
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

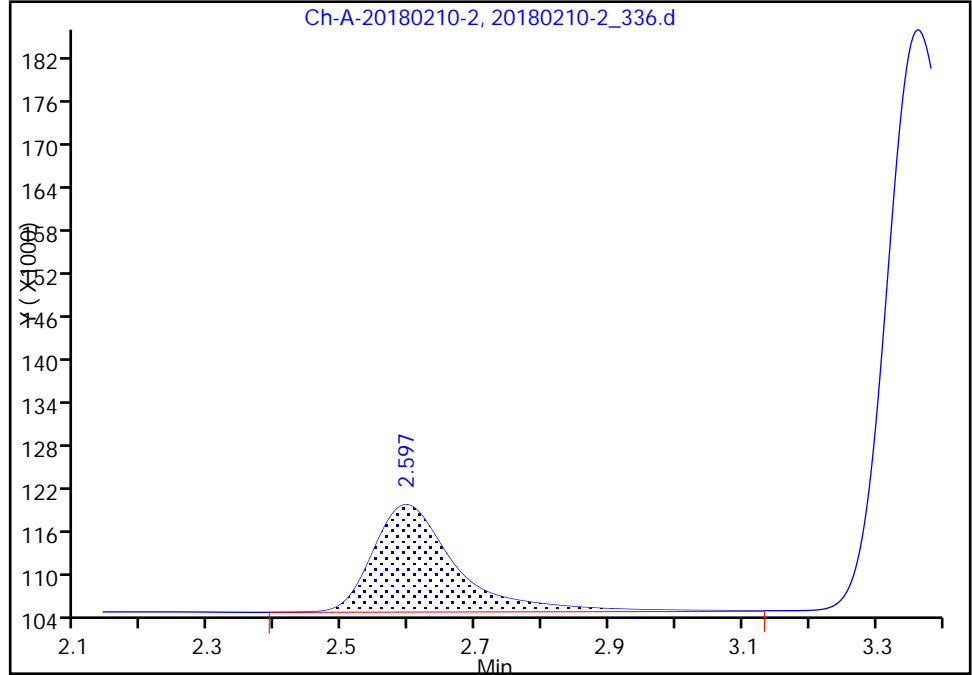
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_336.d
Injection Date: 20-Feb-2018 17:35:04 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

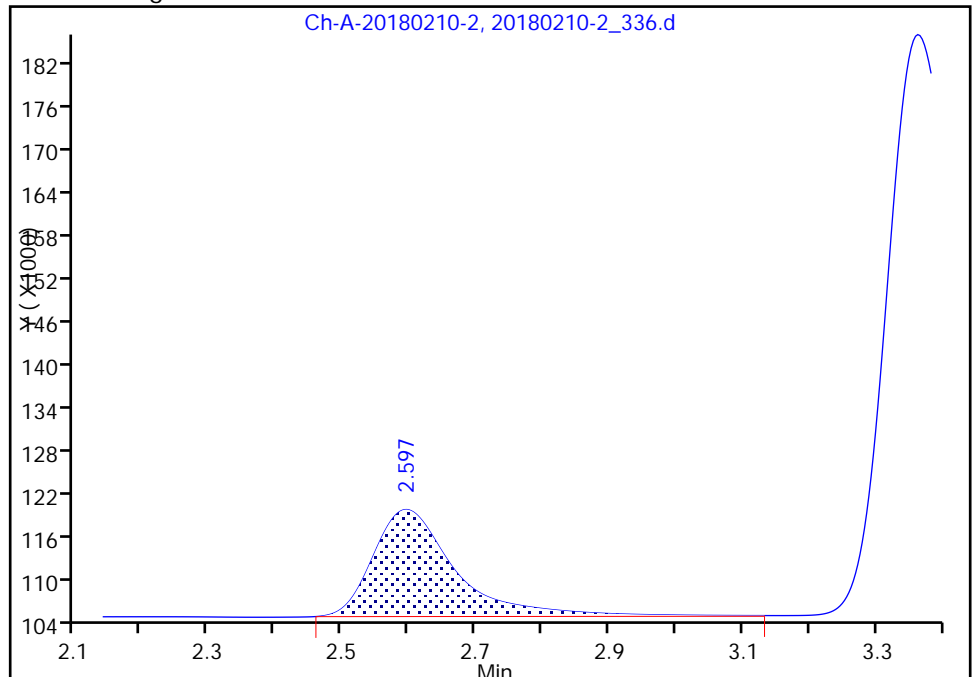
RT: 2.60
Area: 129832
Amount: 1.931477
Amount Units: ng/uL

Processing Integration Results



RT: 2.60
Area: 128533
Amount: 2.021571
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:44
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

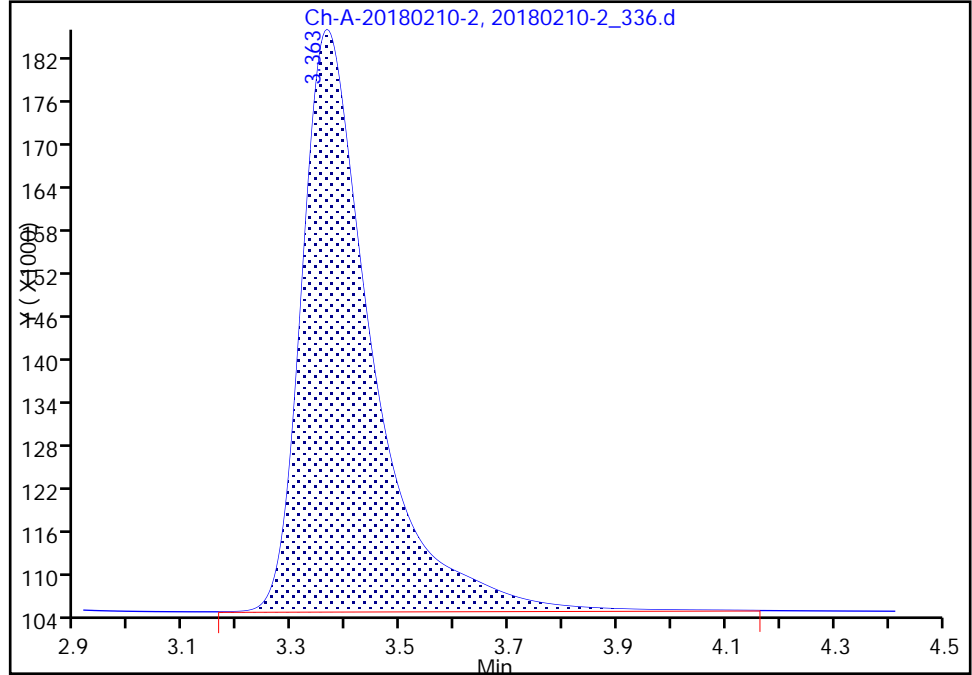
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_336.d
Injection Date: 20-Feb-2018 17:35:04 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

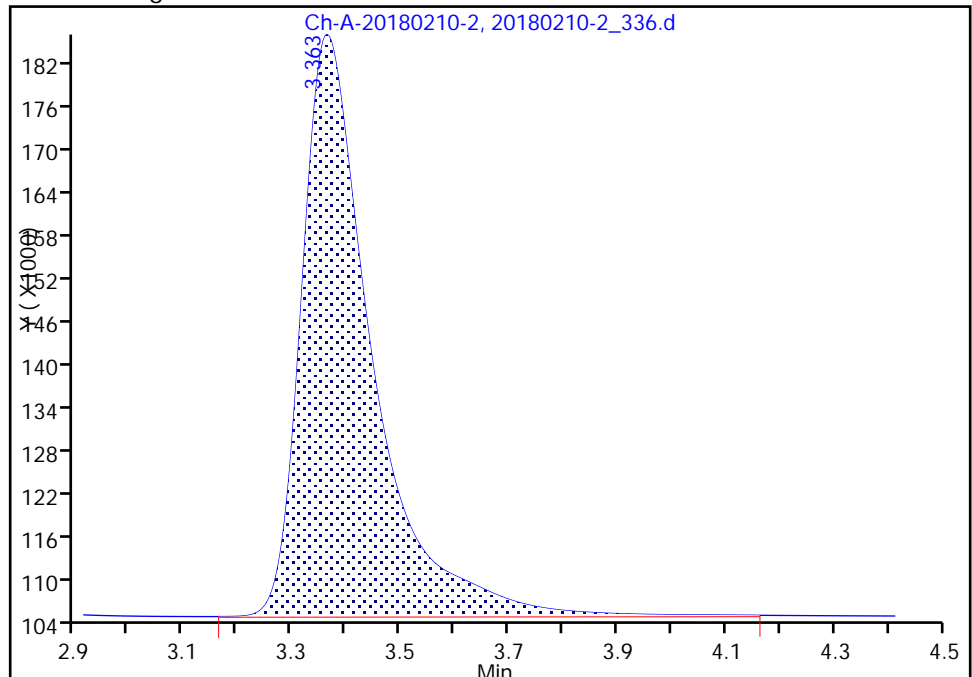
RT: 3.36
Area: 739965
Amount: 19.669673
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 744255
Amount: 19.675441
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

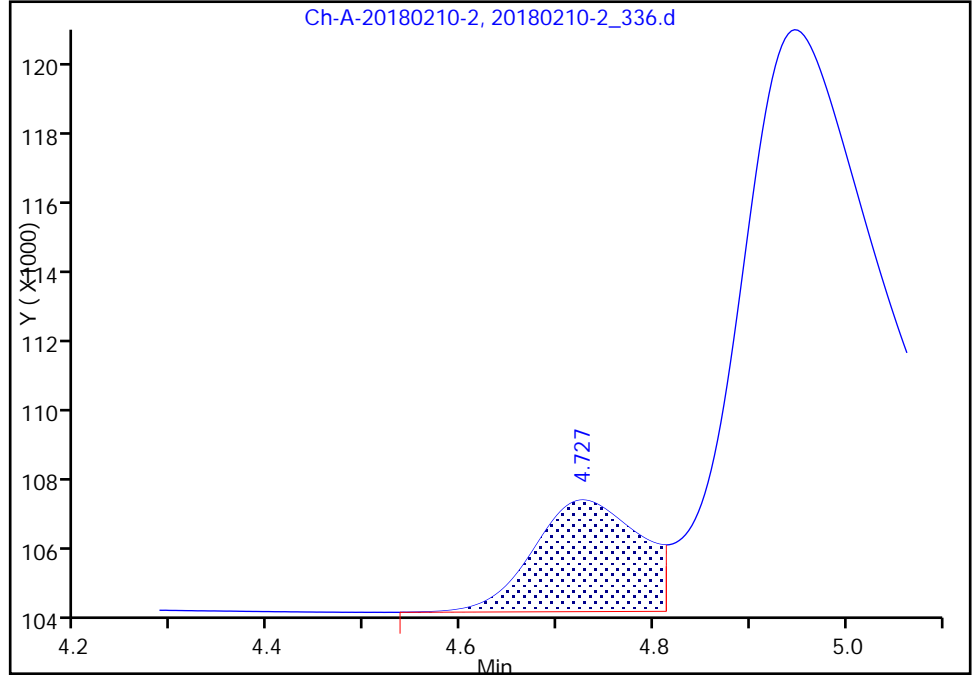
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_336.d
Injection Date: 20-Feb-2018 17:35:04 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

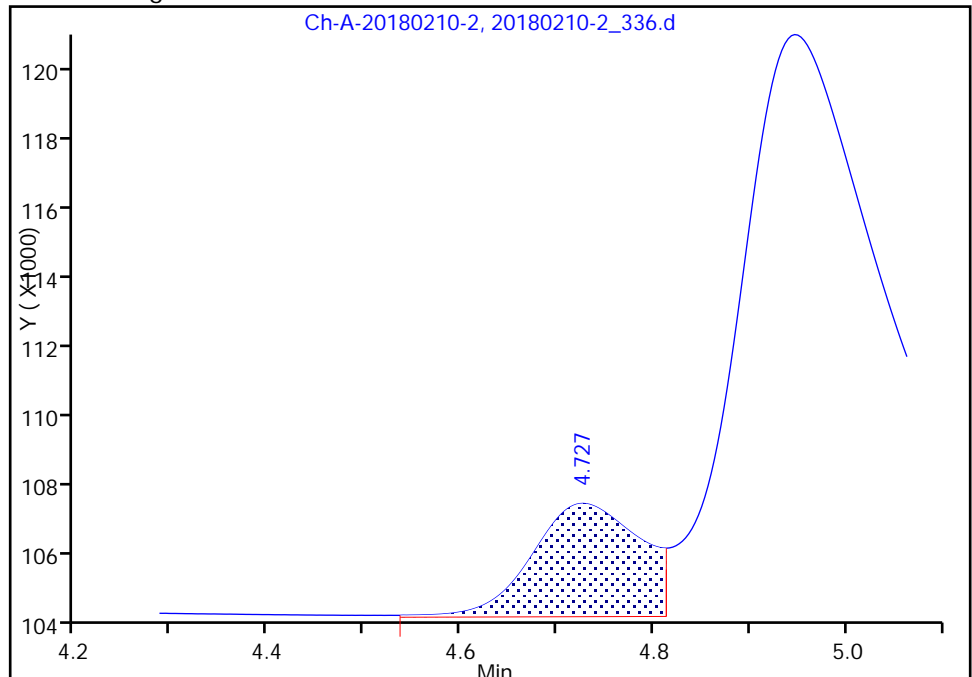
RT: 4.73
Area: 23502
Amount: 1.998825
Amount Units: ng/uL

Processing Integration Results



RT: 4.73
Area: 24415
Amount: 2.062671
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:39
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

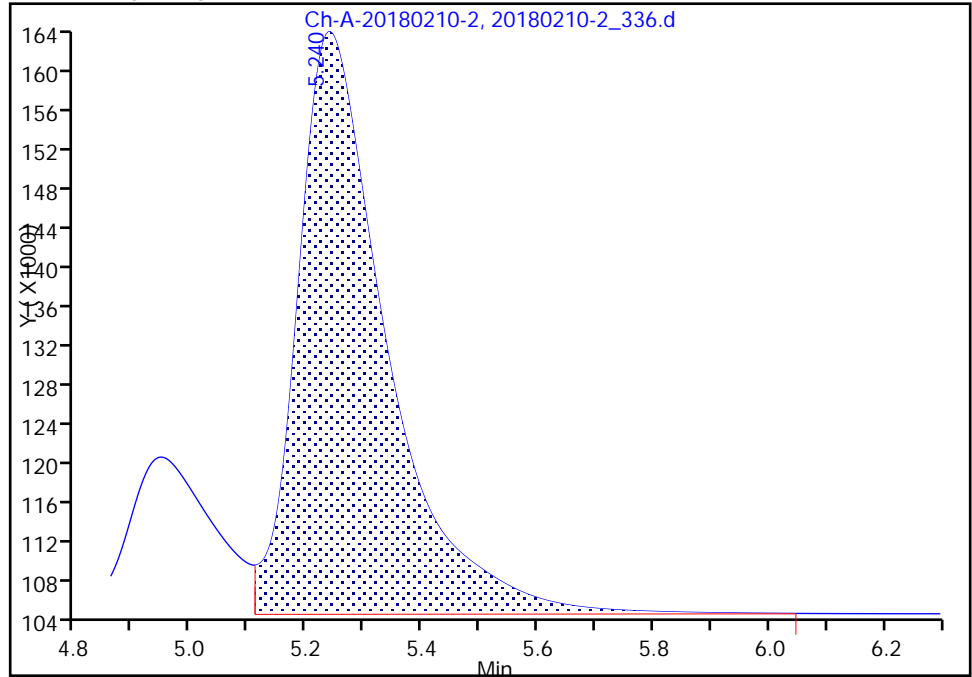
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_336.d
Injection Date: 20-Feb-2018 17:35:04 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

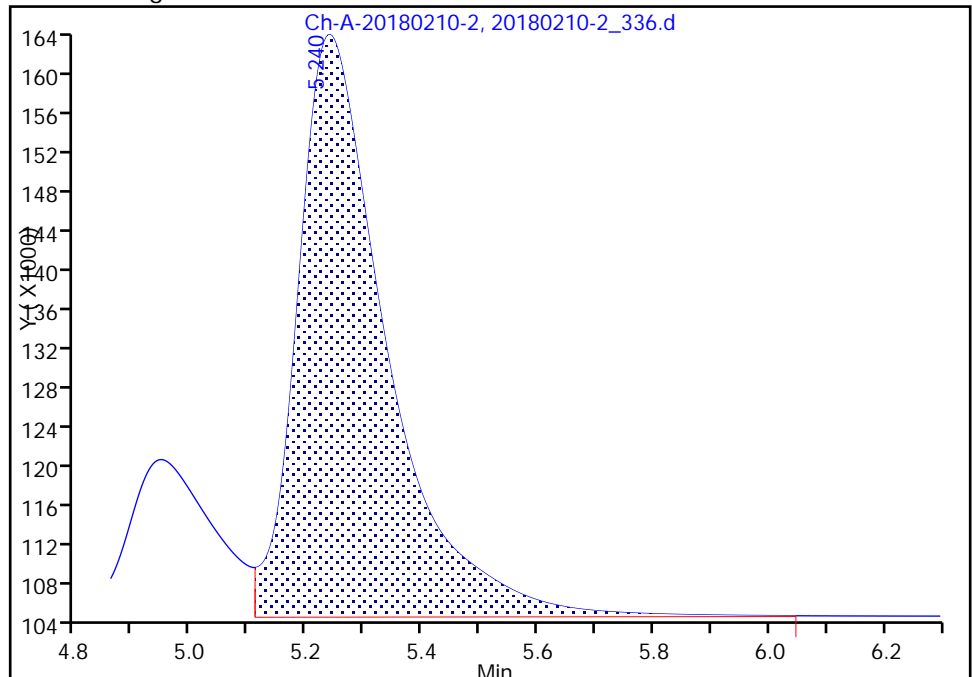
RT: 5.24
Area: 634899
Amount: 18.966138
Amount Units: ng/uL

Processing Integration Results



RT: 5.24
Area: 637513
Amount: 19.841626
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:08:39
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d
 Lims ID: IC - STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-Feb-2018 17:43:13 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 337 Name: IC - STD5
 Misc. Info.: Study: 480-0069378-006 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Feb-2018 11:18:24 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK048

First Level Reviewer: abramoc Date: 21-Feb-2018 09:09:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.610	2.610	0.000	299972	5.00	4.74	M
2 Chloride						M
3.360	3.360	0.000	1895062	50.0	50.1	M
3 Bromide						M
4.703	4.703	0.000	60449	5.00	5.15	M
4 Nitrate as N						M
4.900	4.900	0.000	395450	NC	NC	M
5 Sulfate						M
5.167	5.167	0.000	1553313	50.0	49.5	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00032 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d

Injection Date: 20-Feb-2018 17:43:13

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD5

Worklist Smp#: 6

Client ID:

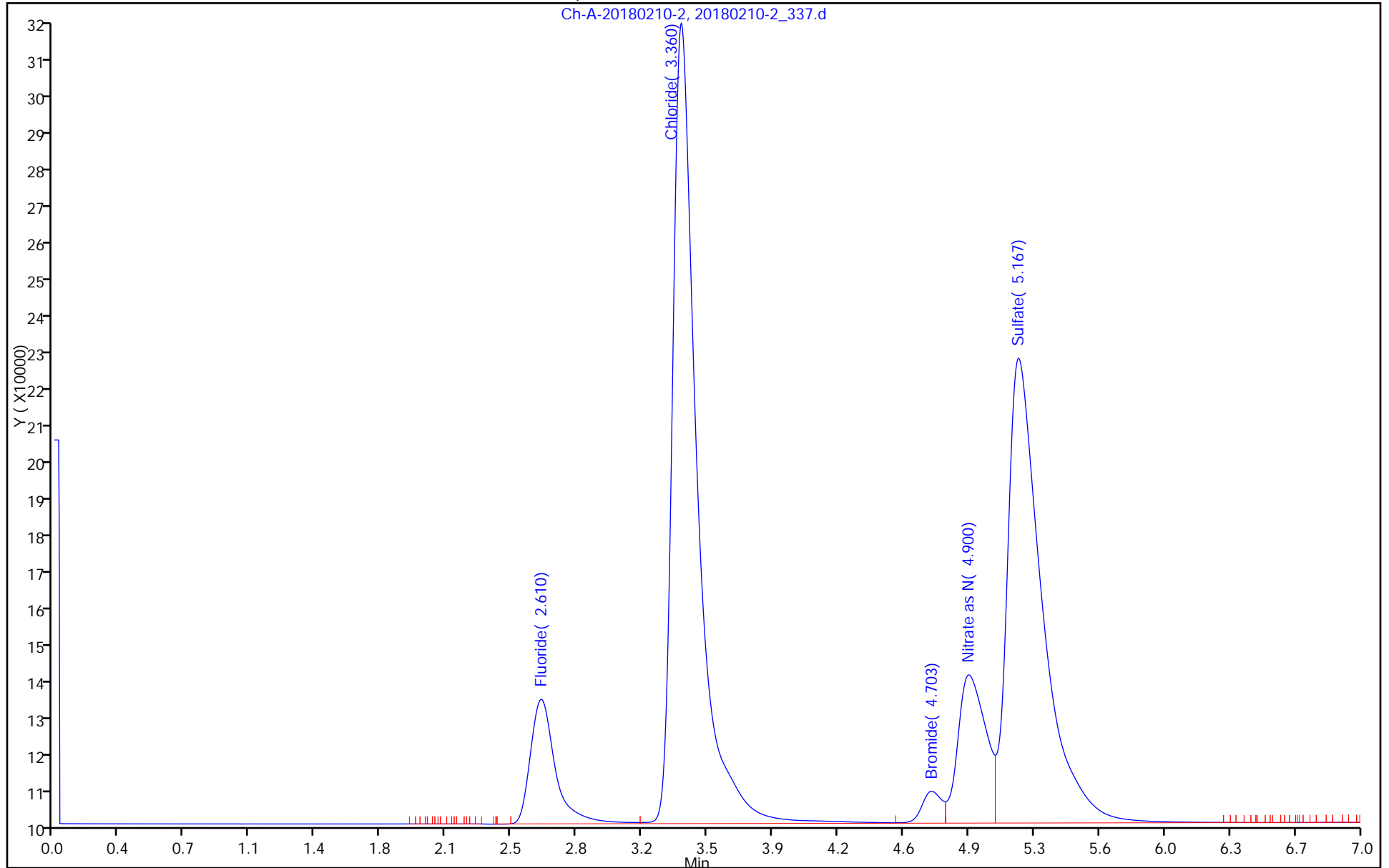
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

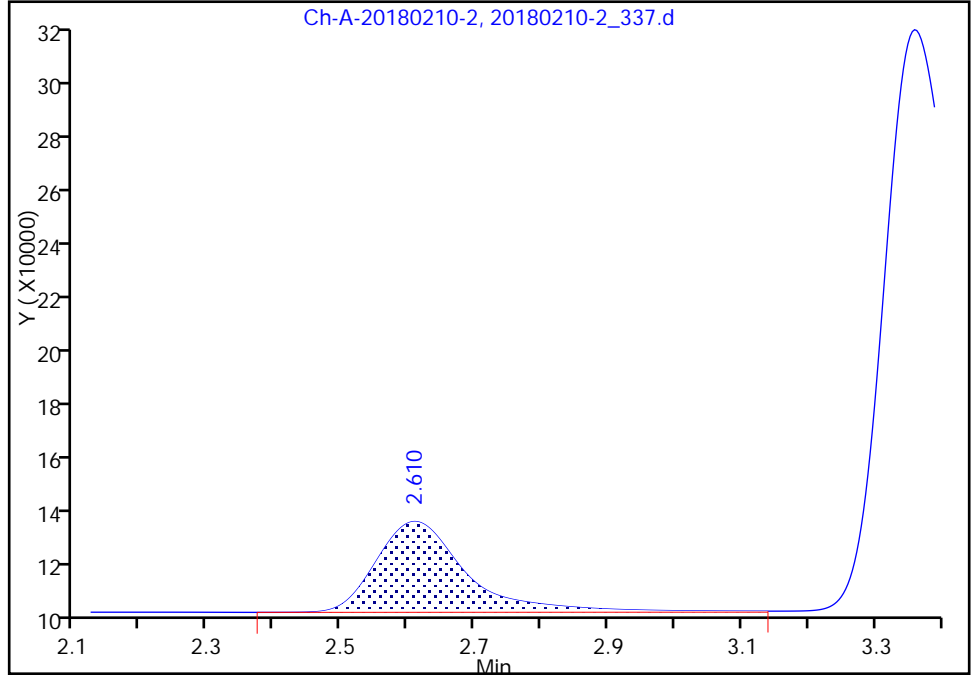
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d
Injection Date: 20-Feb-2018 17:43:13 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

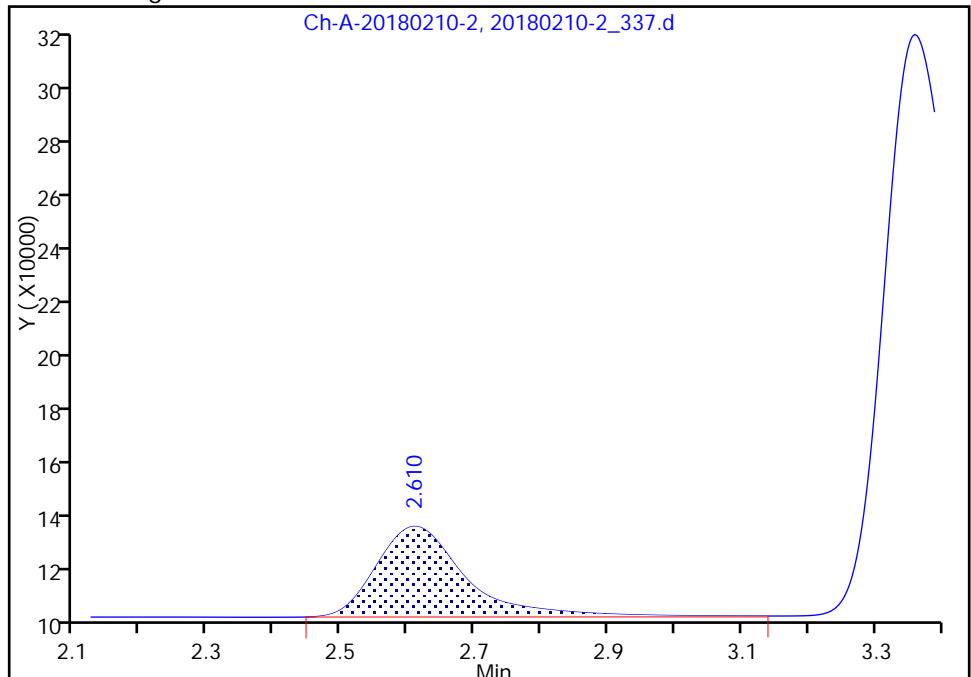
RT: 2.61
Area: 302630
Amount: 4.509409
Amount Units: ng/uL

Processing Integration Results



RT: 2.61
Area: 299972
Amount: 4.735355
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:09:24
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

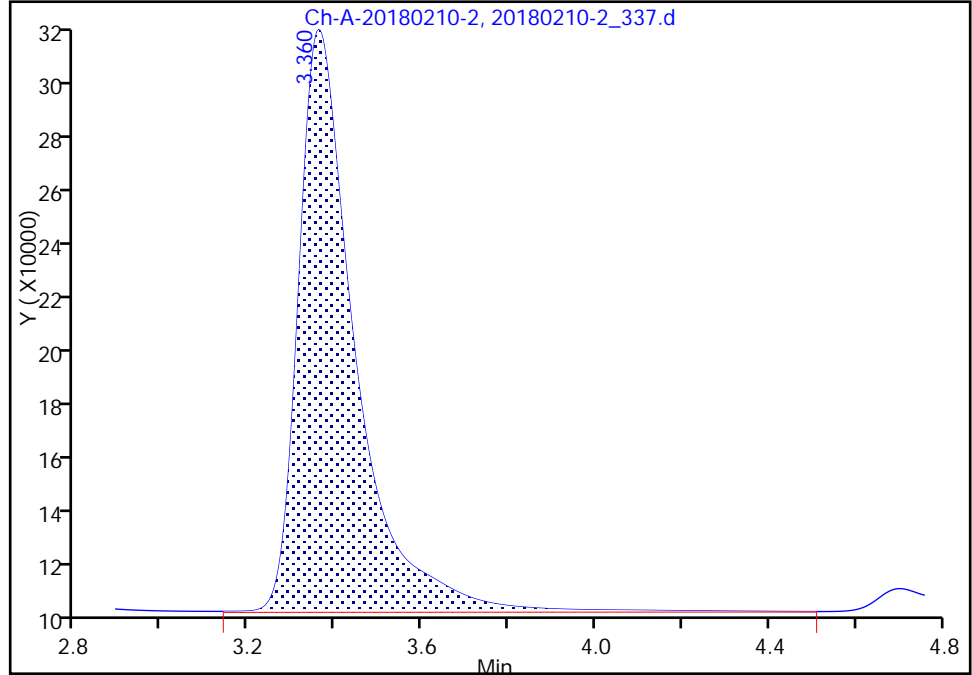
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d
Injection Date: 20-Feb-2018 17:43:13 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

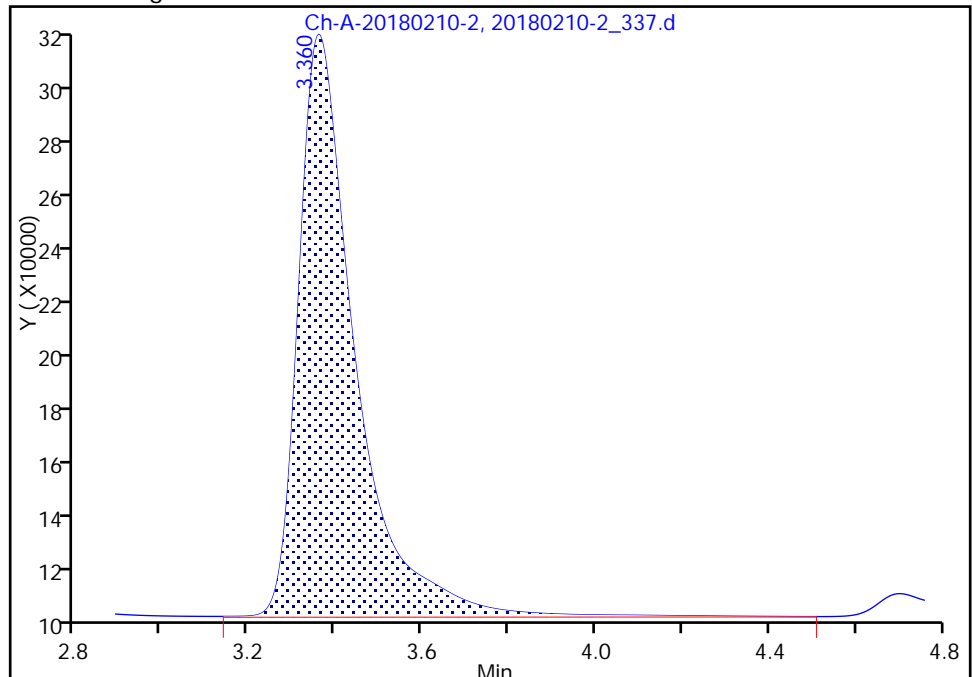
RT: 3.36
Area: 1898556
Amount: 50.419305
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 1895062
Amount: 50.098663
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:09:19
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

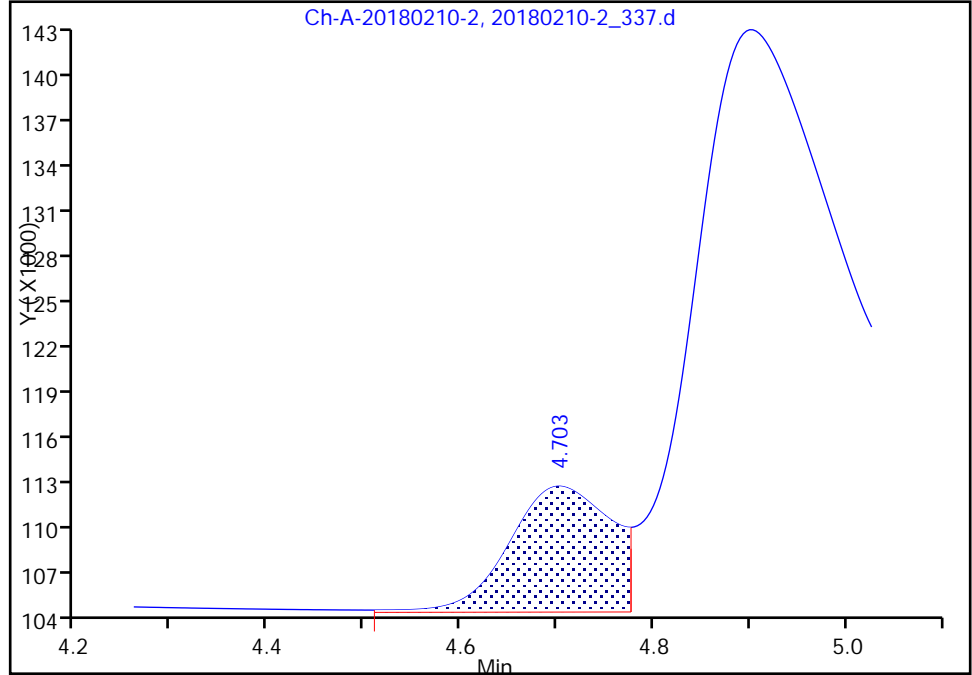
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d
Injection Date: 20-Feb-2018 17:43:13 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

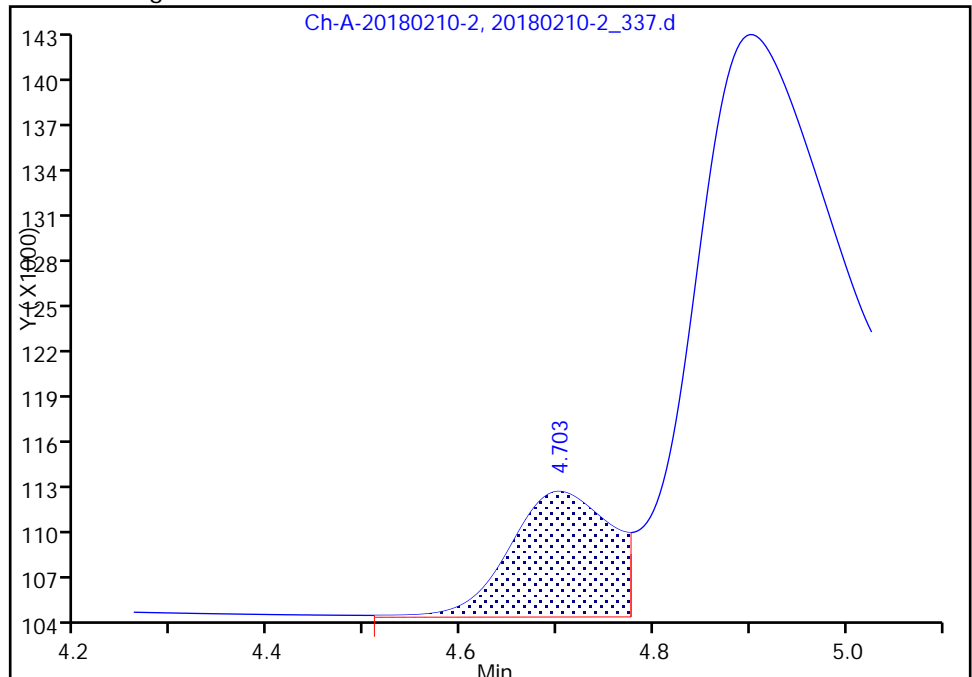
RT: 4.70
Area: 60873
Amount: 5.174411
Amount Units: ng/uL

Processing Integration Results



RT: 4.70
Area: 60449
Amount: 5.146481
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:09:19
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

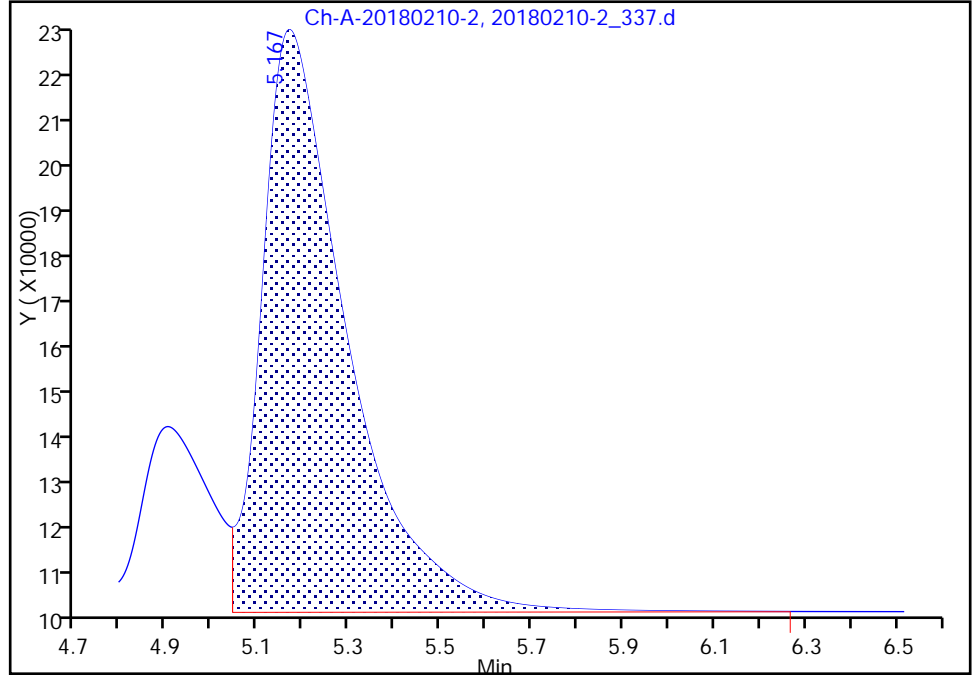
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_337.d
Injection Date: 20-Feb-2018 17:43:13 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

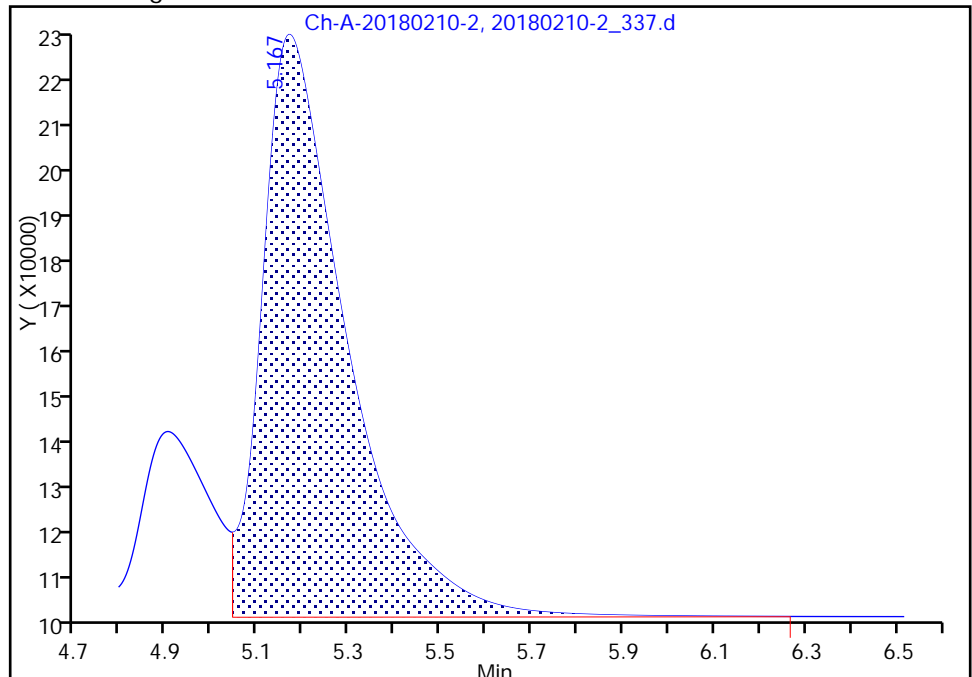
RT: 5.17
Area: 1553900
Amount: 47.348026
Amount Units: ng/uL

Processing Integration Results



RT: 5.17
Area: 1553313
Amount: 49.503678
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:09:19

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Lims ID: IC - STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 20-Feb-2018 17:51:21 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 338 Name: IC - STD6
 Misc. Info.: Study: 480-0069378-007 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Feb-2018 11:18:26 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK048

First Level Reviewer: abramoc Date: 21-Feb-2018 09:11:46

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.617	2.610	0.007	558763	10.0	8.83	M
2 Chloride						M
3.353	3.360	-0.007	3827500	100.0	101.2	M
3 Bromide						M
4.663	4.703	-0.040	112098	10.0	9.57	M
4 Nitrate as N						M
4.843	4.900	-0.057	757119	NC	NC	M
5 Sulfate						M
5.097	5.167	-0.070	3114995	100.0	100.1	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00032 Amount Added: 500.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Injection Date: 20-Feb-2018 17:51:21

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: IC - STD6

Worklist Smp#: 7

Client ID:

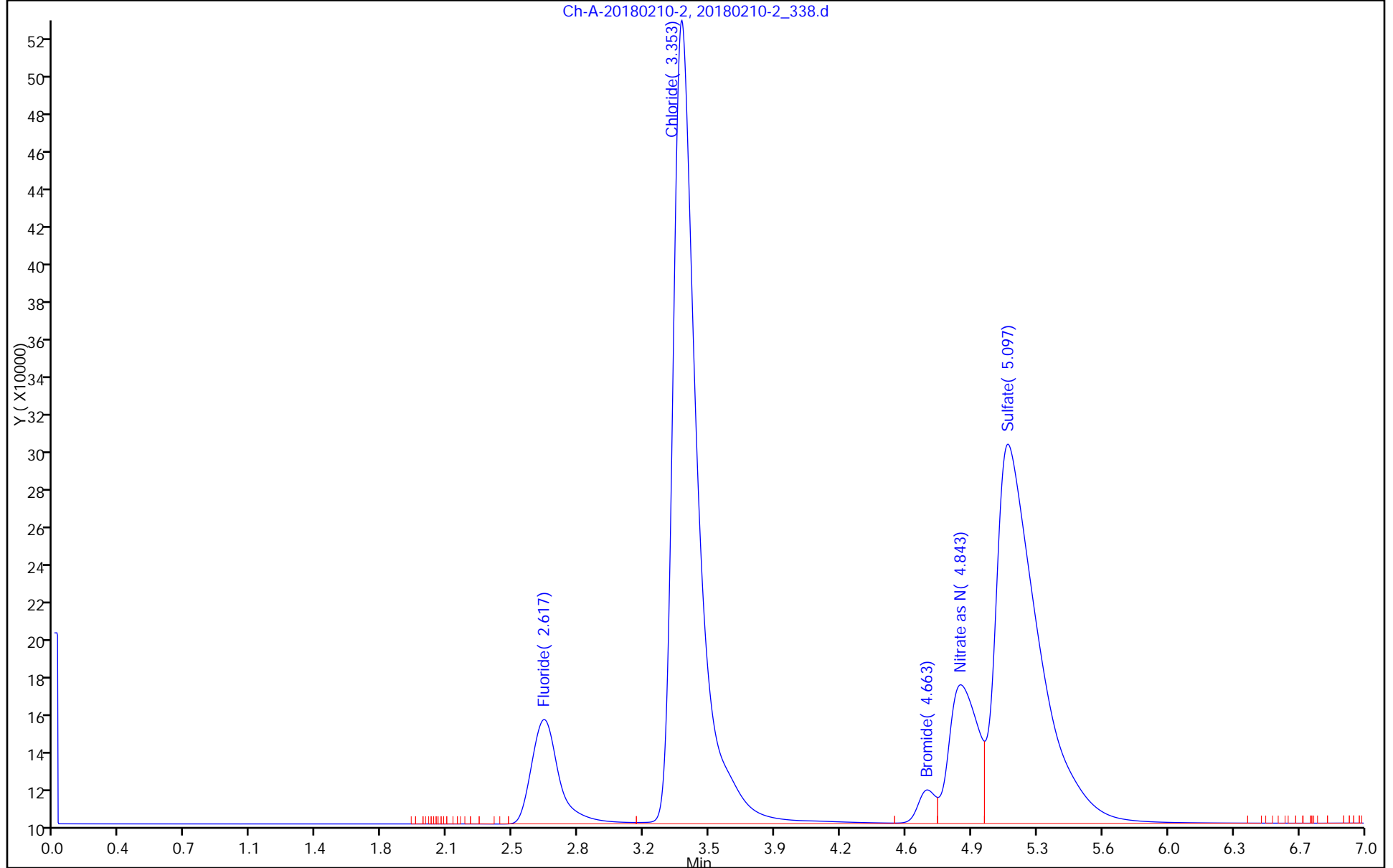
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

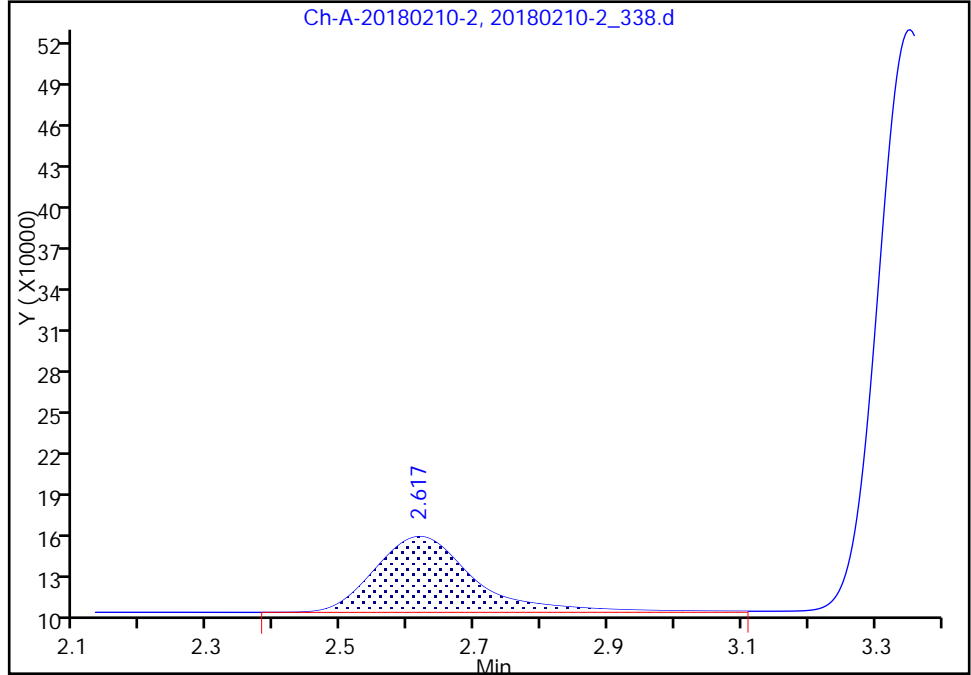
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
Injection Date: 20-Feb-2018 17:51:21 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

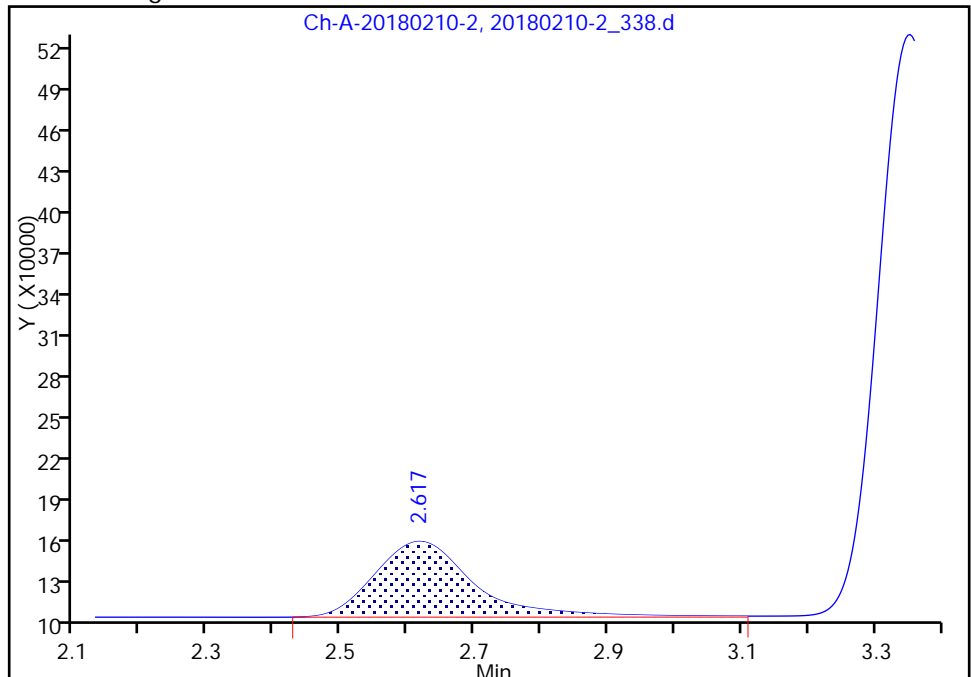
RT: 2.62
Area: 560772
Amount: 8.366961
Amount Units: ng/uL

Processing Integration Results



RT: 2.62
Area: 558763
Amount: 8.831872
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:11:33
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

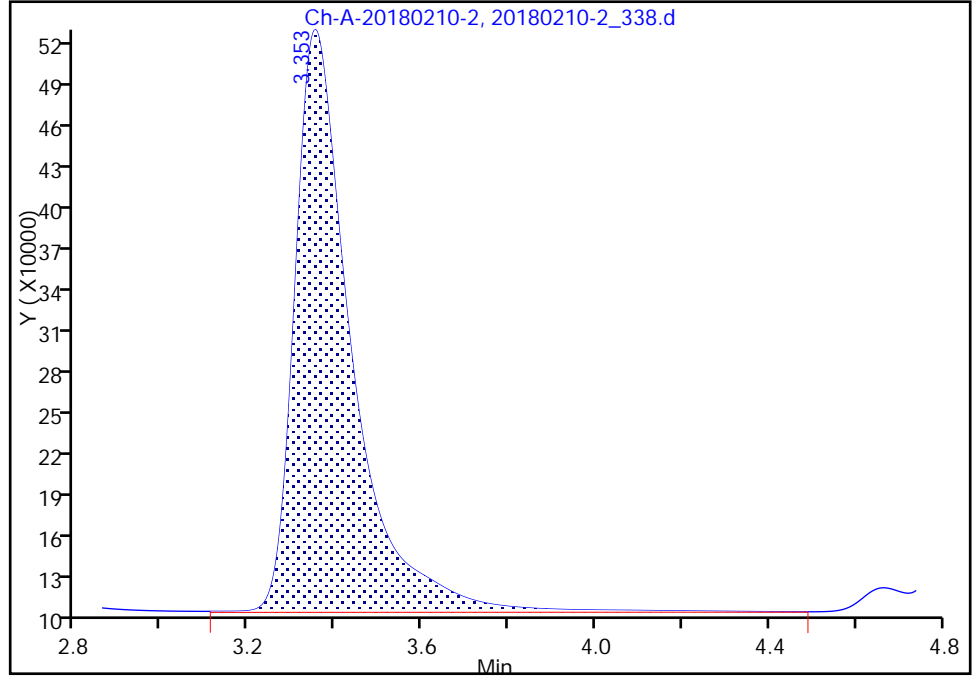
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
Injection Date: 20-Feb-2018 17:51:21 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

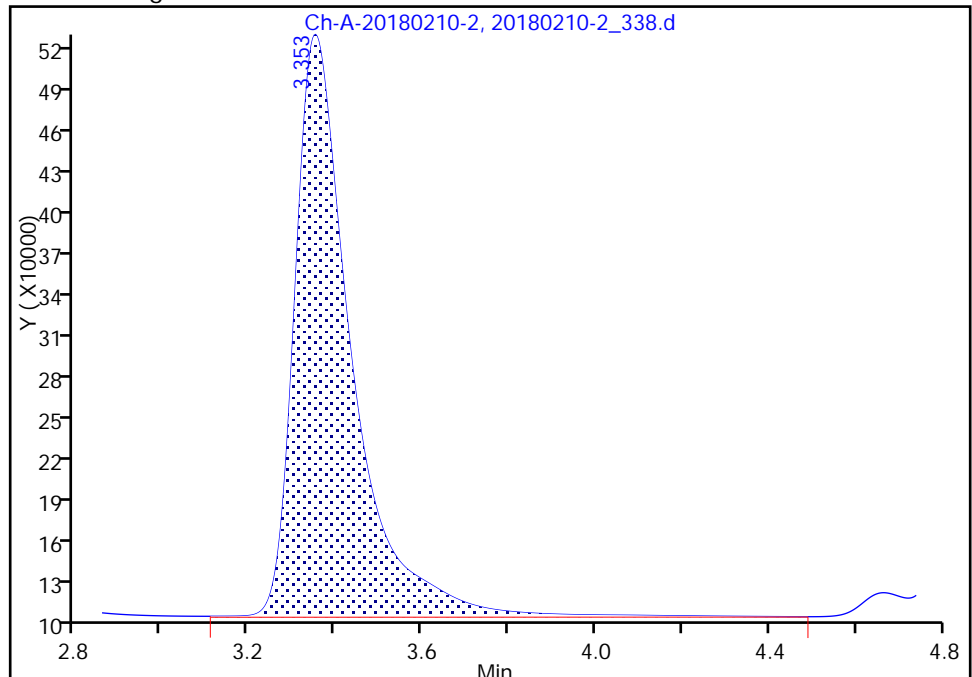
RT: 3.35
Area: 3829156
Amount: 101.7211
Amount Units: ng/uL

Processing Integration Results



RT: 3.35
Area: 3827500
Amount: 101.1854
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:11:26
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

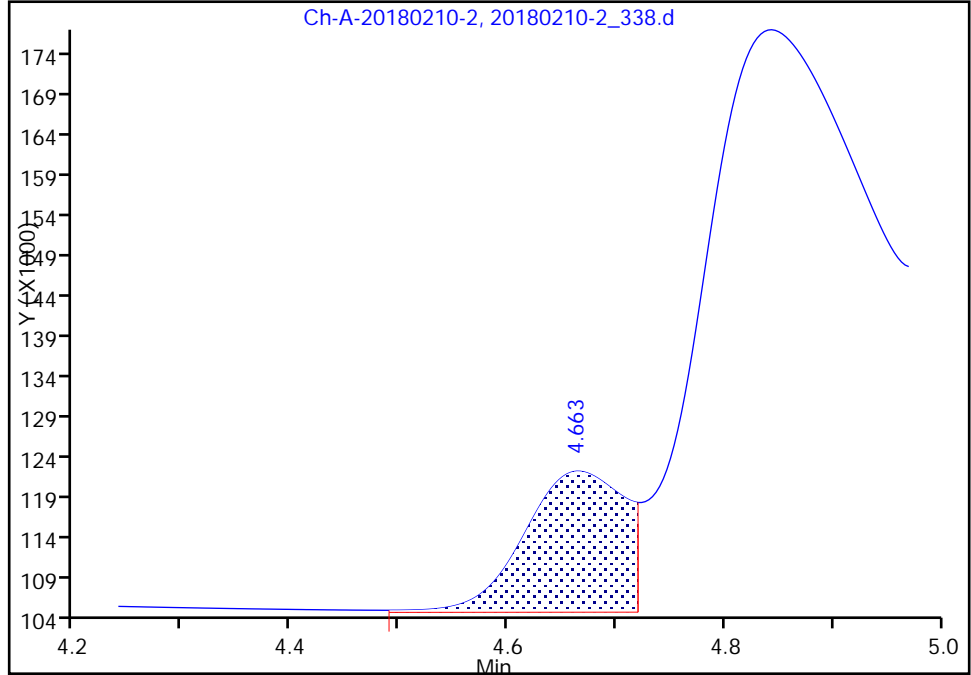
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
Injection Date: 20-Feb-2018 17:51:21 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

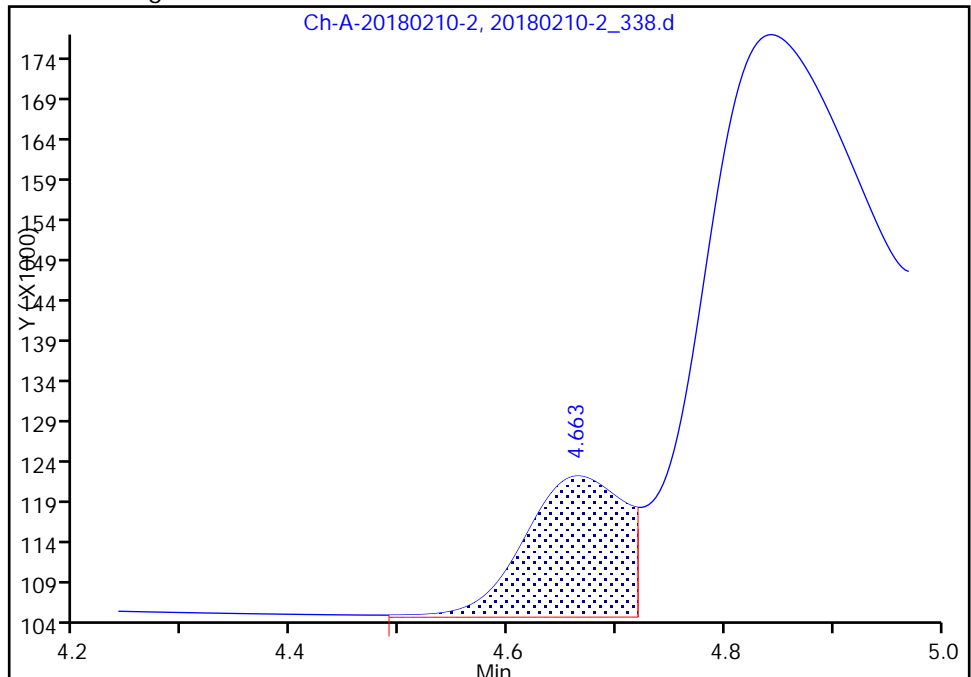
RT: 4.66
Area: 112063
Amount: 9.564310
Amount Units: ng/uL

Processing Integration Results



RT: 4.66
Area: 112098
Amount: 9.566632
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:11:26
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

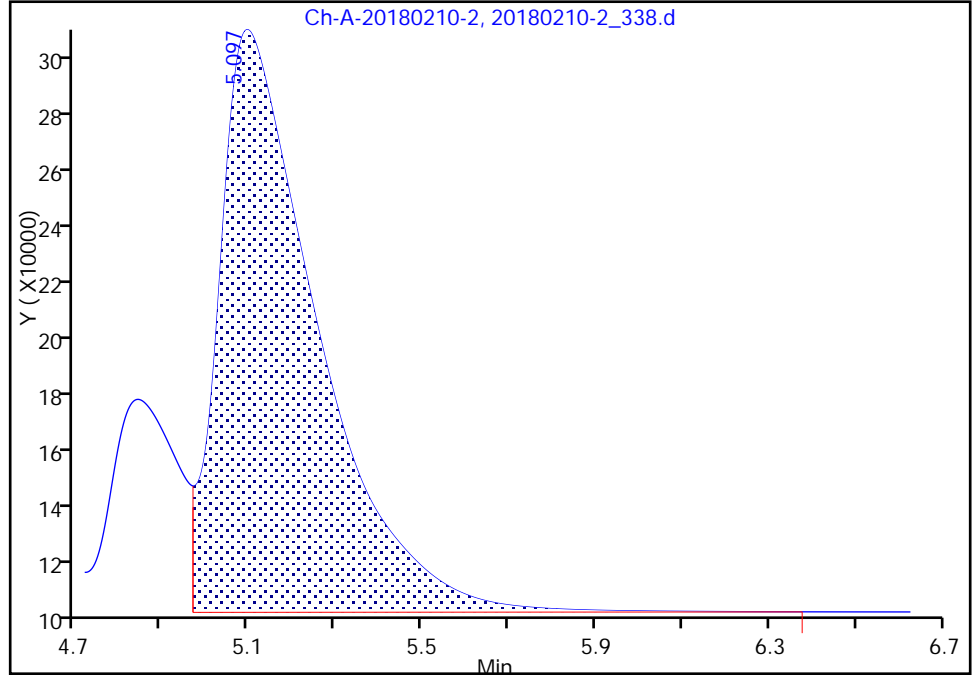
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
Injection Date: 20-Feb-2018 17:51:21 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

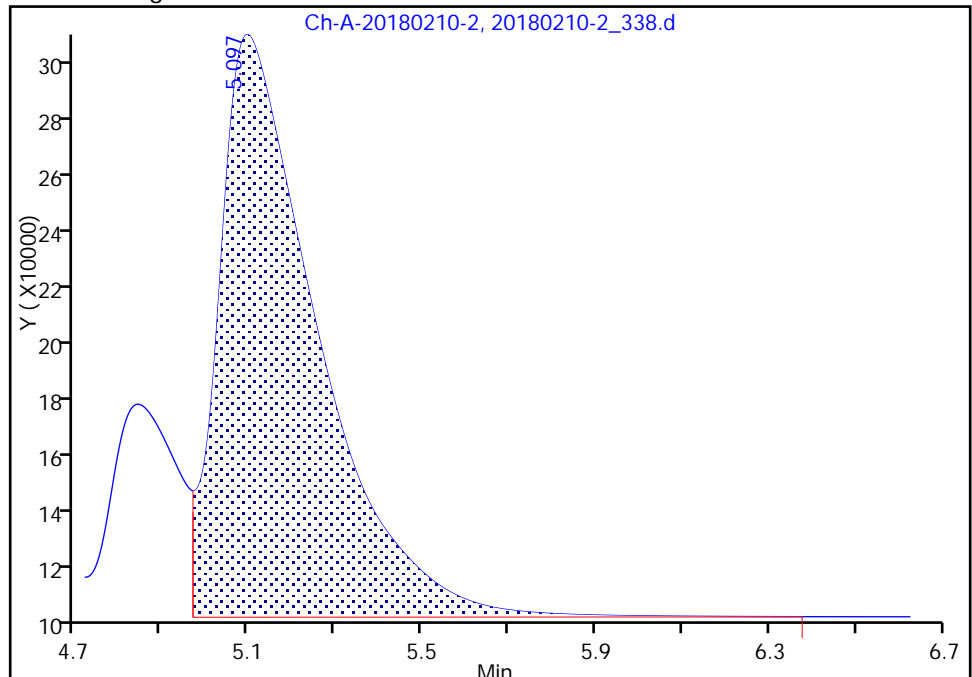
RT: 5.10
Area: 3112378
Amount: 95.516226
Amount Units: ng/uL

Processing Integration Results



RT: 5.10
Area: 3114995
Amount: 100.0853
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 21-Feb-2018 09:11:26
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

Ion Chromatography Data Review Checklist

LIMS Batch Number: 401726	Worklist: 69537	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: JS	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): Standard <u>QAPP</u> Other
Matrix (circle): Drinking Water Non-potable Water <u>Solid</u> Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{AM}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after choms, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Out of control QC is clearly identified	✓			
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓			
16. Run Log	✓			
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Analyst initials/signature provided	✓			
17. TALS Samples Tab	✓			
a. LIMS Sample IDs / Containers are correct	✓			
b. Method and matrix are correct	✓			
c. Date and time match raw data	✓			
d. Dilutions are correct	✓			
e. Correct suffix designated (where applicable)	✓			
18. TALS Worksheet Tab is complete and correct	✓			
19. TALS Reagent Tab is complete and correct	✓			
20. TALS QC Links Tab is correct	✓			
21. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓			
b. All reported analytes are marked Primary or Secondary	✓			
22. TALS Batch Information Screen documentation is complete	✓			
23. TALS Status set to appropriate review level	✓			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

Ion Chromatography Data Review Checklist

LIMS Batch Number: 401727	Worklist: 69537	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: JS	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water Non-potable <u>Water</u> Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after choms, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Out of control QC is clearly identified	✓			
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓			
16. Run Log	✓			
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Analyst initials/signature provided	✓			
17. TALS Samples Tab	✓			
a. LIMS Sample IDs / Containers are correct	✓			
b. Method and matrix are correct	✓			
c. Date and time match raw data	✓			
d. Dilutions are correct	✓			
e. Correct suffix designated (where applicable)	✓			
18. TALS Worksheet Tab is complete and correct	✓			
19. TALS Reagent Tab is complete and correct	✓			
20. TALS QC Links Tab is correct	✓			
21. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓			
b. All reported analytes are marked Primary or Secondary	✓			
22. TALS Batch Information Screen documentation is complete	✓			
23. TALS Status set to appropriate review level	✓			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [Buffalo]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 401728	Worklist: 69537	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: BS	Method (circle): 300.0, 314.0, <u>9056</u> , 7199, SM4110, VFA	QC Type (circle): <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water <u>Non-potable Water</u> Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓			<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Out of control QC is clearly identified	✓			
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓			
16. Run Log	✓			
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Analyst initials/signature provided	✓			
17. TALS Samples Tab	✓			
a. LIMS Sample IDs / Containers are correct	✓			
b. Method and matrix are correct	✓			
c. Date and time match raw data	✓			
d. Dilutions are correct	✓			
e. Correct suffix designated (where applicable)	✓			
18. TALS Worksheet Tab is complete and correct	✓			
19. TALS Reagent Tab is complete and correct	✓			
20. TALS QC Links Tab is correct	✓			
21. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓			
b. All reported analytes are marked Primary or Secondary	✓			
22. TALS Batch Information Screen documentation is complete	✓			
23. TALS Status set to appropriate review level	✓			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica Laboratories
 Worklist Report

Worklist Name: 20180227B
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\Chrom\NA\Buffalo\ChromData\IC-2\20180227-69537.b
 Upload Directory: \\CORPTAL\SAPP17480-BF-RawData\Organics\MS\IC-2

Worklist Number: 69537
 Chrom Method: IC2-300
 Units: ul







*cond std - 45 1413, 5025c (1278, 5025c)
 daily cal 1276, 5021.5c*

07/03/2018

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069537-001	#1 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069537-002	#2 CCB		CCB	SV	5.000	mL	1.000
480-0069537-003	#3 LCS	IC_ANION_LCS_00191	LCS	SV	5.000	mL	1.000
480-0069537-004	#4 MB		MB	SV	5.000	mL	1.000
480-0069537-005	#5 480-131137-C-2	119.5015c	Client	SV	5.000	mL	0.0
480-0069537-006	#6 480-131552-G-2		Client	SV	5.000	mL	50.000
480-0069537-007	#7 480-131650-E-3		Client	SV	5.000	mL	1.000
480-0069537-008	#8 480-131650-E-4	65.15016c	Client	SV	5.000	mL	0.0
480-0069537-009	#9 480-131650-E-5		Client	SV	5.000	mL	1.000
480-0069537-010	#10 480-131650-E-6	920.5016c	Client	SV	5.000	mL	0.0
480-0069537-011	#11 480-131650-E-6 MS	IC_ANION_STD_00032	MS	SV	5.000	mL	0.0
480-0069537-012	#12 480-131650-E-6 MSD	IC_ANION_STD_00032	MSD	SV	5.000	mL	0.0
480-0069537-013	#13 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069537-014	#14 CCB		CCB	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/wt	Vol/wt Units	Dil Fact
480-0069537-015	#15 480-131653-G-1	1291µs @16C X 5	Client	SV	5.000	mL	0.0
480-0069537-016	#16 480-131665-H-1	13.25µs @16C X 5	Client	SV	5.000	mL	0.0
480-0069537-017	#17 480-131673-F-1	678µs @16C X 2	Client	SV	5.000	mL	0.0
480-0069537-018	#18 480-131673-G-2	354µs @16C X 1	Client	SV	5.000	mL	0.0
480-0069537-019	#19 480-131709-F-1	227µs @16C X 1	Client	SV	5.000	mL	0.0
480-0069537-020	#20 480-131723-E-1	171.5µs @16C X 1	Client	SV	5.000	mL	0.0
480-0069537-021	#21 480-131723-E-2	121.7µs @16C X 1	Client	SV	5.000	mL	0.0
480-0069537-022	#22 480-131725-C-1	887µs @16C X 5	Client	SV	5.000	mL	1.000
480-0069537-023	#23 480-131725-C-2	IC_ANION_STD_00032 X 5	MS	SV	5.000	mL	0.0
480-0069537-024	#24 480-131725-C-2 MS	IC_ANION_STD_00032 X 5	MS	SV	5.000	mL	0.0
480-0069537-025	#25 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069537-026	#26 CCB	CCB	CCB	SV	5.000	mL	1.000
480-0069537-027	#27 LCS	IC_ANION_LCS_00191	LCS	SV	5.000	mL	1.000
480-0069537-028	#28 MB	MB	MB	SV	5.000	mL	1.000
480-0069537-029	#29 480-131725-C-3	2500µL → 5mL	Client	SV	5.000	mL	2.000
480-0069537-030	#30 480-131725-C-4	2500µL → 5mL	Client	SV	5.000	mL	1.000
480-0069537-031	#31 480-131725-C-5	1000µL → 5mL	Client	SV	5.000	mL	5.000
480-0069537-032	#32 480-131725-C-6	1000µL → 5mL	Client	SV	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/wt	Vol/wt Units	Dil Fact
480-0069537-033	#33 480-131725-C-7		Client	SV	5.000	mL	2.000
480-0069537-034	#34 480-131725-C-8	558mS@16C	Client	SV	5.000	mL	0.0
480-0069537-035	#35 480-131725-C-8 MS	IC_ANION_STD_00032	MS	SV	5.000	mL	0.0
480-0069537-036	#36 480-131725-C-8 MSD	IC_ANION_STD_00032	MSD	SV	5.000	mL	0.0
480-0069537-037	#37 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069537-038	#38 CCB		CCB	SV	5.000	mL	1.000
480-0069537-039	#39 480-131725-C-9		Client	SV	5.000	mL	1.000
480-0069537-040	#40 480-131725-C-10		Client	SV	5.000	mL	1.000
480-0069537-041	#41 480-131725-C-11		Client	SV	5.000	mL	1.000
480-0069537-042	#42 480-131725-C-12		Client	SV	5.000	mL	0.0
480-0069537-043	#43 480-131725-C-13		Client	SV	5.000	mL	0.0
480-0069537-044	#44 480-131733-F-1	447mS@16C	Client	SV	5.000	mL	0.0
480-0069537-045	#45 480-131737-E-1	324mS@16C	Client	SV	5.000	mL	0.0
480-0069537-046	#46 480-131737-E-2	254mS@16C	Client	SV	5.000	mL	0.0
480-0069537-047	#47 480-131737-E-3	328mS@16C	Client	SV	5.000	mL	0.0
480-0069537-048	#48 480-131737-E-3 MS	IC_ANION_STD_00032	MS	SV	5.000	mL	0.0
480-0069537-049	#49 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069537-050	#50 CCB		CCB	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069537-051 	#51 MeOH 		Client	sv	5.000	mL	1.000
480-0069537-052 	#52 MeOH 		Client	sv	5.000	mL	1.000
480-0069537-053 	#53 Blank 		Client	sv	5.000	mL	1.000

07/03/2018

Ion Chromatography Data Review Checklist

LIMS Batch Number: <u>401728</u>		Worklist: <u>69537</u>		Instrument ID (circle one): IC1 <u>IC2</u> IC3	
Analyst/1 st Reviewer: <u>BS</u>		Method (circle): 300.0, 314.0, <u>9056</u> , 7199, SM4110, VFA		QC Type (circle): <u>Standard</u> QAPP Other	
Matrix (circle): Drinking Water Non-potable <u>Water</u> Solid Leachate					
Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		✓		✓	
2. Elution order of analytes in ICAL confirmed to be correct		✓		✓	
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		✓		✓	
4. ICV, second source: run before samples 90-110% recovery		✓		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓		✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		✓		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X			✓	If no, list details:
8. Pk Area:Height Difference (314.0 PD _{AM}): Before samples $< 25\%$	X			✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		✓		✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		✓		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓		✓	<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓		✓	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Method C. 03/07/18

TestAmerica [Buffalo]

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓		✓	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓		✓	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Out of control QC is clearly identified	✓		✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓		✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓		✓	
16. Run Log	✓		✓	
a. Unused data is clearly identified	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Analyst initials/signature provided	✓		✓	
17. TALS Samples Tab	✓		✓	
a. LIMS Sample IDs / Containers are correct	✓		✓	
b. Method and matrix are correct	✓		✓	
c. Date and time match raw data	✓		✓	
d. Dilutions are correct	✓		✓	
e. Correct suffix designated (where applicable)	✓		✓	
18. TALS Worksheet Tab is complete and correct	✓		✓	
19. TALS Reagent Tab is complete and correct	✓		✓	
20. TALS QC Links Tab is correct	✓		✓	
21. TALS Sample Results Tab	✓		✓	
a. All unused data are marked Rejected or Accepted	✓		✓	
b. All reported analytes are marked Primary or Secondary	✓		✓	
22. TALS Batch Information Screen documentation is complete	✓		✓	
23. TALS Status set to appropriate review level	✓		✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Naphat C. Review Date: 03/01/18

Comments: _____

Naphat C. 03/01/18

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180227B
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b
Upload Directory: \\CorpTALSAPP17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 69537
Chrom Method: IC2-300
Units: ul

cond std - 45 1413, 5025C (1270p 5025C)
daily cal 1276, 5 @ 21.5c

B. 401788







Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069537-001	# 1 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069537-002	# 2 CCB		CCB	sv	5.000	mL	1.000
480-0069537-003	# 3 LCS	IC_ANION_LCS_00191	LCS	sv	5.000	mL	1.000
480-0069537-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0069537-005	# 5 480-131137-C-2	110, 5015C	Client	sv	5.000	mL	0.0
480-0069537-006	# 6 480-131552-G-2		Client	sv	5.000	mL	50.00
480-0069537-007	# 7 480-131650-E-3		Client	100 L → 5 mL	5.000	mL	1.000
480-0069537-008	# 8 480-131650-E-4	65, 5016C	Client	sv	5.000	mL	0.0
480-0069537-009	# 9 480-131650-E-5		Client	2500 L → 5 mL	5.000	mL	1.000
480-0069537-010	# 10 480-131650-E-6	920, 5016C	Client	sv	5.000	mL	0.0
480-0069537-011	# 11 480-131650-E-6 MS	IC_ANION_STD_00032	MS	sv	5.000	mL	0.0
480-0069537-012	# 12 480-131650-E-6 MSD	IC_ANION_STD_00032	MSD	sv	5.000	mL	0.0
480-0069537-013	# 13 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069537-014	# 14 CCB		CCB	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vo/Wt	Vo/Wt Units	Dil Fact
480-0069537-015	#15 480-131653-G-1	1291 5016C X5	Client	sv	5.000	mL	0.0
480-0069537-016	#16 480-131665-H-1	10.2 5016C X50	Client	sv	5.000	mL	0.0
480-0069537-017	#17 480-131673-F-1	670 5016C X2	Client	sv	5.000	mL	0.0
480-0069537-018	#18 480-131673-G-2	304 5016C X1	Client	sv	5.000	mL	0.0
480-0069537-019	#19 480-131709-F-1	237 5016C X1	Client	sv	5.000	mL	0.0
480-0069537-020	#20 480-131723-E-1	171.3 5016C X1	Client	sv	5.000	mL	0.0
480-0069537-021	#21 480-131723-E-2	121.7 5016C X1	Client	sv	5.000	mL	0.0
480-0069537-022	#22 480-131725-C-1		Client	sv	5.000	mL	1.000
480-0069537-023	#23 480-131725-C-2	887 5016C X5	Client	sv	5.000	mL	0.0
480-0069537-024	#24 480-131725-C-2 MS	IC_ANION_STD_00032 X5	MS	sv	5.000	mL	0.0
480-0069537-025	#25 CCB	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069537-026	#26 CCB		CCB	sv	5.000	mL	1.000
480-0069537-027	#27 LCS	IC_ANION_LCS_00191	LCS	sv	5.000	mL	1.000
480-0069537-028	#28 MB		MB	sv	5.000	mL	1.000
480-0069537-029	#29 480-131725-C-3		Client	sv	5.000	mL	2.000
480-0069537-030	#30 480-131725-C-4		Client	sv	5.000	mL	1.000
480-0069537-031	#31 480-131725-C-5		Client	sv	5.000	mL	5.000
480-0069537-032	#32 480-131725-C-6		Client	sv	5.000	mL	5.000

Naphot C. 03/01/18

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069537-033	#33 480-131725-C-7	5.58m 5016C X 2	Client	sv	5.000	mL	2.000
480-0069537-034	#34 480-131725-C-8		Client	sv	5.000	mL	0.0
480-0069537-035	#35 480-131725-C-8 MS	IC_ANION_STD_00032 X 2	MS	sv	5.000	mL	0.0
480-0069537-036	#36 480-131725-C-8 MSD	IC_ANION_STD_00032 X 2	MSD	sv	5.000	mL	0.0
480-0069537-037	#37 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069537-038	#38 CCB		CCB	sv	5.000	mL	1.000
480-0069537-039	#39 480-131725-C-9		Client	sv	5.000	mL	1.000
480-0069537-040	#40 480-131725-C-10		Client	sv	5.000	mL	1.000
480-0069537-041	#41 480-131725-C-11		Client	sv	5.000	mL	1.000
480-0069537-042	#42 480-131725-C-12	4.26m 5016C X 2	Client	sv	5.000	mL	0.0
480-0069537-043	#43 480-131725-C-13	1105m 5016C X 5	Client	sv	5.000	mL	0.0
480-0069537-044	#44 480-131733-F-1	447m 5016C X 2	Client	sv	5.000	mL	0.0
480-0069537-045	#45 480-131737-E-1	3.24m 5016C X 10	Client	sv	5.000	mL	0.0
480-0069537-046	#46 480-131737-E-2	2.54m 5016C X 10	Client	sv	5.000	mL	0.0
480-0069537-047	#47 480-131737-E-3	3.28m 5016C X 10	Client	sv	5.000	mL	0.0
480-0069537-048	#48 480-131737-E-3 MS	IC_ANION_STD_00032 X 10	MS	sv	5.000	mL	0.0
480-0069537-049	#49 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069537-050	#50 CCB		CCB	sv	5.000	mL	1.000

Naphat C. Osorio

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069537-051 	#51 MeOH 		Client	sv	5.000	mL	1.000
480-0069537-052 	#52 MeOH 		Client	sv	5.000	mL	1.000
480-0069537-053 	#53 Blank 		Client	sv	5.000	mL	1.000

Naphat C. 03/01/18

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_361.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Feb-2018 21:58:41 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 361 Name: CCV
 Misc. Info.: Study: 480-0069537-025 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 13:55:10 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 13:55:10

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.637	2.637	0.000	293737	5.00	4.64	M
2 Chloride						M
3.380	3.380	0.000	1895841	50.0	50.1	M
3 Bromide						M
4.693	4.693	0.000	58247	5.00	4.96	M
4 Nitrate as N						M
4.890	4.890	0.000	376138	NC	NC	M
5 Sulfate						M
5.150	5.150	0.000	1588584	50.0	50.6	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191 Amount Added: 5.00 Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_361.d

Injection Date: 27-Feb-2018 21:58:41

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 25

Client ID:

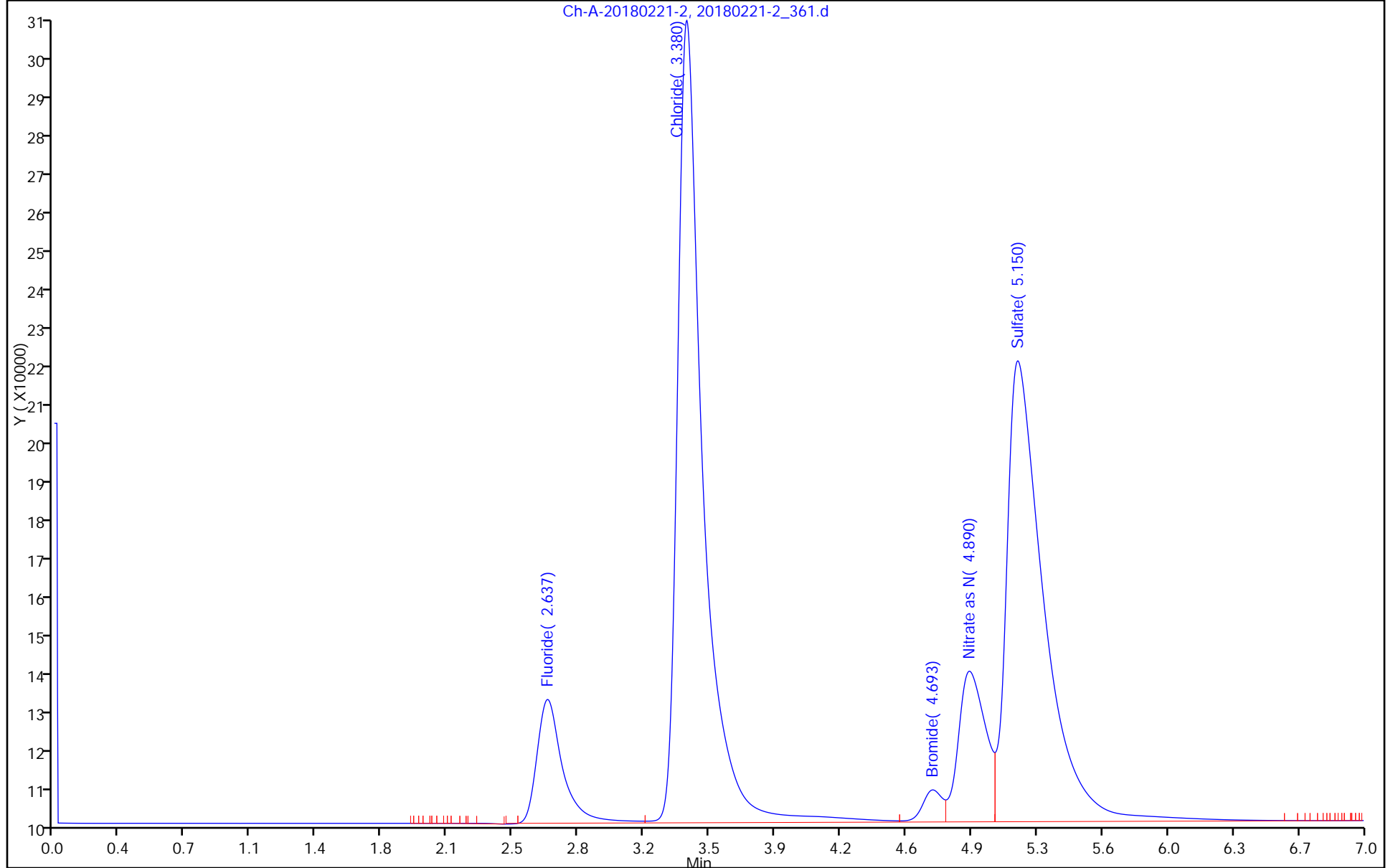
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

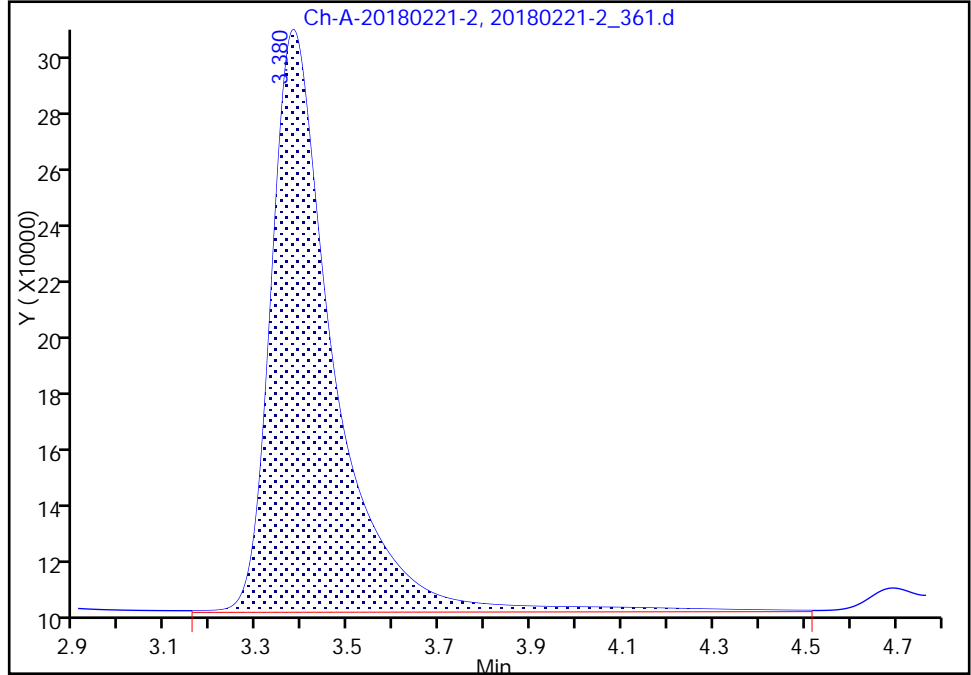
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_361.d
Injection Date: 27-Feb-2018 21:58:41 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

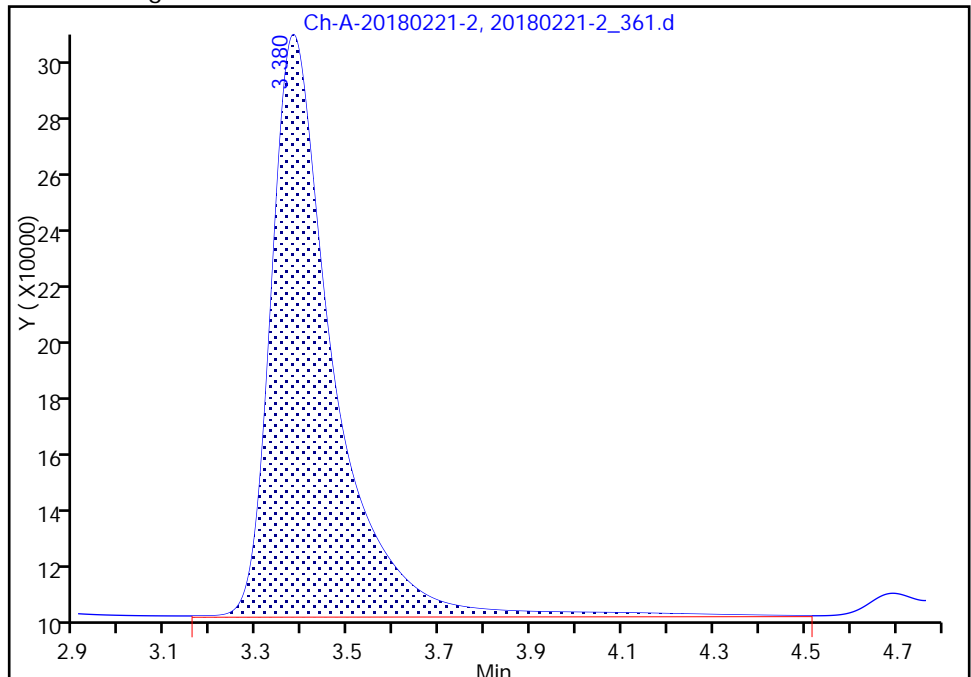
RT: 3.38
Area: 1904857
Amount: 50.357608
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1895841
Amount: 50.119257
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:55:05
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

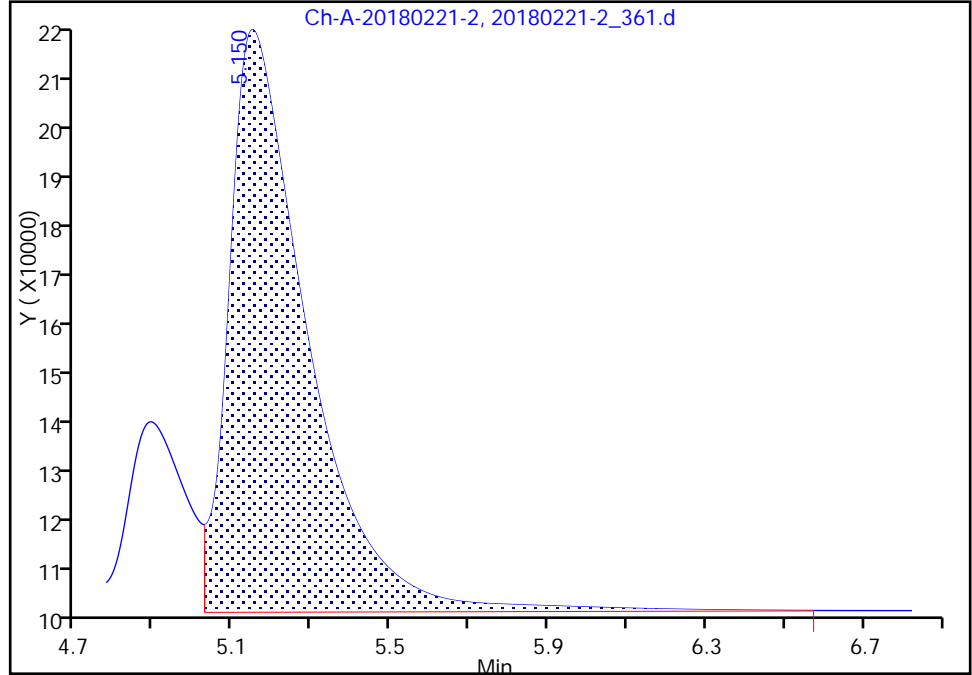
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_361.d
Injection Date: 27-Feb-2018 21:58:41 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

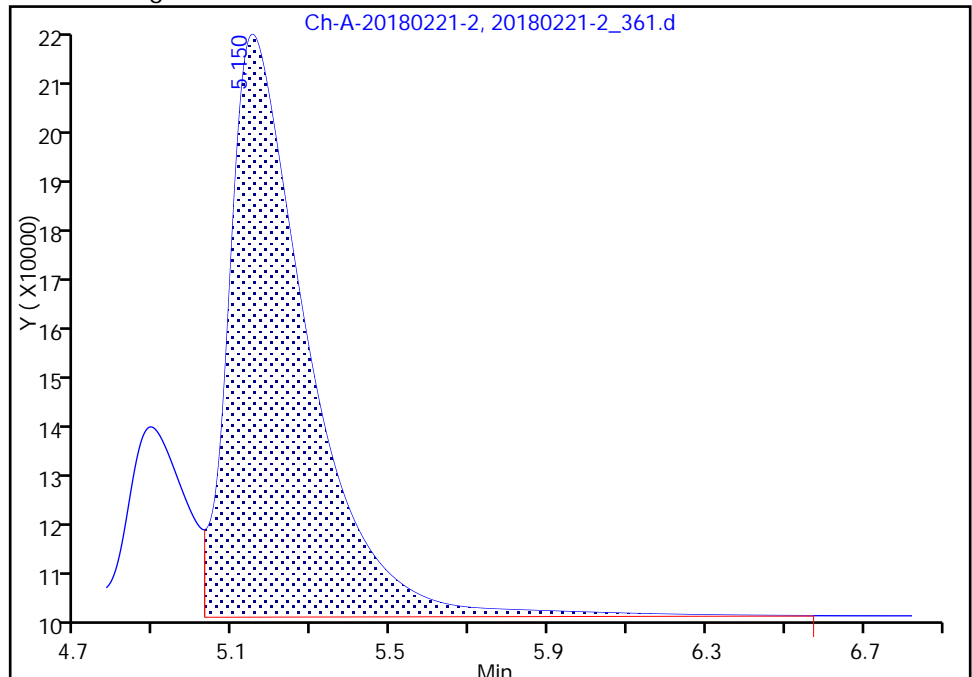
RT: 5.15
Area: 1592203
Amount: 50.763295
Amount Units: ng/uL

Processing Integration Results



RT: 5.15
Area: 1588584
Amount: 50.646079
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:55:05
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_362.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 27-Feb-2018 22:06:50 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 362 Name: CCB
 Misc. Info.: Study: 480-0069537-026 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 13:55:17 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 13:55:17

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate						a
5.337	5.150	0.187	18027		-0.2230	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_362.d

Injection Date: 27-Feb-2018 22:06:50

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 26

Client ID:

Injection Vol: 1.0 ul

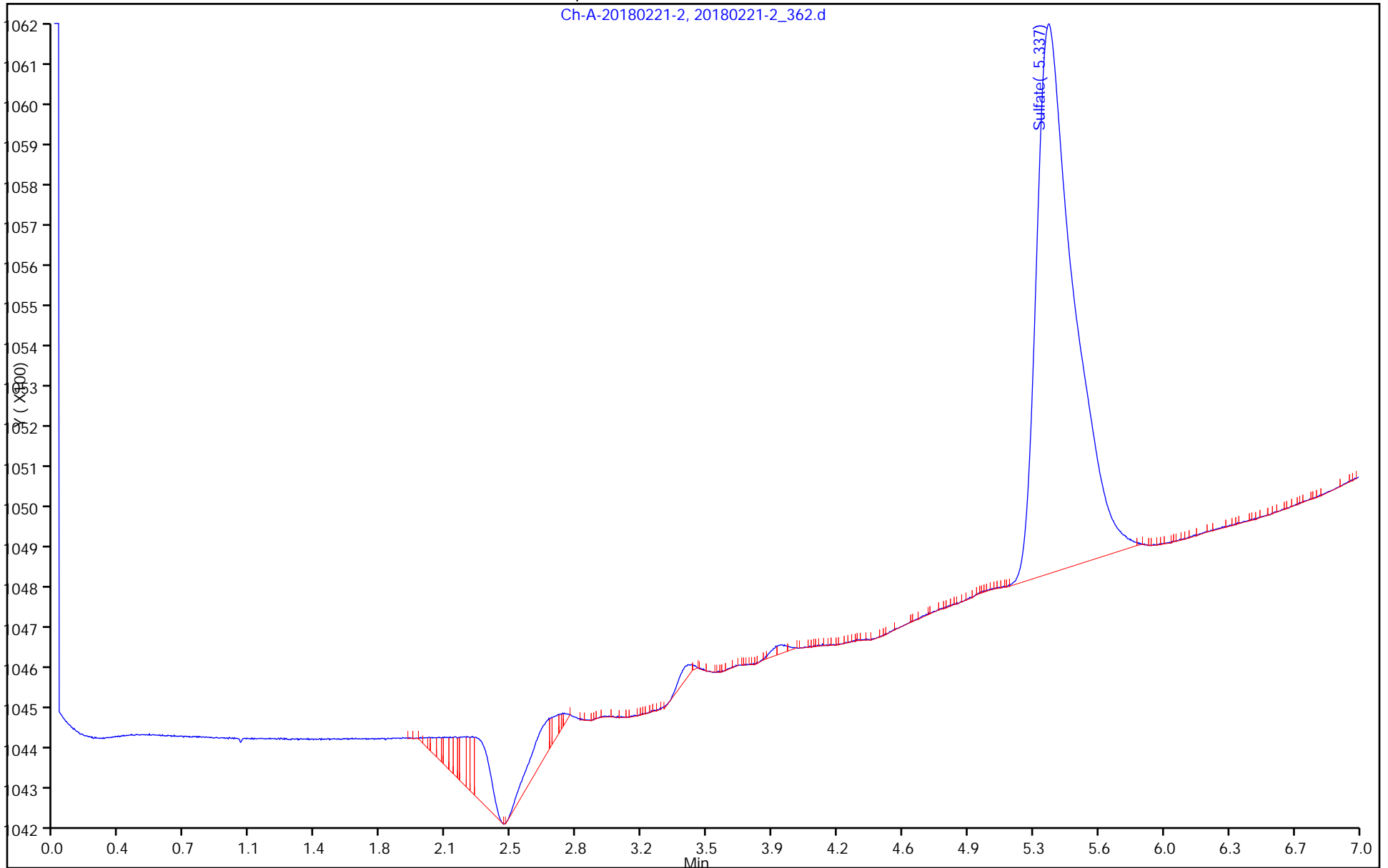
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180221-2, 20180221-2_362.d

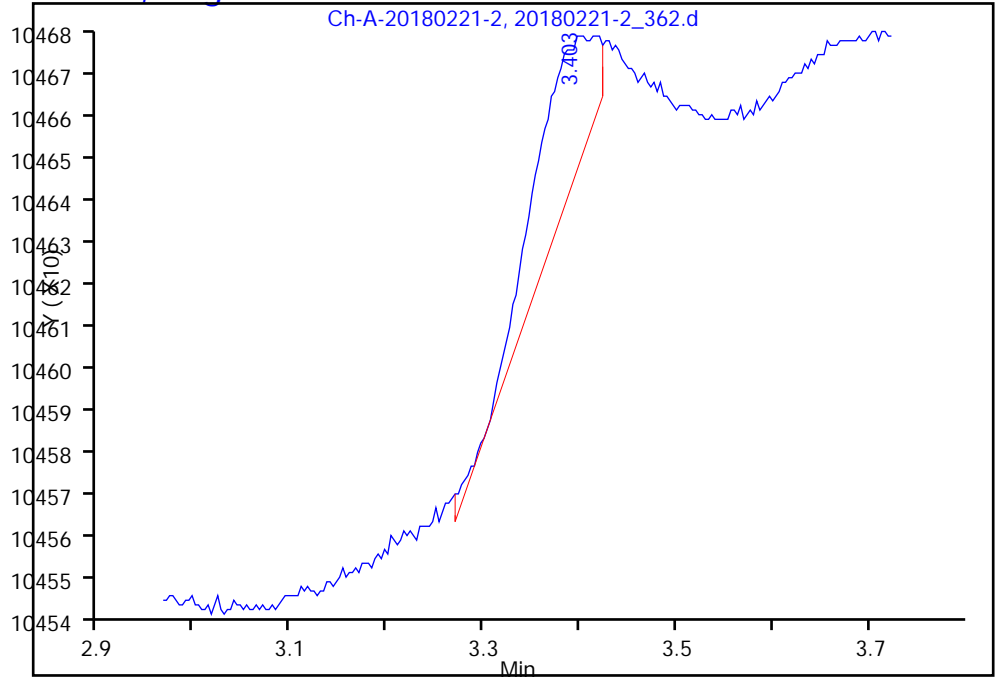


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_362.d
Injection Date: 27-Feb-2018 22:06:50 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 3.40
Response: 146
Amount: 0.003860



Reviewer: schickr, 28-Feb-2018 13:55:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

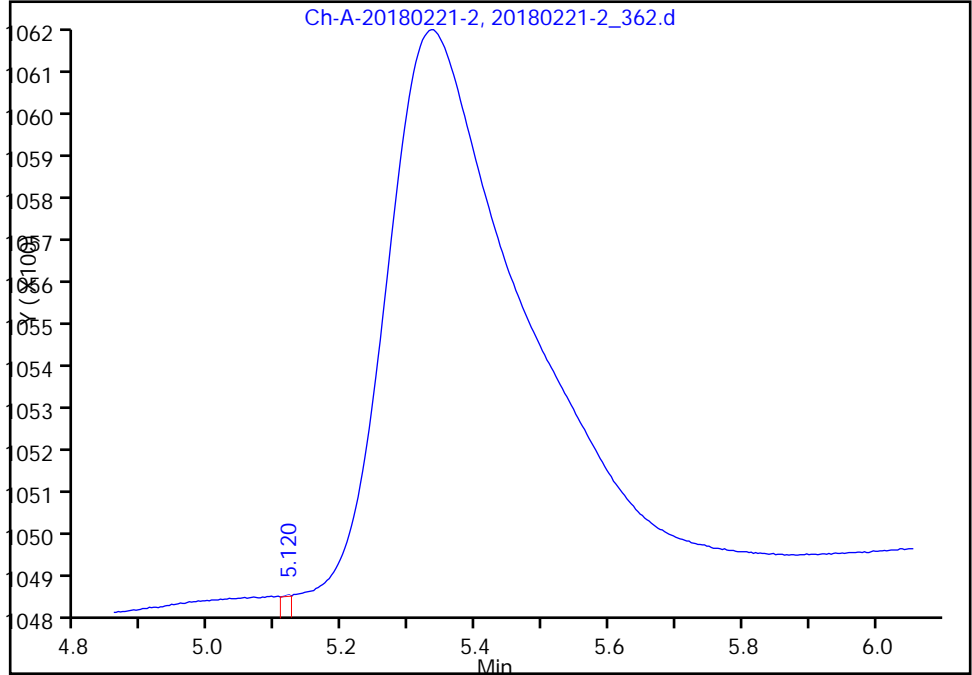
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_362.d
Injection Date: 27-Feb-2018 22:06:50 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

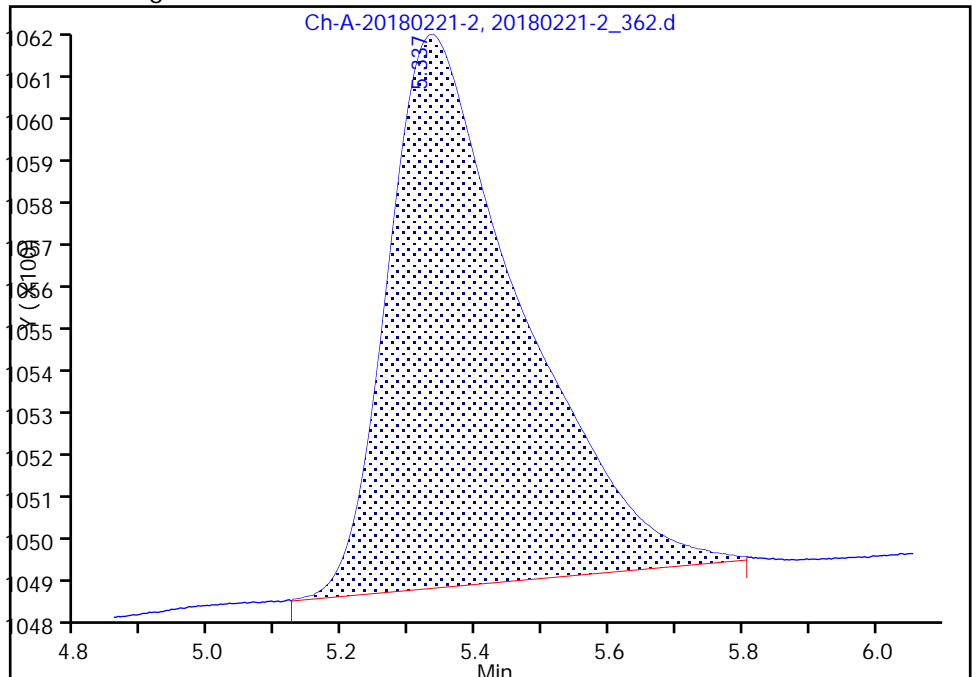
RT: 5.12
Area: 1
Amount: -0.806894
Amount Units: ng/uL

Processing Integration Results



RT: 5.34
Area: 18027
Amount: -0.223045
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:55:16

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_363.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Feb-2018 22:14:59 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 363 Name: LCS
 Misc. Info.: Study: 480-0069537-027 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 13:55:41 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 13:55:41

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.633	2.637	-0.004	294202	5.00	4.64	M
2 Chloride						M
3.380	3.380	0.000	1898794	50.0	50.2	M
3 Bromide						M
4.697	4.693	0.004	58634	5.00	4.99	M
4 Nitrate as N						M
4.890	4.890	0.000	372472	NC	NC	M
5 Sulfate						M
5.147	5.150	-0.003	1590382	50.0	50.7	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191

Amount Added: 5.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_363.d

Injection Date: 27-Feb-2018 22:14:59

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: LCS

Worklist Smp#: 27

Client ID:

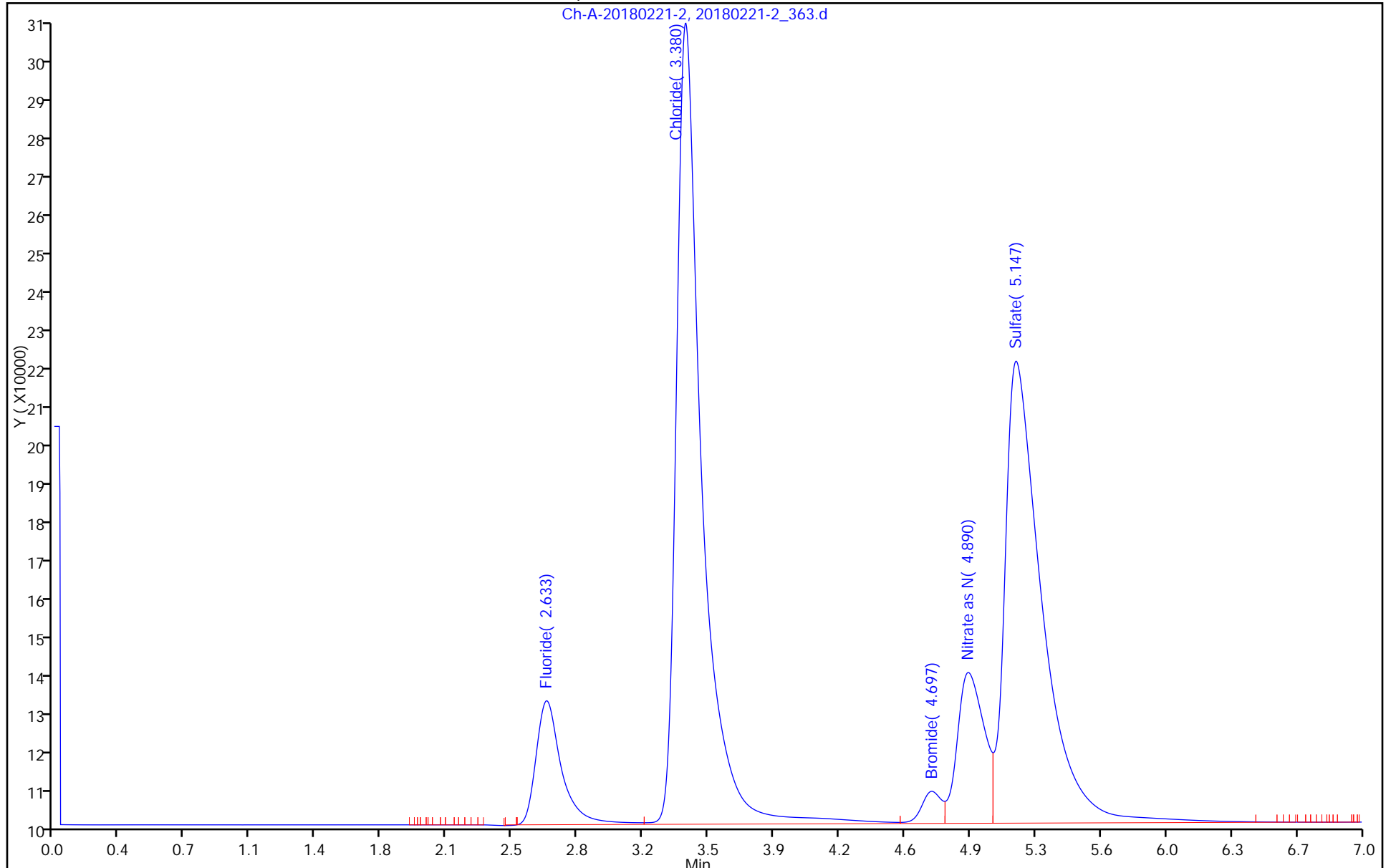
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

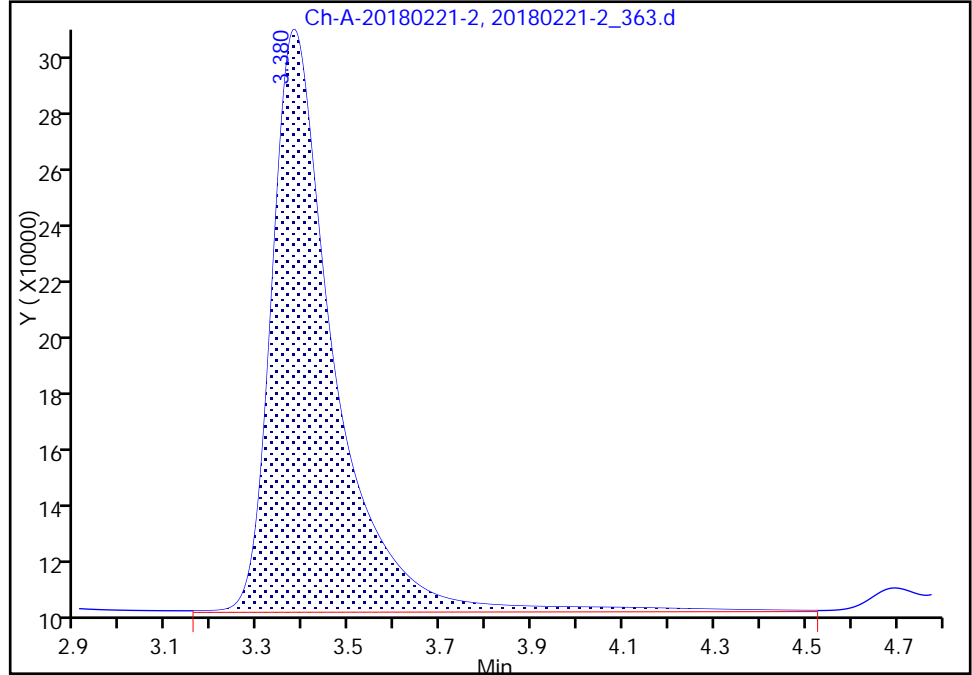
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_363.d
Injection Date: 27-Feb-2018 22:14:59 Instrument ID: IC-2
Lims ID: LCS
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

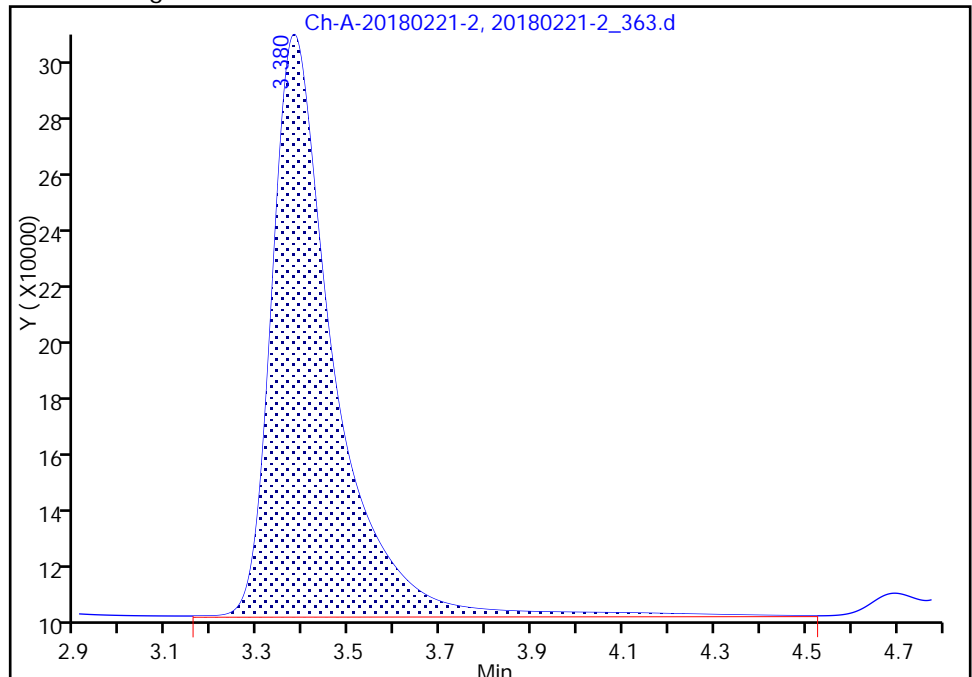
RT: 3.38
Area: 1907425
Amount: 50.425496
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1898794
Amount: 50.197324
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:55:33
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

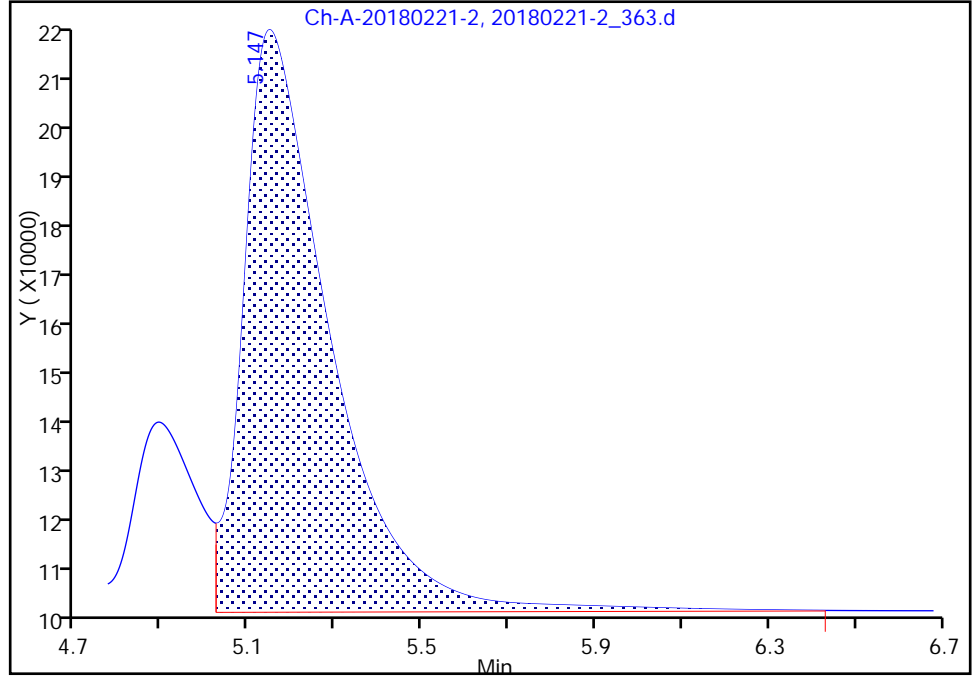
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_363.d
Injection Date: 27-Feb-2018 22:14:59 Instrument ID: IC-2
Lims ID: LCS
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

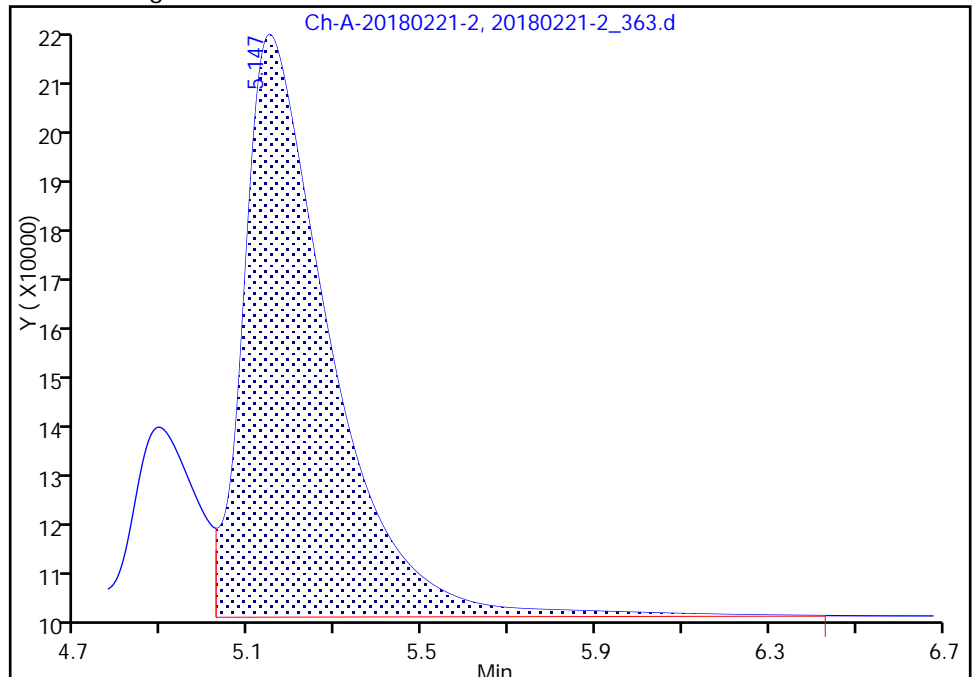
RT: 5.15
Area: 1592745
Amount: 50.780850
Amount Units: ng/uL

Processing Integration Results



RT: 5.15
Area: 1590382
Amount: 50.704315
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:55:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_364.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Feb-2018 22:23:07 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 364 Name: MB
 Misc. Info.: Study: 480-0069537-028 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 13:55:47 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 13:55:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 Nitrate as N						
4.883	4.890	-0.007	7		NC	
5 Sulfate						
5.333	5.150	0.183	16227	-0.2813	a	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_364.d

Injection Date: 27-Feb-2018 22:23:07

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: MB

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

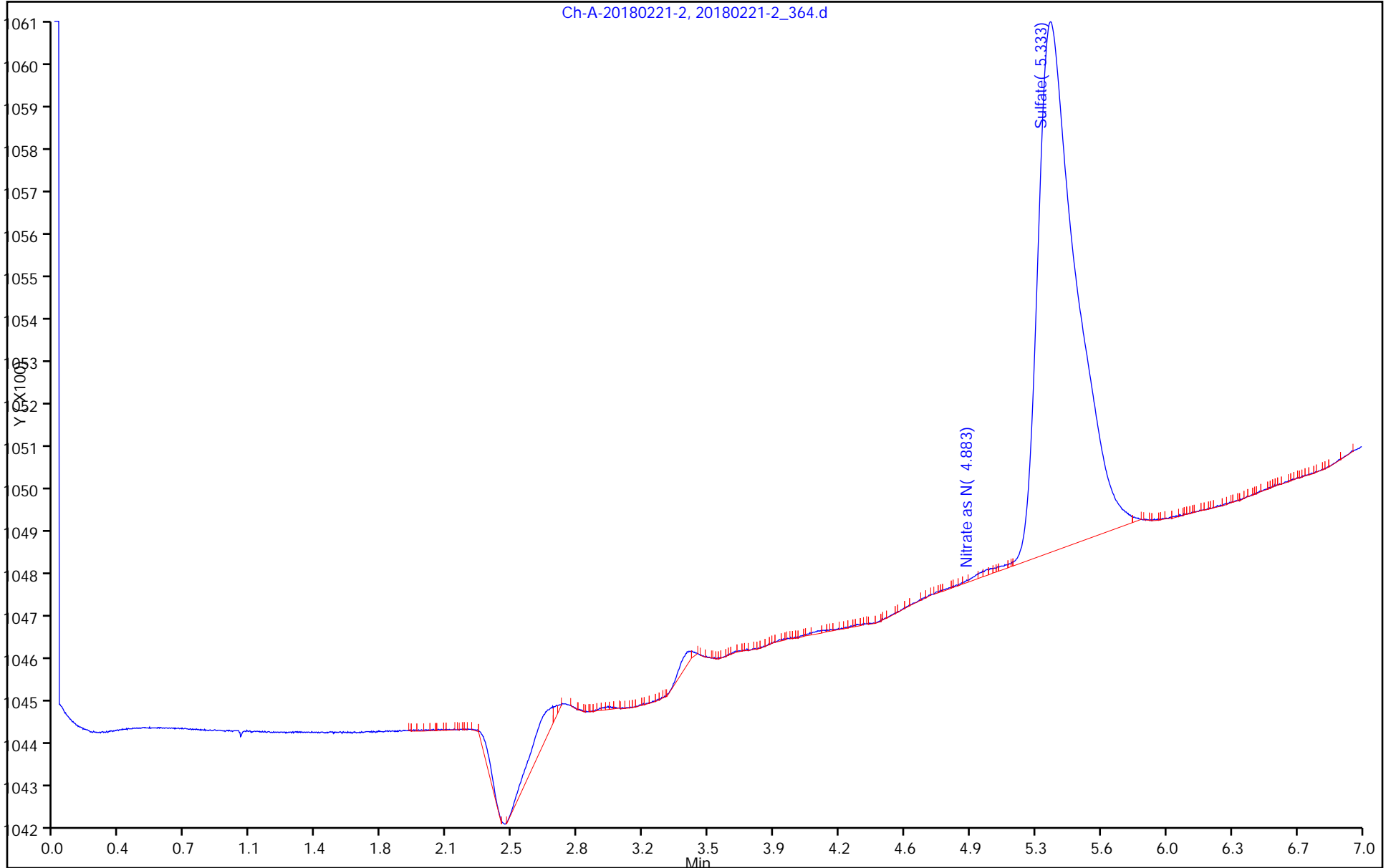
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180221-2, 20180221-2_364.d

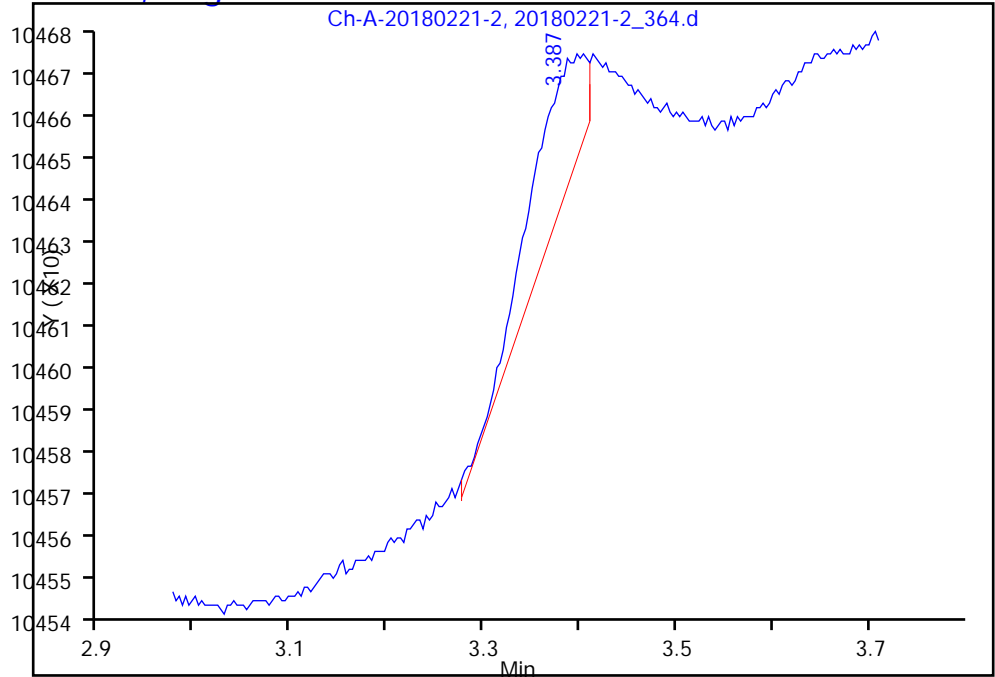


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_364.d
Injection Date: 27-Feb-2018 22:23:07 Instrument ID: IC-2
Lims ID: MB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 3.39
Response: 122
Amount: 0.003225



Reviewer: schickr, 28-Feb-2018 13:55:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

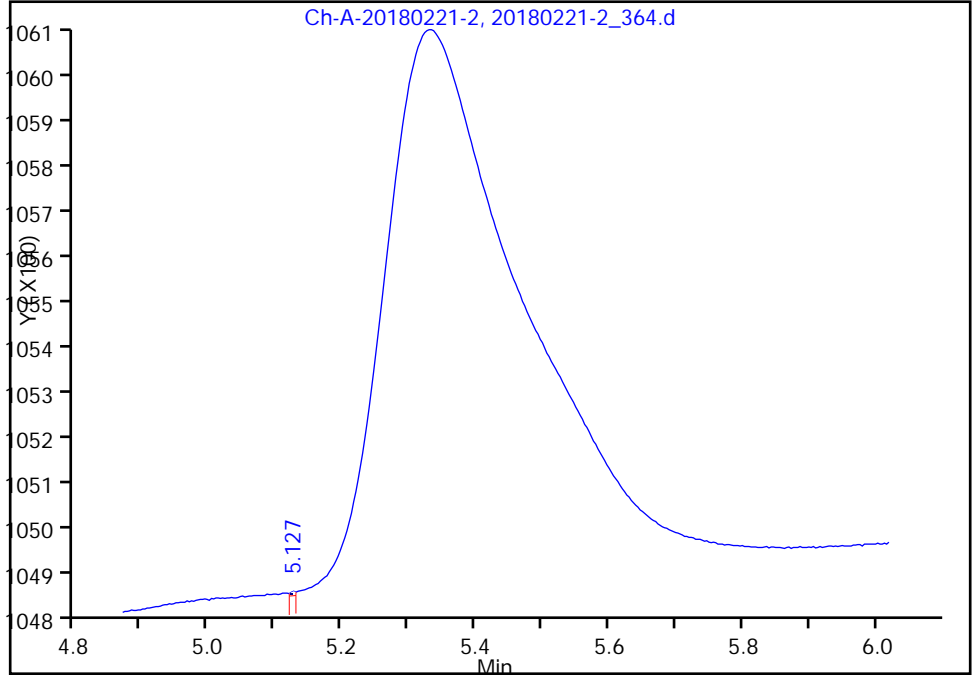
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_364.d
Injection Date: 27-Feb-2018 22:23:07 Instrument ID: IC-2
Lims ID: MB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

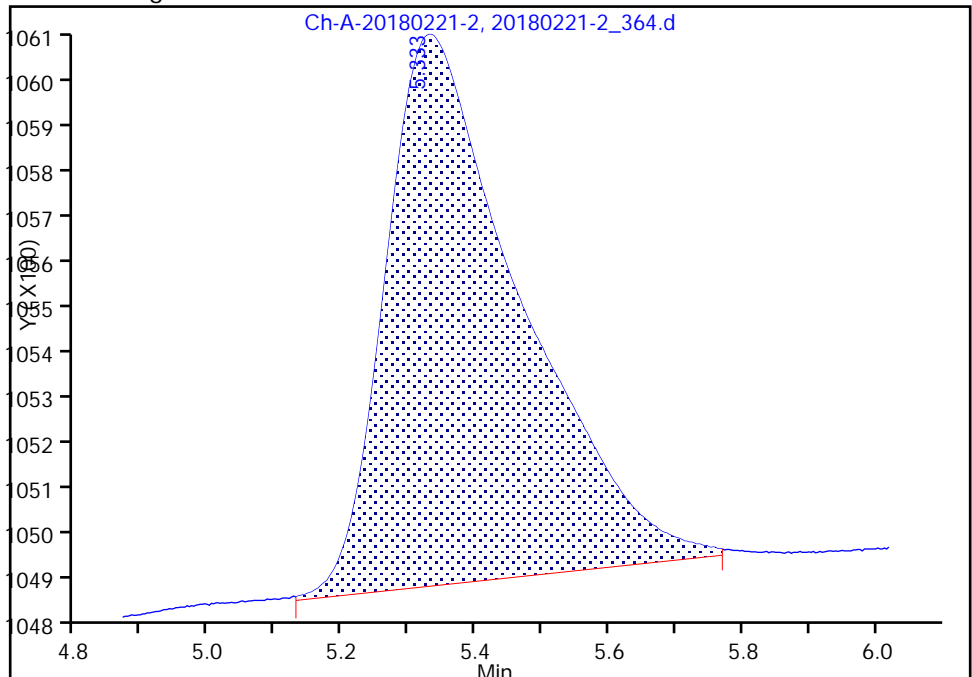
RT: 5.13
Area: 4
Amount: -0.806796
Amount Units: ng/uL

Processing Integration Results



RT: 5.33
Area: 16227
Amount: -0.281346
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:55:46

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_373.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Feb-2018 23:36:24 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 373 Name: CCV
 Misc. Info.: Study: 480-0069537-037 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 13:58:58 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 13:58:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.637	2.637	0.000	294479	5.00	4.65	M
2 Chloride						M
3.380	3.380	0.000	1901328	50.0	50.3	M
3 Bromide						M
4.697	4.697	0.000	58629	5.00	4.99	M
4 Nitrate as N						M
4.890	4.890	0.000	367988	NC	NC	M
5 Sulfate						M
5.140	5.140	0.000	1593238	50.0	50.8	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191 Amount Added: 5.00 Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_373.d

Injection Date: 27-Feb-2018 23:36:24

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 37

Client ID:

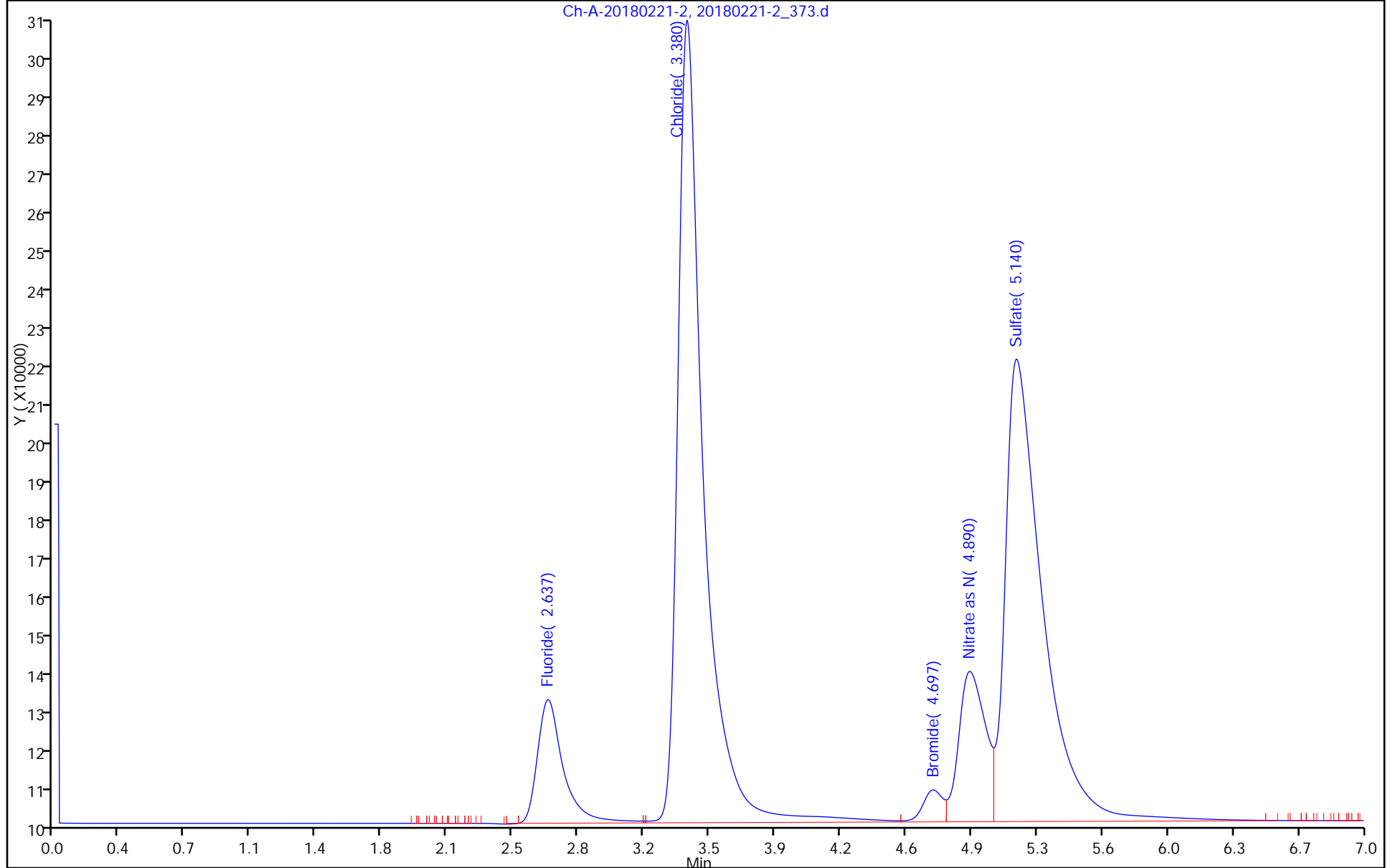
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

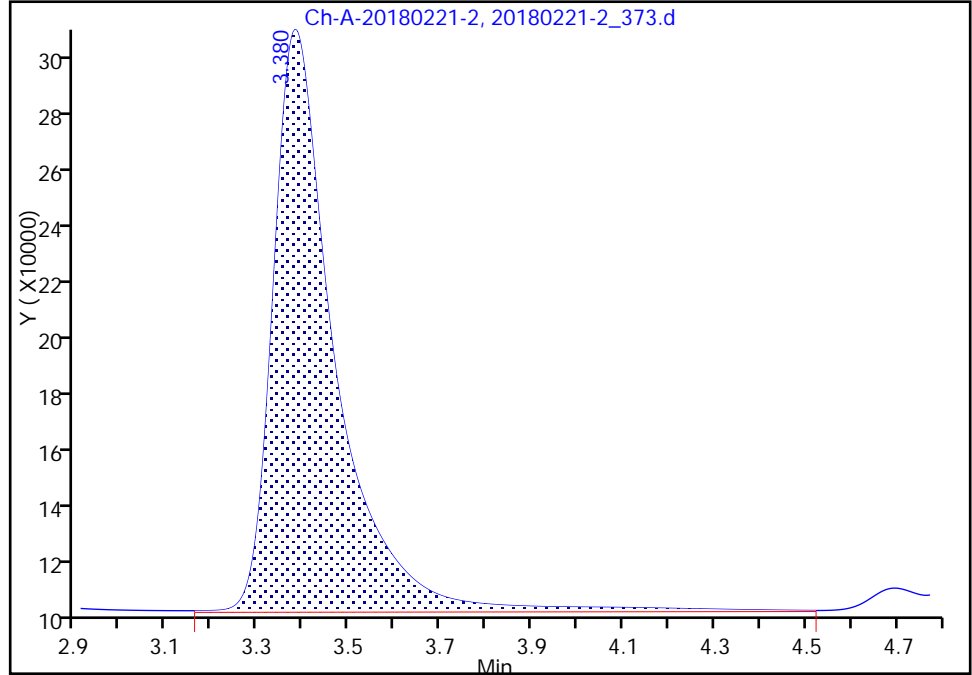
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_373.d
Injection Date: 27-Feb-2018 23:36:24 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

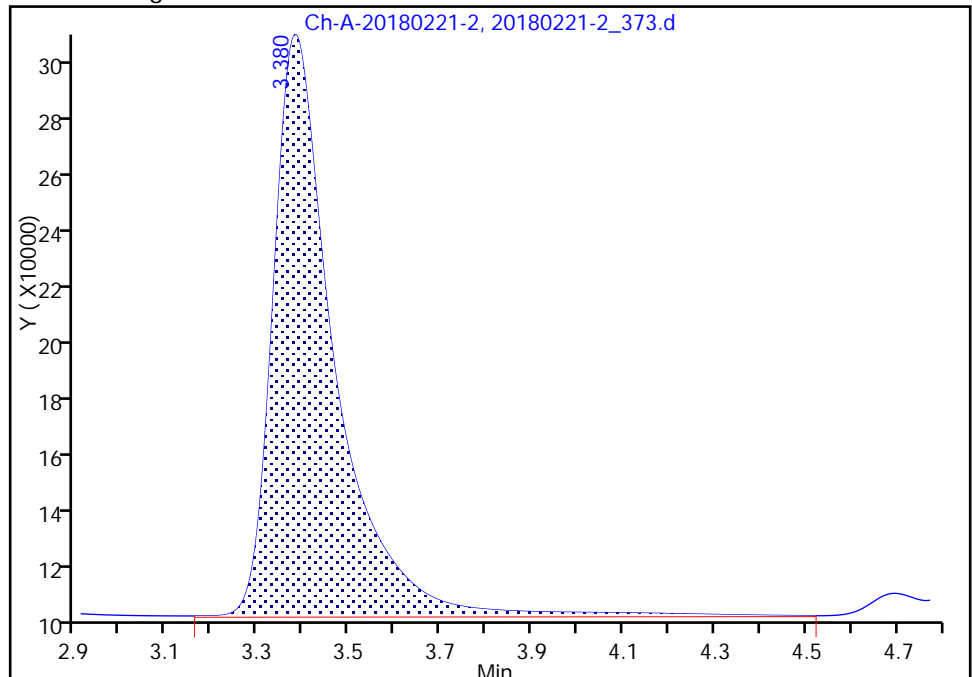
RT: 3.38
Area: 1908731
Amount: 50.460022
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1901328
Amount: 50.264314
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:58:54
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

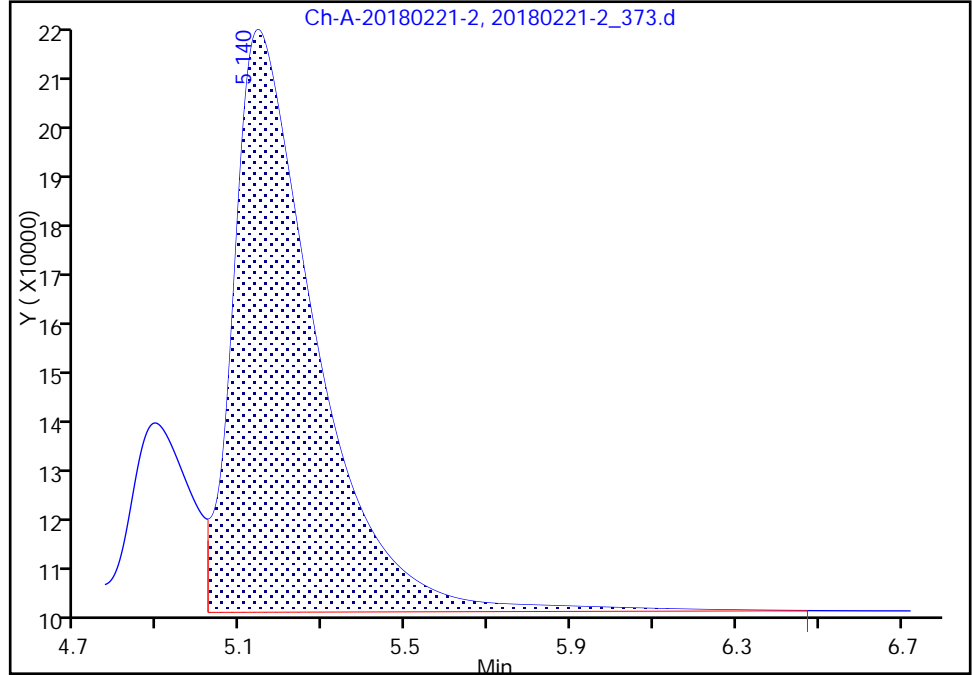
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_373.d
Injection Date: 27-Feb-2018 23:36:24 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

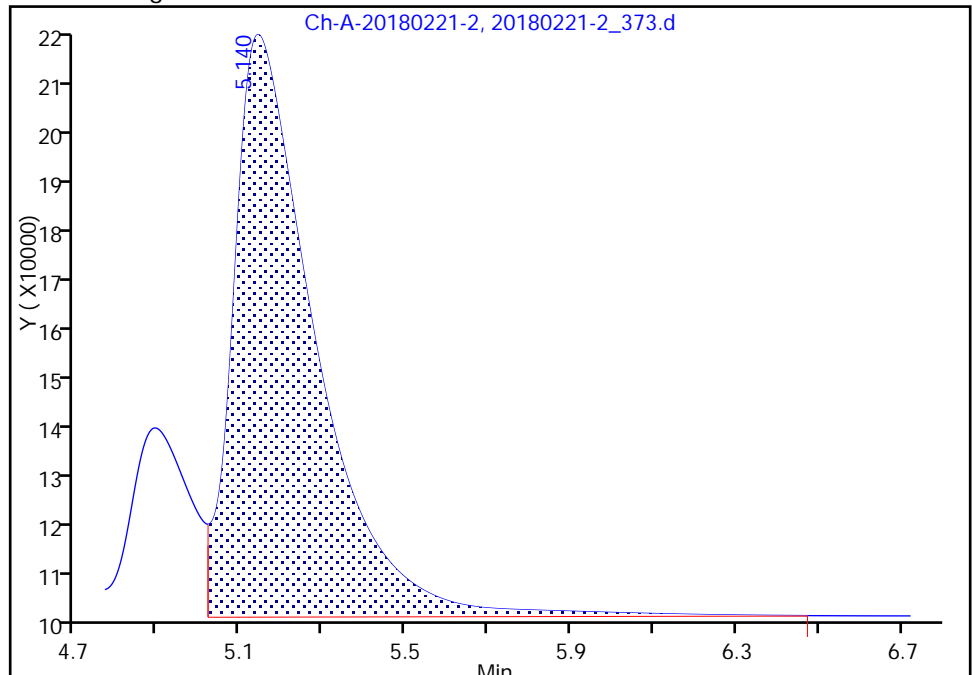
RT: 5.14
Area: 1592279
Amount: 50.765757
Amount Units: ng/uL

Processing Integration Results



RT: 5.14
Area: 1593238
Amount: 50.796818
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:58:54
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_374.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 27-Feb-2018 23:44:32 ALS Bottle#: 0 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 374 Name: CCB
 Misc. Info.: Study: 480-0069537-038 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 13:59:05 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 13:59:05

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 Nitrate as N						
4.877	4.890	-0.013	35		NC	
5 Sulfate						a
5.327	5.140	0.187	18333	-0.2131		a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_374.d

Injection Date: 27-Feb-2018 23:44:32

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

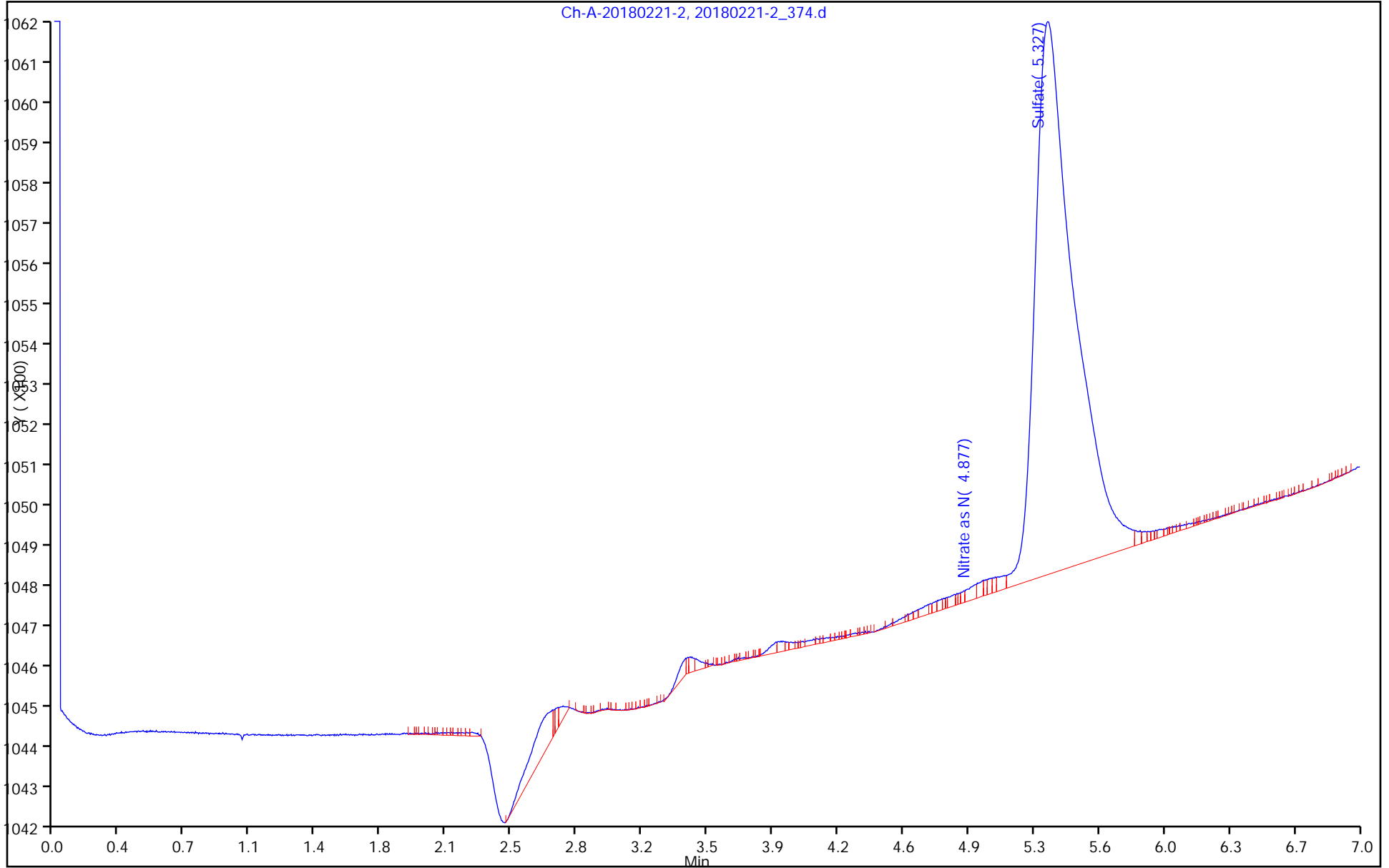
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180221-2, 20180221-2_374.d

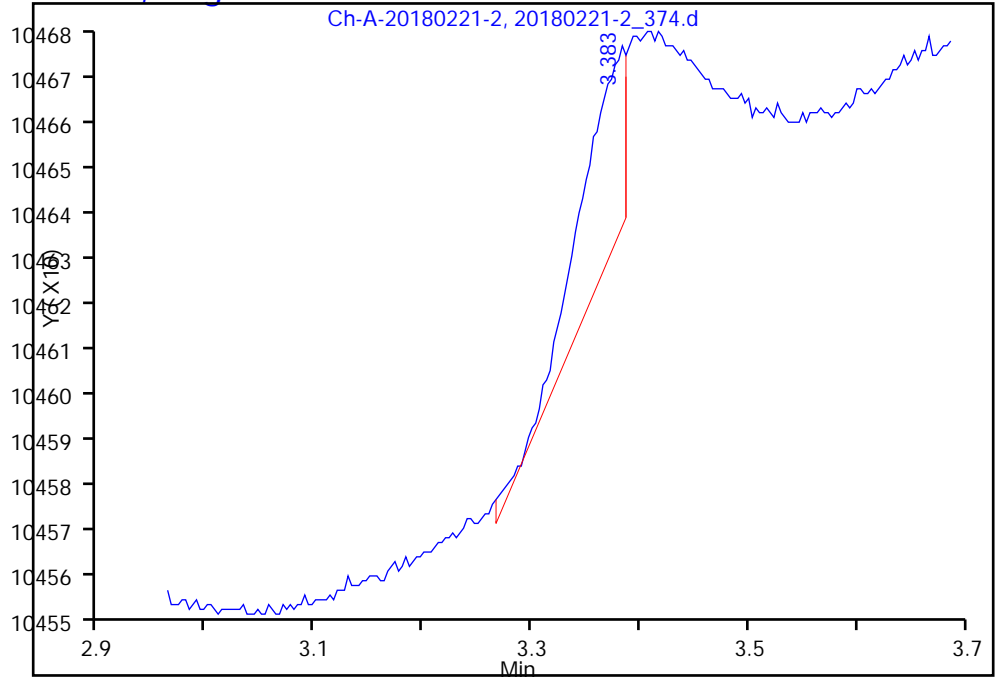


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_374.d
Injection Date: 27-Feb-2018 23:44:32 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 3.38
Response: 117
Amount: 0.003093



Reviewer: schickr, 28-Feb-2018 13:59:05

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

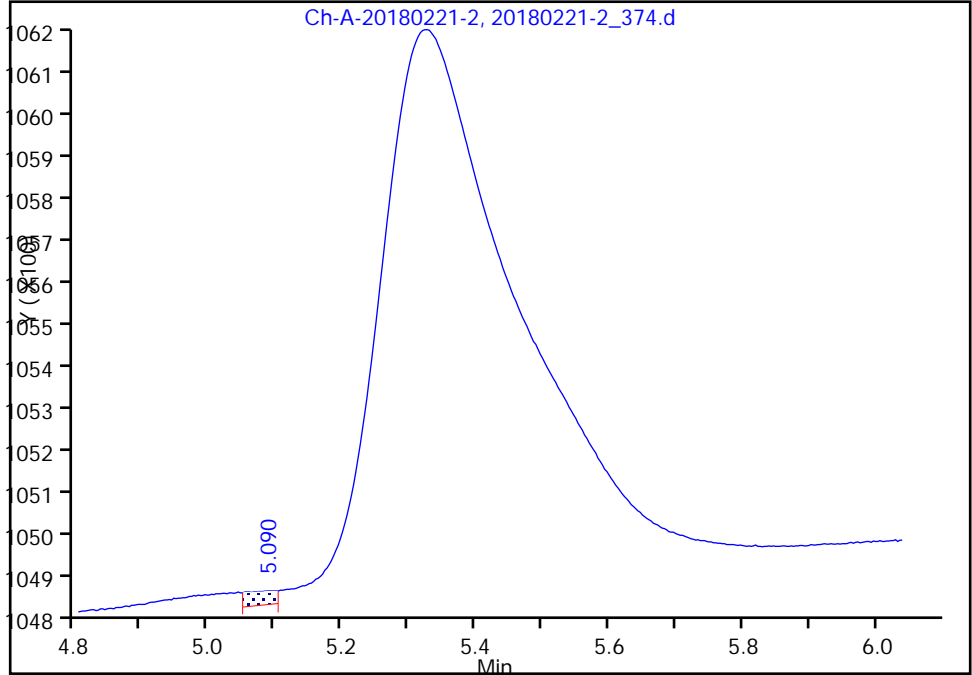
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_374.d
Injection Date: 27-Feb-2018 23:44:32 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

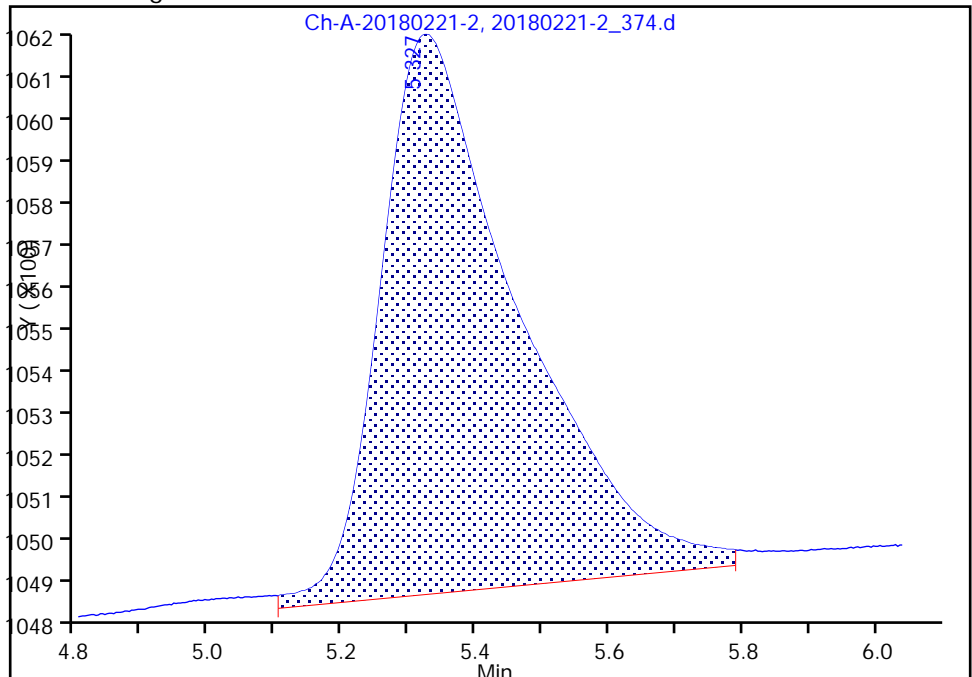
RT: 5.09
Area: 99
Amount: -0.803719
Amount Units: ng/uL

Processing Integration Results



RT: 5.33
Area: 18333
Amount: -0.213134
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 13:59:04
Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_381.d
 Lims ID: 480-131737-E-1
 Client ID: ML-2S
 Sample Type: Client
 Inject. Date: 28-Feb-2018 00:41:32 ALS Bottle#: 0 Worklist Smp#: 45
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 381 Name: 480-131737-E-1
 Misc. Info.: Study: 480-0069537-045 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 14:01:14 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 14:01:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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2 Chloride					M
3.380	3.380	0.000	1474591	39.0	M
5 Sulfate					Ma
5.263	5.140	0.123	81112	1.82	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_381.d

Injection Date: 28-Feb-2018 00:41:32

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-1

Lab Sample ID: 480-131737-1

Worklist Smp#: 45

Client ID: ML-2S

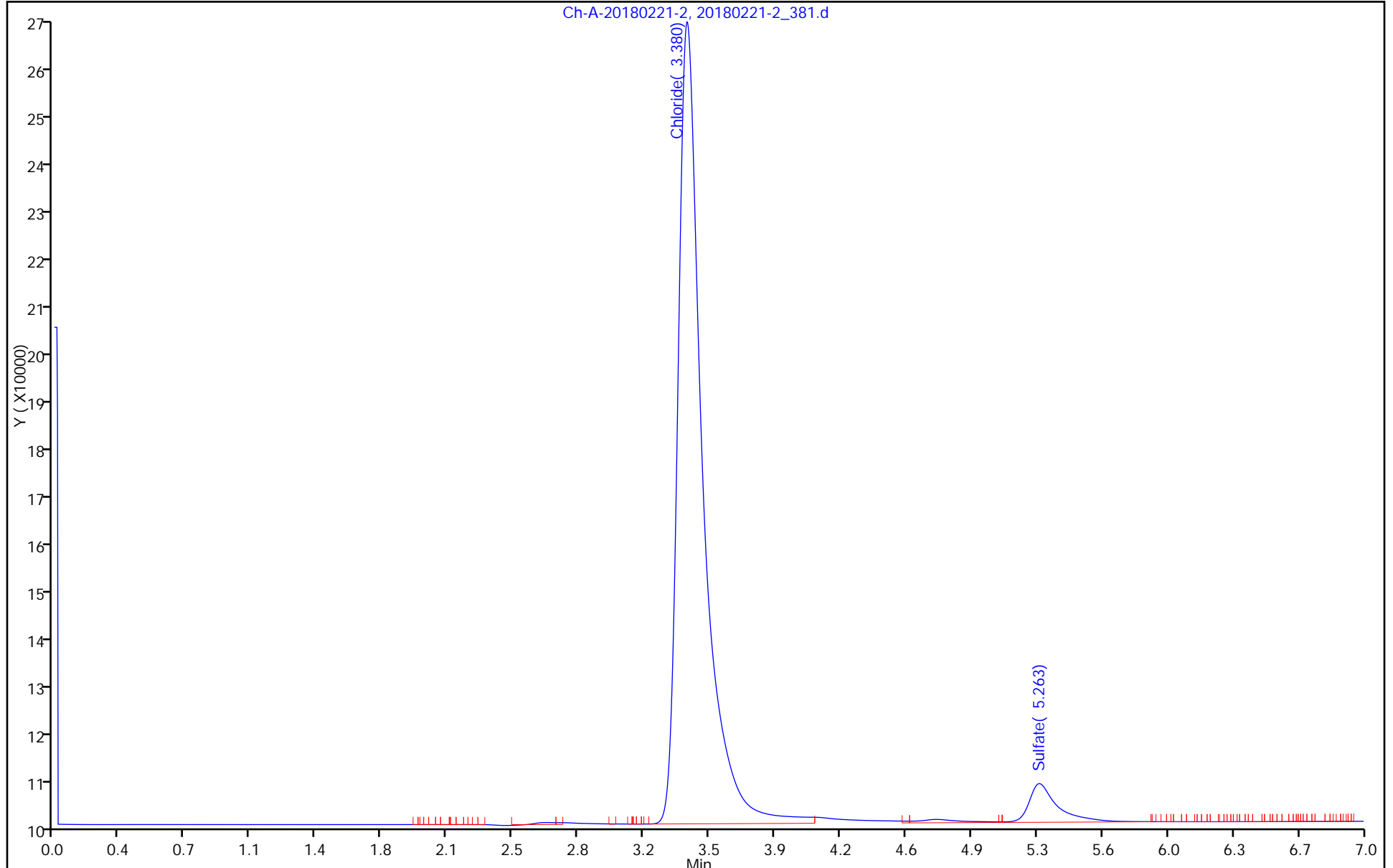
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

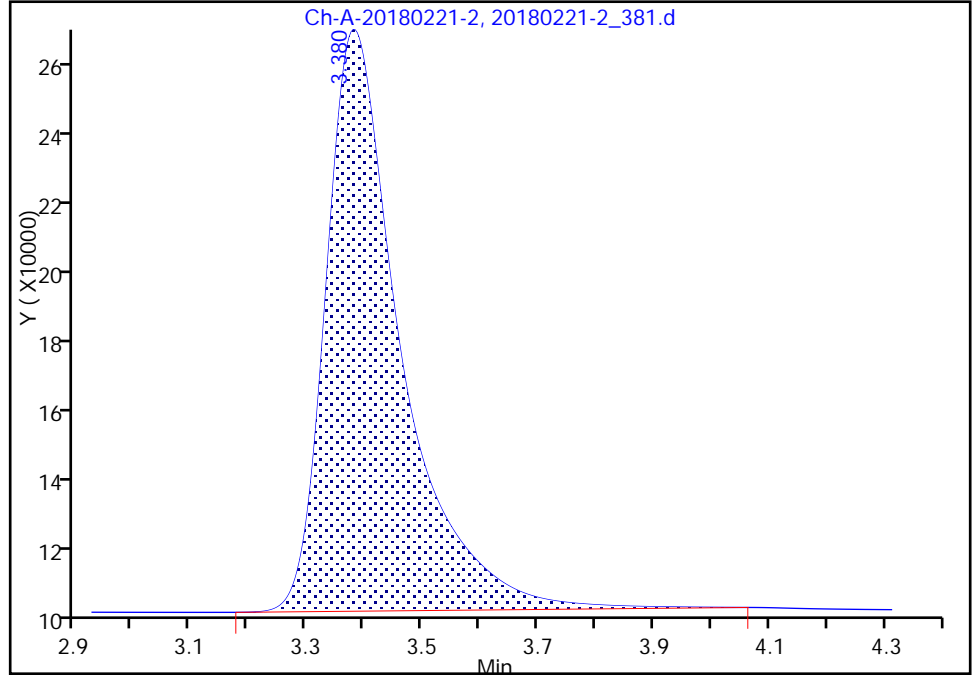
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_381.d
Injection Date: 28-Feb-2018 00:41:32 Instrument ID: IC-2
Lims ID: 480-131737-E-1 Lab Sample ID: 480-131737-1
Client ID: ML-2S
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

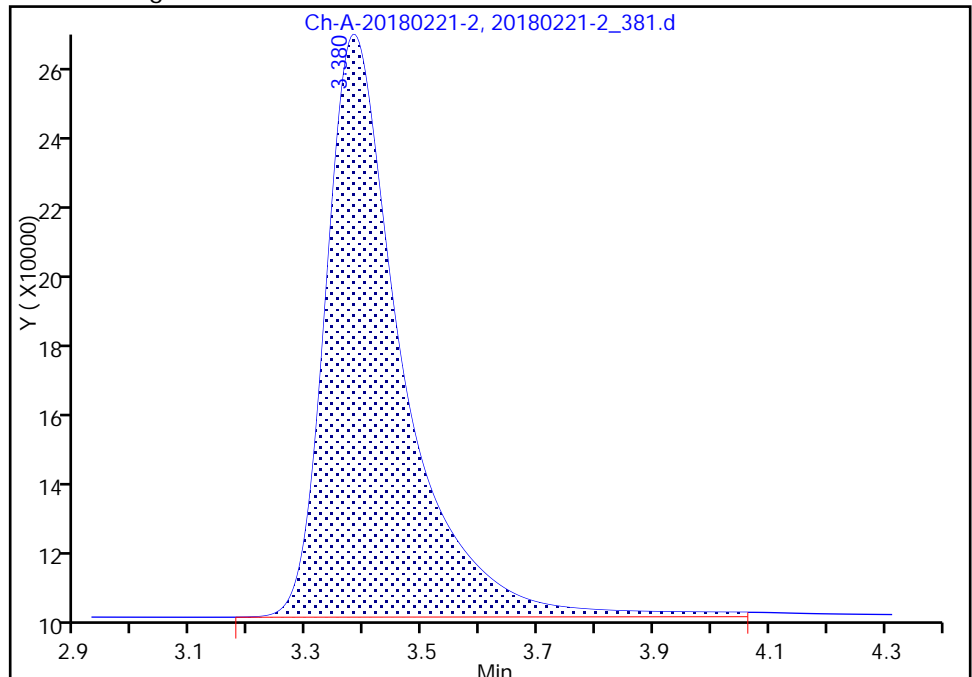
RT: 3.38
Area: 1442698
Amount: 38.139776
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1474591
Amount: 38.982913
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:01:13
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

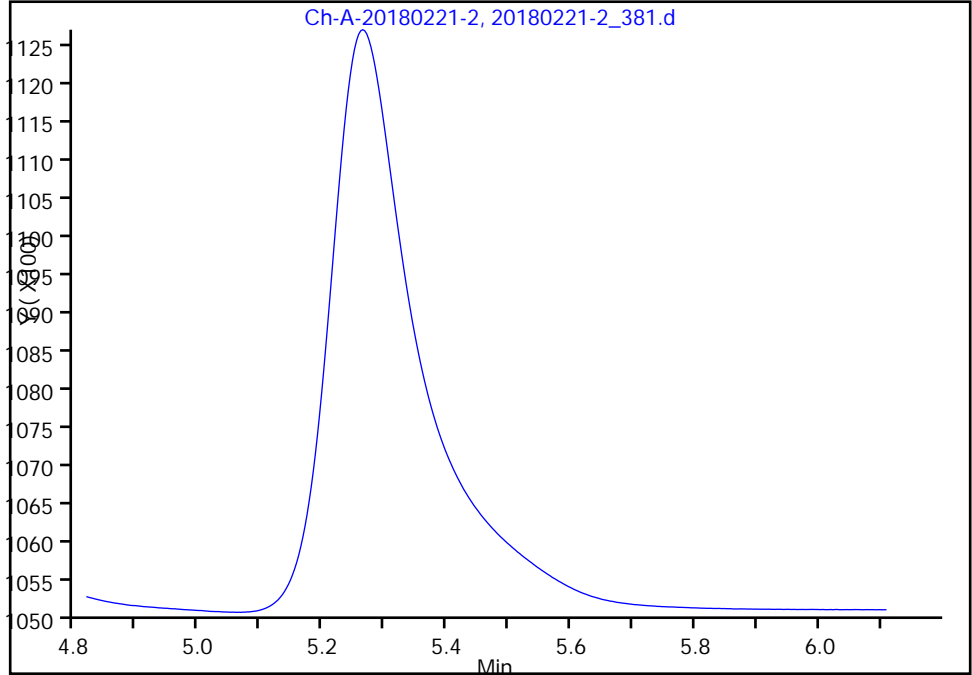
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_381.d
Injection Date: 28-Feb-2018 00:41:32 Instrument ID: IC-2
Lims ID: 480-131737-E-1 Lab Sample ID: 480-131737-1
Client ID: ML-2S
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 45
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

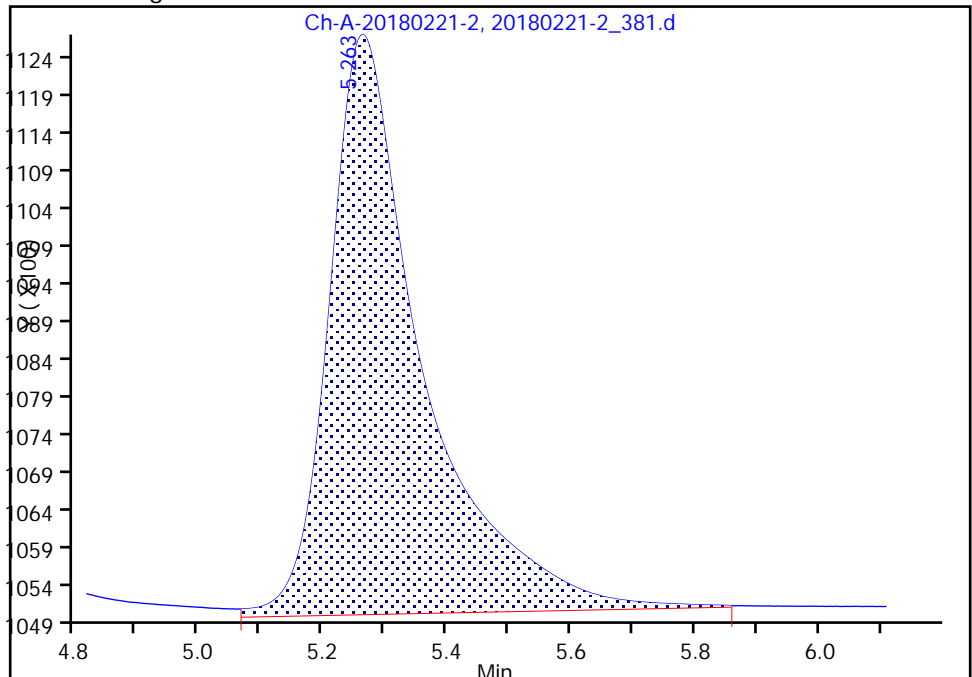
Not Detected
Expected RT: 5.14

Processing Integration Results



RT: 5.26
Area: 81112
Amount: 1.820229
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:01:13
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_382.d
 Lims ID: 480-131737-E-2
 Client ID: ML-2I
 Sample Type: Client
 Inject. Date: 28-Feb-2018 00:49:40 ALS Bottle#: 0 Worklist Smp#: 46
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 382 Name: 480-131737-E-2
 Misc. Info.: Study: 480-0069537-046 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 14:01:38 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 14:01:38

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
2 Chloride					M
3.380	3.380	0.000	1607274	42.5	M
5 Sulfate					Ma
5.267	5.140	0.127	61019	1.17	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_382.d

Injection Date: 28-Feb-2018 00:49:40

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-2

Lab Sample ID: 480-131737-2

Worklist Smp#: 46

Client ID: ML-2I

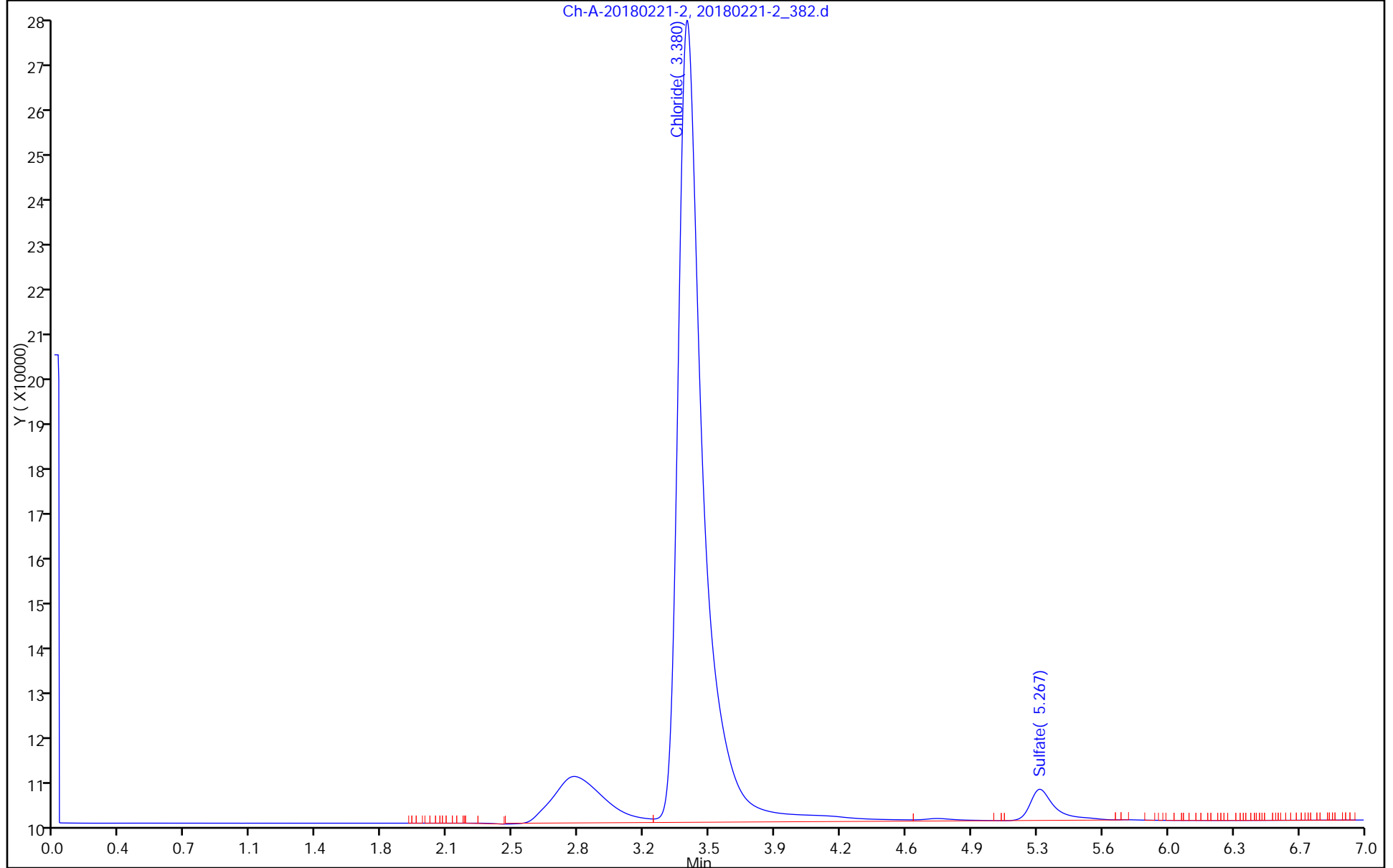
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

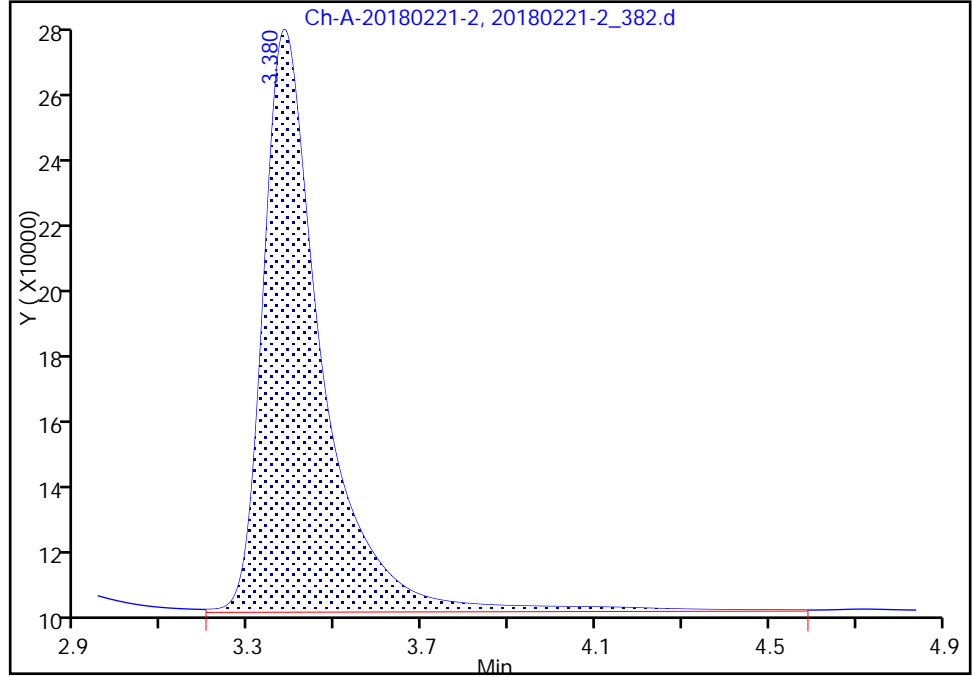
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_382.d
Injection Date: 28-Feb-2018 00:49:40 Instrument ID: IC-2
Lims ID: 480-131737-E-2 Lab Sample ID: 480-131737-2
Client ID: ML-2I
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

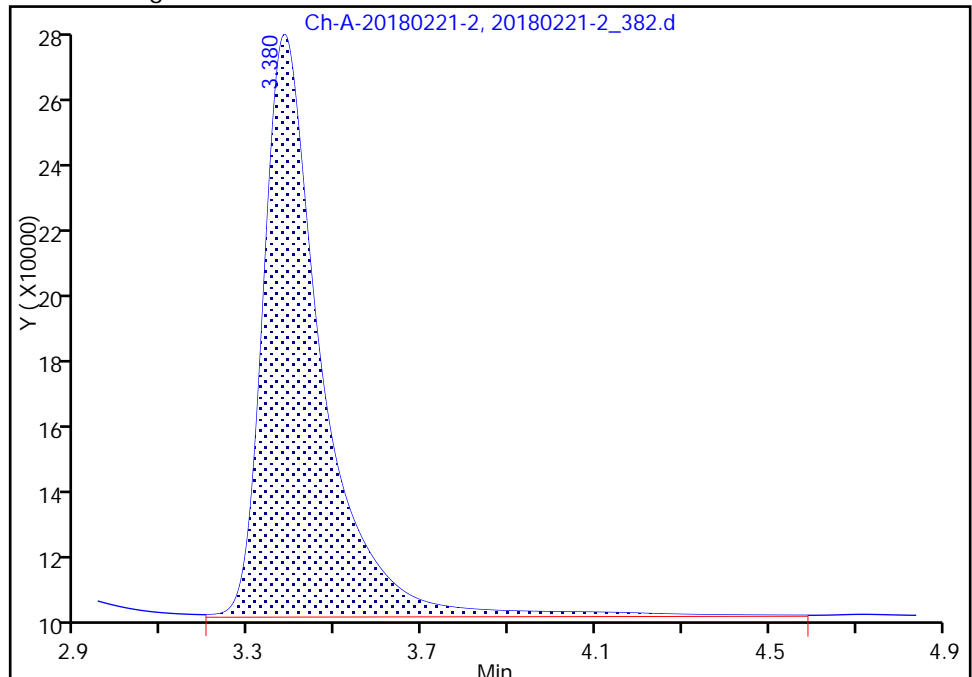
RT: 3.38
Area: 1613070
Amount: 42.643803
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1607274
Amount: 42.490577
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:01:36
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

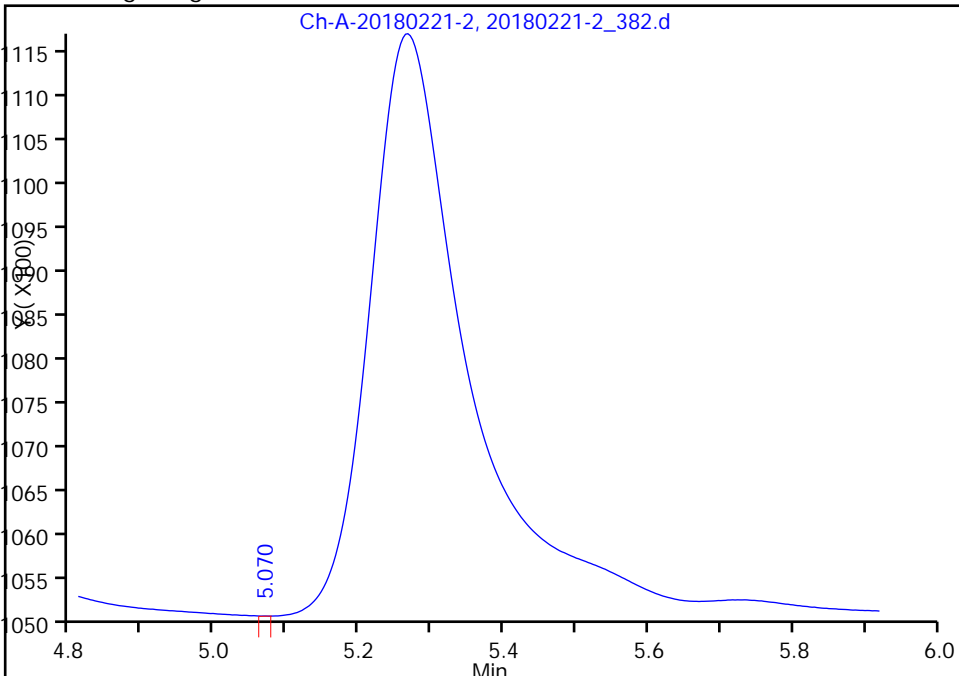
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_382.d
Injection Date: 28-Feb-2018 00:49:40 Instrument ID: IC-2
Lims ID: 480-131737-E-2 Lab Sample ID: 480-131737-2
Client ID: ML-2I
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 46
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

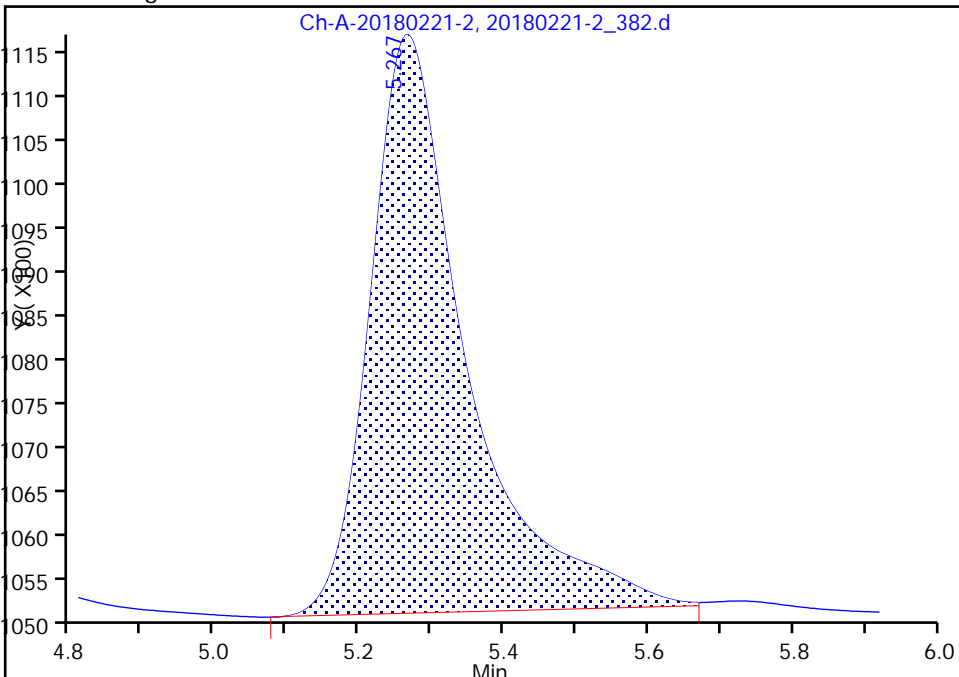
RT: 5.07
Area: 2
Amount: -0.806861
Amount Units: ng/uL

Processing Integration Results



RT: 5.27
Area: 61019
Amount: 1.169432
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:01:36
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_383.d
 Lims ID: 480-131737-E-3
 Client ID: ML-2D
 Sample Type: Client
 Inject. Date: 28-Feb-2018 00:57:49 ALS Bottle#: 0 Worklist Smp#: 47
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 383 Name: 480-131737-E-3
 Misc. Info.: Study: 480-0069537-047 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 14:02:06 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 14:02:06

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
2 Chloride					M
3.383	3.380	0.003	1583899	41.9	M
5 Sulfate					Ma
5.263	5.140	0.123	36174	0.3647	M

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_383.d

Injection Date: 28-Feb-2018 00:57:49

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-3

Lab Sample ID: 480-131737-3

Worklist Smp#: 47

Client ID: ML-2D

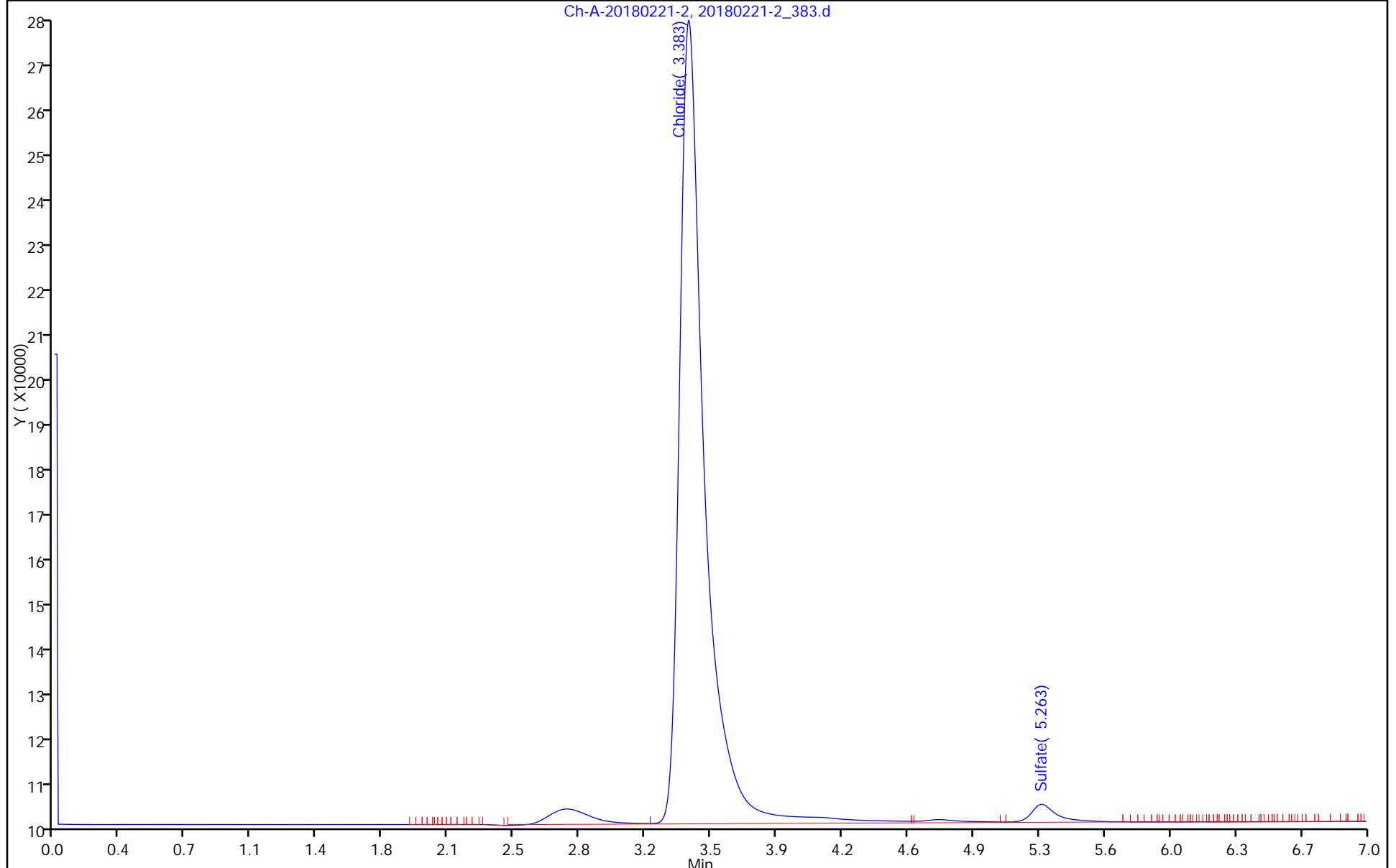
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

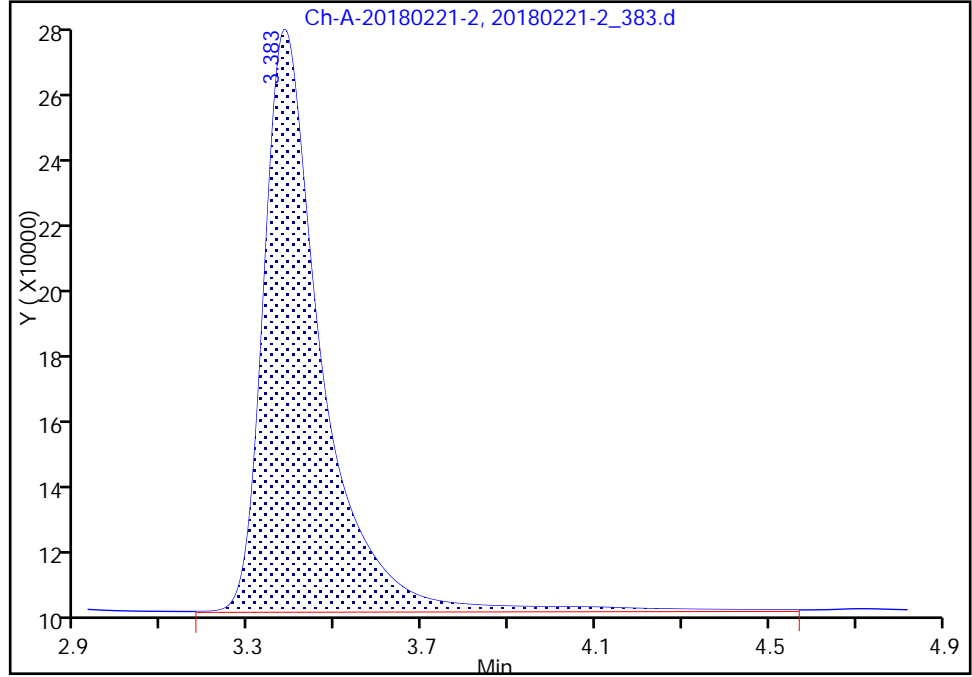
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_383.d
Injection Date: 28-Feb-2018 00:57:49 Instrument ID: IC-2
Lims ID: 480-131737-E-3 Lab Sample ID: 480-131737-3
Client ID: ML-2D
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

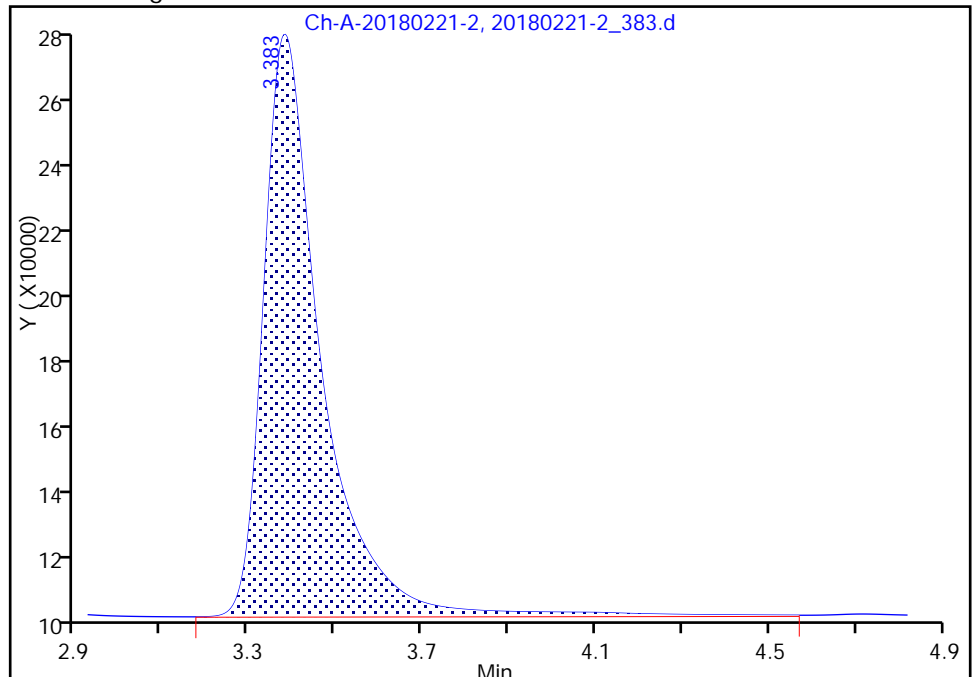
RT: 3.38
Area: 1593931
Amount: 42.137836
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1583899
Amount: 41.872626
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

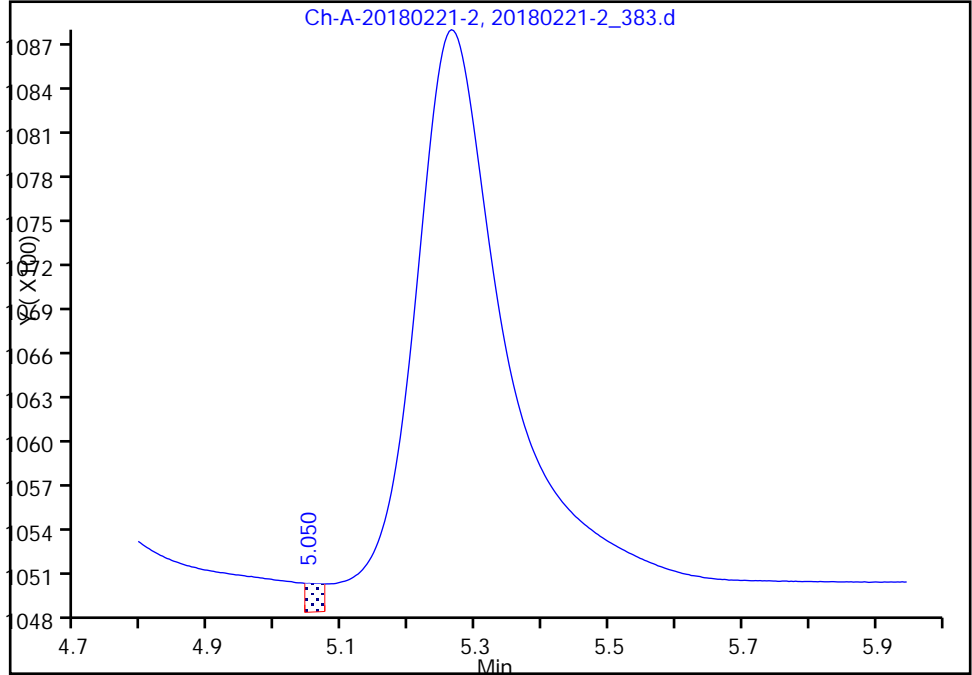
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_383.d
Injection Date: 28-Feb-2018 00:57:49 Instrument ID: IC-2
Lims ID: 480-131737-E-3 Lab Sample ID: 480-131737-3
Client ID: ML-2D
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 47
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

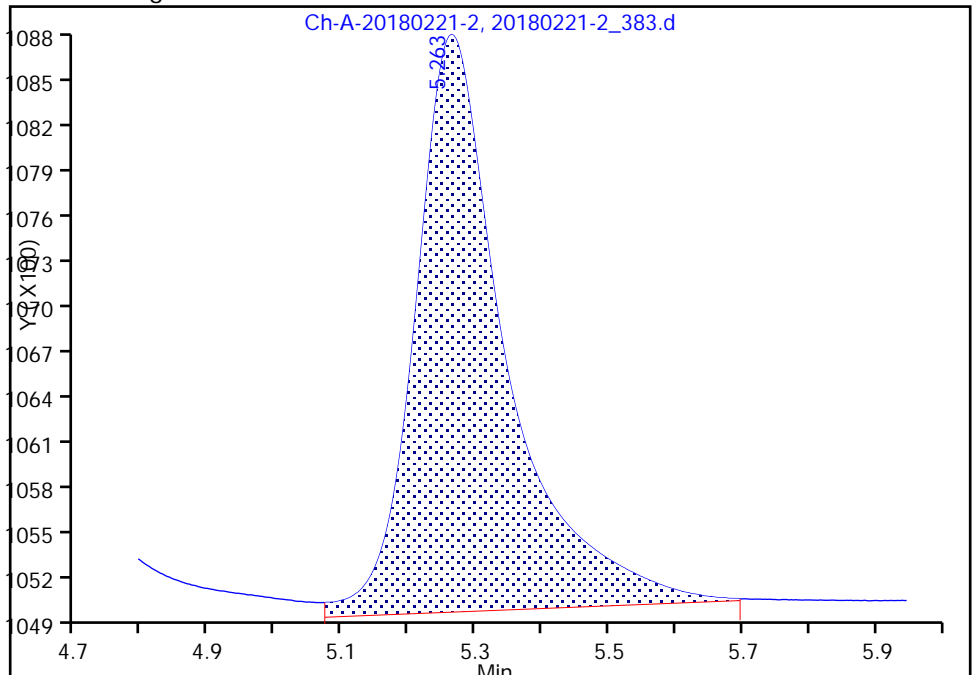
RT: 5.05
Area: 339
Amount: -0.795946
Amount Units: ng/uL

Processing Integration Results



RT: 5.26
Area: 36174
Amount: 0.364722
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:04
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_384.d
 Lims ID: 480-131737-E-3 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 28-Feb-2018 01:05:57 ALS Bottle#: 0 Worklist Smp#: 48
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 384 Name: 480-131737-E-3 MS
 Misc. Info.: Study: 480-0069537-048 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 14:02:26 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 14:02:26

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.633	2.637	-0.004	323449	5.00	5.11	M
2 Chloride						M
3.377	3.380	-0.003	3382702	50.0	89.4	M
3 Bromide						M
4.687	4.697	-0.010	65258	5.00	5.56	M
4 Nitrate as N						M
4.887	4.890	-0.003	362308	NC	NC	M
5 Sulfate						M
5.137	5.140	-0.003	1581364	50.0	50.4	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00032

Amount Added: 250.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_384.d

Injection Date: 28-Feb-2018 01:05:57

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-3 MS

Worklist Smp#: 48

Client ID:

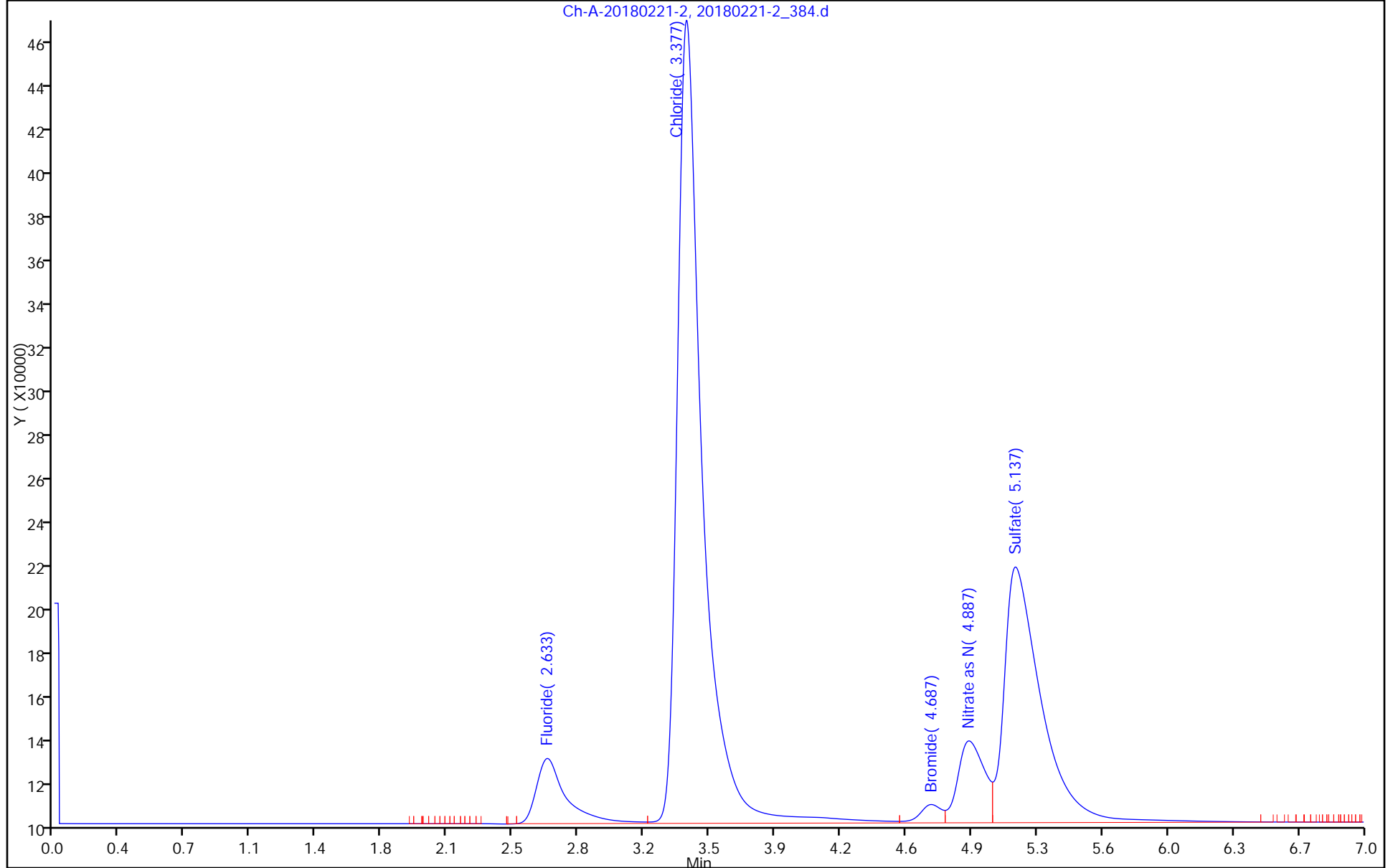
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

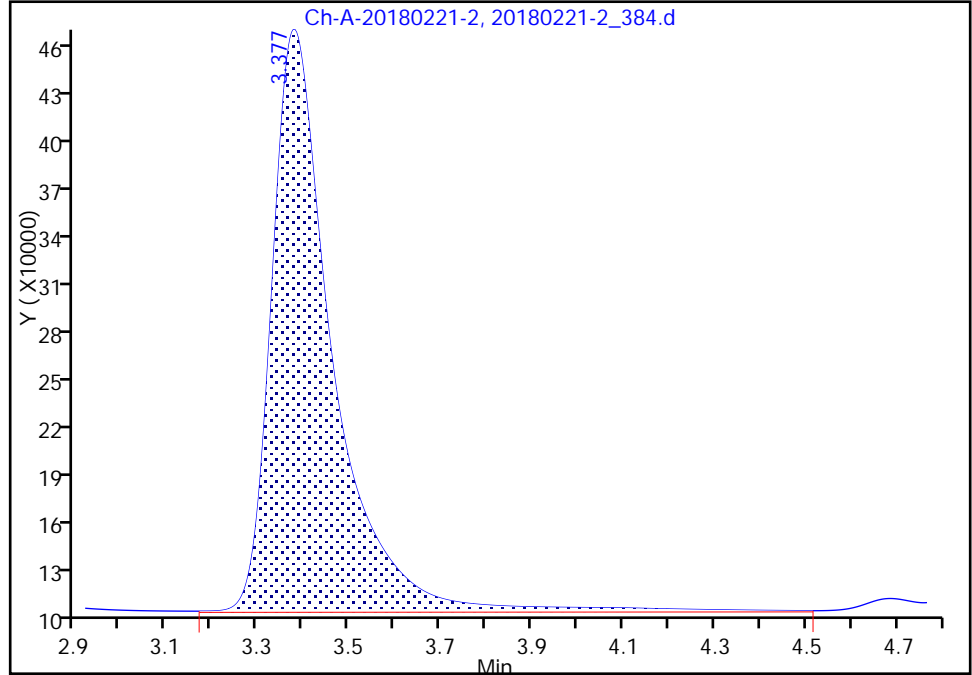
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_384.d
Injection Date: 28-Feb-2018 01:05:57 Instrument ID: IC-2
Lims ID: 480-131737-E-3 MS
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

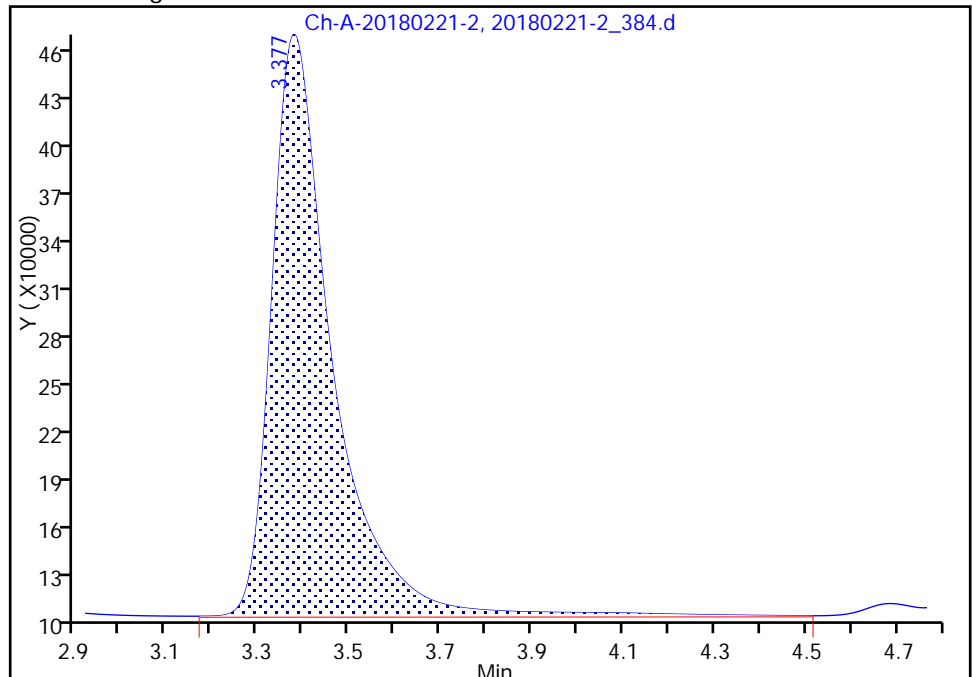
RT: 3.38
Area: 3388358
Amount: 89.576069
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 3382702
Amount: 89.426545
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:21
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

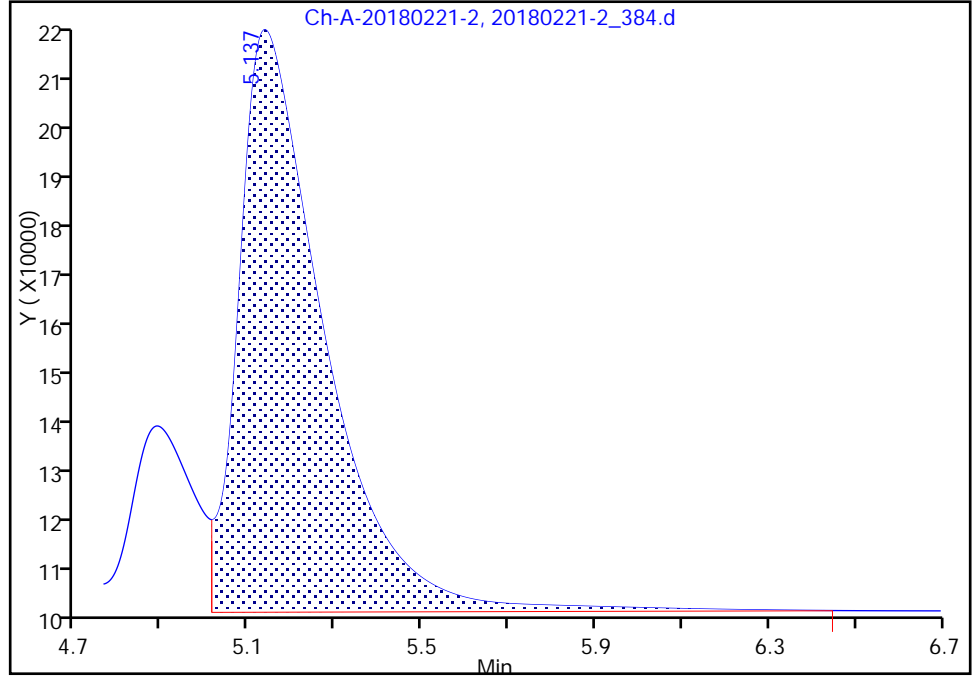
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_384.d
Injection Date: 28-Feb-2018 01:05:57 Instrument ID: IC-2
Lims ID: 480-131737-E-3 MS
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 48
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

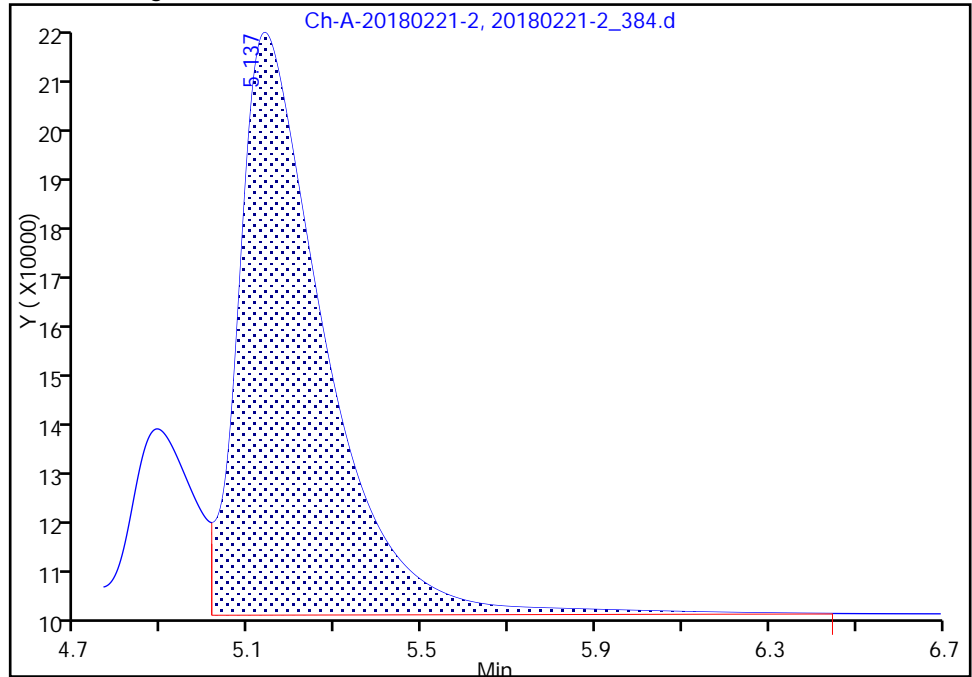
RT: 5.14
Area: 1579644
Amount: 50.356519
Amount Units: ng/uL

Processing Integration Results



RT: 5.14
Area: 1581364
Amount: 50.412229
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:21
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_385.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Feb-2018 01:14:06 ALS Bottle#: 0 Worklist Smp#: 49
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 385 Name: CCV
 Misc. Info.: Study: 480-0069537-049 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 14:02:49 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 14:02:49

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.640	2.640	0.000	293509	5.00	4.63	M
2 Chloride						M
3.383	3.383	0.000	1902809	50.0	50.3	M
3 Bromide						M
4.697	4.697	0.000	58145	5.00	4.95	M
4 Nitrate as N						M
4.893	4.893	0.000	368690	NC	NC	M
5 Sulfate						M
5.140	5.140	0.000	1587914	50.0	50.6	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191 Amount Added: 5.00 Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_385.d

Injection Date: 28-Feb-2018 01:14:06

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 49

Client ID:

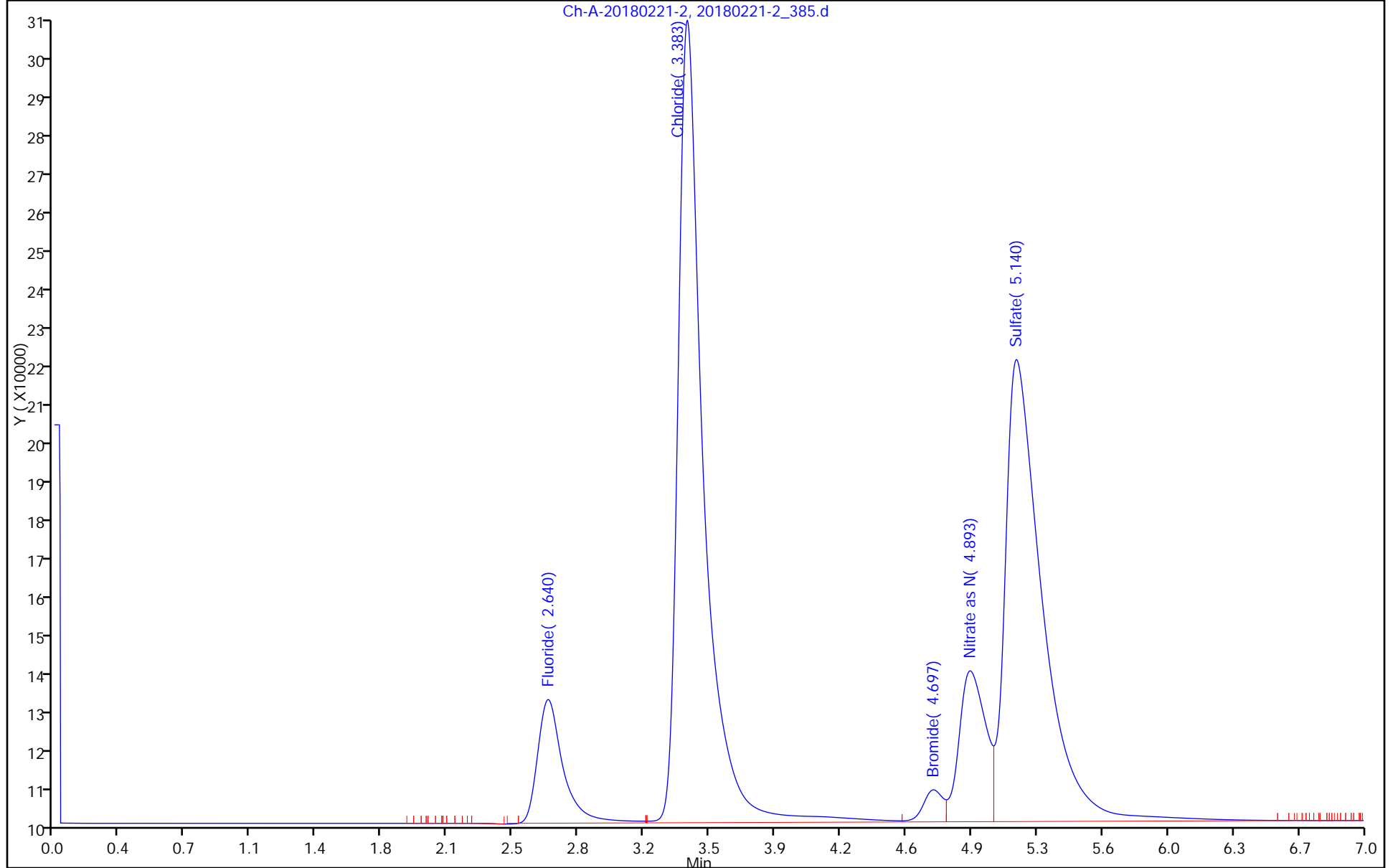
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

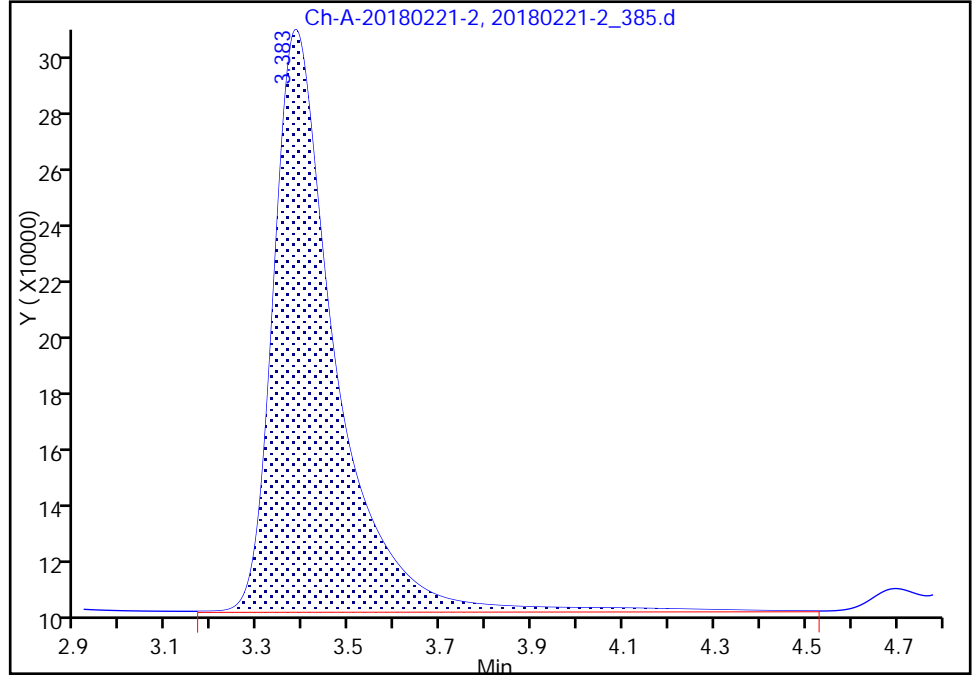
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_385.d
Injection Date: 28-Feb-2018 01:14:06 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

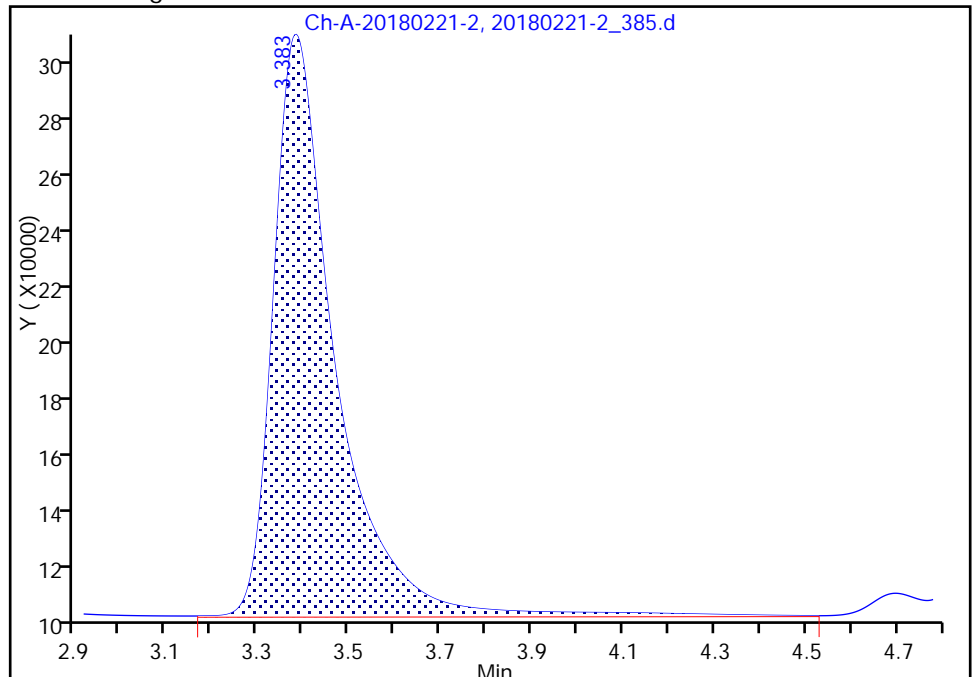
RT: 3.38
Area: 1898842
Amount: 50.198593
Amount Units: ng/uL

Processing Integration Results



RT: 3.38
Area: 1902809
Amount: 50.303466
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:42
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

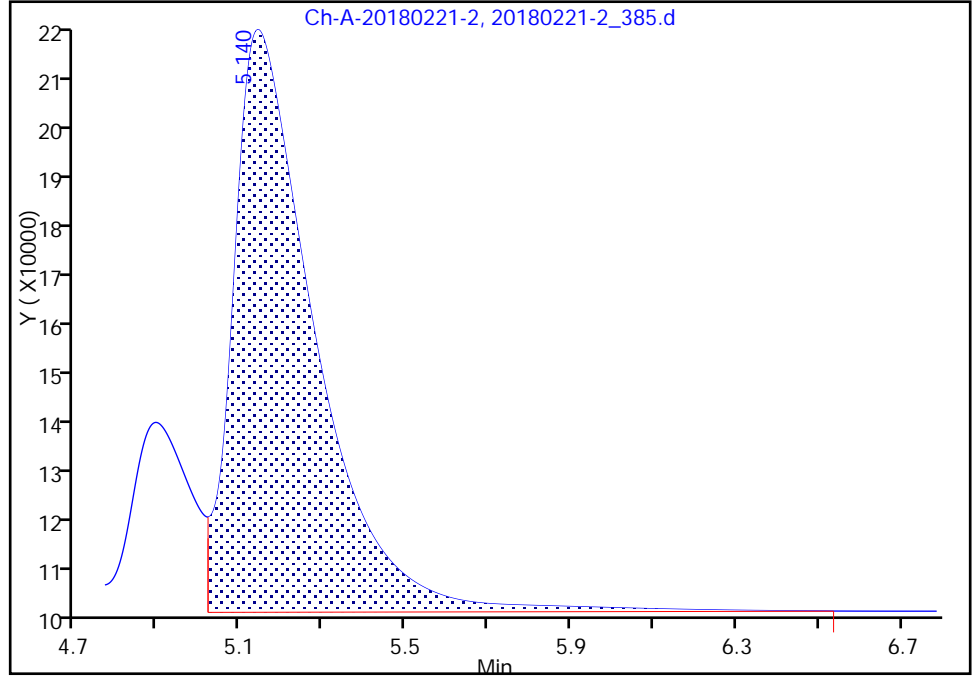
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_385.d
Injection Date: 28-Feb-2018 01:14:06 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

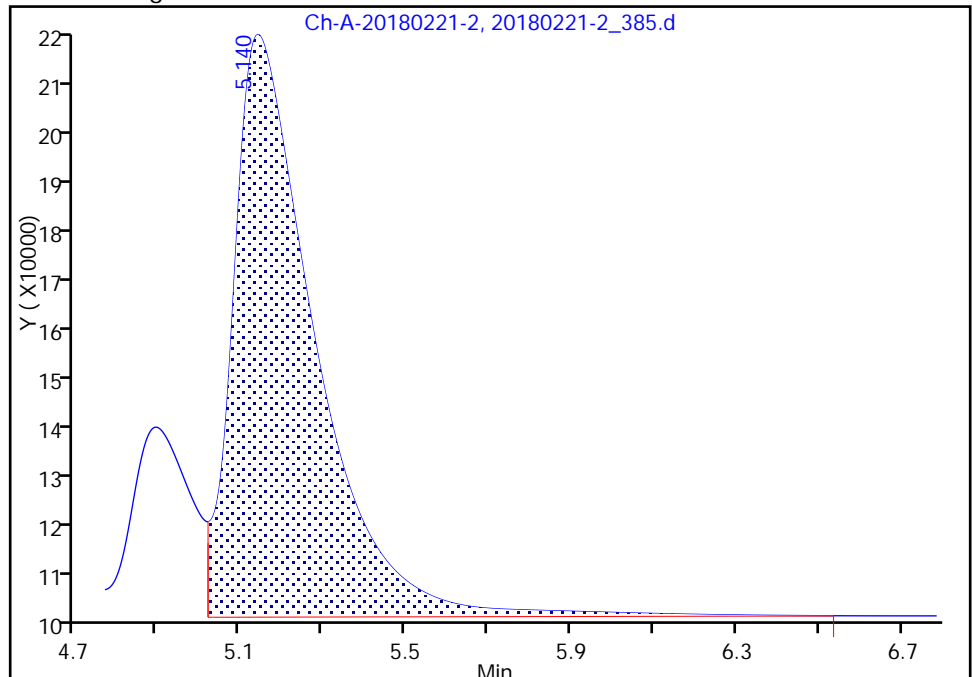
RT: 5.14
Area: 1585593
Amount: 50.549203
Amount Units: ng/uL

Processing Integration Results



RT: 5.14
Area: 1587914
Amount: 50.624378
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:42
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_386.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 28-Feb-2018 01:22:14 ALS Bottle#: 0 Worklist Smp#: 50
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 386 Name: CCB
 Misc. Info.: Study: 480-0069537-050 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 14:02:58 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK012

First Level Reviewer: schickr Date: 28-Feb-2018 14:02:58

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 Nitrate as N						
4.883	4.893	-0.010	12		NC	
5 Sulfate						
5.320	5.140	0.180	13176	-0.3802	a	a

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_386.d

Injection Date: 28-Feb-2018 01:22:14

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 50

Client ID:

Injection Vol: 1.0 ul

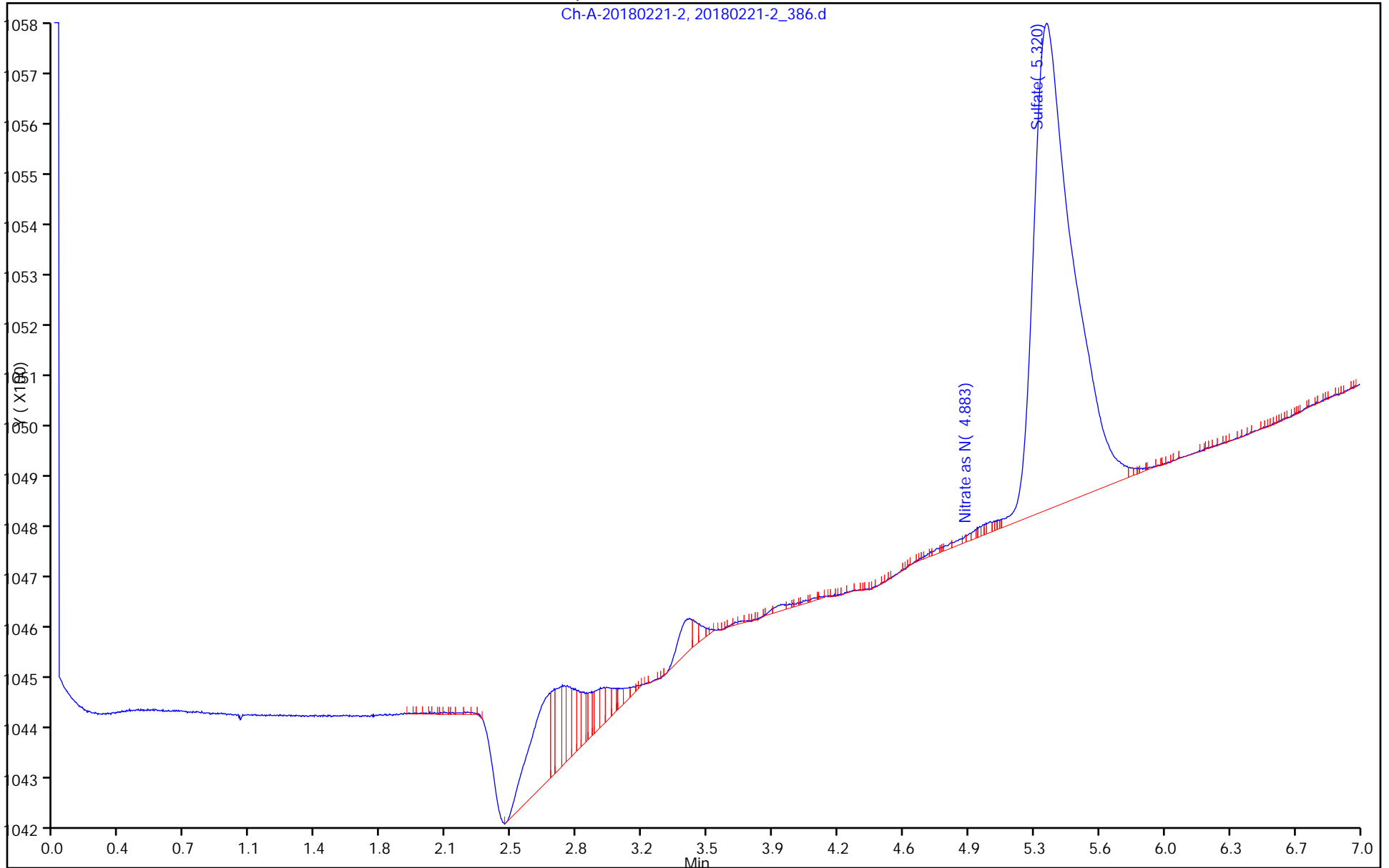
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180221-2, 20180221-2_386.d

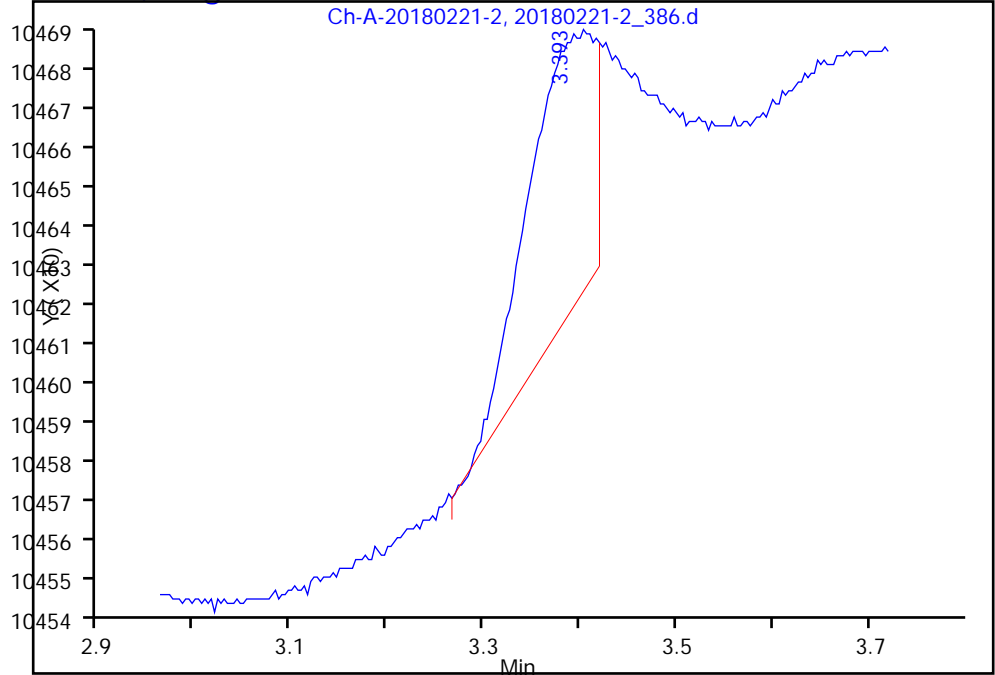


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_386.d
Injection Date: 28-Feb-2018 01:22:14 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 3.39
Response: 310
Amount: 0.008195



Reviewer: schickr, 28-Feb-2018 14:02:58
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

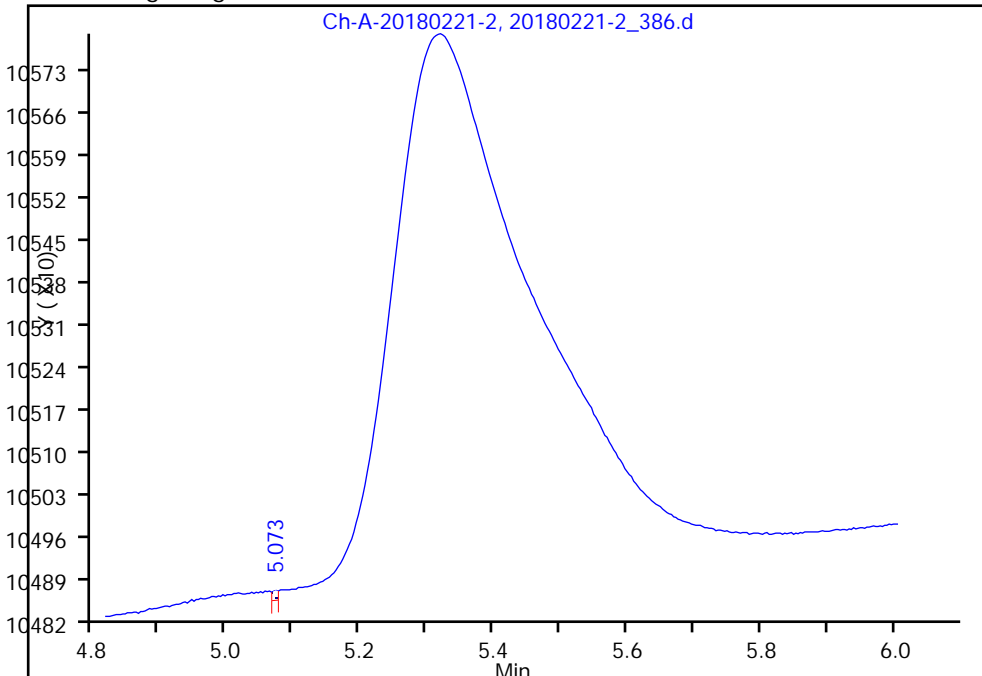
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69537.b\20180221-2_386.d
Injection Date: 28-Feb-2018 01:22:14 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

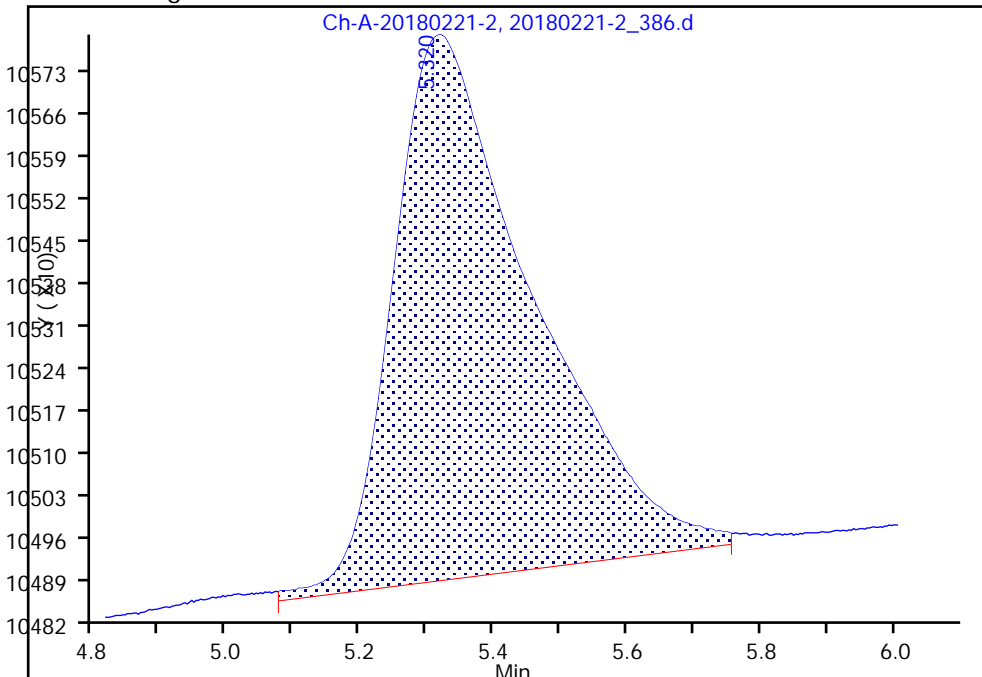
RT: 5.07
Area: 9
Amount: -0.806634
Amount Units: ng/uL

Processing Integration Results



RT: 5.32
Area: 13176
Amount: -0.380165
Amount Units: ng/uL

Manual Integration Results



Reviewer: schickr, 28-Feb-2018 14:02:57

Audit Action: Assigned Compound ID

Audit Reason:

Ion Chromatography Data Review Checklist

LIMS Batch Number: 401747	Worklist: 69540	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: BS	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water Non-potable Water <u>Solid</u> Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area: Height Difference (314.0 $PD_{A/H}$): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓			<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓			
b. All crossed out data is Initialed and dated	✓			
c. Out of control QC is clearly identified	✓			
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓			
16. Run Log				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Analyst initials/signature provided	✓			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	✓			
b. Method and matrix are correct	✓			
c. Date and time match raw data	✓			
d. Dilutions are correct	✓			
e. Correct suffix designated (where applicable)	✓			
18. TALS Worksheet Tab is complete and correct	✓			
19. TALS Reagent Tab is complete and correct	✓			
20. TALS QC Links Tab is correct	✓			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	✓			
b. All reported analytes are marked Primary or Secondary	✓			
22. TALS Batch Information Screen documentation is complete	✓			
23. TALS Status set to appropriate review level	✓			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

Ion Chromatography Data Review Checklist

LIMS Batch Number: 401748	Worklist: 69540	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: BS	Method (circle): 300.0, 314.0, 9056, 7199, SM4110, VFA	QC Type (circle): <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water Non-potable <u>Water</u> Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Out of control QC is clearly identified	✓			
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓			
16. Run Log				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Analyst initials/signature provided	✓			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	✓			
b. Method and matrix are correct	✓			
c. Date and time match raw data	✓			
d. Dilutions are correct	✓			
e. Correct suffix designated (where applicable)	✓			
18. TALS Worksheet Tab is complete and correct	✓			
19. TALS Reagent Tab is complete and correct	✓			
20. TALS QC Links Tab is correct	✓			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	✓			
b. All reported analytes are marked Primary or Secondary	✓			
22. TALS Batch Information Screen documentation is complete	✓			
23. TALS Status set to appropriate review level	✓			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [Buffalo]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 461749	Worklist: 69540	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: BS	Method (circle): 300.0, 314.0, <u>9056</u> , 7199, SM4110, VFA	QC Type (circle): <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water <u>Non-potable Water</u> Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓			
2. Elution order of analytes in ICAL confirmed to be correct		✓			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		✓			
4. ICV, second source: run before samples 90-110% recovery		✓			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		✓			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{AH}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		✓			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chruns, date, initial, & reason)		✓			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		✓			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Out of control QC is clearly identified	✓			
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓			
16. Run Log				
a. Unused data is clearly identified	✓			
b. All crossed out data is initialed and dated	✓			
c. Analyst initials/signature provided	✓			
17. TALS Samples Tab	✓			
a. LIMS Sample IDs / Containers are correct	✓			
b. Method and matrix are correct	✓			
c. Date and time match raw data	✓			
d. Dilutions are correct	✓			
e. Correct suffix designated (where applicable)	✓			
18. TALS Worksheet Tab is complete and correct	✓			
19. TALS Reagent Tab is complete and correct	✓			
20. TALS QC Links Tab is correct	✓			
21. TALS Sample Results Tab	✓			
a. All unused data are marked Rejected or Accepted	✓			
b. All reported analytes are marked Primary or Secondary	✓			
22. TALS Batch Information Screen documentation is complete	✓			
23. TALS Status set to appropriate review level	✓			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180228
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b
Upload Directory: \\CorptAL\SAPP17\480-BF-RawData\Organics\MS\IC-2



Worklist Number: 69540
Chrom Method: IC2-300
Units: ul

*cond std - 15 1413 5025c (1278-5020c)
daily cal 1307 y 50 21.1c
CA*

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-001	# 1 Blank		Client	SV	5.000	mL	1.000
480-0069540-002	# 2 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069540-003	# 3 CCB		CCB	SV	5.000	mL	1.000
480-0069540-004	# 4 LCS	IC_ANION_LCS_00191	LCS	SV	5.000	mL	1.000
480-0069540-005	# 5 MB		MB	SV	5.000	mL	1.000
480-0069540-006	# 6 480-131737-E-4		Client	SV	5.000	mL	0.0
480-0069540-007	# 7 480-131737-E-5		Client	SV	5.000	mL	0.0
480-0069540-008	# 8 480-131737-E-6		Client	SV	5.000	mL	0.0
480-0069540-009	# 9 480-131737-E-8		Client	SV	5.000	mL	0.0
480-0069540-010	# 10 480-131746-D-1		Client	SV	5.000	mL	0.0
480-0069540-011	# 11 480-131782-E-1		Client	SV	5.000	mL	0.0
480-0069540-012	# 12 480-131782-E-1 MS		MS	SV	5.000	mL	0.0
480-0069540-013	# 13 480-131782-E-1 MSD		MSD	SV	5.000	mL	0.0
480-0069540-014	# 14 CCV		CCV	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-015 480-0069540-016 480-0069540-017	#15 CCB #16 480-131782-E-2 #17 480-131782-E-3		CCB	SV	5.000	mL	1.000
480-0069540-018 480-0069540-019	#18 480-131782-E-4 #19 480-131782-E-5		Client	SV	5.000	mL	0.0
480-0069540-020 480-0069540-021	#20 480-131782-E-6 #21 480-131782-E-7		Client	SV	5.000	mL	0.0
480-0069540-022 480-0069540-023	#22 480-131782-E-8 #23 480-131782-E-9		Client	SV	5.000	mL	0.0
480-0069540-024 480-0069540-025	#24 480-131811-C-1 #25 480-131811-C-1 MS		Client	SV	5.000	mL	0.0
480-0069540-026 480-0069540-027	#26 CCB #27 CCB	IC_ANION_STD_00032 IC_ANION_LCS_00191	MS CCV	SV	5.000	mL	0.0 1.000
480-0069540-028 480-0069540-029	#28 LCS #29 MB	IC_ANION_LCS_00191	LCS MB	SV	5.000	mL	1.000 1.000
480-0069540-030 480-0069540-031	#30 480-131811-C-2 #31 480-131811-C-3		Client	SV	5.000	mL	0.0
480-0069540-032	#32 480-131811-C-4		Client	SV	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-033	#33 480-131811-C-5	1778-518C X5	Client	SV	5.000	mL	0.0
480-0069540-034	#34 480-131811-C-6	2.40m 5018C X10	Client	SV	5.000	mL	0.0
480-0069540-035	#35 480-131811-C-7	1941m 5018C X5	Client	SV	5.000	mL	0.0
480-0069540-036	#36 480-131811-C-7 MS	IC_ANION_STD_00032 X5	MS	SV	5.000	mL	0.0
480-0069540-037	#37 480-131811-C-7 MSD	IC_ANION_STD_00032 X5	MSD	SV	5.000	mL	0.0
480-0069540-038	#38 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000
480-0069540-039	#39 CCB		CCB	SV	5.000	mL	1.000
480-0069540-040	#40 480-131811-C-8	1186m 5018C X5	Client	SV	5.000	mL	0.0
480-0069540-041	#41 480-131811-C-9	1037m 5018C X5	Client	SV	5.000	mL	0.0
480-0069540-042	#42 480-131811-C-10	2.40m 5018C X10	Client	SV	5.000	mL	0.0
480-0069540-043	#43 480-131811-C-11	2.12m 5018C X5	Client	SV	5.000	mL	0.0
480-0069540-044	#44 480-131811-C-12	2.17m 5018C X5	Client	SV	5.000	mL	0.0
480-0069540-045	#45 480-131811-C-13		Client	SV	5.000	mL	5.000
480-0069540-046	#46 480-131811-C-14		Client	SV	5.000	mL	10.000
480-0069540-047	#47 480-131811-C-15	517m 5018C X2	Client	SV	5.000	mL	0.0
480-0069540-048	#48 480-131811-C-16	1105m 5018C X5	Client	SV	5.000	mL	0.0
480-0069540-049	#49 480-131811-C-16 MS	IC_ANION_STD_00032 X5	MS	SV	5.000	mL	0.0
480-0069540-050	#50 CCV	IC_ANION_LCS_00191	CCV	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-051 	#51 CCB 		CCB	SV	5.000	mL	1.000

Anion Method (6-23-17)

TestAmerica [Buffalo]

Ion Chromatography Data Review Checklist

LIMS Batch Number: <u>461749</u>	Worklist: <u>69540</u>	Instrument ID (circle one): IC1 <u>IC2</u> IC3
Analyst/1 st Reviewer: <u>BS</u>	Method (circle): 300.0, 314.0, <u>9056</u> , 7199, SM4110, VFA	QC Type (circle): <u>Standard</u> DAPP Other
Matrix (circle): Drinking Water Non-potable <u>Water</u> Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		✓		✓	
2. Elution order of analytes in ICAL confirmed to be correct		✓		✓	
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		✓		✓	
4. ICV, second source: run before samples 90-110% recovery		✓		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		✓		✓	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		✓		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X			✓	If no, list details:
8. Pk Area:Height Difference (314.0 PD _{AM}): Before samples $< 25\%$	X			✓	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		✓		✓	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chruns, date, initial, & reason)		✓		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		✓		✓	<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		✓		✓	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Naphat C. 03/02/18

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		✓		✓	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		✓		✓	

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Out of control QC is clearly identified	✓		✓	
d. Any data that has a qualifier tick is commented on with appropriate action taken	✓		✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	✓		✓	
16. Run Log				
a. Unused data is clearly identified	✓		✓	
b. All crossed out data is initialed and dated	✓		✓	
c. Analyst initials/signature provided	✓		✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	✓		✓	
b. Method and matrix are correct	✓		✓	
c. Date and time match raw data	✓		✓	
d. Dilutions are correct	✓		✓	
e. Correct suffix designated (where applicable)	✓		✓	
18. TALS Worksheet Tab is complete and correct	✓		✓	
19. TALS Reagent Tab is complete and correct	✓		✓	
20. TALS QC Links Tab is correct	✓		✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	✓		✓	
b. All reported analytes are marked Primary or Secondary	✓		✓	
22. TALS Batch Information Screen documentation is complete	✓		✓	
23. TALS Status set to appropriate review level	✓		✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: Naphat C. Review Date: 03/02/18

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180228
Instrument Name: IC-2
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b
Upload Directory: \\CorpTALSAPP1\7480-BF-RawData\Organics\MS\IC-2

Worklist Number: 69540
Chrom Method: IC2-300
Units: ul



card std - 15 1413ms025c (1278ms020c)
daily cal 1307 ms 21.1C
CA

0.401749

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-001	# 1 Blank		Client	sv	5.000	mL	1.000
480-0069540-002	# 2 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069540-003	# 3 CCB		CCB	sv	5.000	mL	1.000
480-0069540-004	# 4 LCS	IC_ANION_LCS_00191	LCS	sv	5.000	mL	1.000
480-0069540-005	# 5 MB		MB	sv	5.000	mL	1.000
480-0069540-006	# 6 480-131737-E-4	2.00ms019C	Client	sv	5.000	mL	0.0
480-0069540-007	# 7 480-131737-E-5	2.71ms019C	Client	sv	5.000	mL	0.0
480-0069540-008	# 8 480-131737-E-6	3.36ms019C	Client	sv	5.000	mL	0.0
480-0069540-009	# 9 480-131737-E-8	3.88ms019C	Client	sv	5.000	mL	0.0
480-0069540-010	# 10 480-131746-D-1	16.61ms018C	Client	sv	5.000	mL	0.0
480-0069540-011	# 11 480-131782-E-1	7.96ms017C	Client	sv	5.000	mL	0.0
480-0069540-012	# 12 480-131782-E-1 MS	IC_ANION_STD_00032	MS	sv	5.000	mL	0.0
480-0069540-013	# 13 480-131782-E-1 MSD	IC_ANION_STD_00032	MSD	sv	5.000	mL	0.0
480-0069540-014	# 14 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-015	#15 CCB		CCB	sv	5.000	mL	1.000
480-0069540-016	#16 480-131782-E-2		Client	sv	5.000	mL	1.000
480-0069540-017	#17 480-131782-E-3	X2	Client	sv	5.000	mL	0.0
480-0069540-018	#18 480-131782-E-4	X1	Client	sv	5.000	mL	0.0
480-0069540-019	#19 480-131782-E-5	X2	Client	sv	5.000	mL	0.0
480-0069540-020	#20 480-131782-E-6	X2	Client	sv	5.000	mL	0.0
480-0069540-021	#21 480-131782-E-7	X5	Client	sv	5.000	mL	0.0
480-0069540-022	#22 480-131782-E-8	X2	Client	sv	5.000	mL	0.0
480-0069540-023	#23 480-131782-E-9	X5	Client	sv	5.000	mL	0.0
480-0069540-024	#24 480-131811-C-1		Client	sv	5.000	mL	0.0
480-0069540-025	#25 480-131811-C-1 MS	IC_ANION_STD_00032	MS	sv	5.000	mL	0.0
480-0069540-026	#26 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069540-027	#27 CCB		CCB	sv	5.000	mL	1.000
480-0069540-028	#28 LCS	IC_ANION_LCS_00191	LCS	sv	5.000	mL	1.000
480-0069540-029	#29 MB		MB	sv	5.000	mL	1.000
480-0069540-030	#30 480-131811-C-2		Client	sv	5.000	mL	0.0
480-0069540-031	#31 480-131811-C-3	X2	Client	sv	5.000	mL	0.0
480-0069540-032	#32 480-131811-C-4		Client	sv	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0069540-033	#33 480-131811-C-5	1778-518C X5	Client	sv	5.000	mL	0.0
480-0069540-034	#34 480-131811-C-6	2.40m 5018C X10	Client	sv	5.000	mL	0.0
480-0069540-035	#35 480-131811-C-7	1941-5018C X5	Client	sv	5.000	mL	0.0
480-0069540-036	#36 480-131811-C-7 MS	IC_ANION_STD_00032 X5	MS	sv	5.000	mL	0.0
480-0069540-037	#37 480-131811-C-7 MSD	IC_ANION_STD_00032 X5	MSD	sv	5.000	mL	0.0
480-0069540-038	#38 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000
480-0069540-039	#39 CCB		CCB	sv	5.000	mL	1.000
480-0069540-040	#40 480-131811-C-8	1186-5018C X5	Client	sv	5.000	mL	0.0
480-0069540-041	#41 480-131811-C-9	1022-5018C X5	Client	sv	5.000	mL	0.0
480-0069540-042	#42 480-131811-C-10	2.40m 5018C X10	Client	sv	5.000	mL	0.0
480-0069540-043	#43 480-131811-C-11	2.12m 5018C X5	Client	sv	5.000	mL	0.0
480-0069540-044	#44 480-131811-C-12	2.17m 5018C X5	Client	sv	5.000	mL	0.0
480-0069540-045	#45 480-131811-C-13		Client	sv	5.000	mL	5.000
480-0069540-046	#46 480-131811-C-14		Client	sv	5.000	mL	10.00
480-0069540-047	#47 480-131811-C-15	517-5018C X2	Client	sv	5.000	mL	0.0
480-0069540-048	#48 480-131811-C-16	1105-5018C X5	Client	sv	5.000	mL	0.0
480-0069540-049	#49 480-131811-C-16 MS	IC_ANION_STD_00032 X5	MS	sv	5.000	mL	0.0
480-0069540-050	#50 CCV	IC_ANION_LCS_00191	CCV	sv	5.000	mL	1.000

Worklist ID 480-0069540-051 	Lims ID #51 CCB 	Sample Reagents	Smp Type CCB	Fract sv	Initial Vol/Wt 5.000	Vol/Wt Units mL	Dil Fact 1.000
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Anion Method (6-23-17)

Naphat C. 03/02/18

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_002.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Feb-2018 10:55:48 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 002 Name: CCV
 Misc. Info.: Study: 480-0069540-002 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:53:00 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:53:00

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.617	2.617	0.000	288187	5.00	4.55	M
2 Chloride						M
3.350	3.350	0.000	1856726	50.0	49.1	M
3 Bromide						M
4.657	4.657	0.000	53590	5.00	4.56	M
4 Nitrate as N						M
4.847	4.847	0.000	337548	NC	NC	M
5 Sulfate						M
5.097	5.097	0.000	1601143	50.0	51.1	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_002.d

Injection Date: 28-Feb-2018 10:55:48

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 2

Client ID:

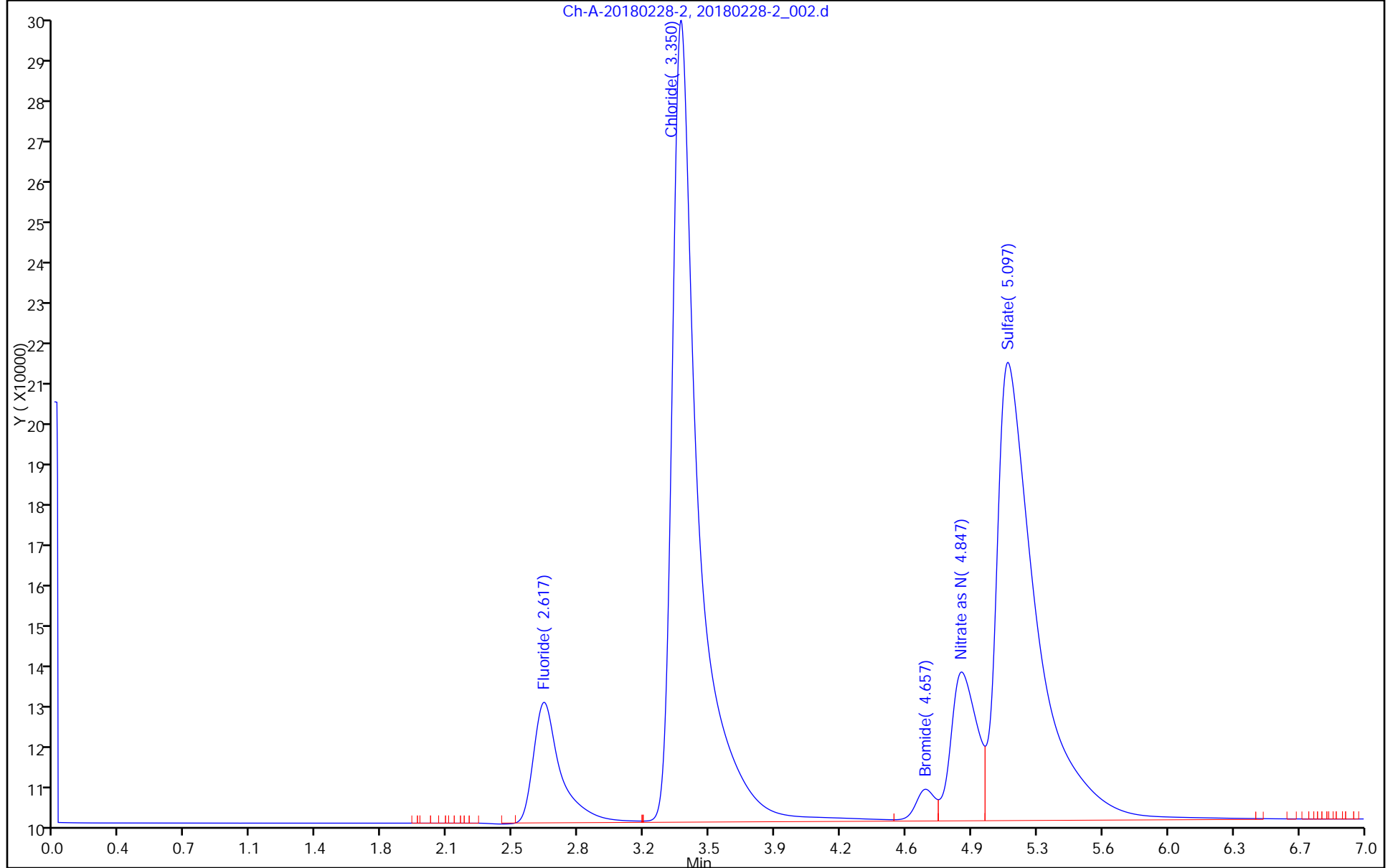
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

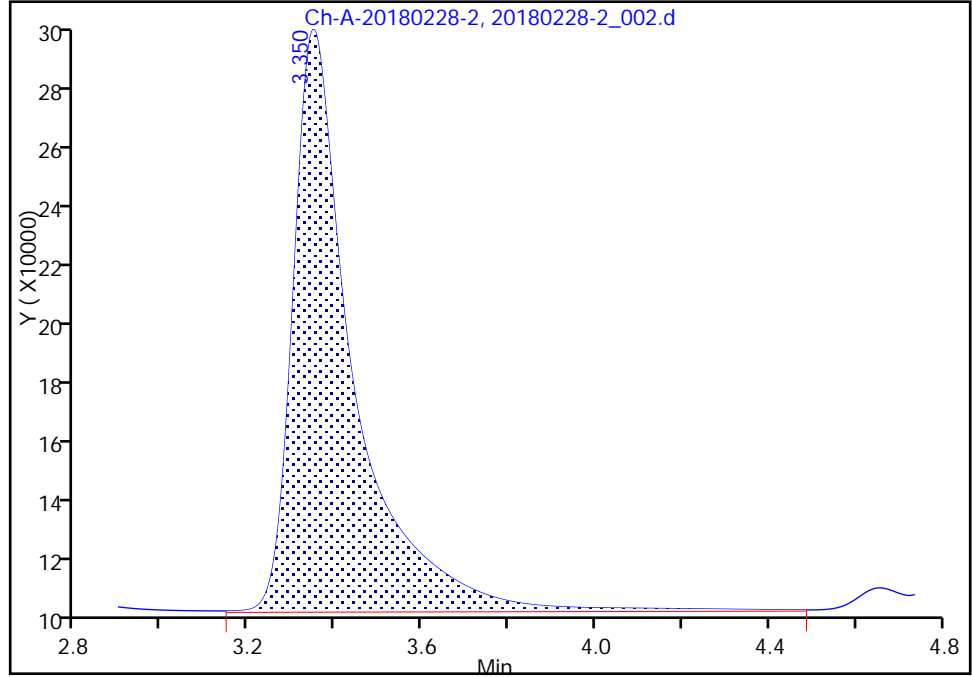
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_002.d
Injection Date: 28-Feb-2018 10:55:48 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

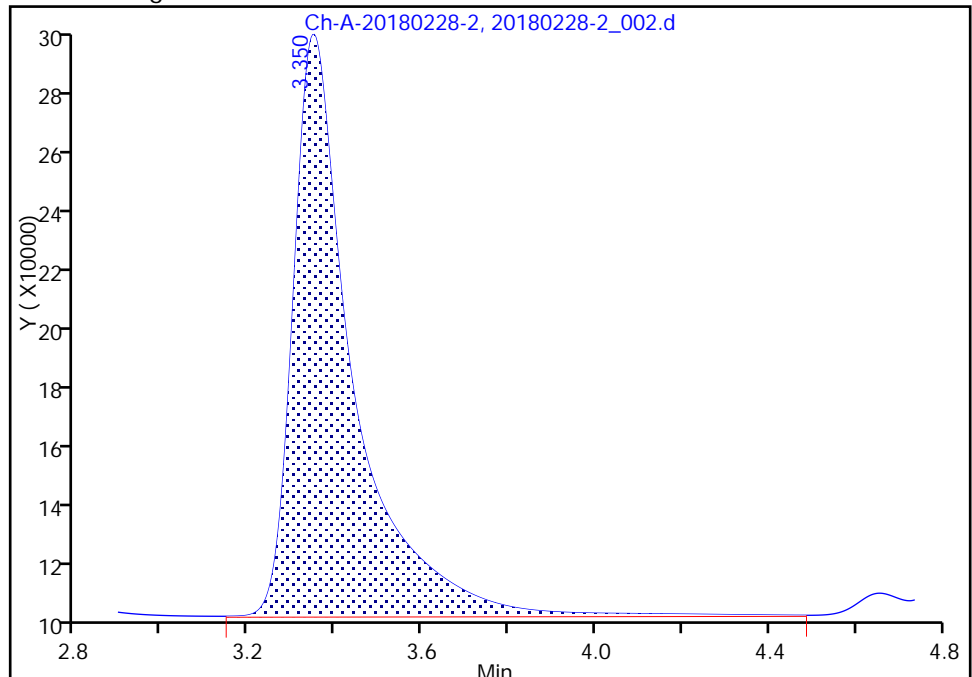
RT: 3.35
Area: 1864324
Amount: 49.286060
Amount Units: ng/uL

Processing Integration Results



RT: 3.35
Area: 1856726
Amount: 49.085196
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:52:08
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

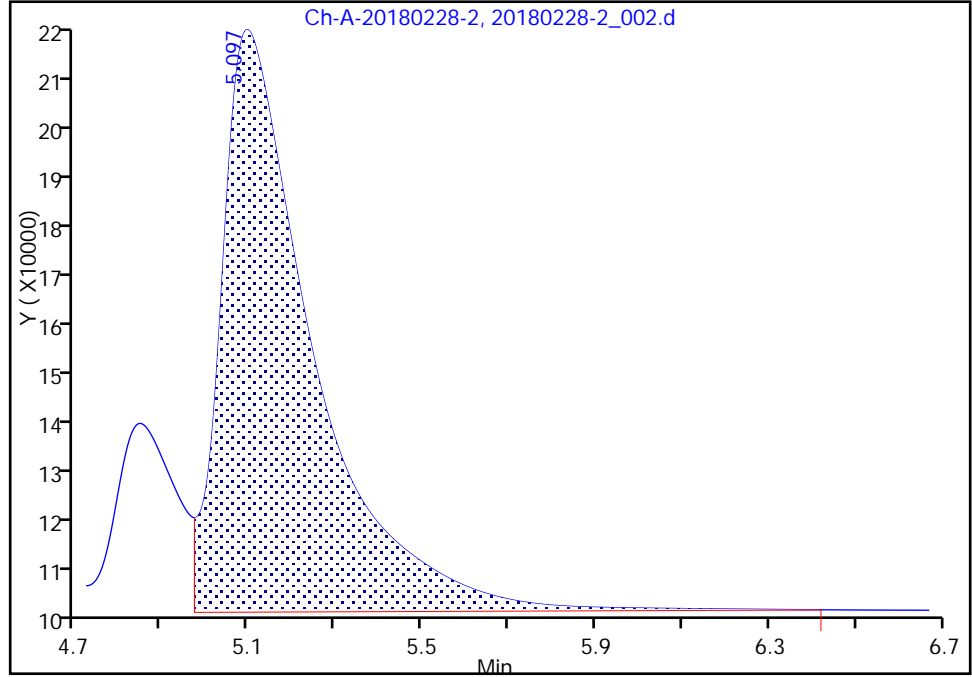
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_002.d
Injection Date: 28-Feb-2018 10:55:48 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

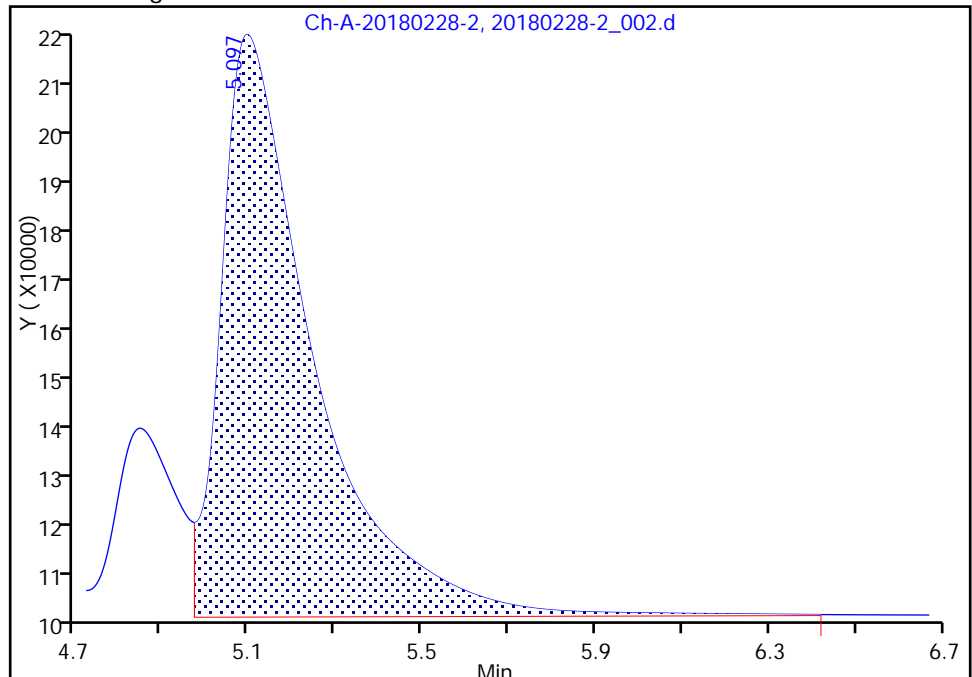
RT: 5.10
Area: 1593895
Amount: 50.818098
Amount Units: ng/uL

Processing Integration Results



RT: 5.10
Area: 1601143
Amount: 51.052855
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:52:08
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_003.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 28-Feb-2018 11:03:56 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 003 Name: CCB
 Misc. Info.: Study: 480-0069540-003 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:53:38 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:53:38

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						M
3.370	3.350	0.020	548		0.0145	M
5 Sulfate						a
5.287	5.097	0.190	15618		-0.3011	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_003.d

Injection Date: 28-Feb-2018 11:03:56

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

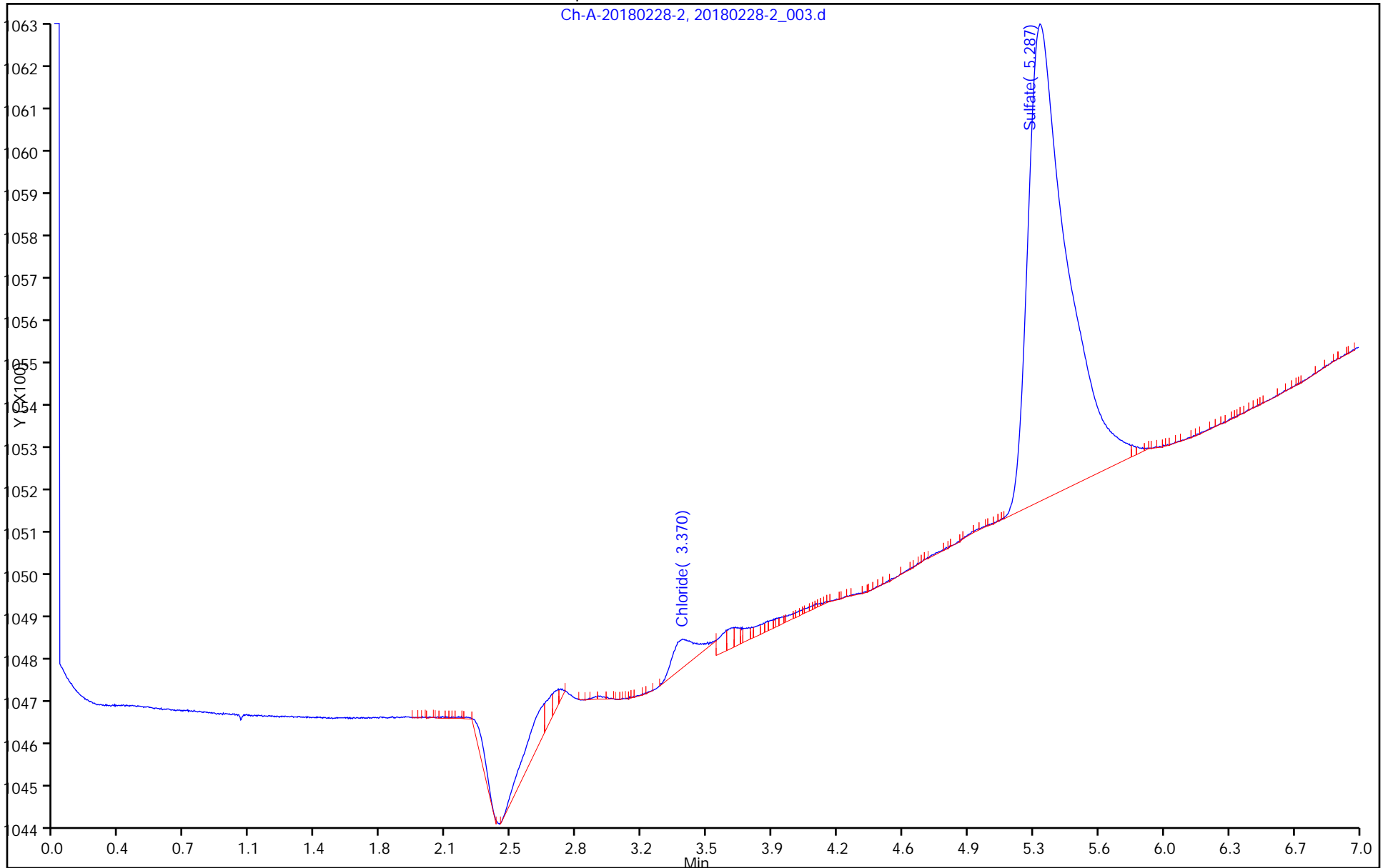
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180228-2, 20180228-2_003.d



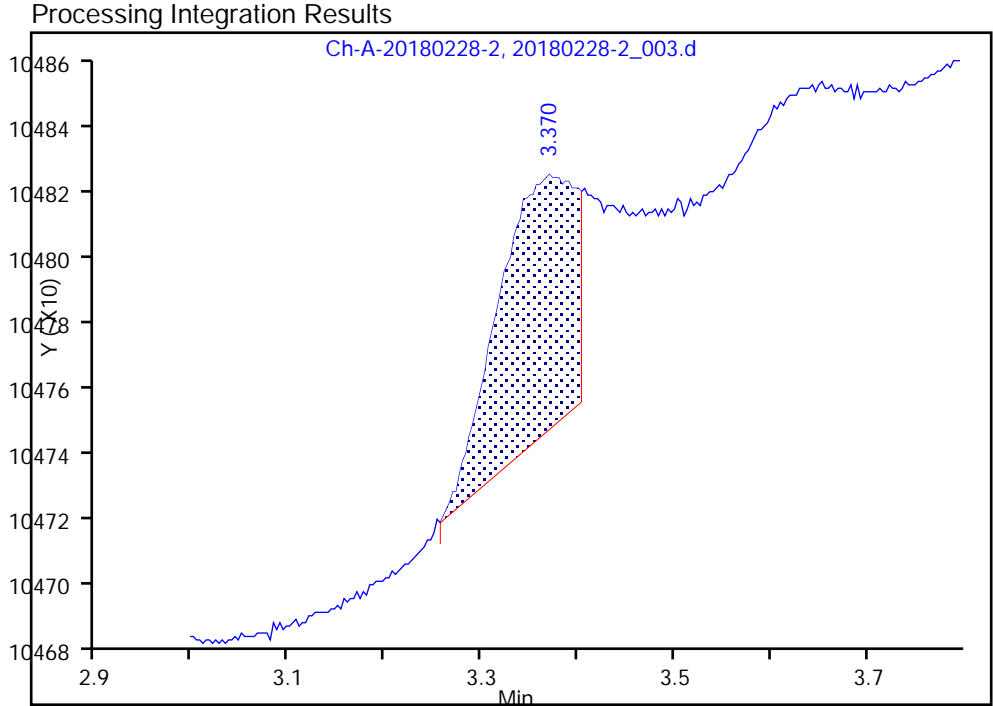
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_003.d
Injection Date: 28-Feb-2018 11:03:56 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

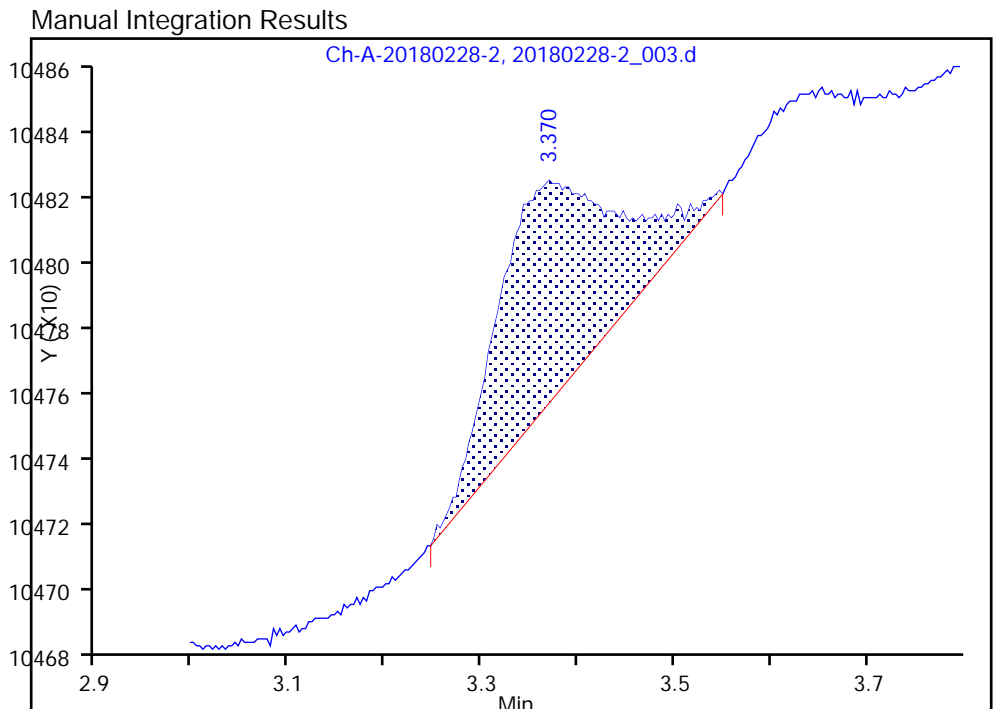
2 Chloride, CAS: 16887-00-6

Signal: 1

RT: 3.37
Area: 420
Amount: 0.011103
Amount Units: ng/uL



RT: 3.37
Area: 548
Amount: 0.014487
Amount Units: ng/uL



Reviewer: abramoc, 28-Feb-2018 16:53:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

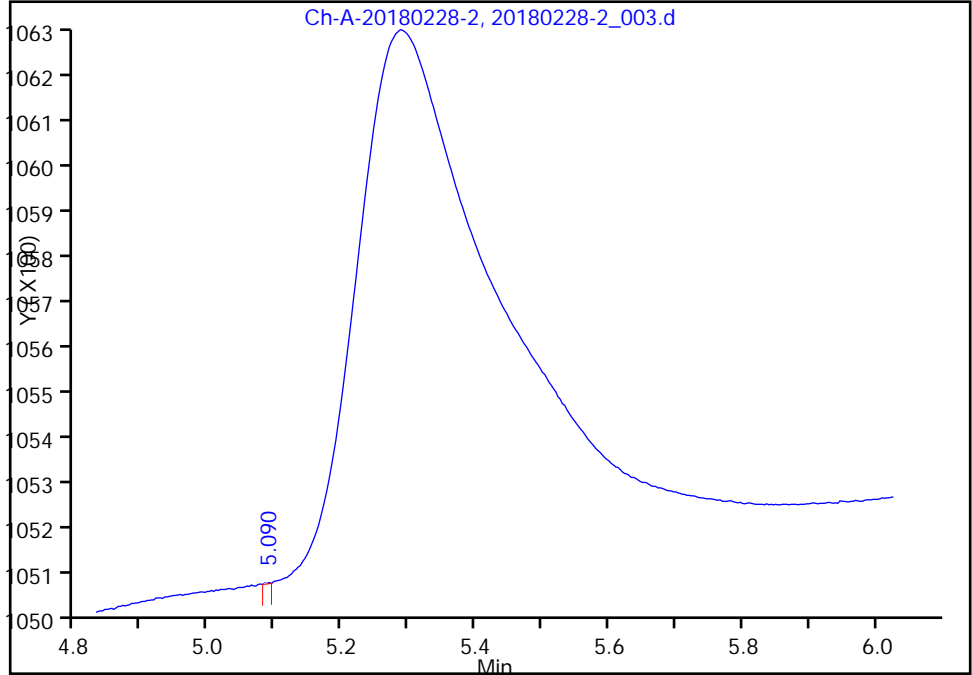
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_003.d
Injection Date: 28-Feb-2018 11:03:56 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

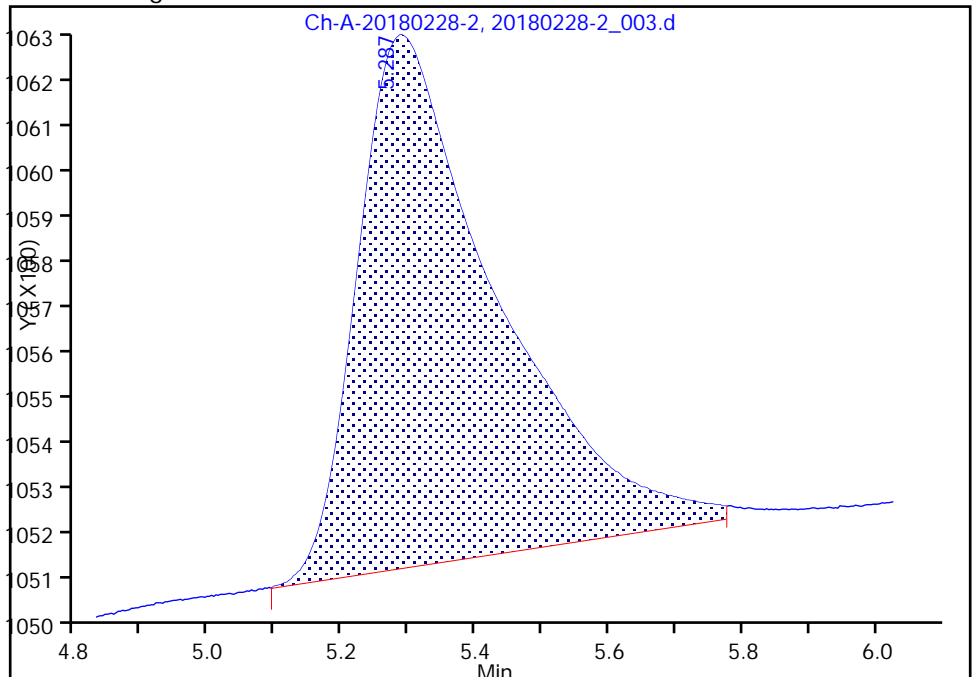
RT: 5.09
Area: 1
Amount: -0.806894
Amount Units: ng/uL

Processing Integration Results



RT: 5.29
Area: 15618
Amount: -0.301071
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:53:34

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_004.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Feb-2018 11:12:05 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 004 Name: LCS
 Misc. Info.: Study: 480-0069540-004 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:54:47 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:54:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.613	2.617	-0.004	291560	5.00	4.60	M
2 Chloride						M
3.347	3.350	-0.003	1861066	50.0	49.2	M
3 Bromide						M
4.653	4.657	-0.004	54315	5.00	4.62	M
4 Nitrate as N						M
4.847	4.847	0.000	345285	NC	NC	M
5 Sulfate						M
5.103	5.097	0.006	1602622	50.0	51.1	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_004.d

Injection Date: 28-Feb-2018 11:12:05

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: LCS

Worklist Smp#: 4

Client ID:

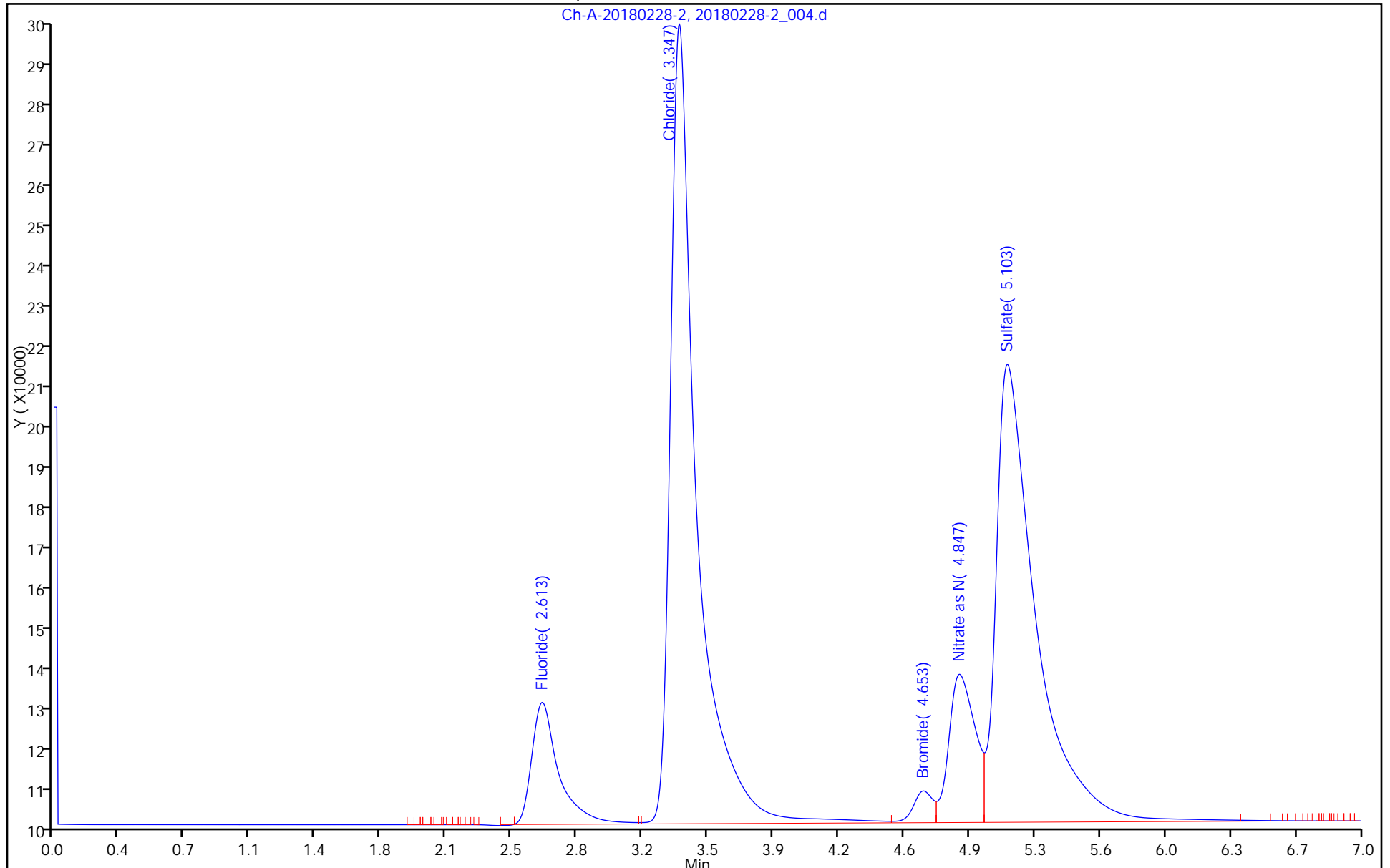
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

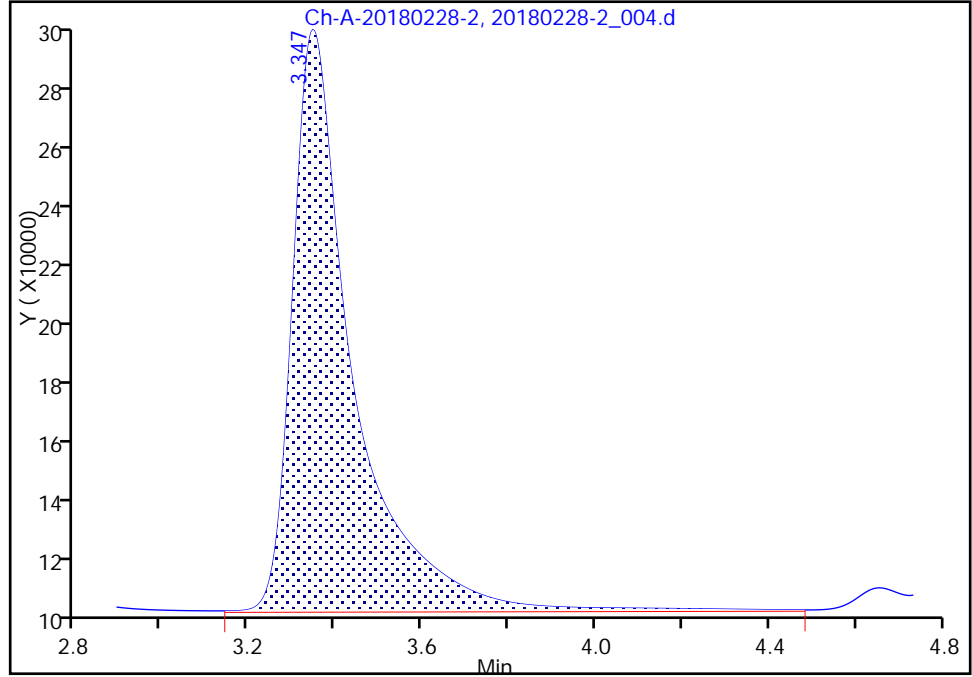
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_004.d
Injection Date: 28-Feb-2018 11:12:05 Instrument ID: IC-2
Lims ID: LCS
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

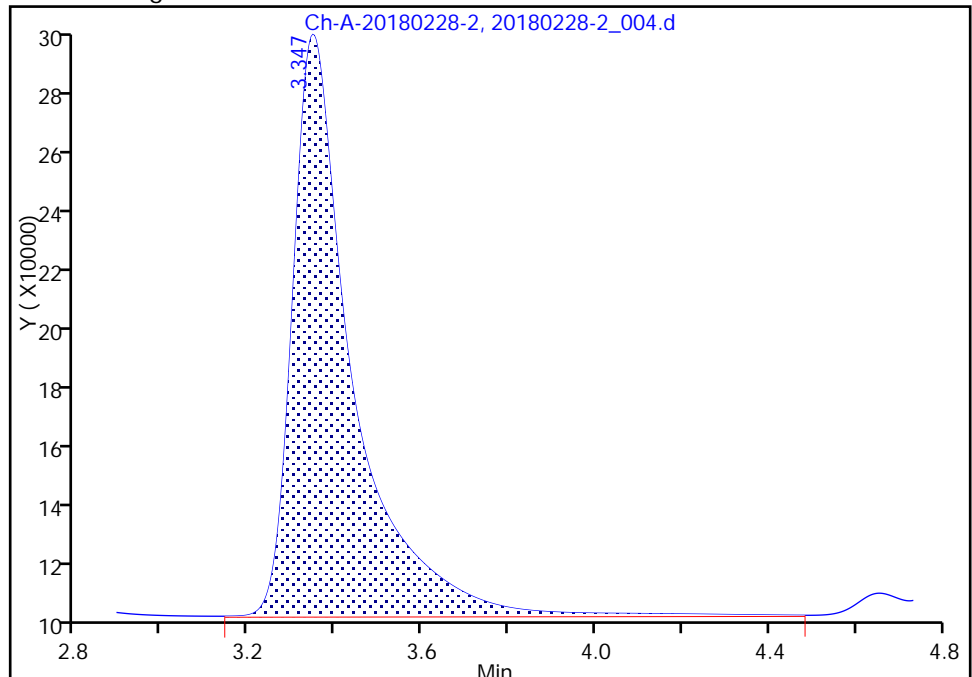
RT: 3.35
Area: 1869749
Amount: 49.429478
Amount Units: ng/uL

Processing Integration Results



RT: 3.35
Area: 1861066
Amount: 49.199930
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:54:13
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

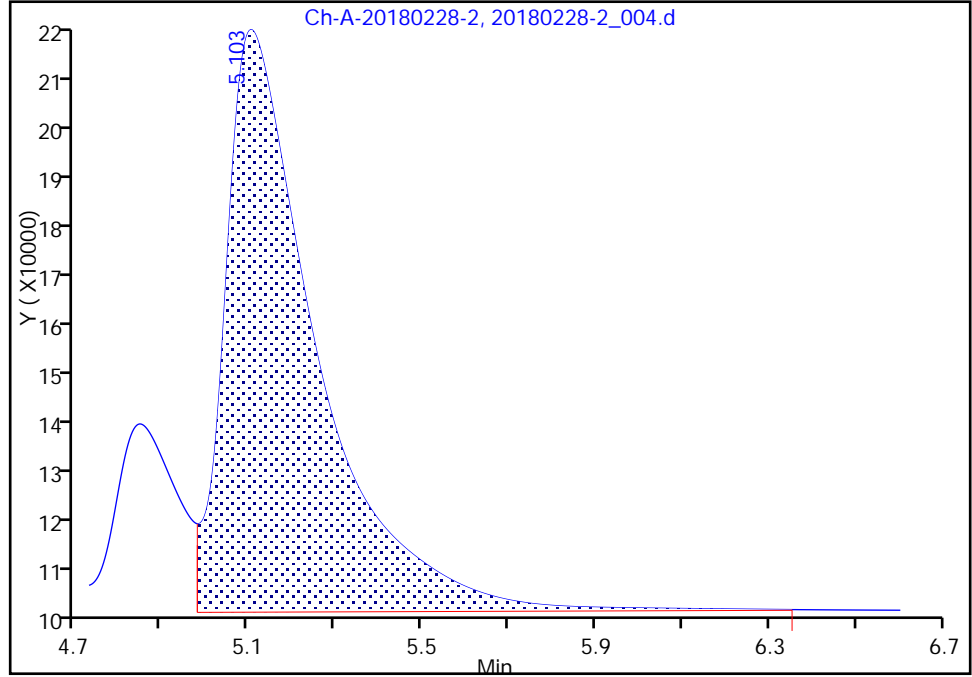
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_004.d
Injection Date: 28-Feb-2018 11:12:05 Instrument ID: IC-2
Lims ID: LCS
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

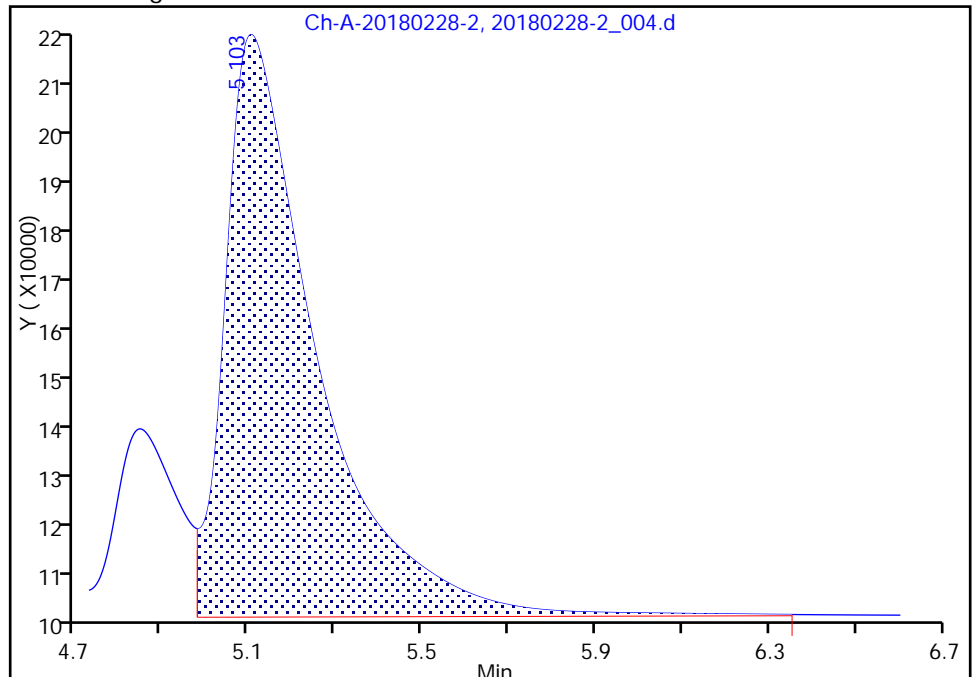
RT: 5.10
Area: 1599161
Amount: 50.988660
Amount Units: ng/uL

Processing Integration Results



RT: 5.10
Area: 1602622
Amount: 51.100759
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:54:13
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_005.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Feb-2018 11:20:13 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 005 Name: MB
 Misc. Info.: Study: 480-0069540-005 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:55:33 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:55:33

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						M
3.373	3.350	0.023	529		0.0140	M
5 Sulfate						a
5.283	5.097	0.186	15785		-0.2957	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_005.d

Injection Date: 28-Feb-2018 11:20:13

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: MB

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

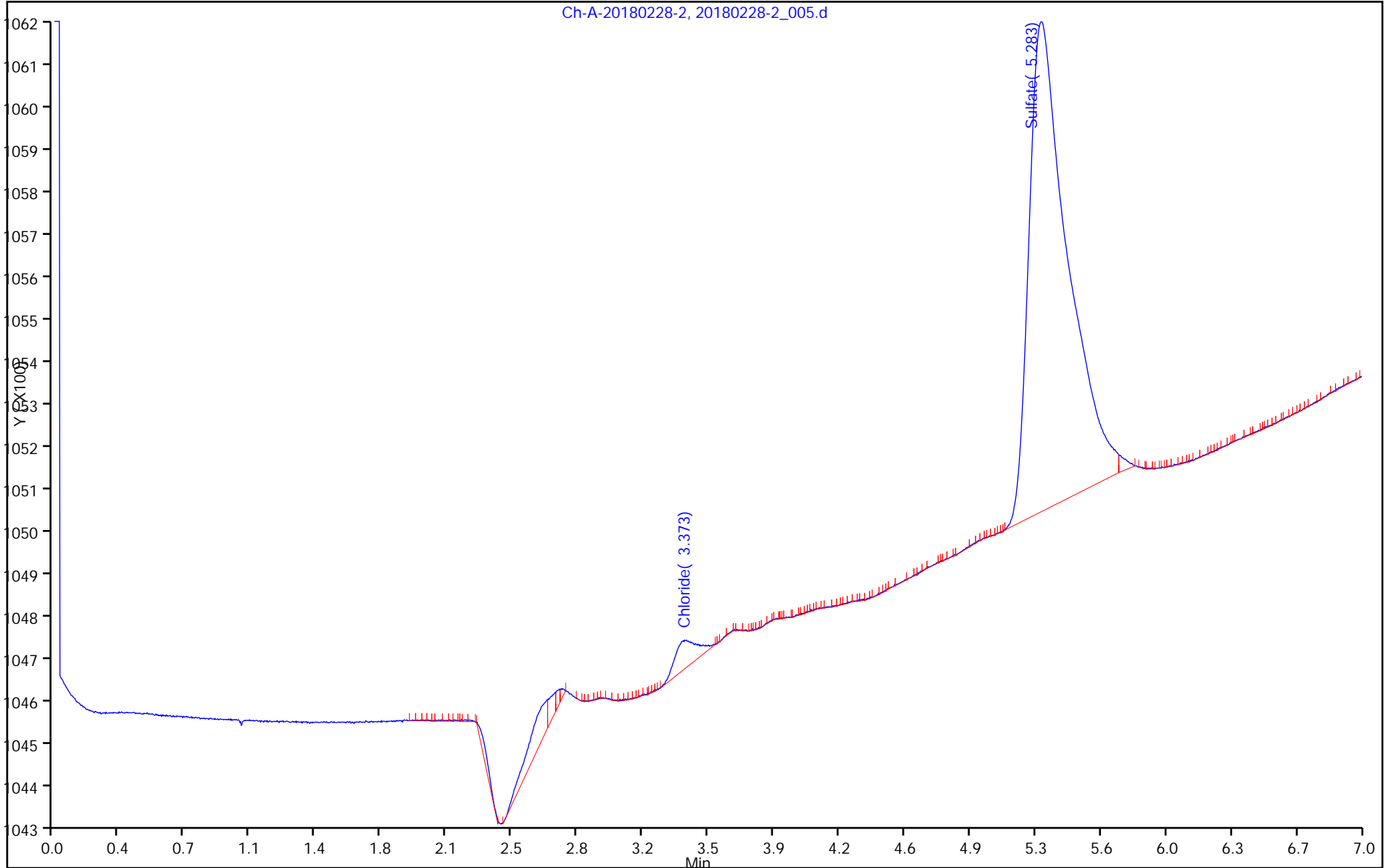
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

Ch-A-20180228-2, 20180228-2_005.d



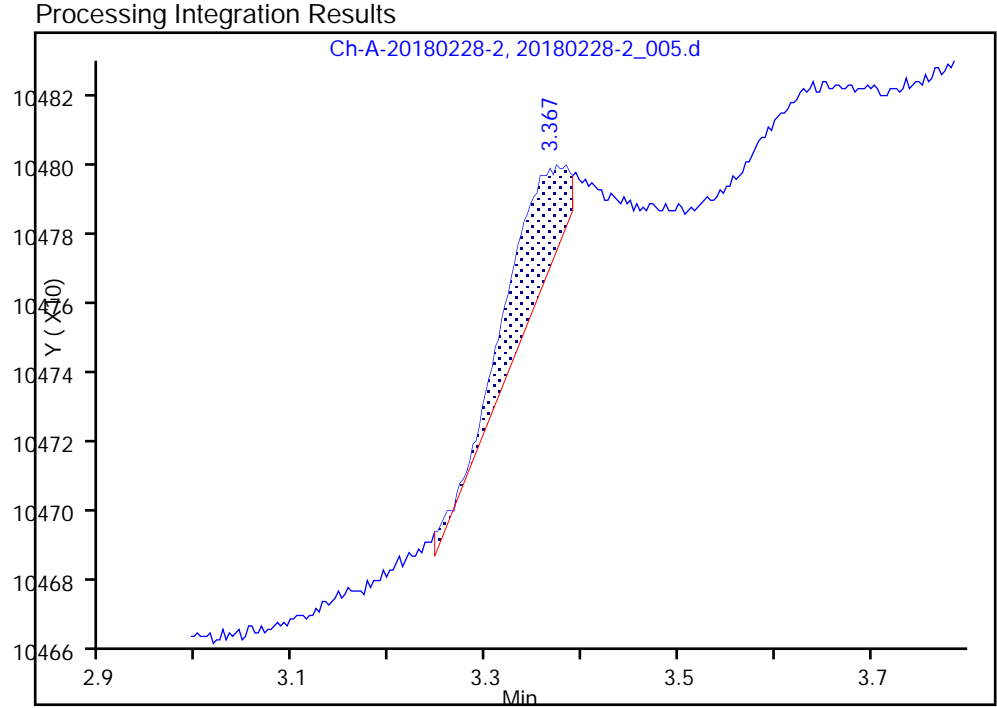
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_005.d
Injection Date: 28-Feb-2018 11:20:13 Instrument ID: IC-2
Lims ID: MB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

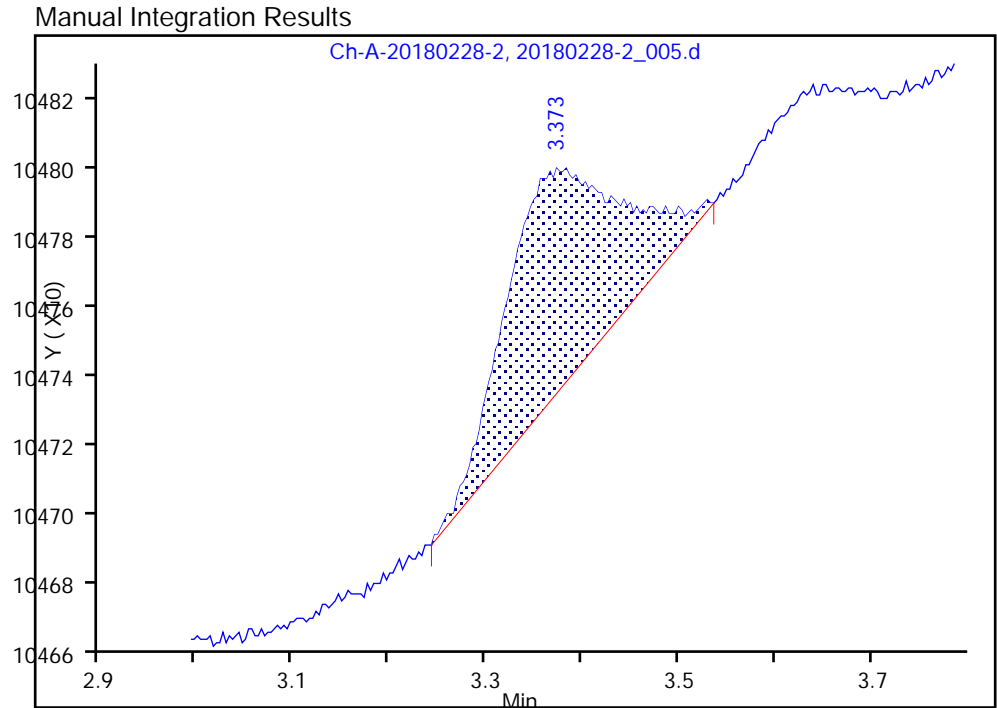
2 Chloride, CAS: 16887-00-6

Signal: 1

RT: 3.37
Area: 138
Amount: 0.003648
Amount Units: ng/uL



RT: 3.37
Area: 529
Amount: 0.013985
Amount Units: ng/uL



Reviewer: abramoc, 28-Feb-2018 16:55:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

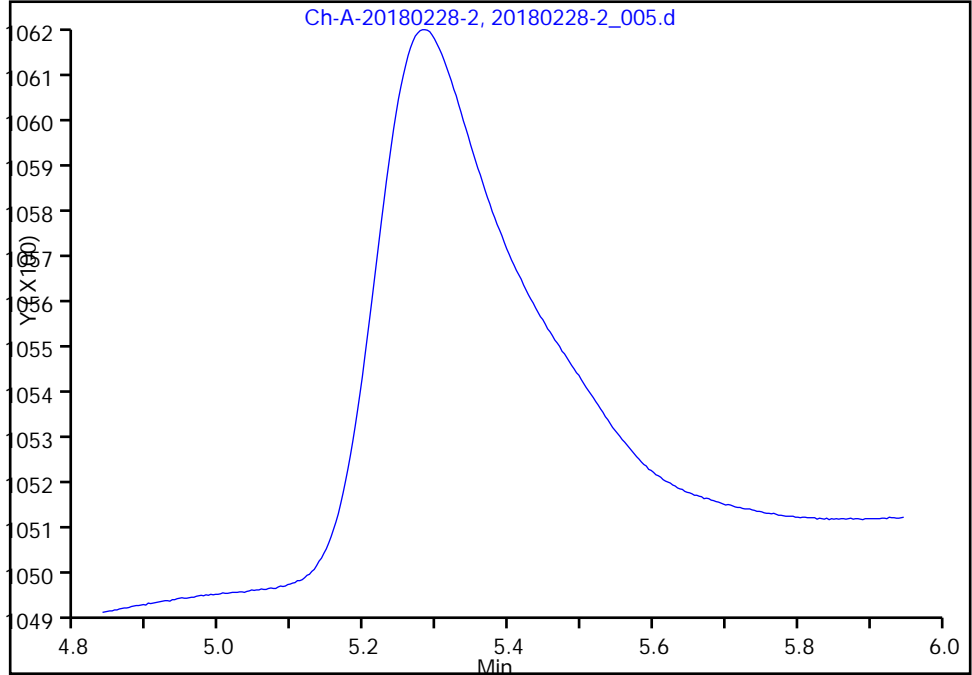
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_005.d
Injection Date: 28-Feb-2018 11:20:13 Instrument ID: IC-2
Lims ID: MB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

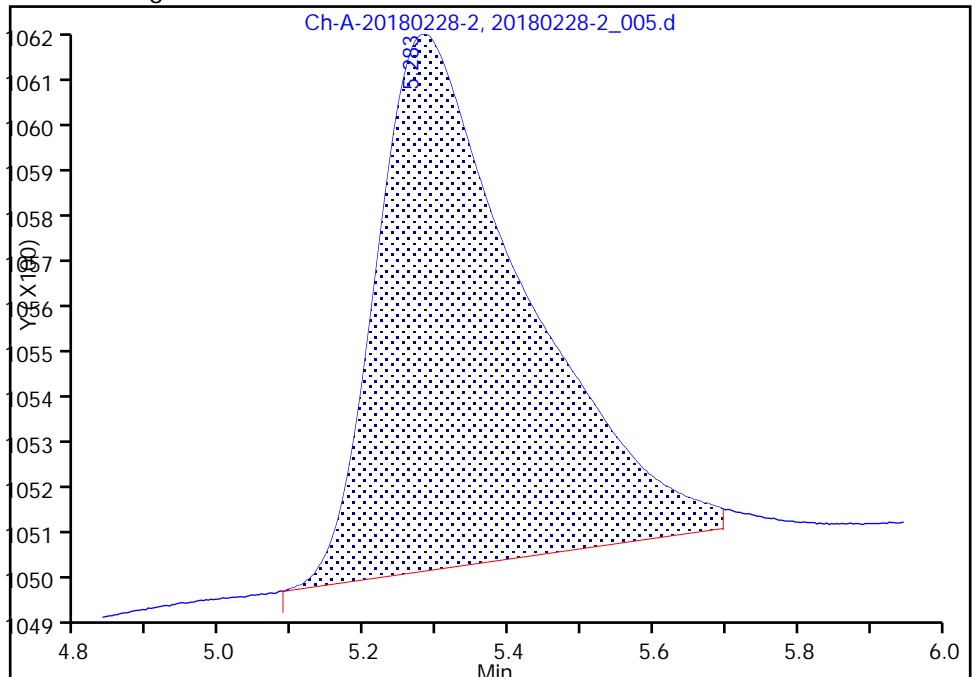
Not Detected
Expected RT: 5.10

Processing Integration Results



RT: 5.28
Area: 15785
Amount: -0.295662
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:55:29

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_006.d
 Lims ID: 480-131737-E-4
 Client ID: ML-7I
 Sample Type: Client
 Inject. Date: 28-Feb-2018 11:28:21 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 5.0000
 Sample Info: #: 006 Name: 480-131737-E-4
 Misc. Info.: Study: 480-0069540-006 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:56:32 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:56:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
2 Chloride					M
3.350	3.350	0.000	2599596	68.7	M
5 Sulfate					Ma
5.220	5.097	0.123	9209	-0.5087	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_006.d

Injection Date: 28-Feb-2018 11:28:21

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-4

Lab Sample ID: 480-131737-4

Worklist Smp#: 6

Client ID: ML-7I

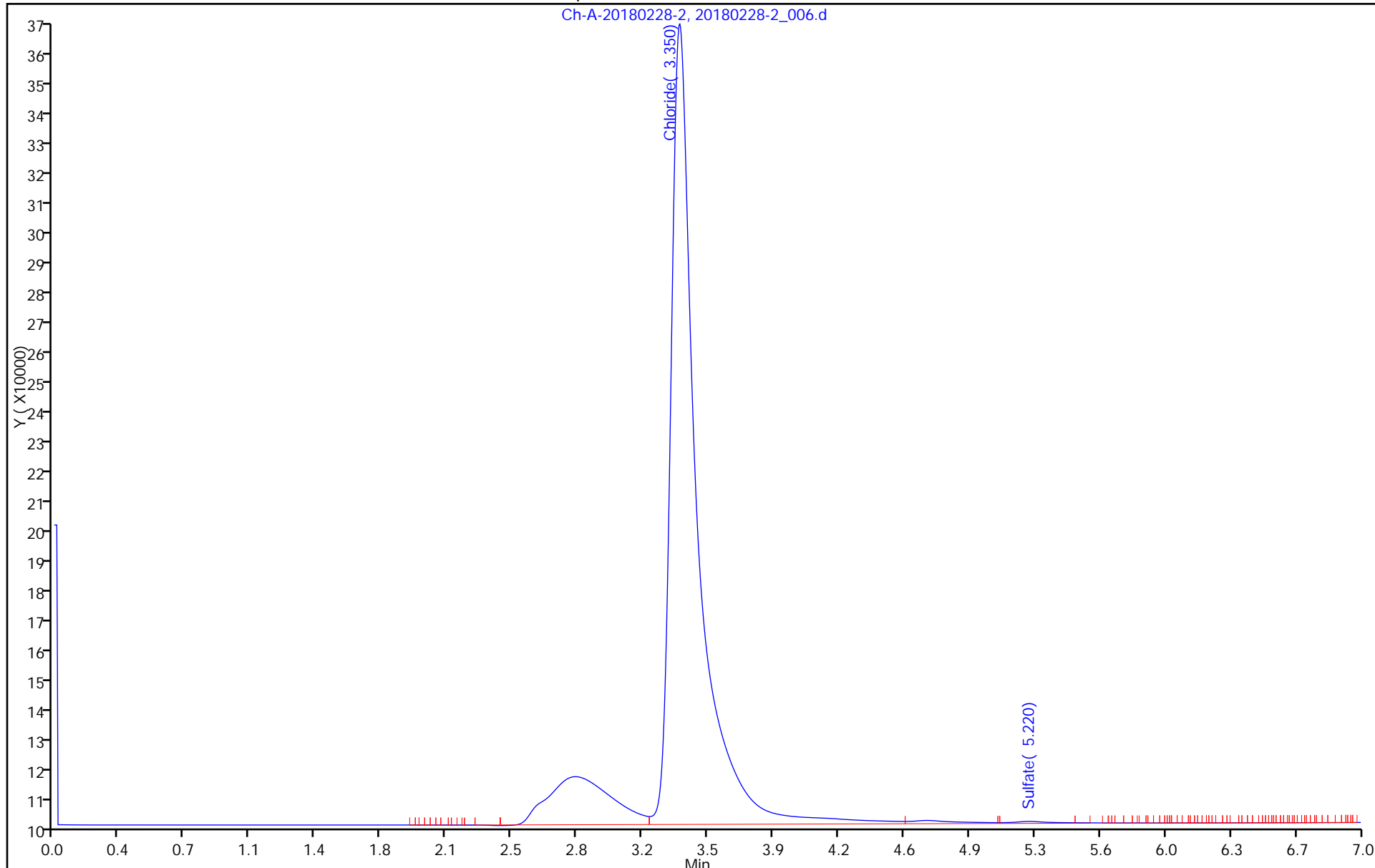
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

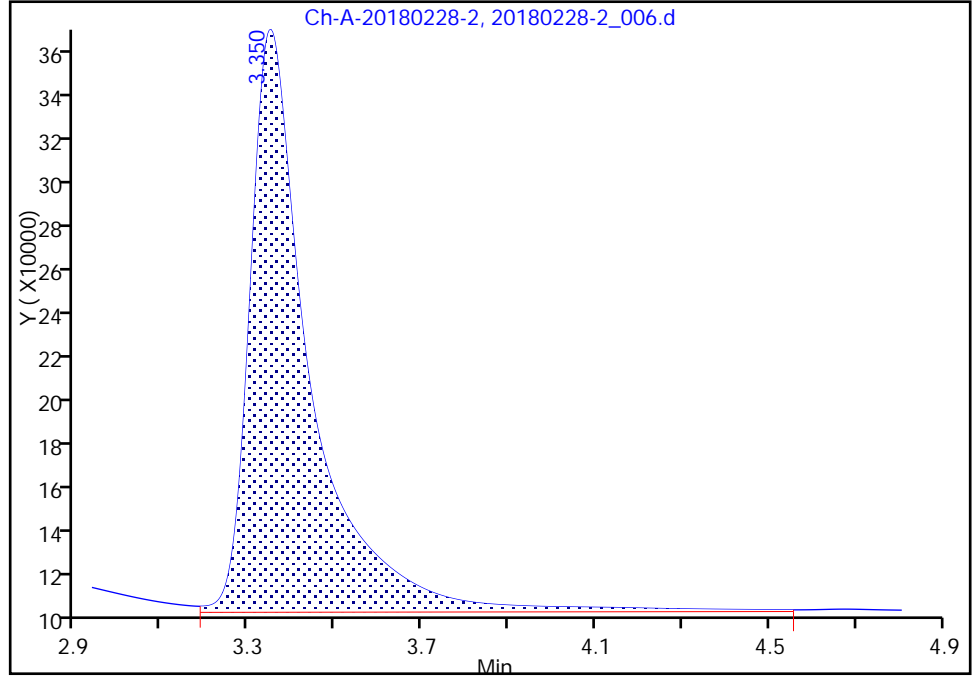
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_006.d
Injection Date: 28-Feb-2018 11:28:21 Instrument ID: IC-2
Lims ID: 480-131737-E-4 Lab Sample ID: 480-131737-4
Client ID: ML-71
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

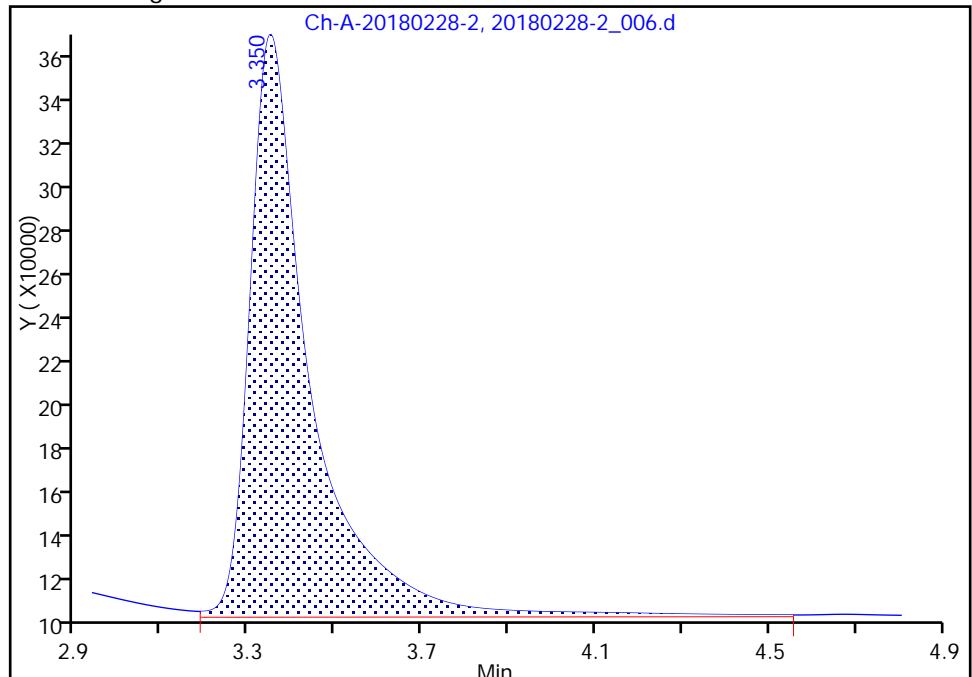
RT: 3.35
Area: 2603830
Amount: 68.835954
Amount Units: ng/uL

Processing Integration Results



RT: 3.35
Area: 2599596
Amount: 68.724023
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:56:10
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

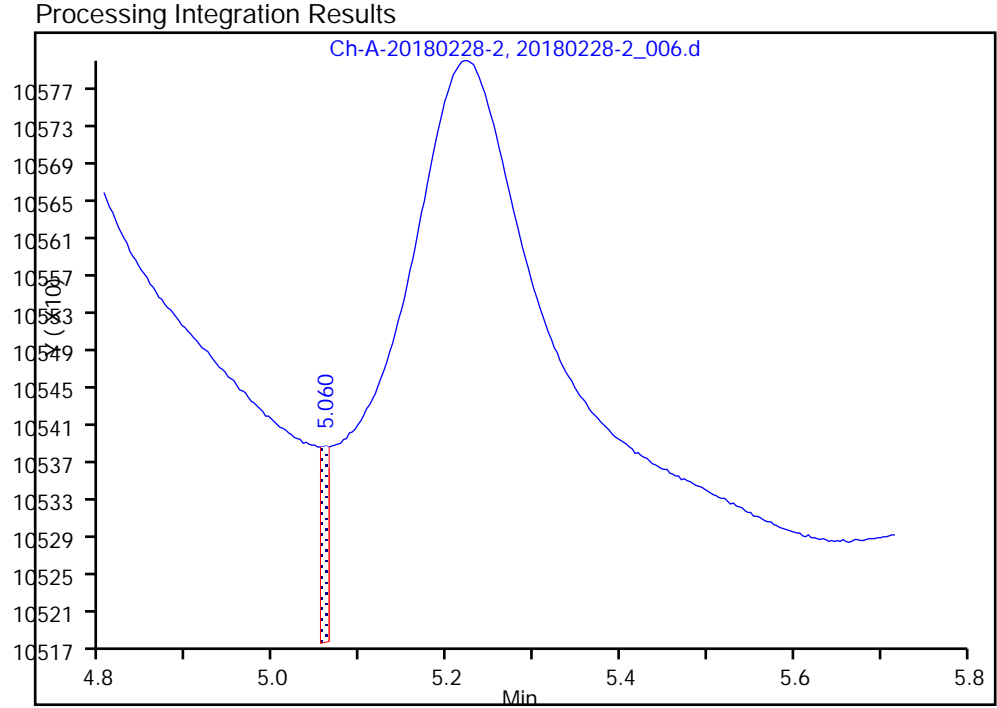
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_006.d
Injection Date: 28-Feb-2018 11:28:21 Instrument ID: IC-2
Lims ID: 480-131737-E-4 Lab Sample ID: 480-131737-4
Client ID: ML-71
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

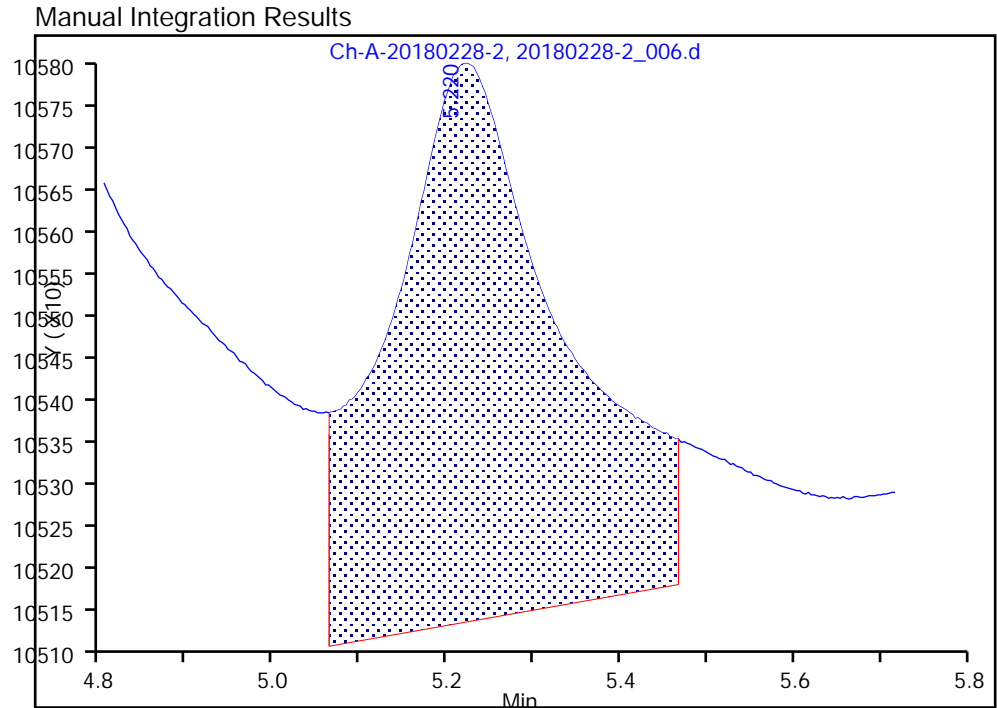
5 Sulfate, CAS: 14808-79-8

Signal: 1

RT: 5.06
Area: 125
Amount: -0.802877
Amount Units: ng/uL



RT: 5.22
Area: 9209
Amount: -0.508654
Amount Units: ng/uL



Reviewer: abramoc, 28-Feb-2018 16:56:28

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_007.d
 Lims ID: 480-131737-E-5
 Client ID: ML-7D
 Sample Type: Client
 Inject. Date: 28-Feb-2018 11:36:30 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 007 Name: 480-131737-E-5
 Misc. Info.: Study: 480-0069540-007 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:57:29 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:57:29

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
2 Chloride					M
3.357	3.350	0.007	1617806	42.8	M
5 Sulfate					M
5.227	5.097	0.130	27881	0.0961	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_007.d

Injection Date: 28-Feb-2018 11:36:30

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-5

Lab Sample ID: 480-131737-5

Worklist Smp#: 7

Client ID: ML-7D

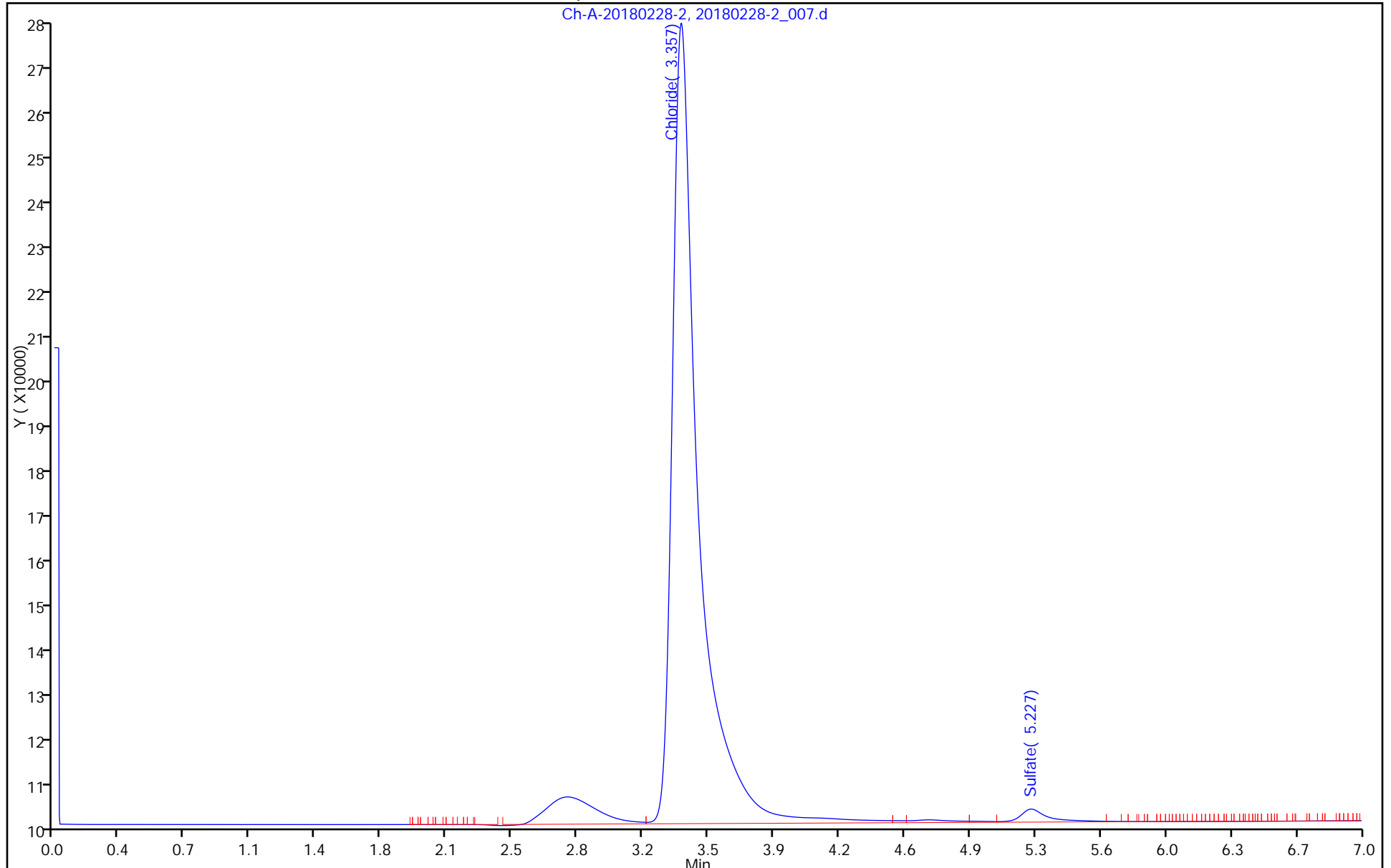
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

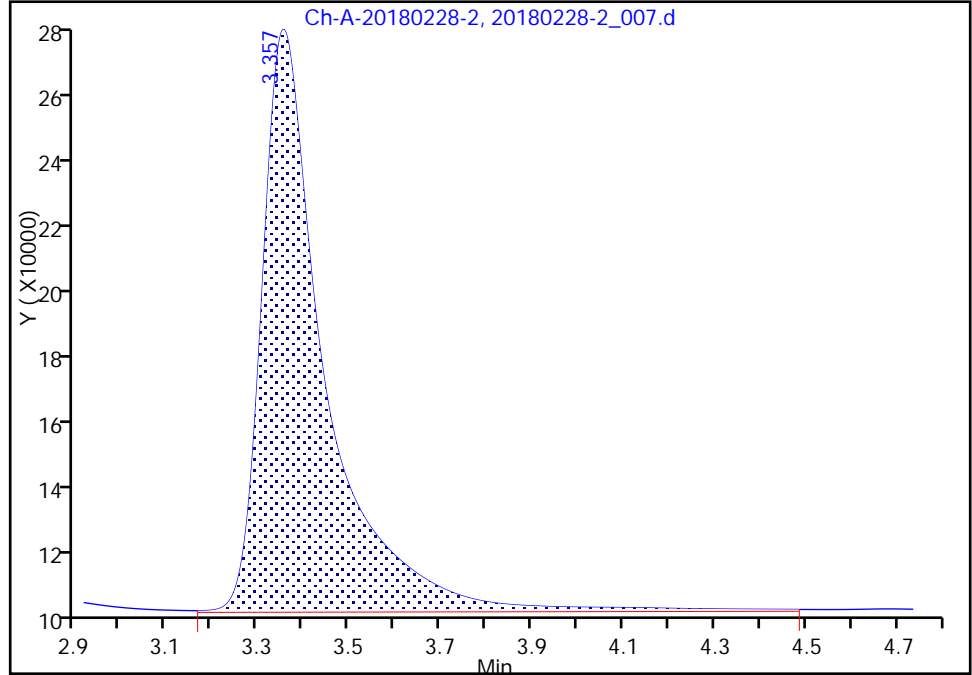
Data File:	\\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_007.d				
Injection Date:	28-Feb-2018 11:36:30	Instrument ID:	IC-2		
Lims ID:	480-131737-E-5	Lab Sample ID:	480-131737-5		
Client ID:	ML-7D				
Operator ID:	tchrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	IC2-300	Limit Group:	MB 9056 ICAL		
Column:		Detector:	Ch-A-092410-2		

2 Chloride, CAS: 16887-00-6

Signal: 1

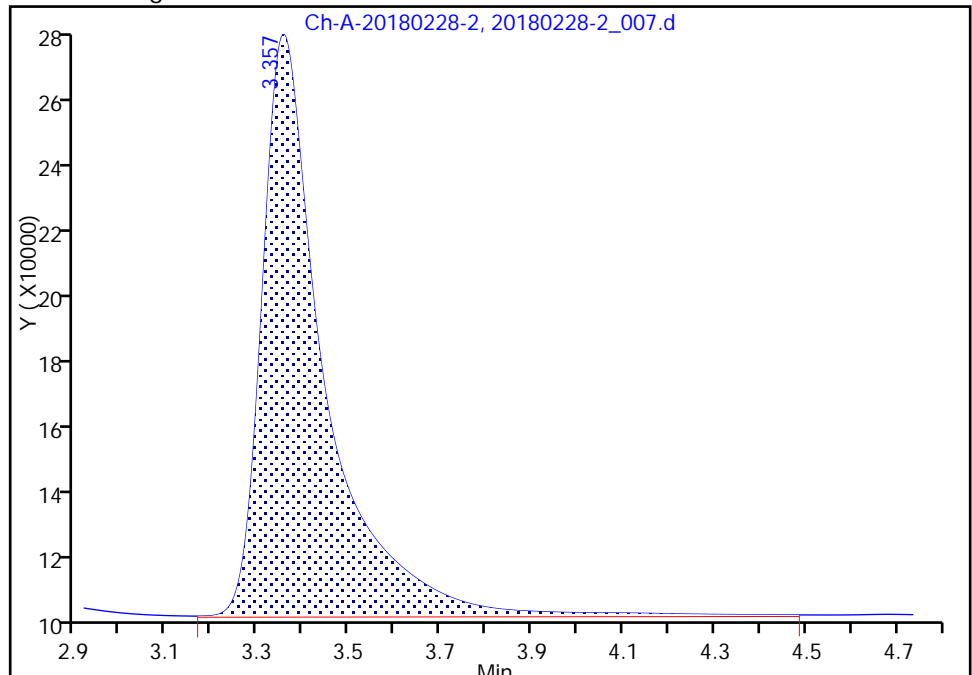
RT: 3.36
Area: 1627310
Amount: 43.020257
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 1617806
Amount: 42.769006
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:57:00
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

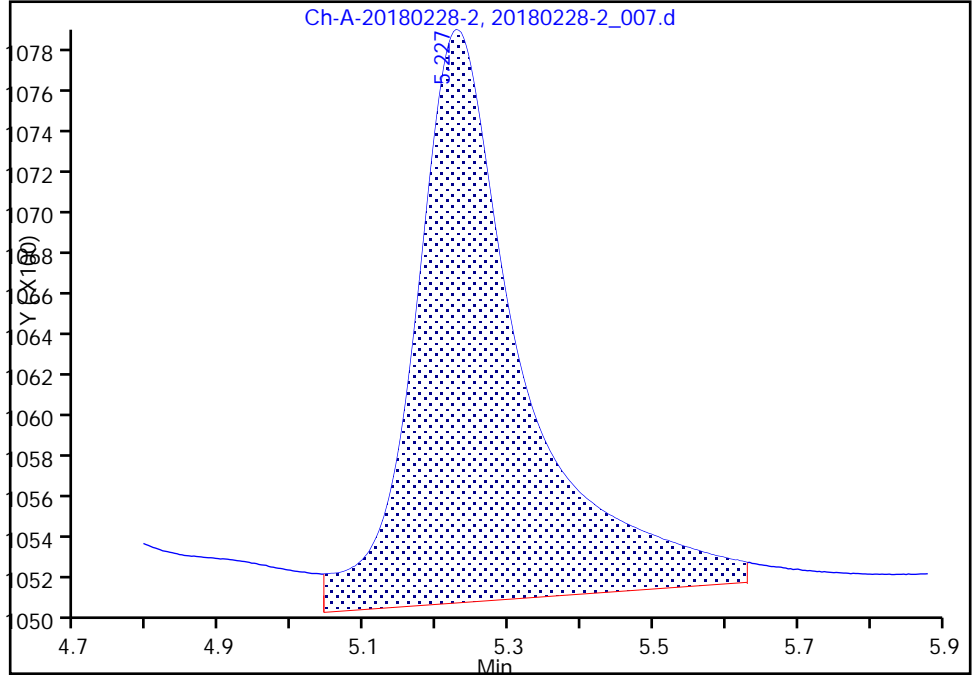
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_007.d
Injection Date: 28-Feb-2018 11:36:30 Instrument ID: IC-2
Lims ID: 480-131737-E-5 Lab Sample ID: 480-131737-5
Client ID: ML-7D
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

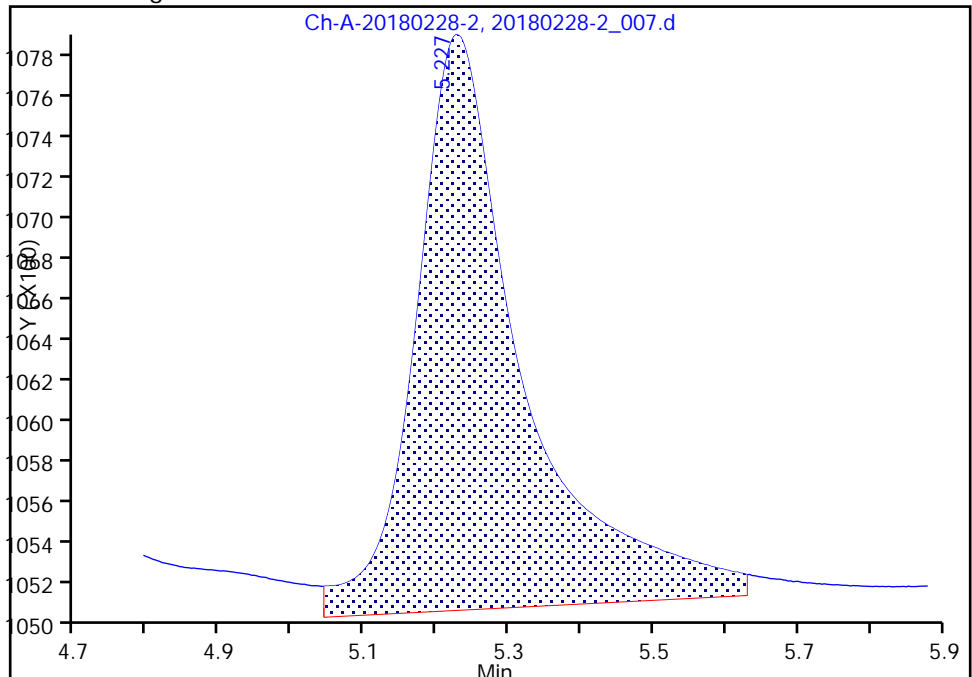
RT: 5.23
Area: 28462
Amount: 0.114936
Amount Units: ng/uL

Processing Integration Results



RT: 5.23
Area: 27881
Amount: 0.096118
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:57:00
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_008.d
 Lims ID: 480-131737-E-6
 Client ID: LBA-SBW-15
 Sample Type: Client
 Inject. Date: 28-Feb-2018 11:44:38 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 008 Name: 480-131737-E-6
 Misc. Info.: Study: 480-0069540-008 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:58:27 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:58:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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2 Chloride					M
3.350	3.350	0.000	2790969	73.8	M
5 Sulfate					M
5.187	5.097	0.090	304595	9.06	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_008.d

Injection Date: 28-Feb-2018 11:44:38

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-6

Lab Sample ID: 480-131737-6

Worklist Smp#: 8

Client ID: LBA-SBW-15

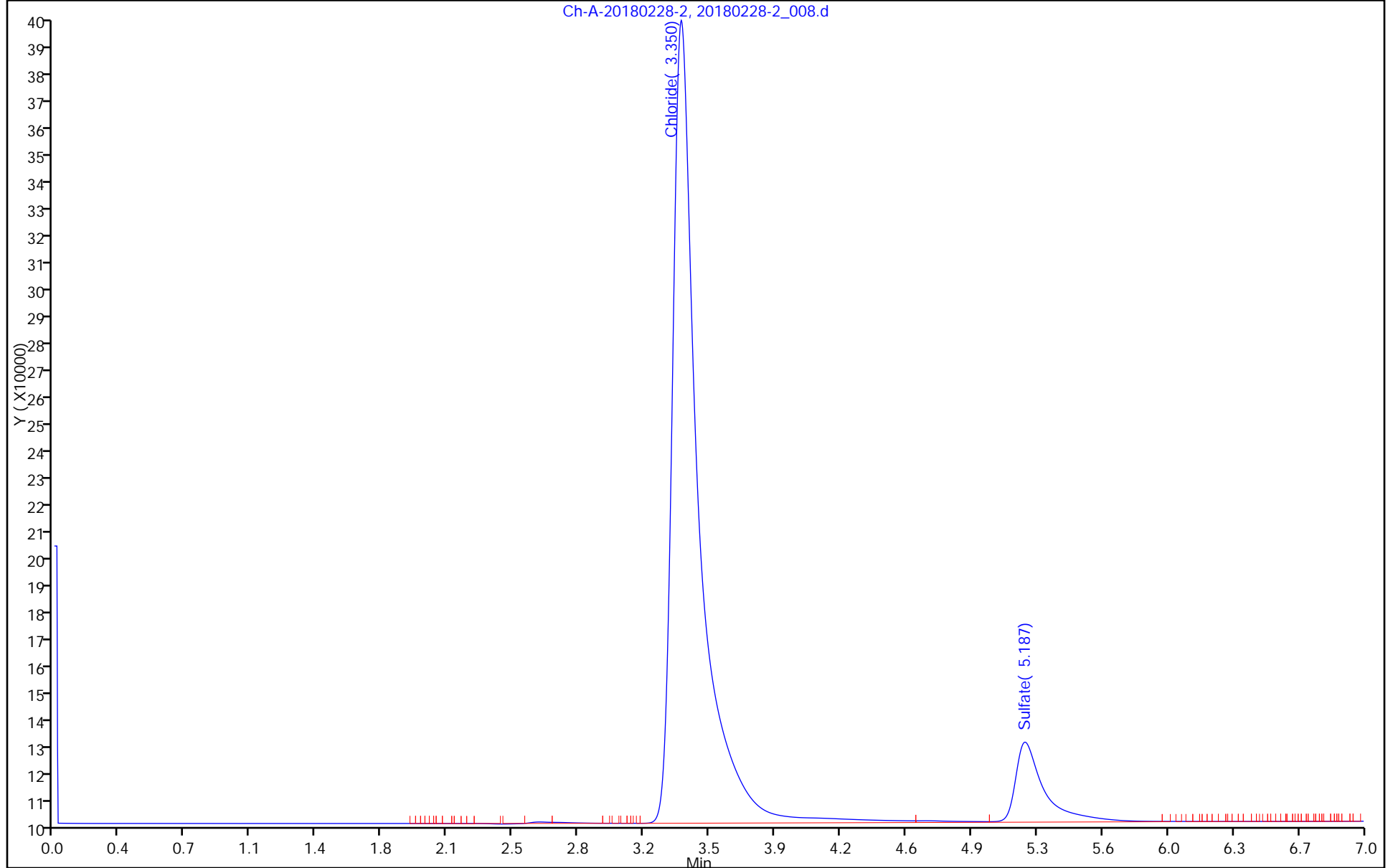
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

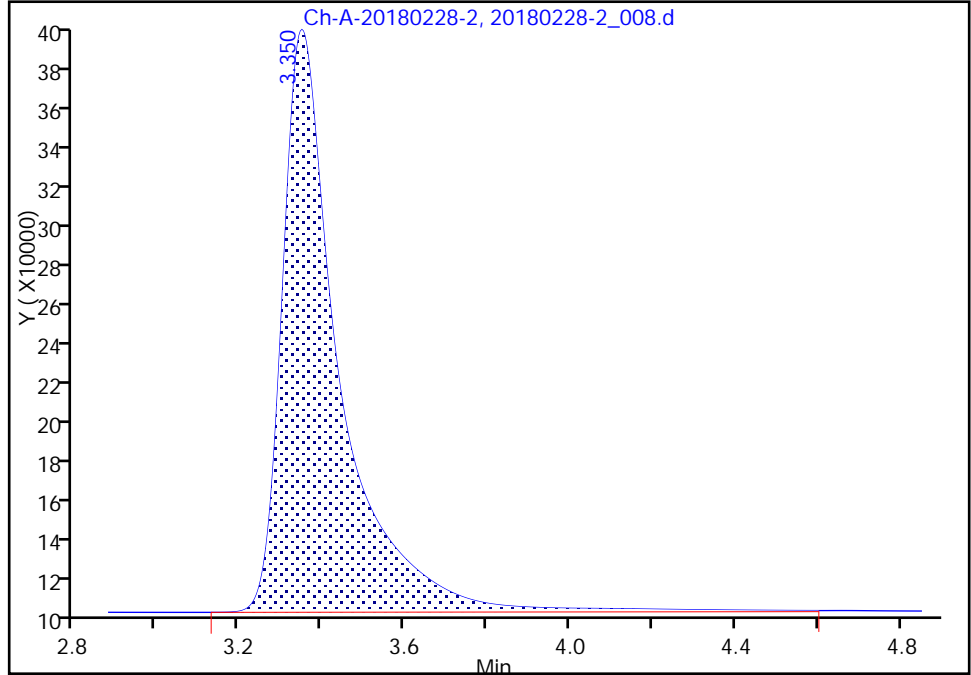
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_008.d
Injection Date: 28-Feb-2018 11:44:38 Instrument ID: IC-2
Lims ID: 480-131737-E-6 Lab Sample ID: 480-131737-6
Client ID: LBA-SBW-15
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

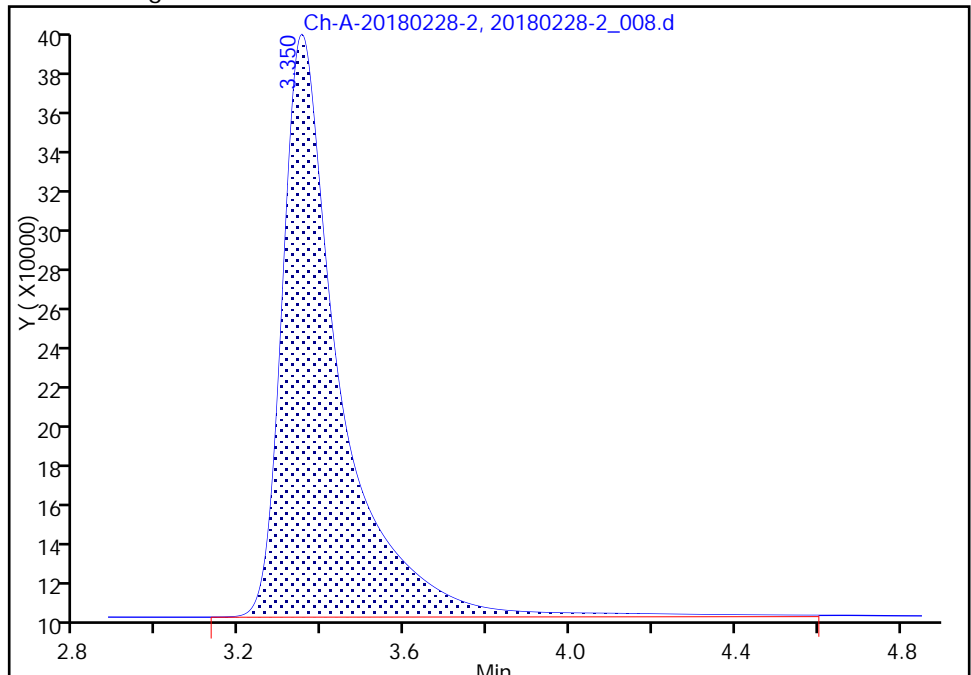
RT: 3.35
Area: 2786638
Amount: 73.668744
Amount Units: ng/uL

Processing Integration Results



RT: 3.35
Area: 2790969
Amount: 73.783240
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:57:56
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

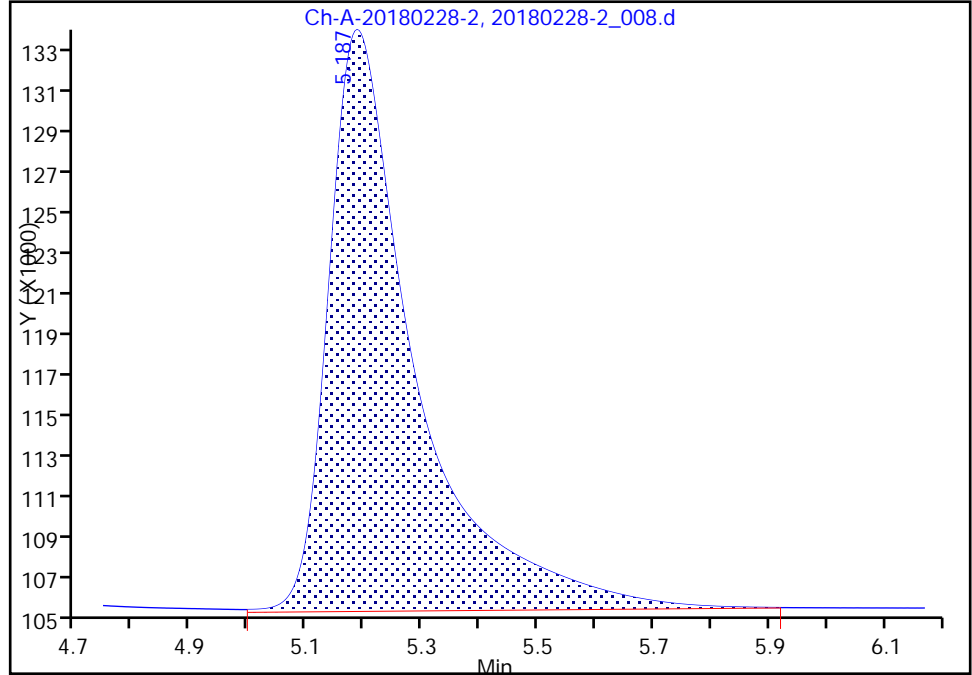
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_008.d
Injection Date: 28-Feb-2018 11:44:38 Instrument ID: IC-2
Lims ID: 480-131737-E-6 Lab Sample ID: 480-131737-6
Client ID: LBA-SBW-15
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

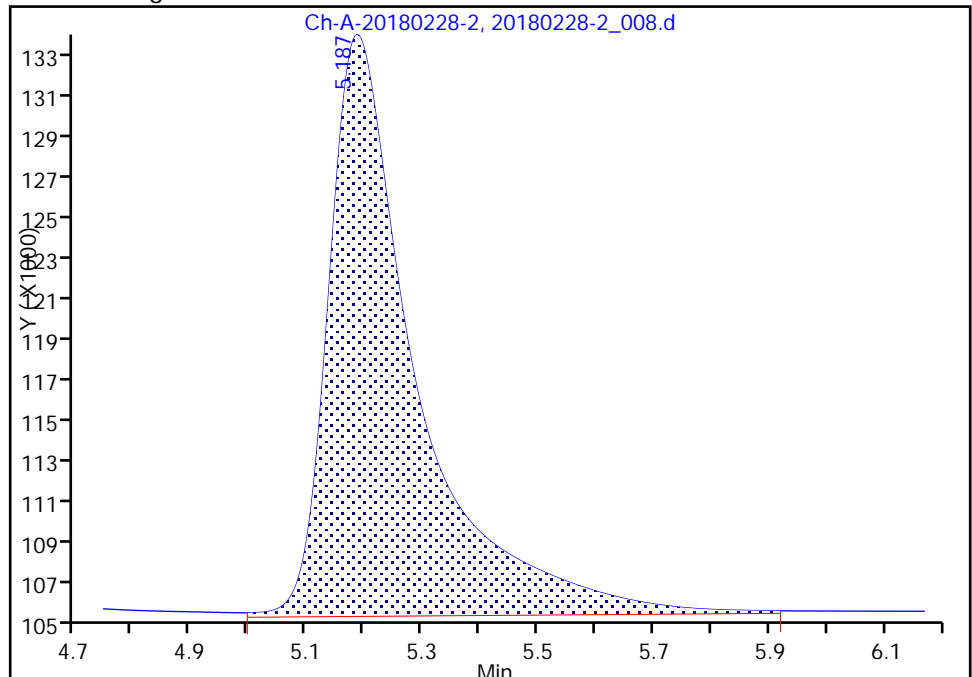
RT: 5.19
Area: 299442
Amount: 8.891768
Amount Units: ng/uL

Processing Integration Results



RT: 5.19
Area: 304595
Amount: 9.058670
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:57:56
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_009.d
 Lims ID: 480-131737-E-8
 Client ID: LBA-SBW-16
 Sample Type: Client
 Inject. Date: 28-Feb-2018 11:52:47 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 009 Name: 480-131737-E-8
 Misc. Info.: Study: 480-0069540-009 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 16:59:29 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 16:59:29

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
--------------	------------------	------------------	----------	--------------------	-------

2 Chloride					M
3.357	3.350	0.007	1302453	34.4	M
5 Sulfate					Ma
5.233	5.097	0.136	37609	0.4112	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_009.d

Injection Date: 28-Feb-2018 11:52:47

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: 480-131737-E-8

Lab Sample ID: 480-131737-8

Worklist Smp#: 9

Client ID: LBA-SBW-16

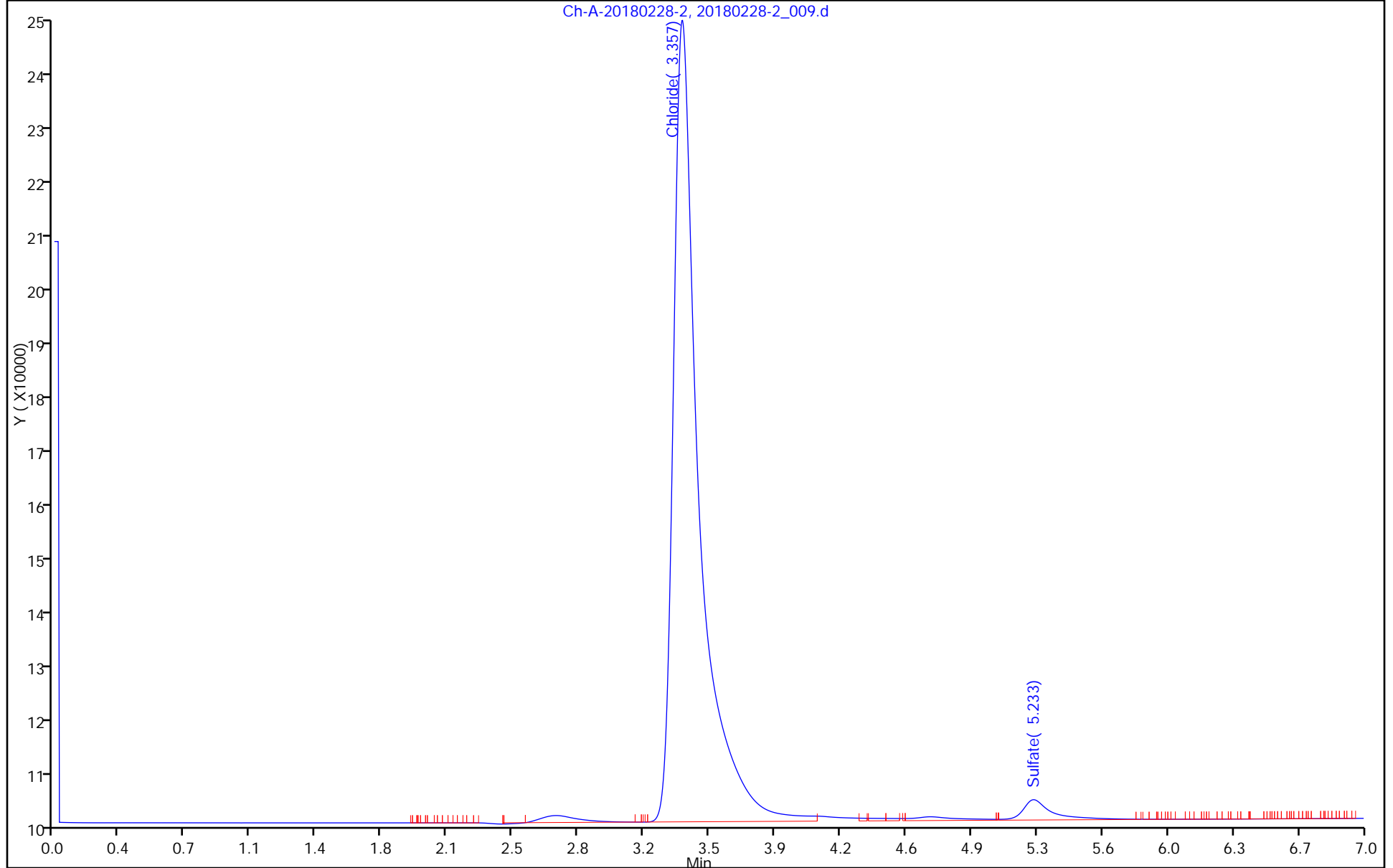
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

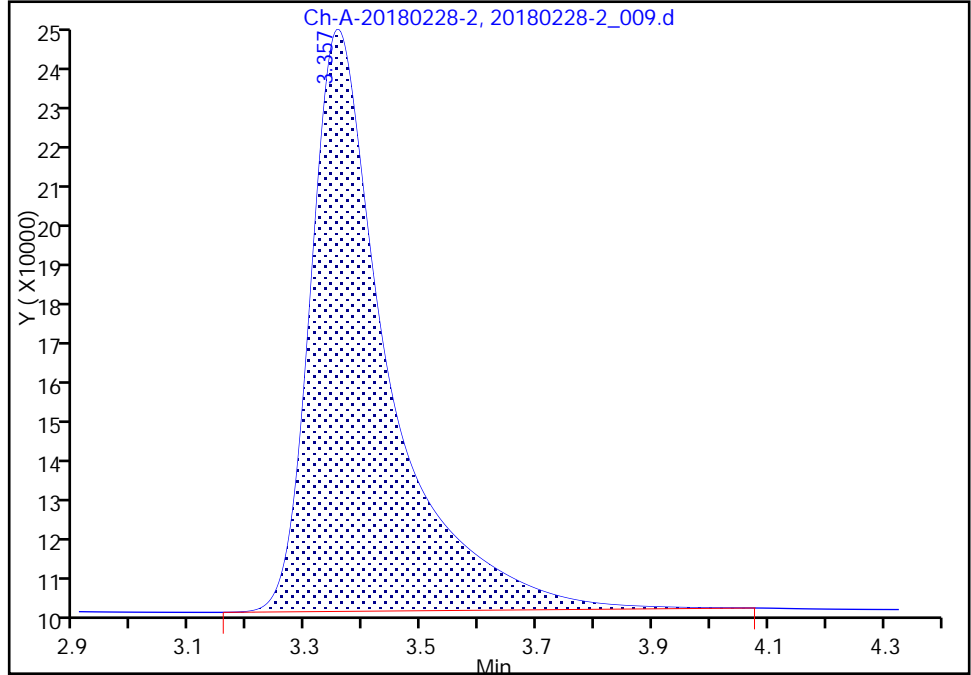
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_009.d
Injection Date: 28-Feb-2018 11:52:47 Instrument ID: IC-2
Lims ID: 480-131737-E-8 Lab Sample ID: 480-131737-8
Client ID: LBA-SBW-16
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

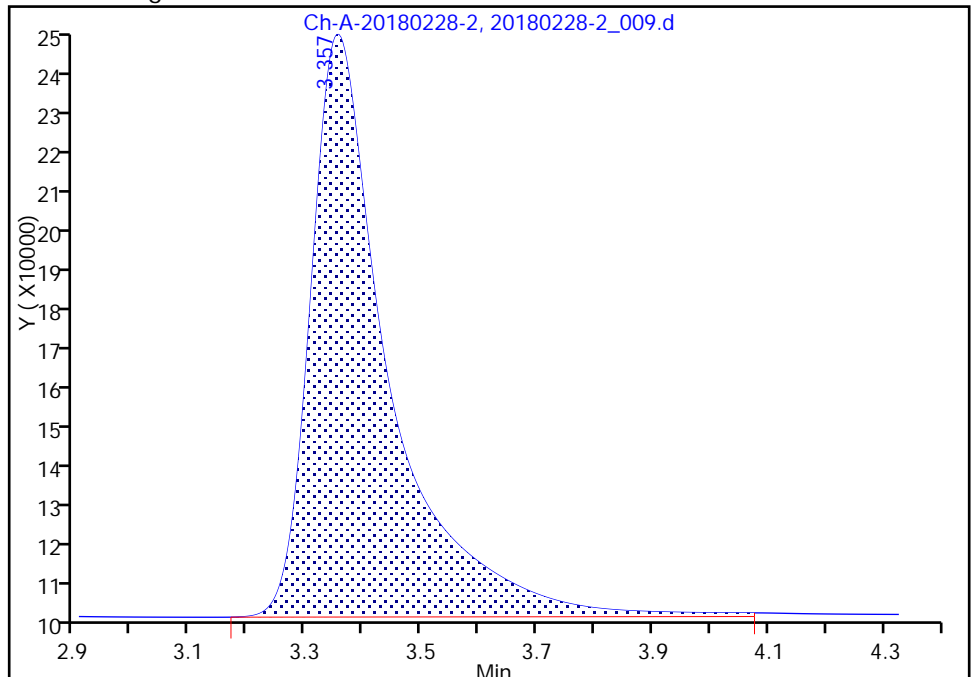
RT: 3.36
Area: 1279257
Amount: 33.818981
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 1302453
Amount: 34.432200
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:59:11
Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

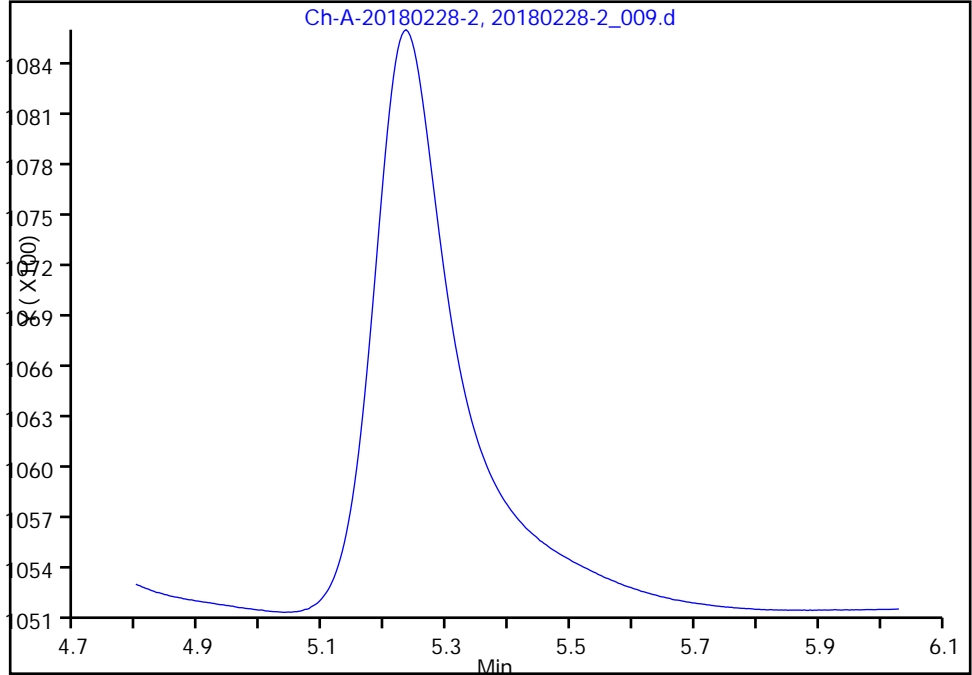
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_009.d
Injection Date: 28-Feb-2018 11:52:47 Instrument ID: IC-2
Lims ID: 480-131737-E-8 Lab Sample ID: 480-131737-8
Client ID: LBA-SBW-16
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

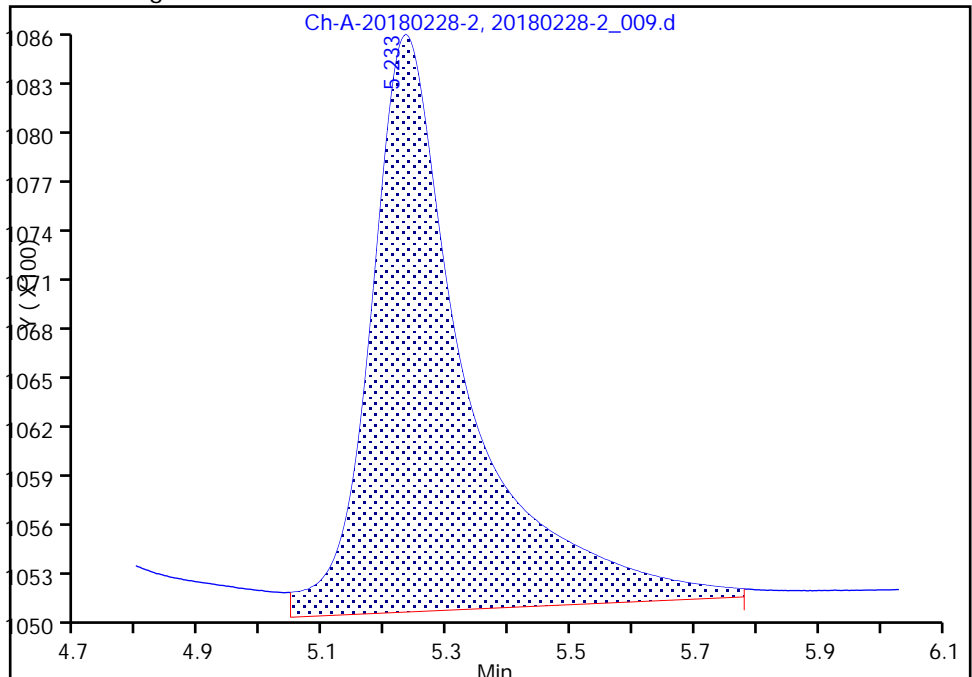
Not Detected
Expected RT: 5.10

Processing Integration Results



RT: 5.23
Area: 37609
Amount: 0.411200
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 16:59:17

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_014.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Feb-2018 12:33:29 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 014 Name: CCV
 Misc. Info.: Study: 480-0069540-014 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 17:04:21 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 17:04:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.620	2.620	0.000	288639	5.00	4.56	M
2 Chloride						M
3.357	3.357	0.000	1869133	50.0	49.4	M
3 Bromide						M
4.667	4.667	0.000	55442	5.00	4.72	M
4 Nitrate as N						M
4.860	4.860	0.000	342738	NC	NC	M
5 Sulfate						M
5.110	5.110	0.000	1592701	50.0	50.8	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00191 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_014.d

Injection Date: 28-Feb-2018 12:33:29

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCV

Worklist Smp#: 14

Client ID:

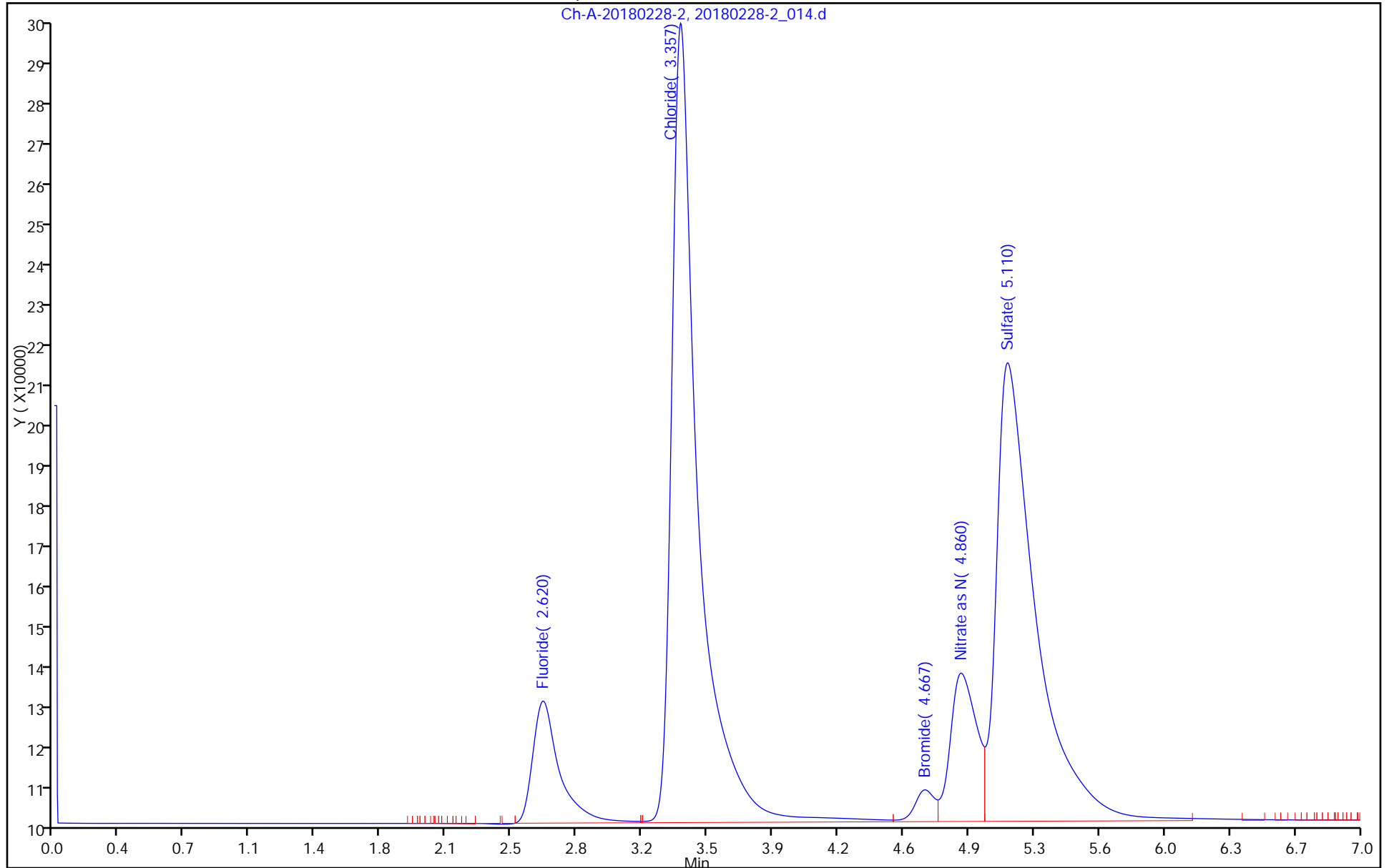
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

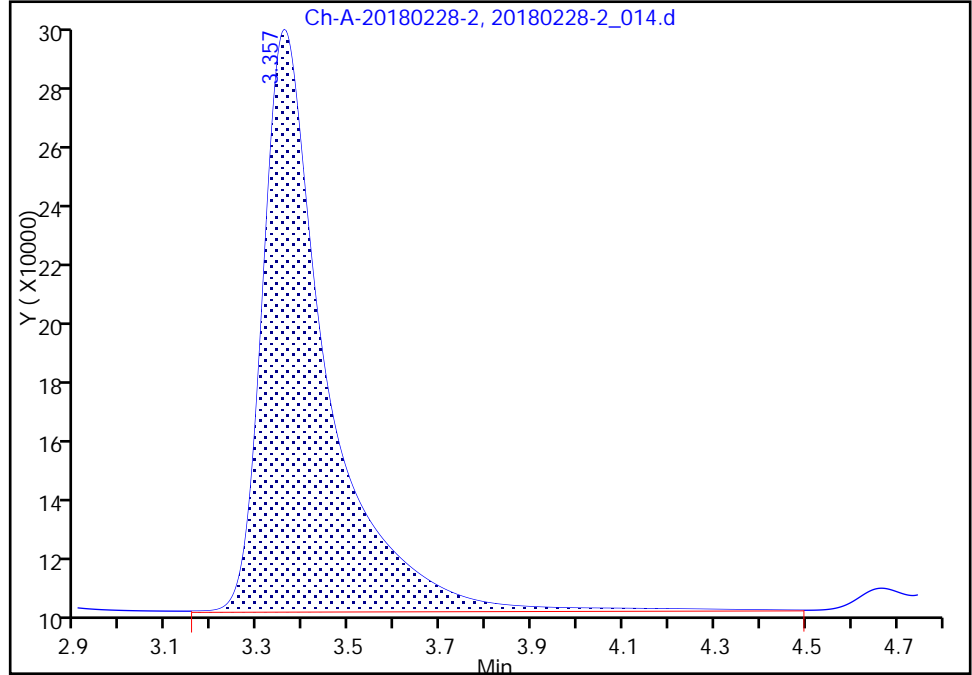
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_014.d
Injection Date: 28-Feb-2018 12:33:29 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

2 Chloride, CAS: 16887-00-6

Signal: 1

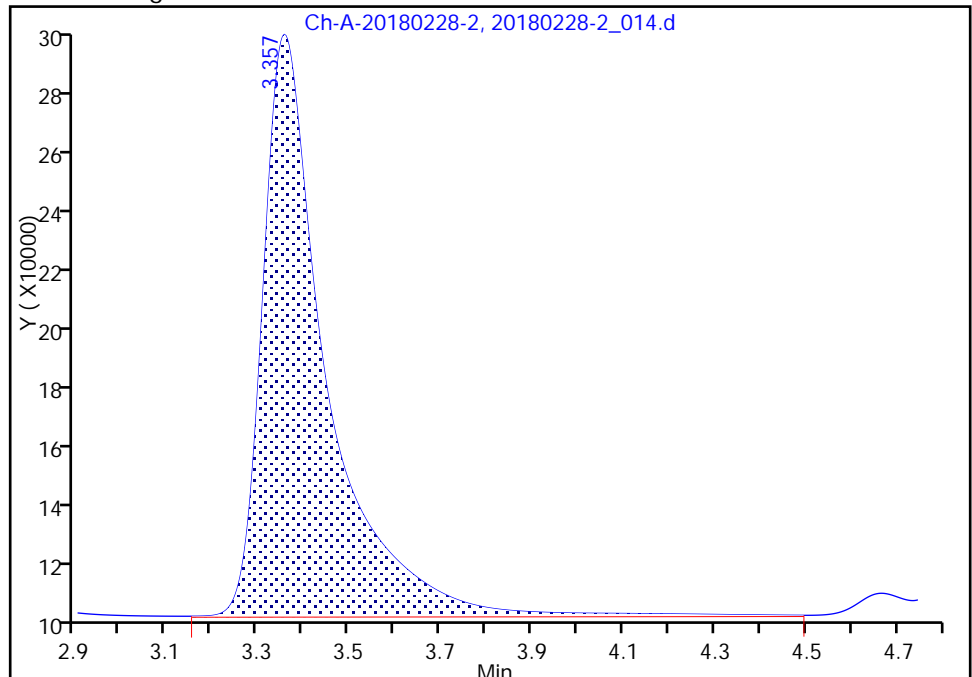
RT: 3.36
Area: 1864136
Amount: 49.281090
Amount Units: ng/uL

Processing Integration Results



RT: 3.36
Area: 1869133
Amount: 49.413193
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 17:03:50
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

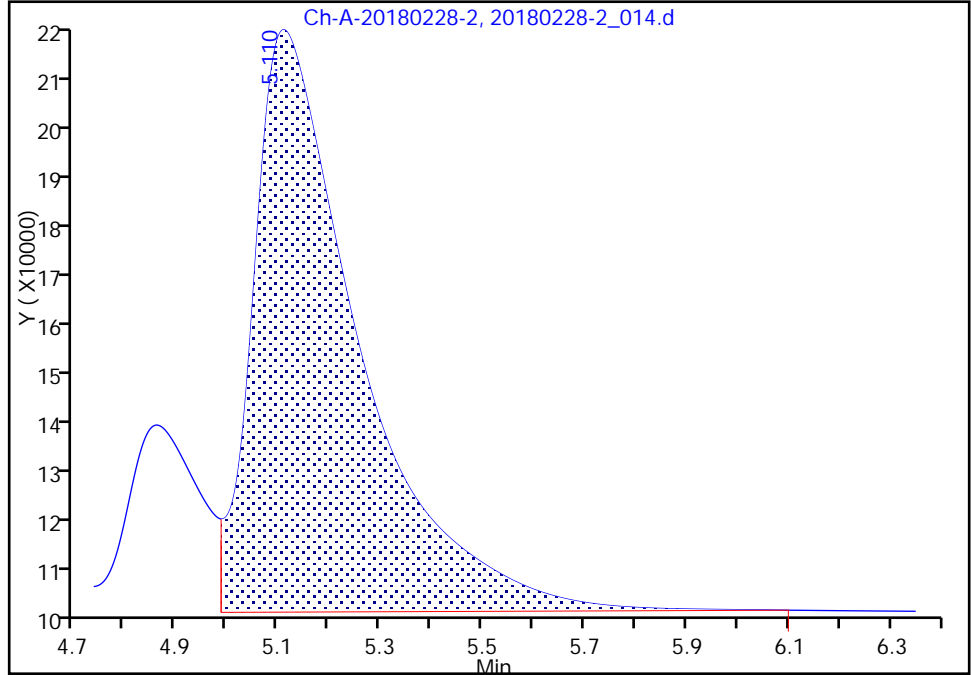
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_014.d
Injection Date: 28-Feb-2018 12:33:29 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

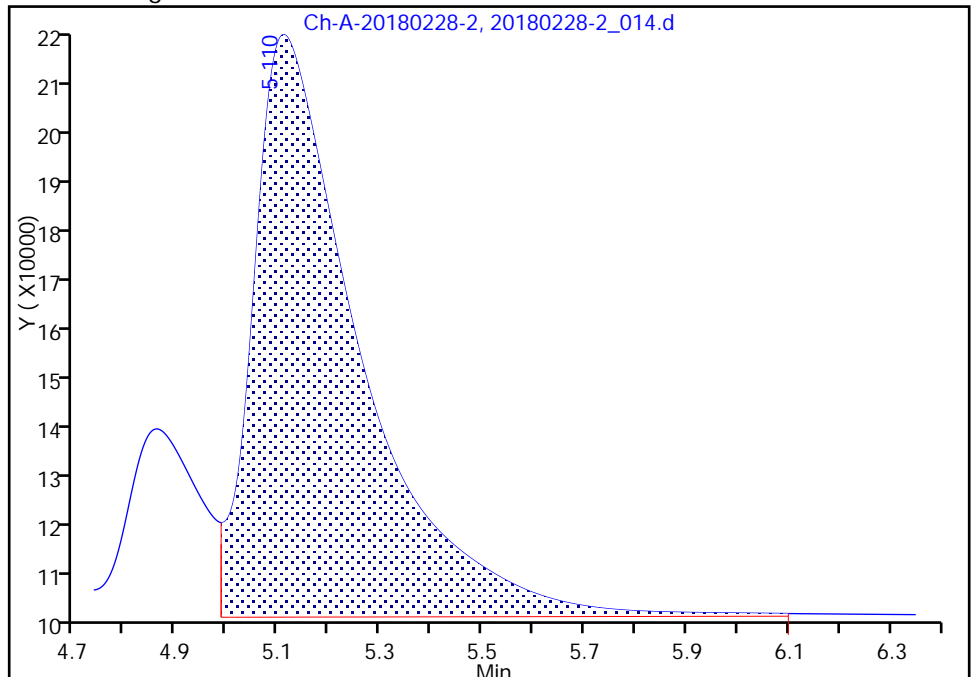
RT: 5.11
Area: 1566816
Amount: 49.941030
Amount Units: ng/uL

Processing Integration Results



RT: 5.11
Area: 1592701
Amount: 50.779425
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 17:03:50

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_015.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 28-Feb-2018 12:41:38 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 015 Name: CCB
 Misc. Info.: Study: 480-0069540-015 Channel A: I/F Serial#, 6254272415
 Operator ID: tchrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 28-Feb-2018 17:04:53 Calib Date: 20-Feb-2018 17:51:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180220-69378.b\20180210-2_338.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK007

First Level Reviewer: abramoc Date: 28-Feb-2018 17:04:53

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 Chloride						M
3.363	3.357	0.006	632		0.0167	M
5 Sulfate						a
5.297	5.110	0.187	14713		-0.3304	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_015.d

Injection Date: 28-Feb-2018 12:41:38

Instrument ID: IC-2

Operator ID: tchrom

Lims ID: CCB

Worklist Smp#: 15

Client ID:

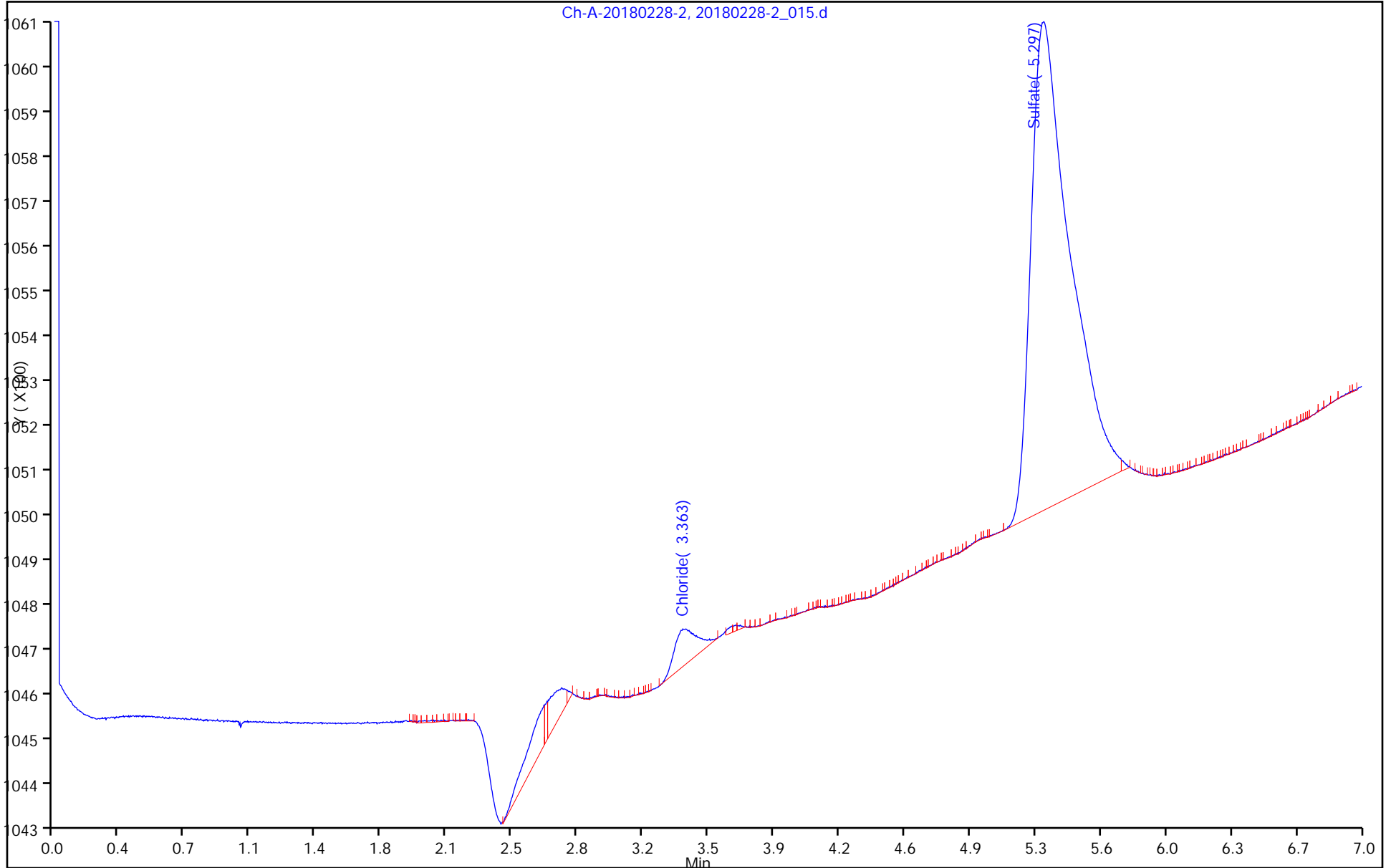
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



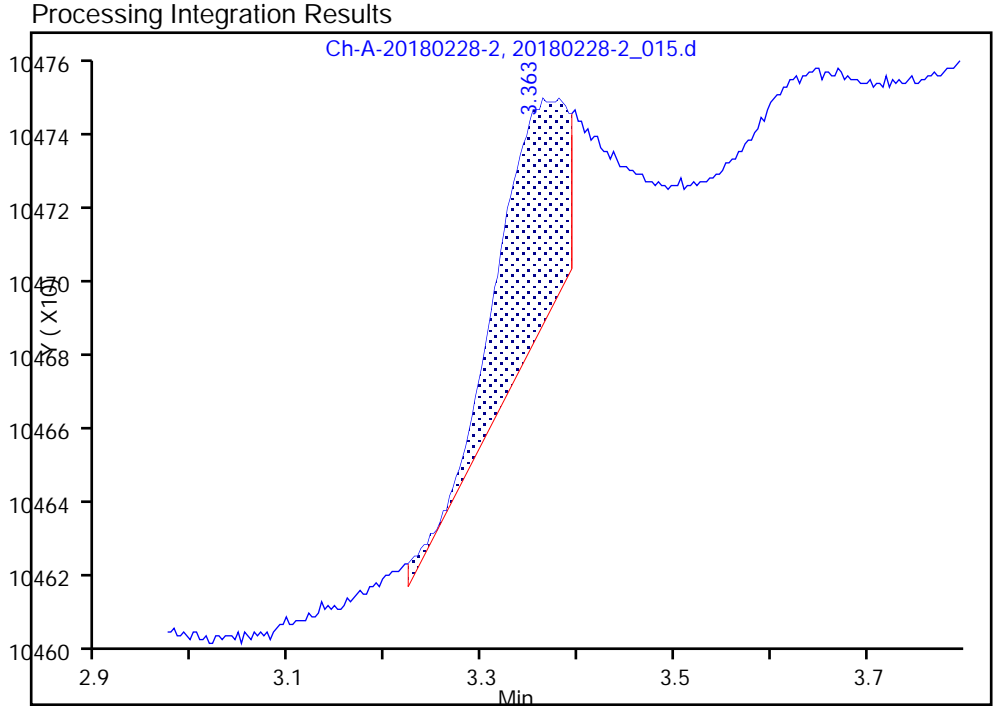
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_015.d
Injection Date: 28-Feb-2018 12:41:38 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

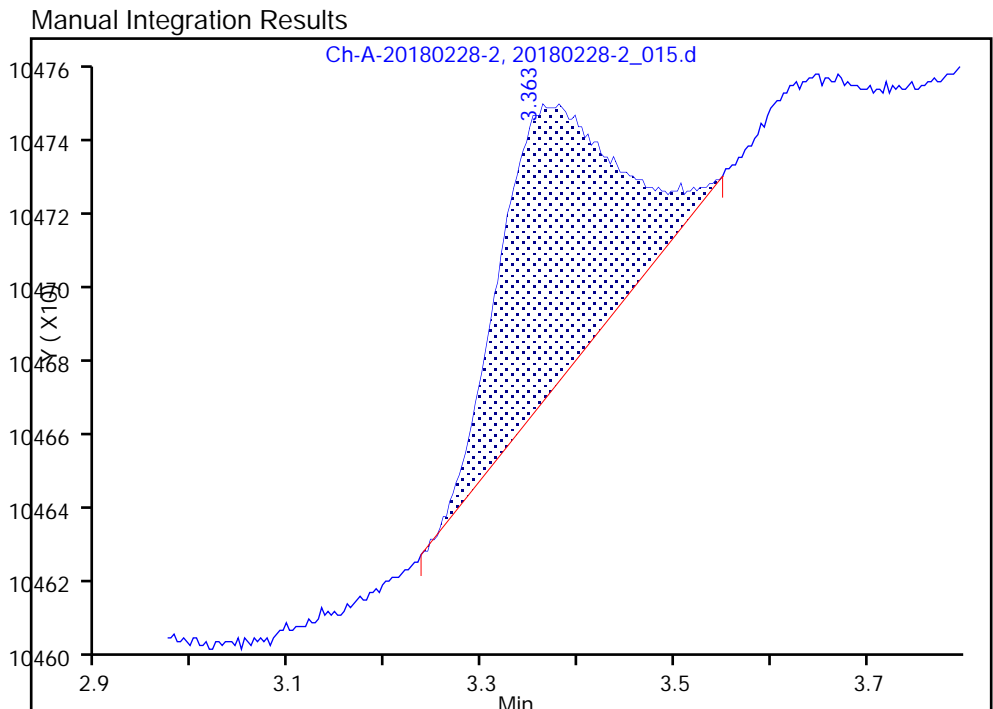
2 Chloride, CAS: 16887-00-6

Signal: 1

RT: 3.36
Area: 295
Amount: 0.007799
Amount Units: ng/uL



RT: 3.36
Area: 632
Amount: 0.016708
Amount Units: ng/uL



Reviewer: abramoc, 28-Feb-2018 17:04:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

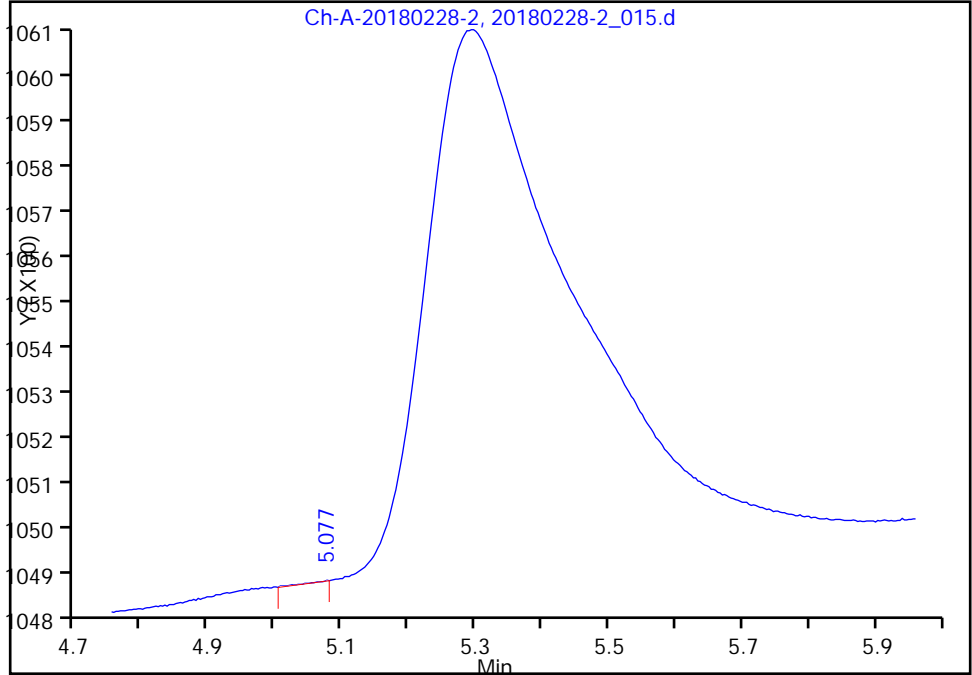
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180227-69540.b\20180228-2_015.d
Injection Date: 28-Feb-2018 12:41:38 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: tchrom ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

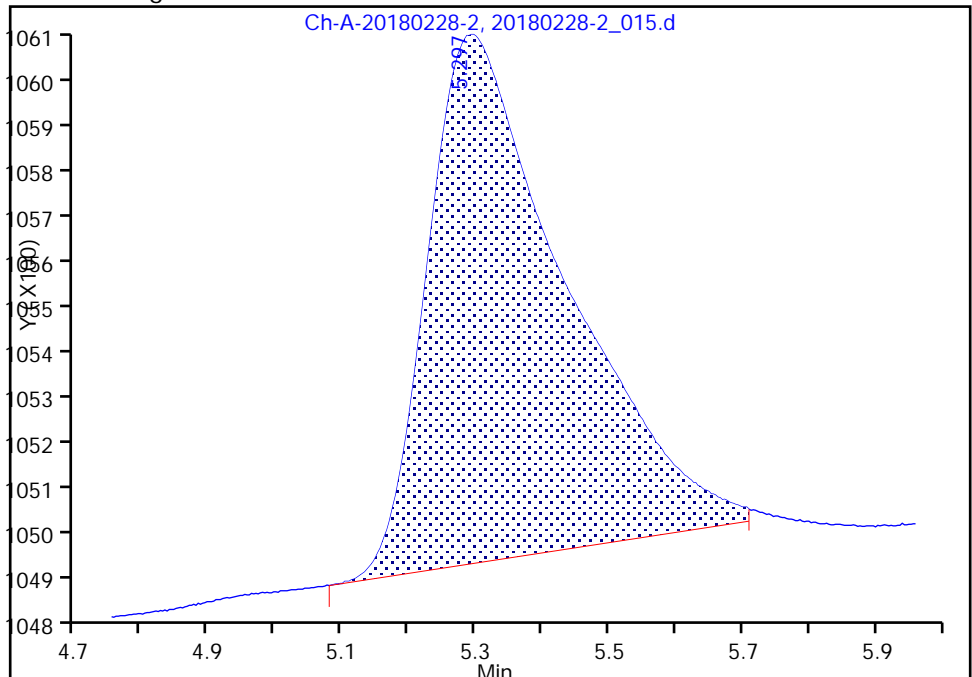
RT: 5.08
Area: 3
Amount: -0.806829
Amount Units: ng/uL

Processing Integration Results



RT: 5.30
Area: 14713
Amount: -0.330383
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 28-Feb-2018 17:04:48
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Laboratory Bench Sheet
FERROUS IRON
Genesys 2

TestAmerica - Buffalo

391182

Analyst: LED	Calibration Curve Information		
Start Date: 12/7/2017		Conc.(mg/L)	ABS.
Start Time: 19:40	STD1	0.000	0.000
End Time:	Std. 2	0.100	0.021
	Std. 3	0.500	0.084
DATE OF CURVE= 12/7/2017	Std. 4	1.000	0.150
	Std. 5	3.000	0.355

CURVE SOLUTION:
4412164

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9951
Slope:	0.11578
Intercept:	0.01549

PIPETTE M10824F/L12307D
 USED SQUARE CUVETTES

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	3188798
	EXP DEC-2020

EQL:	0.10	mg/L
ICV INFORMATION		
Solution #	4412163	
1.4038g of FAS (3305348) up to 1L made on 12-7-17		
Concentration (mg/L)	2.00	
ICV	True value:	2.00

LCS Information:		
Solution #	4412164	
1.4076g of FAS(3916794) up to 1L made on 12-7-17		
Concentration (mg/L):	2	
LCS	True value:	2.00

Matrix Spike information:		
Solution #	4412164	
1.4076g of FAS(3916794) up to 1L made on 12-		
Concentration (mg/L):	1	
MS	True Value	1.00

Job #	Sample ID	Sample	Sample	Blank	Corrected	D.F.	Curve Conc.	Final Conc.	% Rec.	Comments
		Volume	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		
		(mL)								
IC	0.0mg/L	25	0.000		0.000	1	ND	ND		
IC	0.1mg/L	25	0.017		0.017	1	0.0131	ND		.05mL → 100mL
IC	0.5mg/L	25	0.072		0.072	1	0.4881	0.488		.25mL → 100mL
IC	1.0mg/L	25	0.125		0.125	1	0.9459	0.946		.50mL → 100mL
IC	3.0mg/L	25	0.360		0.360	1	2.9757	2.976		1.50mL → 100mL
ICV	2.0mg/L	25	0.247 *		0.247	1	1.9997	2.000		100% .250mL → 25mL
ICB	BLANK	25	0.000		0.000	1	ND	ND		10/12/17
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

ICV = 100%
 101.5%
 12/7/17

12/11/17

Laboratory Bench Sheet
FERROUS IRON
Genesys 2

TestAmerica - Buffalo

402716

Analyst: LED	Calibration Curve Information		
Start Date: 3/6/2018		Conc.(mg/L)	ABS.
Start Time: 13:05	STD1	0.000	0.000
End Time:	Std. 2	0.100	0.017
	Std. 3	0.500	0.072
DATE OF CURVE= 12/7/2017	Std. 4	1.000	0.125
	Std. 5	3.000	0.380

CURVE SOLUTION:
4412164

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9995
Slope:	0.11855
Intercept:	0.00573

PIPETTE		
USED SQUARE CUVETTES		
EQL:	0.10	mg/L
ICV INFORMATION		
Solution #		
Concentration (mg/L)	2.00	
ICV	True value:	2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	3188797

LCS Information:			
Solution #	4440240		
1.4081 of FAS made on 12-27-17			
Concentration (mg/L):	2		
LCS	True value:	2.00	

Matrix Spike Information:		
Solution #	4440240	
1.4075 of FAS made on 12-27-1		
MS	True Value	1.00

Job #	Sample ID	Sample	Sample	Blank	Corrected	D.F.	Curve Conc.	Final Conc.	% Rec.	Comments
		Volume	ABS.	ABS.	ABS.		(mg/L)	(mg/L)		
		(mL)								
CCV	2 PPM	25	0.219		0.219	1	1.7990	1.799		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
MB	BLANK	25	0.000		0.000	1	ND	ND		
LCS	2 PPM	25	0.219		0.219	1	1.7990	1.799	90%	
1371737	B-1	25	0.018	0.017	0.001	1	-0.0399	ND		
1371737	C-2	25	0.056	0.054	0.002	1	-0.0315	ND		
1371737	B-3	25	0.016	0.015	0.001	1	-0.0399	ND		
1371737	D-4	25	0.048	0.042	0.004	1	-0.0146	ND		
1371737	D-5	25	0.034	0.027	0.007	1	0.0107	ND		
1371737	B-6	25	0.017	0.015	0.002	1	-0.0315	ND		
1371737	C-8	25	0.023	0.020	0.003	1	-0.0231	ND		
1371737	C-8 DU	25	0.023	0.020	0.003	1	-0.0231	ND		
CCV	CCV	25	0.230		0.230	1	1.8917	1.892		
CCB	BLANK	25	0.000		0.000	1	ND	ND		
1371737	C-8MS	25	0.118	0.020	0.098	1	0.7783	0.778		
CCV	CCV	25	0.235		0.235	1	1.9339	1.934		
CCB	CCB	25	0.000		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401337 Batch Start Date: 02/23/18 17:48 Batch Analyst: Bond, Diana C

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-131737-B-2	ML-2I	353.2	T	5 mL	5 mL				
480-131737-B-3	ML-2D	353.2	T	5 mL	5 mL				
480-131737-B-1	ML-2S	353.2	T	5 mL	5 mL				
480-131737-B-4	ML-7I	353.2	T	5 mL	5 mL				
480-131737-B-5	ML-7D	353.2	T	5 mL	5 mL				
480-131737-B-6	LBA-SBW-15	353.2	T	5 mL	5 mL				
480-131737-B-8	LBA-SBW-16	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401560 Batch Start Date: 02/26/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 4500 S2 F Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount
CCV 480-401560/1		SM 4500 S2 F		0 mL	2.5 mL	5 mL	2.5 mL	100 mL	100 mL
CCB 480-401560/2		SM 4500 S2 F		2.5 mL	3.5 mL	1 mL	1 mL	100 mL	100 mL
MB 480-401560/3		SM 4500 S2 F		3.5 mL	4.5 mL	1 mL	1 mL	100 mL	100 mL
LCS 480-401560/4		SM 4500 S2 F		4.5 mL	7.2 mL	5 mL	2.7 mL	100 mL	100 mL
480-131737-A-1	ML-2S	SM 4500 S2 F	T	10.2 mL	11.2 mL	1 mL	1 mL	100 mL	100 mL
480-131737-A-1 MS	ML-2S	SM 4500 S2 F	T	11.2 mL	12.5 mL	2 mL	1.3 mL	100 mL	100 mL
480-131737-A-2	ML-2I	SM 4500 S2 F	T	12.5 mL	13.5 mL	1 mL	1 mL	100 mL	100 mL
480-131737-A-3	ML-2D	SM 4500 S2 F	T	13.5 mL	14.5 mL	1 mL	1 mL	100 mL	100 mL
480-131737-A-4	ML-7I	SM 4500 S2 F	T	14.5 mL	15.5 mL	1 mL	1 mL	100 mL	100 mL
CCV 480-401560/13		SM 4500 S2 F		15.5 mL	18.1 mL	5 mL	2.6 mL	100 mL	100 mL
CCB 480-401560/14		SM 4500 S2 F		18.1 mL	19.1 mL	1 mL	1 mL	100 mL	100 mL
480-131737-A-5	ML-7D	SM 4500 S2 F	T	19.1 mL	20.1 mL	1 mL	1 mL	100 mL	100 mL
480-131737-A-6	LBA-SBW-15	SM 4500 S2 F	T	20.1 mL	20.6 mL	1 mL	0.5 mL	100 mL	100 mL
480-131737-A-6 DU	LBA-SBW-15	SM 4500 S2 F	T	20.6 mL	21.0 mL	1 mL	0.399999999999999 99 mL	100 mL	100 mL
480-131737-A-8	LBA-SBW-16	SM 4500 S2 F	T	21.0 mL	21.9 mL	1 mL	0.899999999999999 99 mL	100 mL	100 mL
CCV 480-401560/19		SM 4500 S2 F		21.9 mL	24.6 mL	5 mL	2.7 mL	100 mL	100 mL
CCB 480-401560/20		SM 4500 S2 F		24.6 mL	25.6 mL	1 mL	1 mL	100 mL	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00194	Sulfide LCS 00195				
CCV 480-401560/1		SM 4500 S2 F		1 mL					
CCB 480-401560/2		SM 4500 S2 F							
MB 480-401560/3		SM 4500 S2 F							
LCS 480-401560/4		SM 4500 S2 F			1 mL				
480-131737-A-1	ML-2S	SM 4500 S2 F	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401560 Batch Start Date: 02/26/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 4500 S2 F Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00194	Sulfide LCS 00195				
480-131737-A-1 MS	ML-2S	SM 4500 S2 F	T	0.25 mL					
480-131737-A-2	ML-2I	SM 4500 S2 F	T						
480-131737-A-3	ML-2D	SM 4500 S2 F	T						
480-131737-A-4	ML-7I	SM 4500 S2 F	T						
CCV 480-401560/13		SM 4500 S2 F		1 mL					
CCB 480-401560/14		SM 4500 S2 F							
480-131737-A-5	ML-7D	SM 4500 S2 F	T						
480-131737-A-6	LBA-SBW-15	SM 4500 S2 F	T						
480-131737-A-6 DU	LBA-SBW-15	SM 4500 S2 F	T						
480-131737-A-8	LBA-SBW-16	SM 4500 S2 F	T						
CCV 480-401560/19		SM 4500 S2 F		1 mL					
CCB 480-401560/20		SM 4500 S2 F							

Batch Notes	
Normality of Iodine Solution	0.025 N
Nominal Amount Used	100 mL
Normality of First Titrant	0.025 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 400725 Batch Start Date: 02/20/18 17:10 Batch Analyst: Abramo, Charles L

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_ANION_STD 00032			
IC 480-400725/2		9056A		5 mL	1.0 mL	2.5 uL			
IC 480-400725/3		9056A		5 mL	1.0 mL	10 uL			
IC 480-400725/4		9056A		5 mL	1.0 mL	25 uL			
IC 480-400725/5		9056A		5 mL	1.0 mL	100 uL			
IC 480-400725/6		9056A		5 mL	1.0 mL	250 uL			
IC 480-400725/7		9056A		5 mL	1.0 mL	500 uL			

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	9849824

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401728 Batch Start Date: 02/27/18 18:43 Batch Analyst: Schick, Robert J

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION LCS_ 0019I	IC_ANION STD 00032			
CCV 480-401728/25		9056A		5 mL	5 mL				
CCB 480-401728/26		9056A		5 mL					
LCS 480-401728/27		9056A		5 mL	5 mL				
MB 480-401728/28		9056A		5 mL					
CCV 480-401728/37		9056A		5 mL	5 mL				
CCB 480-401728/38		9056A		5 mL					
480-131737-E-1	ML-2S	9056A	T	5 mL					
480-131737-E-2	ML-2I	9056A	T	5 mL					
480-131737-E-3	ML-2D	9056A	T	5 mL					
480-131737-E-3 MS	ML-2D	9056A	T	5 mL		250 uL			
CCV 480-401728/49		9056A		5 mL	5 mL				
CCB 480-401728/50		9056A		5 mL					

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	10242061

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 401749 Batch Start Date: 02/28/18 10:55 Batch Analyst: Schick, Robert J

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION LCS_0019I				
CCV 480-401749/2		9056A		5 mL	5000 uL				
CCB 480-401749/3		9056A		5 mL					
LCS 480-401749/4		9056A		5 mL	5000 uL				
MB 480-401749/5		9056A		5 mL					
480-131737-E-4	ML-7I	9056A	T	5 mL					
480-131737-E-5	ML-7D	9056A	T	5 mL					
480-131737-E-6	LBA-SBW-15	9056A	T	5 mL					
480-131737-E-8	LBA-SBW-16	9056A	T	5 mL					
CCV 480-401749/14		9056A		5 mL	5000 uL				
CCB 480-401749/15		9056A		5 mL					

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	10242061

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 391182 Batch Start Date: 12/07/17 19:40 Batch Analyst: Foster, Michelle R

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm ICV 00006	
IC 480-391182/1		SM 3500 FE D		100 mL	100 mL	0.000 Absorbance	OK w/o Correction		
IC 480-391182/2		SM 3500 FE D		100 mL	100 mL	0.017 Absorbance	OK w/o Correction	0.05 mL	
IC 480-391182/3		SM 3500 FE D		100 mL	100 mL	0.072 Absorbance	OK w/o Correction	0.25 mL	
IC 480-391182/4		SM 3500 FE D		100 mL	100 mL	0.125 Absorbance	OK w/o Correction	0.5 mL	
IC 480-391182/5		SM 3500 FE D		100 mL	100 mL	0.360 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Batch Number: 402716 Batch Start Date: 03/06/18 13:05 Batch Analyst: Dobe, Laura E

Batch Method: SM 3500 FE D Batch End Date: 03/06/18 13:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00007
CCV 480-402716/1		SM 3500 FE D		25 mL	25 mL		.219 Absorbance	OK w/o Correction	0.25 mL
CCB 480-402716/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-402716/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-402716/4		SM 3500 FE D		25 mL	25 mL		.219 Absorbance	OK w/o Correction	0.25 mL
480-131737-B-1	ML-2S	SM 3500 FE D	T	25 mL	25 mL	.017 Absorbance	.018 Absorbance	OK	
480-131737-C-2	ML-2I	SM 3500 FE D	T	25 mL	25 mL	.054 Absorbance	.056 Absorbance	OK	
480-131737-C-3	ML-2D	SM 3500 FE D	T	25 mL	25 mL	.015 Absorbance	.016 Absorbance	OK	
480-131737-D-4	ML-7I	SM 3500 FE D	T	25 mL	25 mL	.042 Absorbance	.046 Absorbance	OK	
480-131737-D-5	ML-7D	SM 3500 FE D	T	25 mL	25 mL	.027 Absorbance	.034 Absorbance	OK	
480-131737-B-6	LBA-SBW-15	SM 3500 FE D	T	25 mL	25 mL	.015 Absorbance	.017 Absorbance	OK	
480-131737-C-8	LBA-SBW-16	SM 3500 FE D	T	25 mL	25 mL	.02 Absorbance	.023 Absorbance	OK	
480-131737-C-8 DU	LBA-SBW-16	SM 3500 FE D	T	25 mL	25 mL	.02 Absorbance	.023 Absorbance	OK	
CCV 480-402716/13		SM 3500 FE D		25 mL	25 mL		.230 Absorbance	OK w/o Correction	0.25 mL
CCB 480-402716/14		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
480-131737-C-8 MS	LBA-SBW-16	SM 3500 FE D	T	25 mL	25 mL	.02 Absorbance	.118 Absorbance	OK	0.125 mL
CCV 480-402716/16		SM 3500 FE D		25 mL	25 mL		.235 Absorbance	OK w/o Correction	0.25 mL
CCB 480-402716/17		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record



480-131737 COC

Client Information Client Contact: Allan Engelbert Phone: [Redacted] E-Mail: melissa.deyo@testamericainc.com Lab PM: Deyo, Melissa L. Camer Tracking No(s): 480-108988-25355		COC No: 480-108988-25355 Page: Page 1 of 2 Job #:	
Due Date Requested: TAT Requested (days): Standard		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 9056A_28D - Chloride & Sulfate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 353.2_353.2 Nitrite, Nitrate, Calc <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No RSK_175 - Ethane & Ethene <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No SMA500_52_F - Sulfide <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 3500_FE_D - Ferrous Iron <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8260C - TCL VOCs + TICs <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Address: 300 State Street Suite 201 City: Rochester State, Zip: NY, 14614 PO #: 210173 WO #: [Redacted] Email: aengelbert@labellapc.com / aequilina@labellapc.com Project Name: Former Emerson Street Landfill Project SSON#: 48016058		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDTA Other:	
Sample Identification Sample Date: 2/21/18 Sample Time: 1305 Sample Type: G (grab) Matrix: Water Preservation Code:		Total Number of Containers: 11 Special Instructions/Note:	
ML-2S ML-2I ML-2D ML-7I ML-7D LBA-SBW-15 LBA-SBW-15 MG LBA-SBW-15 MSD LBA-SBW-16 DUPE		11 11 11 11 11 11 3 3 3 11	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify) ASP Cat. B			
Empty Kit Relinquished by: [Redacted] Date: 2/22/18 - 1230			
Relinquished by: [Redacted] Date/Time: 2/22/18 - 1230 Relinquished by: [Redacted] Date/Time: [Redacted] Relinquished by: [Redacted] Date/Time: [Redacted]			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: Trip Temp blank in cooler			
Received by: Felix Date/Time: [Redacted] Received by: Walter Date/Time: 2/23/18 1030 AM Received by: [Redacted] Date/Time: [Redacted]			
Cooler Temperature(s) °C and Other Remarks: # 4.5			

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-131737-1

Login Number: 131737
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

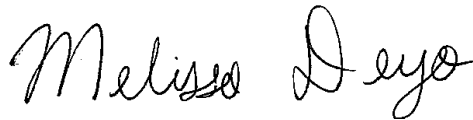
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-137434-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
6/25/2018 1:50 PM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
06/25/2018

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TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-137434-1

Receipt

The samples were received on 6/14/2018 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: LAB-SBW15 (480-137434-1), LAB-SBW16 (480-137434-2), LAB-SBW16 (480-137434-2[MS]), LAB-SBW16 (480-137434-2[MSD]) and DUPE (480-137434-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: LAB-SBW16 (480-137434-2), LAB-SBW16 (480-137434-2[MS]), LAB-SBW16 (480-137434-2[MSD]) and DUPE (480-137434-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: LAB-SBW15 (480-137434-1) and LAB-SBW16 (480-137434-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) RSK-175: The following sample was diluted due to the nature of the sample matrix: LAB-SBW15 (480-137434-1). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The following sample was diluted due to the abundance of non-target analytes: LAB-SBW16 (480-137434-2). Elevated reporting limits (RLs) are provided.

Method(s) RSK-175: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, due to the sample matrix the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: LAB-SBW16 (480-137434-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: LAB-SBW15 (480-137434-1) and LAB-SBW16 (480-137434-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137434-1	LAB-SBW15	Water	06/13/18 14:30	06/14/18 09:45
480-137434-2	LAB-SBW16	Water	06/13/18 10:15	06/14/18 09:45
480-137434-3	DUPE	Water	06/13/18 00:00	06/14/18 09:45

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: LAB-SBW15

Lab Sample ID: 480-137434-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	15		8.0	3.0	ug/L	8		8260C	Total/NA
Benzene	20		8.0	3.3	ug/L	8		8260C	Total/NA
Chloroethane	420		8.0	2.6	ug/L	8		8260C	Total/NA
Cyclohexane	1.6	J	8.0	1.4	ug/L	8		8260C	Total/NA
Methyl tert-butyl ether	9.4		8.0	1.3	ug/L	8		8260C	Total/NA
Methylcyclohexane	12		8.0	1.3	ug/L	8		8260C	Total/NA
Xylenes, Total	5.4	J	16	5.3	ug/L	8		8260C	Total/NA
Ethane	370		83	17	ug/L	11		RSK-175	Total/NA
Ethene	33	J	77	17	ug/L	11		RSK-175	Total/NA
Chloride	571		10.0	5.6	mg/L	20		9056A	Total/NA
Sulfate	33.1	J	40.0	7.0	mg/L	20		9056A	Total/NA
Ferrous Iron	0.080	J HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA
Sulfide	4.0		1.0	0.67	mg/L	1		SM 4500 S2 F	Total/NA

Client Sample ID: LAB-SBW16

Lab Sample ID: 480-137434-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	19		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	35		5.0	1.9	ug/L	5		8260C	Total/NA
Acetone	15	J	50	15	ug/L	5		8260C	Total/NA
Benzene	23		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	3.3	J	5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	140		5.0	4.1	ug/L	5		8260C	Total/NA
Ethylbenzene	12		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	35		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	55		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.3	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	10		5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride	84		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	160		10	3.3	ug/L	5		8260C	Total/NA
Ethane	110	J	170	33	ug/L	22		RSK-175	Total/NA
Chloride	363		10.0	5.6	mg/L	20		9056A	Total/NA
Ferrous Iron	0.086	J HF	0.10	0.075	mg/L	1		SM 3500 FE D	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 480-137434-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	19		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	34		5.0	1.9	ug/L	5		8260C	Total/NA
Acetone	21	J	50	15	ug/L	5		8260C	Total/NA
Benzene	23		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	3.9	J	5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	140		5.0	4.1	ug/L	5		8260C	Total/NA
Ethylbenzene	13		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	37		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	53		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.3	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	10		5.0	2.6	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: DUPE (Continued)

Lab Sample ID: 480-137434-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	83		5.0	4.5	ug/L	5		8260C	Total/NA
Xylenes, Total	160		10	3.3	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9056A	Anions, Ion Chromatography	SW846	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: LAB-SBW15

Lab Sample ID: 480-137434-1

Date Collected: 06/13/18 14:30

Matrix: Water

Date Received: 06/14/18 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			06/21/18 21:13	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			06/21/18 21:13	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			06/21/18 21:13	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5	ug/L			06/21/18 21:13	8
1,1-Dichloroethane	15		8.0	3.0	ug/L			06/21/18 21:13	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			06/21/18 21:13	8
1,2,4-Trichlorobenzene	ND		8.0	3.3	ug/L			06/21/18 21:13	8
1,2-Dibromo-3-Chloropropane	ND		8.0	3.1	ug/L			06/21/18 21:13	8
1,2-Dichlorobenzene	ND		8.0	6.3	ug/L			06/21/18 21:13	8
1,2-Dichloroethane	ND		8.0	1.7	ug/L			06/21/18 21:13	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			06/21/18 21:13	8
1,3-Dichlorobenzene	ND		8.0	6.2	ug/L			06/21/18 21:13	8
1,4-Dichlorobenzene	ND		8.0	6.7	ug/L			06/21/18 21:13	8
2-Butanone (MEK)	ND		80	11	ug/L			06/21/18 21:13	8
2-Hexanone	ND		40	9.9	ug/L			06/21/18 21:13	8
4-Methyl-2-pentanone (MIBK)	ND		40	17	ug/L			06/21/18 21:13	8
Acetone	ND		80	24	ug/L			06/21/18 21:13	8
Benzene	20		8.0	3.3	ug/L			06/21/18 21:13	8
Bromodichloromethane	ND		8.0	3.1	ug/L			06/21/18 21:13	8
Bromoform	ND		8.0	2.1	ug/L			06/21/18 21:13	8
Bromomethane	ND		8.0	5.5	ug/L			06/21/18 21:13	8
Carbon disulfide	ND		8.0	1.5	ug/L			06/21/18 21:13	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			06/21/18 21:13	8
Chlorobenzene	ND		8.0	6.0	ug/L			06/21/18 21:13	8
Dibromochloromethane	ND		8.0	2.6	ug/L			06/21/18 21:13	8
Chloroethane	420		8.0	2.6	ug/L			06/21/18 21:13	8
Chloroform	ND		8.0	2.7	ug/L			06/21/18 21:13	8
Chloromethane	ND		8.0	2.8	ug/L			06/21/18 21:13	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			06/21/18 21:13	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			06/21/18 21:13	8
Cyclohexane	1.6	J	8.0	1.4	ug/L			06/21/18 21:13	8
Dichlorodifluoromethane	ND		8.0	5.4	ug/L			06/21/18 21:13	8
Ethylbenzene	ND		8.0	5.9	ug/L			06/21/18 21:13	8
1,2-Dibromoethane	ND		8.0	5.8	ug/L			06/21/18 21:13	8
Isopropylbenzene	ND		8.0	6.3	ug/L			06/21/18 21:13	8
Methyl acetate	ND		20	10	ug/L			06/21/18 21:13	8
Methyl tert-butyl ether	9.4		8.0	1.3	ug/L			06/21/18 21:13	8
Methylcyclohexane	12		8.0	1.3	ug/L			06/21/18 21:13	8
Methylene Chloride	ND		8.0	3.5	ug/L			06/21/18 21:13	8
Styrene	ND		8.0	5.8	ug/L			06/21/18 21:13	8
Tetrachloroethene	ND		8.0	2.9	ug/L			06/21/18 21:13	8
Toluene	ND		8.0	4.1	ug/L			06/21/18 21:13	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			06/21/18 21:13	8
trans-1,3-Dichloropropene	ND		8.0	3.0	ug/L			06/21/18 21:13	8
Trichloroethene	ND		8.0	3.7	ug/L			06/21/18 21:13	8
Trichlorofluoromethane	ND		8.0	7.0	ug/L			06/21/18 21:13	8
Vinyl chloride	ND		8.0	7.2	ug/L			06/21/18 21:13	8
Xylenes, Total	5.4	J	16	5.3	ug/L			06/21/18 21:13	8

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: LAB-SBW15

Lab Sample ID: 480-137434-1

Date Collected: 06/13/18 14:30

Matrix: Water

Date Received: 06/14/18 09:45

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/21/18 21:13	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		06/21/18 21:13	8
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		06/21/18 21:13	8
4-Bromofluorobenzene (Surr)	102		73 - 120		06/21/18 21:13	8
Dibromofluoromethane (Surr)	100		75 - 123		06/21/18 21:13	8

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	370		83	17	ug/L			06/19/18 13:56	11
Ethene	33	J	77	17	ug/L			06/19/18 13:56	11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.050	0.020	mg/L as N			06/15/18 09:41	1
Nitrite	ND		0.050	0.020	mg/L as N			06/15/18 09:41	1
Chloride	571		10.0	5.6	mg/L			06/20/18 03:21	20
Sulfate	33.1	J	40.0	7.0	mg/L			06/20/18 03:21	20
Ferrous Iron	0.080	J HF	0.10	0.075	mg/L			06/18/18 13:00	1
Sulfide	4.0		1.0	0.67	mg/L			06/20/18 10:40	1

Client Sample ID: LAB-SBW16

Lab Sample ID: 480-137434-2

Date Collected: 06/13/18 10:15

Matrix: Water

Date Received: 06/14/18 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	19		5.0	4.1	ug/L			06/21/18 21:36	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/21/18 21:36	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/21/18 21:36	5
1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	1.6	ug/L			06/21/18 21:36	5
1,1-Dichloroethane	35		5.0	1.9	ug/L			06/21/18 21:36	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/21/18 21:36	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/21/18 21:36	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/21/18 21:36	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/21/18 21:36	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/21/18 21:36	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/21/18 21:36	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/21/18 21:36	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/21/18 21:36	5
2-Butanone (MEK)	ND		50	6.6	ug/L			06/21/18 21:36	5
2-Hexanone	ND		25	6.2	ug/L			06/21/18 21:36	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/21/18 21:36	5
Acetone	15	J	50	15	ug/L			06/21/18 21:36	5
Benzene	23		5.0	2.1	ug/L			06/21/18 21:36	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/21/18 21:36	5
Bromoform	ND		5.0	1.3	ug/L			06/21/18 21:36	5
Bromomethane	ND		5.0	3.5	ug/L			06/21/18 21:36	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/21/18 21:36	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: LAB-SBW16

Lab Sample ID: 480-137434-2

Date Collected: 06/13/18 10:15

Matrix: Water

Date Received: 06/14/18 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/21/18 21:36	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/21/18 21:36	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/21/18 21:36	5
Chloroethane	3.3	J	5.0	1.6	ug/L			06/21/18 21:36	5
Chloroform	ND		5.0	1.7	ug/L			06/21/18 21:36	5
Chloromethane	ND		5.0	1.8	ug/L			06/21/18 21:36	5
cis-1,2-Dichloroethene	140		5.0	4.1	ug/L			06/21/18 21:36	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/21/18 21:36	5
Cyclohexane	ND		5.0	0.90	ug/L			06/21/18 21:36	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/21/18 21:36	5
Ethylbenzene	12		5.0	3.7	ug/L			06/21/18 21:36	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/21/18 21:36	5
Isopropylbenzene	35		5.0	4.0	ug/L			06/21/18 21:36	5
Methyl acetate	ND		13	6.5	ug/L			06/21/18 21:36	5
Methyl tert-butyl ether	55		5.0	0.80	ug/L			06/21/18 21:36	5
Methylcyclohexane	1.3	J	5.0	0.80	ug/L			06/21/18 21:36	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/21/18 21:36	5
Styrene	ND		5.0	3.7	ug/L			06/21/18 21:36	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/21/18 21:36	5
Toluene	10		5.0	2.6	ug/L			06/21/18 21:36	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/21/18 21:36	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/21/18 21:36	5
Trichloroethene	ND		5.0	2.3	ug/L			06/21/18 21:36	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/21/18 21:36	5
Vinyl chloride	84		5.0	4.5	ug/L			06/21/18 21:36	5
Xylenes, Total	160		10	3.3	ug/L			06/21/18 21:36	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	16	T J	ug/L		9.27			06/21/18 21:36	5
Benzene, 1-ethyl-3-methyl-	15	T J N	ug/L		10.16	620-14-4		06/21/18 21:36	5
Benzene, 1,3,5-trimethyl-	70	T J N	ug/L		10.53	108-67-8		06/21/18 21:36	5
Benzene, 1,2,3-trimethyl-	47	T J N	ug/L		10.94	526-73-8		06/21/18 21:36	5
Unknown	15	T J	ug/L		11.13			06/21/18 21:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		06/21/18 21:36	5
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/21/18 21:36	5
4-Bromofluorobenzene (Surr)	102		73 - 120		06/21/18 21:36	5
Dibromofluoromethane (Surr)	100		75 - 123		06/21/18 21:36	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	110	J	170	33	ug/L			06/19/18 11:54	22
Ethene	ND		150	33	ug/L			06/19/18 11:54	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.050	0.020	mg/L as N			06/15/18 09:42	1
Nitrite	ND		0.050	0.020	mg/L as N			06/15/18 09:42	1
Chloride	363		10.0	5.6	mg/L			06/20/18 04:34	20

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: LAB-SBW16

Lab Sample ID: 480-137434-2

Date Collected: 06/13/18 10:15

Matrix: Water

Date Received: 06/14/18 09:45

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		40.0	7.0	mg/L			06/20/18 04:34	20
Ferrous Iron	0.086	J HF	0.10	0.075	mg/L			06/18/18 13:00	1
Sulfide	ND		1.0	0.67	mg/L			06/20/18 10:40	1

Client Sample ID: DUPE

Lab Sample ID: 480-137434-3

Date Collected: 06/13/18 00:00

Matrix: Water

Date Received: 06/14/18 09:45

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	19		5.0	4.1	ug/L			06/21/18 21:59	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/21/18 21:59	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/21/18 21:59	5
1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	1.6	ug/L			06/21/18 21:59	5
1,1-Dichloroethane	34		5.0	1.9	ug/L			06/21/18 21:59	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/21/18 21:59	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/21/18 21:59	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/21/18 21:59	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/21/18 21:59	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/21/18 21:59	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/21/18 21:59	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/21/18 21:59	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/21/18 21:59	5
2-Butanone (MEK)	ND		50	6.6	ug/L			06/21/18 21:59	5
2-Hexanone	ND		25	6.2	ug/L			06/21/18 21:59	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/21/18 21:59	5
Acetone	21	J	50	15	ug/L			06/21/18 21:59	5
Benzene	23		5.0	2.1	ug/L			06/21/18 21:59	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/21/18 21:59	5
Bromoform	ND		5.0	1.3	ug/L			06/21/18 21:59	5
Bromomethane	ND		5.0	3.5	ug/L			06/21/18 21:59	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/21/18 21:59	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/21/18 21:59	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/21/18 21:59	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/21/18 21:59	5
Chloroethane	3.9	J	5.0	1.6	ug/L			06/21/18 21:59	5
Chloroform	ND		5.0	1.7	ug/L			06/21/18 21:59	5
Chloromethane	ND		5.0	1.8	ug/L			06/21/18 21:59	5
cis-1,2-Dichloroethene	140		5.0	4.1	ug/L			06/21/18 21:59	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/21/18 21:59	5
Cyclohexane	ND		5.0	0.90	ug/L			06/21/18 21:59	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/21/18 21:59	5
Ethylbenzene	13		5.0	3.7	ug/L			06/21/18 21:59	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/21/18 21:59	5
Isopropylbenzene	37		5.0	4.0	ug/L			06/21/18 21:59	5
Methyl acetate	ND		13	6.5	ug/L			06/21/18 21:59	5
Methyl tert-butyl ether	53		5.0	0.80	ug/L			06/21/18 21:59	5
Methylcyclohexane	1.3	J	5.0	0.80	ug/L			06/21/18 21:59	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/21/18 21:59	5

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: DUPE
Date Collected: 06/13/18 00:00
Date Received: 06/14/18 09:45

Lab Sample ID: 480-137434-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	3.7	ug/L			06/21/18 21:59	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/21/18 21:59	5
Toluene	10		5.0	2.6	ug/L			06/21/18 21:59	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/21/18 21:59	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/21/18 21:59	5
Trichloroethene	ND		5.0	2.3	ug/L			06/21/18 21:59	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/21/18 21:59	5
Vinyl chloride	83		5.0	4.5	ug/L			06/21/18 21:59	5
Xylenes, Total	160		10	3.3	ug/L			06/21/18 21:59	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	15	T J	ug/L		9.27			06/21/18 21:59	5
Benzene, 1,2,3-trimethyl-	15	T J N	ug/L		10.16	526-73-8		06/21/18 21:59	5
Benzene, 1,3,5-trimethyl-	69	T J N	ug/L		10.53	108-67-8		06/21/18 21:59	5
Benzene, 1,2,4-trimethyl-	46	T J N	ug/L		10.94	95-63-6		06/21/18 21:59	5
Unknown	15	T J	ug/L		11.13			06/21/18 21:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		06/21/18 21:59	5
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		06/21/18 21:59	5
4-Bromofluorobenzene (Surr)	99		73 - 120		06/21/18 21:59	5
Dibromofluoromethane (Surr)	98		75 - 123		06/21/18 21:59	5

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-137434-1	LAB-SBW15	100	96	102	100
480-137434-2	LAB-SBW16	100	100	102	100
480-137434-2 MS	LAB-SBW16	102	101	101	98
480-137434-2 MSD	LAB-SBW16	100	95	102	96
480-137434-3	DUPE	101	99	99	98
LCS 480-420936/9	Lab Control Sample	103	99	105	106
MB 480-420936/11	Method Blank	100	103	97	101

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-420936/11

Matrix: Water

Analysis Batch: 420936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/21/18 20:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/21/18 20:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/21/18 20:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/21/18 20:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/21/18 20:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/21/18 20:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/21/18 20:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/21/18 20:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/21/18 20:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/21/18 20:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/21/18 20:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/21/18 20:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/21/18 20:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/21/18 20:39	1
2-Hexanone	ND		5.0	1.2	ug/L			06/21/18 20:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/21/18 20:39	1
Acetone	ND		10	3.0	ug/L			06/21/18 20:39	1
Benzene	ND		1.0	0.41	ug/L			06/21/18 20:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/21/18 20:39	1
Bromoform	ND		1.0	0.26	ug/L			06/21/18 20:39	1
Bromomethane	ND		1.0	0.69	ug/L			06/21/18 20:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/21/18 20:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/21/18 20:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/21/18 20:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/21/18 20:39	1
Chloroethane	ND		1.0	0.32	ug/L			06/21/18 20:39	1
Chloroform	ND		1.0	0.34	ug/L			06/21/18 20:39	1
Chloromethane	ND		1.0	0.35	ug/L			06/21/18 20:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/21/18 20:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/21/18 20:39	1
Cyclohexane	ND		1.0	0.18	ug/L			06/21/18 20:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/21/18 20:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/21/18 20:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/21/18 20:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/21/18 20:39	1
Methyl acetate	ND		2.5	1.3	ug/L			06/21/18 20:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/21/18 20:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/21/18 20:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/21/18 20:39	1
Styrene	ND		1.0	0.73	ug/L			06/21/18 20:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/21/18 20:39	1
Toluene	ND		1.0	0.51	ug/L			06/21/18 20:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/21/18 20:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/21/18 20:39	1
Trichloroethene	ND		1.0	0.46	ug/L			06/21/18 20:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/21/18 20:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/21/18 20:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/21/18 20:39	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>06/21/18 20:39</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>100</i>		<i>80 - 120</i>		<i>06/21/18 20:39</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>103</i>		<i>77 - 120</i>		<i>06/21/18 20:39</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>97</i>		<i>73 - 120</i>		<i>06/21/18 20:39</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>101</i>		<i>75 - 123</i>		<i>06/21/18 20:39</i>	<i>1</i>

Lab Sample ID: LCS 480-420936/9
Matrix: Water
Analysis Batch: 420936

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.9		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	76 - 120
1,1,2-Trichloroethane	25.0	27.7		ug/L		111	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3		ug/L		105	61 - 148
1,1-Dichloroethane	25.0	27.0		ug/L		108	77 - 120
1,1-Dichloroethene	25.0	26.5		ug/L		106	66 - 127
1,2,4-Trichlorobenzene	25.0	27.4		ug/L		110	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	27.6		ug/L		110	56 - 134
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	25.7		ug/L		103	75 - 120
1,2-Dichloropropane	25.0	26.1		ug/L		105	76 - 120
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	26.6		ug/L		106	80 - 120
2-Butanone (MEK)	125	129		ug/L		103	57 - 140
2-Hexanone	125	124		ug/L		99	65 - 127
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	71 - 125
Acetone	125	119		ug/L		96	56 - 142
Benzene	25.0	26.8		ug/L		107	71 - 124
Bromodichloromethane	25.0	29.0		ug/L		116	80 - 122
Bromoform	25.0	31.3		ug/L		125	61 - 132
Bromomethane	25.0	25.8		ug/L		103	55 - 144
Carbon disulfide	25.0	28.1		ug/L		113	59 - 134
Carbon tetrachloride	25.0	29.3		ug/L		117	72 - 134
Chlorobenzene	25.0	27.2		ug/L		109	80 - 120
Dibromochloromethane	25.0	29.9		ug/L		119	75 - 125
Chloroethane	25.0	26.6		ug/L		106	69 - 136
Chloroform	25.0	26.0		ug/L		104	73 - 127
Chloromethane	25.0	25.9		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	26.6		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	28.2		ug/L		113	74 - 124
Cyclohexane	25.0	29.1		ug/L		117	59 - 135
Dichlorodifluoromethane	25.0	30.6		ug/L		122	59 - 135
Ethylbenzene	25.0	27.9		ug/L		112	77 - 123
1,2-Dibromoethane	25.0	26.0		ug/L		104	77 - 120
Isopropylbenzene	25.0	27.8		ug/L		111	77 - 122
Methyl acetate	50.0	49.1		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	26.2		ug/L		105	77 - 120
Methylcyclohexane	25.0	29.0		ug/L		116	68 - 134
Methylene Chloride	25.0	25.2		ug/L		101	75 - 124

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-420936/9

Matrix: Water

Analysis Batch: 420936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	27.6		ug/L		110	80 - 120
Tetrachloroethene	25.0	27.9		ug/L		112	74 - 122
Toluene	25.0	27.2		ug/L		109	80 - 122
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	73 - 127
trans-1,3-Dichloropropene	25.0	29.9		ug/L		120	80 - 120
Trichloroethene	25.0	27.3		ug/L		109	74 - 123
Trichlorofluoromethane	25.0	31.5		ug/L		126	62 - 150
Vinyl chloride	25.0	28.8		ug/L		115	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: 480-137434-2 MS

Matrix: Water

Analysis Batch: 420936

Client Sample ID: LAB-SBW16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	19		125	159		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	ND		125	134		ug/L		107	76 - 120
1,1,2-Trichloroethane	ND		125	136		ug/L		109	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	16		125	146		ug/L		104	61 - 148
1,1-Dichloroethane	35		125	165		ug/L		104	77 - 120
1,1-Dichloroethene	ND		125	134		ug/L		107	66 - 127
1,2,4-Trichlorobenzene	ND		125	134		ug/L		107	79 - 122
1,2-Dibromo-3-Chloropropane	ND		125	133		ug/L		106	56 - 134
1,2-Dichlorobenzene	ND		125	128		ug/L		103	80 - 124
1,2-Dichloroethane	ND		125	128		ug/L		102	75 - 120
1,2-Dichloropropane	ND		125	125		ug/L		100	76 - 120
1,3-Dichlorobenzene	ND		125	130		ug/L		104	77 - 120
1,4-Dichlorobenzene	ND		125	132		ug/L		106	78 - 124
2-Butanone (MEK)	ND		625	646		ug/L		103	57 - 140
2-Hexanone	ND		625	642		ug/L		103	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		625	653		ug/L		104	71 - 125
Acetone	15 J		625	641		ug/L		103	56 - 142
Benzene	23		125	156		ug/L		106	71 - 124
Bromodichloromethane	ND		125	142		ug/L		113	80 - 122
Bromoform	ND		125	151		ug/L		120	61 - 132
Bromomethane	ND		125	126		ug/L		101	55 - 144
Carbon disulfide	ND		125	143		ug/L		115	59 - 134
Carbon tetrachloride	ND		125	145		ug/L		116	72 - 134
Chlorobenzene	ND		125	138		ug/L		110	80 - 120
Dibromochloromethane	ND		125	154		ug/L		123	75 - 125
Chloroethane	3.3 J		125	132		ug/L		103	69 - 136
Chloroform	ND		125	130		ug/L		104	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-137434-2 MS

Matrix: Water

Analysis Batch: 420936

Client Sample ID: LAB-SBW16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		125	127		ug/L		102	68 - 124
cis-1,2-Dichloroethene	140		125	254		ug/L		93	74 - 124
cis-1,3-Dichloropropene	ND		125	133		ug/L		106	74 - 124
Cyclohexane	ND		125	144		ug/L		115	59 - 135
Dichlorodifluoromethane	ND		125	153		ug/L		123	59 - 135
Ethylbenzene	12		125	151		ug/L		111	77 - 123
1,2-Dibromoethane	ND		125	135		ug/L		108	77 - 120
Isopropylbenzene	35		125	165		ug/L		104	77 - 122
Methyl acetate	ND		250	256		ug/L		102	74 - 133
Methyl tert-butyl ether	55		125	186		ug/L		105	77 - 120
Methylcyclohexane	1.3	J	125	150		ug/L		119	68 - 134
Methylene Chloride	ND		125	127		ug/L		101	75 - 124
Styrene	ND		125	142		ug/L		113	80 - 120
Tetrachloroethene	ND		125	142		ug/L		114	74 - 122
Toluene	10		125	147		ug/L		110	80 - 122
trans-1,2-Dichloroethene	ND		125	138		ug/L		111	73 - 127
trans-1,3-Dichloropropene	ND		125	142		ug/L		114	80 - 120
Trichloroethene	ND		125	135		ug/L		108	74 - 123
Trichlorofluoromethane	ND		125	124		ug/L		99	62 - 150
Vinyl chloride	84		125	223		ug/L		111	65 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Lab Sample ID: 480-137434-2 MSD

Matrix: Water

Analysis Batch: 420936

Client Sample ID: LAB-SBW16

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	19		125	156		ug/L		110	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		125	135		ug/L		108	76 - 120	1	15
1,1,2-Trichloroethane	ND		125	134		ug/L		107	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	16		125	137		ug/L		97	61 - 148	6	20
1,1-Dichloroethane	35		125	163		ug/L		102	77 - 120	1	20
1,1-Dichloroethene	ND		125	132		ug/L		105	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		125	136		ug/L		109	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		125	140		ug/L		112	56 - 134	6	15
1,2-Dichlorobenzene	ND		125	134		ug/L		107	80 - 124	4	20
1,2-Dichloroethane	ND		125	126		ug/L		101	75 - 120	1	20
1,2-Dichloropropane	ND		125	128		ug/L		102	76 - 120	2	20
1,3-Dichlorobenzene	ND		125	134		ug/L		107	77 - 120	3	20
1,4-Dichlorobenzene	ND		125	134		ug/L		107	78 - 124	1	20
2-Butanone (MEK)	ND		625	620		ug/L		99	57 - 140	4	20
2-Hexanone	ND		625	616		ug/L		99	65 - 127	4	15

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-137434-2 MSD

Matrix: Water

Analysis Batch: 420936

Client Sample ID: LAB-SBW16

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone (MIBK)	ND		625	639		ug/L		102	71 - 125	2	35
Acetone	15	J	625	622		ug/L		99	56 - 142	3	15
Benzene	23		125	153		ug/L		104	71 - 124	2	13
Bromodichloromethane	ND		125	138		ug/L		110	80 - 122	3	15
Bromoform	ND		125	150		ug/L		120	61 - 132	0	15
Bromomethane	ND		125	124		ug/L		100	55 - 144	2	15
Carbon disulfide	ND		125	143		ug/L		114	59 - 134	0	15
Carbon tetrachloride	ND		125	152		ug/L		122	72 - 134	5	15
Chlorobenzene	ND		125	137		ug/L		110	80 - 120	1	25
Dibromochloromethane	ND		125	150		ug/L		120	75 - 125	2	15
Chloroethane	3.3	J	125	133		ug/L		104	69 - 136	1	15
Chloroform	ND		125	128		ug/L		102	73 - 127	2	20
Chloromethane	ND		125	124		ug/L		99	68 - 124	3	15
cis-1,2-Dichloroethene	140		125	250		ug/L		90	74 - 124	2	15
cis-1,3-Dichloropropene	ND		125	129		ug/L		103	74 - 124	3	15
Cyclohexane	ND		125	145		ug/L		116	59 - 135	1	20
Dichlorodifluoromethane	ND		125	143		ug/L		114	59 - 135	7	20
Ethylbenzene	12		125	149		ug/L		109	77 - 123	1	15
1,2-Dibromoethane	ND		125	134		ug/L		107	77 - 120	1	15
Isopropylbenzene	35		125	173		ug/L		111	77 - 122	5	20
Methyl acetate	ND		250	245		ug/L		98	74 - 133	4	20
Methyl tert-butyl ether	55		125	174		ug/L		95	77 - 120	7	37
Methylcyclohexane	1.3	J	125	145		ug/L		115	68 - 134	4	20
Methylene Chloride	ND		125	125		ug/L		100	75 - 124	2	15
Styrene	ND		125	136		ug/L		109	80 - 120	4	20
Tetrachloroethene	ND		125	142		ug/L		113	74 - 122	0	20
Toluene	10		125	144		ug/L		107	80 - 122	2	15
trans-1,2-Dichloroethene	ND		125	137		ug/L		110	73 - 127	1	20
trans-1,3-Dichloropropene	ND		125	139		ug/L		111	80 - 120	2	15
Trichloroethene	ND		125	134		ug/L		107	74 - 123	1	16
Trichlorofluoromethane	ND		125	135		ug/L		108	62 - 150	8	20
Vinyl chloride	84		125	227		ug/L		114	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-420316/4

Matrix: Water

Analysis Batch: 420316

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			06/19/18 09:55	1
Ethene	ND		7.0	1.5	ug/L			06/19/18 09:55	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Lab Sample ID: LCS 480-420316/5
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	13.1		ug/L		90	79 - 120
Ethene	13.6	12.0		ug/L		88	85 - 120

Lab Sample ID: LCSD 480-420316/6
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.6	13.8		ug/L		95	79 - 120	6	50
Ethene	13.6	12.8		ug/L		94	85 - 120	6	50

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 480-420474/28
Matrix: Water
Analysis Batch: 420474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			06/20/18 01:53	1
Sulfate	ND		2.0	0.35	mg/L			06/20/18 01:53	1

Lab Sample ID: LCS 480-420474/27
Matrix: Water
Analysis Batch: 420474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	46.27		mg/L		93	90 - 110
Sulfate	50.0	45.93		mg/L		92	90 - 110

Lab Sample ID: 480-137434-1 MS
Matrix: Water
Analysis Batch: 420474

Client Sample ID: LAB-SBW15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	571		1000	1488		mg/L		92	81 - 120
Sulfate	33.1	J	1000	935.1		mg/L		90	80 - 120

Lab Sample ID: 480-137434-1 MSD
Matrix: Water
Analysis Batch: 420474

Client Sample ID: LAB-SBW15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	571		1000	1453		mg/L		88	81 - 120	2	20
Sulfate	33.1	J	1000	924.9		mg/L		89	80 - 120	1	20

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-420230/3
Matrix: Water
Analysis Batch: 420230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/18/18 13:00	1

Lab Sample ID: LCS 480-420230/4
Matrix: Water
Analysis Batch: 420230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.88		mg/L		94	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-420675/3
Matrix: Water
Analysis Batch: 420675

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/20/18 10:40	1

Lab Sample ID: LCS 480-420675/4
Matrix: Water
Analysis Batch: 420675

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.80	8.80		mg/L		100	90 - 110

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

GC/MS VOA

Analysis Batch: 420936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	8260C	
480-137434-2	LAB-SBW16	Total/NA	Water	8260C	
480-137434-3	DUPE	Total/NA	Water	8260C	
MB 480-420936/11	Method Blank	Total/NA	Water	8260C	
LCS 480-420936/9	Lab Control Sample	Total/NA	Water	8260C	
480-137434-2 MS	LAB-SBW16	Total/NA	Water	8260C	
480-137434-2 MSD	LAB-SBW16	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 420316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	RSK-175	
480-137434-2	LAB-SBW16	Total/NA	Water	RSK-175	
MB 480-420316/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-420316/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-420316/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 419834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	353.2	
480-137434-2	LAB-SBW16	Total/NA	Water	353.2	

Analysis Batch: 419836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	353.2	
480-137434-2	LAB-SBW16	Total/NA	Water	353.2	

Analysis Batch: 420230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	SM 3500 FE D	
480-137434-2	LAB-SBW16	Total/NA	Water	SM 3500 FE D	
MB 480-420230/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-420230/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 420474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	9056A	
480-137434-2	LAB-SBW16	Total/NA	Water	9056A	
MB 480-420474/28	Method Blank	Total/NA	Water	9056A	
LCS 480-420474/27	Lab Control Sample	Total/NA	Water	9056A	
480-137434-1 MS	LAB-SBW15	Total/NA	Water	9056A	
480-137434-1 MSD	LAB-SBW15	Total/NA	Water	9056A	

Analysis Batch: 420675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137434-1	LAB-SBW15	Total/NA	Water	SM 4500 S2 F	
480-137434-2	LAB-SBW16	Total/NA	Water	SM 4500 S2 F	

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

General Chemistry (Continued)

Analysis Batch: 420675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-420675/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-420675/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Client Sample ID: LAB-SBW15

Date Collected: 06/13/18 14:30

Date Received: 06/14/18 09:45

Lab Sample ID: 480-137434-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	420936	06/21/18 21:13	NMC	TAL BUF
Total/NA	Analysis	RSK-175		11	420316	06/19/18 13:56	DSC	TAL BUF
Total/NA	Analysis	353.2		1	419834	06/15/18 09:41	MRF	TAL BUF
Total/NA	Analysis	353.2		1	419836	06/15/18 09:41	MRF	TAL BUF
Total/NA	Analysis	9056A		20	420474	06/20/18 03:21	DMR	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	420230	06/18/18 13:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	420675	06/20/18 10:40	MJB	TAL BUF

Client Sample ID: LAB-SBW16

Date Collected: 06/13/18 10:15

Date Received: 06/14/18 09:45

Lab Sample ID: 480-137434-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	420936	06/21/18 21:36	NMC	TAL BUF
Total/NA	Analysis	RSK-175		22	420316	06/19/18 11:54	DSC	TAL BUF
Total/NA	Analysis	353.2		1	419834	06/15/18 09:42	MRF	TAL BUF
Total/NA	Analysis	353.2		1	419836	06/15/18 09:42	MRF	TAL BUF
Total/NA	Analysis	9056A		20	420474	06/20/18 04:34	DMR	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	420230	06/18/18 13:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	420675	06/20/18 10:40	MJB	TAL BUF

Client Sample ID: DUPE

Date Collected: 06/13/18 00:00

Date Received: 06/14/18 09:45

Lab Sample ID: 480-137434-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	420936	06/21/18 21:59	NMC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137434-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9056A		Water	Chloride
9056A		Water	Sulfate
SM 3500 FE D		Water	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
LAB-SBW15	480-137434-1	100	96	100	102
LAB-SBW16	480-137434-2	100	100	100	102
DUPE	480-137434-3	98	99	101	99
	MB 480-420936/11	101	103	100	97
	LCS 480-420936/9	106	99	103	105
LAB-SBW16 MS	480-137434-2 MS	98	101	102	101
LAB-SBW16 MSD	480-137434-2 MSD	96	95	100	102

DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
 75-123
 77-120
 80-120
 73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2561.D

Lab ID: LCS 480-420936/9 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.9	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.5	106	76-120	
1,1,2-Trichloroethane	25.0	27.7	111	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3	105	61-148	
1,1-Dichloroethane	25.0	27.0	108	77-120	
1,1-Dichloroethene	25.0	26.5	106	66-127	
1,2,4-Trichlorobenzene	25.0	27.4	110	79-122	
1,2-Dibromo-3-Chloropropane	25.0	27.6	110	56-134	
1,2-Dichlorobenzene	25.0	26.3	105	80-124	
1,2-Dichloroethane	25.0	25.7	103	75-120	
1,2-Dichloropropane	25.0	26.1	105	76-120	
1,3-Dichlorobenzene	25.0	26.2	105	77-120	
1,4-Dichlorobenzene	25.0	26.6	106	80-120	
2-Butanone (MEK)	125	129	103	57-140	
2-Hexanone	125	124	99	65-127	
4-Methyl-2-pentanone (MIBK)	125	124	99	71-125	
Acetone	125	119	96	56-142	
Benzene	25.0	26.8	107	71-124	
Bromodichloromethane	25.0	29.0	116	80-122	
Bromoform	25.0	31.3	125	61-132	
Bromomethane	25.0	25.8	103	55-144	
Carbon disulfide	25.0	28.1	113	59-134	
Carbon tetrachloride	25.0	29.3	117	72-134	
Chlorobenzene	25.0	27.2	109	80-120	
Dibromochloromethane	25.0	29.9	119	75-125	
Chloroethane	25.0	26.6	106	69-136	
Chloroform	25.0	26.0	104	73-127	
Chloromethane	25.0	25.9	104	68-124	
cis-1,2-Dichloroethene	25.0	26.6	107	74-124	
cis-1,3-Dichloropropene	25.0	28.2	113	74-124	
Cyclohexane	25.0	29.1	117	59-135	
Dichlorodifluoromethane	25.0	30.6	122	59-135	
Ethylbenzene	25.0	27.9	112	77-123	
1,2-Dibromoethane	25.0	26.0	104	77-120	
Isopropylbenzene	25.0	27.8	111	77-122	
Methyl acetate	50.0	49.1	98	74-133	
Methyl tert-butyl ether	25.0	26.2	105	77-120	
Methylcyclohexane	25.0	29.0	116	68-134	
Methylene Chloride	25.0	25.2	101	75-124	
Styrene	25.0	27.6	110	80-120	
Tetrachloroethene	25.0	27.9	112	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2561.D

Lab ID: LCS 480-420936/9 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	27.2	109	80-122	
trans-1,2-Dichloroethene	25.0	27.5	110	73-127	
trans-1,3-Dichloropropene	25.0	29.9	120	80-120	
Trichloroethene	25.0	27.3	109	74-123	
Trichlorofluoromethane	25.0	31.5	126	62-150	
Vinyl chloride	25.0	28.8	115	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S2582.D

Lab ID: 480-137434-2 MS

Client ID: LAB-SBW16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	19	159	112	73-126	
1,1,2,2-Tetrachloroethane	125	ND	134	107	76-120	
1,1,2-Trichloroethane	125	ND	136	109	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	16	146	104	61-148	
1,1-Dichloroethane	125	35	165	104	77-120	
1,1-Dichloroethene	125	ND	134	107	66-127	
1,2,4-Trichlorobenzene	125	ND	134	107	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	133	106	56-134	
1,2-Dichlorobenzene	125	ND	128	103	80-124	
1,2-Dichloroethane	125	ND	128	102	75-120	
1,2-Dichloropropane	125	ND	125	100	76-120	
1,3-Dichlorobenzene	125	ND	130	104	77-120	
1,4-Dichlorobenzene	125	ND	132	106	78-124	
2-Butanone (MEK)	625	ND	646	103	57-140	
2-Hexanone	625	ND	642	103	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	653	104	71-125	
Acetone	625	15 J	641	103	56-142	
Benzene	125	23	156	106	71-124	
Bromodichloromethane	125	ND	142	113	80-122	
Bromoform	125	ND	151	120	61-132	
Bromomethane	125	ND	126	101	55-144	
Carbon disulfide	125	ND	143	115	59-134	
Carbon tetrachloride	125	ND	145	116	72-134	
Chlorobenzene	125	ND	138	110	80-120	
Dibromochloromethane	125	ND	154	123	75-125	
Chloroethane	125	3.3 J	132	103	69-136	
Chloroform	125	ND	130	104	73-127	
Chloromethane	125	ND	127	102	68-124	
cis-1,2-Dichloroethene	125	140	254	93	74-124	
cis-1,3-Dichloropropene	125	ND	133	106	74-124	
Cyclohexane	125	ND	144	115	59-135	
Dichlorodifluoromethane	125	ND	153	123	59-135	
Ethylbenzene	125	12	151	111	77-123	
1,2-Dibromoethane	125	ND	135	108	77-120	
Isopropylbenzene	125	35	165	104	77-122	
Methyl acetate	250	ND	256	102	74-133	
Methyl tert-butyl ether	125	55	186	105	77-120	
Methylcyclohexane	125	1.3 J	150	119	68-134	
Methylene Chloride	125	ND	127	101	75-124	
Styrene	125	ND	142	113	80-120	
Tetrachloroethene	125	ND	142	114	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2582.D

Lab ID: 480-137434-2 MS Client ID: LAB-SBW16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	10	147	110	80-122	
trans-1,2-Dichloroethene	125	ND	138	111	73-127	
trans-1,3-Dichloropropene	125	ND	142	114	80-120	
Trichloroethene	125	ND	135	108	74-123	
Trichlorofluoromethane	125	ND	124	99	62-150	
Vinyl chloride	125	84	223	111	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S2583.D

Lab ID: 480-137434-2 MSD

Client ID: LAB-SBW16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	125	156	110	2	15	73-126	
1,1,2,2-Tetrachloroethane	125	135	108	1	15	76-120	
1,1,2-Trichloroethane	125	134	107	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	137	97	6	20	61-148	
1,1-Dichloroethane	125	163	102	1	20	77-120	
1,1-Dichloroethene	125	132	105	2	16	66-127	
1,2,4-Trichlorobenzene	125	136	109	2	20	79-122	
1,2-Dibromo-3-Chloropropane	125	140	112	6	15	56-134	
1,2-Dichlorobenzene	125	134	107	4	20	80-124	
1,2-Dichloroethane	125	126	101	1	20	75-120	
1,2-Dichloropropane	125	128	102	2	20	76-120	
1,3-Dichlorobenzene	125	134	107	3	20	77-120	
1,4-Dichlorobenzene	125	134	107	1	20	78-124	
2-Butanone (MEK)	625	620	99	4	20	57-140	
2-Hexanone	625	616	99	4	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	639	102	2	35	71-125	
Acetone	625	622	99	3	15	56-142	
Benzene	125	153	104	2	13	71-124	
Bromodichloromethane	125	138	110	3	15	80-122	
Bromoform	125	150	120	0	15	61-132	
Bromomethane	125	124	100	2	15	55-144	
Carbon disulfide	125	143	114	0	15	59-134	
Carbon tetrachloride	125	152	122	5	15	72-134	
Chlorobenzene	125	137	110	1	25	80-120	
Dibromochloromethane	125	150	120	2	15	75-125	
Chloroethane	125	133	104	1	15	69-136	
Chloroform	125	128	102	2	20	73-127	
Chloromethane	125	124	99	3	15	68-124	
cis-1,2-Dichloroethene	125	250	90	2	15	74-124	
cis-1,3-Dichloropropene	125	129	103	3	15	74-124	
Cyclohexane	125	145	116	1	20	59-135	
Dichlorodifluoromethane	125	143	114	7	20	59-135	
Ethylbenzene	125	149	109	1	15	77-123	
1,2-Dibromoethane	125	134	107	1	15	77-120	
Isopropylbenzene	125	173	111	5	20	77-122	
Methyl acetate	250	245	98	4	20	74-133	
Methyl tert-butyl ether	125	174	95	7	37	77-120	
Methylcyclohexane	125	145	115	4	20	68-134	
Methylene Chloride	125	125	100	2	15	75-124	
Styrene	125	136	109	4	20	80-120	
Tetrachloroethene	125	142	113	0	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S2583.D
 Lab ID: 480-137434-2 MSD Client ID: LAB-SBW16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	125	144	107	2	15	80-122	
trans-1,2-Dichloroethene	125	137	110	1	20	73-127	
trans-1,3-Dichloropropene	125	139	111	2	15	80-120	
Trichloroethene	125	134	107	1	16	74-123	
Trichlorofluoromethane	125	135	108	8	20	62-150	
Vinyl chloride	125	227	114	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab File ID: S2563.D Lab Sample ID: MB 480-420936/11
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 06/21/2018 20:39
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-420936/9	S2561.D	06/21/2018 19:34
LAB-SBW15	480-137434-1	S2564.D	06/21/2018 21:13
LAB-SBW16	480-137434-2	S2565.D	06/21/2018 21:36
DUPE	480-137434-3	S2566.D	06/21/2018 21:59
LAB-SBW16 MS	480-137434-2 MS	S2582.D	06/22/2018 04:12
LAB-SBW16 MSD	480-137434-2 MSD	S2583.D	06/22/2018 04:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab File ID: S2504.D BFB Injection Date: 06/20/2018
 Instrument ID: HP5973S BFB Injection Time: 12:54
 Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	6.2	(7.7) 1
176	95.0 - 101.0 % of mass 174	77.9	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.6	(5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab File ID: S2556.D BFB Injection Date: 06/21/2018
 Instrument ID: HP5973S BFB Injection Time: 17:57
 Analysis Batch No.: 420936

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	47.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	80.2	
175	5.0 - 9.0 % of mass 174	5.2	(6.5) 1
176	95.0 - 101.0 % of mass 174	77.7	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-420936/5	S2557.D	06/21/2018	18:24
	LCS 480-420936/9	S2561.D	06/21/2018	19:34
	MB 480-420936/11	S2563.D	06/21/2018	20:39
LAB-SBW15	480-137434-1	S2564.D	06/21/2018	21:13
LAB-SBW16	480-137434-2	S2565.D	06/21/2018	21:36
DUPE	480-137434-3	S2566.D	06/21/2018	21:59
LAB-SBW16 MS	480-137434-2 MS	S2582.D	06/22/2018	04:12
LAB-SBW16 MSD	480-137434-2 MSD	S2583.D	06/22/2018	04:35

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N
 Calibration ID: 34116

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT	394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT	98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-420936/5	213578	5.51	427371	8.51	380957	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Sample No.: CCVIS 480-420936/5 Date Analyzed: 06/21/2018 18:24
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2557.D Heated Purge: (Y/N) N
 Calibration ID: 34119

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	213578	5.51	427371	8.51	380957	10.89	
UPPER LIMIT	427156	6.01	854742	9.01	761914	11.39	
LOWER LIMIT	106789	5.01	213686	8.01	190479	10.39	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-420936/9	199546	5.51	395432	8.51	373782	10.89	
MB 480-420936/11	202766	5.51	405806	8.51	363143	10.89	
480-137434-1	LAB-SBW15	206938	5.51	410918	8.51	374741	10.89
480-137434-2	LAB-SBW16	203501	5.51	396668	8.51	361876	10.89
480-137434-3	DUPE	204374	5.51	401656	8.51	352780	10.89
480-137434-2 MS	LAB-SBW16 MS	198451	5.51	389924	8.51	374860	10.89
480-137434-2 MSD	LAB-SBW16 MSD	203761	5.51	393328	8.51	359239	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: S2564.D
 Analysis Method: 8260C Date Collected: 06/13/2018 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:13
 Soil Aliquot Vol: _____ Dilution Factor: 8
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
75-34-3	1,1-Dichloroethane	15		8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
78-93-3	2-Butanone (MEK)	ND		80	11
591-78-6	2-Hexanone	ND		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	20		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane	420		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	ND		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane	1.6	J	8.0	1.4
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
98-82-8	Isopropylbenzene	ND		8.0	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: S2564.D
 Analysis Method: 8260C Date Collected: 06/13/2018 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:13
 Soil Aliquot Vol: _____ Dilution Factor: 8
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether	9.4		8.0	1.3
108-87-2	Methylcyclohexane	12		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	ND		8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	ND		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	5.4	J	16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: S2564.D
 Analysis Method: 8260C Date Collected: 06/13/2018 14:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:13
 Soil Aliquot Vol: _____ Dilution Factor: 8
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D
 Lims ID: 480-137434-H-1
 Client ID: LAB-SBW15
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:13:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 8.0000
 Sample Info: 480-137434-h-1
 Misc. Info.: 480-0072528-013
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 14:28:30 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: carrolln Date: 22-Jun-2018 14:28:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	206938	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	410918	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	98	374741	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	66	247535	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	155775	24.0	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	1002125	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	313478	25.5	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.890				ND	
15 Chloroethane	64	1.981	1.994	-0.013	99	451296	53.0	
17 Trichlorofluoromethane	101		2.188				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.705				ND	
22 1,1-Dichloroethene	96		2.718				ND	
23 Acetone	43	2.851	2.851	0.006	88	8522	2.14	a
26 Carbon disulfide	76		2.930				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.241				ND	Ua
32 Methyl tert-butyl ether	73	3.460	3.454	0.006	78	40324	1.18	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	15	2147	0.2052	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	80	42463	1.93	
45 cis-1,2-Dichloroethene	96		4.457				ND	Ua
43 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.768				ND	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	20	3823	0.2668	
52 Cyclohexane	56	4.895	4.877	0.018	25	3774	0.1958	
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	57	109824	2.50	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95		5.851				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	84	26831	1.56	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92	7.085	7.086	-0.001	80	11386	0.4168	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.572				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	42	9837	0.1998	
90 m-Xylene & p-Xylene	106	8.746	8.752	-0.006	0	13548	0.6765	
91 o-Xylene	106	9.178	9.178	0.000	83	10444	0.5495	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105	9.561	9.562	-0.001	72	15687	0.3320	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		1.23	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Worklist Smp#: 13

Client ID: LAB-SBW15

Purge Vol: 5.000 mL

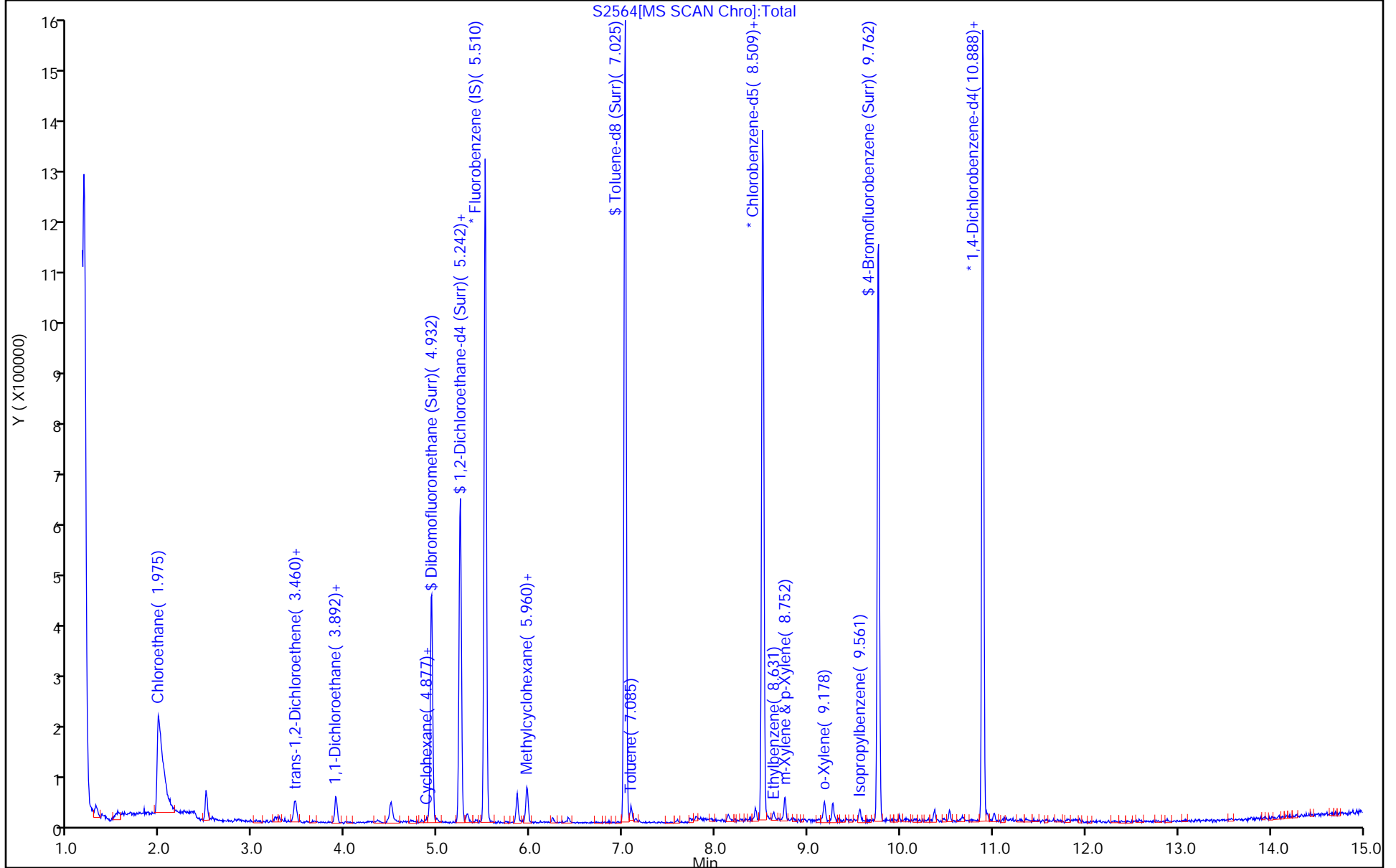
Dil. Factor: 8.0000

ALS Bottle#: 12

Method: S-8260

Limit Group: MV - 8260C ICAL

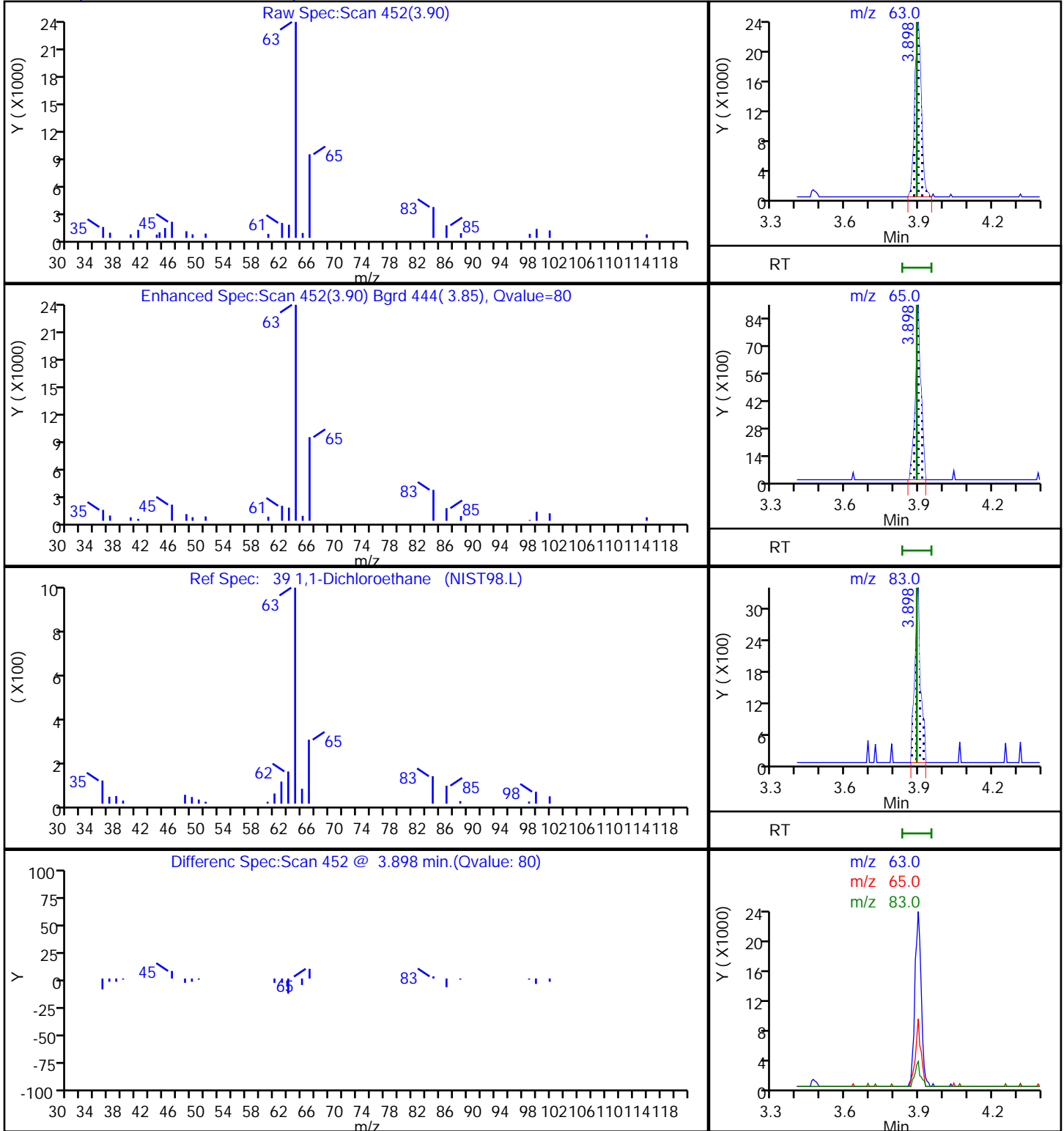
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D
Injection Date: 21-Jun-2018 21:13:30 Instrument ID: HP5973S
Lims ID: 480-137434-H-1 Lab Sample ID: 480-137434-1
Client ID: LAB-SBW15
Operator ID: KN ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Client ID: LAB-SBW15

Operator ID: KN

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 8.0000

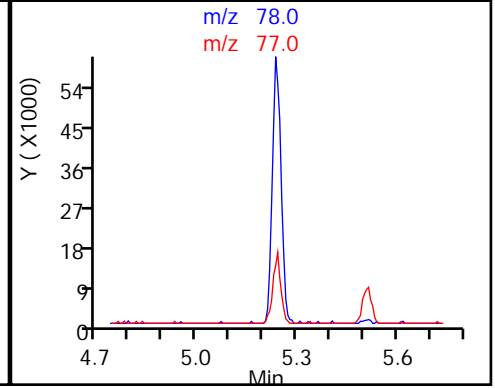
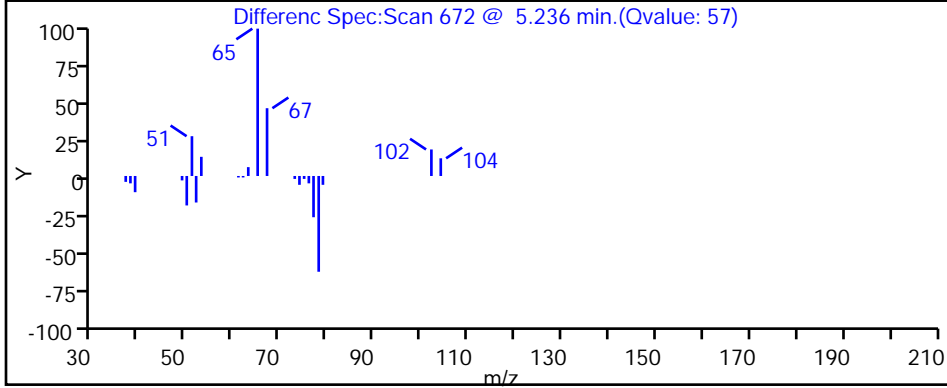
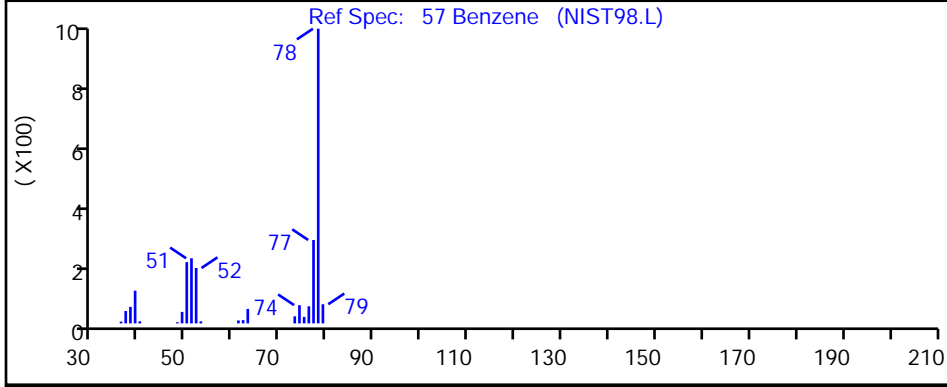
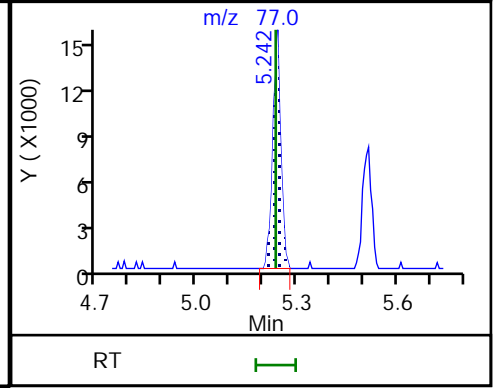
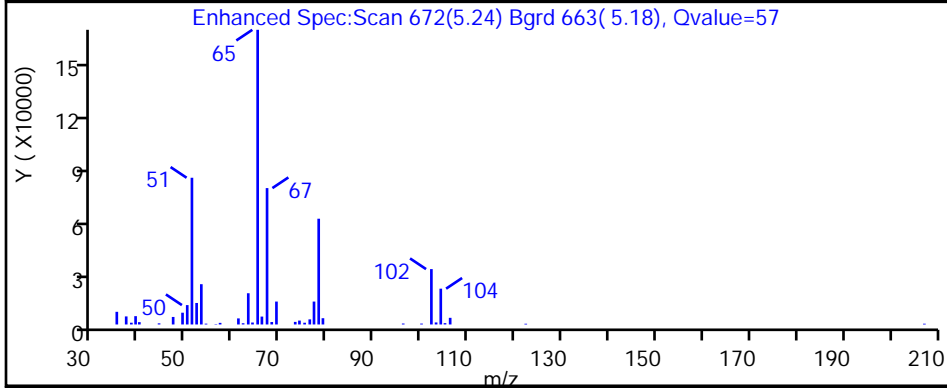
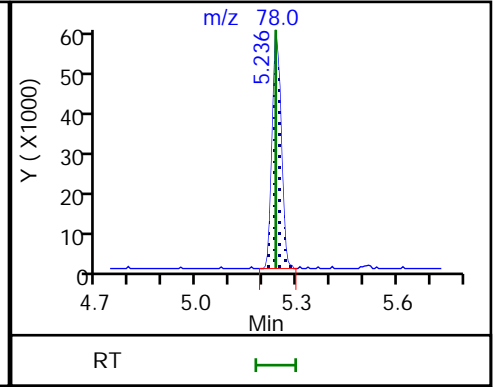
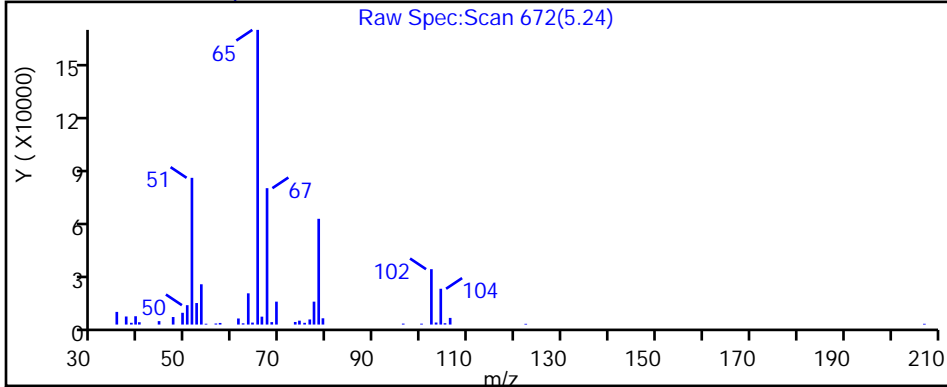
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Client ID: LAB-SBW15

Operator ID: KN

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 8.0000

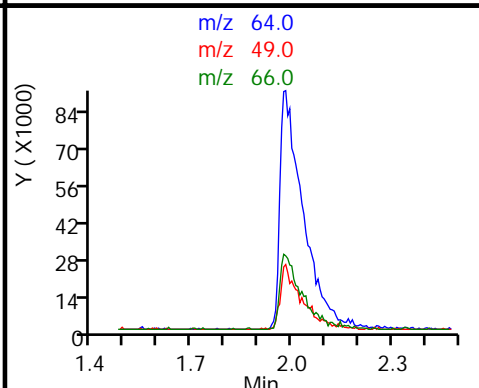
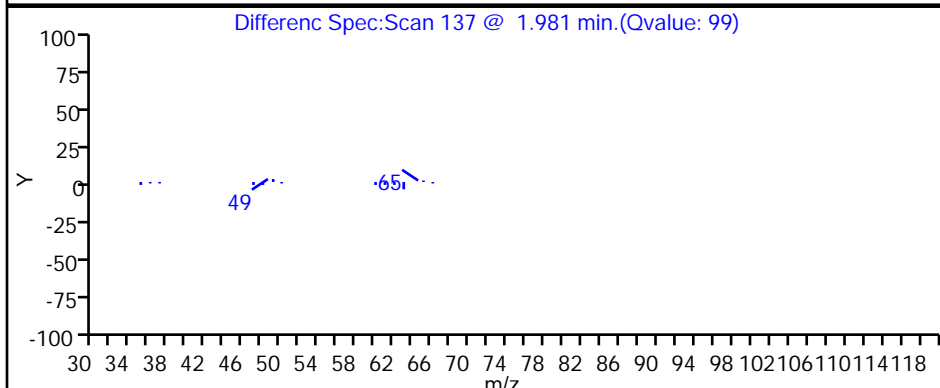
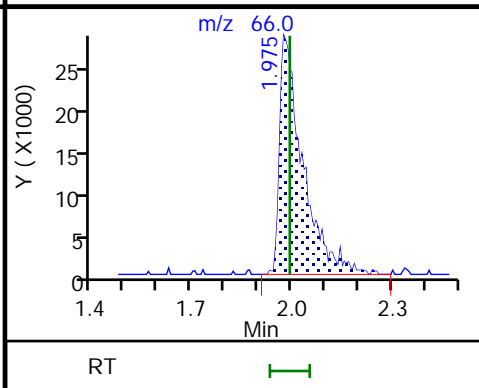
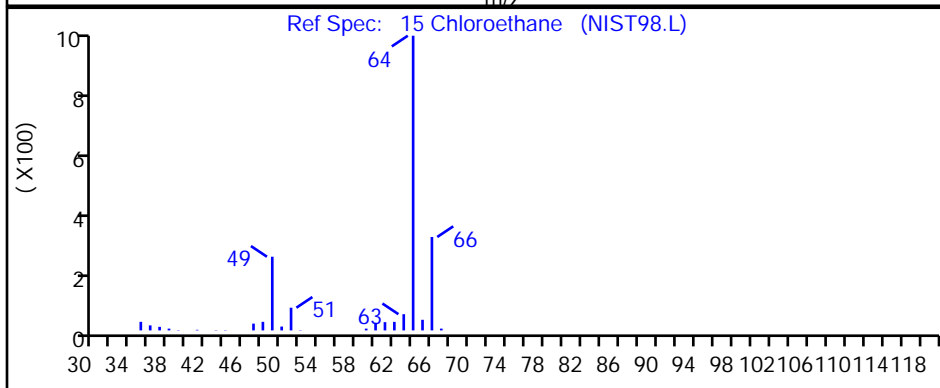
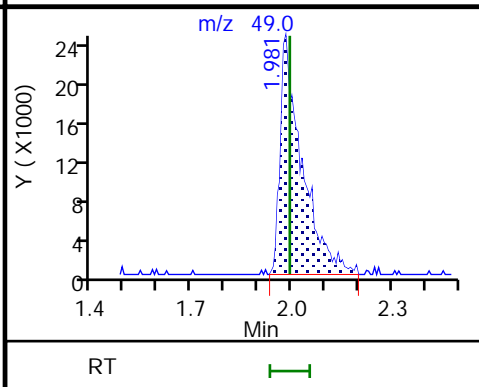
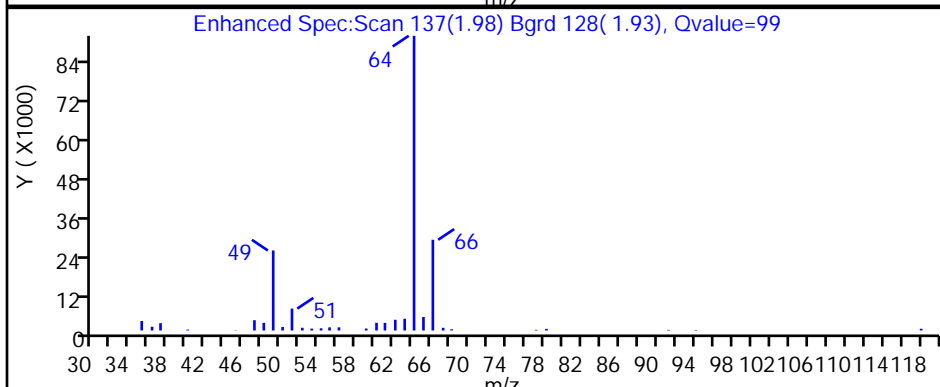
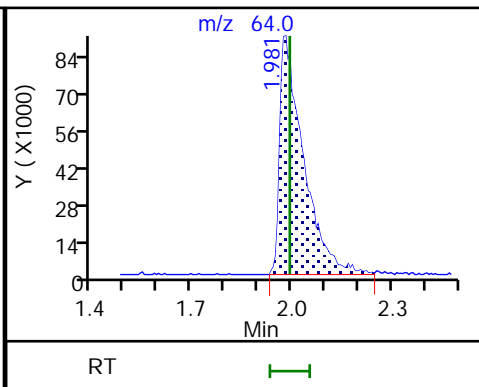
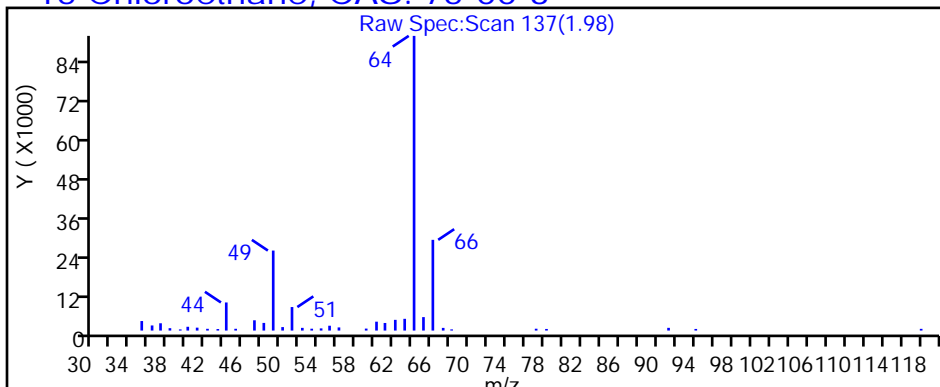
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Client ID: LAB-SBW15

Operator ID: KN

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 8.0000

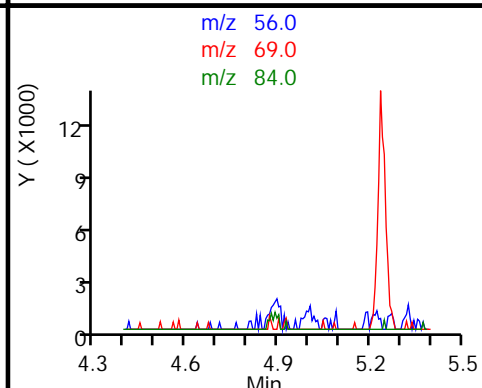
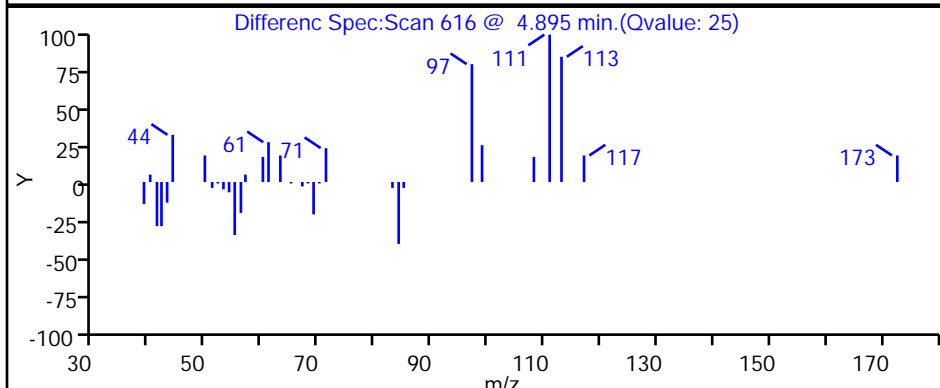
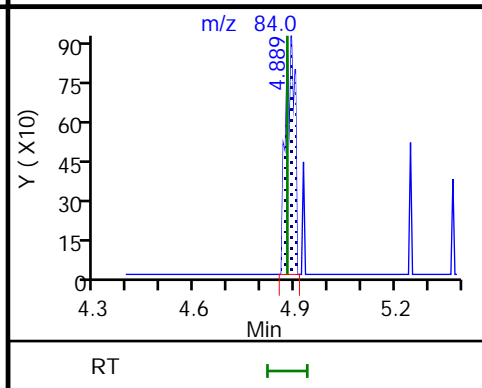
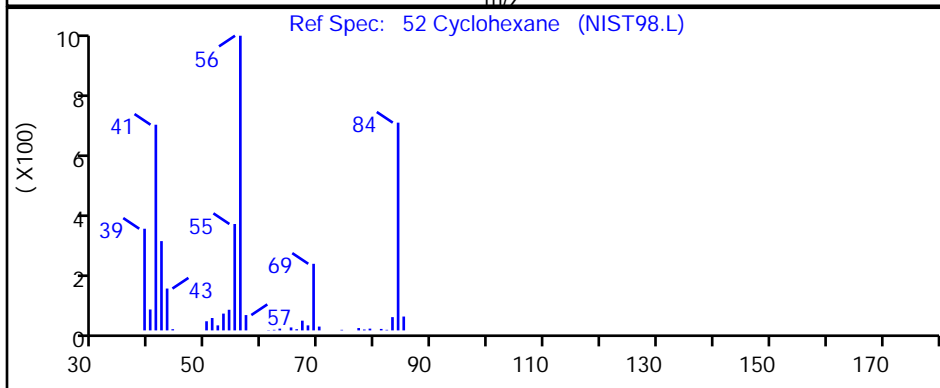
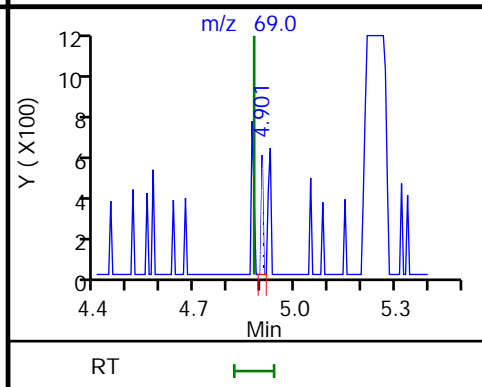
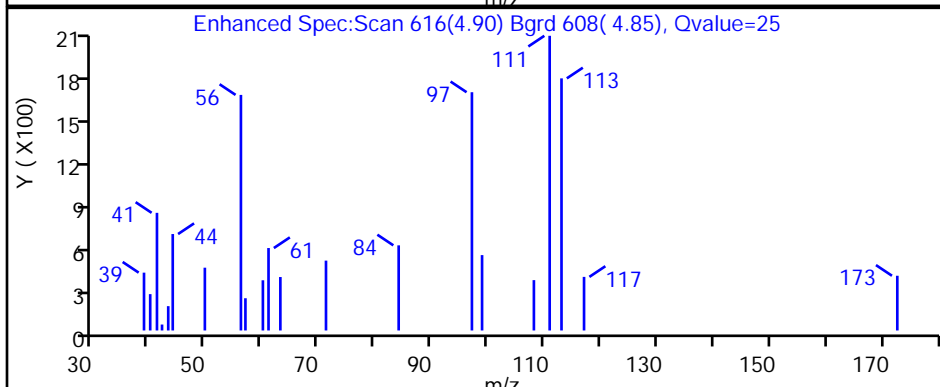
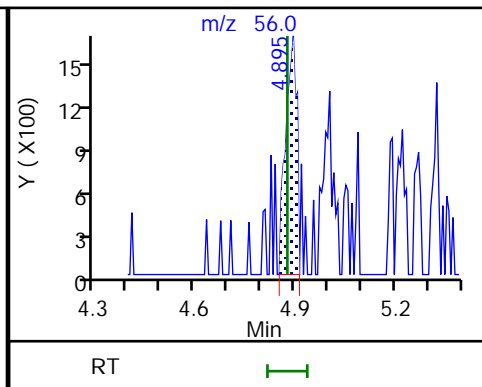
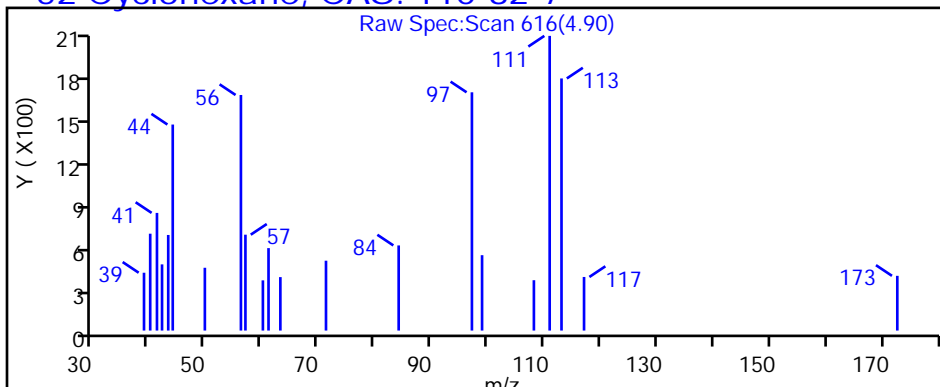
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Client ID: LAB-SBW15

Operator ID: KN

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 8.0000

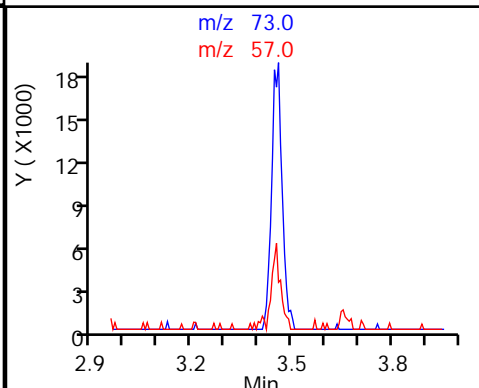
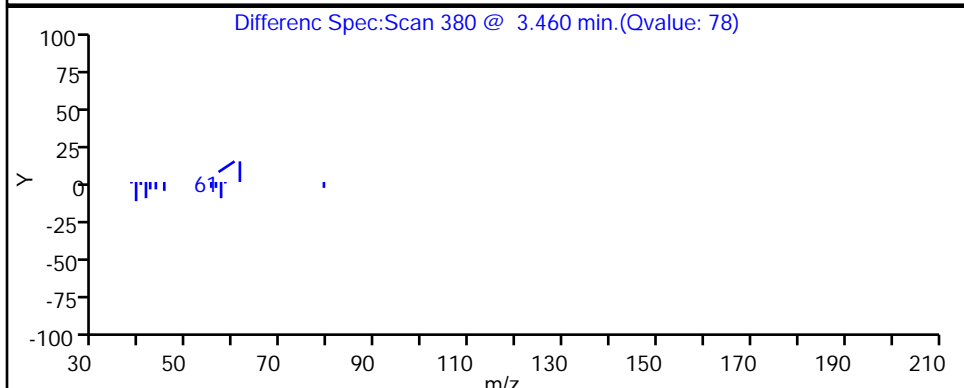
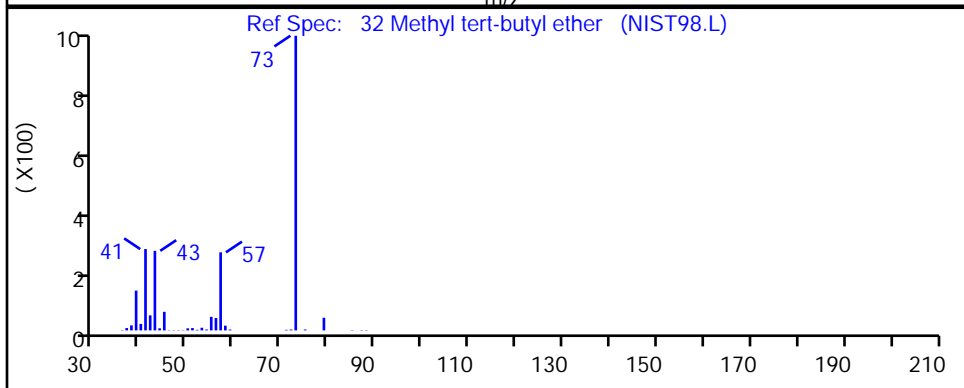
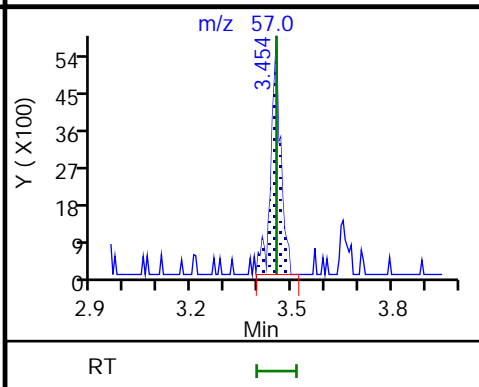
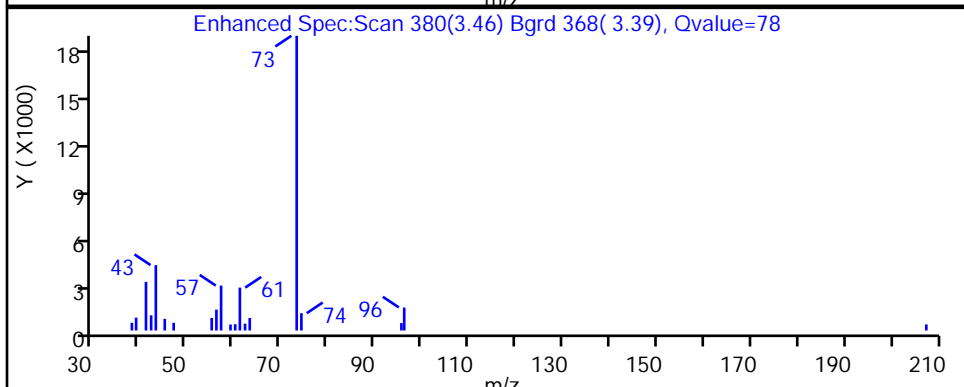
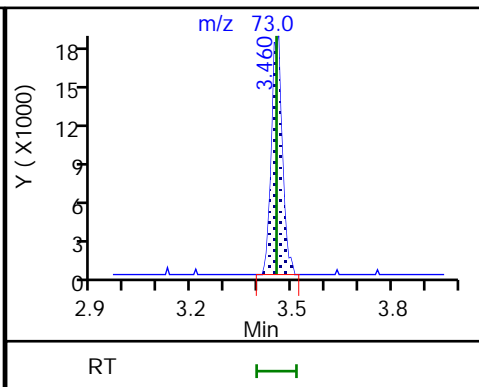
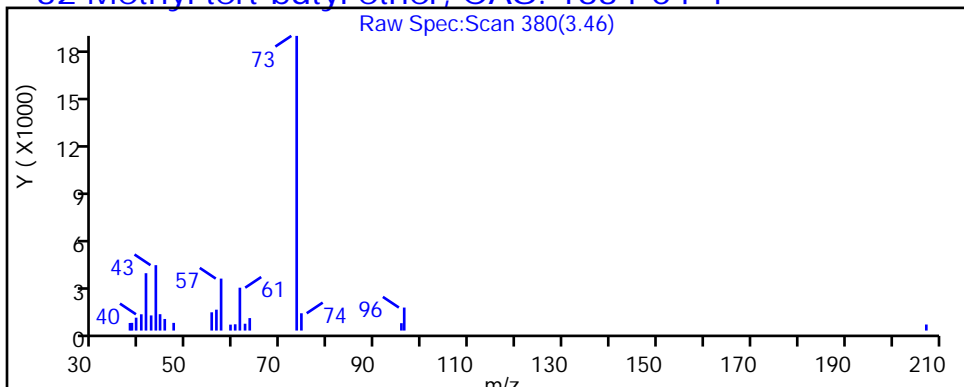
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Client ID: LAB-SBW15

Operator ID: KN

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 8.0000

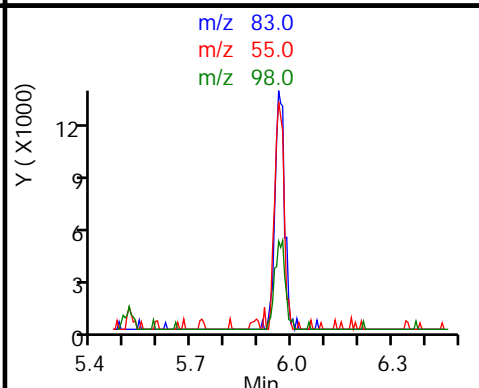
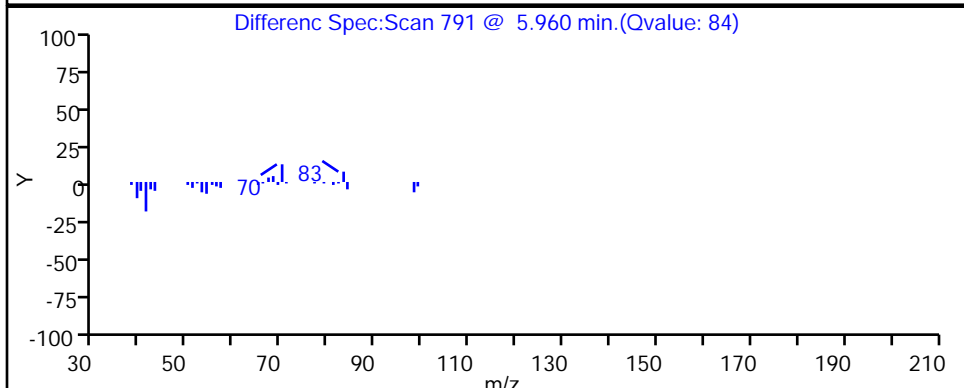
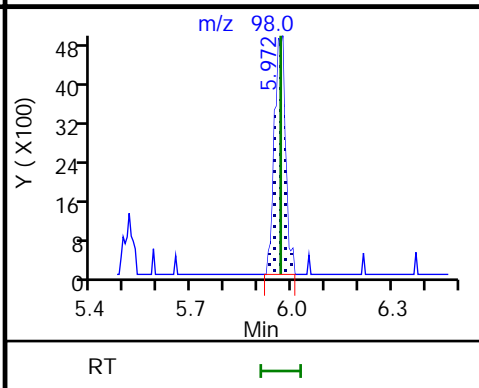
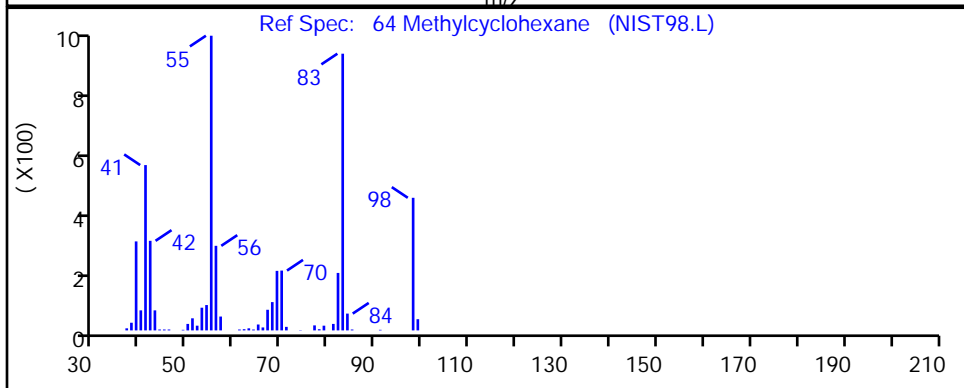
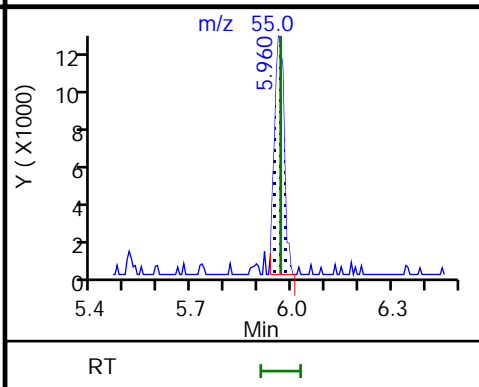
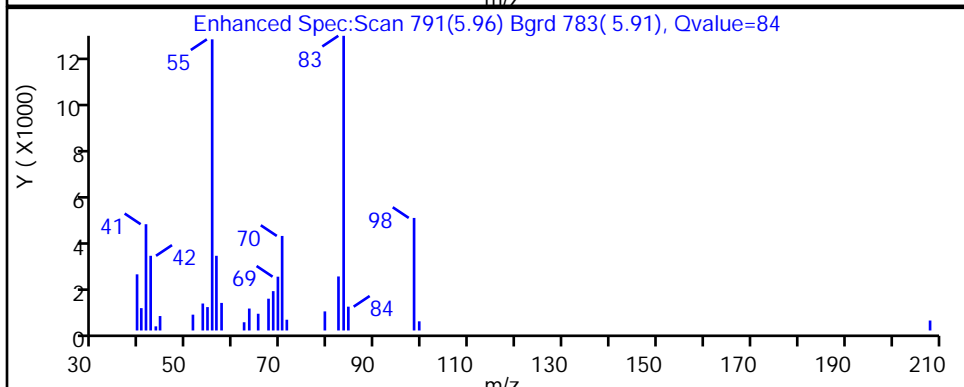
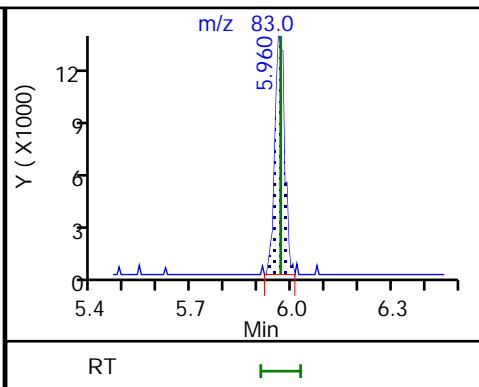
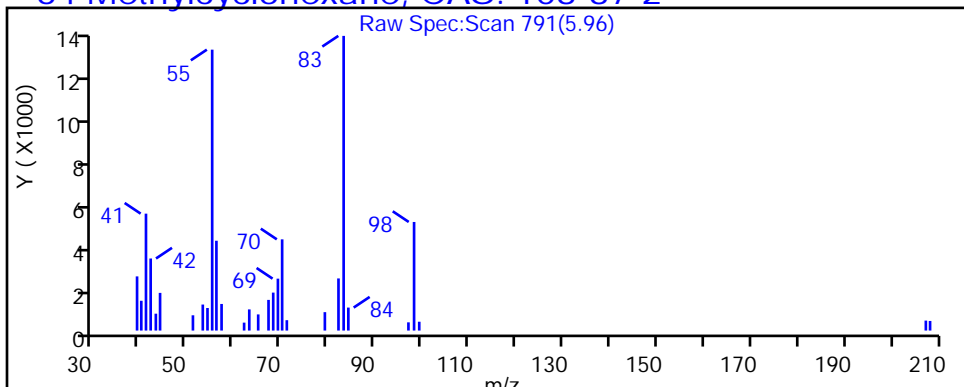
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D

Injection Date: 21-Jun-2018 21:13:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-1

Lab Sample ID: 480-137434-1

Client ID: LAB-SBW15

Operator ID: KN

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 8.0000

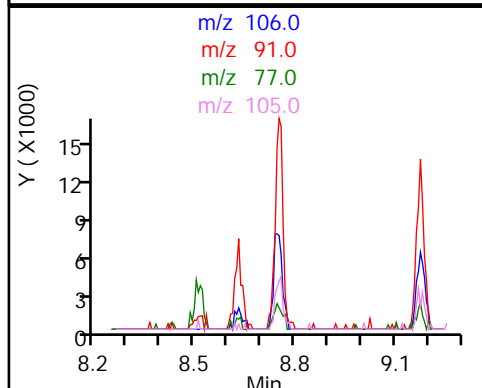
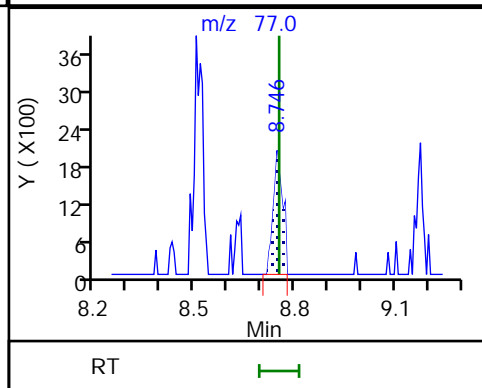
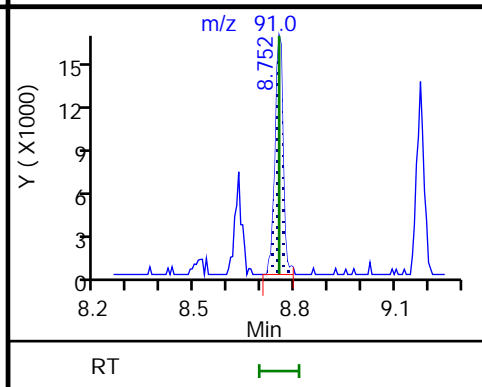
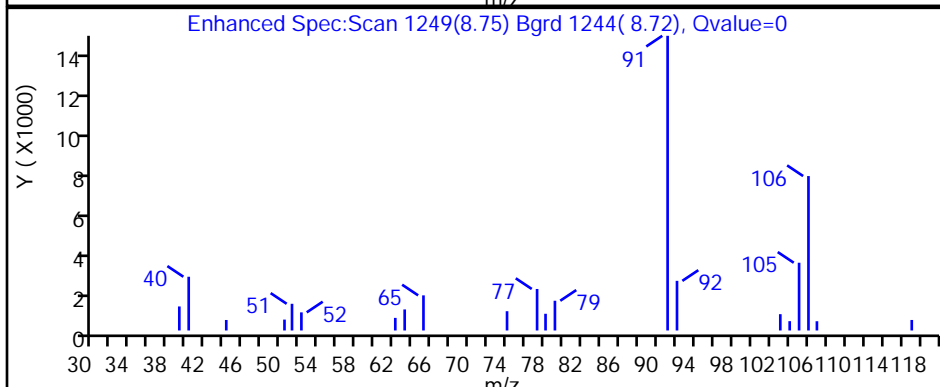
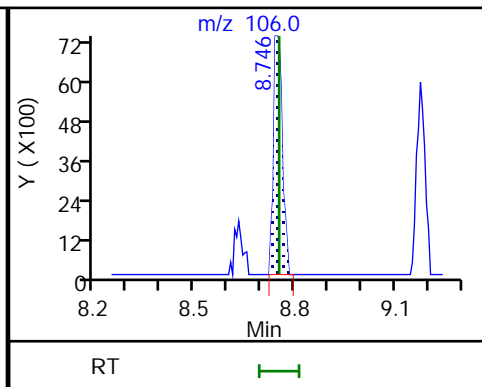
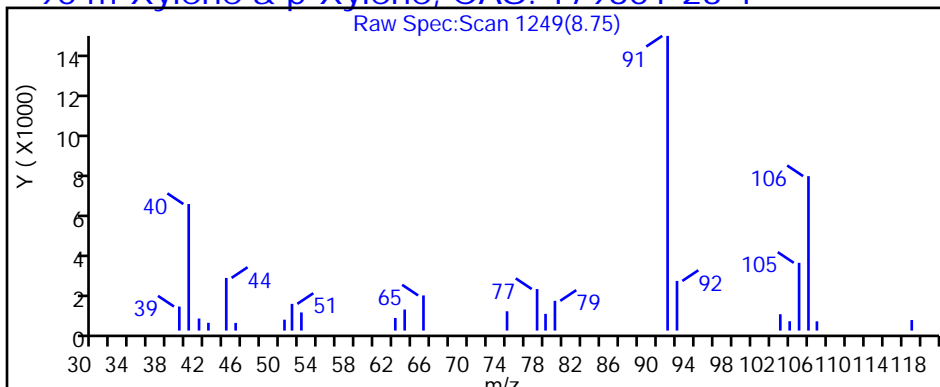
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

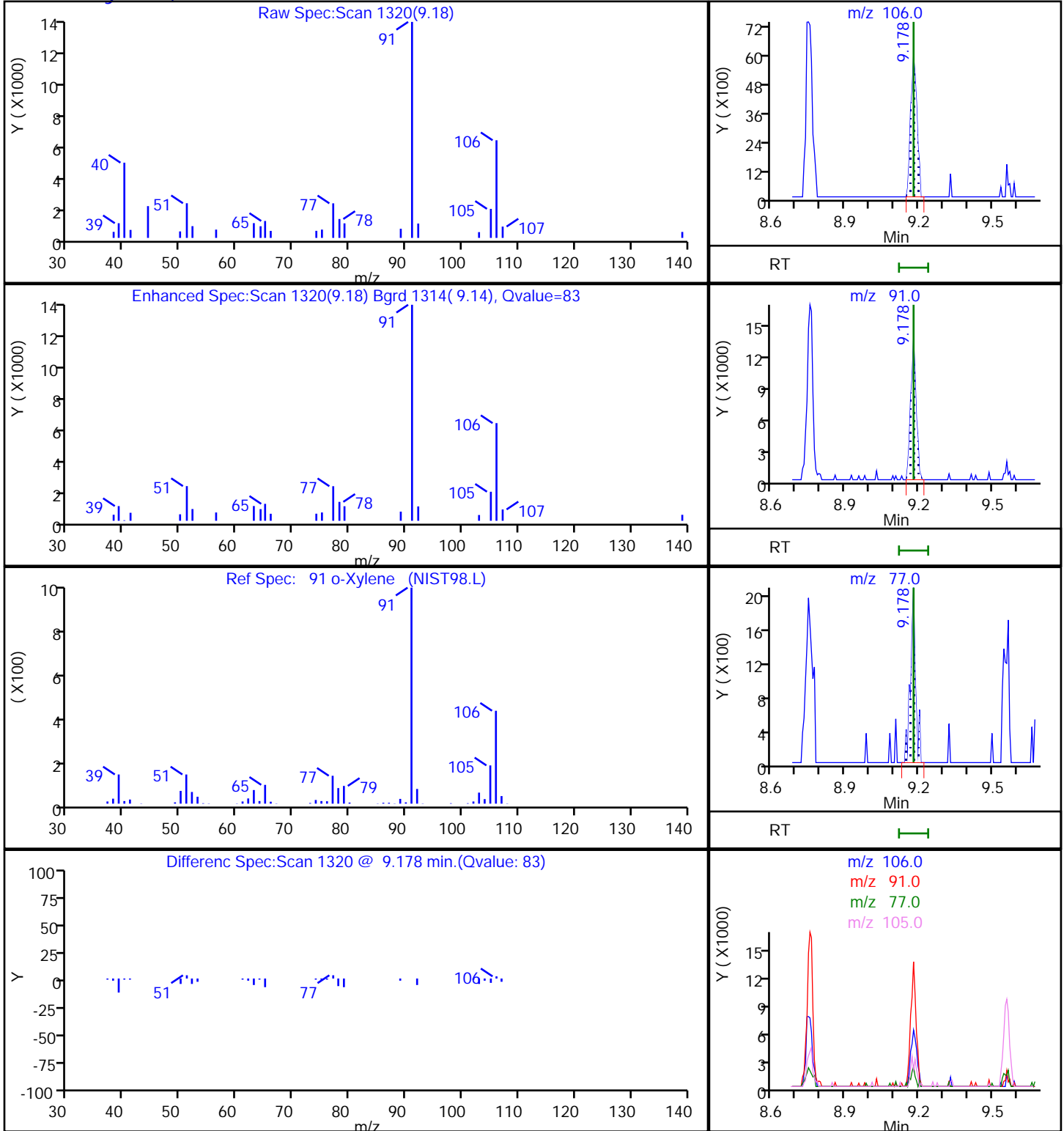
90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D
Injection Date: 21-Jun-2018 21:13:30 Instrument ID: HP5973S
Lims ID: 480-137434-H-1 Lab Sample ID: 480-137434-1
Client ID: LAB-SBW15
Operator ID: KN ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 8.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

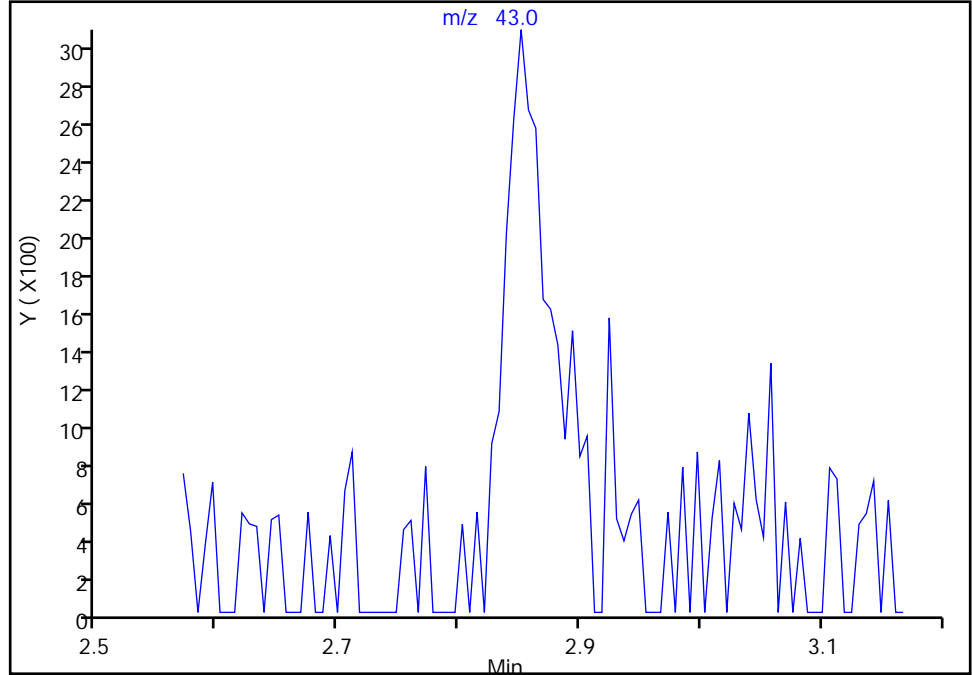
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2564.D	Instrument ID:	HP5973S	Worklist Smp#:	13
Injection Date:	21-Jun-2018 21:13:30	Lab Sample ID:	480-137434-1		
Lims ID:	480-137434-H-1				
Client ID:	LAB-SBW15				
Operator ID:	KN	ALS Bottle#:	12		
Purge Vol:	5.000 mL	Dil. Factor:	8.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

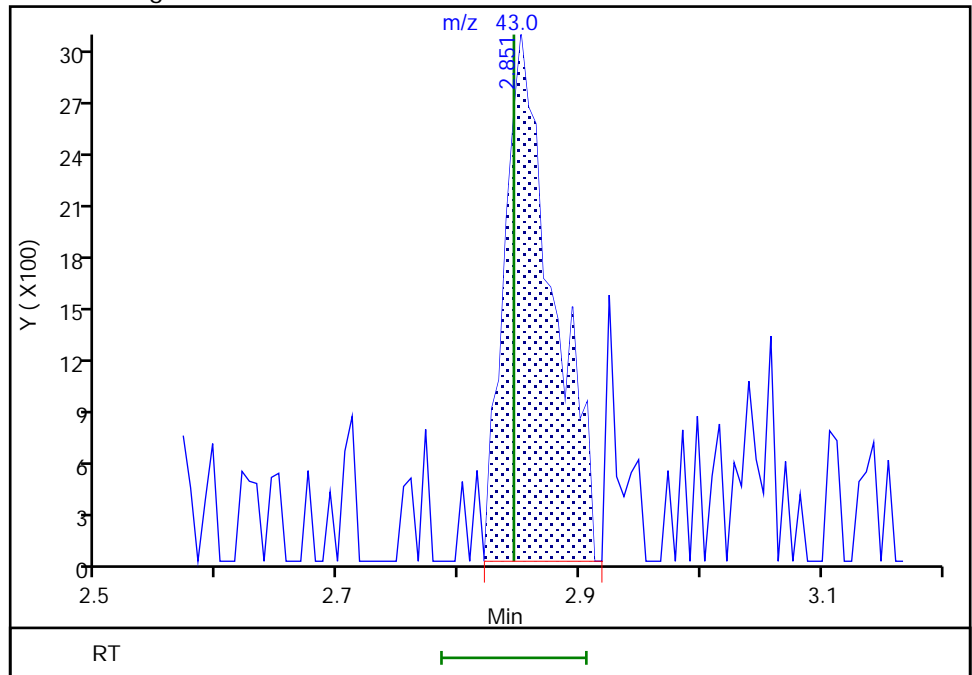
Not Detected
Expected RT: 2.85

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 8522
Amount: 2.140467
Amount Units: ug/L



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: S2565.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	1.6
75-34-3	1,1-Dichloroethane	35		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	15	J	50	15
71-43-2	Benzene	23		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	3.3	J	5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	140		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	12		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	35		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: S2565.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	55		5.0	0.80
108-87-2	Methylcyclohexane	1.3	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	10		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	84		5.0	4.5
1330-20-7	Xylenes, Total	160		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: S2565.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 5 TIC Result Total: 163

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	9.27	16	T J	
620-14-4	Benzene, 1-ethyl-3-methyl-	10.16	15	T J N	91%
108-67-8	Benzene, 1,3,5-trimethyl-	10.53	70	T J N	95%
526-73-8	Benzene, 1,2,3-trimethyl-	10.94	47	T J N	94%
	Unknown	11.13	15	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D
 Lims ID: 480-137434-H-2
 Client ID: LAB-SBW16
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:36:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137434-h-2
 Misc. Info.: 480-0072528-014
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 14:38:25 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: carrolln

Date: 22-Jun-2018 14:38:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	203501	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	84	396668	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	98	361876	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	57	243862	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	159703	25.0	
\$ 5 Toluene-d8 (Surr)	98	7.024	7.025	-0.001	93	968126	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	302715	25.5	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62	1.549	1.549	0.000	95	232931	16.8	
14 Bromomethane	94		1.890				ND	
15 Chloroethane	64	2.018	1.994	0.024	40	5559	0.6634	
17 Trichlorofluoromethane	101		2.188				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	-0.012	34	23047	3.22	M
22 1,1-Dichloroethene	96		2.718				ND	U
23 Acetone	43	2.857	2.857	0.012	84	11622	2.97	M
26 Carbon disulfide	76		2.930				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.241				ND	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	90	370982	11.0	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	65	3148	0.3060	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	96	152625	7.04	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	326321	27.6	
43 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.768				ND	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	90	53787	3.82	
52 Cyclohexane	56		4.877				ND	
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	75	196032	4.54	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95		5.851				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.966	5.966	0.000	45	4431	0.2612	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92	7.091	7.086	0.005	69	53347	2.02	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.572				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	97	117536	2.47	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	587202	30.4	
91 o-Xylene	106	9.178	9.178	0.000	92	36856	2.01	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105	9.561	9.562	-0.001	94	318729	6.99	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146	11.271	11.271	0.006	1	3028	0.1371	a
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		32.4	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D
 Lims ID: 480-137434-H-2
 Client ID: LAB-SBW16
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:36:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137434-h-2
 Misc. Info.: 480-0072528-014
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 14:38:25 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016
 First Level Reviewer: carrolln Date: 22-Jun-2018 14:38:25

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
9.269	303481	3.16	2					
	620-14-4							
10.158	268155	2.99	3	91	119295	C9H12	120	I
	108-67-8							
10.529	1248750	13.9	3	95	119299	C9H12	120	
	526-73-8							
10.936	837253	9.32	3	94	119303	C9H12	120	
11.131	268391	2.99	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 2 Chlorobenzene-d5	8.509	2402932	25.0
* 3 1,4-Dichlorobenzene-d4	10.888	2245428	25.0

QC Flag Legend

Processing Flags

Review Flags

I - User Selected Library Match

Reagents:

S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Worklist Smp#: 14

Client ID: LAB-SBW16

Purge Vol: 5.000 mL

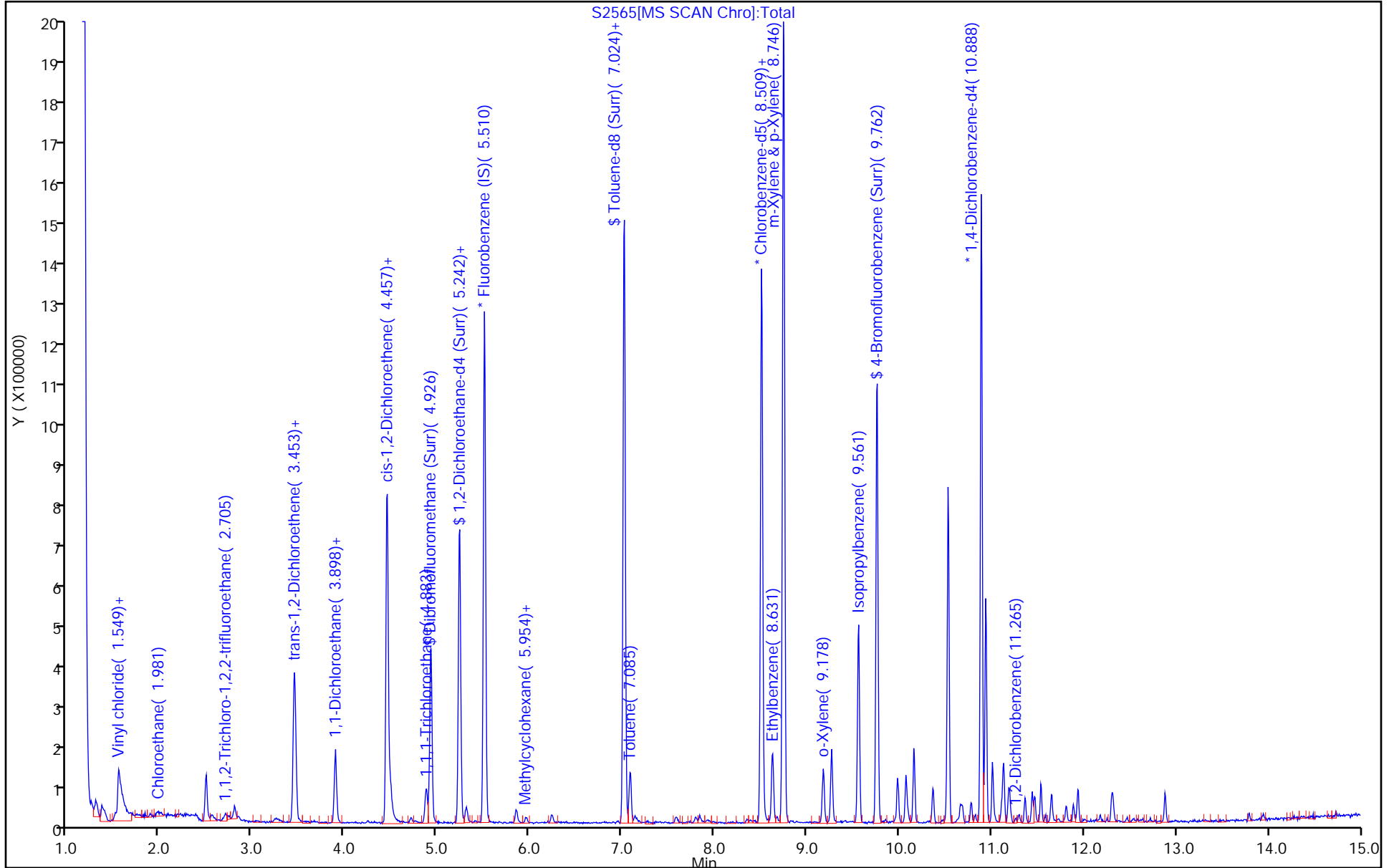
Dil. Factor: 5.0000

ALS Bottle#: 13

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

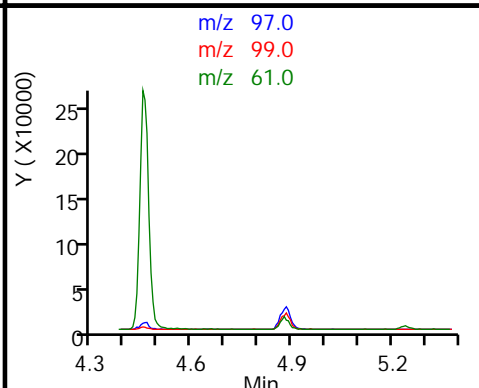
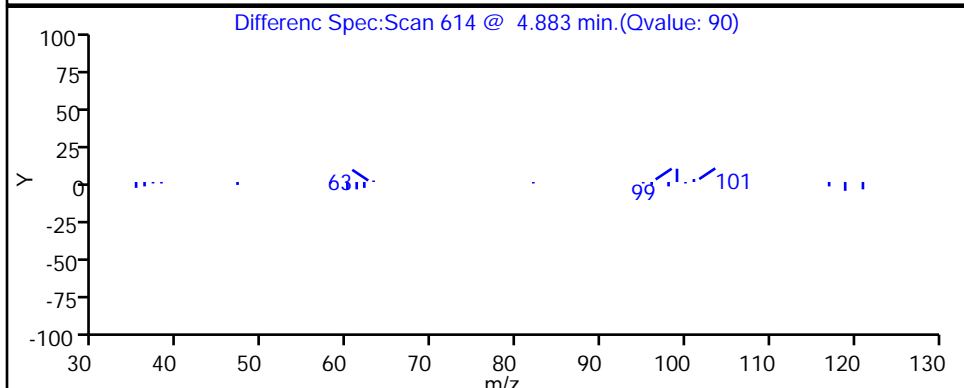
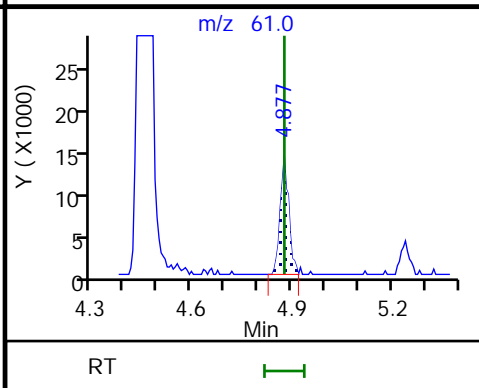
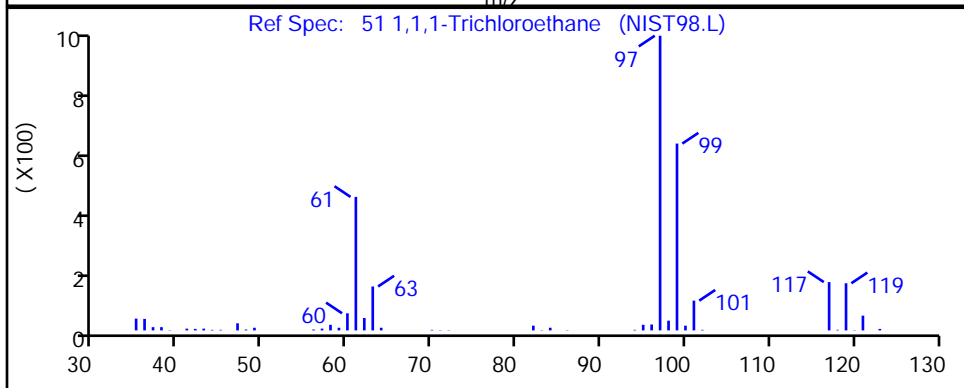
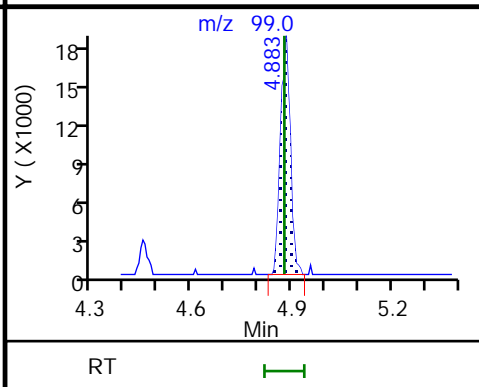
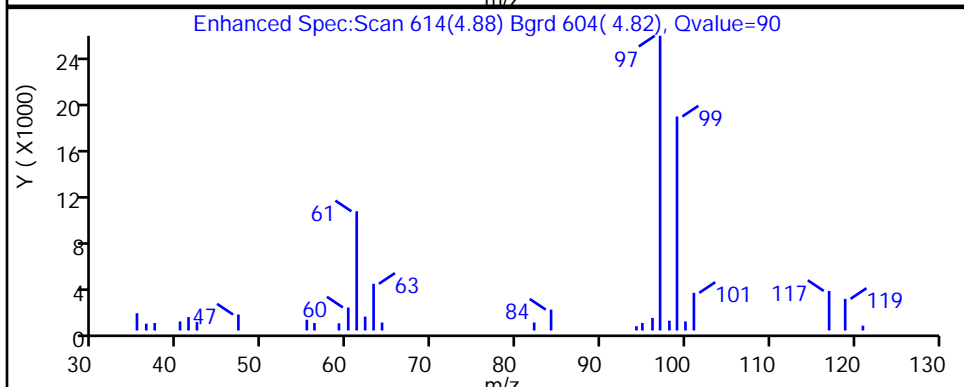
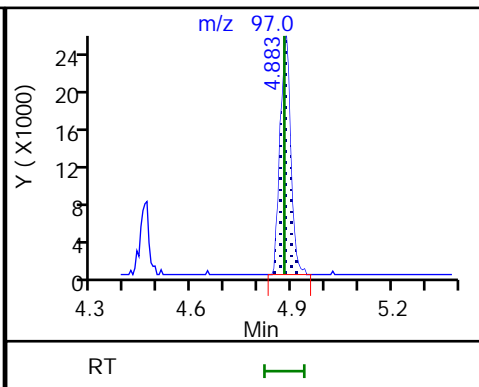
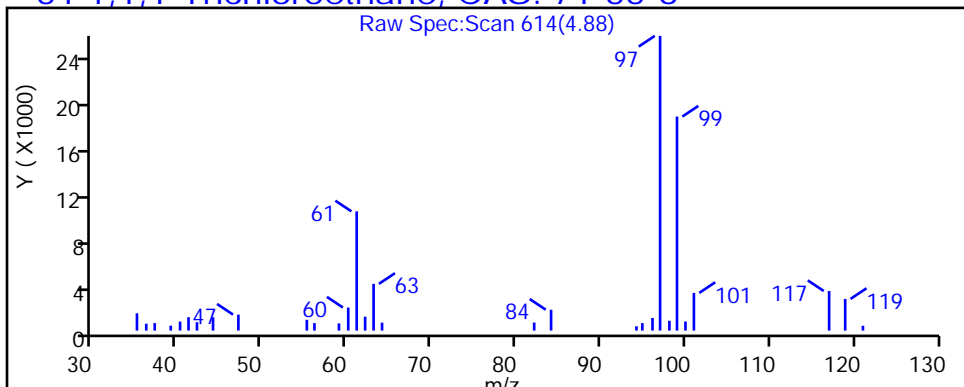
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

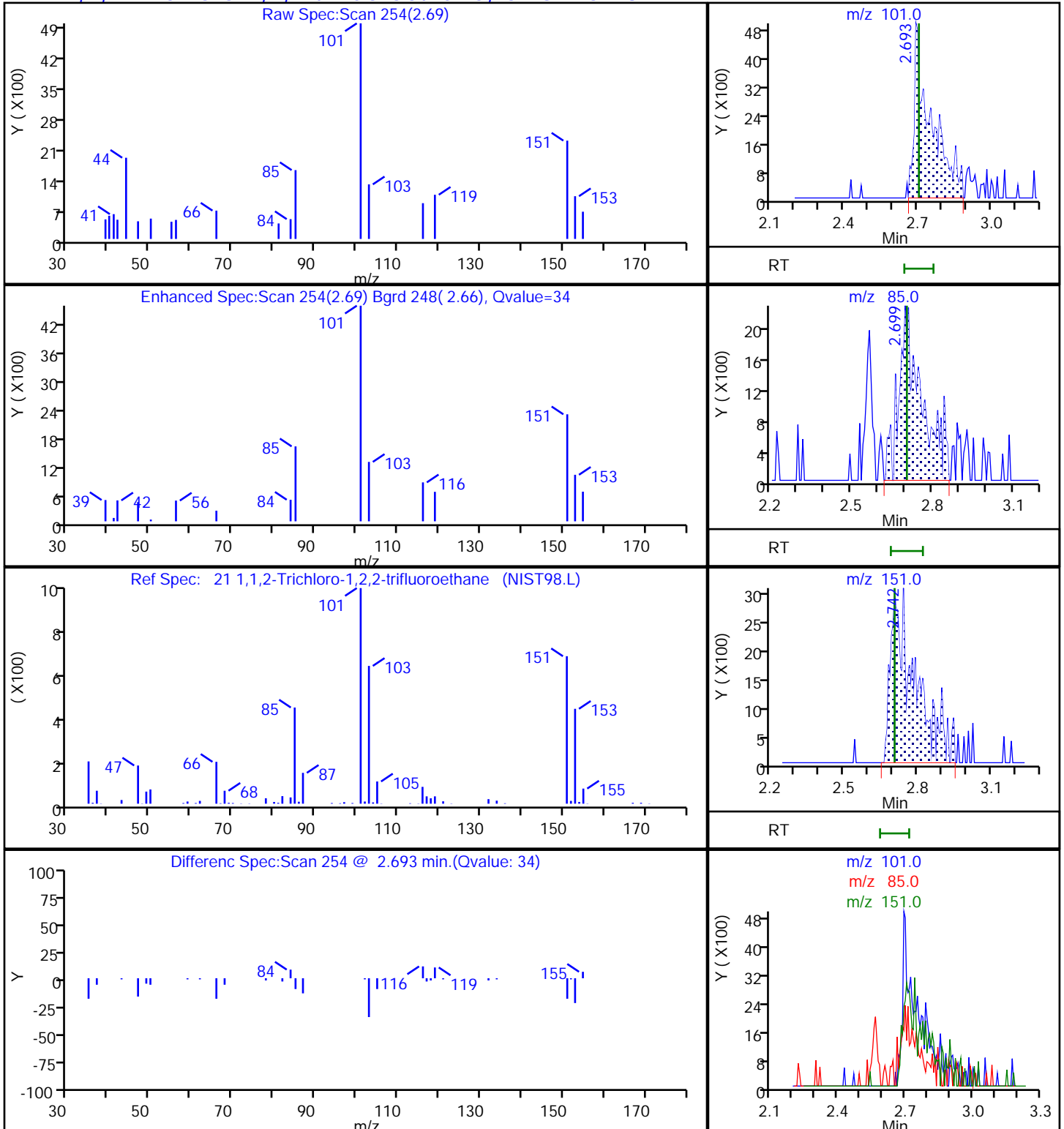
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

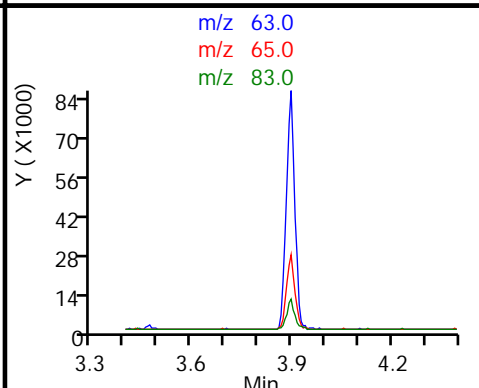
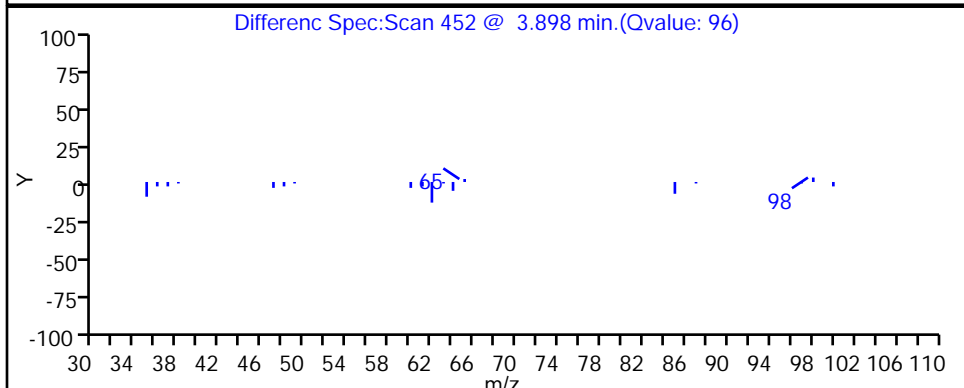
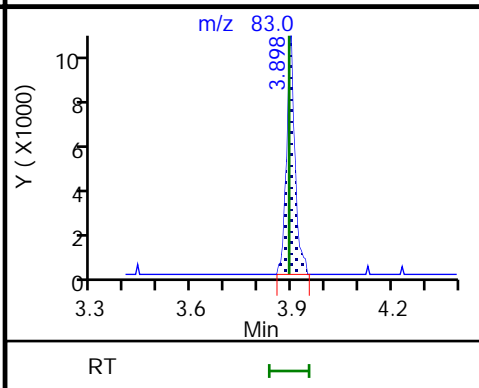
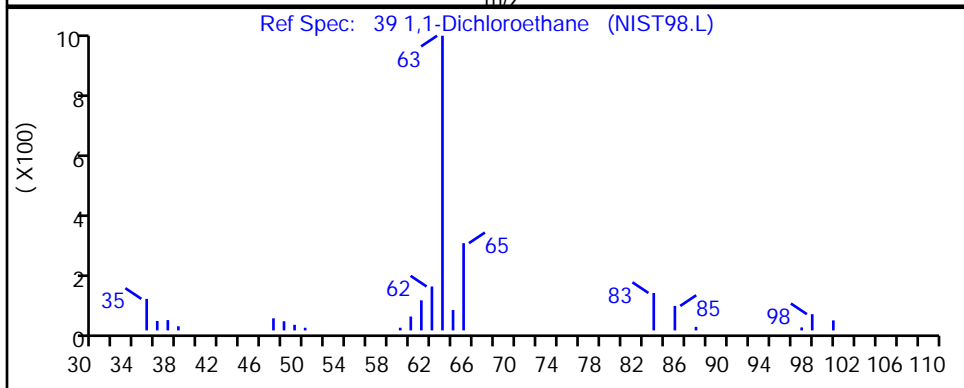
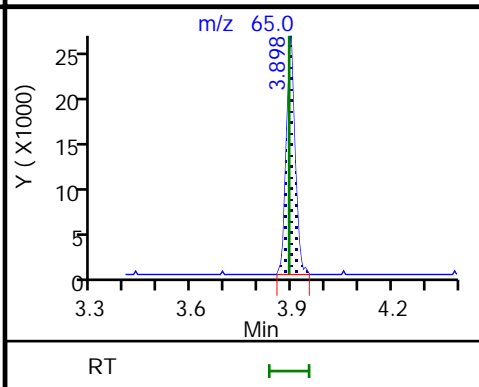
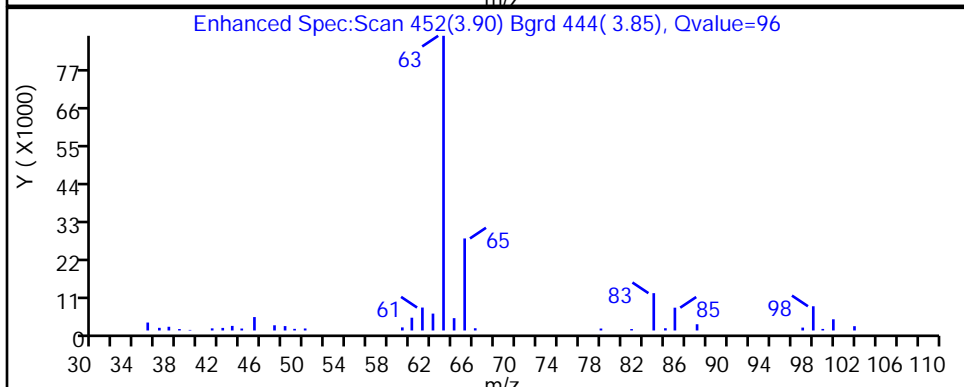
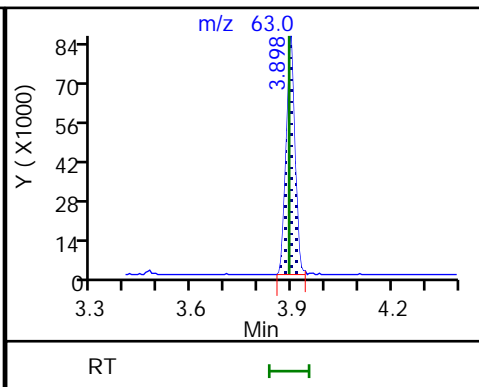
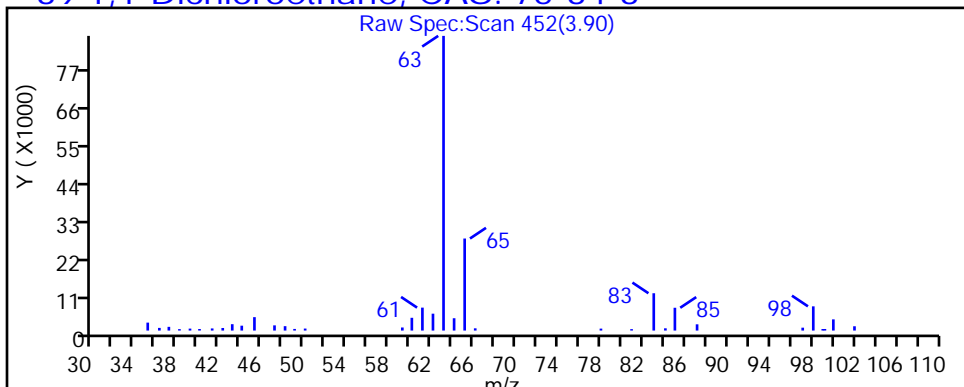
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

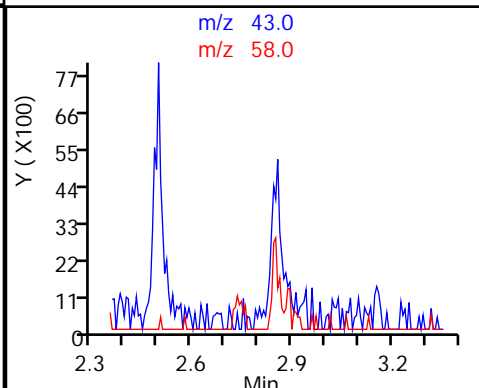
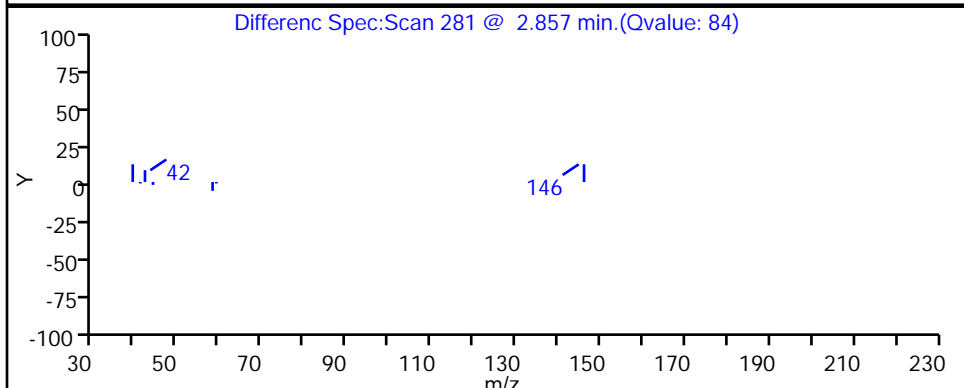
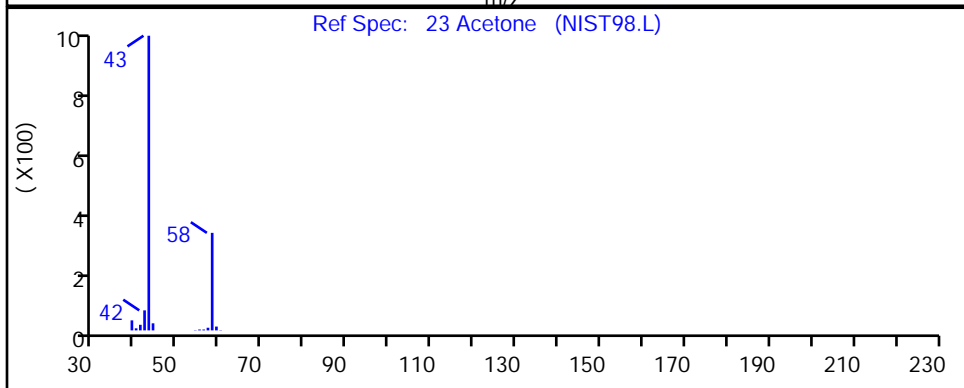
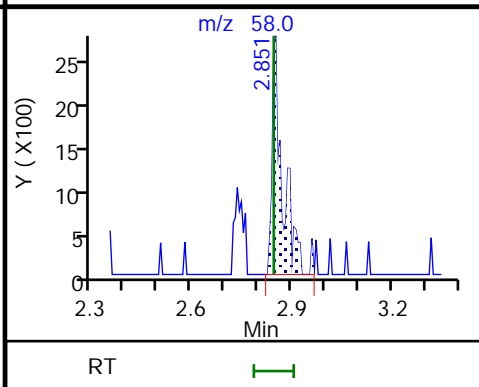
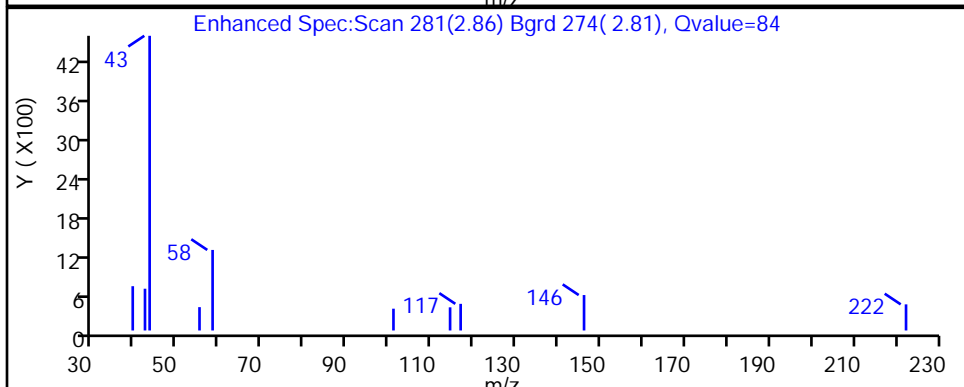
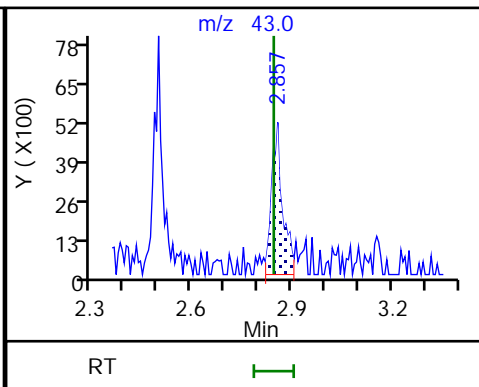
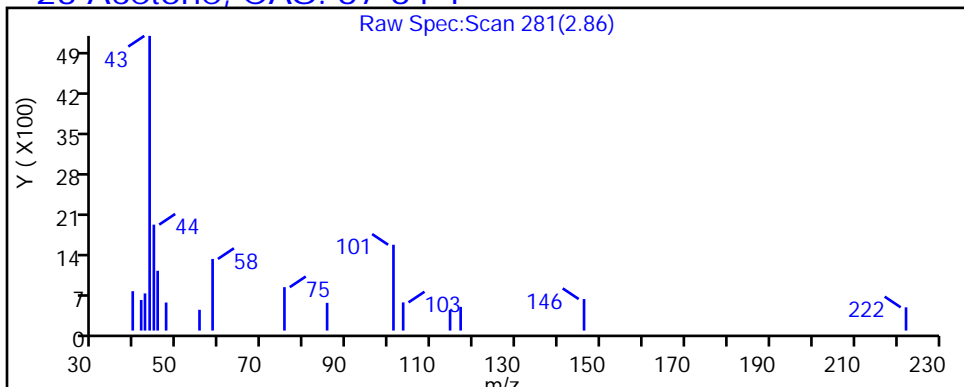
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

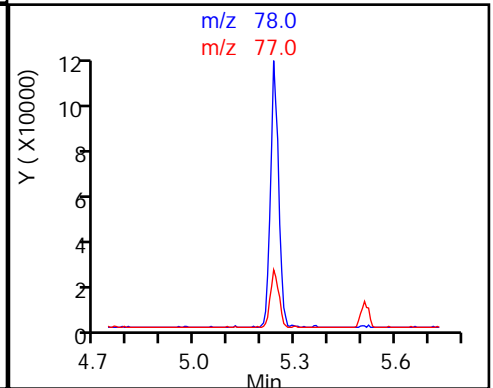
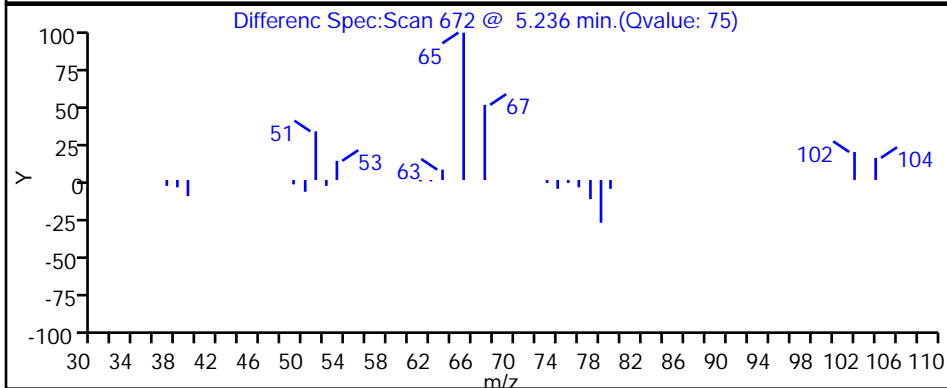
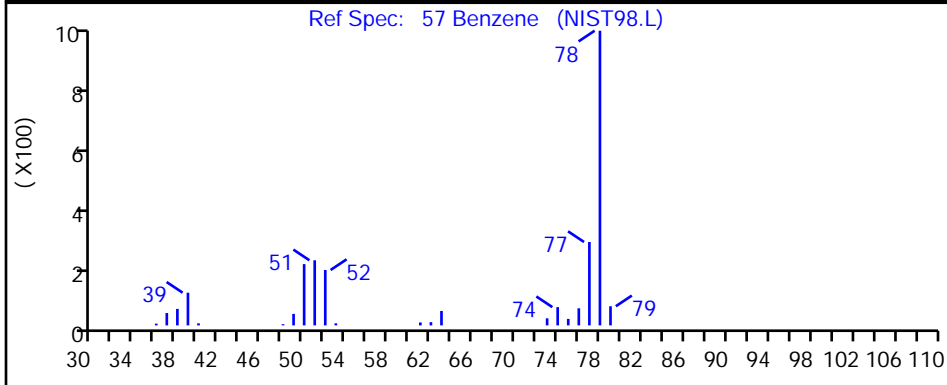
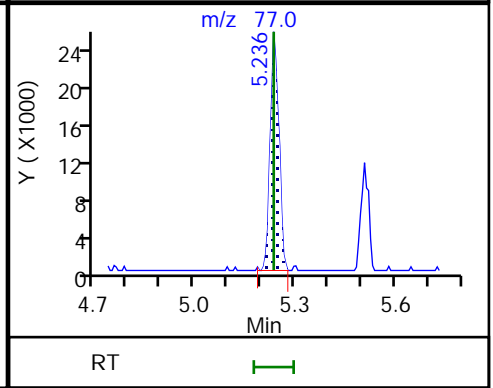
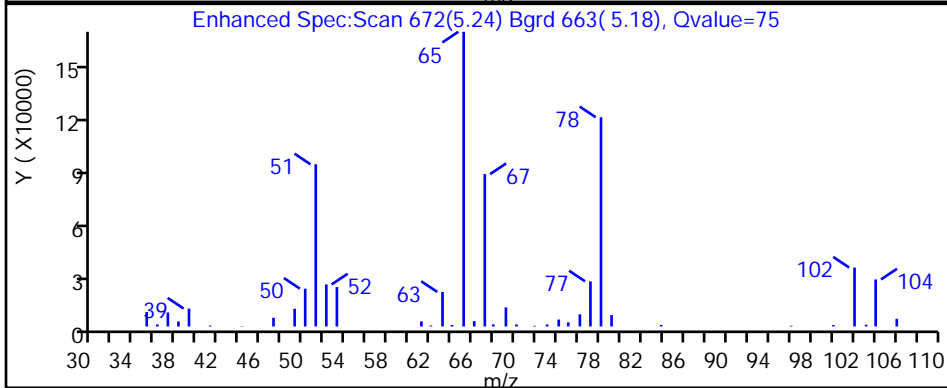
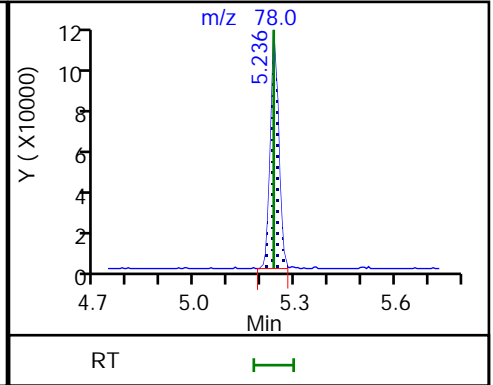
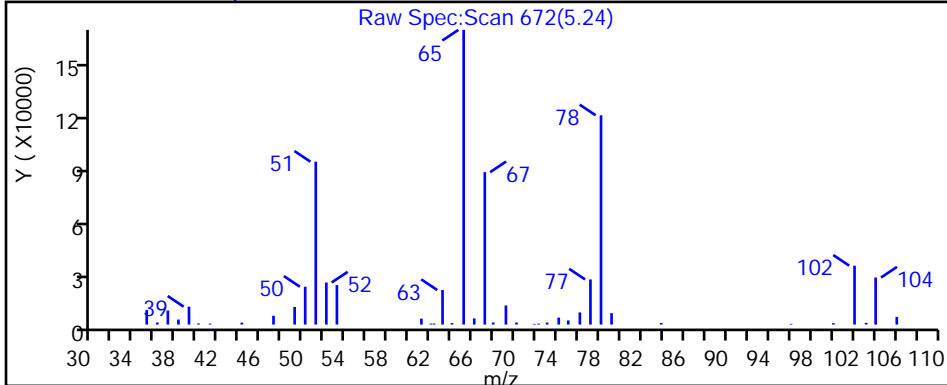
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

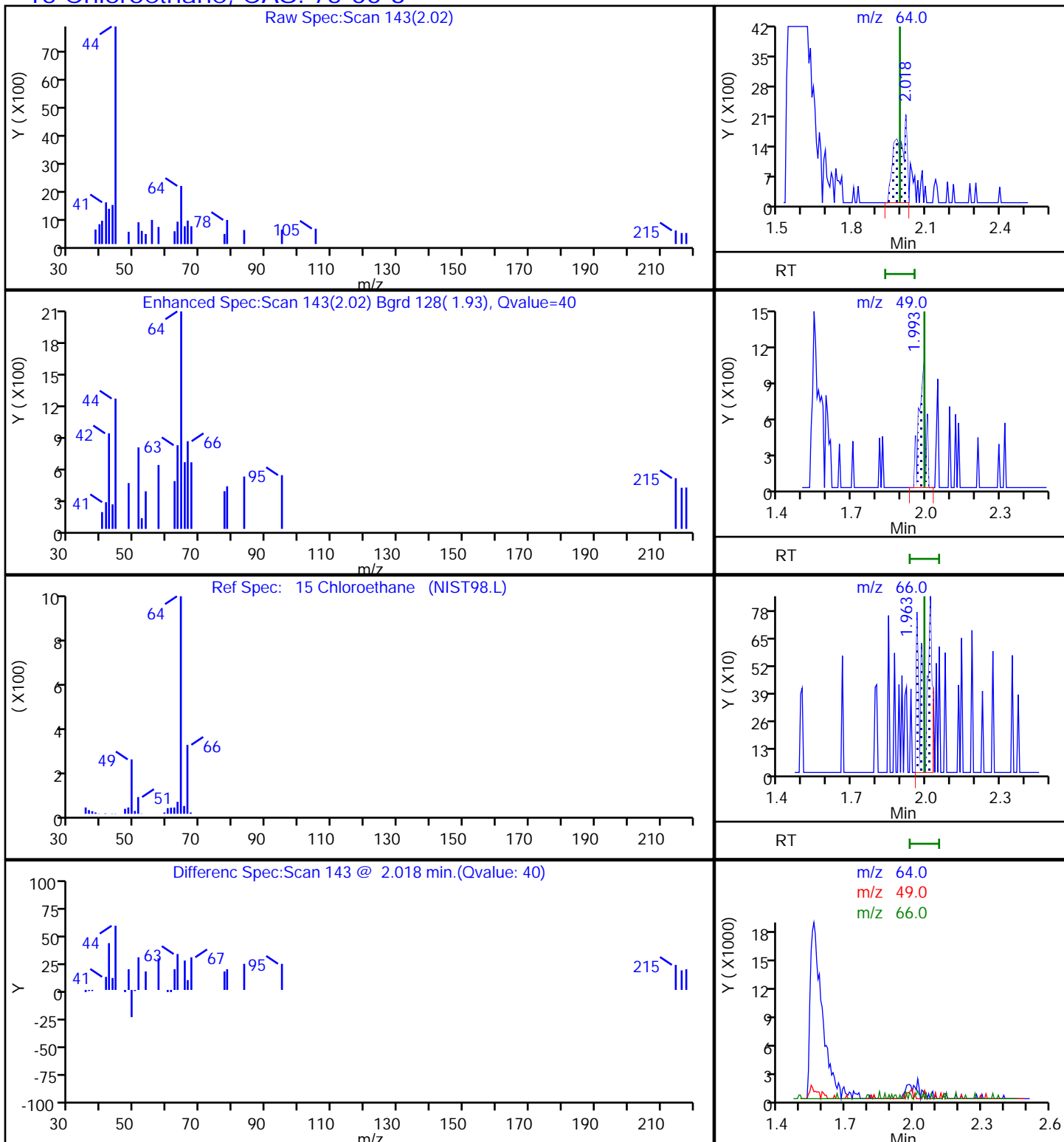
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

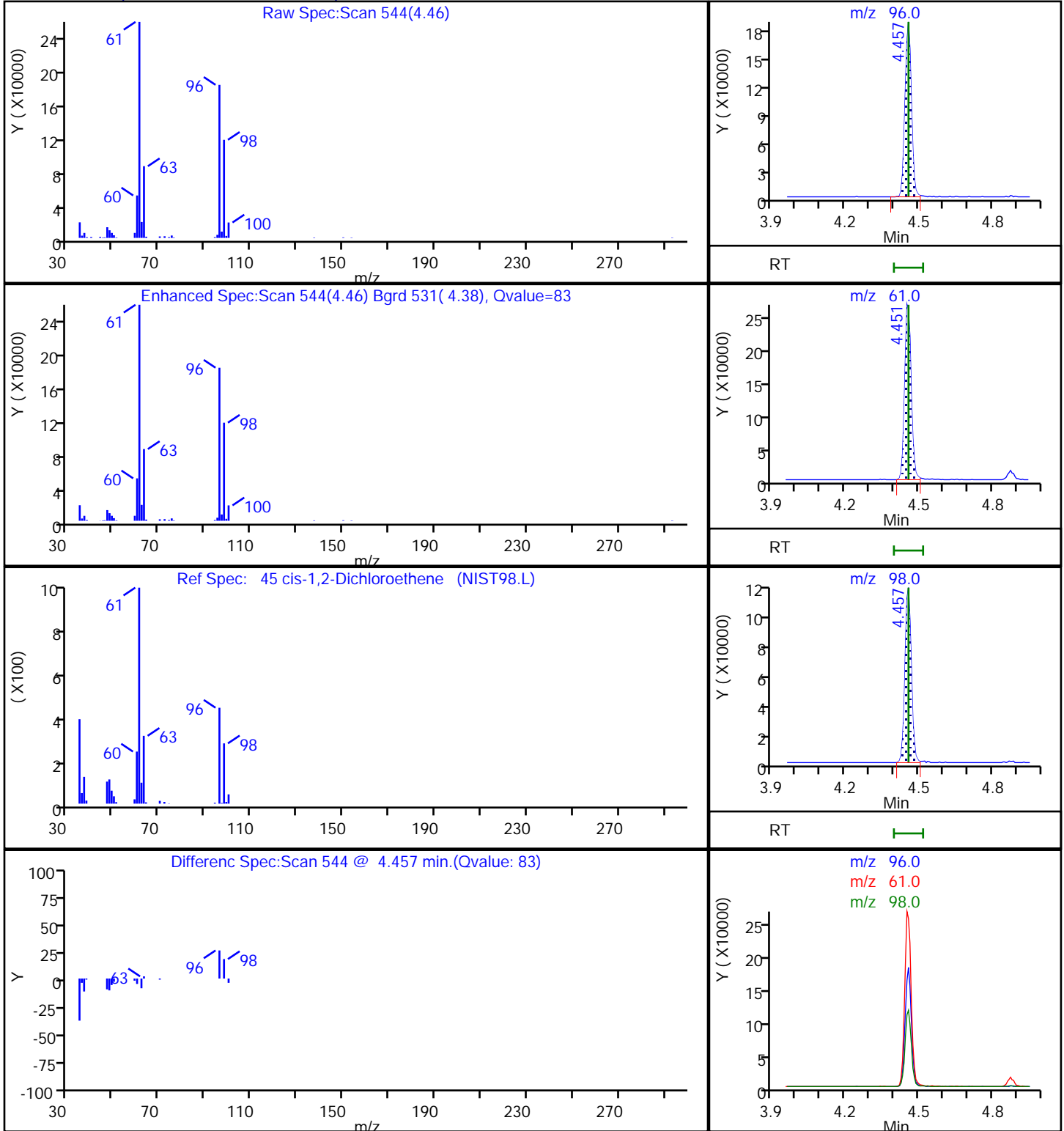
15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D
Injection Date: 21-Jun-2018 21:36:30 Instrument ID: HP5973S
Lims ID: 480-137434-H-2 Lab Sample ID: 480-137434-2
Client ID: LAB-SBW16
Operator ID: KN ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

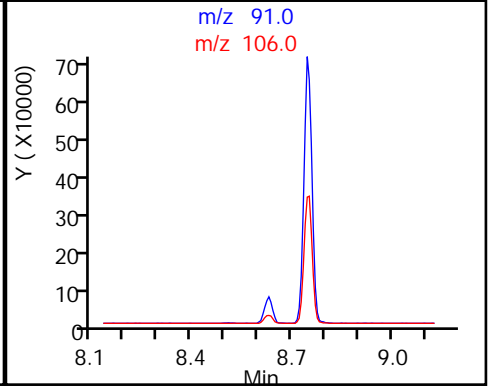
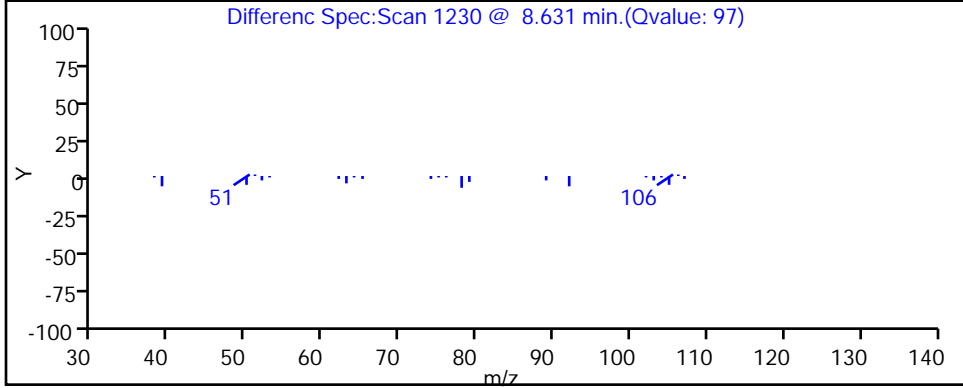
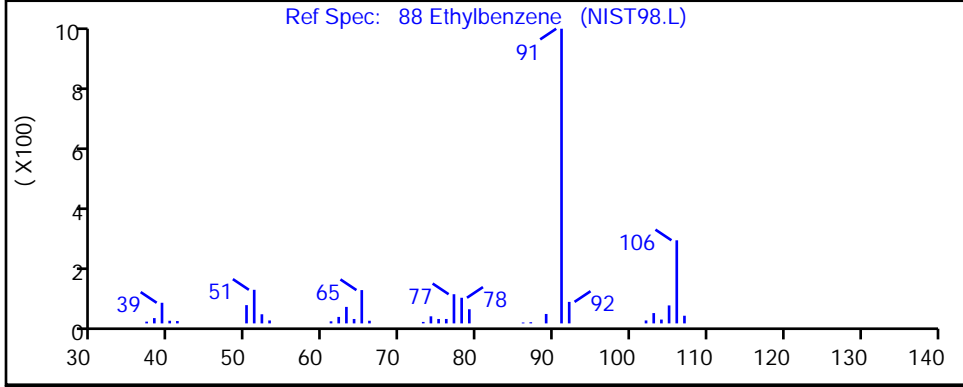
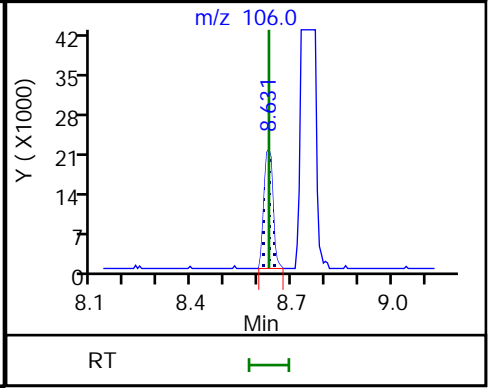
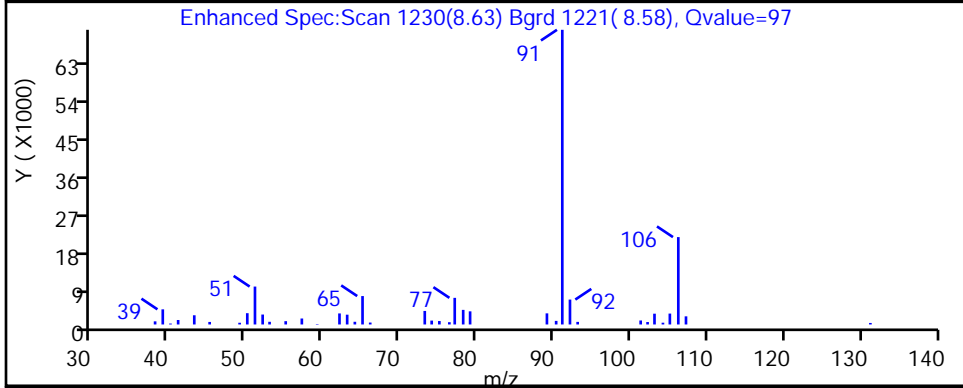
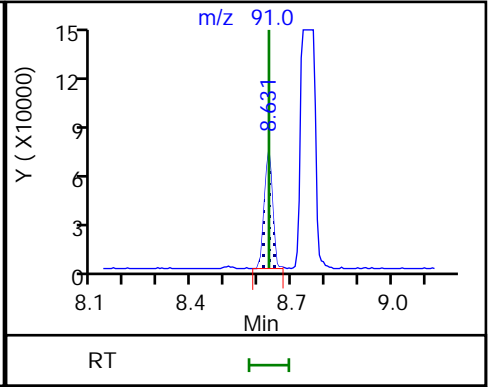
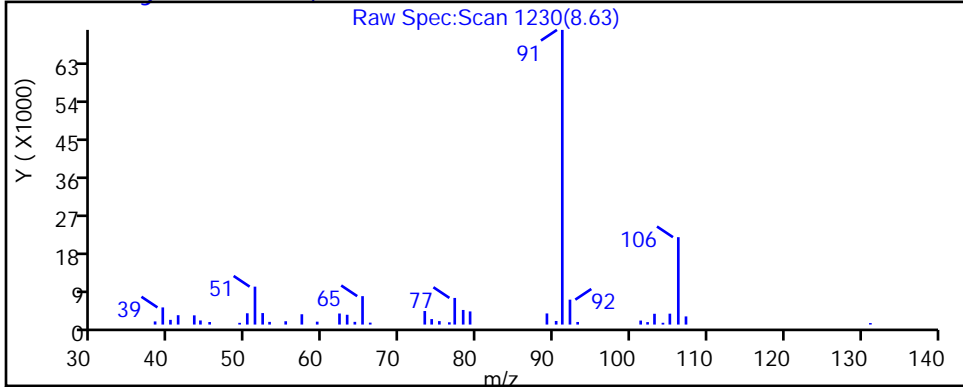
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

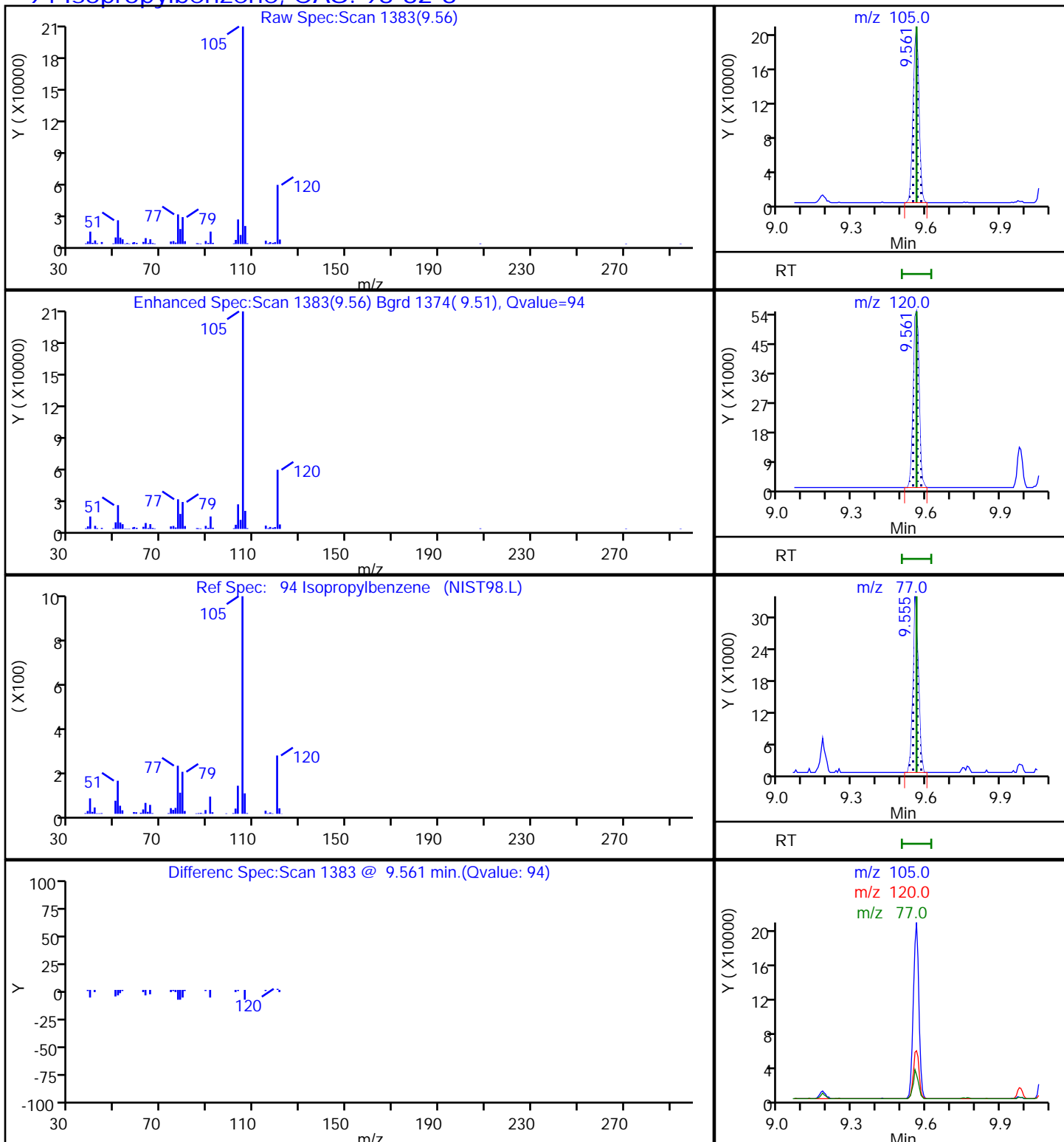
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

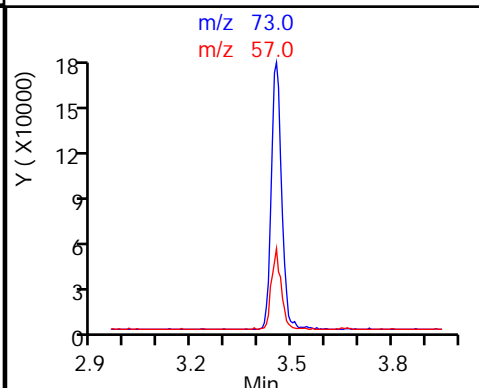
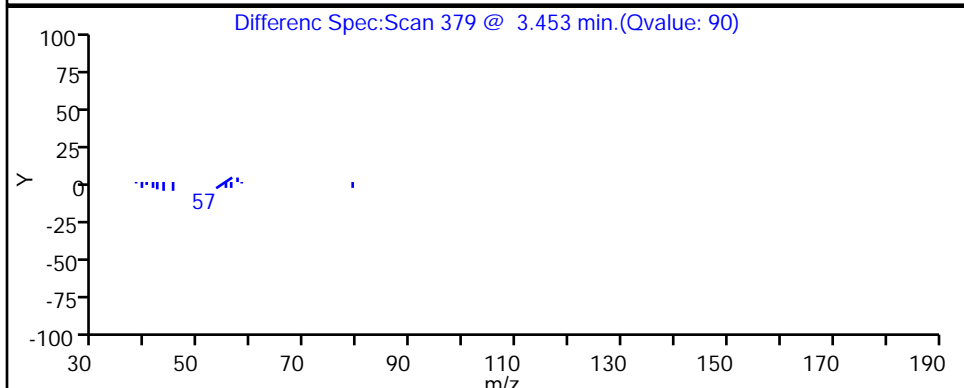
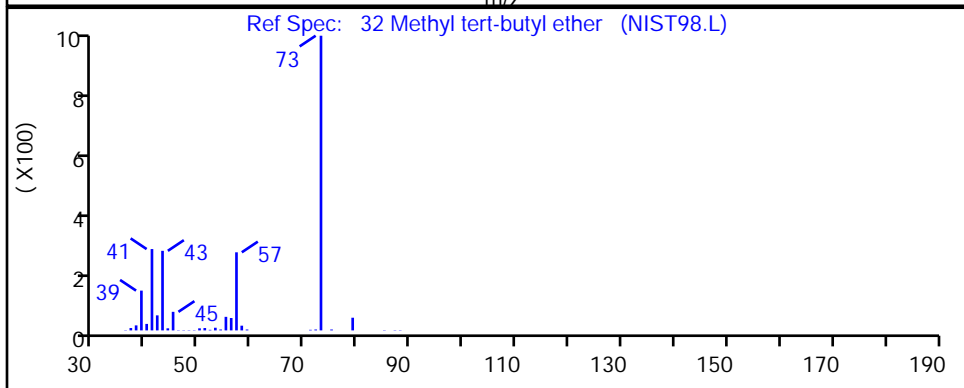
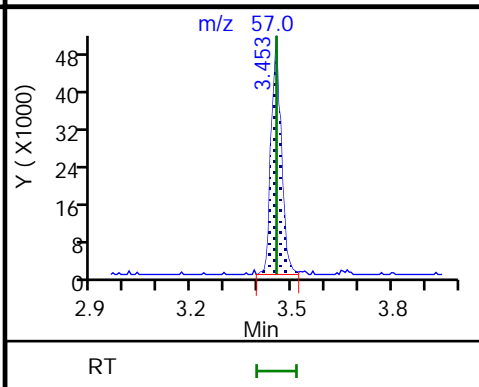
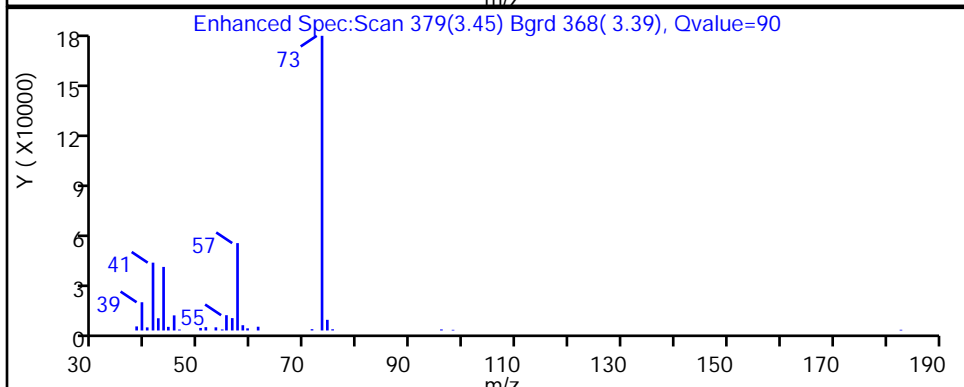
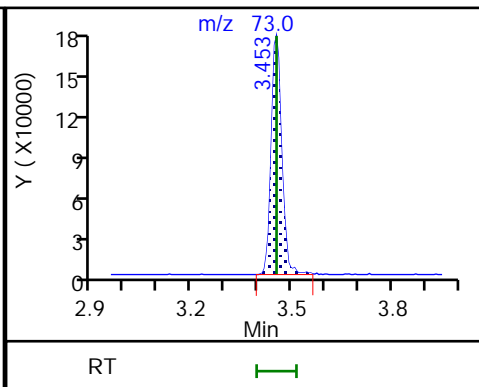
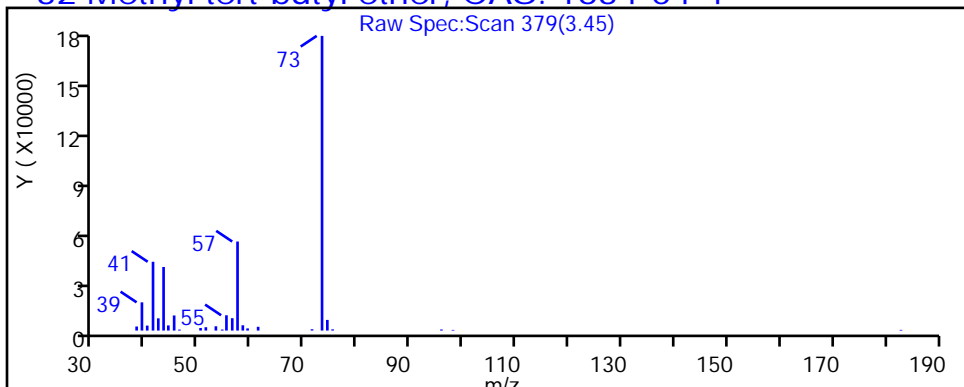
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

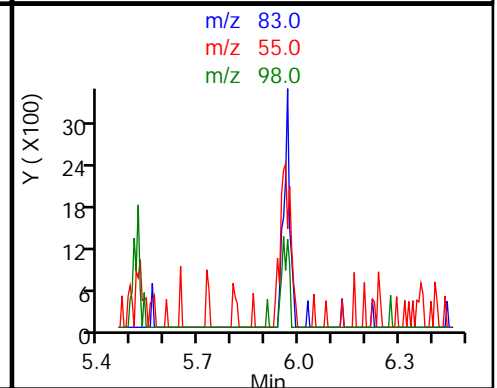
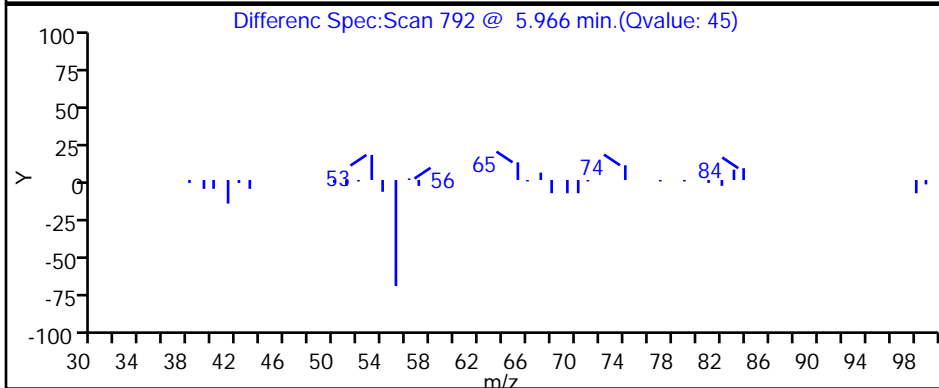
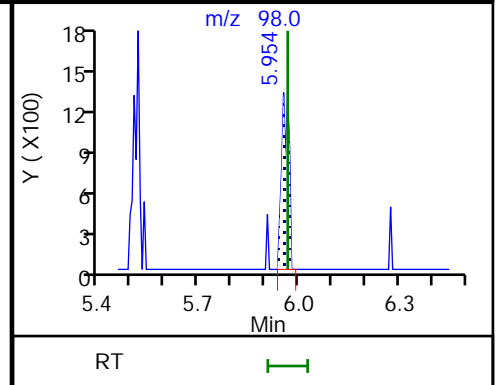
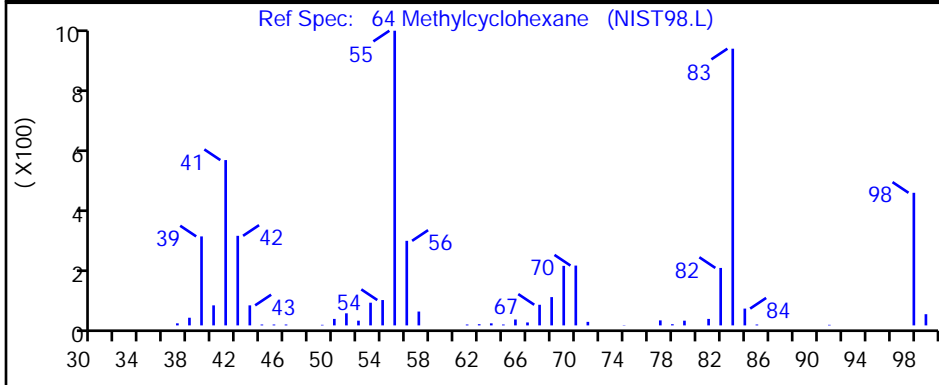
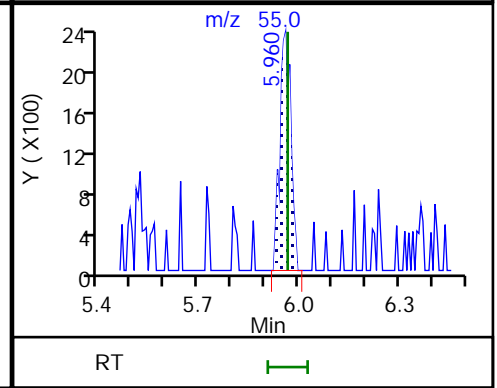
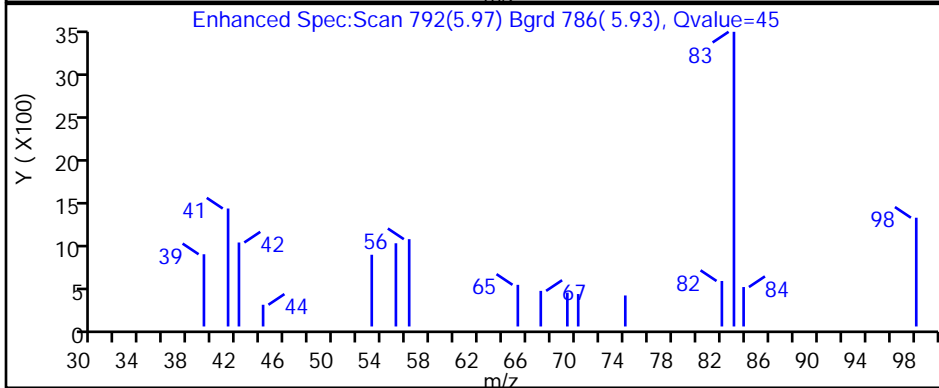
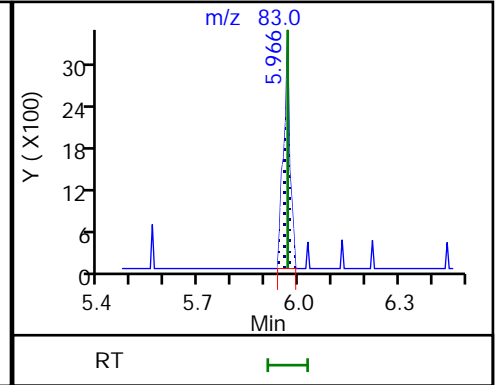
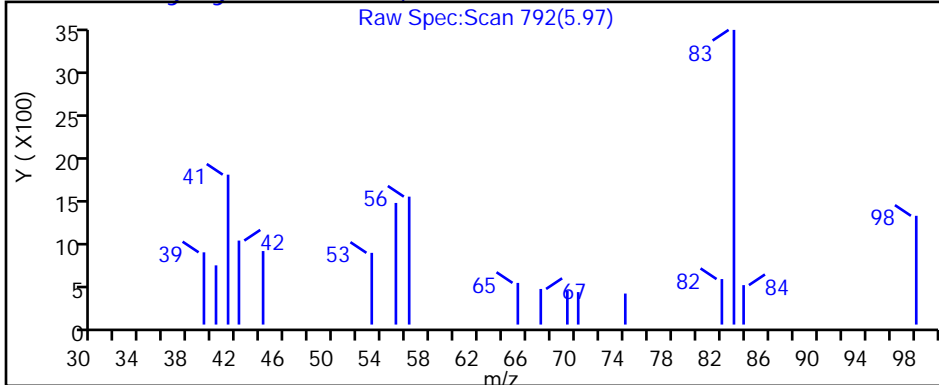
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

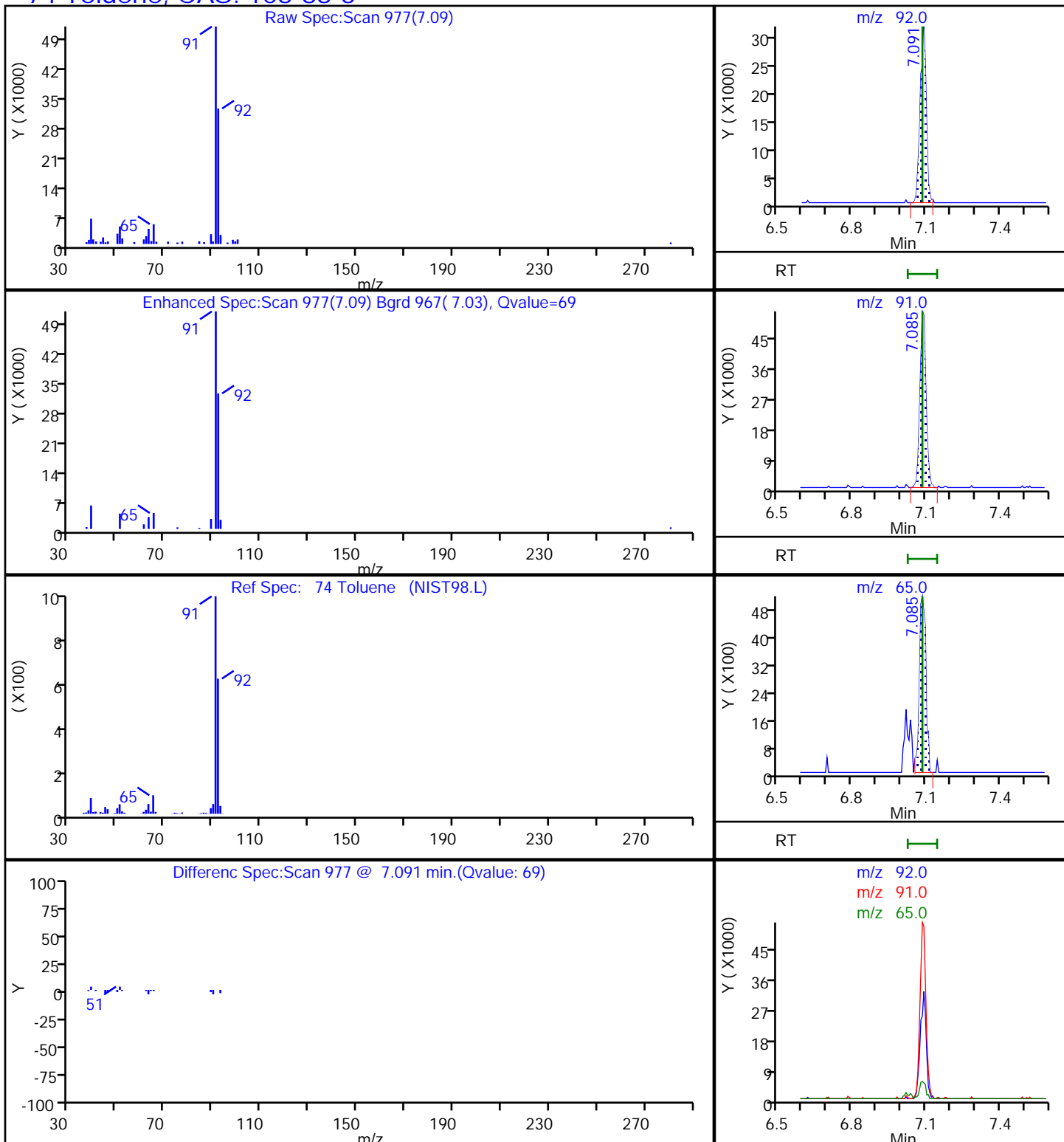
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

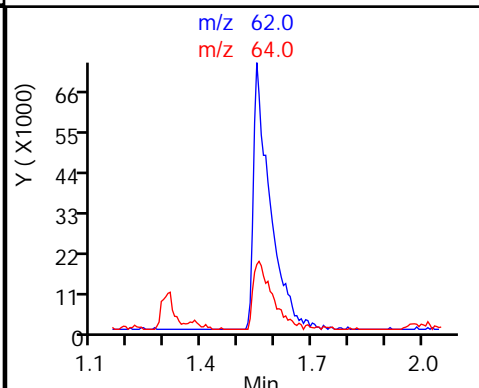
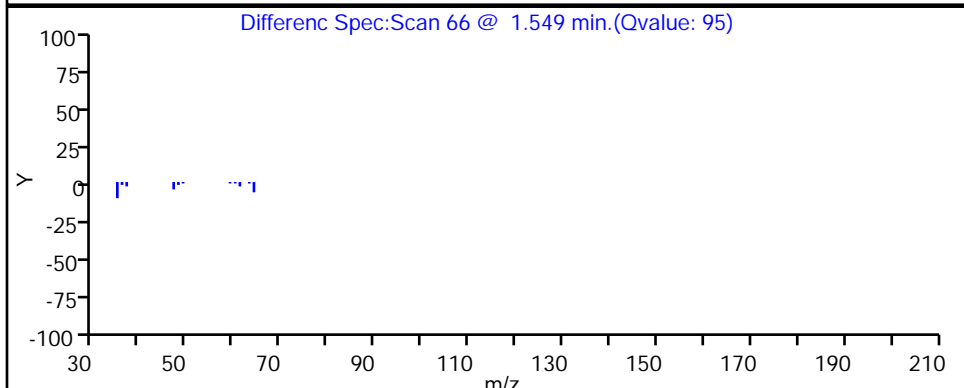
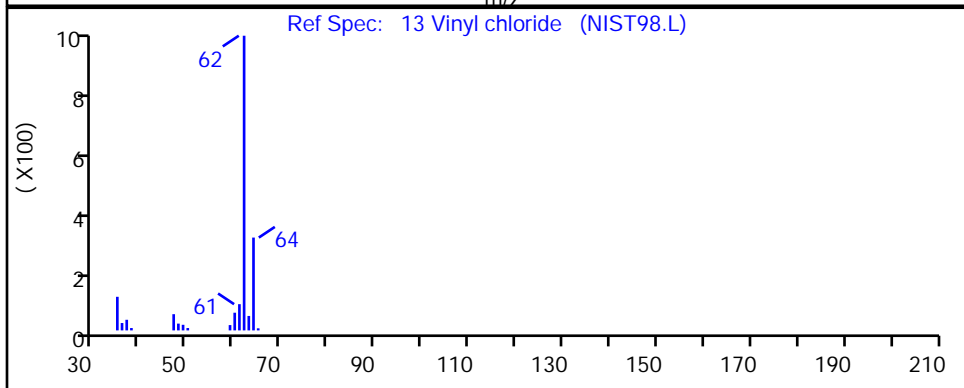
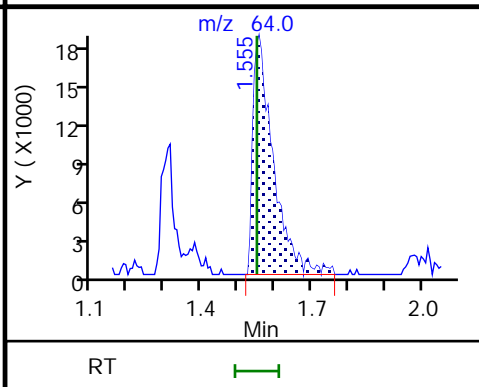
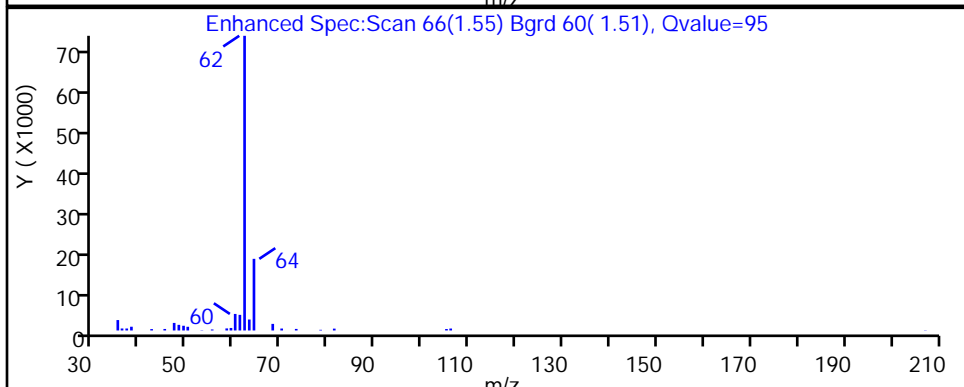
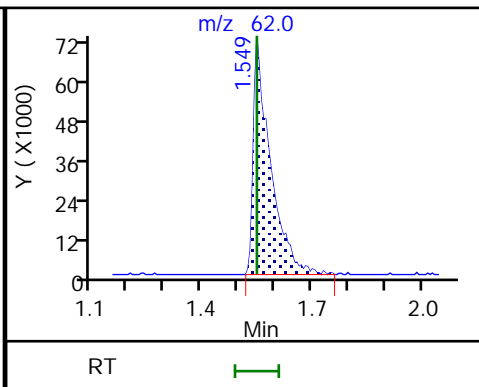
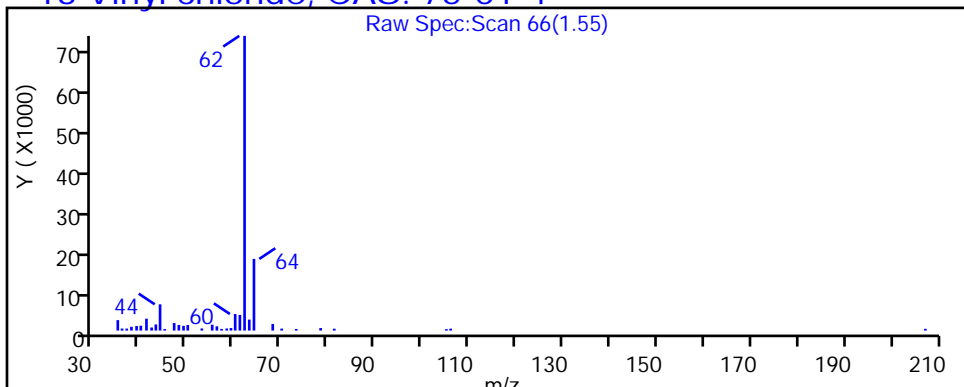
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

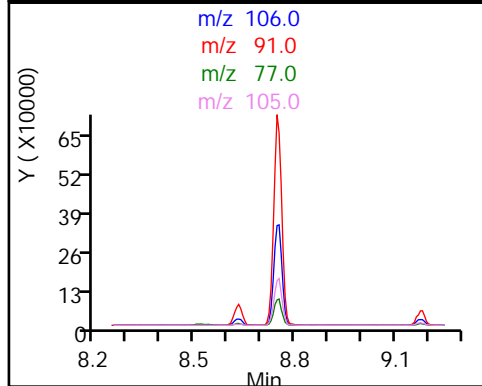
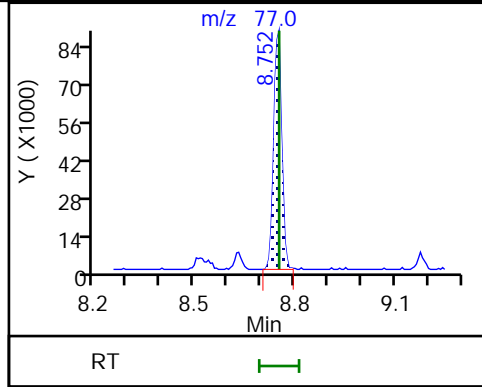
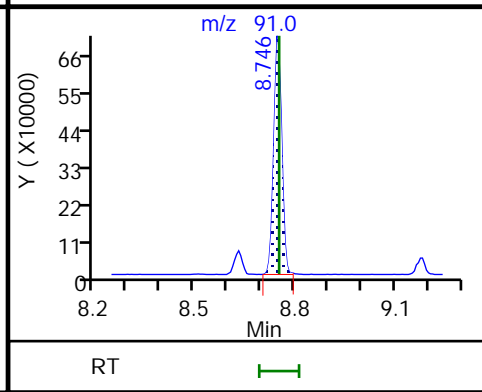
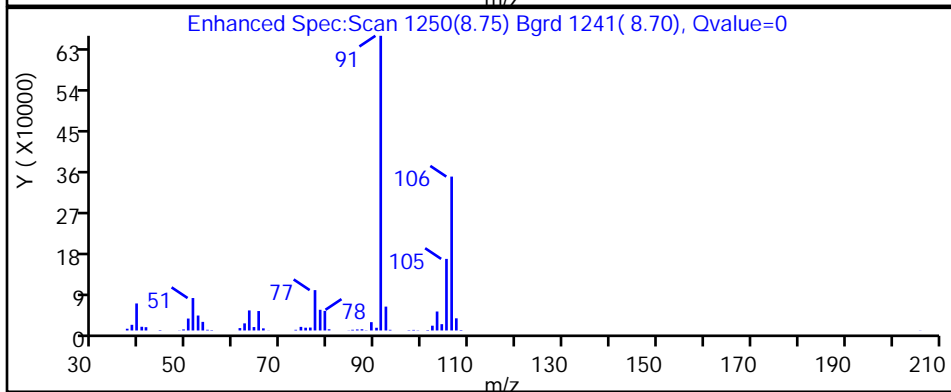
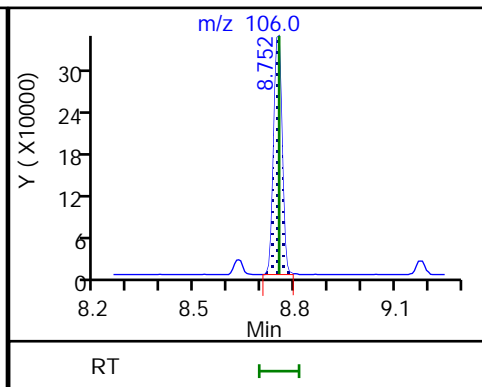
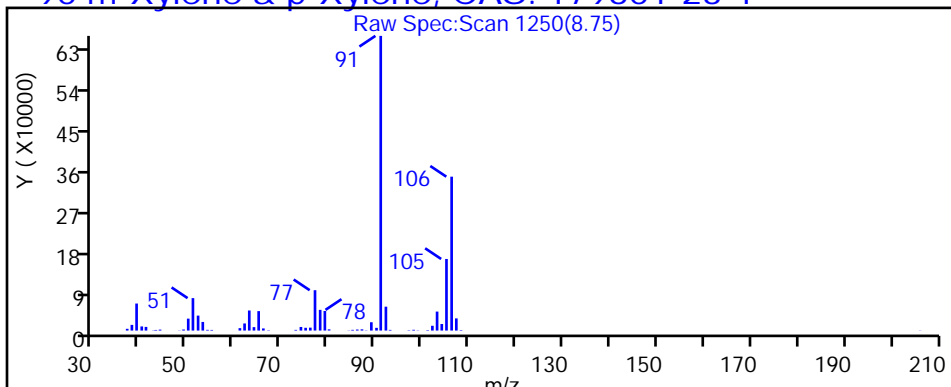
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

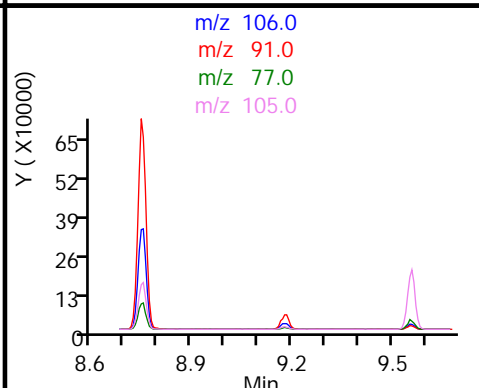
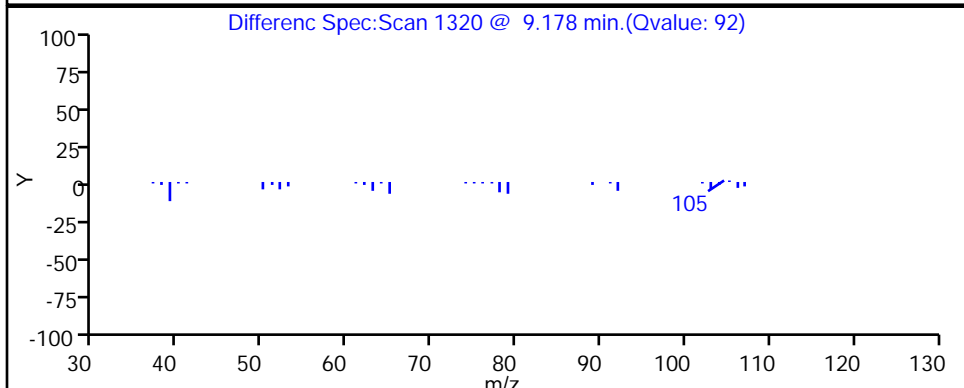
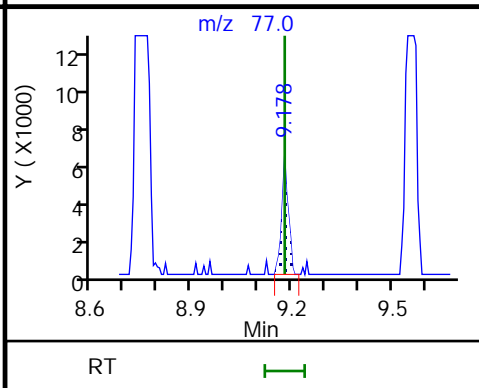
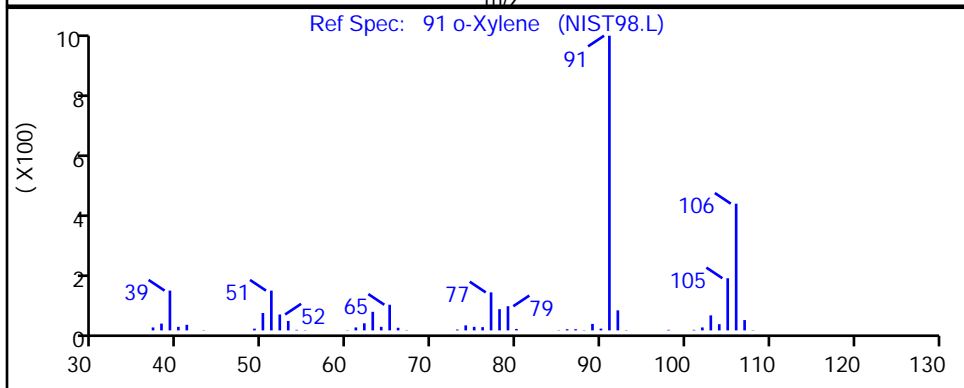
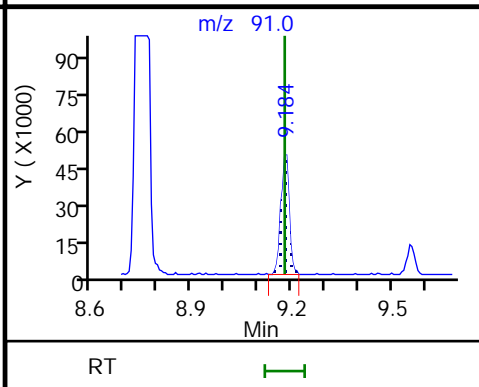
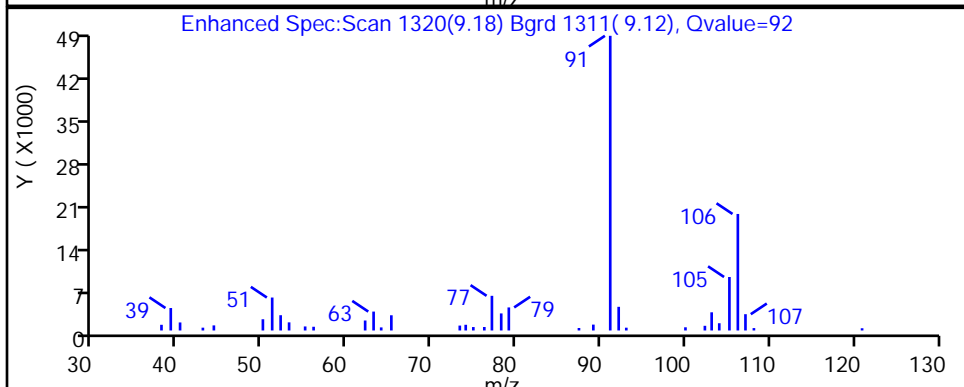
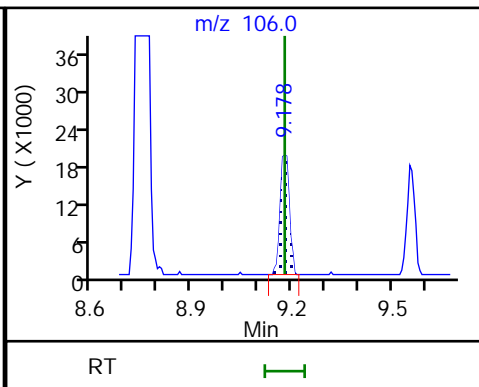
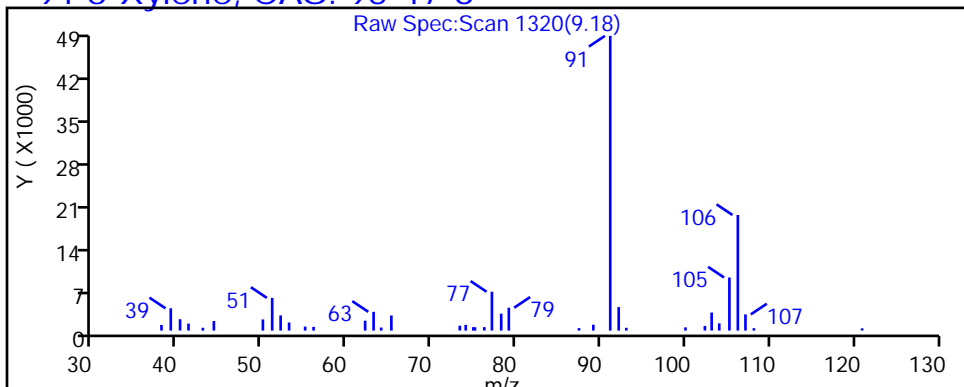
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

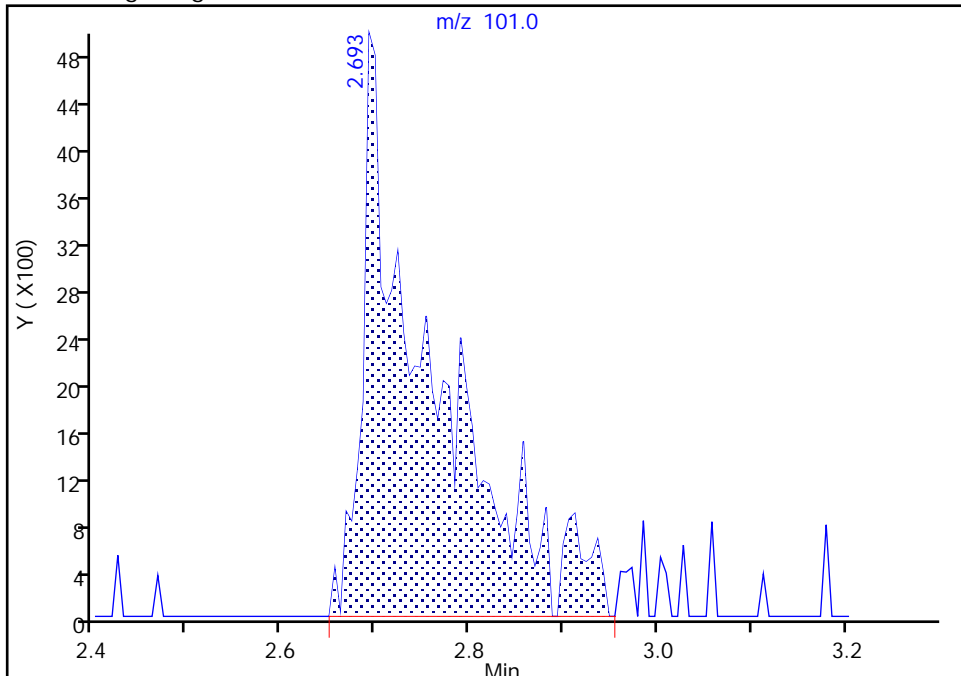
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D
Injection Date: 21-Jun-2018 21:36:30 Instrument ID: HP5973S
Lims ID: 480-137434-H-2 Lab Sample ID: 480-137434-2
Client ID: LAB-SBW16
Operator ID: KN ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

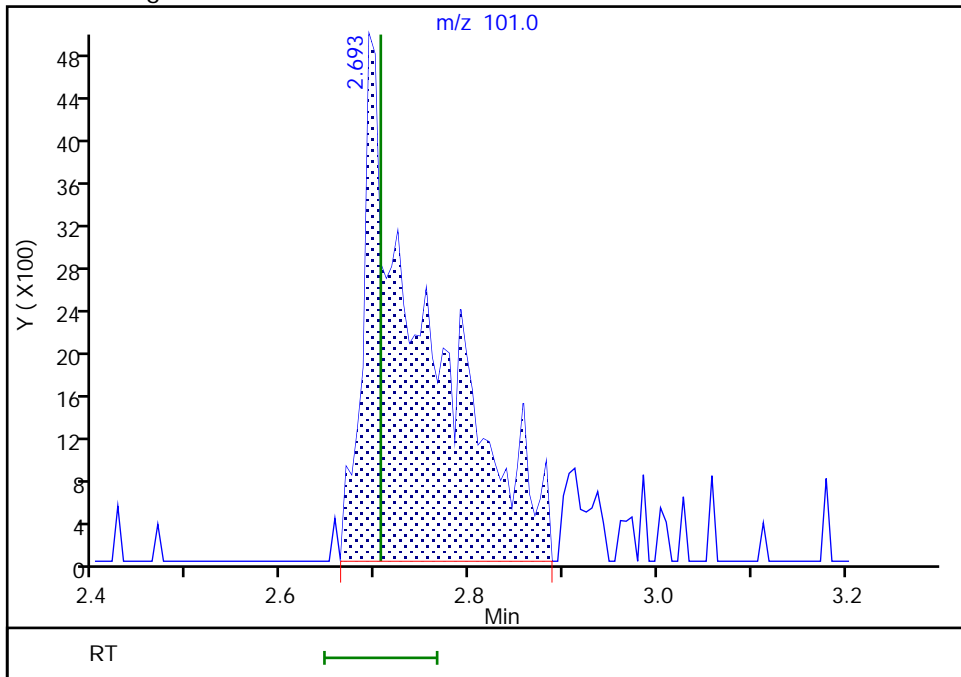
RT: 2.69
Area: 24949
Amount: 3.456504
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 23047
Amount: 3.221279
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 14:31:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: S-8260

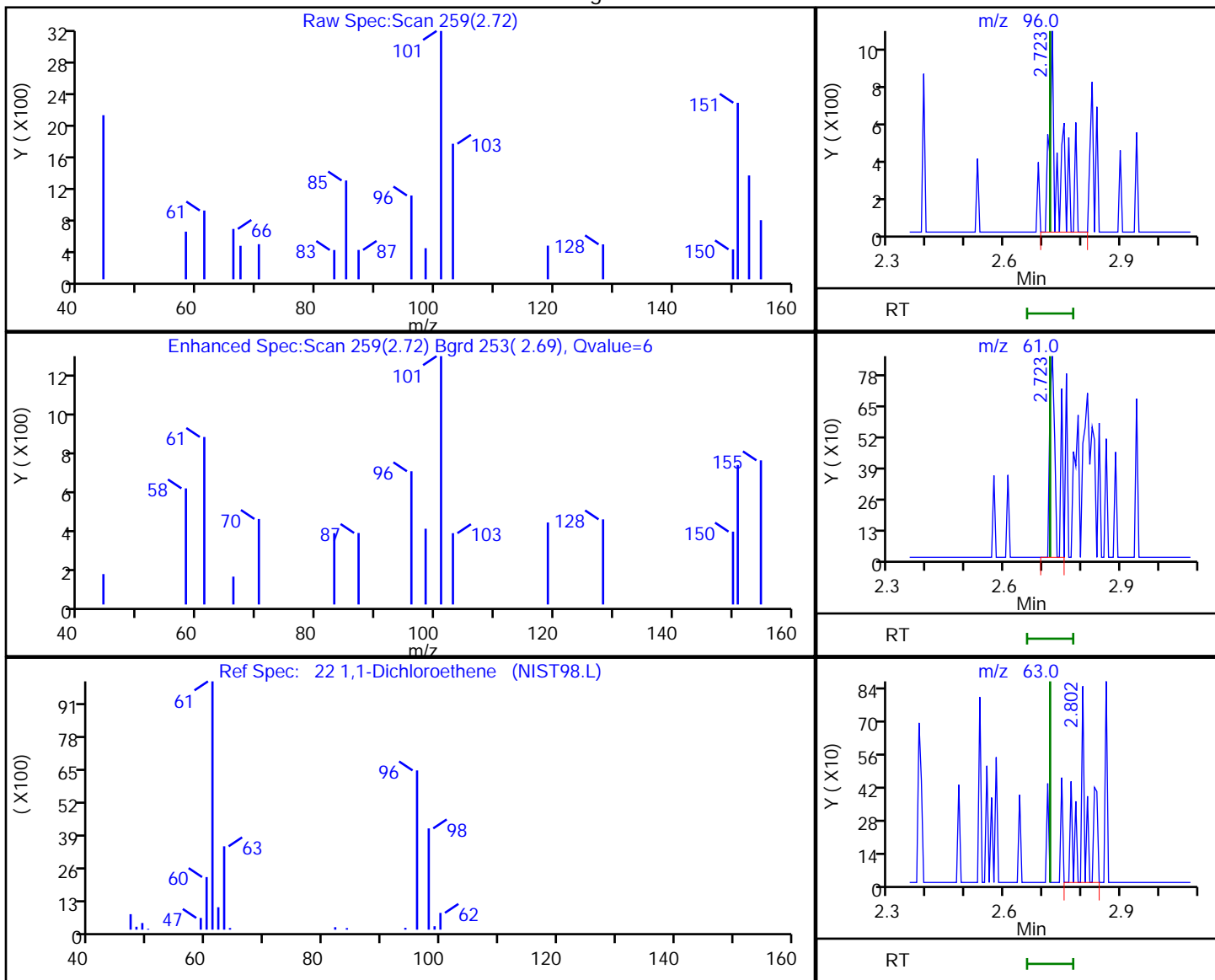
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
2.72	96.00	1624	0.180664
2.72	61.00	1008	
2.80	63.00	1024	

Reviewer: carrolln, 22-Jun-2018 14:32:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

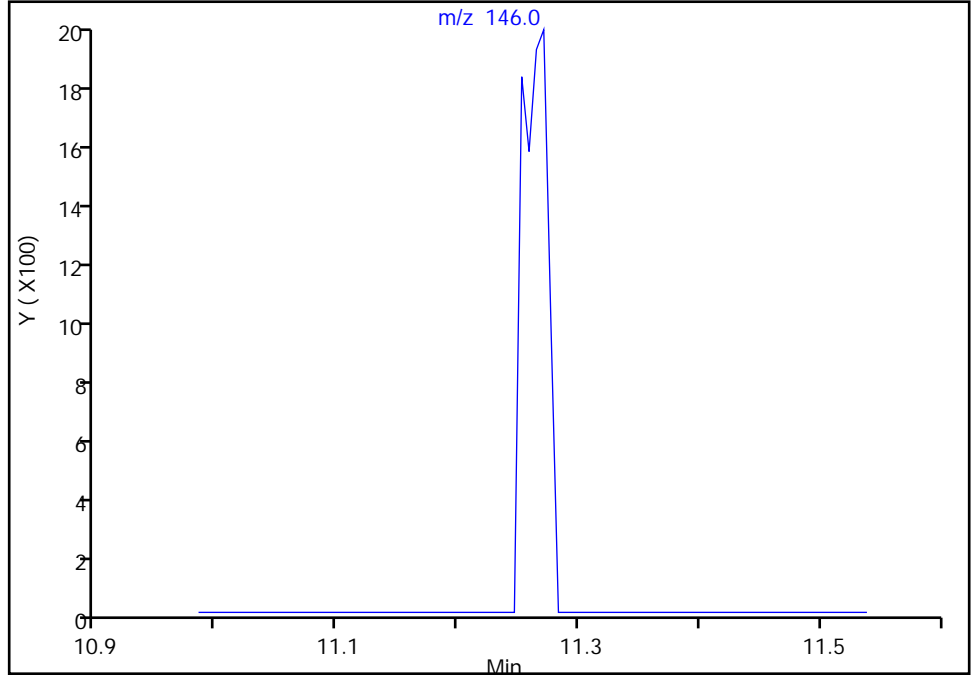
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D
Injection Date: 21-Jun-2018 21:36:30 Instrument ID: HP5973S
Lims ID: 480-137434-H-2 Lab Sample ID: 480-137434-2
Client ID: LAB-SBW16
Operator ID: KN ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1

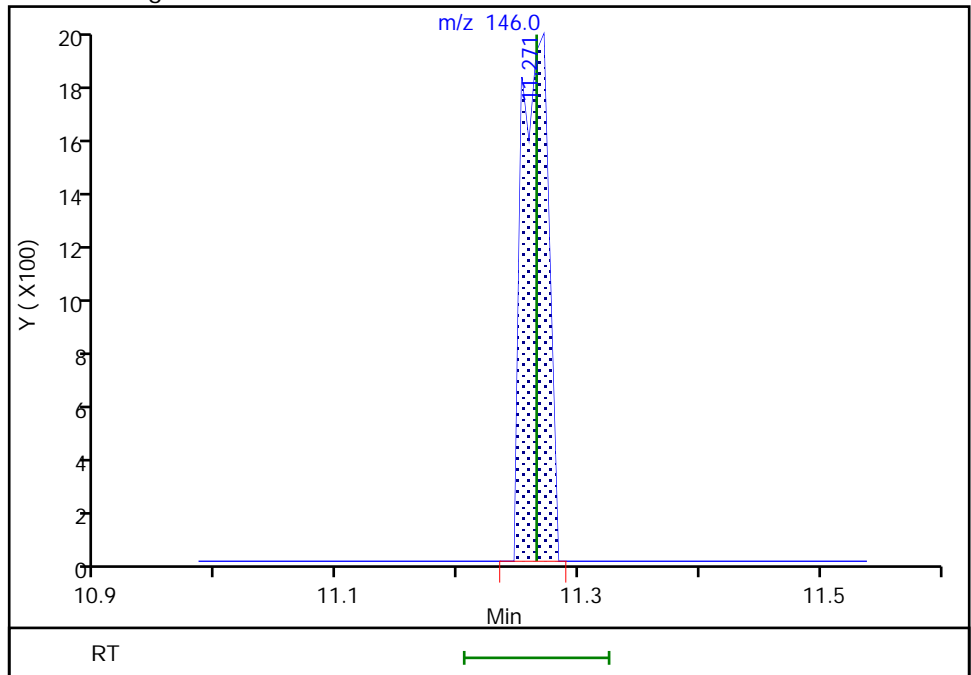
Signal: 1

Not Detected
Expected RT: 11.26

Processing Integration Results



Manual Integration Results



RT: 11.27
Area: 3028
Amount: 0.137144
Amount Units: ug/L

Reviewer: carrolln, 22-Jun-2018 14:35:49
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

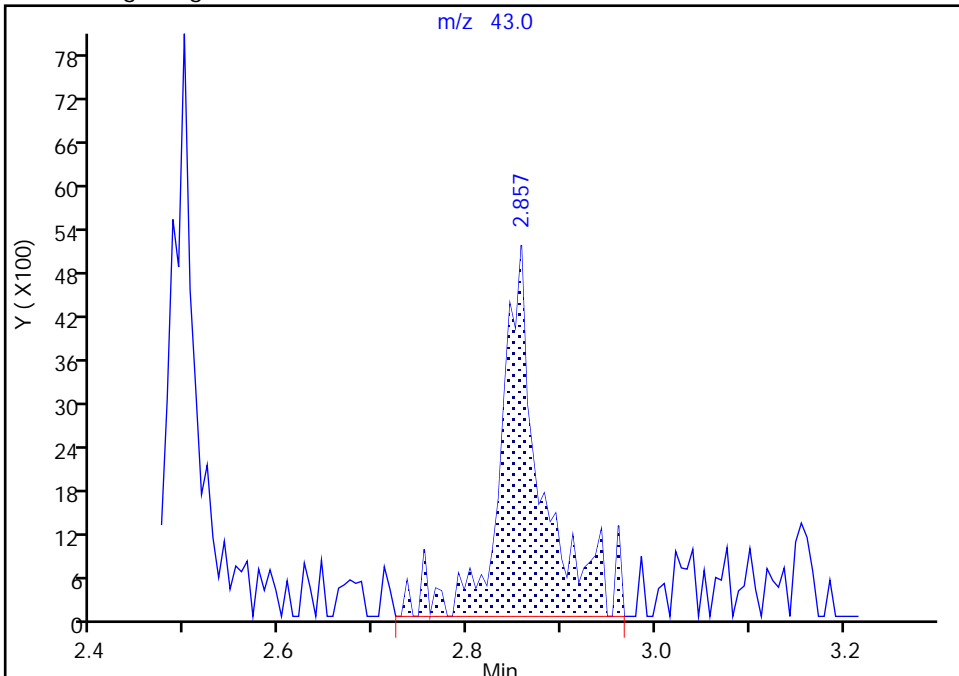
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Injection Date:	21-Jun-2018 21:36:30	Instrument ID:	HP5973S		
Lims ID:	480-137434-H-2	Lab Sample ID:	480-137434-2		
Client ID:	LAB-SBW16				
Operator ID:	KN	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

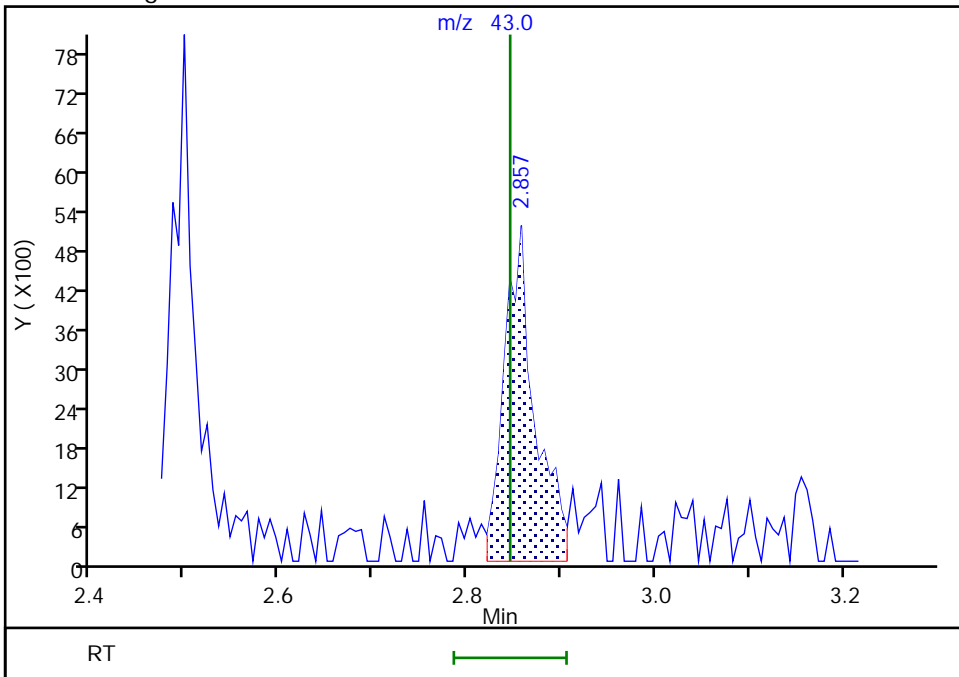
RT: 2.86
Area: 15615
Amount: 3.988253
Amount Units: ug/L

Processing Integration Results



RT: 2.86
Area: 11622
Amount: 2.968394
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 14:33:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 82 of 473

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

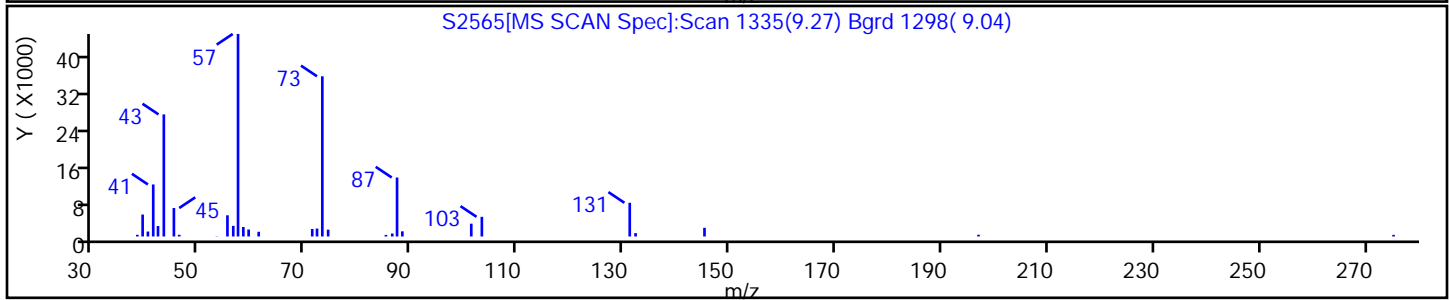
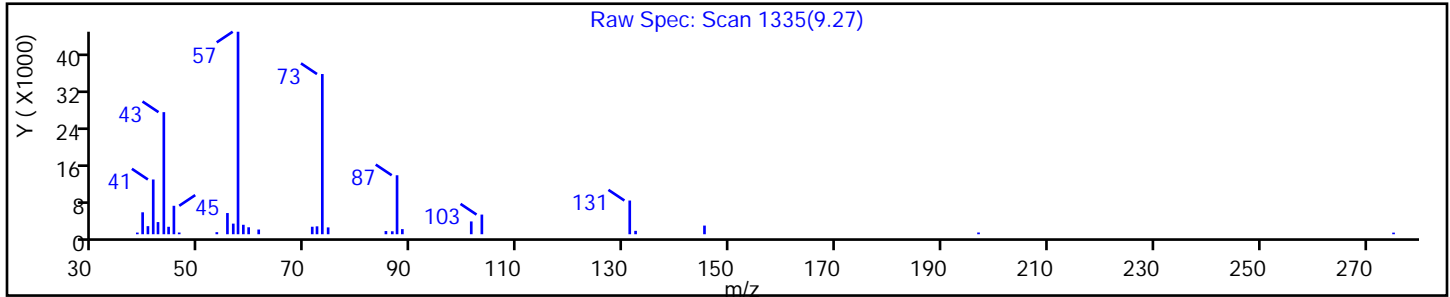
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

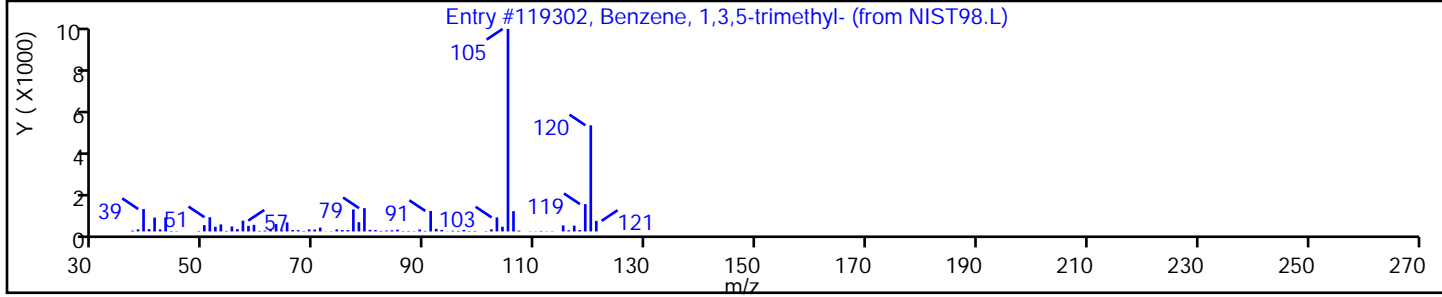
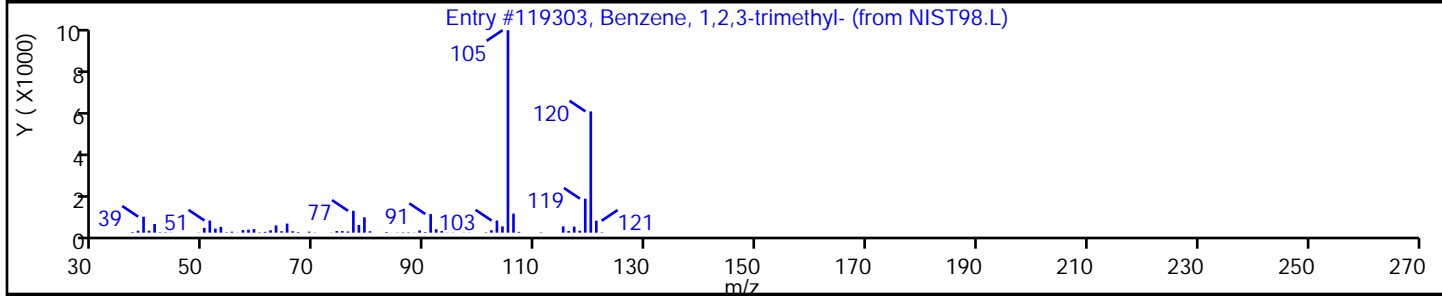
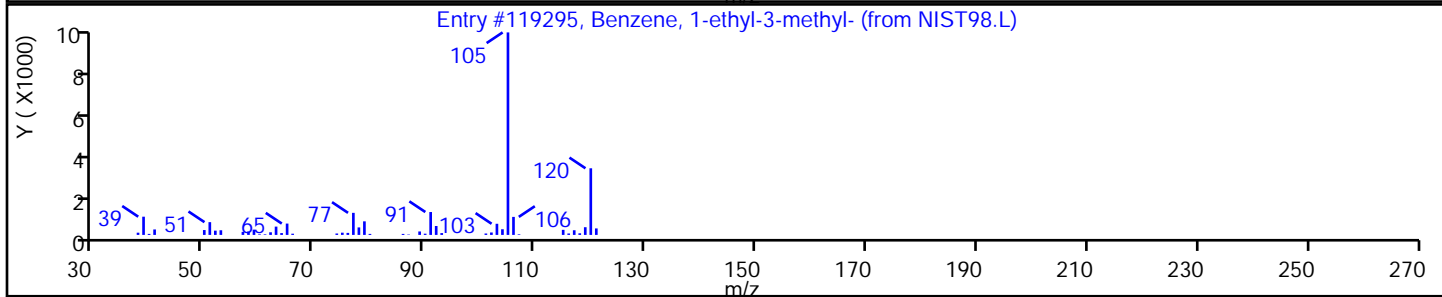
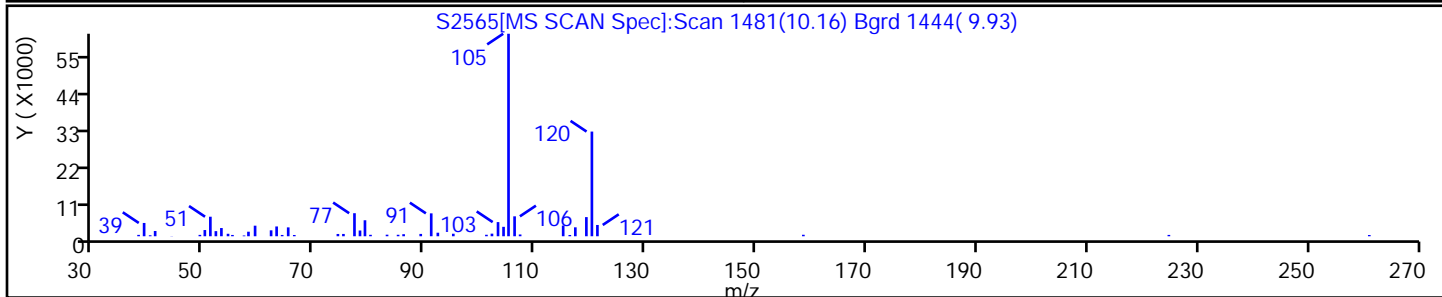
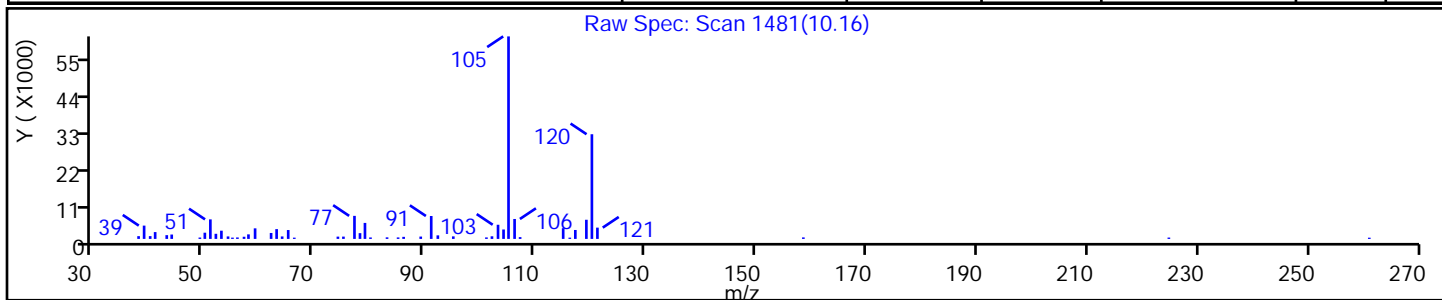
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST98.L	119295	C9H12	120	91
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	93
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119302	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

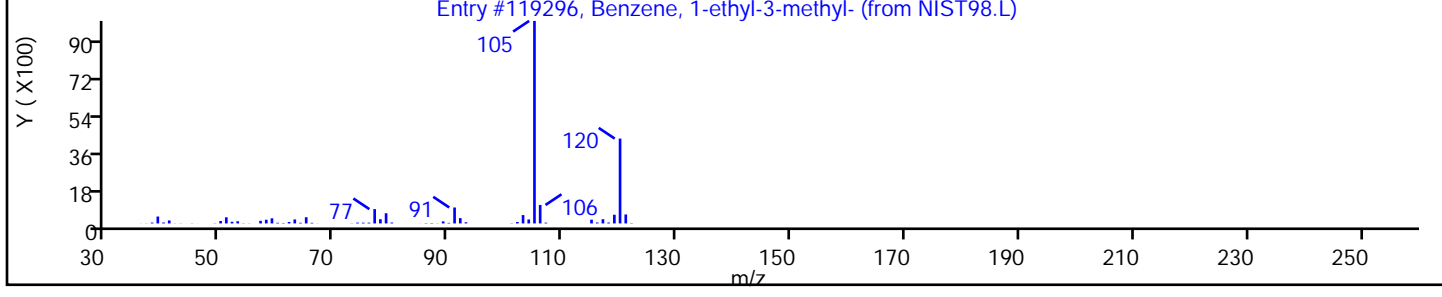
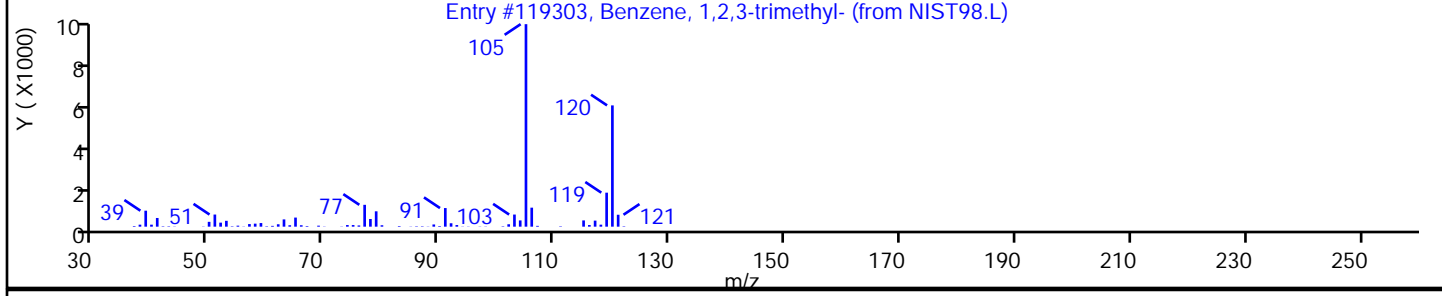
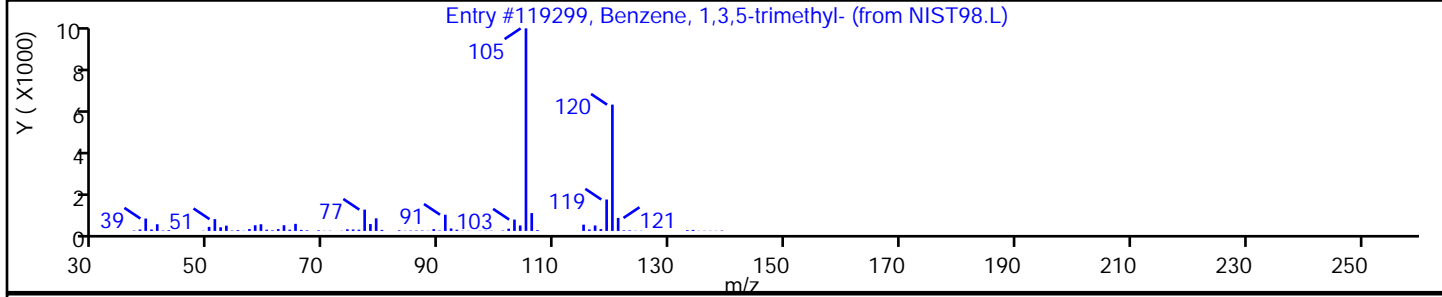
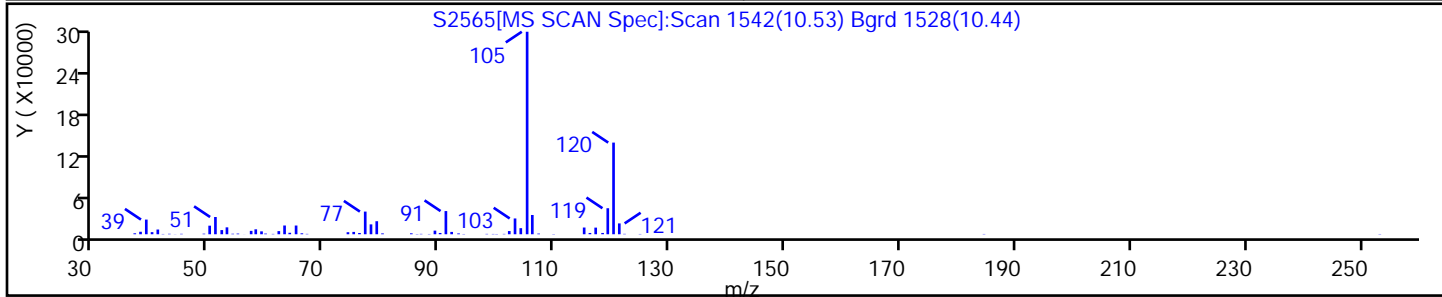
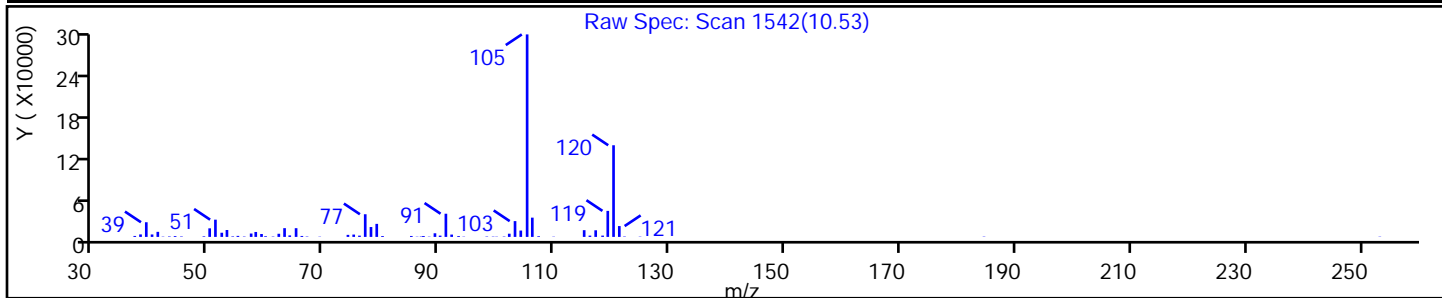
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST98.L	119296	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

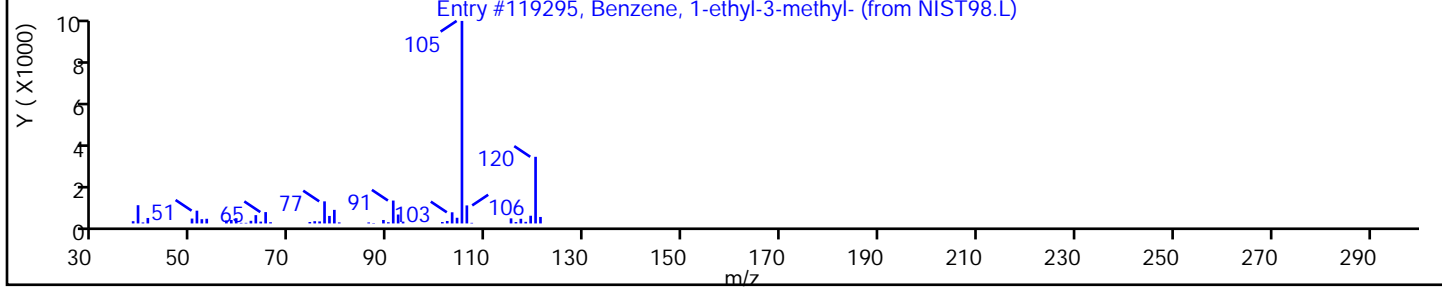
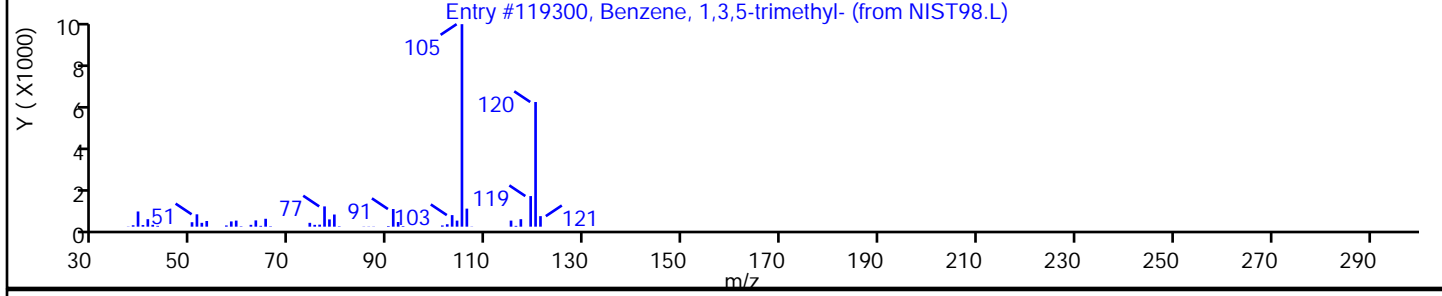
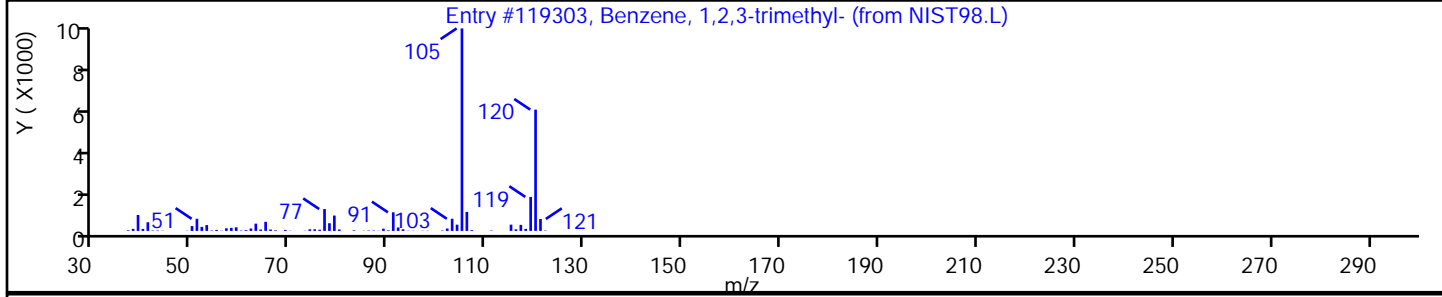
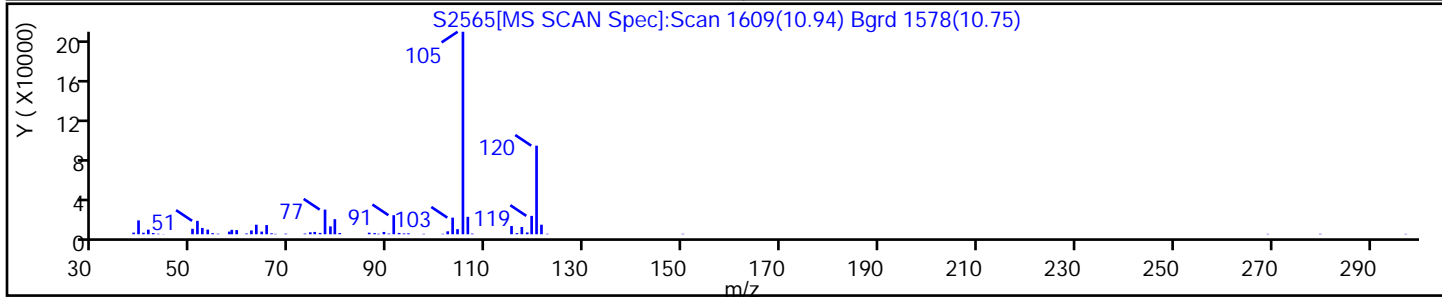
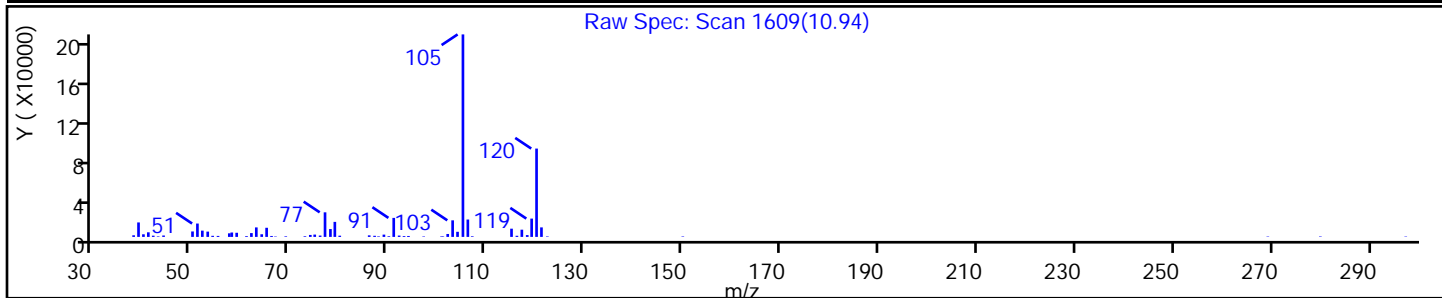
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	94
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119300	C9H12	120	91
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST98.L	119295	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2565.D

Injection Date: 21-Jun-2018 21:36:30

Instrument ID: HP5973S

Lims ID: 480-137434-H-2

Lab Sample ID: 480-137434-2

Client ID: LAB-SBW16

Operator ID: KN

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

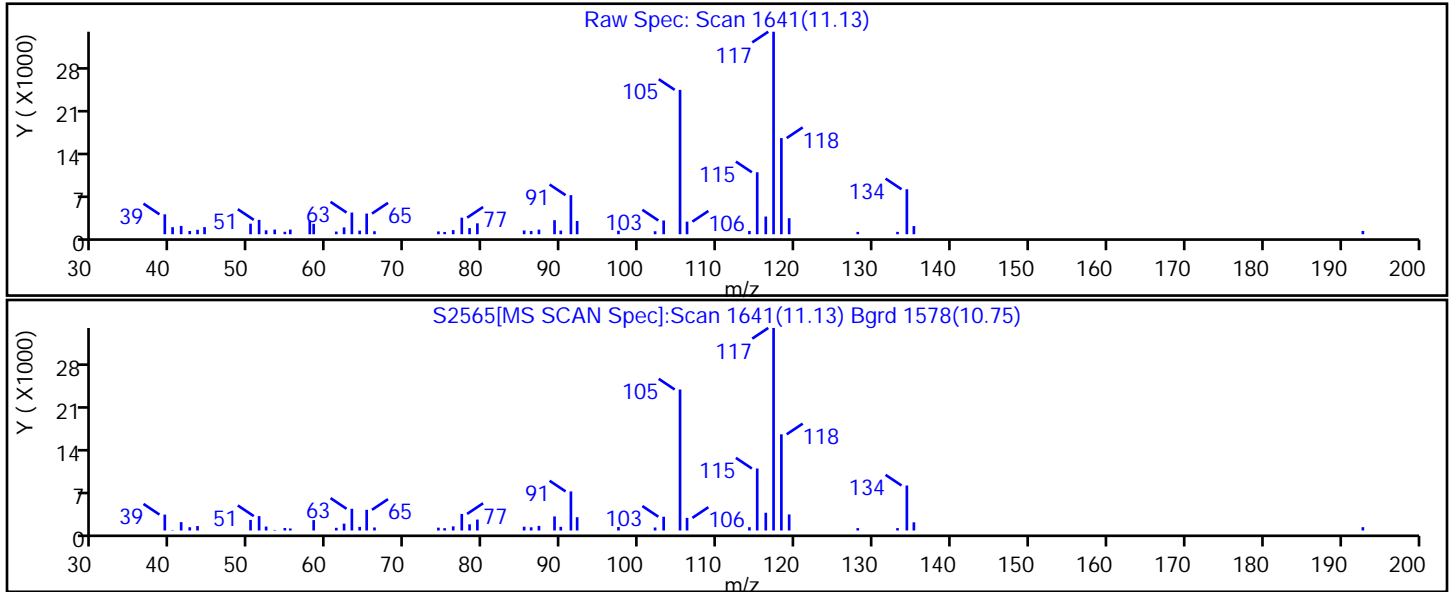
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

No Library Matches Found above the Threshold: 85



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137434-3
 Matrix: Water Lab File ID: S2566.D
 Analysis Method: 8260C Date Collected: 06/13/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	16		5.0	1.6
75-34-3	1,1-Dichloroethane	34		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	21	J	50	15
71-43-2	Benzene	23		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	3.9	J	5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	140		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	13		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	37		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137434-3
 Matrix: Water Lab File ID: S2566.D
 Analysis Method: 8260C Date Collected: 06/13/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	53		5.0	0.80
108-87-2	Methylcyclohexane	1.3	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	10		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	83		5.0	4.5
1330-20-7	Xylenes, Total	160		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137434-3
 Matrix: Water Lab File ID: S2566.D
 Analysis Method: 8260C Date Collected: 06/13/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 21:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 5 TIC Result Total: 160

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	9.27	15	T J	
526-73-8	Benzene, 1,2,3-trimethyl-	10.16	15	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.53	69	T J N	97%
95-63-6	Benzene, 1,2,4-trimethyl-	10.94	46	T J N	95%
	Unknown	11.13	15	T J	

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D
 Lims ID: 480-137434-C-3
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:59:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137434-c-3
 Misc. Info.: 480-0072528-015
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 15:18:17 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: carrolln

Date: 22-Jun-2018 15:18:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	204374	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	84	401656	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	352780	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	66	239911	24.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	159047	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	988231	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	297879	24.8	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62	1.549	1.549	0.000	97	230881	16.6	
14 Bromomethane	94		1.890				ND	
15 Chloroethane	64	1.994	1.994	0.000	20	6600	0.7843	
17 Trichlorofluoromethane	101		2.188				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	-0.012	41	22489	3.14	M
22 1,1-Dichloroethene	96		2.718				ND	
23 Acetone	43	2.851	2.851	0.006	95	16607	4.22	M
26 Carbon disulfide	76		2.930				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.241				ND	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	90	358912	10.6	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	54	3437	0.3327	M
39 1,1-Dichloroethane	63	3.898	3.892	0.006	84	149293	6.86	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	325494	27.4	
43 2-Butanone (MEK)	43		4.494				ND	MU
50 Chloroform	83		4.768				ND	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	82	53779	3.80	
52 Cyclohexane	56		4.877				ND	U
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	74	196149	4.52	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95		5.851				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	53	4529	0.2659	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92	7.092	7.086	0.006	91	53936	2.02	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.572				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	95	120360	2.50	
90 m-Xylene & p-Xylene	106	8.746	8.752	-0.006	0	596036	30.4	
91 o-Xylene	106	9.184	9.178	0.006	93	35958	1.94	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105	9.562	9.562	0.000	95	333274	7.49	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146	11.265	11.271	0.000	39	2994	0.1391	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		32.4	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D
 Lims ID: 480-137434-C-3
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:59:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137434-c-3
 Misc. Info.: 480-0072528-015
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 15:18:17 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016
 First Level Reviewer: carrolln Date: 22-Jun-2018 15:18:17

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
Unknown								
9.269	292956	3.05	2					
10.158	275409	3.08	3	94	119303	C9H12	120	I
10.529	1238698	13.8	3	97	119299	C9H12	120	
10.936	815621	9.11	3	95	119306	C9H12	120	
Unknown								
11.131	268730	3.00	3					

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 2 Chlorobenzene-d5	8.509	2400516	25.0
* 3 1,4-Dichlorobenzene-d4	10.888	2238954	25.0

QC Flag Legend

Processing Flags

Review Flags

I - User Selected Library Match

Reagents:

S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Worklist Smp#: 15

Client ID: DUPE

Purge Vol: 5.000 mL

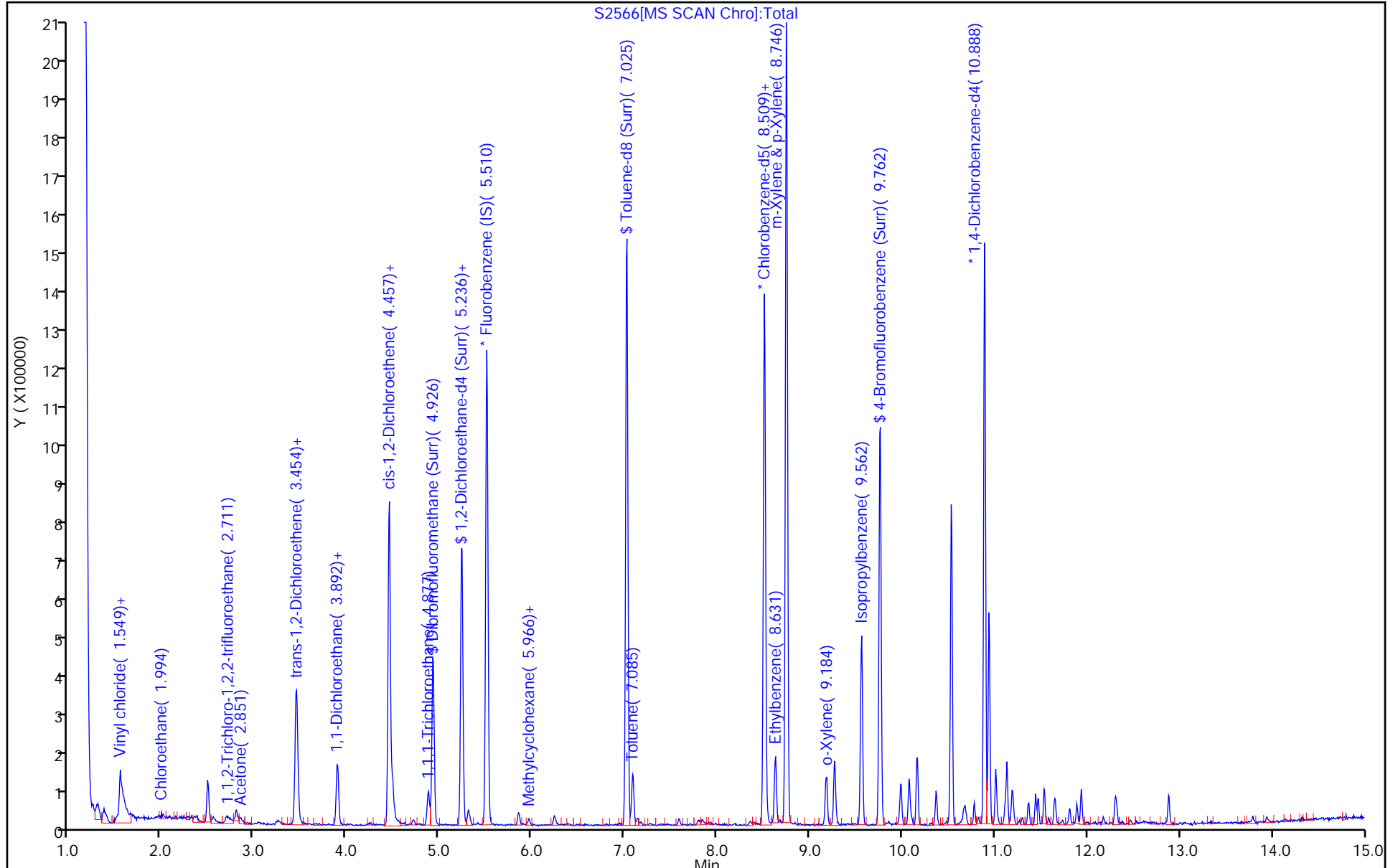
Dil. Factor: 5.0000

ALS Bottle#: 14

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

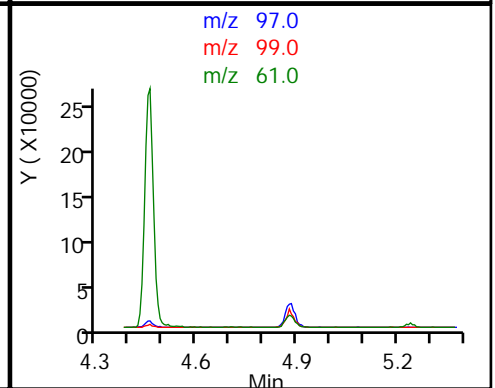
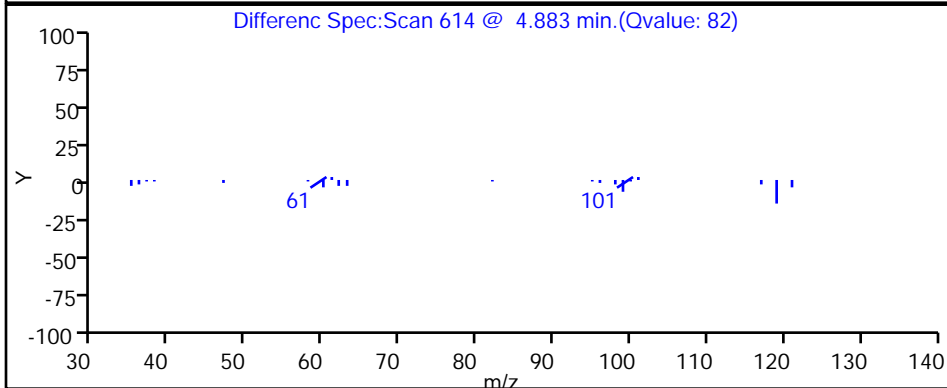
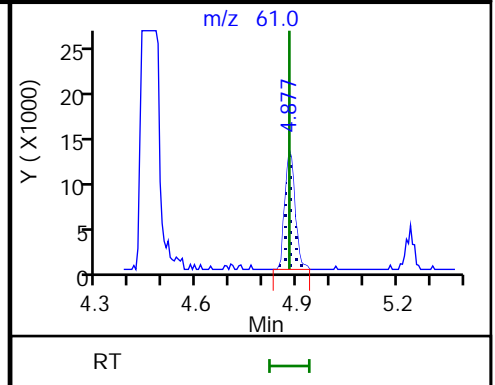
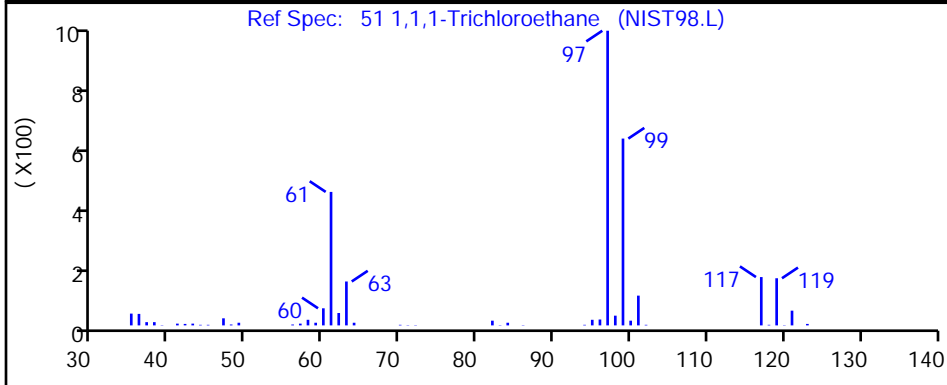
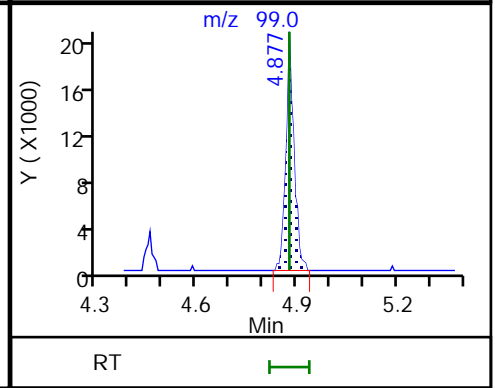
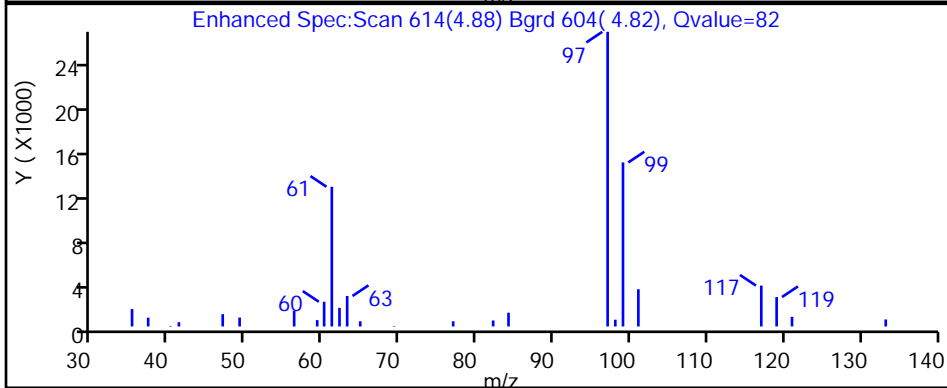
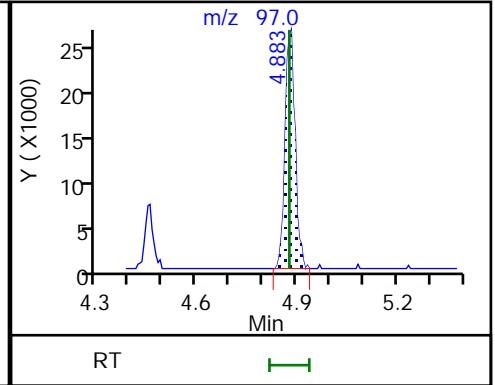
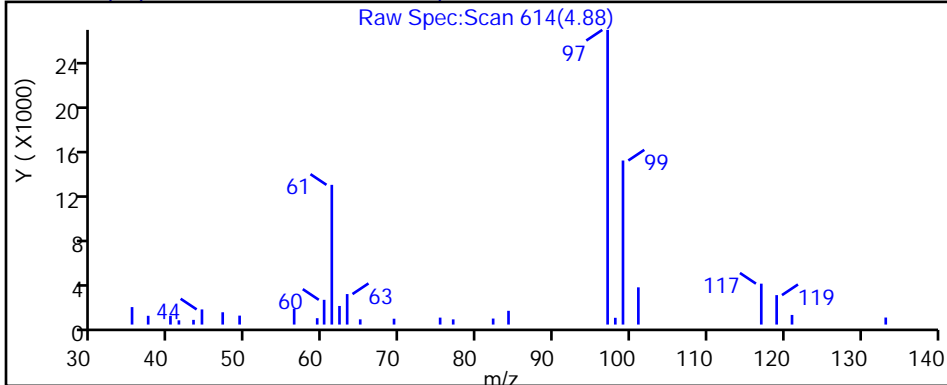
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

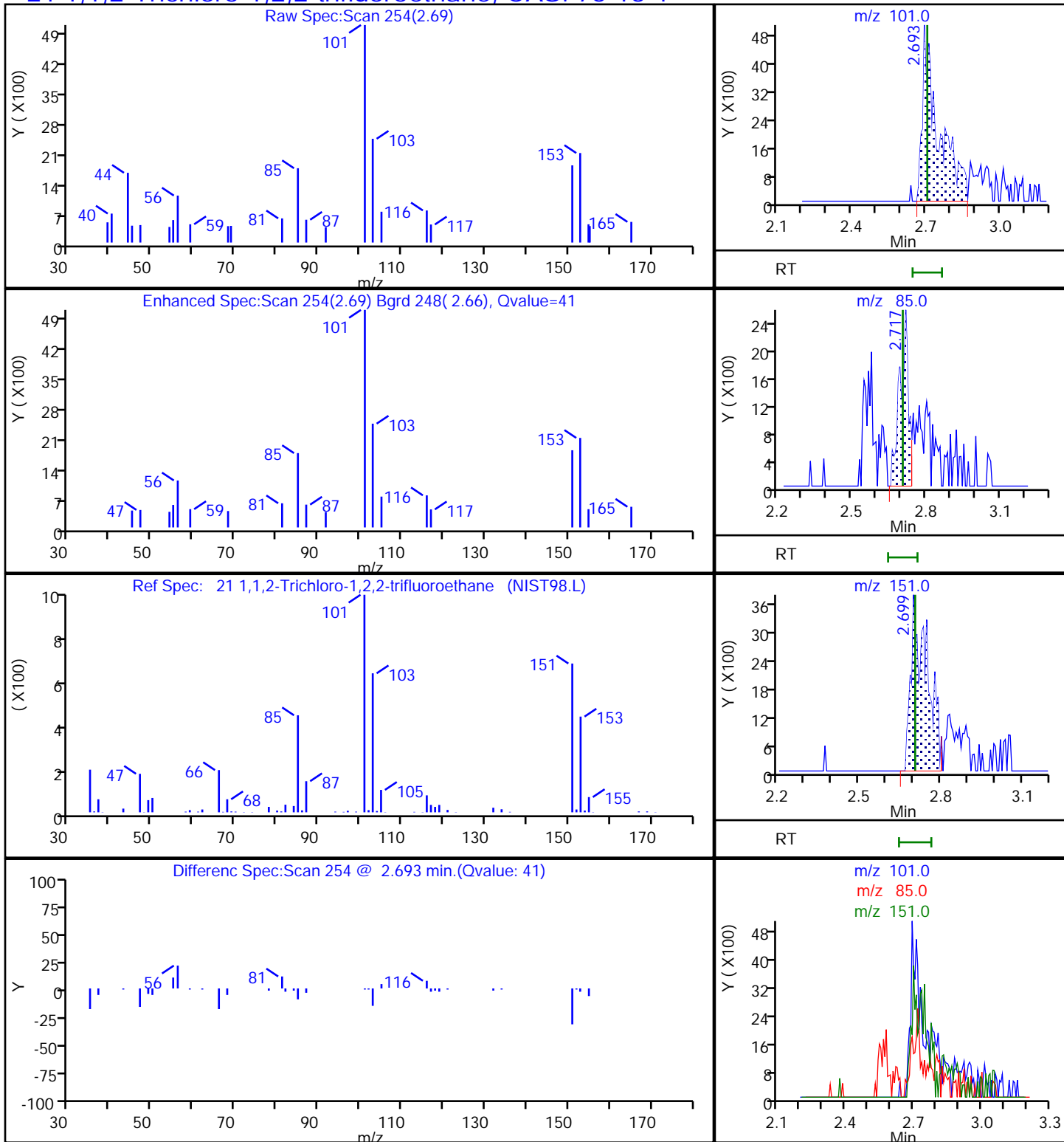
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

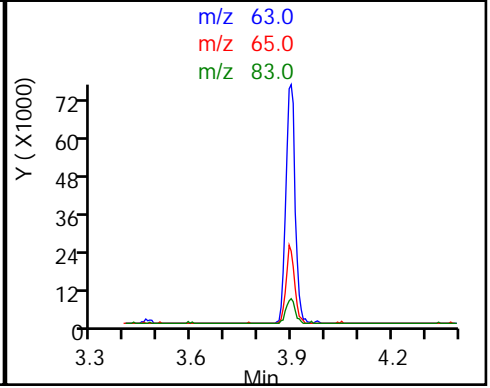
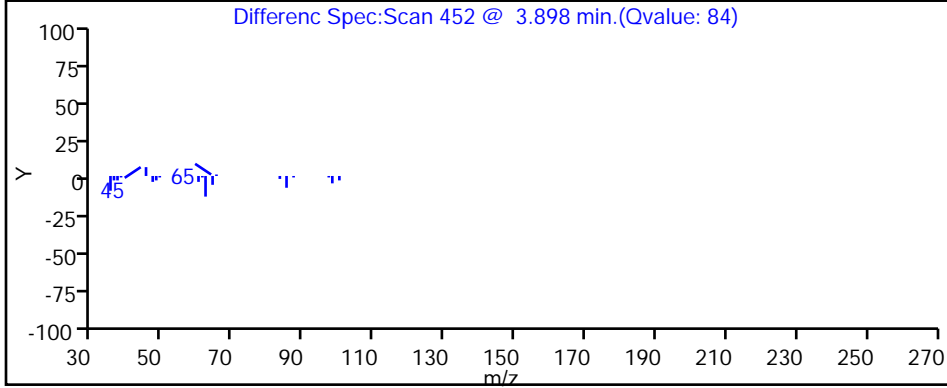
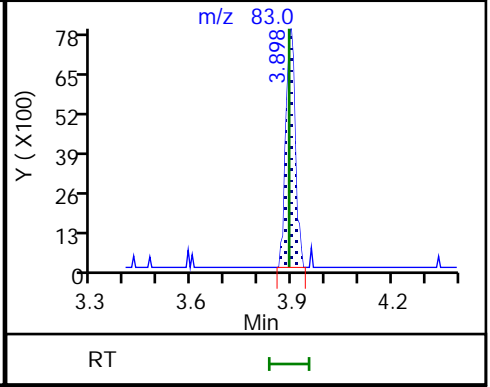
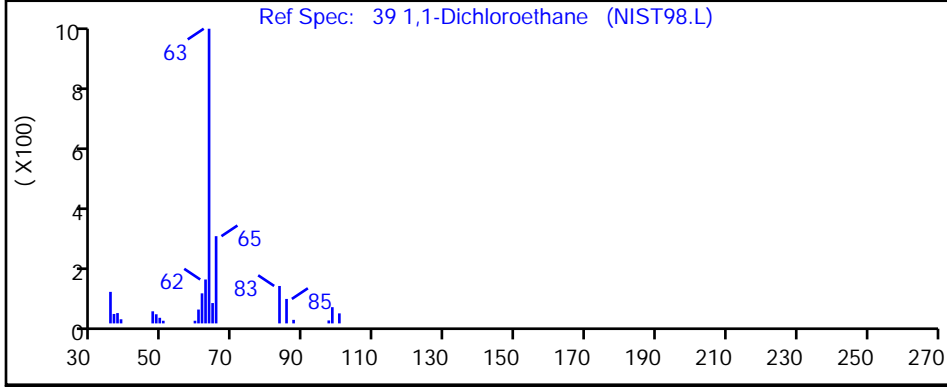
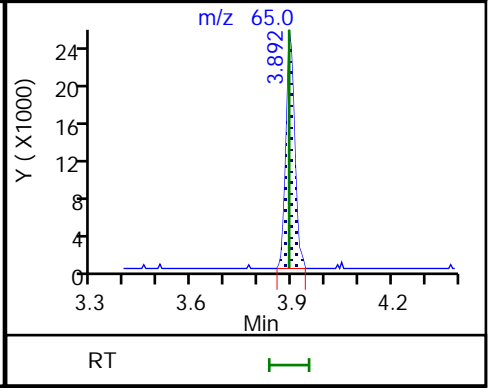
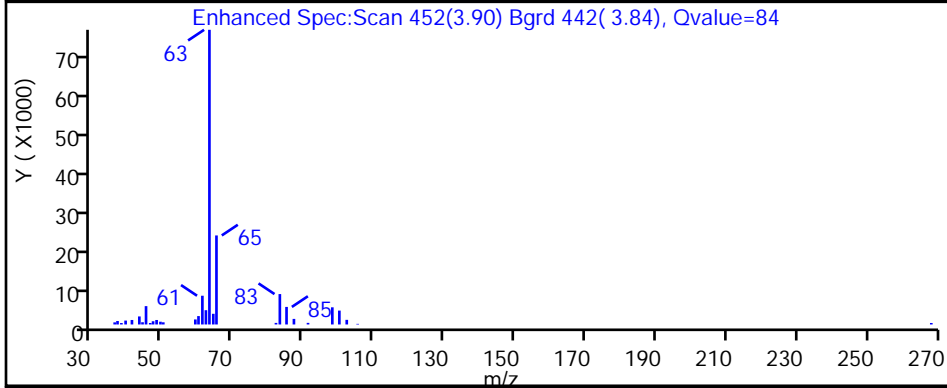
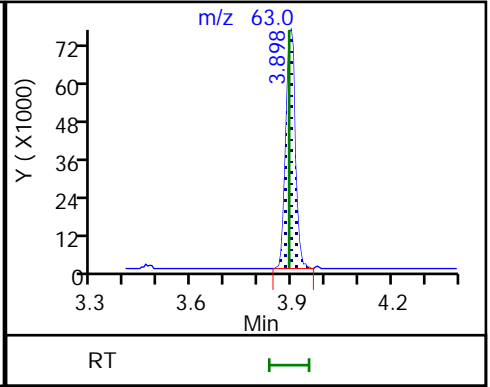
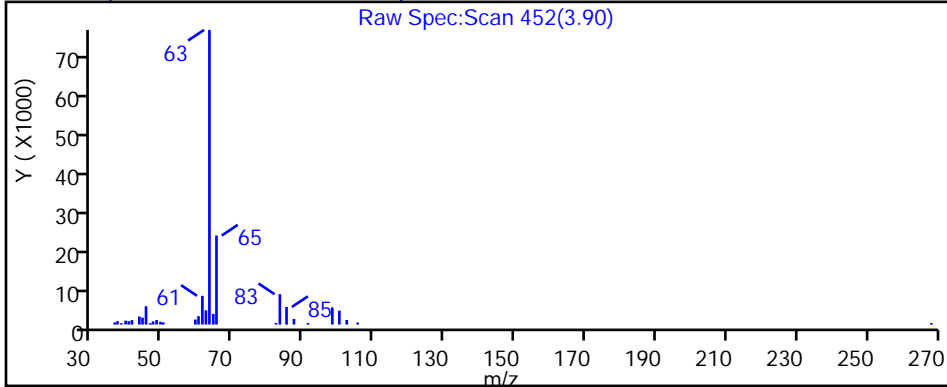
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

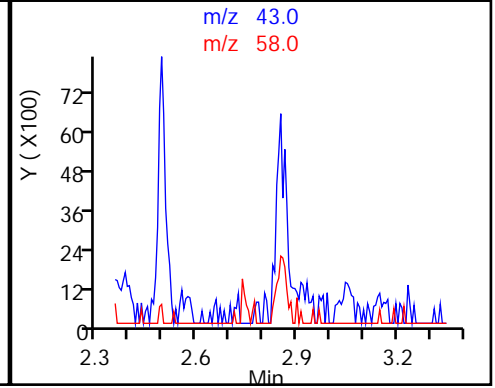
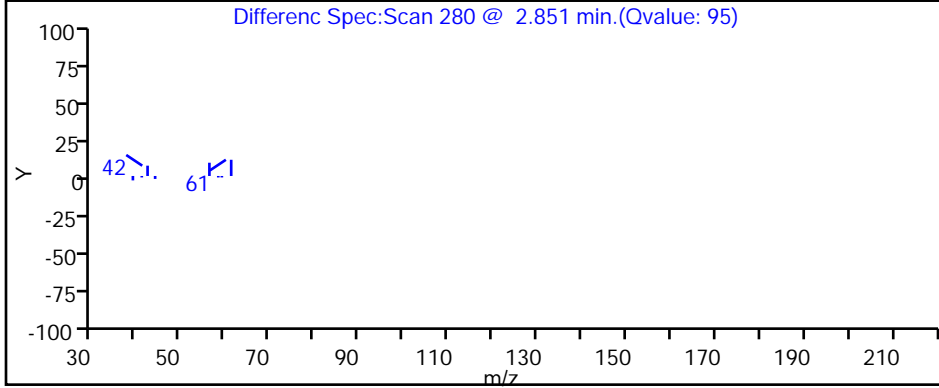
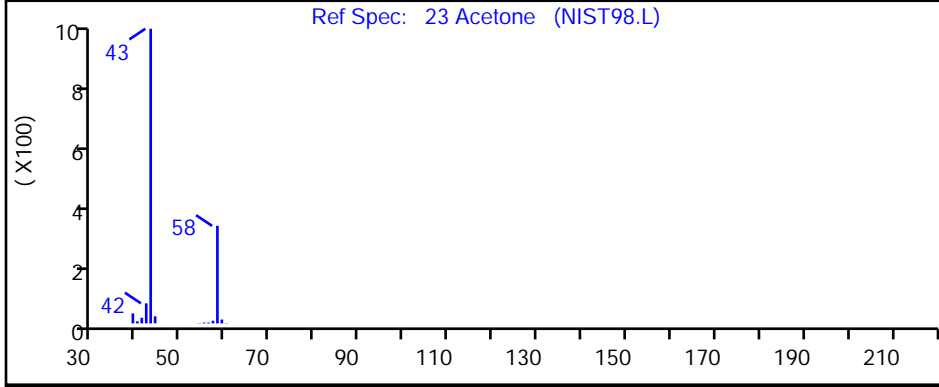
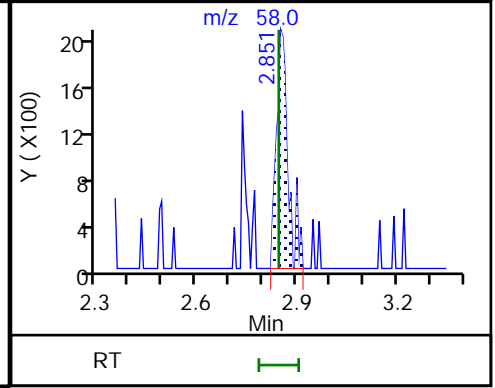
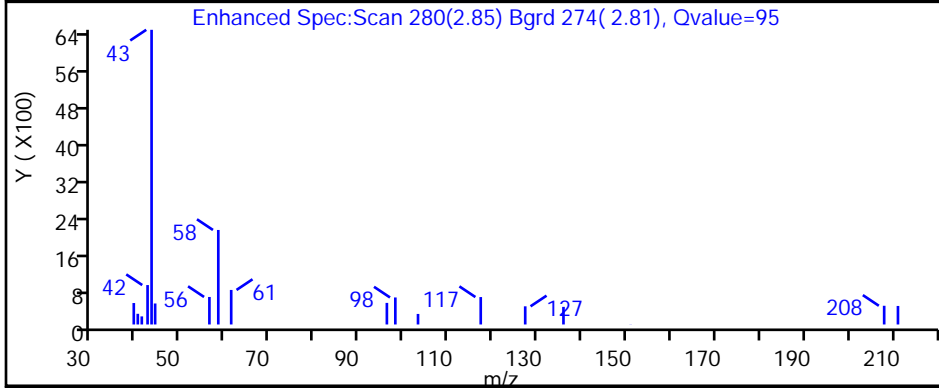
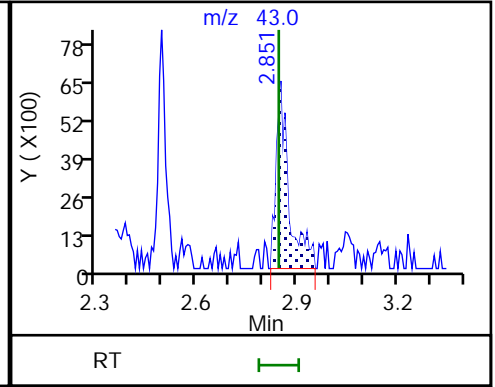
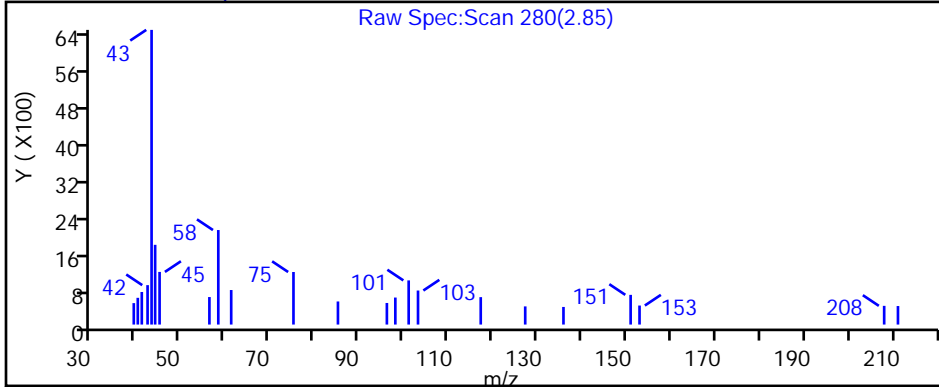
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

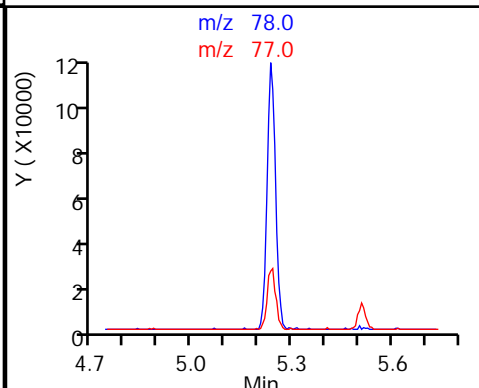
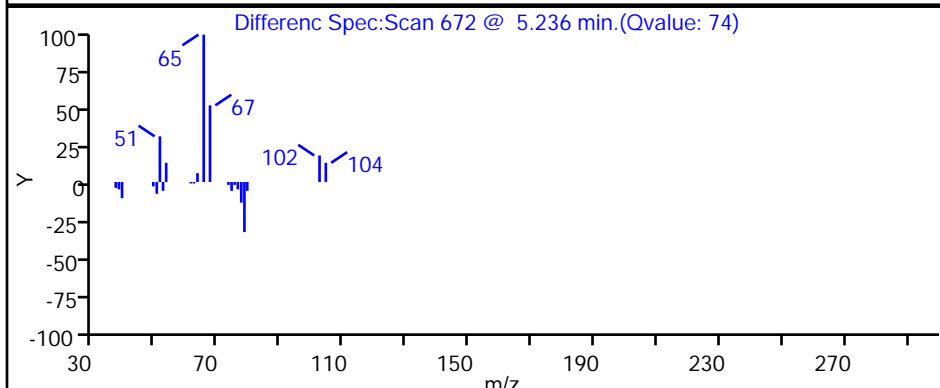
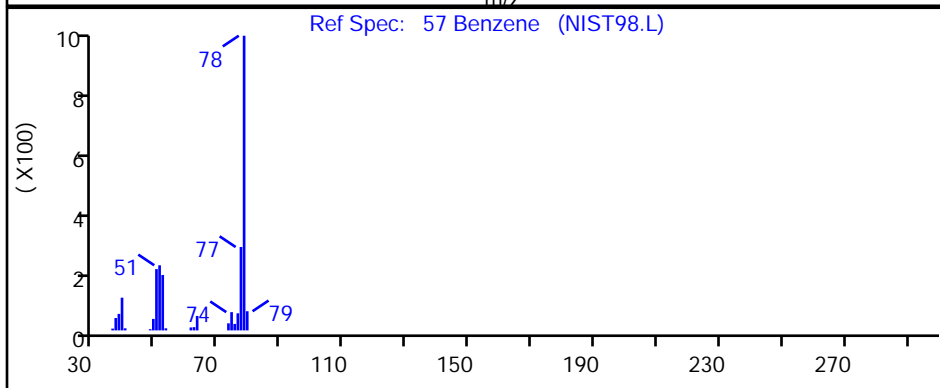
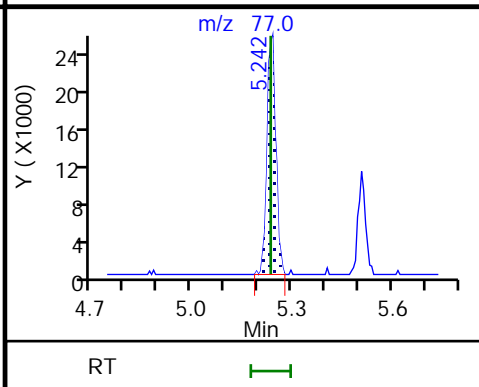
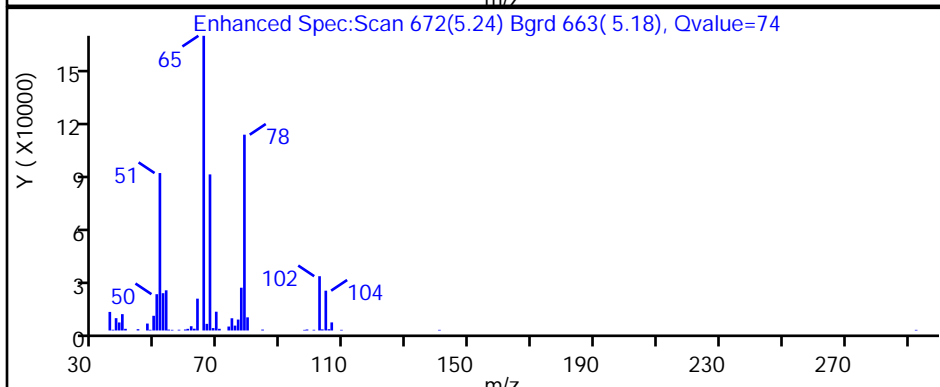
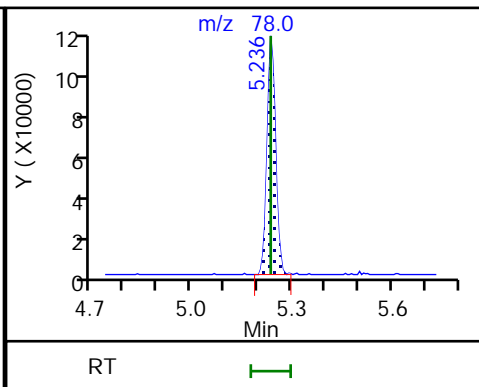
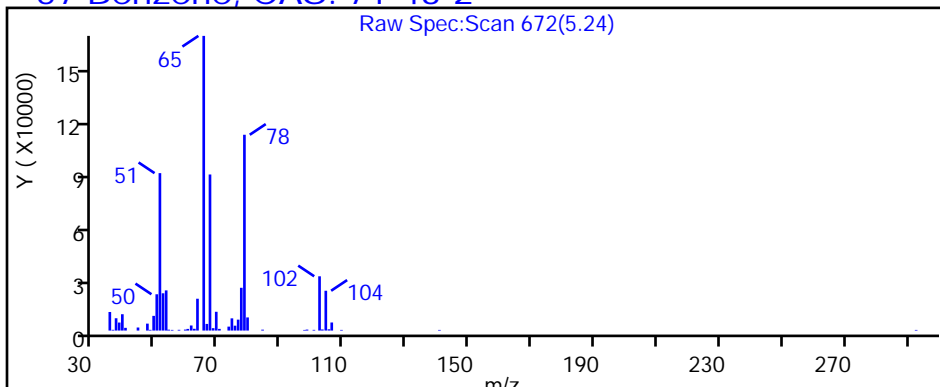
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

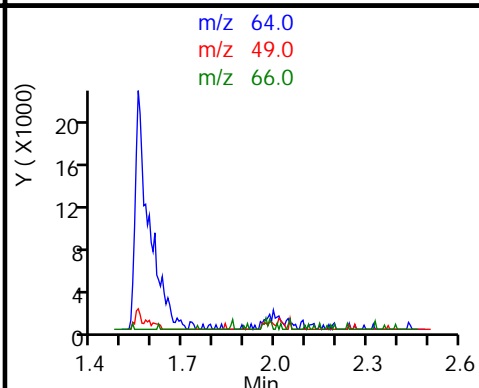
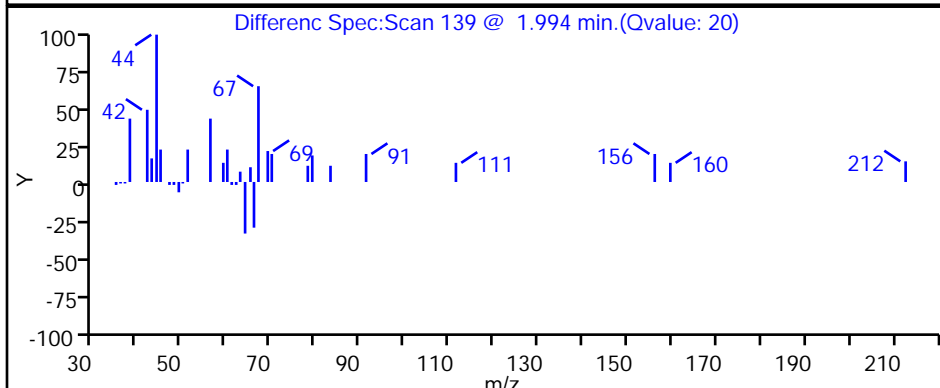
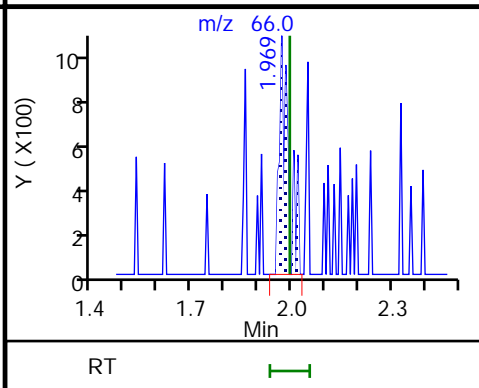
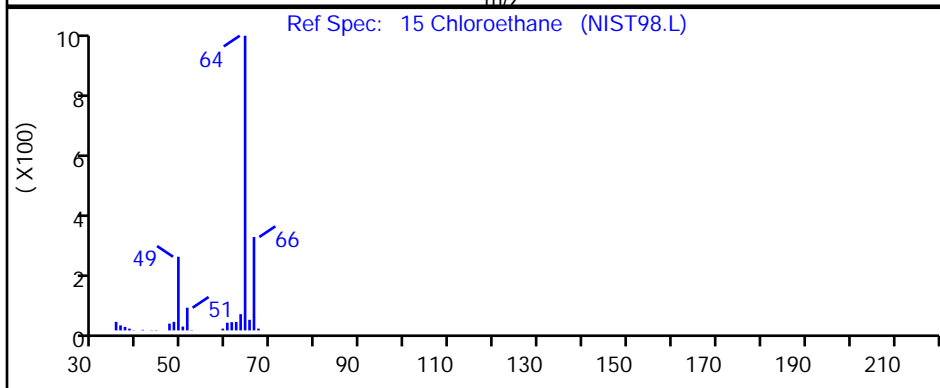
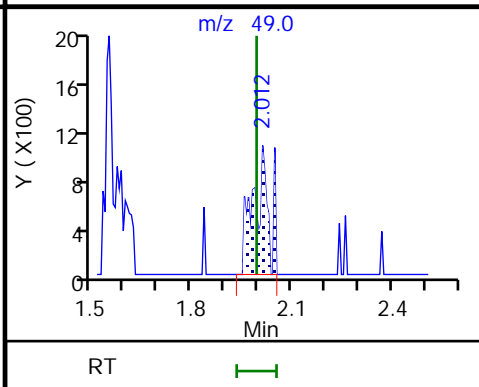
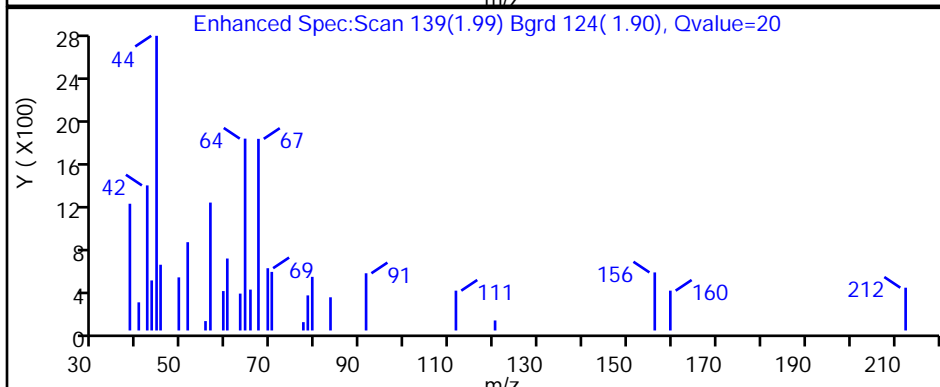
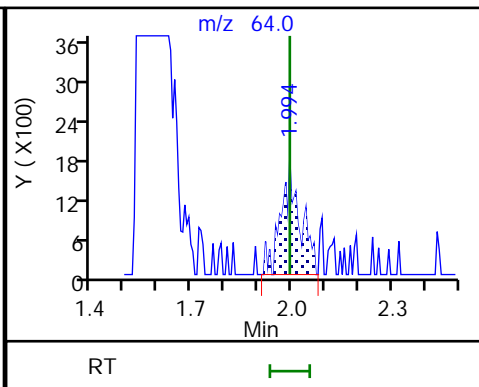
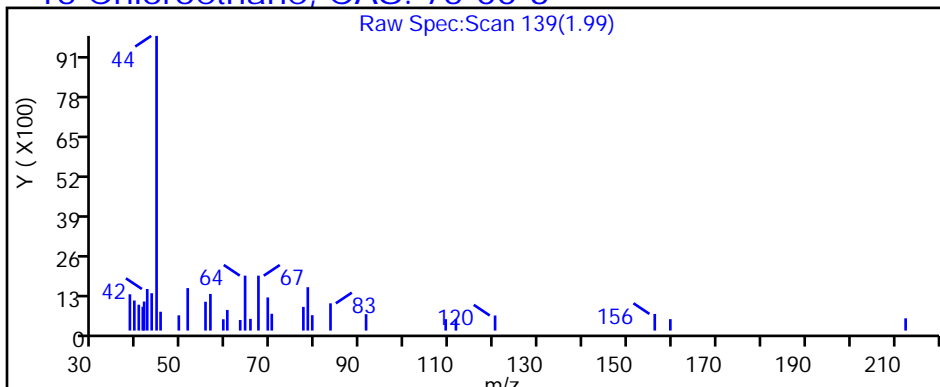
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

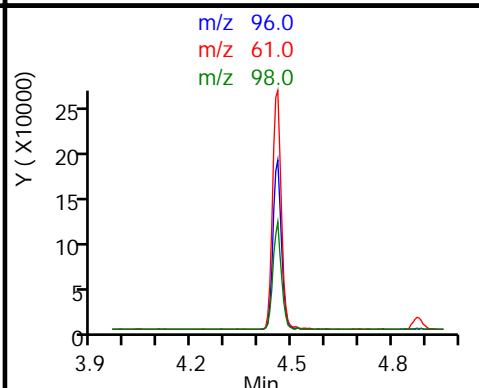
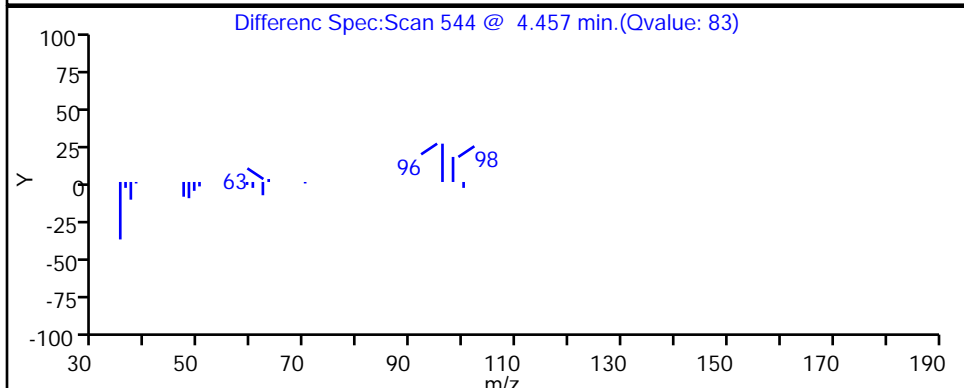
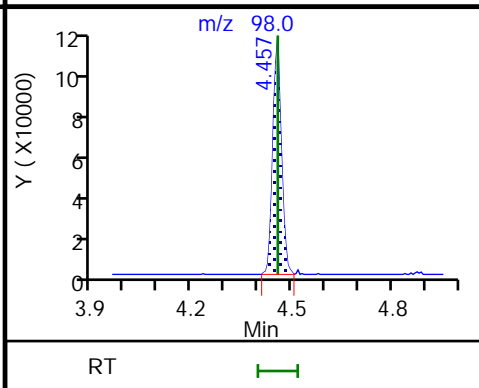
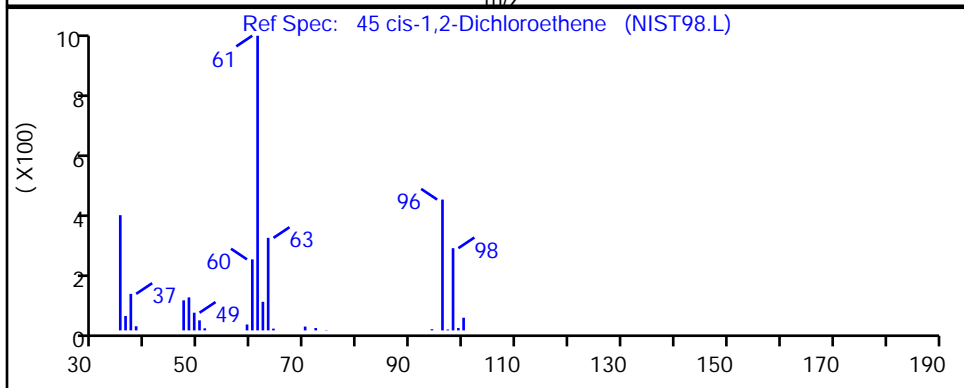
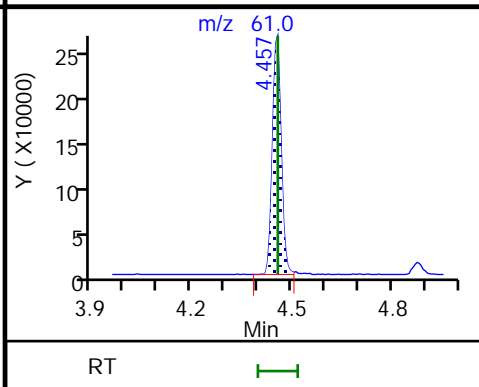
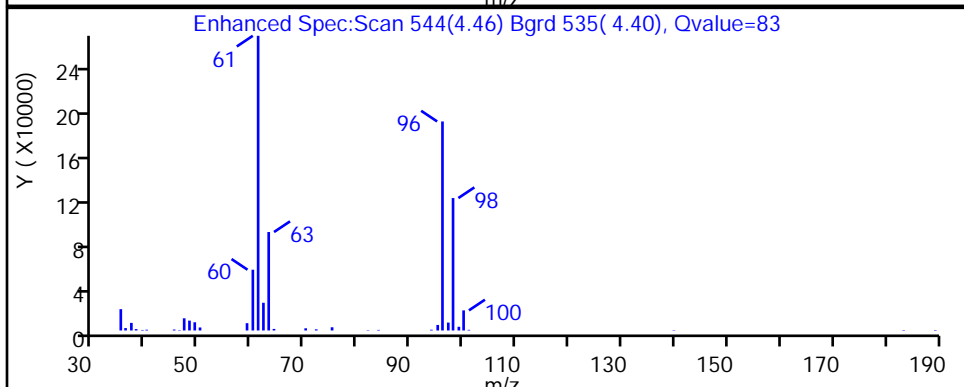
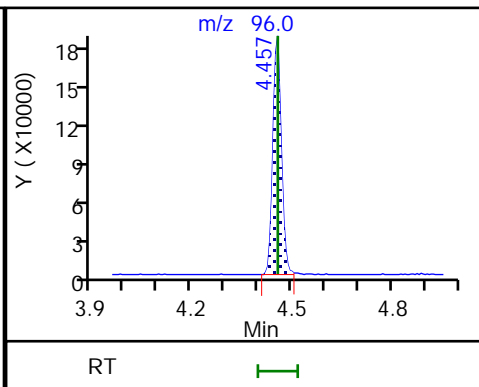
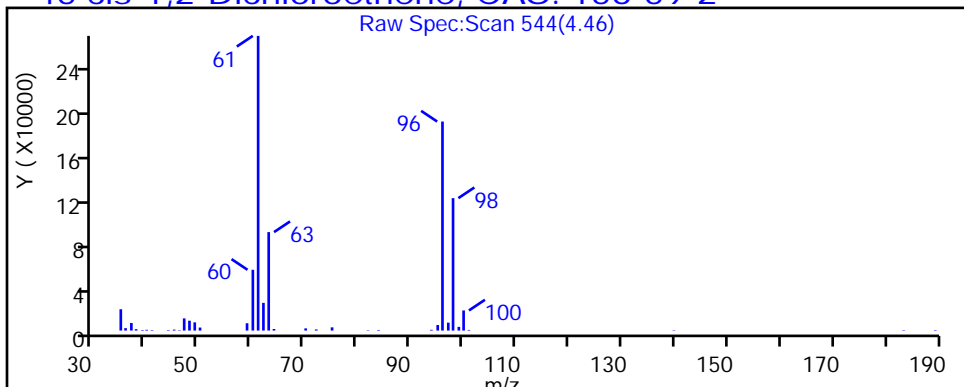
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

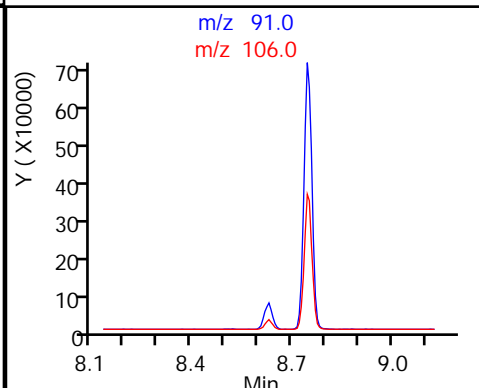
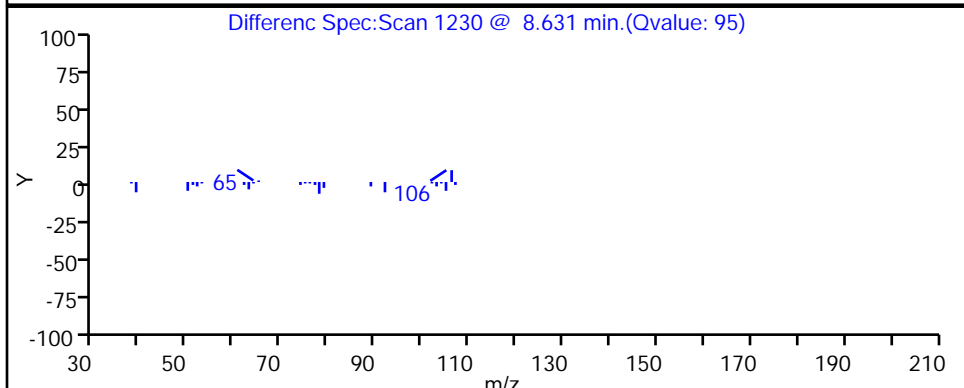
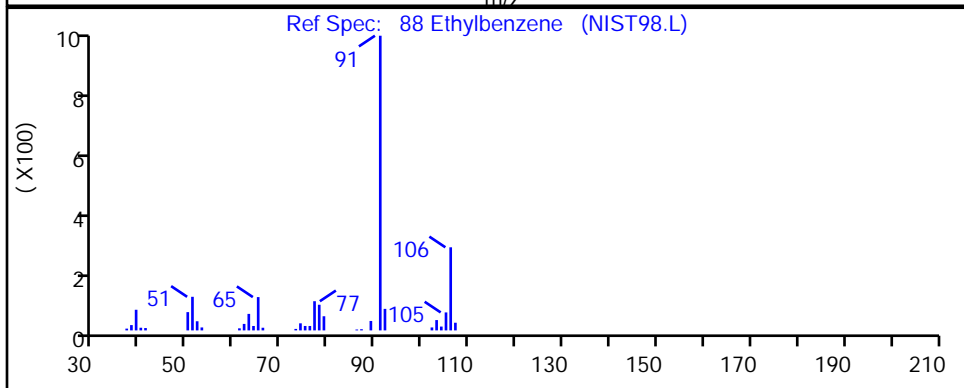
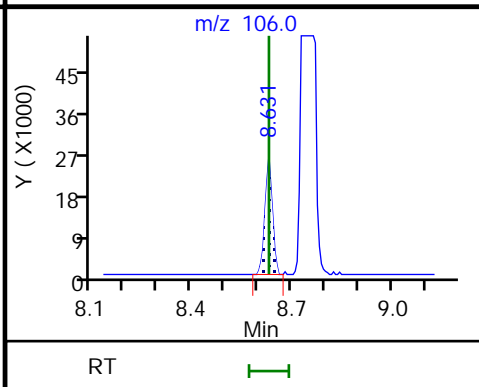
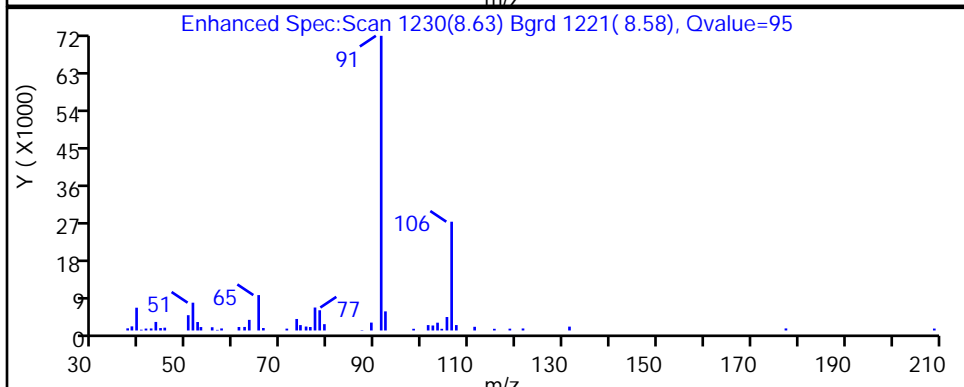
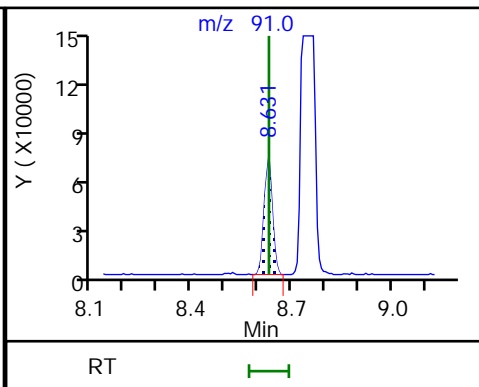
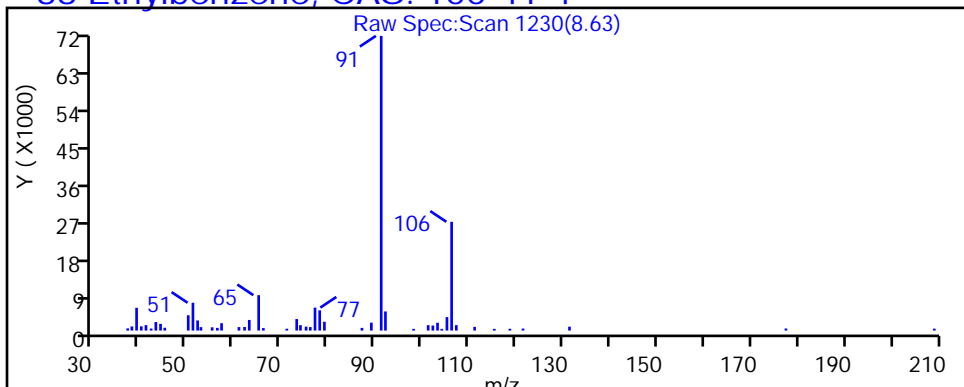
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

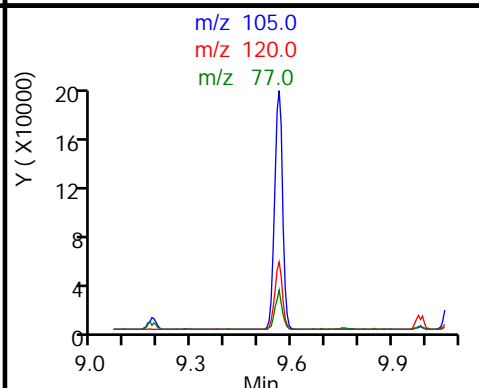
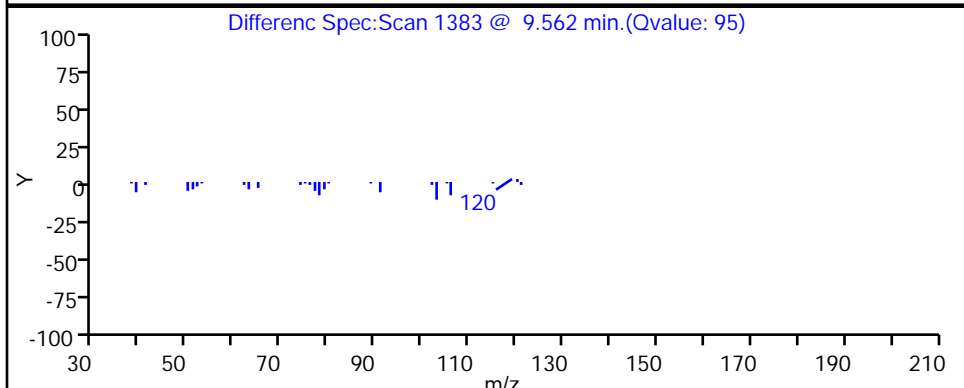
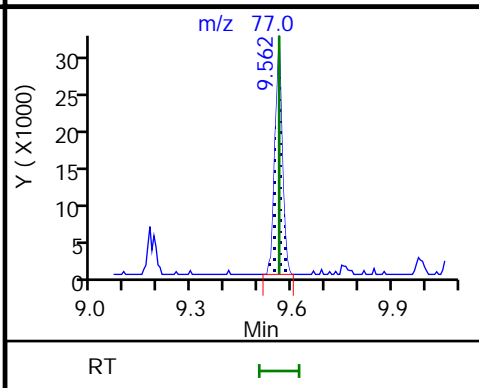
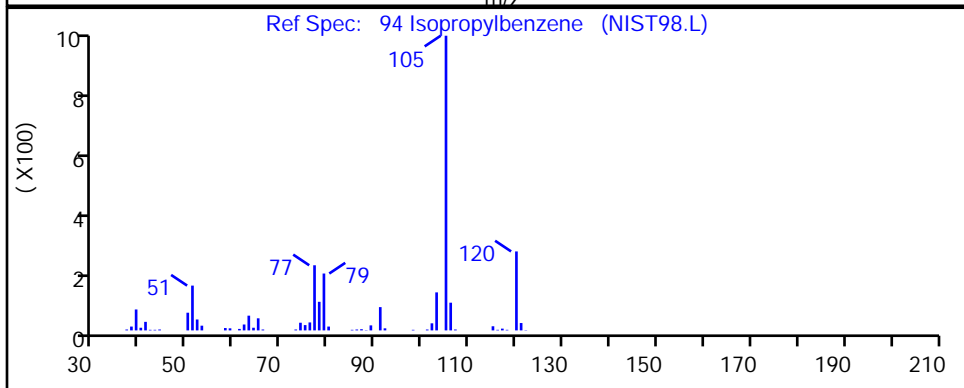
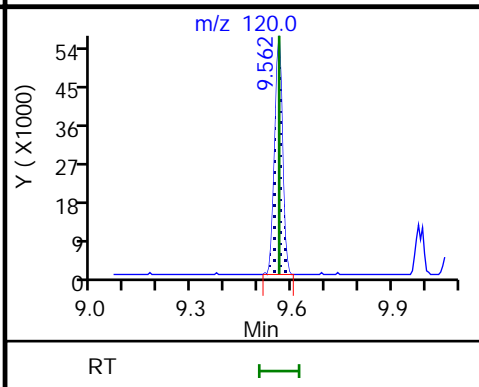
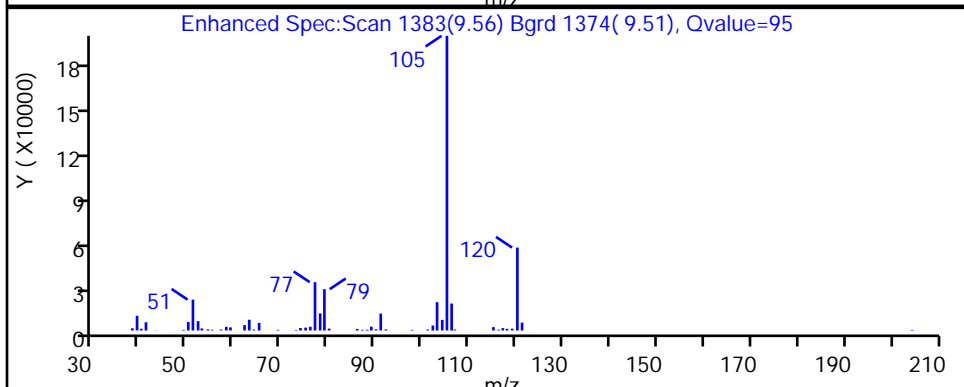
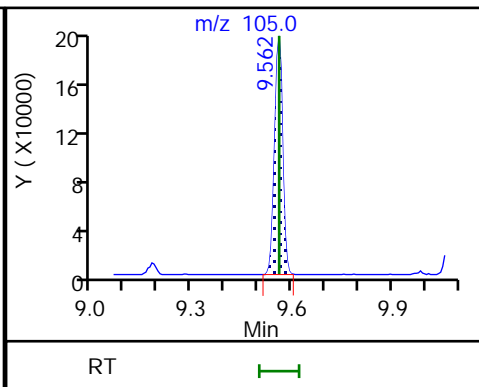
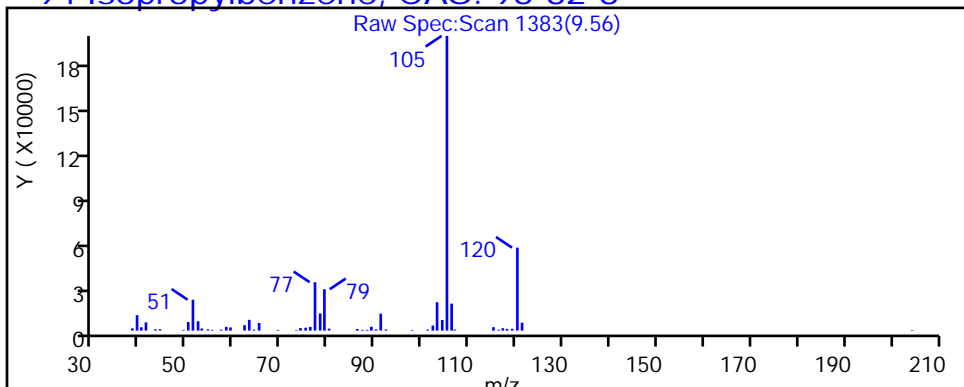
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

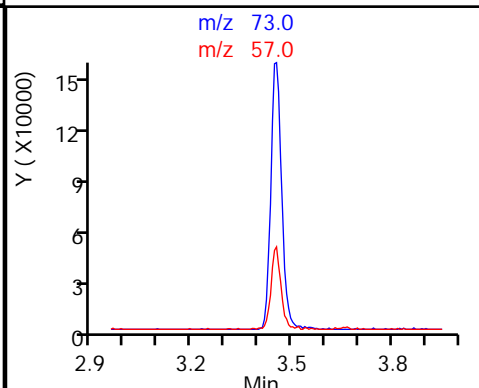
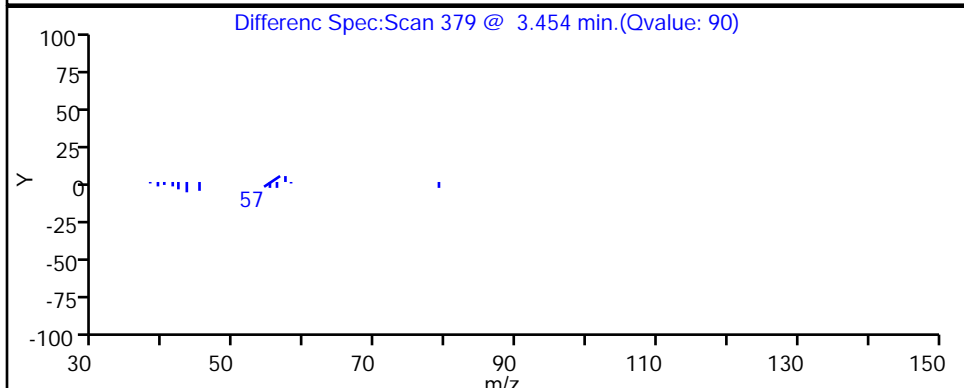
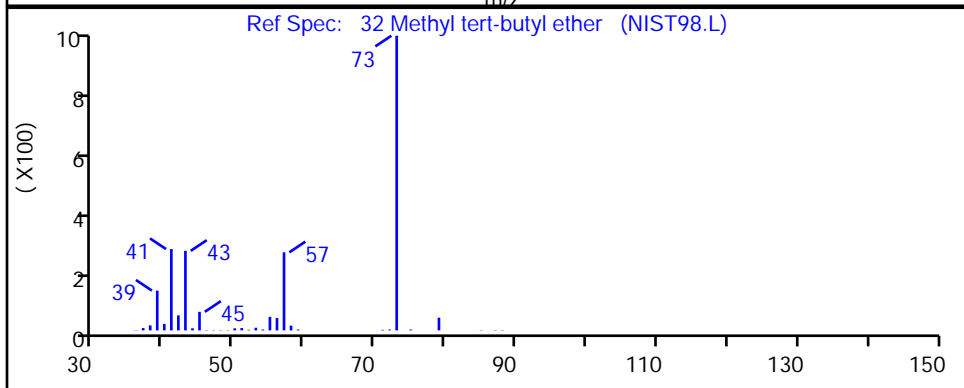
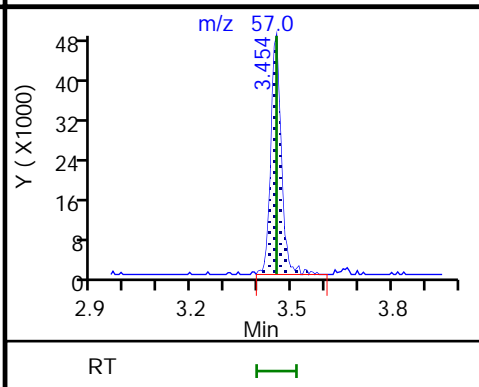
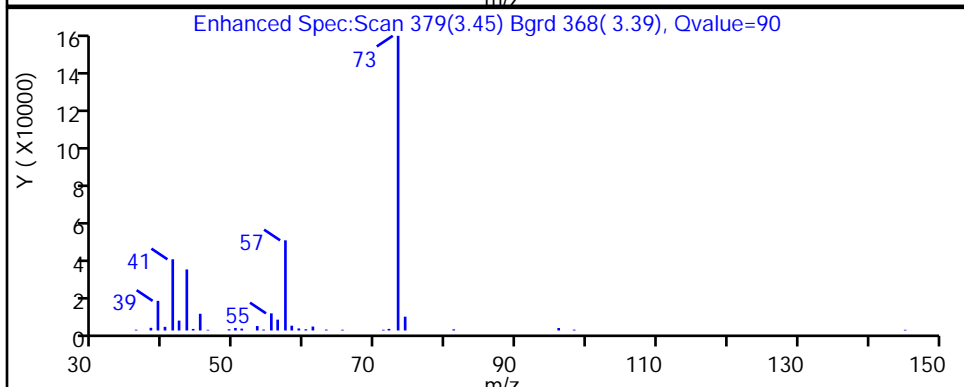
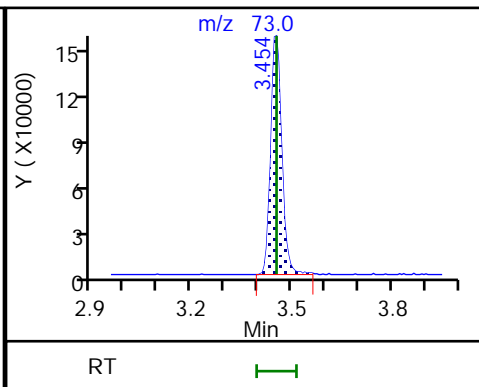
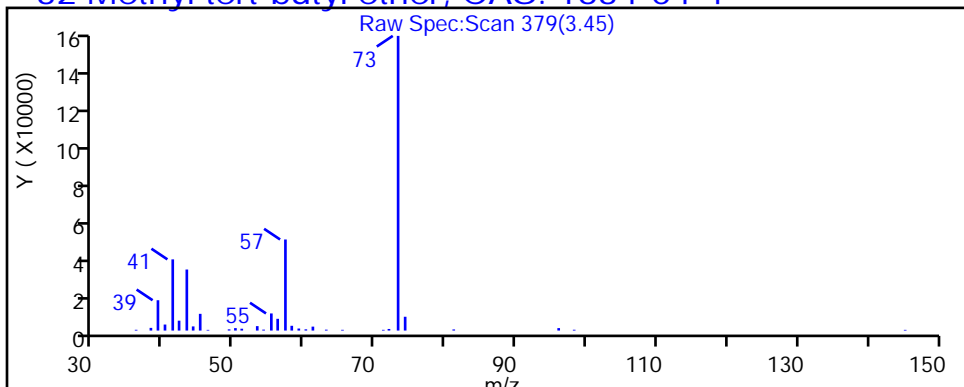
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

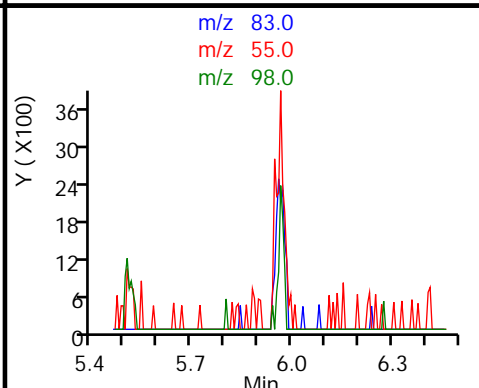
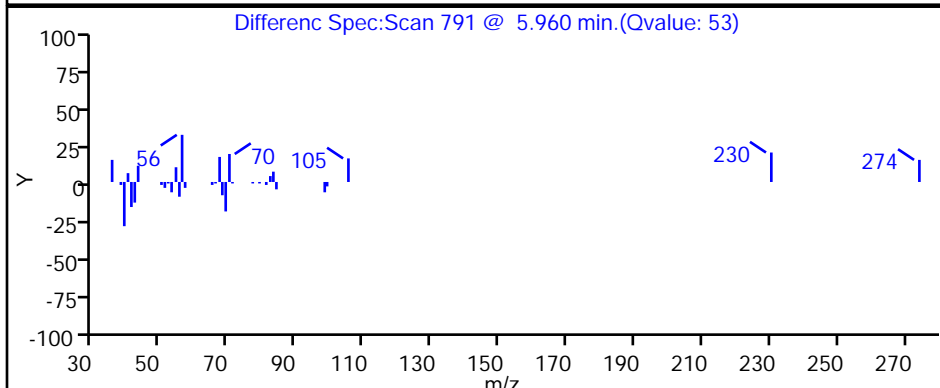
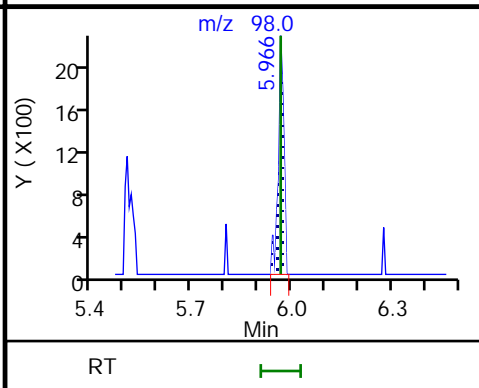
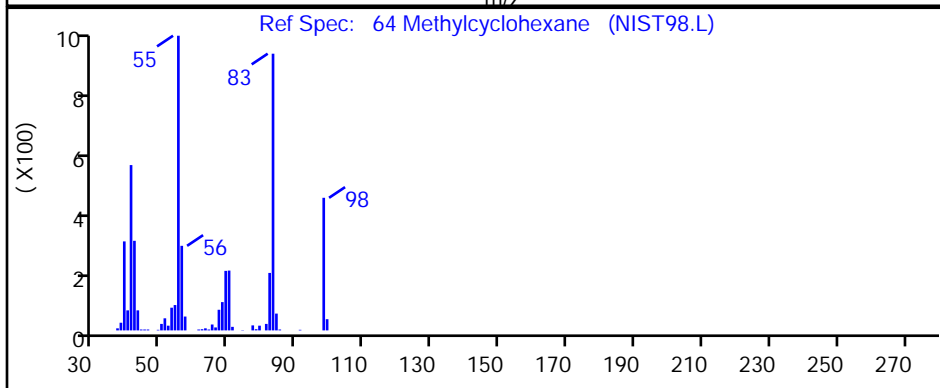
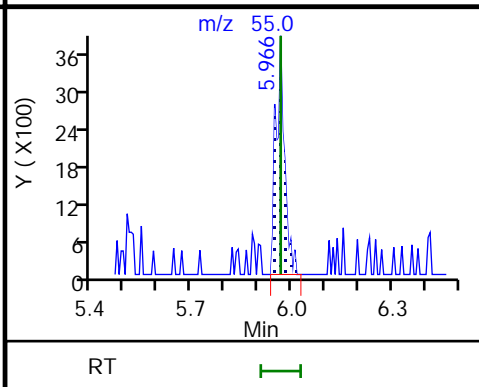
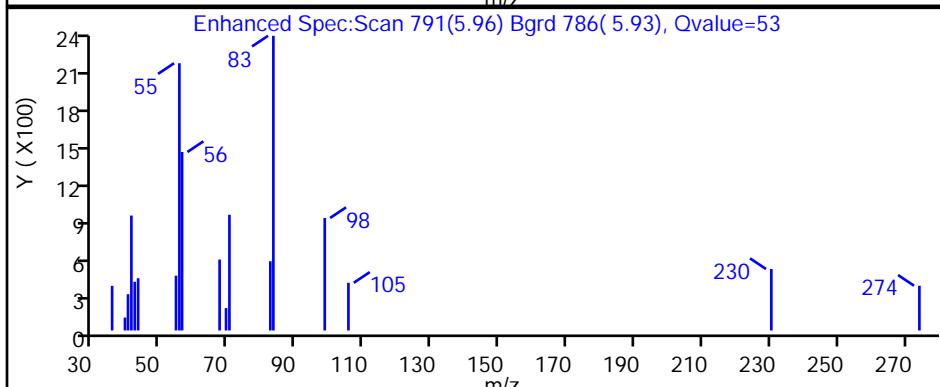
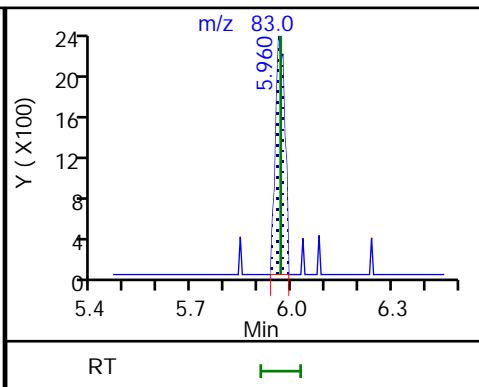
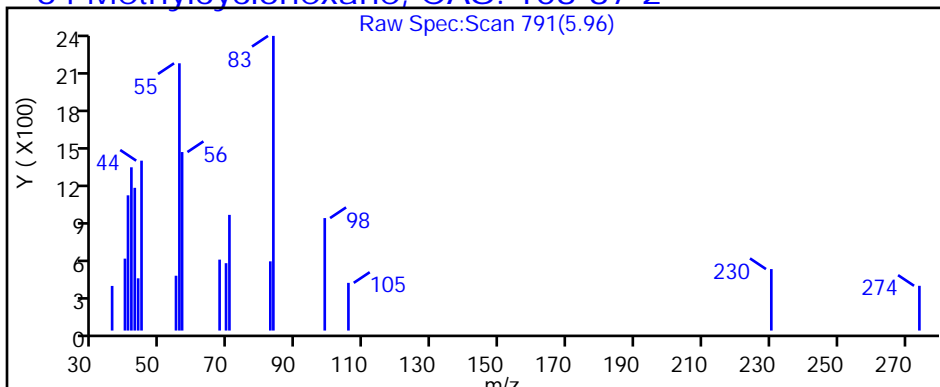
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

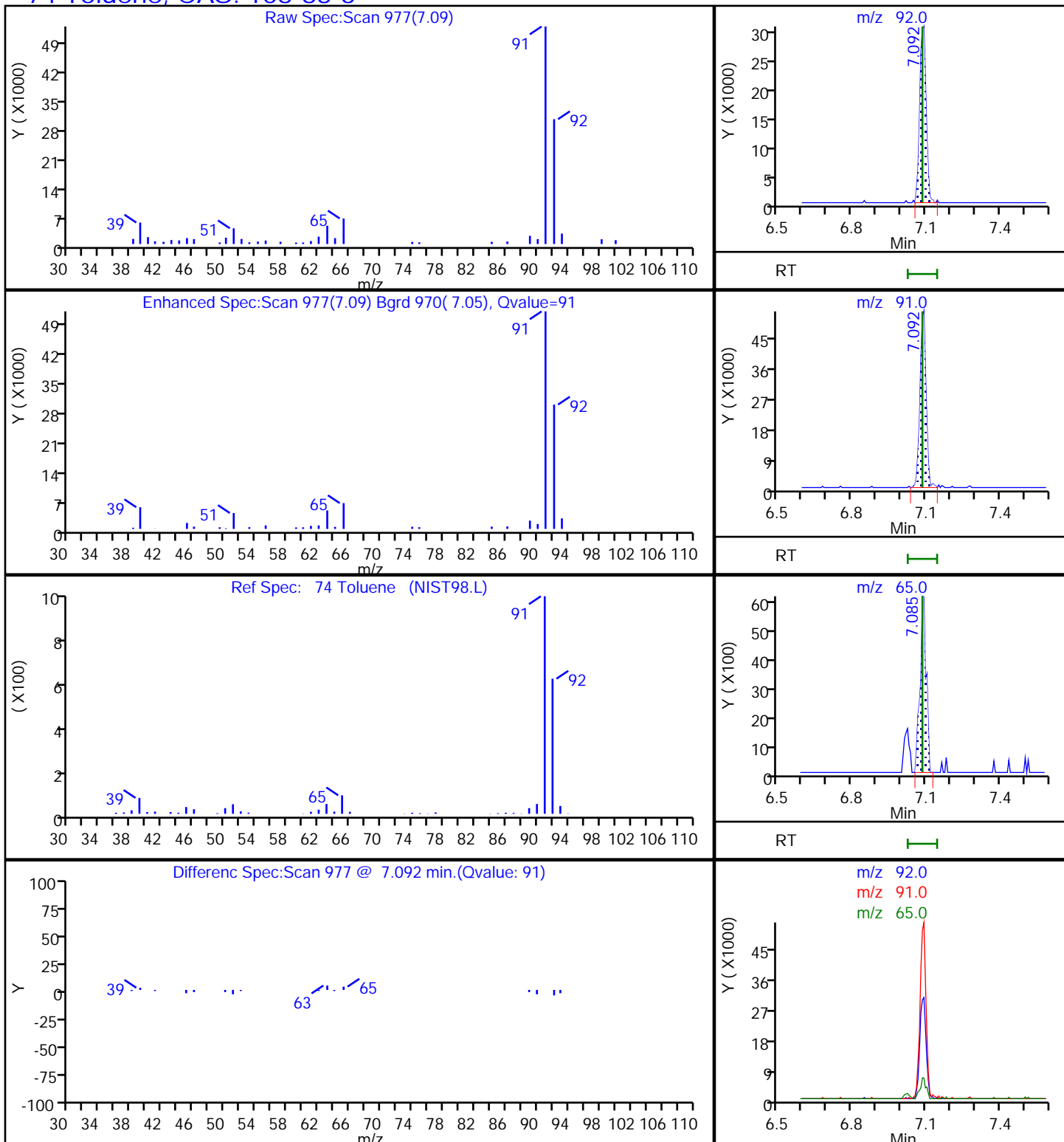
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

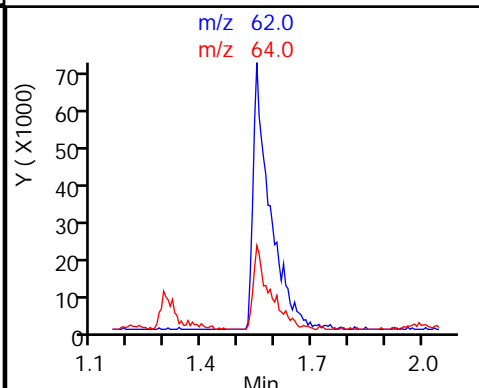
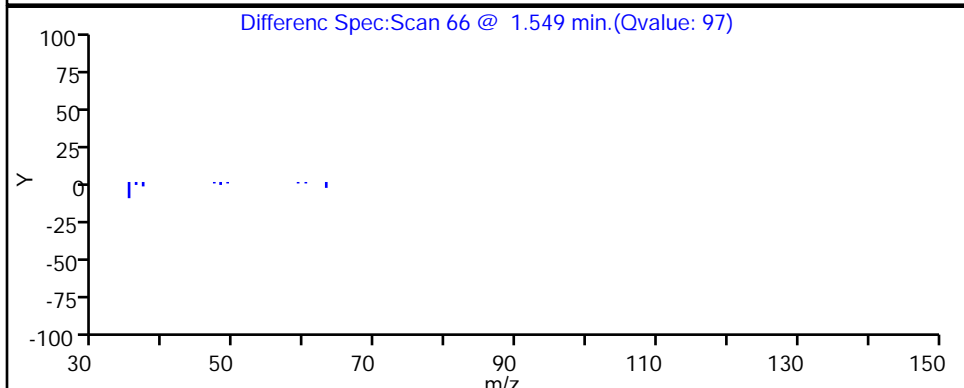
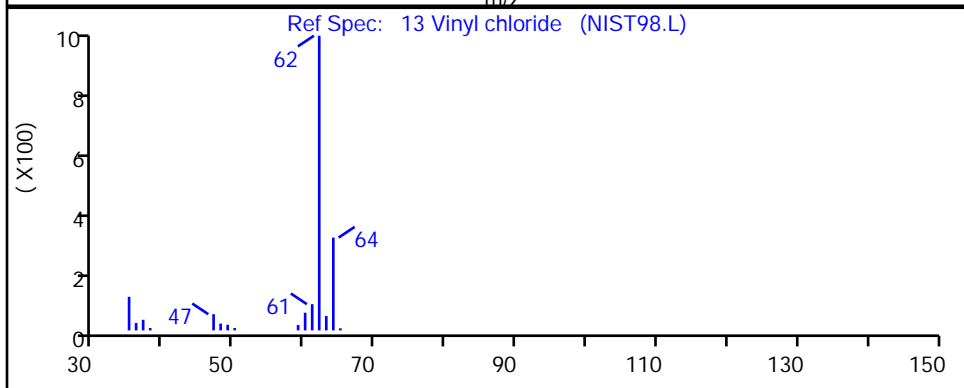
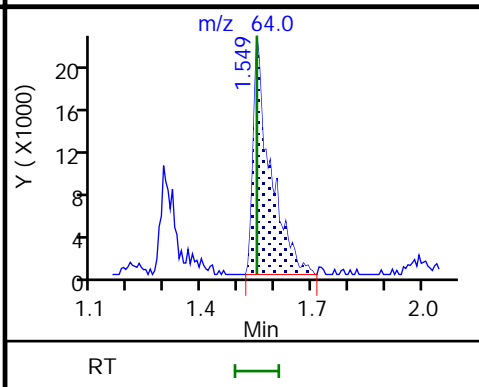
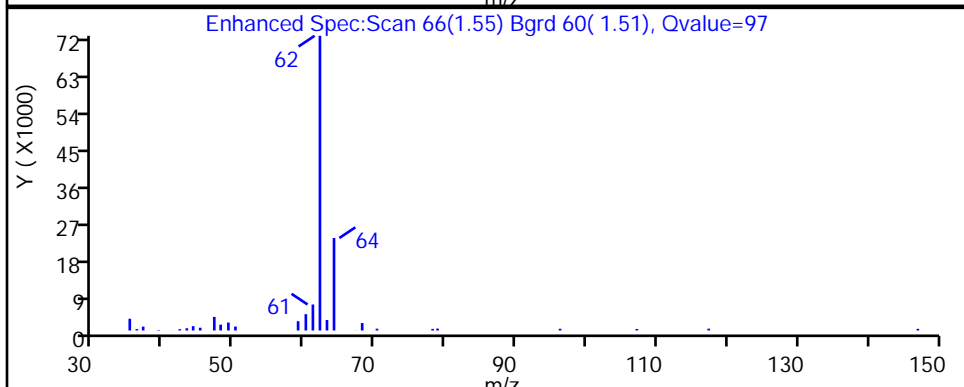
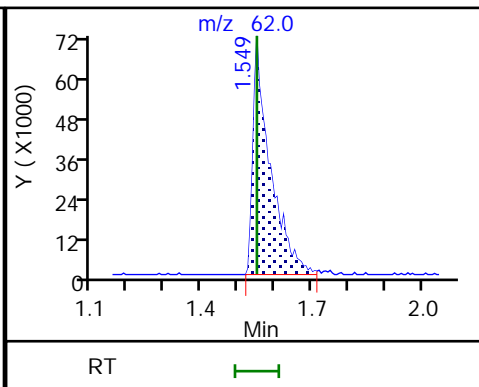
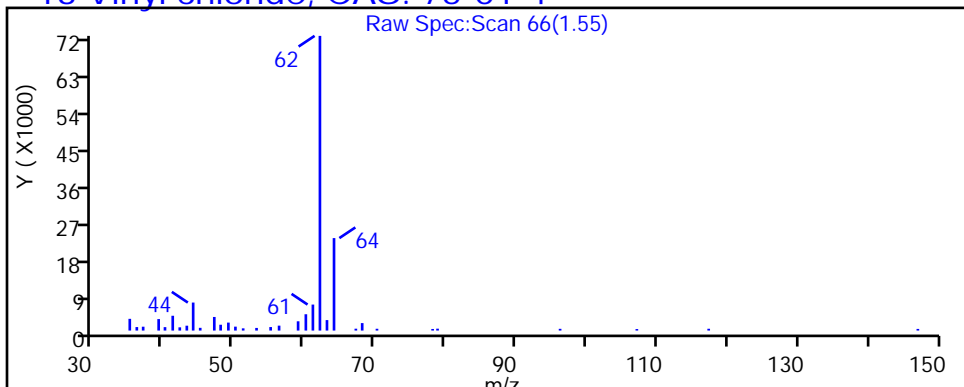
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

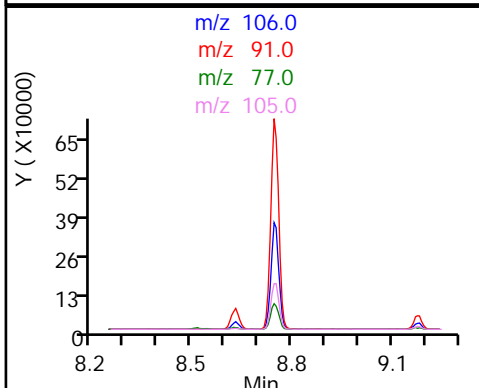
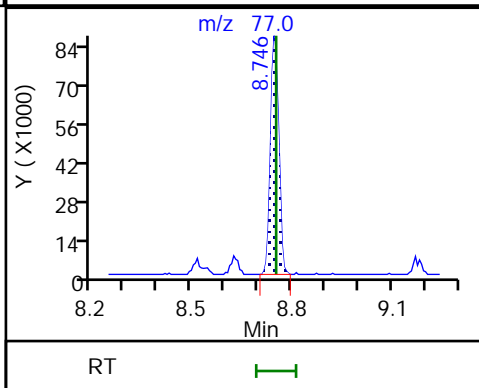
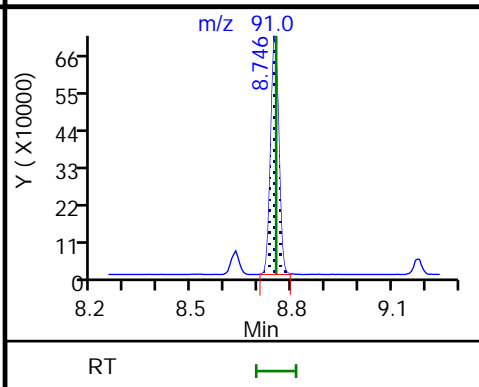
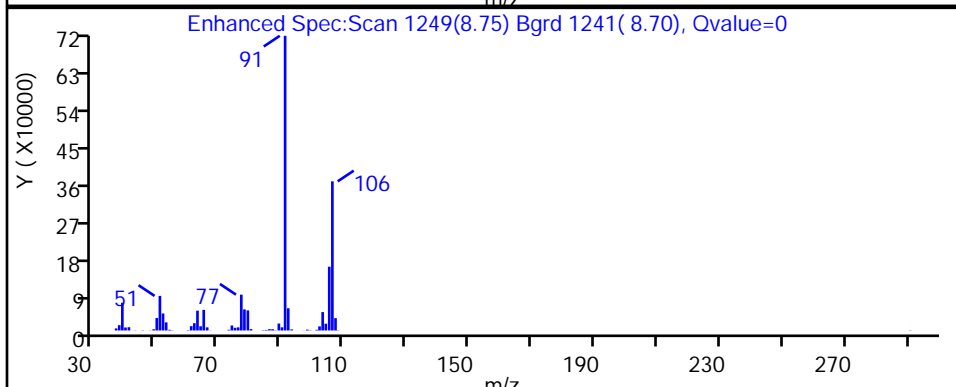
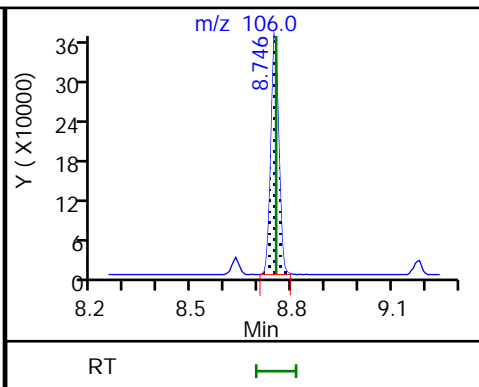
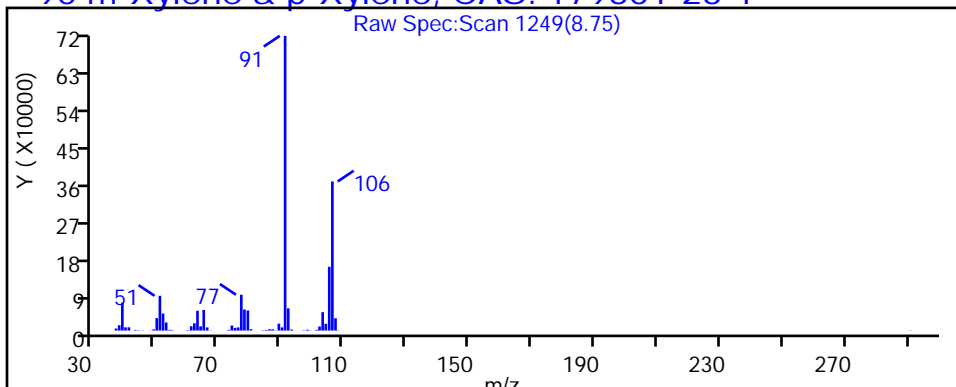
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

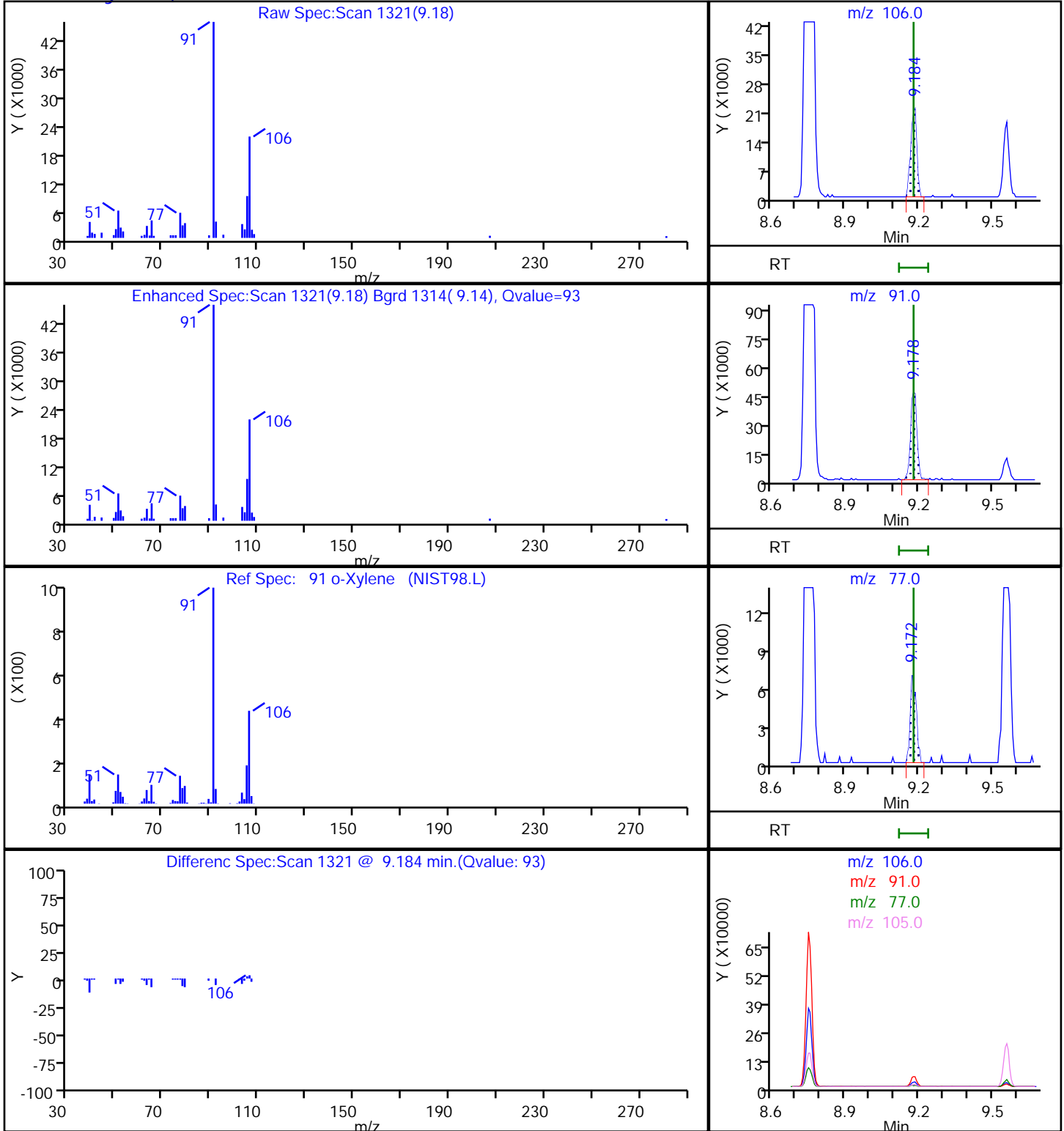
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

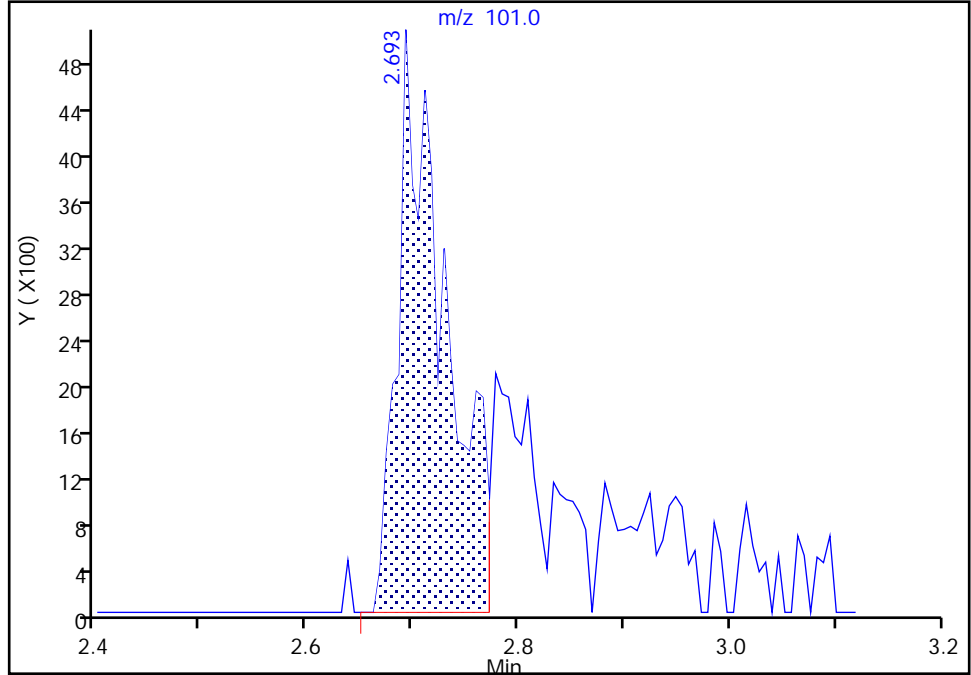
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D
Injection Date: 21-Jun-2018 21:59:30 Instrument ID: HP5973S
Lims ID: 480-137434-C-3 Lab Sample ID: 480-137434-3
Client ID: DUPE
Operator ID: KN ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

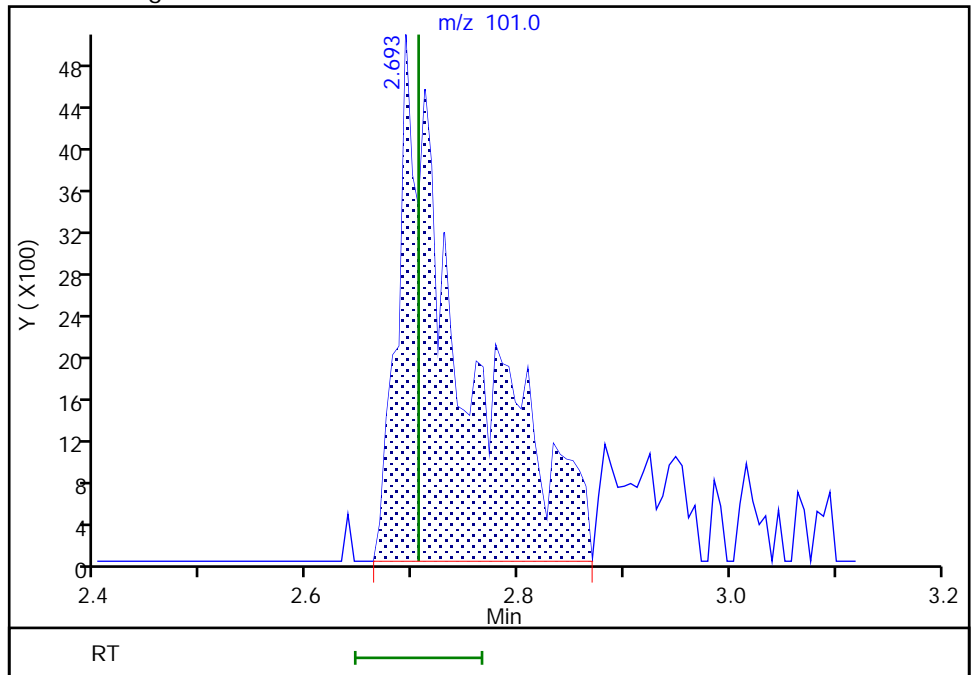
RT: 2.69
Area: 15645
Amount: 2.297588
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 22489
Amount: 3.140389
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 15:14:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: S-8260

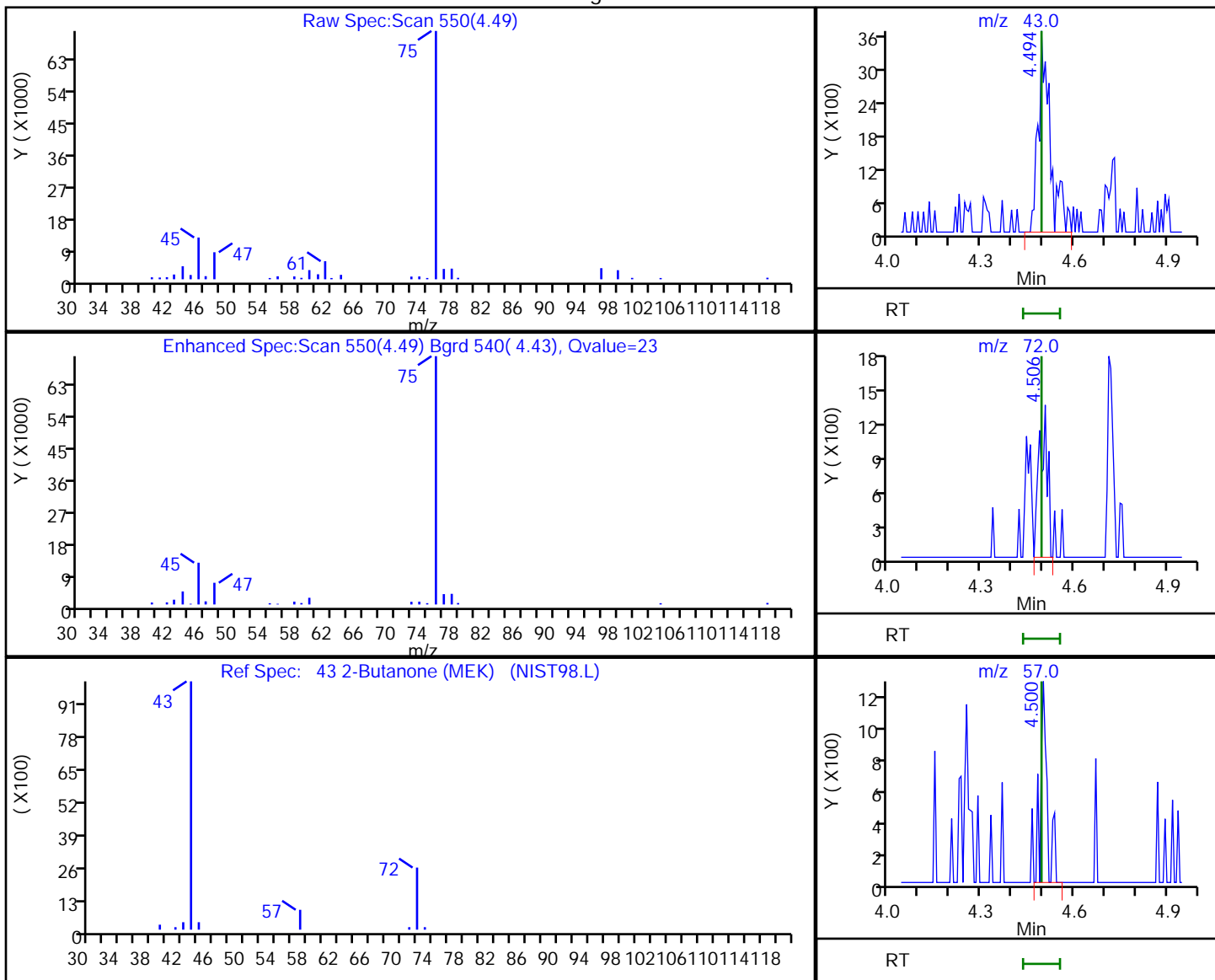
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.49	43.00	10035	1.662010
4.51	72.00	2450	
4.50	57.00	1795	

Reviewer: carrolln, 22-Jun-2018 15:16:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

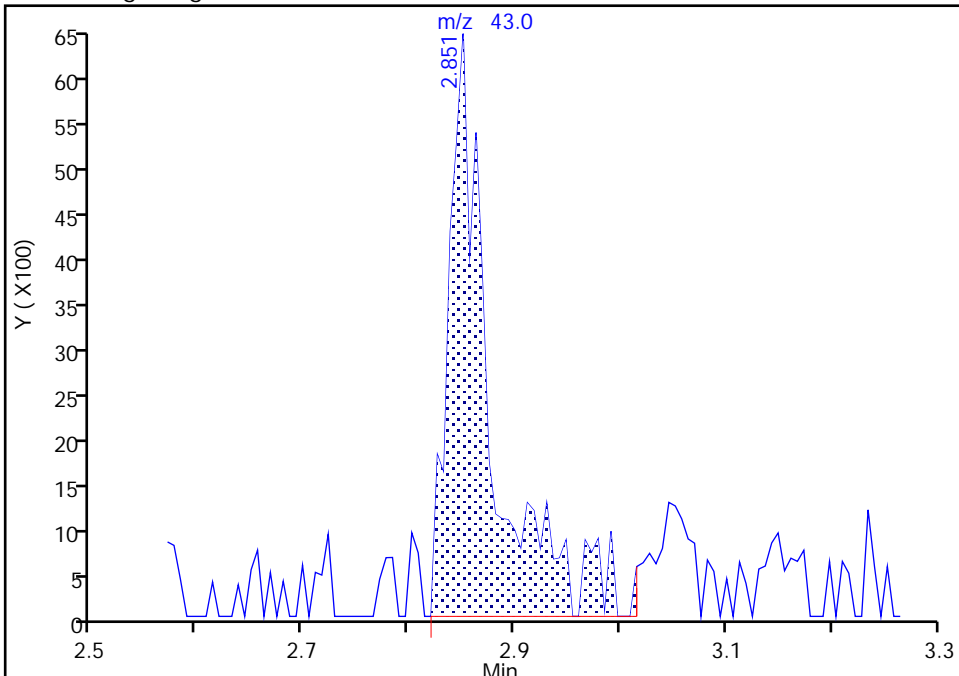
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D
Injection Date: 21-Jun-2018 21:59:30 Instrument ID: HP5973S
Lims ID: 480-137434-C-3 Lab Sample ID: 480-137434-3
Client ID: DUPE
Operator ID: KN ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

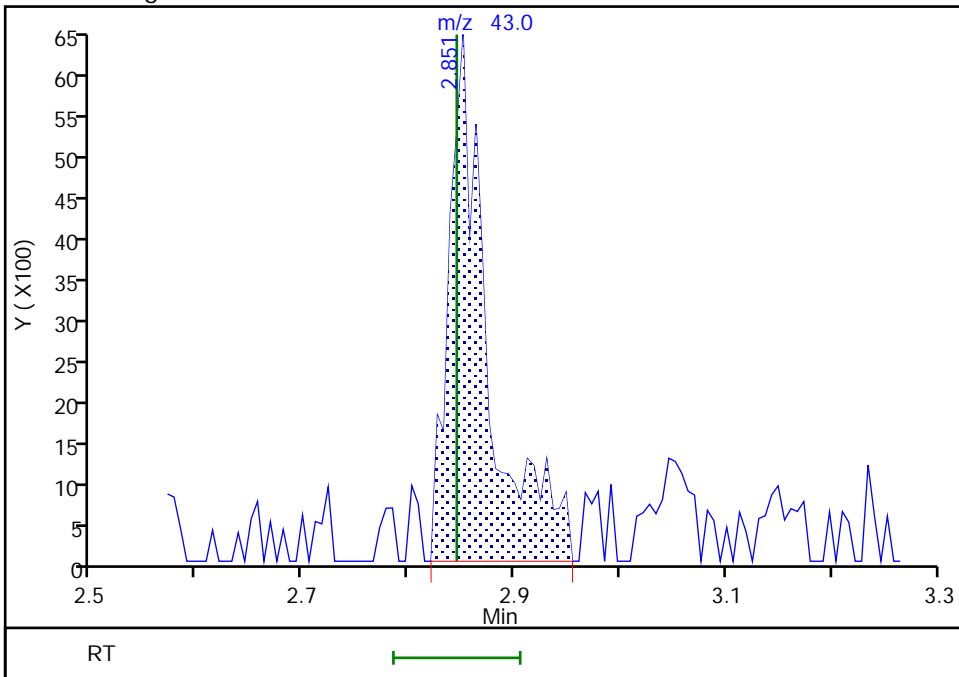
RT: 2.85
Area: 18029
Amount: 4.585147
Amount Units: ug/L

Processing Integration Results



RT: 2.85
Area: 16607
Amount: 4.223503
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 15:15:11
Audit Action: Manually Integrated

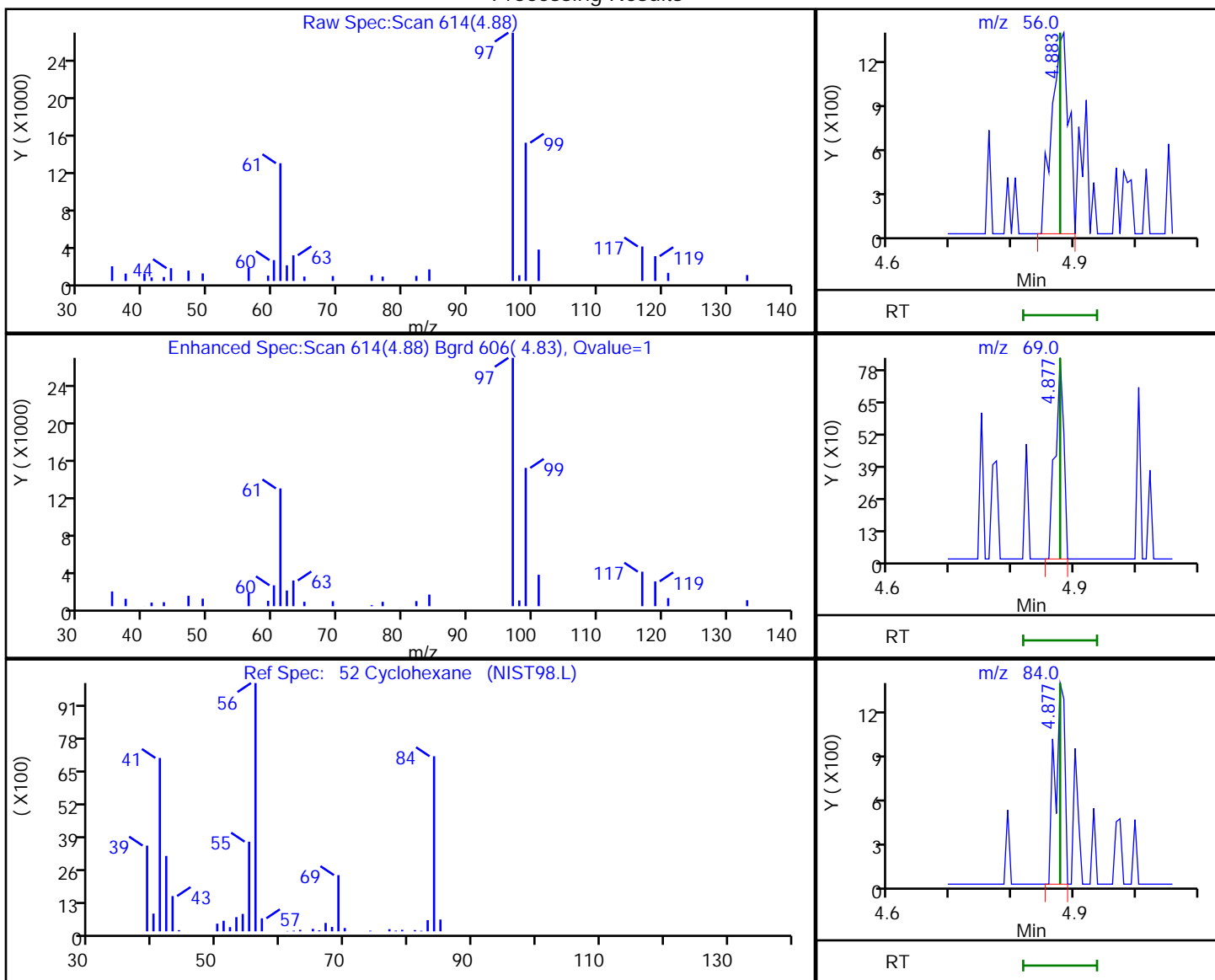
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D
 Injection Date: 21-Jun-2018 21:59:30 Instrument ID: HP5973S
 Lims ID: 480-137434-C-3 Lab Sample ID: 480-137434-3
 Client ID: DUPE
 Operator ID: KN ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.88	56.00	2635	0.138421
4.88	69.00	792	
4.88	84.00	1445	

Reviewer: carrolln, 22-Jun-2018 15:16:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

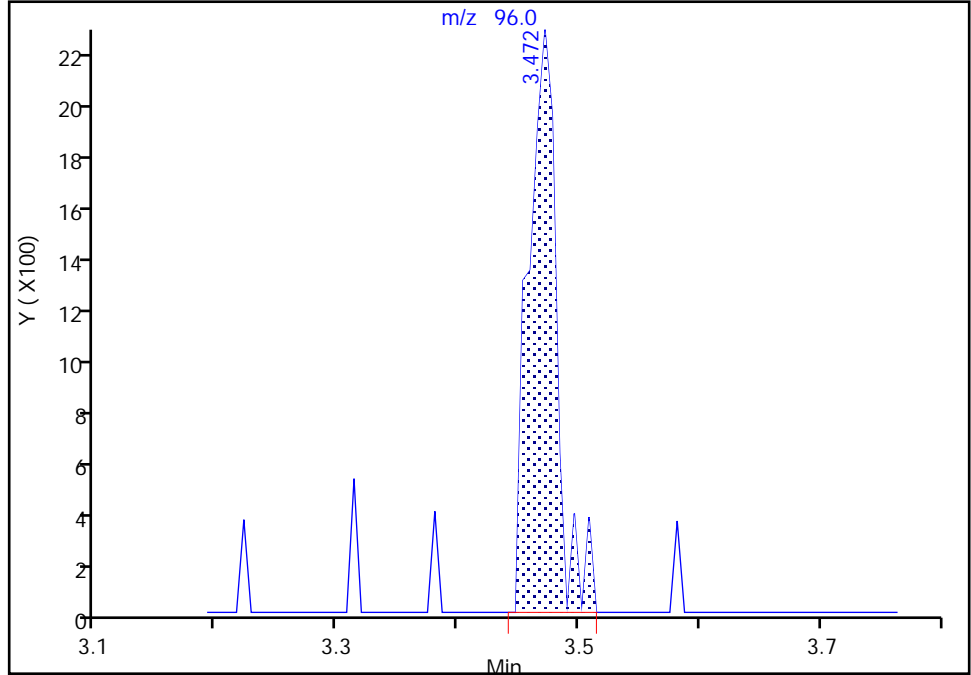
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D
Injection Date: 21-Jun-2018 21:59:30 Instrument ID: HP5973S
Lims ID: 480-137434-C-3 Lab Sample ID: 480-137434-3
Client ID: DUPE
Operator ID: KN ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

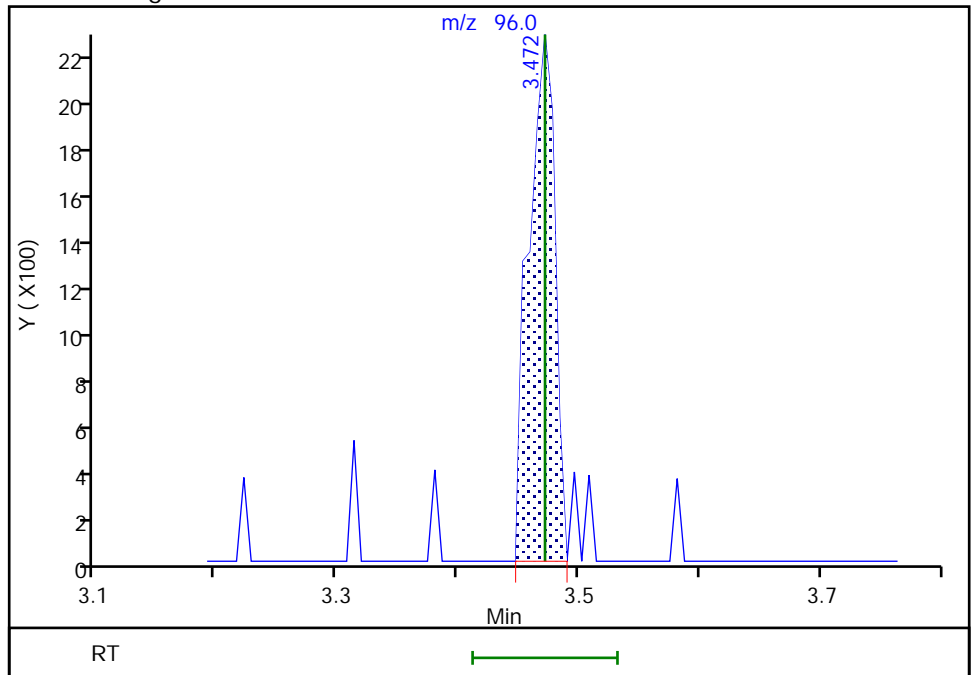
RT: 3.47
Area: 3715
Amount: 0.359577
Amount Units: ug/L

Processing Integration Results



RT: 3.47
Area: 3437
Amount: 0.332669
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 15:15:29
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

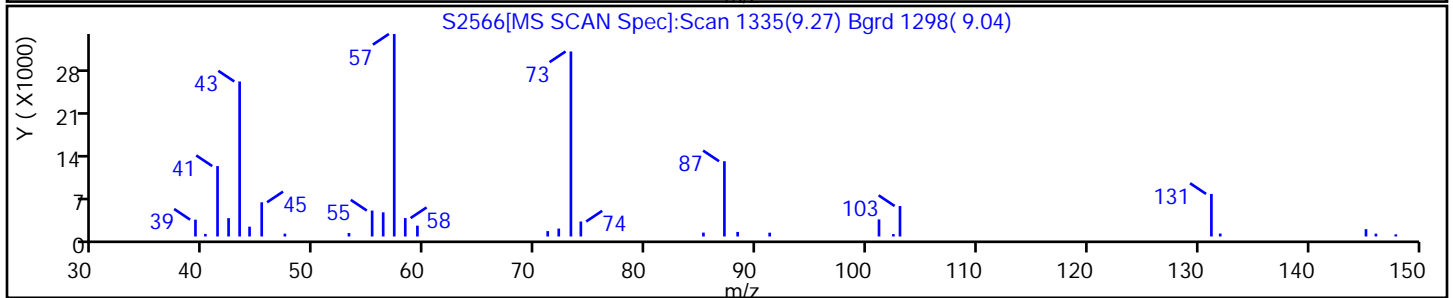
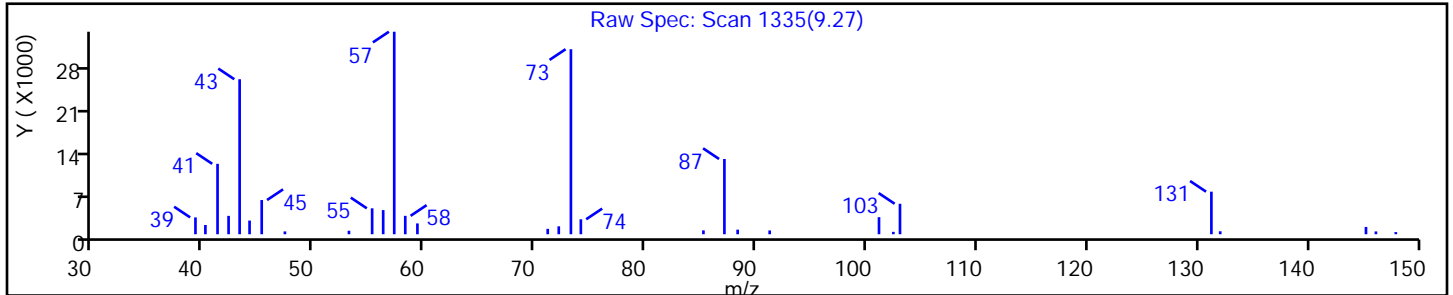
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

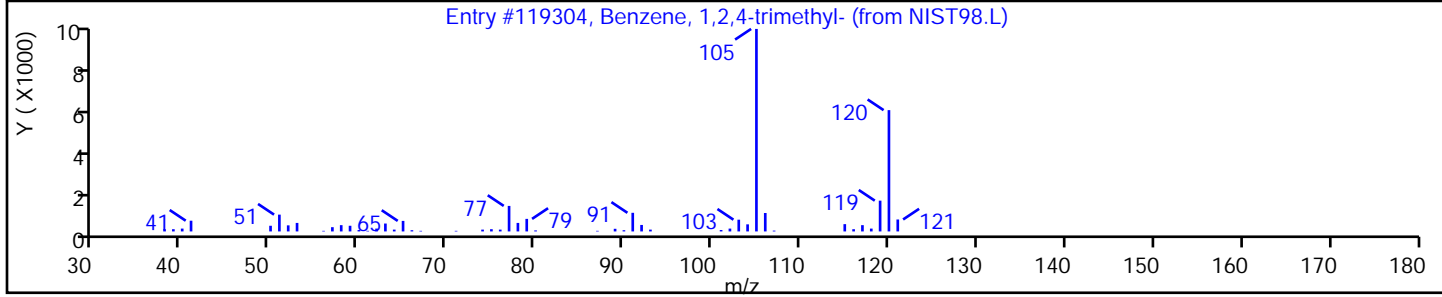
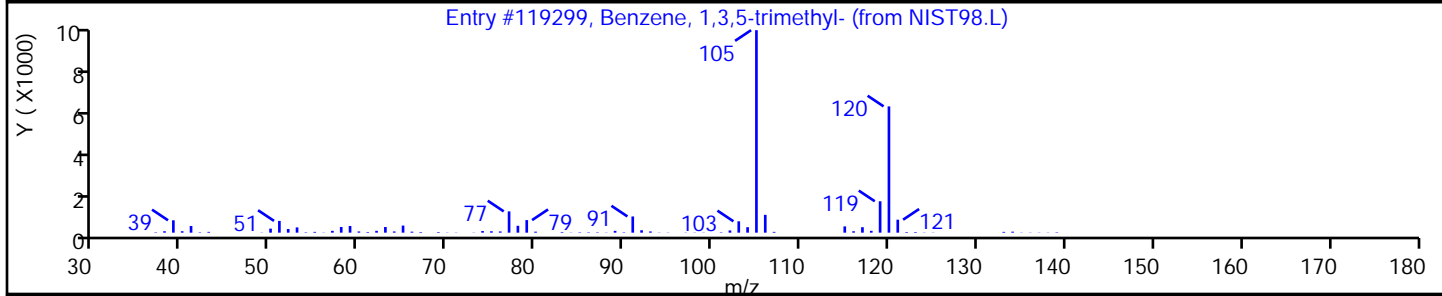
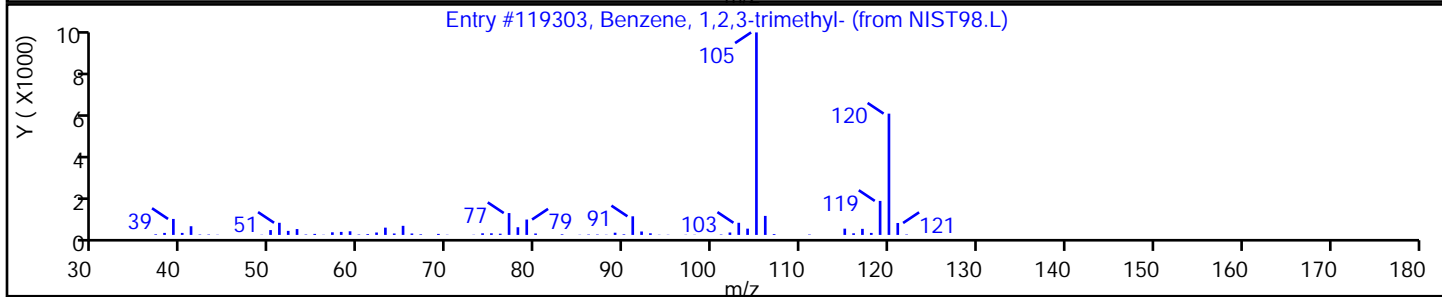
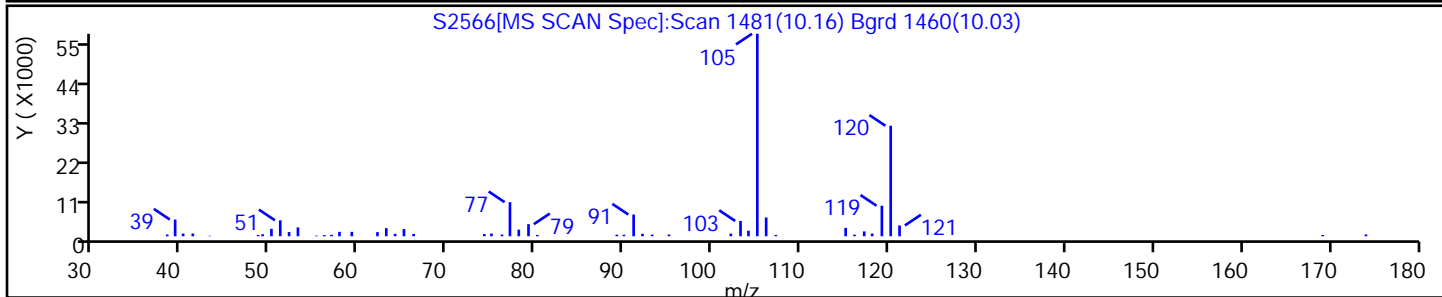
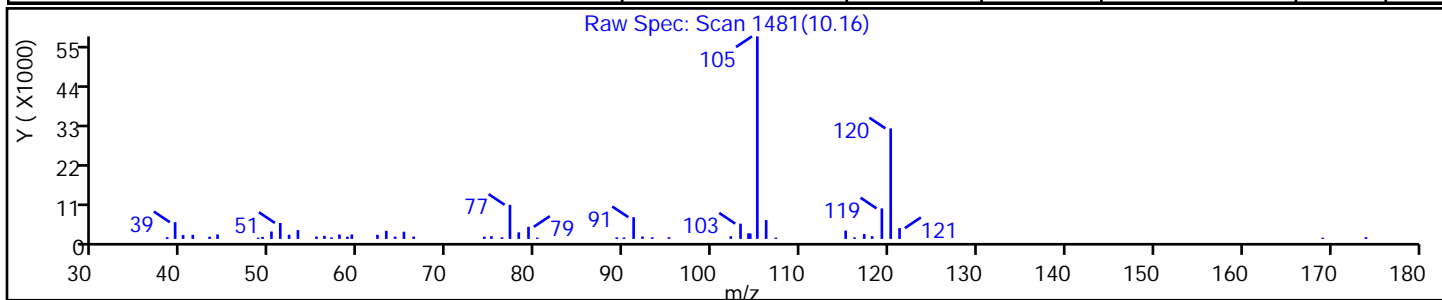
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	94
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

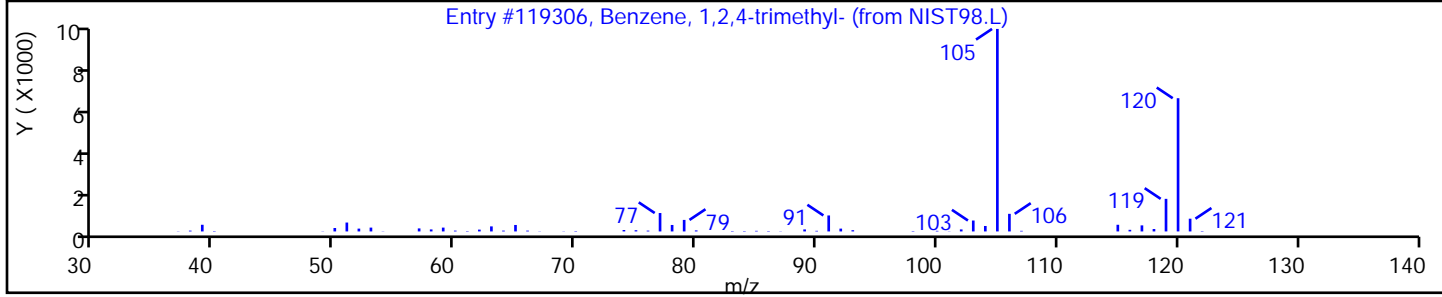
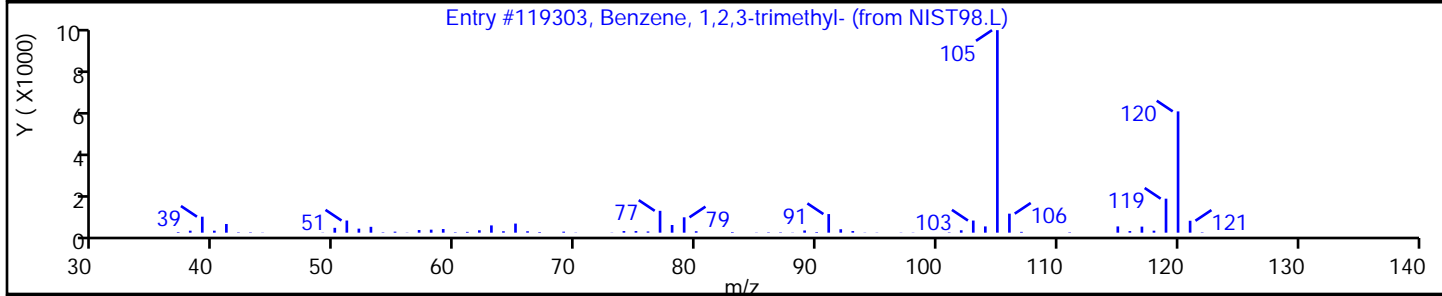
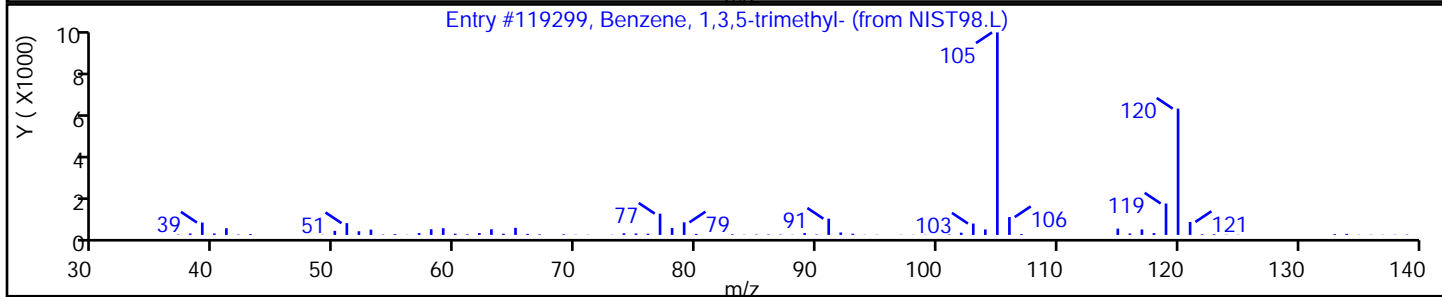
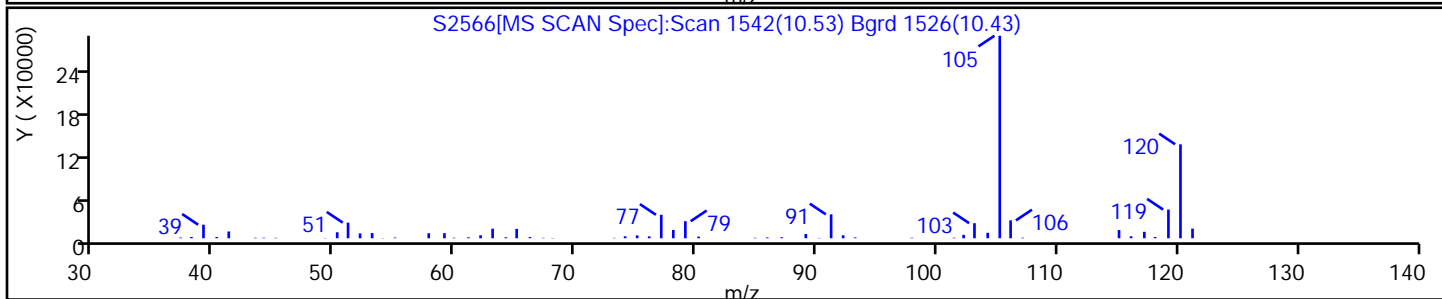
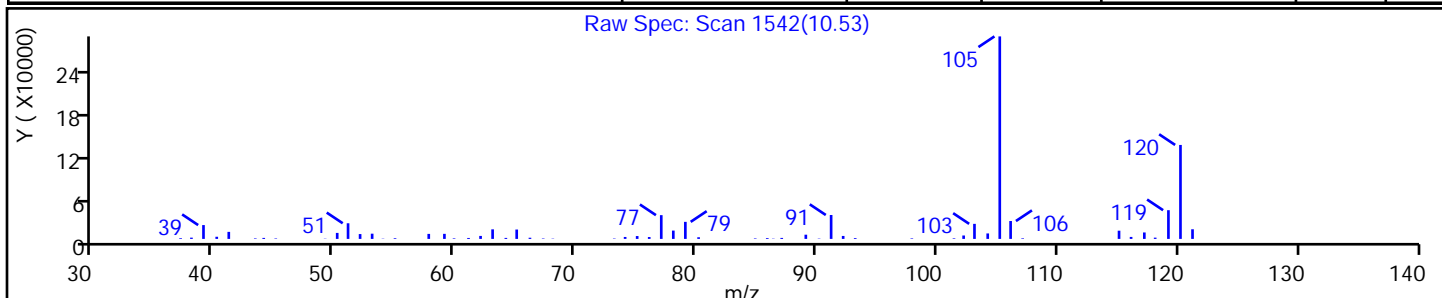
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	97
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119306	C9H12	120	94



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

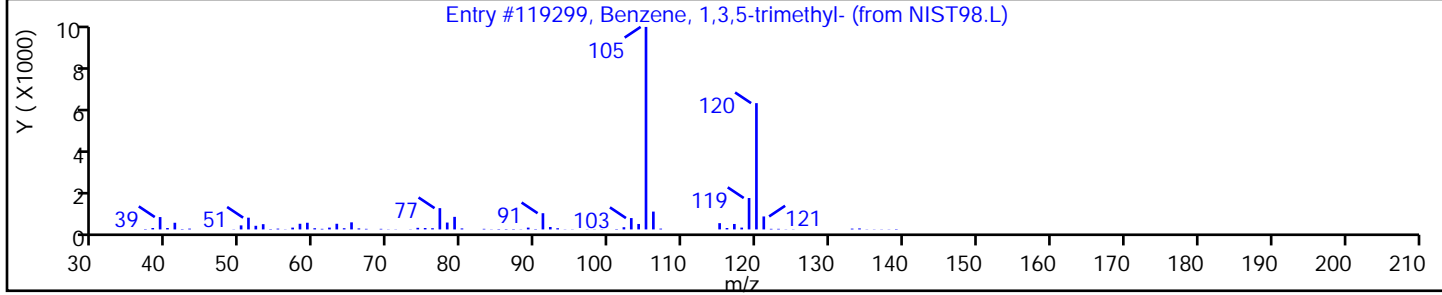
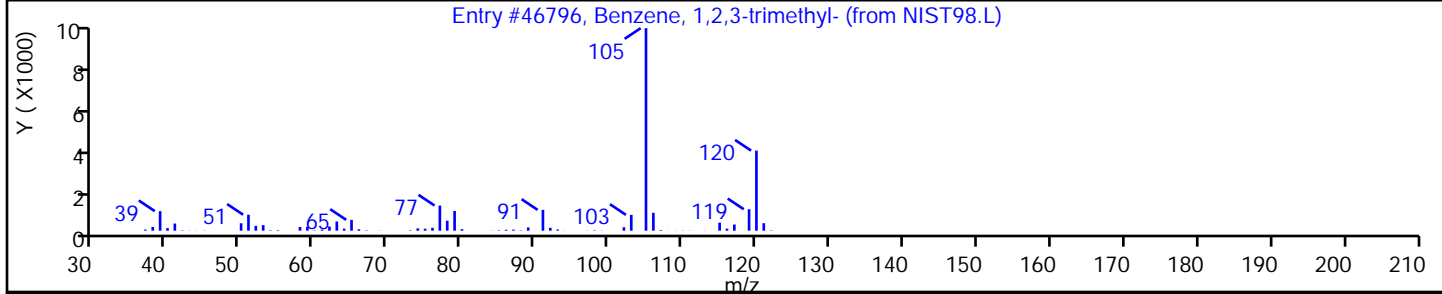
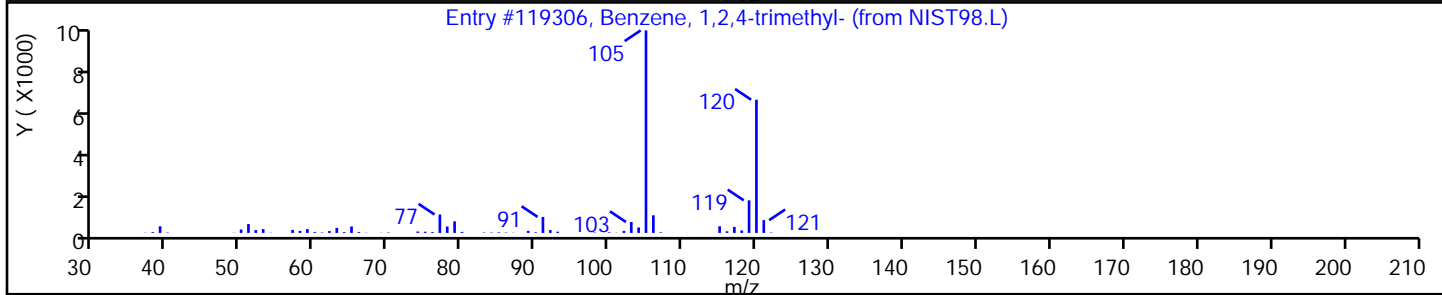
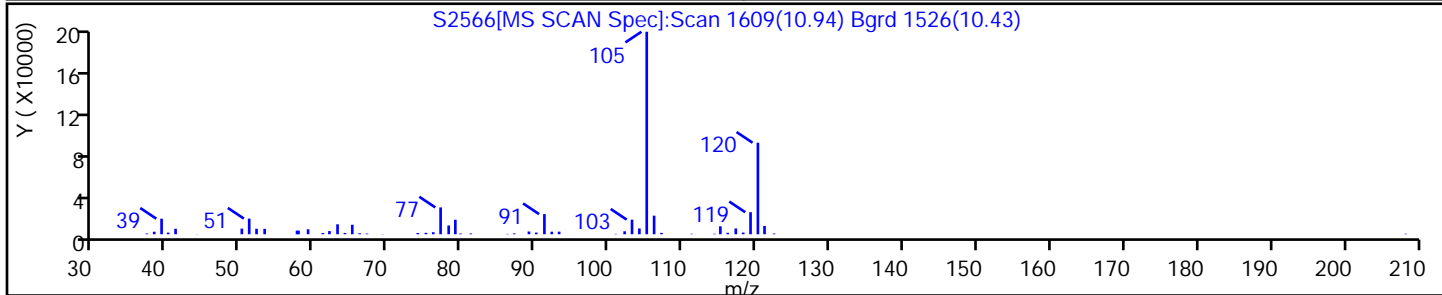
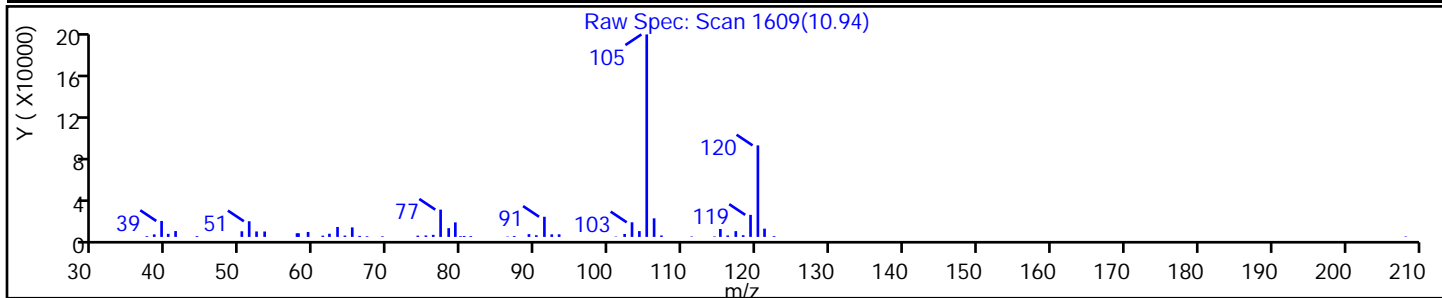
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119306	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	46796	C9H12	120	94
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	93



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2566.D

Injection Date: 21-Jun-2018 21:59:30

Instrument ID: HP5973S

Lims ID: 480-137434-C-3

Lab Sample ID: 480-137434-3

Client ID: DUPE

Operator ID: KN

ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

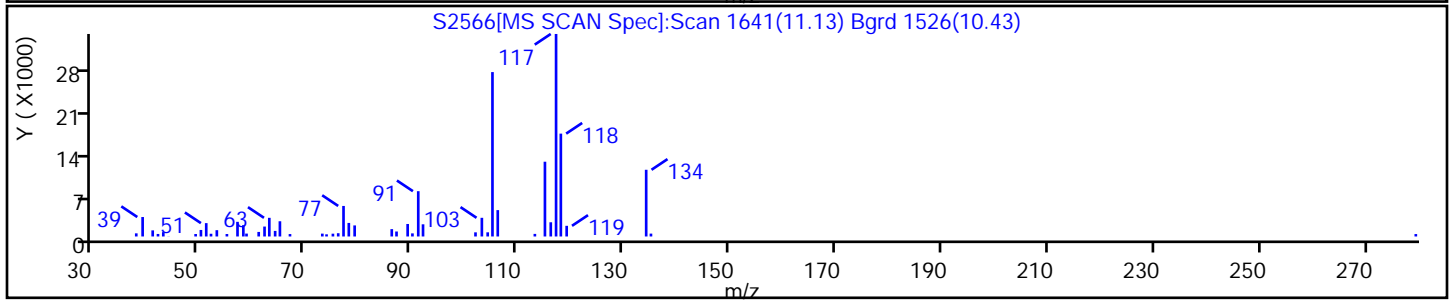
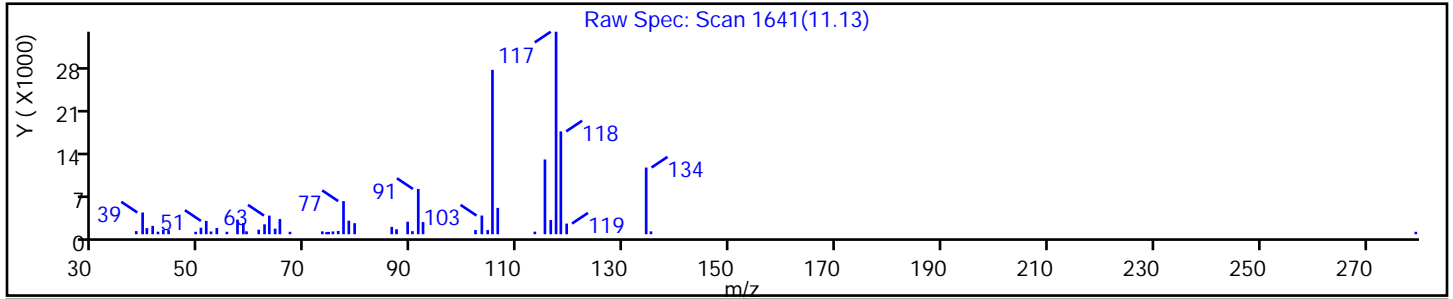
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

No Library Matches Found above the Threshold: 85



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.0665	0.9361	0.9453	1.4718	1.2318	Ave		1.2041			0.1000	17.1	20.0				
	1.2589	1.4448	1.2775														
Chloromethane	1.7623	1.9509	1.9350	2.0155	1.9350	Ave		1.9125			0.1000	4.3	20.0				
	1.9306	1.9553	1.8158														
Vinyl chloride	1.6568	1.5657	1.6230	1.8470	1.6612	Ave		1.7007			0.1000	6.3	20.0				
	1.6908	1.8763	1.6849														
Butadiene	1.8620	1.7965	1.7020	1.9156	1.7306	Ave		1.7737				5.5	20.0				
	1.6494	1.8564	1.6775														
Bromomethane	0.9917	0.9861	0.8069	0.9617	0.8612	Ave		0.9114			0.1000	7.3	20.0				
	0.8747	0.9359	0.8729														
Chloroethane	++++	1.0152	0.9560	1.1014	0.9788	Ave		1.0294			0.1000	5.4	20.0				
	1.0362	1.1005	1.0175														
Trichlorofluoromethane	1.3514	1.2497	1.5084	1.9155	1.5032	Ave		1.6115			0.1000	15.4	20.0				
	1.6874	1.9145	1.7620														
Dichlorofluoromethane	2.8785	2.4003	1.9931	2.4123	1.9710	Ave		2.2552				13.4	20.0				
	2.0907	2.1919	2.1039														
Ethyl ether	1.3529	1.2888	1.3634	1.5277	1.4614	Ave		1.4335				6.3	20.0				
	1.4756	1.5496	1.4488														
Acrolein	0.2835	0.2776	0.2421	0.2616	0.2595	Ave		0.2746				6.8	20.0				
	0.2882	0.2993	0.2849														
1,1,2-Trichloro-1,2,2-trifluoroethane	++++	0.5111	0.7470	1.0940	1.0244	Lin1	-0.369	0.9933			0.1000			0.9980		0.9900	
	0.9341	0.9461	1.0076														
1,1-Dichloroethene	0.8917	0.7505	1.1564	1.2655	1.1826	Ave		1.1043			0.1000	16.5	20.0				
	1.1648	1.2089	1.2140														
Acetone	++++	0.5585	0.5654	0.4830	0.4216	Ave		0.4810			0.1000	12.5	20.0				
	0.4184	0.4700	0.4500														
Iodomethane	1.2009	1.2126	1.4497	1.7945	1.7071	Ave		1.6150				17.9	20.0				
	1.7612	1.8969	1.8973														

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	3.3950 3.5530	2.7999 3.8268	3.4659 3.7169	3.9148	3.4911	Ave		3.5204		0.1000	9.8		20.0				
Allyl chloride	2.6942 2.0957	1.6922 2.1931	2.1081 2.1248	2.3194	1.9001	Ave		2.1409			13.7		20.0				
Methyl acetate	1.3560 1.1196	1.1715 1.2779	1.4665 1.2157	1.3271	1.1675	Ave		1.2627		0.1000	9.2		20.0				
Methylene Chloride	6.4996 1.4449	3.4907 1.4330	2.6242 1.3806	1.9329	1.5594	Lin1	2.4473	1.3618		0.1000				0.9990		0.9900	
2-Methyl-2-propanol	++++ 0.1557	0.1363 0.1769	0.1472 0.1960	0.1598	0.1689	Ave		0.1630			12.1		20.0				
Methyl tert-butyl ether	4.1375 4.2209	3.7459 4.3401	4.1817 4.1626	4.2685	4.0491	Ave		4.1383		0.1000	4.4		20.0				
trans-1,2-Dichloroethene	1.0514 1.2945	1.1406 1.3219	1.2992 1.2872	1.4285	1.2872	Ave		1.2638		0.1000	9.2		20.0				
Acrylonitrile	0.6220 0.6716	0.6885 0.7132	0.6792 0.6639	0.6531	0.6780	Ave		0.6712			4.0		20.0				
Hexane	2.2114 2.2652	2.0959 2.4442	2.1205 2.4309	2.7772	2.2960	Ave		2.3302			9.5		20.0				
1,1-Dichloroethane	2.5389 2.6549	2.3884 2.7780	2.7132 2.6860	2.8305	2.7092	Ave		2.6624		0.2000	5.3		20.0				
Vinyl acetate	2.9127 3.1221	3.1111 3.0557	3.1275 2.8332	3.2000	3.1953	Ave		3.0697			4.3		20.0				
2,2-Dichloropropane	1.3363 1.5114	1.2926 1.5386	1.4757 1.5408	1.6651	1.4425	Ave		1.4754			8.1		20.0				
cis-1,2-Dichloroethene	1.3250 1.5154	1.2193 1.5485	1.3895 1.5021	1.5820	1.5363	Ave		1.4523		0.1000	8.8		20.0				
2-Butanone (MEK)	0.8114 0.7283	0.7148 0.7480	0.7158 0.7457	0.7321	0.7126	Ave		0.7386		0.1000	4.4		20.0				
Chlorobromomethane	0.5523 0.7433	0.6218 0.7417	0.7106 0.7173	0.7721	0.6916	Ave		0.6939			10.5		20.0				
Tetrahydrofuran	0.5100 0.5143	0.5916 0.5038	0.4911 0.5042	0.4629	0.4823	Ave		0.5075			7.5		20.0				
Chloroform	2.2184 2.2511	2.3256 2.3574	2.3450 2.2735	2.5367	2.2740	Ave		2.3227		0.2000	4.3		20.0				
1,1,1-Trichloroethane	1.6807 1.7550	1.4931 1.8613	1.6427 1.8405	1.8985	1.6762	Ave		1.7310		0.1000	7.8		20.0				
Cyclohexane	2.1504 2.4488	1.8163 2.5917	2.1665 2.6545	2.4471	2.3534	Ave		2.3286		0.1000	11.8		20.0				
Carbon tetrachloride	1.1105 1.5222	1.1651 1.6554	1.5214 1.6186	1.5803	1.4305	Ave		1.4505		0.1000	14.1		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.8731 1.7168	1.4205 1.8558	1.8938 1.8328	1.8298	1.6916	Ave		1.7643			8.9		20.0				
Benzene	5.1942 5.3896	4.7117 5.5287	5.2823 5.2725	5.7352	5.3147	Ave		5.3036		0.5000	5.6		20.0				
Isobutyl alcohol	0.0671 0.0668	0.0622 0.0750	0.0700 0.0764	0.0628	0.0685	Ave		0.0686			7.5		20.0				
1,2-Dichloroethane	2.0805 2.1099	2.0699 2.1793	2.2191 2.0867	2.2540	2.1430	Ave		2.1428		0.1000	3.2		20.0				
n-Heptane	2.3209 2.1075	1.9690 2.1545	2.1019 2.1373	2.4588	2.0887	Ave		2.1673			7.0		20.0				
Trichloroethene	1.3177 1.3771	1.1544 1.4170	1.3587 1.4162	1.5440	1.3610	Ave		1.3683		0.2000	8.0		20.0				
Methylcyclohexane	1.7990 2.1533	1.5990 2.3276	1.9460 2.2773	2.4588	2.1083	Ave		2.0837		0.1000	13.8		20.0				
1,2-Dichloropropane	1.4365 1.5812	1.5517 1.6696	1.6624 1.5781	1.6836	1.6365	Ave		1.6000		0.1000	5.1		20.0				
Dibromomethane	0.7897 0.8553	0.7556 0.8807	0.7750 0.8684	0.8635	0.8943	Ave		0.8353		0.1000	6.4		20.0				
1,4-Dioxane	++++ 0.0058	0.0019 0.0058	0.0036 0.0055	0.0043	0.0058	Lin1	-0.075	0.0057						0.9980		0.9900	
Bromodichloromethane	1.3255 1.7458	1.3019 1.8412	1.4534 1.8150	1.7492	1.6384	Ave		1.6088		0.2000	13.6		20.0				
2-Chloroethyl vinyl ether	0.8987 1.1430	1.0935 1.1740	0.9247 1.1354	1.0863	1.0857	Ave		1.0677			9.5		20.0				
cis-1,3-Dichloropropene	1.7113 2.1494	1.7018 2.2435	1.9021 2.1801	2.1612	2.1330	Ave		2.0228		0.2000	10.8		20.0				
4-Methyl-2-pentanone (MIBK)	0.8176 0.7887	0.7729 0.7775	0.8747 0.7119	0.8128	0.8291	Ave		0.7981		0.1000	6.0		20.0				
Toluene	1.4932 1.6238	1.5773 1.7040	1.7421 1.7063	1.7553	1.6931	Ave		1.6619		0.4000	5.4		20.0				
trans-1,3-Dichloropropene	0.7668 0.9648	0.7879 1.0144	0.8905 1.0454	0.8818	0.9722	Ave		0.9155		0.1000	11.1		20.0				
Ethyl methacrylate	0.6799 0.9439	0.8300 0.9611	0.9006 0.9825	0.9328	0.9491	Ave		0.8975			11.1		20.0				
1,1,2-Trichloroethane	0.4116 0.4978	0.4735 0.5176	0.5613 0.5217	0.5195	0.5023	Ave		0.5007		0.1000	8.8		20.0				
Tetrachloroethene	0.6925 0.6880	0.6277 0.7351	0.6985 0.7322	0.7337	0.7060	Ave		0.7017		0.2000	5.1		20.0				
1,3-Dichloropropane	0.9225 1.0482	1.0197 1.0980	1.1380 1.0980	1.0186	1.1041	Ave		1.0559			6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.5897 0.5765	0.5749 0.5711	0.6269 0.5367	0.6138	0.6103	Ave		0.5875			0.1000	4.9	20.0				
Dibromochloromethane	0.3992 0.6085	0.4622 0.6535	0.5746 0.6922	0.5631	0.6019	Ave		0.5694			0.1000	17.0	20.0				
1,2-Dibromoethane	0.5204 0.6216	0.6798 0.6443	0.6333 0.6522	0.6498	0.6452	Ave		0.6308				7.6	20.0				
Chlorobenzene	1.8118 1.7992	1.5610 1.8673	1.9020 1.8548	1.9177	1.8555	Ave		1.8212			0.5000	6.2	20.0				
Ethylbenzene	2.6561 2.9895	2.6563 3.0996	3.2172 2.9793	3.2411	3.1222	Ave		2.9952			0.1000	7.6	20.0				
1,1,1,2-Tetrachloroethane	0.4433 0.6070	0.5314 0.6466	0.6090 0.6704	0.5787	0.6253	Ave		0.5890				12.3	20.0				
m-Xylene & p-Xylene	1.2373 1.1561	1.1556 1.2284	1.2508 1.2629	1.2609	1.1952	Ave		1.2184			0.1000	3.6	20.0				
o-Xylene	1.0045 1.1613	0.9780 1.2163	1.2332 1.2250	1.2192	1.2136	Ave		1.1564			0.3000	9.0	20.0				
Styrene	1.8152 2.0224	1.6328 2.1117	2.0436 2.1105	2.0942	2.0471	Ave		1.9847			0.3000	8.6	20.0				
Bromoform	0.2877 0.3850	0.3141 0.4304	0.3156 0.4701	0.3317	0.3750	Ave		0.3637			0.1000	17.4	20.0				
Isopropylbenzene	2.8187 3.2334	2.6604 3.2502	3.2717 3.1740	3.5120	3.2946	Ave		3.1519			0.1000	8.8	20.0				
Bromobenzene	0.7185 0.8335	0.6972 0.8144	0.8005 0.8430	0.8368	0.8355	Ave		0.7974				7.2	20.0				
1,1,2,2-Tetrachloroethane	0.8554 0.8631	0.7756 0.8499	0.8473 0.8656	0.9010	0.8934	Ave		0.8564			0.3000	4.4	20.0				
N-Propylbenzene	3.3950 3.7788	3.0422 3.7479	3.7585 3.5471	4.0917	3.8709	Ave		3.6540				8.8	20.0				
1,2,3-Trichloropropane	0.2961 0.2956	0.2105 0.2987	0.2592 0.2930	0.2999	0.3025	Ave		0.2819				11.3	20.0				
trans-1,4-Dichloro-2-butene	++++ 0.3124	0.1809 0.3116	0.2095 ++++	0.2457	0.2760	Lin1	-0.183	0.3127						0.9980		0.9900	
2-Chlorotoluene	0.9499 0.7905	0.6127 0.7783	0.7784 0.7925	0.8076	0.7823	Ave		0.7865				11.5	20.0				
1,3,5-Trimethylbenzene	2.6880 2.7560	2.4032 2.7485	2.7675 2.6995	2.8892	2.9233	Ave		2.7344				5.8	20.0				
4-Chlorotoluene	0.6916 0.8473	0.6714 0.8358	0.8732 0.8485	0.8432	0.8364	Ave		0.8059				9.7	20.0				
tert-Butylbenzene	0.4442 0.6248	0.4824 0.6328	0.5740 0.6377	0.6554	0.6120	Ave		0.5829				13.4	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	2.6497 2.9289	2.2643 2.8720	2.8780 2.7535	3.0114	2.9833	Ave		2.7927			8.7		20.0				
sec-Butylbenzene	3.1348 3.3954	2.7032 3.3821	3.3932 3.2799	3.5159	3.4256	Ave		3.2788			7.9		20.0				
1,3-Dichlorobenzene	1.5074 1.5713	1.3706 1.5679	1.6123 1.5509	1.6125	1.6026	Ave		1.5494		0.6000	5.2		20.0				
4-Isopropyltoluene	2.5737 2.9925	2.1476 2.9966	2.8678 2.8440	3.1091	3.0448	Ave		2.8220			11.3		20.0				
1,4-Dichlorobenzene	1.3127 1.5924	1.5619 1.5765	1.6568 1.5808	1.7201	1.6378	Ave		1.5799		0.5000	7.6		20.0				
n-Butylbenzene	2.1891 2.7229	2.0400 2.6514	2.6980 2.5836	2.8037	2.6684	Ave		2.5446			10.8		20.0				
1,2-Dichlorobenzene	1.3859 1.5321	1.4084 1.5247	1.5498 1.5112	1.6559	1.6346	Ave		1.5253		0.4000	6.2		20.0				
1,2-Dibromo-3-Chloropropane	0.1861 0.1811	0.1318 0.1863	0.1428 0.1854	0.1507	0.1653	Ave		0.1662		0.0500	13.2		20.0				
1,2,4-Trichlorobenzene	0.9478 1.1265	0.9110 1.1573	1.1771 1.1556	1.0821	1.1198	Ave		1.0847		0.2000	9.3		20.0				
Hexachlorobutadiene	0.5332 0.5343	0.3840 0.5453	0.5260 0.5664	0.5353	0.5245	Ave		0.5186			10.8		20.0				
Naphthalene	2.5334 3.2095	2.6074 3.1917	2.9880 3.0480	2.9747	3.1673	Ave		2.9650			8.8		20.0				
1,2,3-Trichlorobenzene	0.7843 1.0767	0.8587 1.0732	0.9477 1.1030	1.0666	1.0923	Ave		1.0003			12.2		20.0				
Dibromofluoromethane (Surr)	1.1790 1.1858	1.1799 1.2727	1.1679 1.2115	1.2117	1.1648	Ave		1.1967			3.0		20.0				
1,2-Dichloroethane-d4 (Surr)	0.7678 0.7917	0.7976 0.8218	0.7565 0.7458	0.8347	0.7500	Ave		0.7832			4.3		20.0				
Toluene-d8 (Surr)	2.4473 2.3886	2.4261 2.4587	2.5049 2.3969	2.4292	2.4265	Ave		2.4348			1.5		20.0				
4-Bromofluorobenzene (Surr)	0.7361 0.7460	0.7584 0.7652	0.7525 0.7580	0.7431	0.7227	Ave		0.7477			1.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4246 248186	7348 556127	15348 1042243	57375	100661	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	7016 380591	15313 752596	31418 1481396	78570	158120	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	6596 333324	12290 722212	26352 1374584	72004	135746	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7413 325163	14101 714525	27634 1368549	74679	141422	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3948 172433	7740 360223	13102 712144	37490	70373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 204270	7969 423584	15522 830061	42938	79988	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5380 332653	9809 736903	24492 1437497	74675	122840	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11460 412155	18841 843653	32362 1716432	94040	161069	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5386 290892	10116 596459	22137 1181934	59556	119421	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	5643 284078	10896 575962	19651 1162249	50983	106044	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin1	++++ 184140	4012 364156	12129 822020	42648	83709	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	3550 229631	5891 465301	18776 990419	49334	96639	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 412424	21919 904483	45897 1835772	94147	172269	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4781 347195	9518 730136	23539 1547832	69957	139498	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13516 700429	21977 1472959	56275 3032330	152614	285284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	10726 413143	13283 844115	34229 1733446	90419	155269	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	10797 441430	18391 983740	47623 1983551	103471	190812	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	25876 284846	27400 551561	42609 1126336	75350	127431	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	++++ 307003	10697 680866	23908 1598960	62295	137981	++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	16472 832097	29403 1670515	67897 3395940	166404	330882	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4186 255195	8953 508786	21095 1050113	55688	105184	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	24762 1323936	54039 2745107	110281 5416558	254614	554059	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	8804 446557	16451 940801	34429 1983165	108267	187621	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	10108 523385	18747 1069251	44053 2191279	110345	221389	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	23192 1230989	48840 2352331	101560 4622714	249498	522220	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5320 297960	10146 592229	23960 1257016	64910	117878	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5275 298747	9571 596033	22561 1225447	61673	125542	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	16151 717854	28054 1439504	58111 3041661	142709	291158	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2199 146527	4881 285479	11538 585187	30101	56519	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	4061 202767	9288 387841	15949 822605	36094	78819	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	8832 443774	18254 907363	38075 1854730	98890	185827	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6691 345970	11720 716429	26672 1501541	74012	136975	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	8561 482758	14257 997545	35177 2165602	95397	192312	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4421 300091	9145 637175	24702 1320508	61607	116898	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	7457 338452	11150 714312	30749 1495256	71332	138232	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	20679 1062500	36984 2128022	85767 4301395	223580	434302	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	6683 329152	12199 721955	28420 1557611	61251	139911	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8283 415950	16247 838833	36030 1702374	87871	175124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	9240 415475	15455 829266	34128 1743611	95852	170684	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5246 271489	9061 545392	22060 1155378	60191	111214	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	7162 424498	12551 895898	31597 1857834	95854	172282	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	5719 311720	12180 642638	26992 1287446	65633	133728	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	3144 168616	5931 338999	12583 708426	33662	73081	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	++++ 46908	597 91625	2267 176888	6969	18780	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	5277 344167	10219 708669	23598 1480734	68190	133887	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3578 225325	8583 451891	15014 926261	42348	88719	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6813 423733	13358 863532	30883 1778596	84252	174306	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	32292 1601823	59826 3068632	137972 5759555	326171	670794	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	11795 659595	24418 1345091	54960 2760907	140875	273964	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6057 391909	12197 800744	28095 1691433	70774	157325	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5371 383401	12849 758693	28412 1589664	74867	153587	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3251 202209	7331 408565	17708 844173	41694	81284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5470 279490	9718 580239	22036 1184748	58888	114249	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7287 425777	15786 866770	35902 1776603	81753	178659	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	23291 1170919	44500 2254226	98893 4341846	246316	493778	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3153 247163	7156 515833	18127 1120056	45191	97396	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4111 252512	10524 508600	19979 1055354	52152	104411	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14312 730835	24166 1474031	60005 3001103	153908	300247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	20981 1214363	41123 2446781	101499 4820637	260118	505219	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3502 246580	8227 510400	19212 1084784	46444	101180	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	9774 469623	17890 969691	39460 2043355	101199	193403	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	7935 471745	15140 960148	38904 1982170	97848	196385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14339 821536	25278 1666910	64472 3414832	168072	331254	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2273 156408	4863 339740	9957 760638	26624	60675	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	20648 1180615	39437 2412885	97764 4783571	261022	487020	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	5263 304349	10335 604551	23921 1270447	62196	123511	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6266 315135	11498 630975	25318 1304499	66963	132068	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	24869 1379737	45097 2782295	112308 5345840	304106	572209	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2169 107926	3120 221749	7744 441615	22292	44716	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	++++ 114077	2682 231344	6261 ++++	18263	40802	++++ 25.0	1.00 50.0	2.00 ++++	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6958 288633	9082 577783	23261 1194322	60025	115644	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19690 1006297	35625 2040375	82695 4068375	214731	432135	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	5066 309390	9952 620467	26092 1278707	62670	123635	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3254 228134	7151 469785	17151 961000	48709	90461	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19410 1069434	33566 2132089	85998 4149841	223814	441006	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	22963 1239742	40072 2510799	101392 4943148	261311	506385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	11042 573712	20317 1163942	48178 2337298	119848	236904	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	18853 1092636	31836 2224584	85693 4286221	231080	450095	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,4-Dichlorobenzene	DCBd 4	Ave	9616 581426	23153 1170382	49506 2382476	127844	242101	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16036 994221	30240 1968301	80619 3893665	208379	394458	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10152 559407	20878 1131910	46309 2277520	123068	241629	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1363 66108	1954 138297	4266 279459	11203	24435	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	6943 411331	13505 859177	35174 1741646	80426	165528	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3906 195098	5693 404793	15718 853596	39788	77538	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	18558 1171879	38651 2369399	89284 4593666	221088	468207	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5745 393148	12729 796689	28319 1662277	79276	161462	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	234690 233776	231529 244934	237036 247091	236175	237971	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152837 156084	156518 158160	153545 152101	162701	153221	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	966595 970258	938964 970429	987838 969583	974777	981631	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	290734 303043	293518 302035	296734 306600	298183	292377	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Jun-2018 13:51:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0072482-005
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:34 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 17:24:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	199059	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394964	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	366264	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	57	234690	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	152837	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	966595	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	290734	25.0	24.6	
10 Dichlorodifluoromethane	85	1.300	1.282	0.018	1	4246	0.5000	0.4429	
12 Chloromethane	50	1.464	1.464	0.000	34	7016	0.5000	0.4607	
13 Vinyl chloride	62	1.562	1.549	0.013	21	6596	0.5000	0.4871	a
151 Butadiene	54	1.598	1.574	0.024	52	7413	0.5000	0.5249	Ma
14 Bromomethane	94	1.878	1.872	0.006	62	3948	0.5000	0.5440	
15 Chloroethane	64		1.969				ND	ND	U
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	31	5380	0.5000	0.4193	M
16 Dichlorofluoromethane	67	2.200	2.194	0.006	55	11460	0.5000	0.6382	Ma
18 Ethyl ether	59	2.498	2.492	0.006	52	5386	0.5000	0.4719	
20 Acrolein	56	2.693	2.687	0.006	32	5643	2.50	2.58	M
21 1,1,2-Trichloro-1,2,2-trif	101		2.705				ND	ND	U
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	28	3550	0.5000	0.4037	M
23 Acetone	43	2.851	2.851	0.000	93	13929	2.50	3.64	Ma
25 Iodomethane	142	2.894	2.894	0.000	16	4781	0.5000	0.3718	a
26 Carbon disulfide	76	2.918	2.918	0.000	85	13516	0.5000	0.4822	M
28 3-Chloro-1-propene	41	3.088	3.089	0.000	37	10726	0.5000	0.6292	M
27 Methyl acetate	43	3.143	3.143	0.000	85	10797	1.00	1.07	M
30 Methylene Chloride	84	3.253	3.253	0.000	91	25876	0.5000	0.5893	M
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	57	3836	5.00	2.96	M
32 Methyl tert-butyl ether	73	3.460	3.454	0.006	53	16472	0.5000	0.4999	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	60	4186	0.5000	0.4160	
33 Acrylonitrile	53	3.539	3.539	0.000	92	24762	5.00	4.63	
35 Hexane	57	3.660	3.660	0.000	68	8804	0.5000	0.4745	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	8	10108	0.5000	0.4768	
37 Vinyl acetate	43	3.946	3.952	-0.006	92	23192	1.00	0.9489	
44 2,2-Dichloropropane	77	4.409	4.415	-0.006	37	5320	0.5000	0.4529	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	30	5275	0.5000	0.4562	a
43 2-Butanone (MEK)	43	4.500	4.494	0.006	83	16151	2.50	2.75	
48 Chlorobromomethane	128	4.701	4.695	0.006	63	2199	0.5000	0.3980	
49 Tetrahydrofuran	42	4.719	4.713	0.006	57	4061	1.00	1.00	
50 Chloroform	83	4.768	4.774	-0.006	61	8832	0.5000	0.4776	
51 1,1,1-Trichloroethane	97	4.889	4.877	0.012	31	6691	0.5000	0.4855	
52 Cyclohexane	56	4.877	4.883	-0.006	45	8561	0.5000	0.4617	
55 Carbon tetrachloride	117	5.011	5.011	0.000	55	4421	0.5000	0.3828	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	61	7457	0.5000	0.5308	
57 Benzene	78	5.236	5.236	0.000	33	20679	0.5000	0.4897	
53 Isobutyl alcohol	43	5.272	5.266	0.006	34	6683	12.5	12.2	M
58 1,2-Dichloroethane	62	5.315	5.315	0.000	59	8283	0.5000	0.4855	
59 n-Heptane	43	5.406	5.412	-0.006	62	9240	0.5000	0.5354	M
62 Trichloroethene	95	5.844	5.850	-0.006	50	5246	0.5000	0.4815	
64 Methylcyclohexane	83	5.960	5.960	0.000	57	7162	0.5000	0.4317	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	41	5719	0.5000	0.4489	
67 Dibromomethane	93	6.240	6.234	0.006	69	3144	0.5000	0.4727	
66 1,4-Dioxane	88	6.258	6.246	0.012	8	485	10.0	18.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	23	5277	0.5000	0.4120	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	29	3578	0.5000	0.4209	
72 cis-1,3-Dichloropropene	75	6.812	6.806	0.006	47	6813	0.5000	0.4230	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	87	32292	2.50	2.56	M
74 Toluene	92	7.079	7.085	-0.006	60	11795	0.5000	0.4492	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	54	6057	0.5000	0.4188	M
75 Ethyl methacrylate	69	7.420	7.414	0.006	48	5371	0.5000	0.3788	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	20	3251	0.5000	0.4110	
81 Tetrachloroethene	166	7.621	7.615	0.006	53	5470	0.5000	0.4934	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	50	7287	0.5000	0.4368	
80 2-Hexanone	43	7.797	7.791	0.006	70	23291	2.50	2.51	
83 Chlorodibromomethane	129	7.961	7.961	0.000	7	3153	0.5000	0.3505	
84 Ethylene Dibromide	107	8.071	8.071	0.000	44	4111	0.5000	0.4125	
87 Chlorobenzene	112	8.545	8.539	0.006	18	14312	0.5000	0.4974	
88 Ethylbenzene	91	8.631	8.631	0.000	67	20981	0.5000	0.4434	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	21	3502	0.5000	0.3764	
90 m-Xylene & p-Xylene	106	8.758	8.752	0.006	0	9774	0.5000	0.5078	
91 o-Xylene	106	9.184	9.178	0.006	72	7935	0.5000	0.4343	
92 Styrene	104	9.209	9.209	0.000	67	14339	0.5000	0.4573	
95 Bromoform	173	9.470	9.464	0.006	1	2273	0.5000	0.3956	
94 Isopropylbenzene	105	9.561	9.561	0.000	72	20648	0.5000	0.4471	
101 Bromobenzene	156	9.914	9.908	0.006	52	5263	0.5000	0.4505	
97 1,1,2,2-Tetrachloroethane	83	9.975	9.969	0.006	11	6266	0.5000	0.4994	
99 N-Propylbenzene	91	9.981	9.987	-0.006	84	24869	0.5000	0.4646	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	21	2169	0.5000	0.5251	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	863	0.5000	0.7725	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	55	6958	0.5000	0.6038	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	60	19690	0.5000	0.4915	
105 4-Chlorotoluene	126	10.200	10.200	0.000	44	5066	0.5000	0.4291	
106 tert-Butylbenzene	134	10.474	10.474	0.000	63	3254	0.5000	0.3810	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	48	19410	0.5000	0.4744	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	52	22963	0.5000	0.4780	
111 1,3-Dichlorobenzene	146	10.833	10.827	0.006	46	11042	0.5000	0.4864	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	53	18853	0.5000	0.4560	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	34	9616	0.5000	0.4154	M
115 n-Butylbenzene	91	11.210	11.210	0.000	68	16036	0.5000	0.4301	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	64	10152	0.5000	0.4543	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	1	1363	0.5000	0.5598	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	29	6943	0.5000	0.4369	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	6	3906	0.5000	0.5141	M
121 Naphthalene	128	12.883	12.877	0.006	77	18558	0.5000	0.4272	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	36	5745	0.5000	0.3920	
S 123 Total BTEX	1				0			2.32	
S 125 1,2-Dichloroethene, Total	1				0			0.8722	
S 124 Xylenes, Total	1				0			0.9421	
S 126 1,3-Dichloropropene, Total	1				0			0.8418	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00128	Amount Added: 0.50	Units: uL	
GAS CORP mix_00287	Amount Added: 0.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D

Injection Date: 20-Jun-2018 13:51:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 0.5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

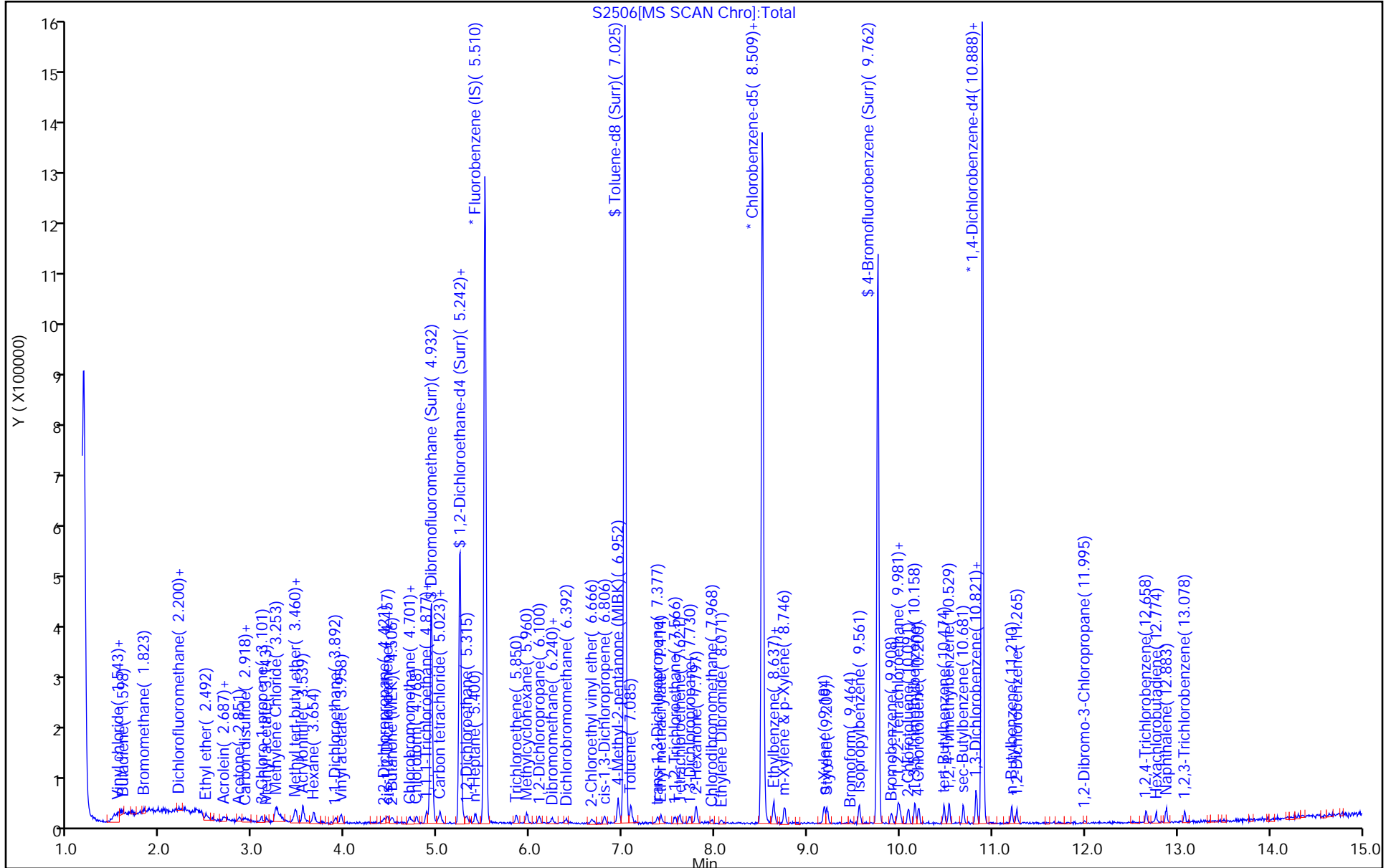
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

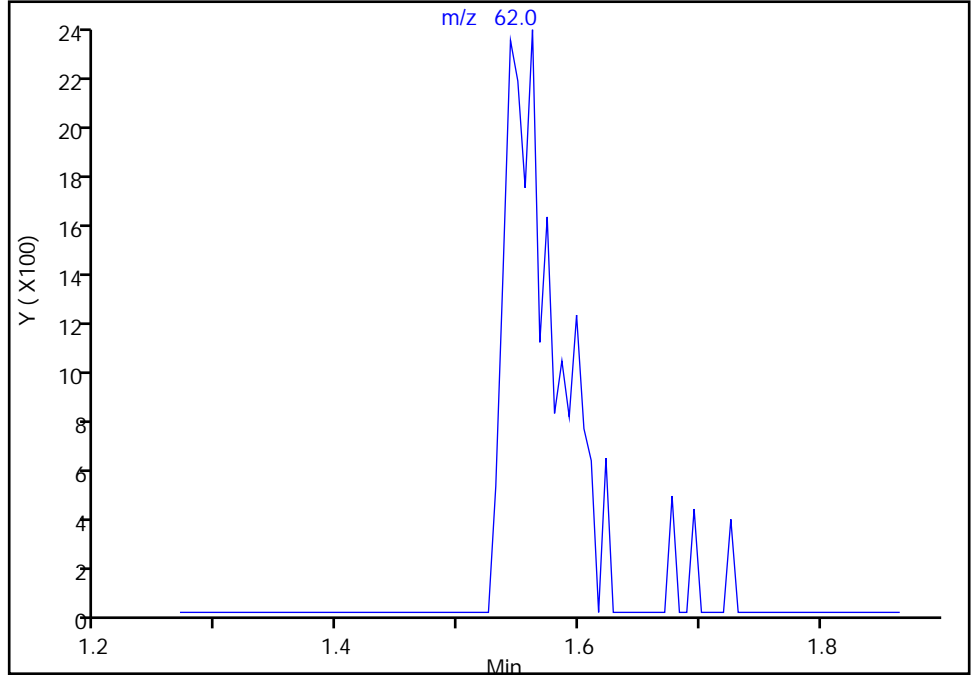
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

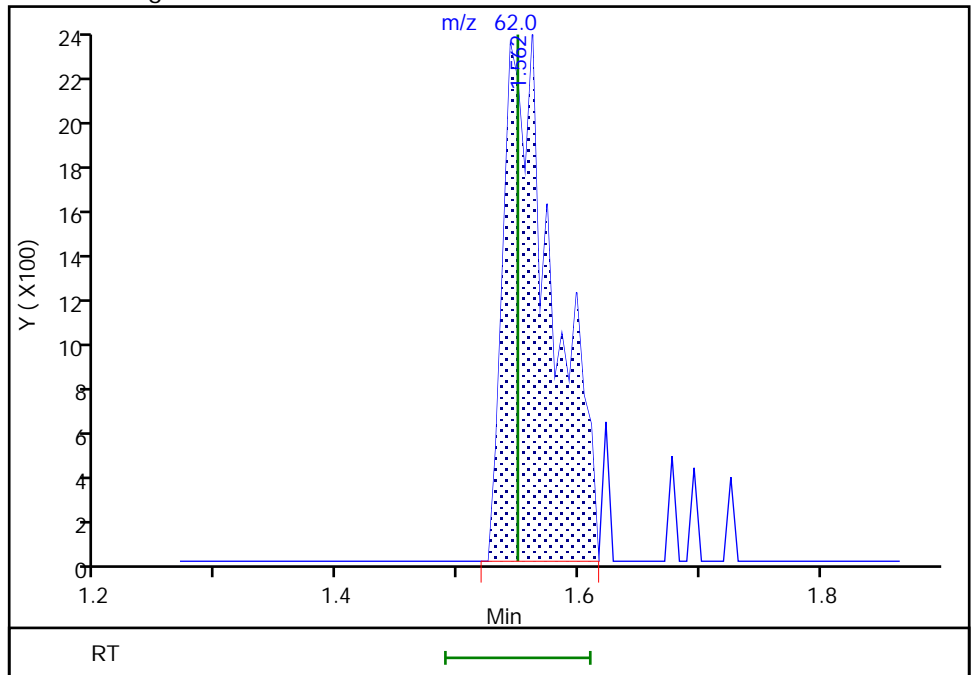
Not Detected
Expected RT: 1.55

Processing Integration Results



Manual Integration Results

RT: 1.56
Area: 6596
Amount: 0.487086
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:40:43
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

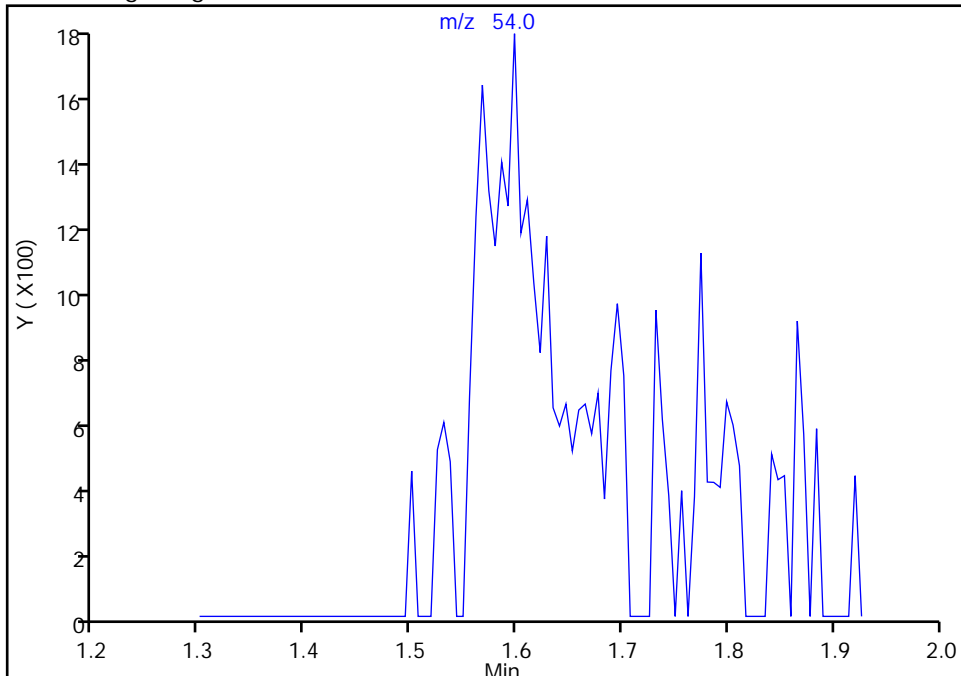
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

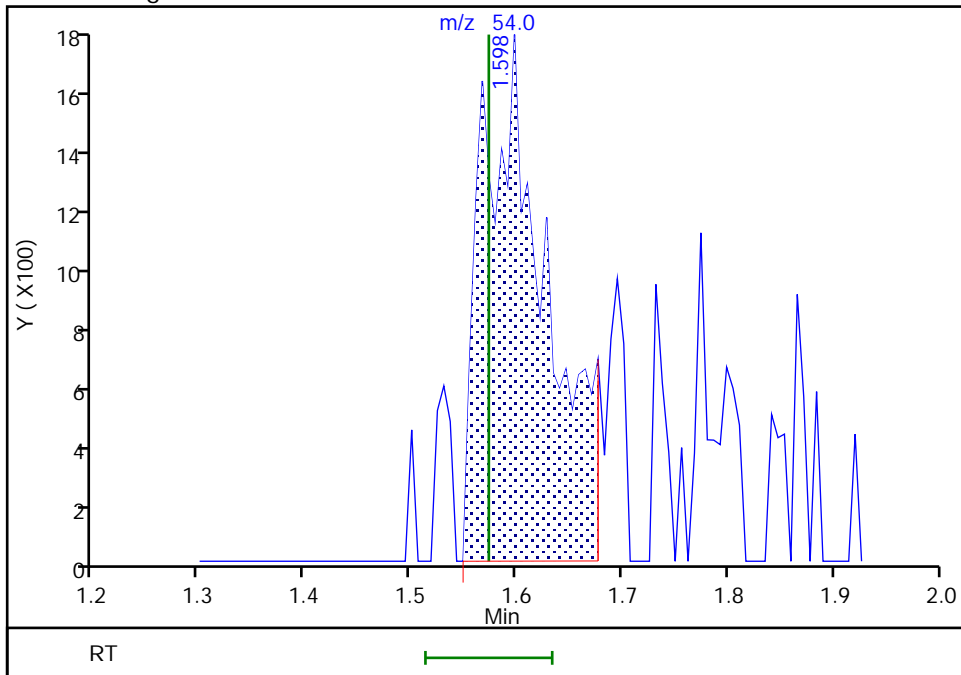
Not Detected
Expected RT: 1.57

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 7413
Amount: 0.524880
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:56:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

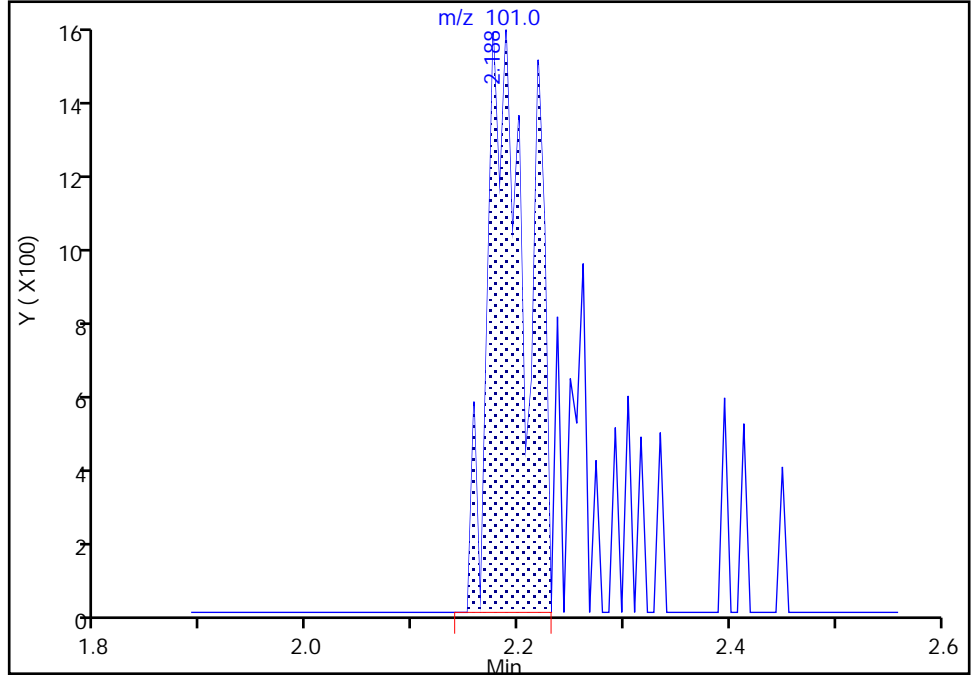
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

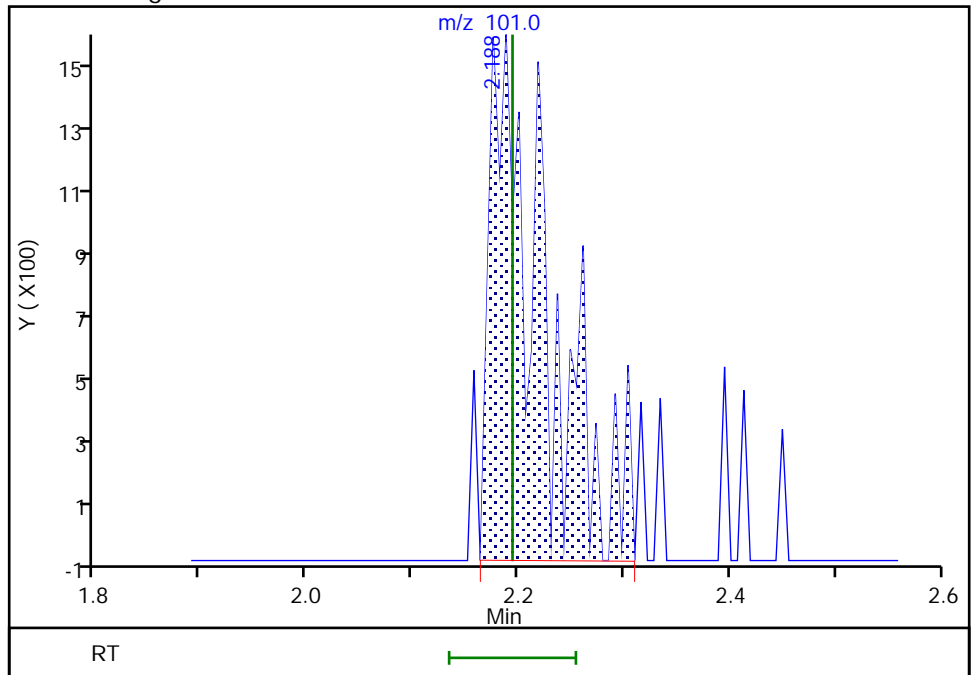
RT: 2.19
Area: 4042
Amount: 0.598811
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 5380
Amount: 0.419280
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:45:22
Audit Action: Manually Integrated

TestAmerica Buffalo

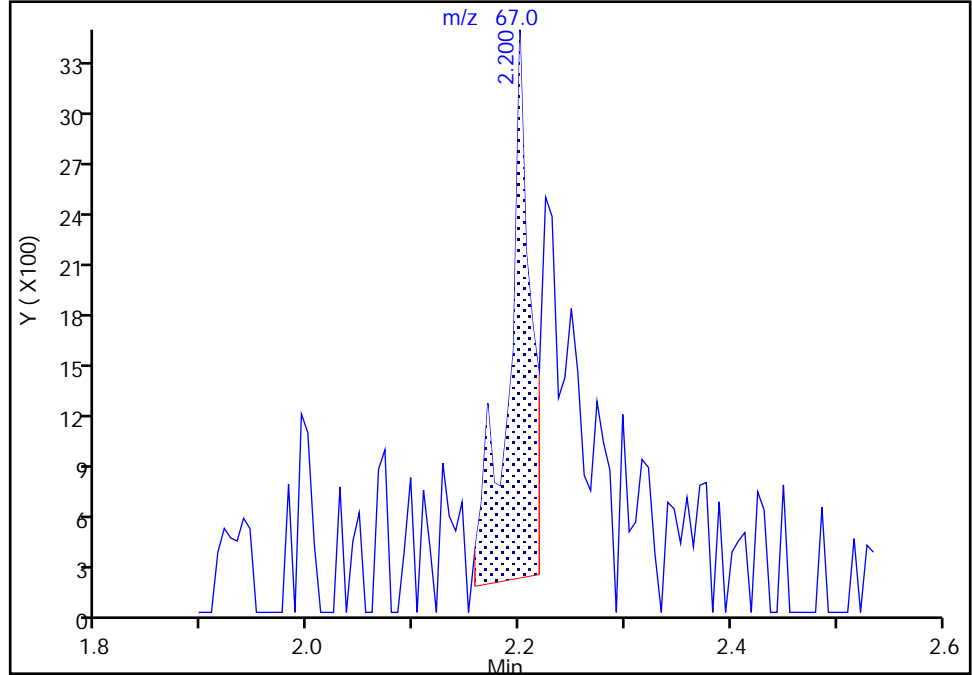
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

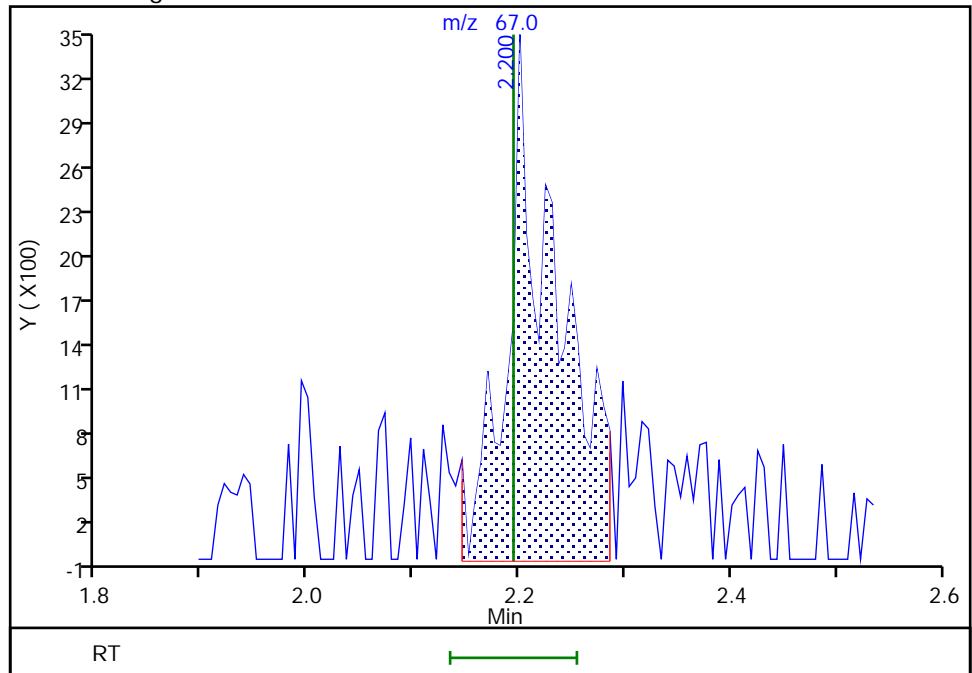
RT: 2.20
Area: 4764
Amount: 0.316635
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 11460
Amount: 0.638193
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:41:07
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

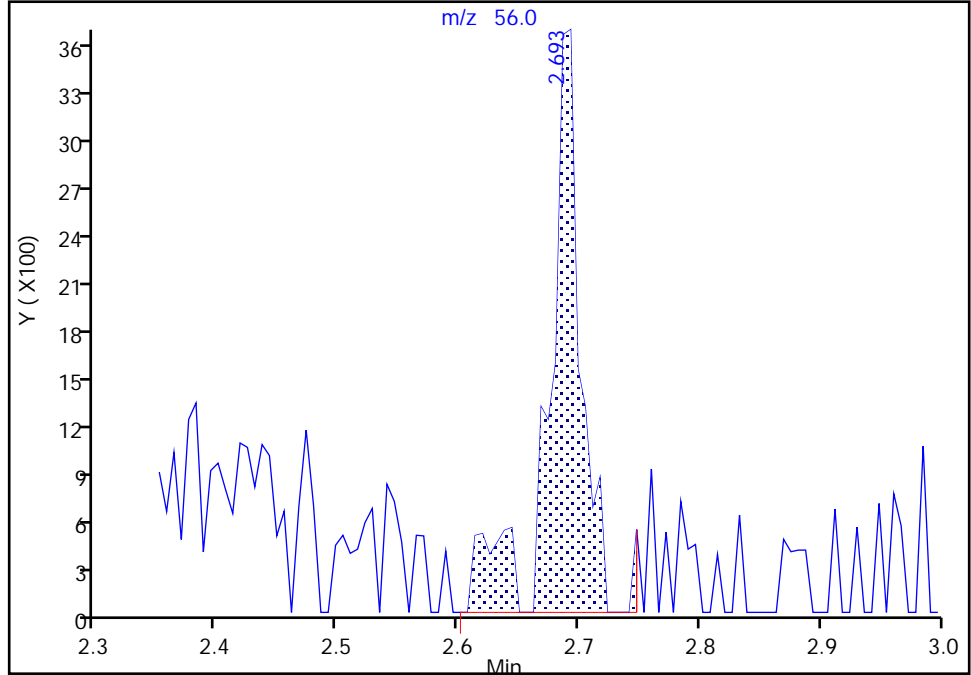
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

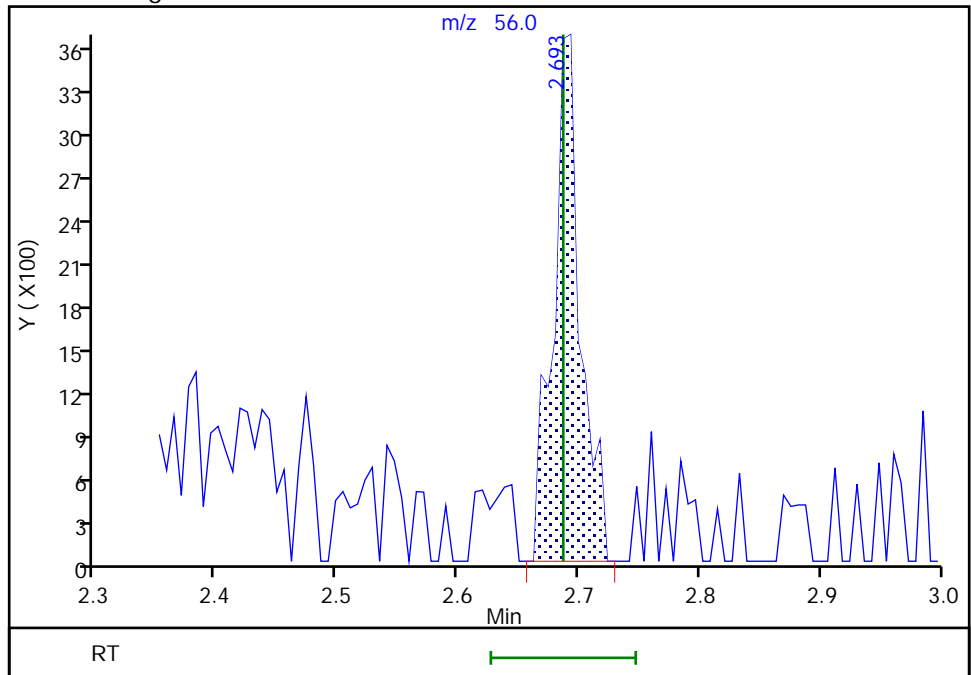
RT: 2.69
Area: 6846
Amount: 3.145829
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 5643
Amount: 2.581028
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:42:04
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

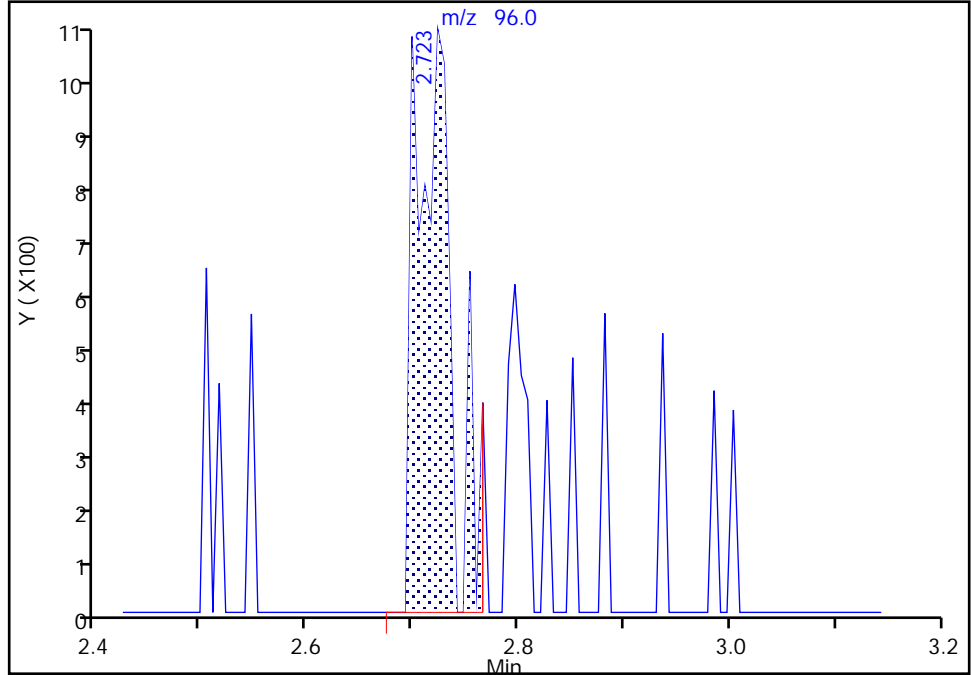
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

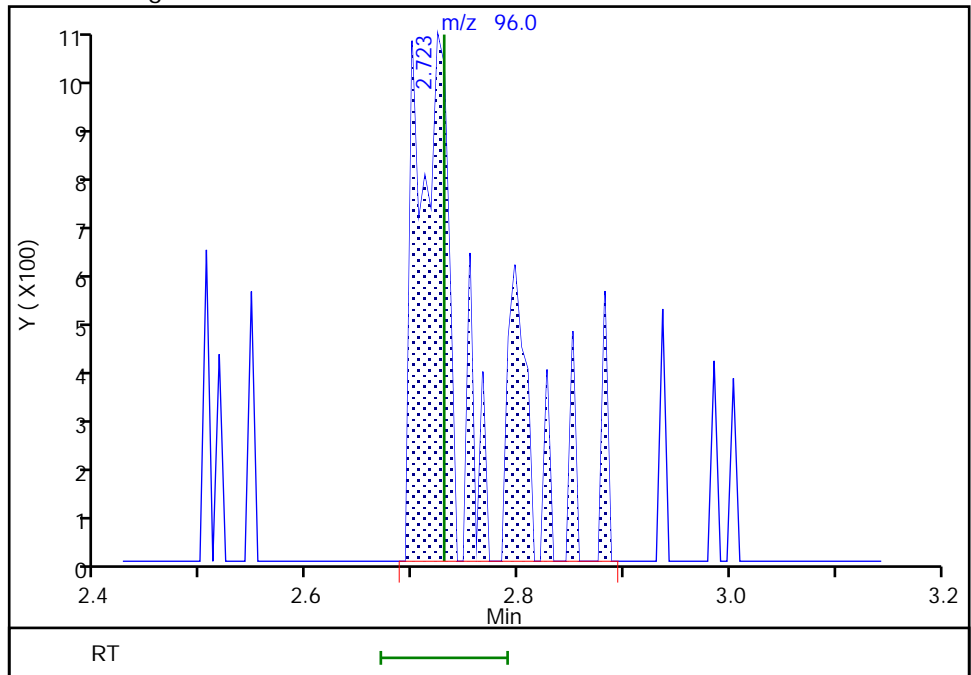
RT: 2.72
Area: 2399
Amount: 0.270204
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 3550
Amount: 0.403737
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:47:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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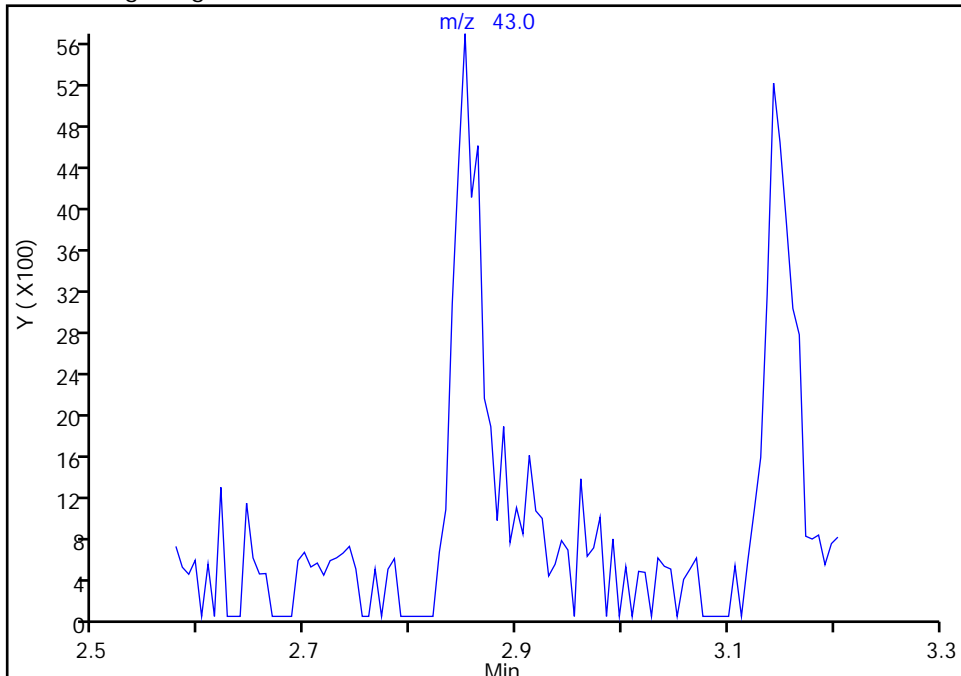
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

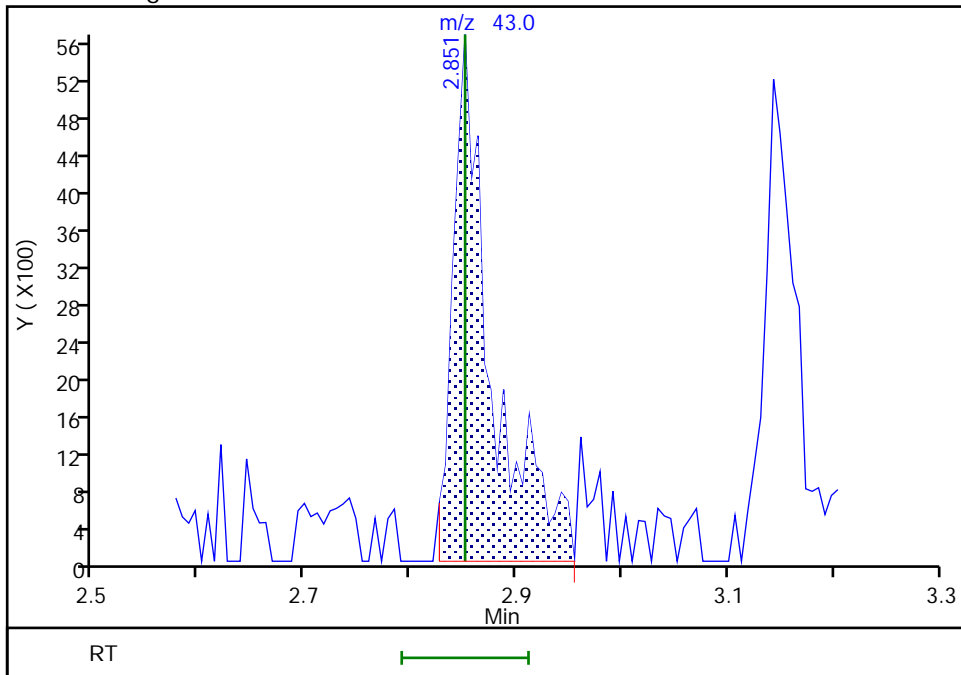
Not Detected
Expected RT: 2.85

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 13929
Amount: 3.637017
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:42:59
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

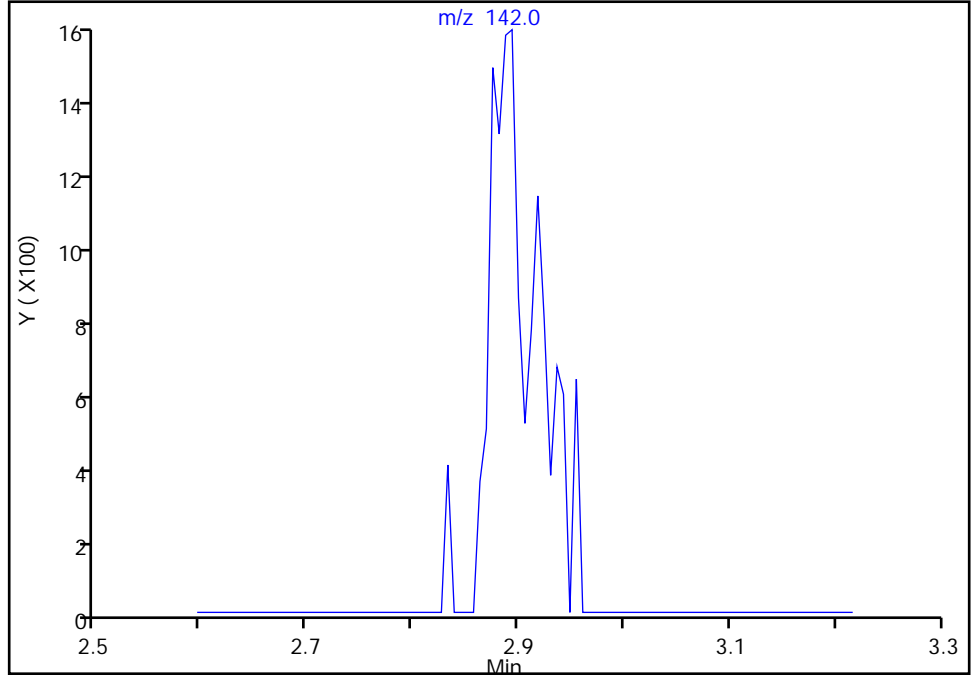
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

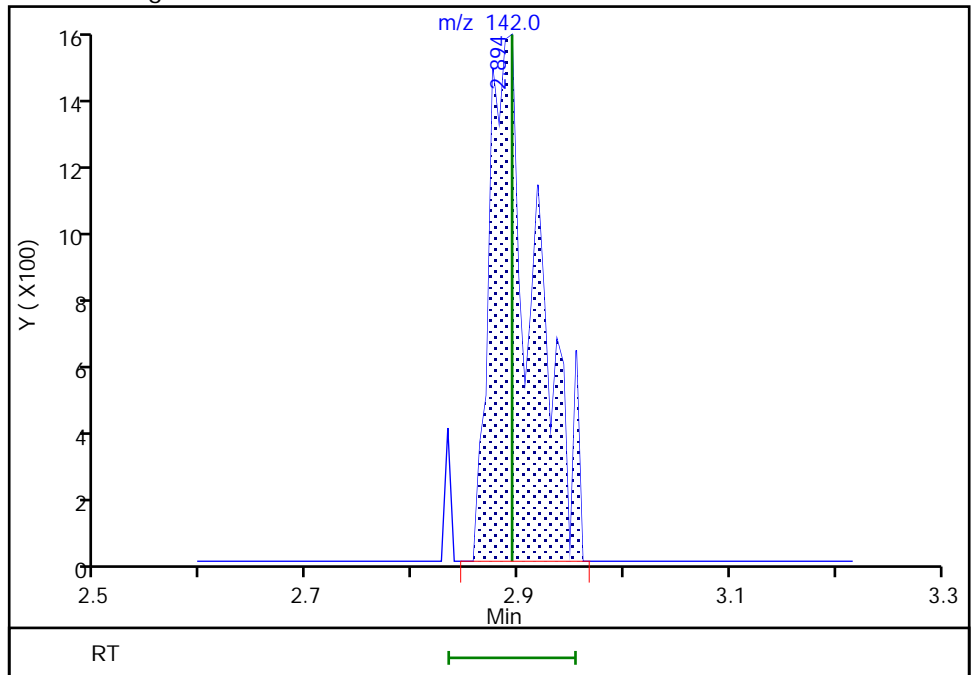
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 4781
Amount: 0.371790
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:57:46
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

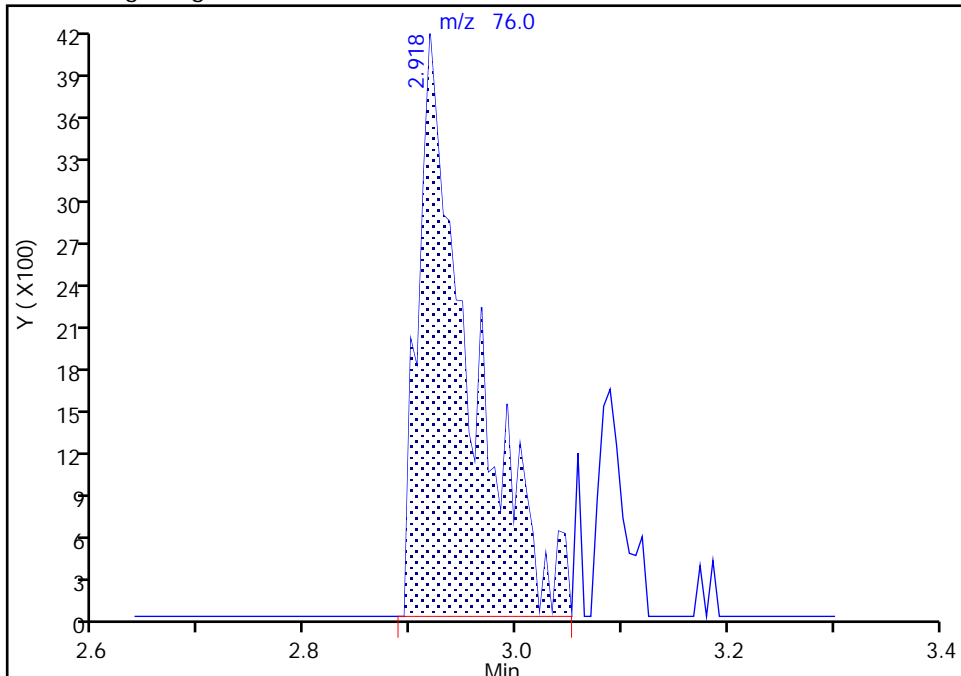
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

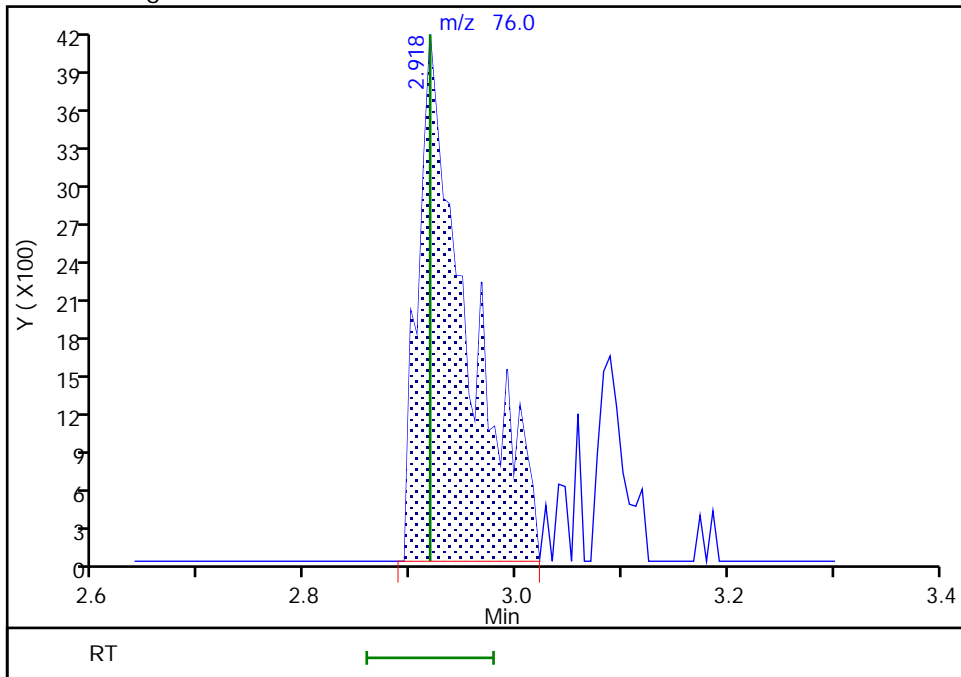
RT: 2.92
Area: 14115
Amount: 0.500876
Amount Units: ug/L

Processing Integration Results



RT: 2.92
Area: 13516
Amount: 0.482183
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:58:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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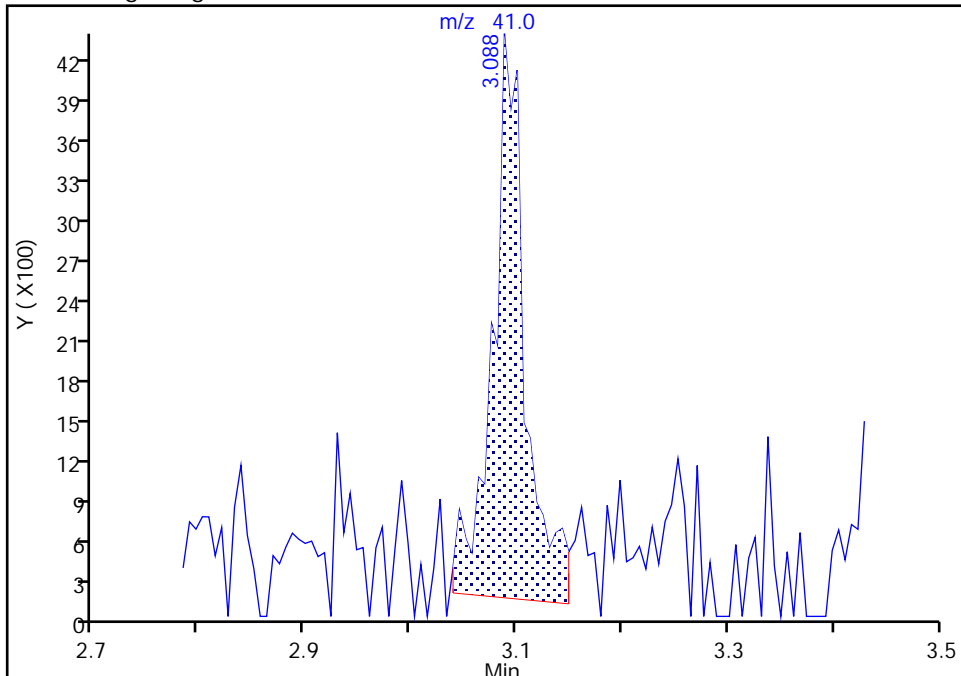
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

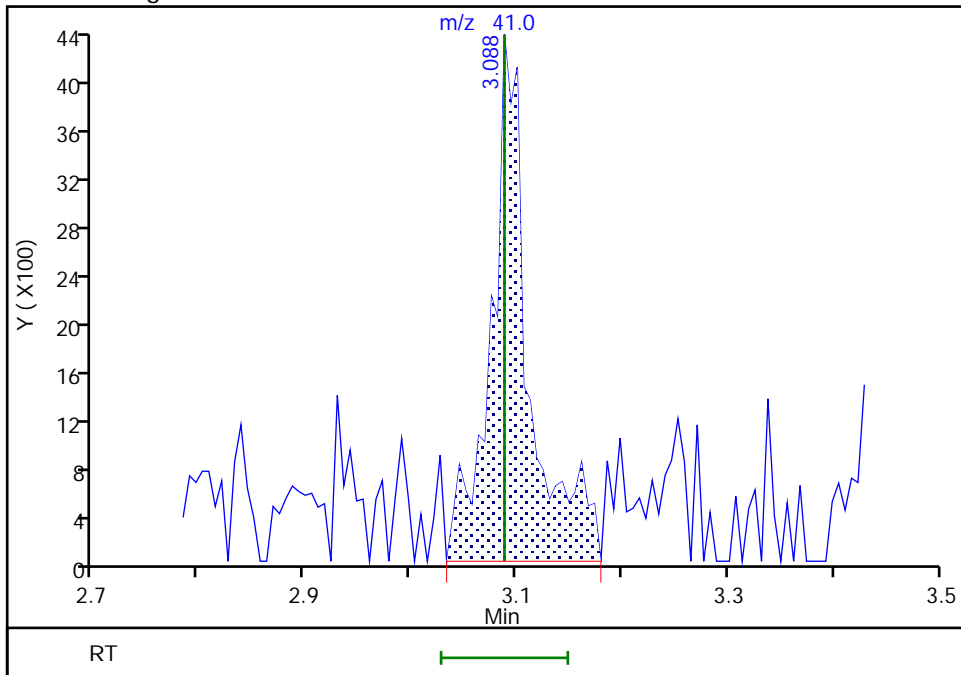
RT: 3.09
Area: 8961
Amount: 0.540219
Amount Units: ug/L

Processing Integration Results



RT: 3.09
Area: 10726
Amount: 0.629202
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:55:59
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

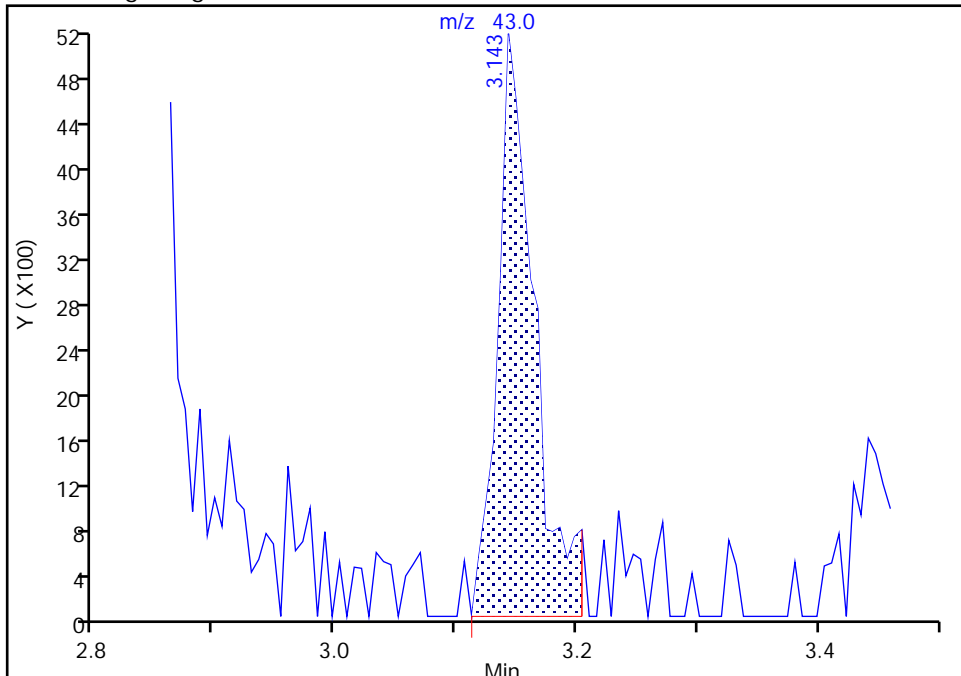
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

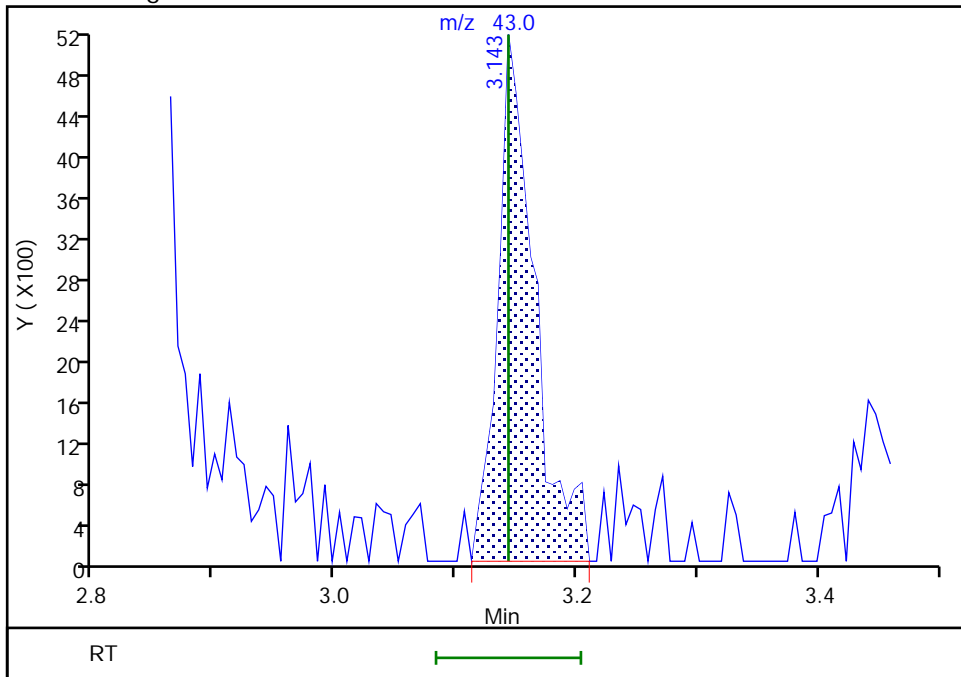
RT: 3.14
Area: 10797
Amount: 1.072511
Amount Units: ug/L

Processing Integration Results



RT: 3.14
Area: 10797
Amount: 1.073869
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:58:27
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

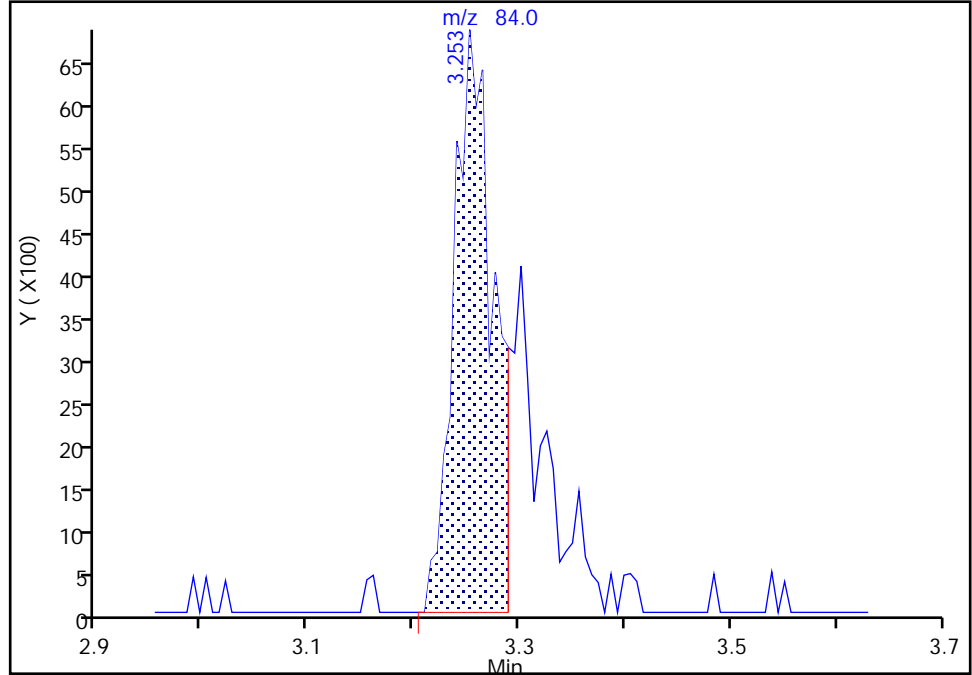
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

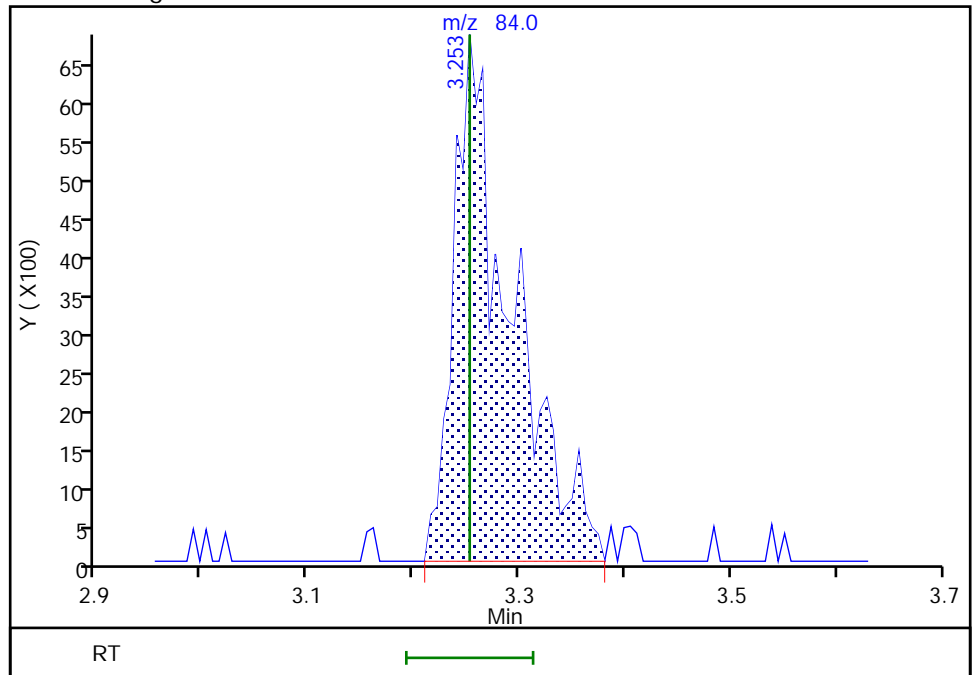
RT: 3.25
Area: 17805
Amount: 1.289031
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 25876
Amount: 0.589276
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:43:43
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

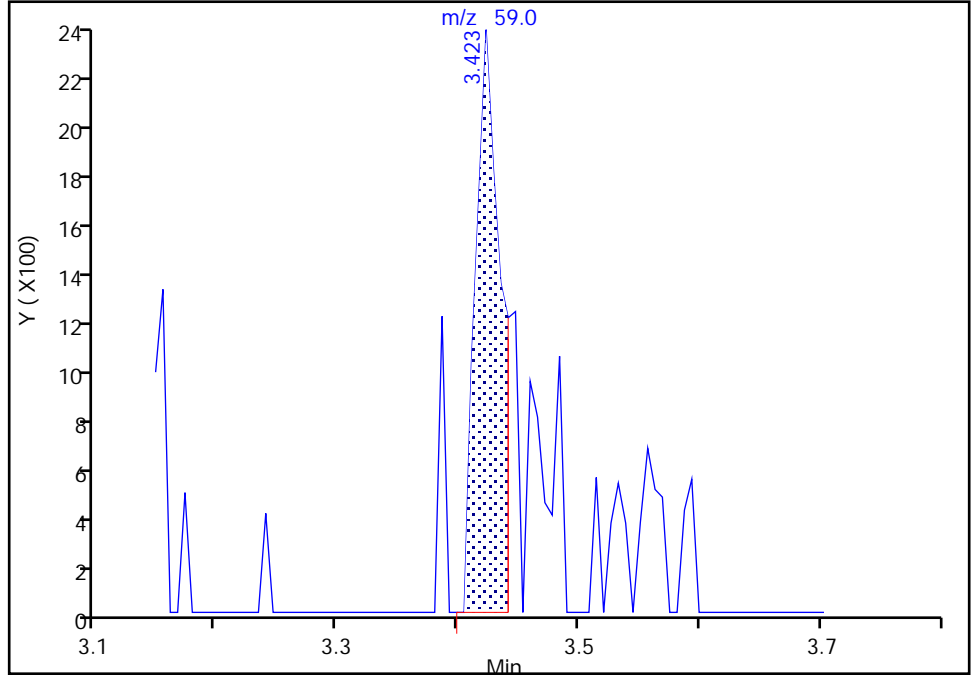
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

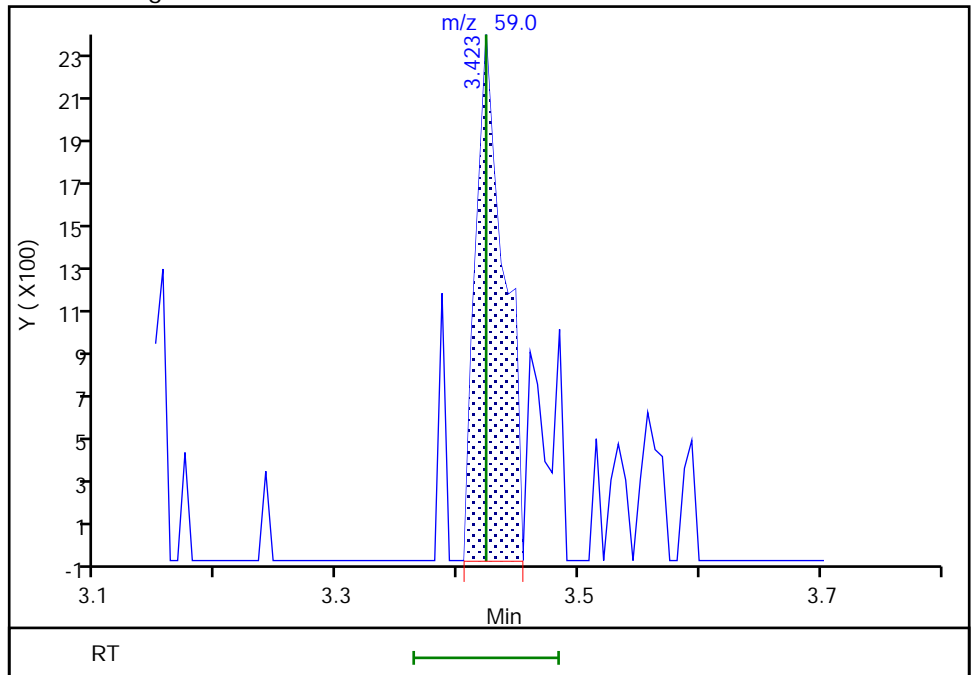
RT: 3.42
Area: 3386
Amount: 3.028648
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 3836
Amount: 2.956164
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:47:12
Audit Action: Manually Integrated

TestAmerica Buffalo

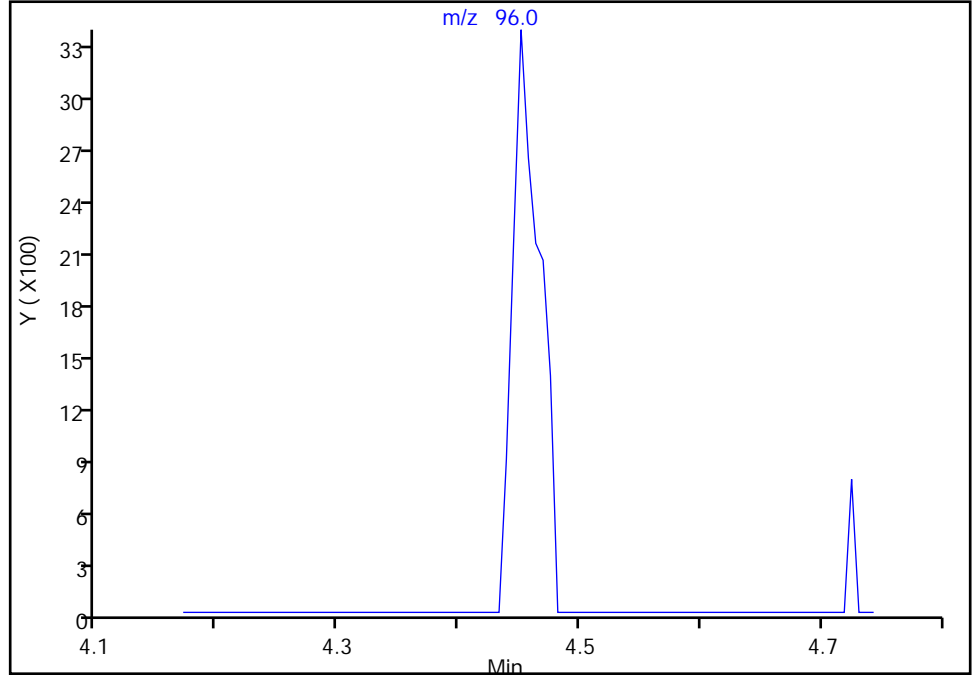
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

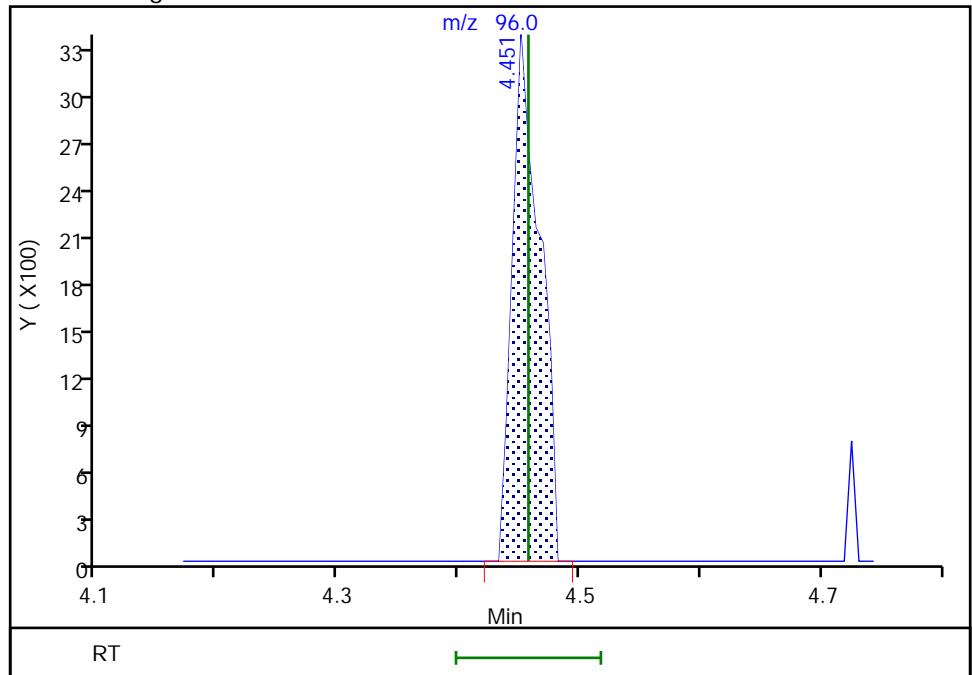
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.45
Area: 5275
Amount: 0.456176
Amount Units: ug/L



TestAmerica Buffalo

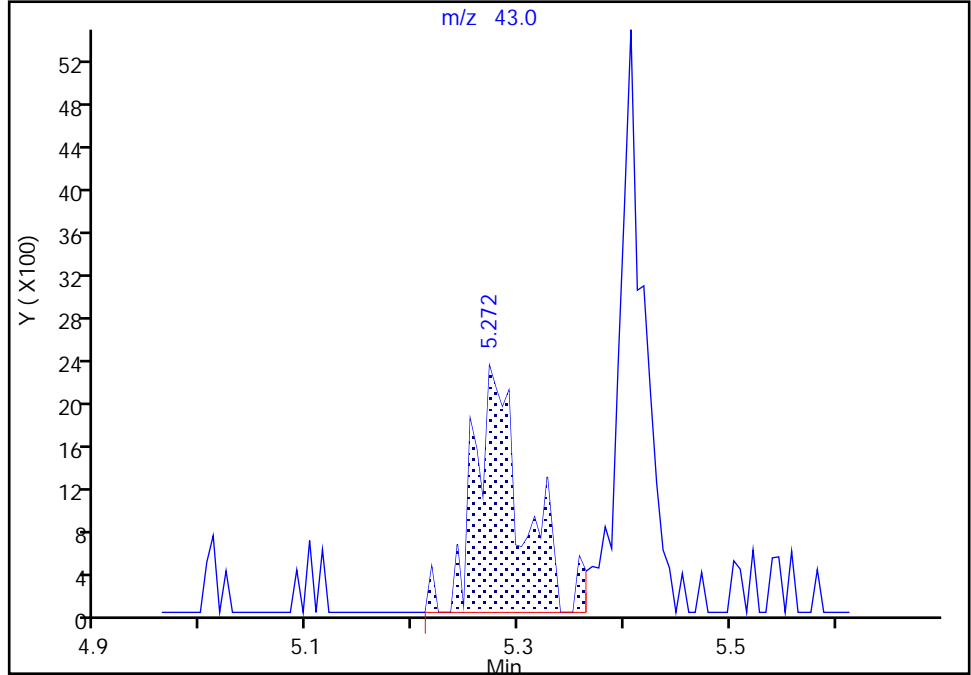
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

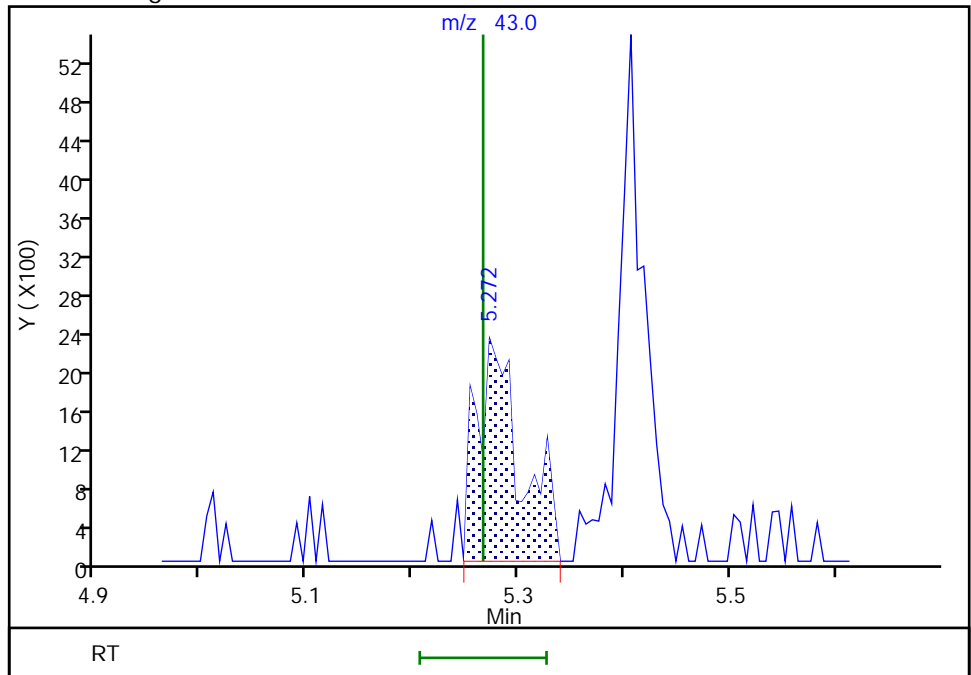
RT: 5.27
Area: 7407
Amount: 13.382108
Amount Units: ug/L

Processing Integration Results



RT: 5.27
Area: 6683
Amount: 12.234095
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:00:59
Audit Action: Manually Integrated

TestAmerica Buffalo

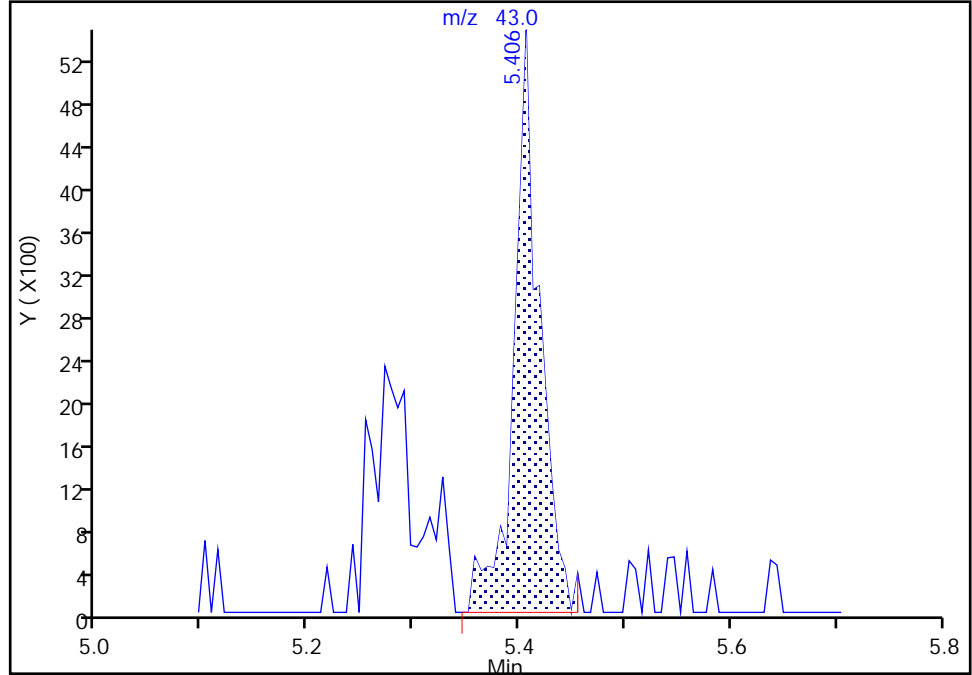
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

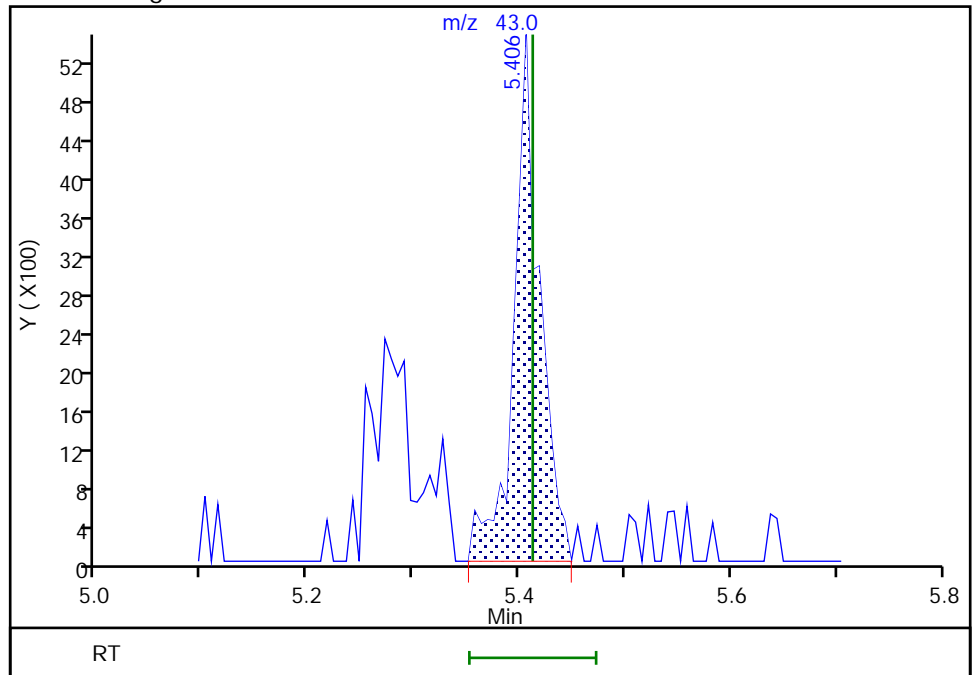
RT: 5.41
Area: 9374
Amount: 0.547303
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 9240
Amount: 0.535437
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:01:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

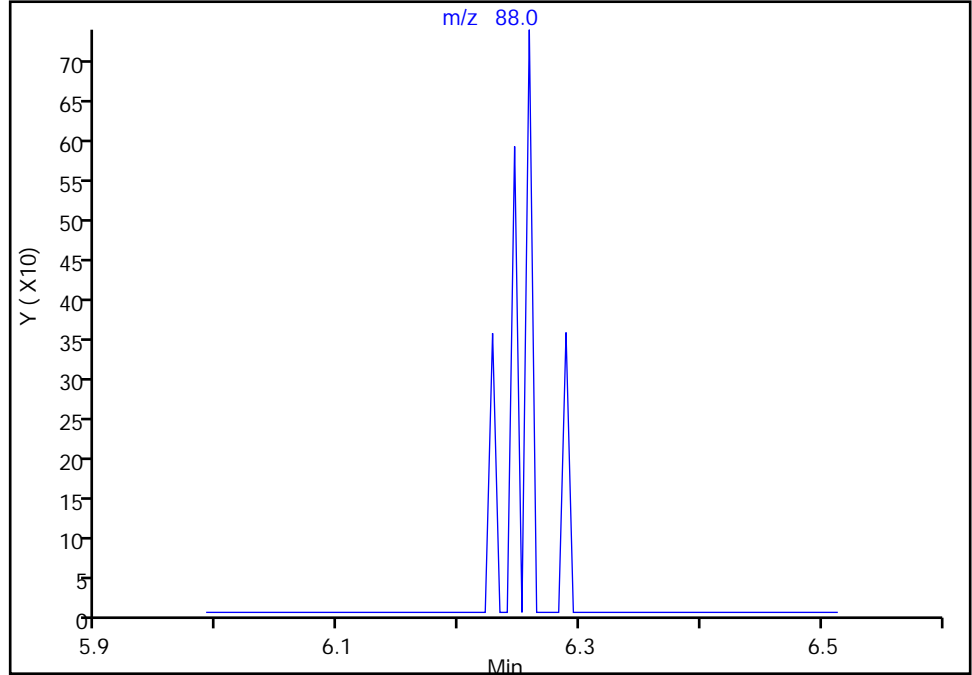
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

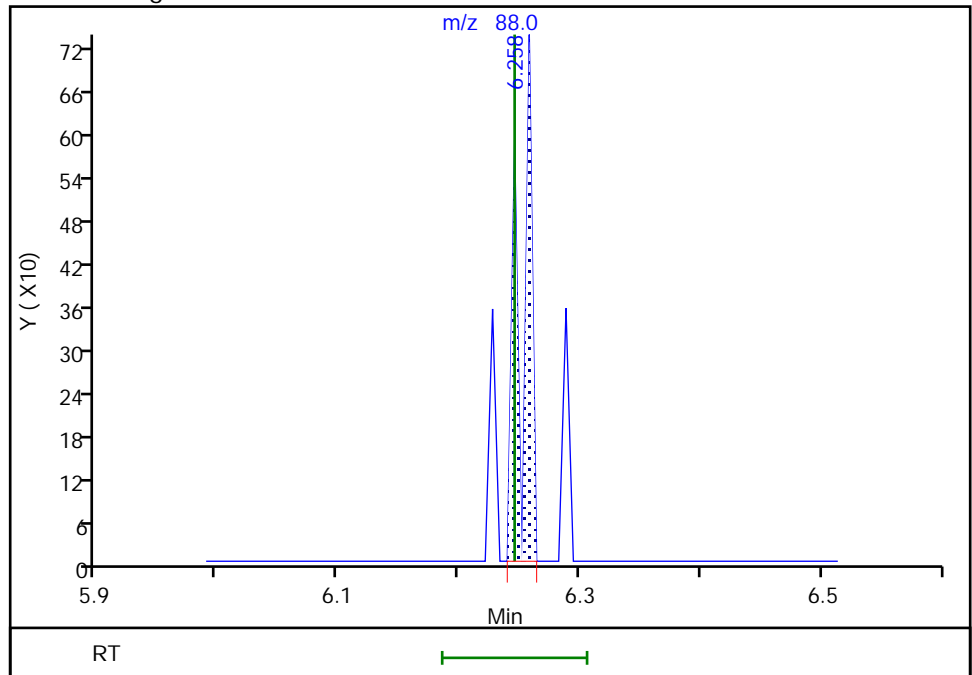
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 485
Amount: 18.689662
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:10
Audit Action: Manually Integrated

Audit Reason: Assign Peak

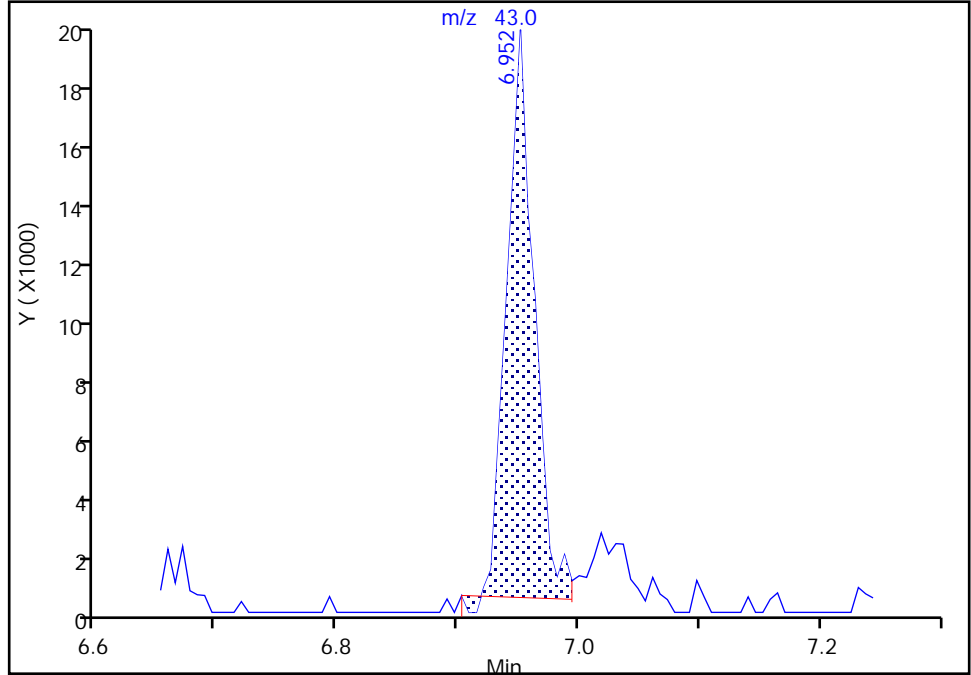
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

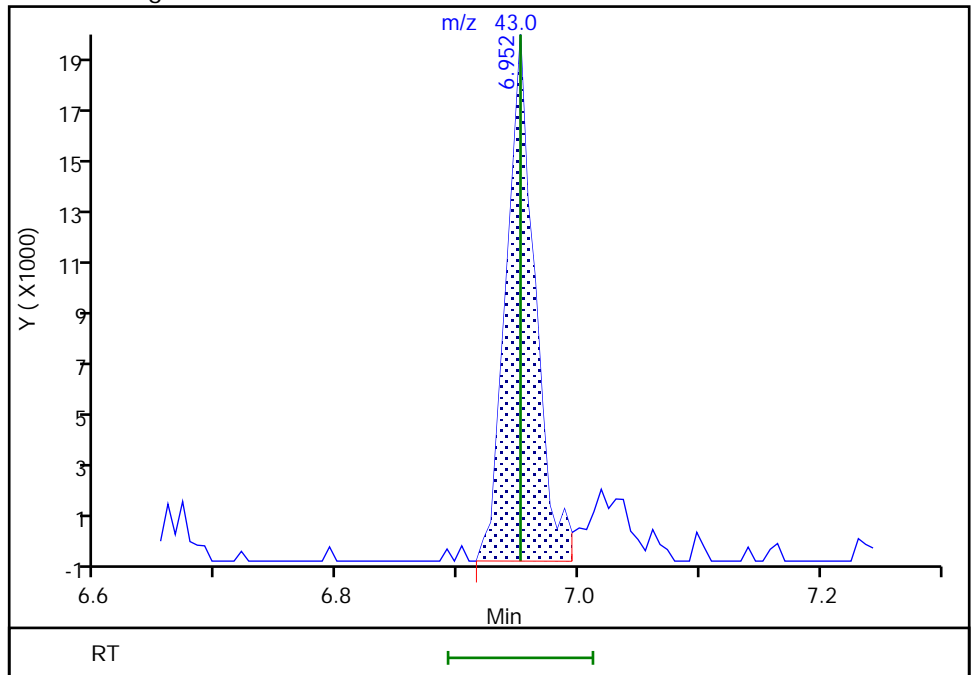
RT: 6.95
Area: 29564
Amount: 2.370232
Amount Units: ug/L

Processing Integration Results



RT: 6.95
Area: 32292
Amount: 2.560938
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:03:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

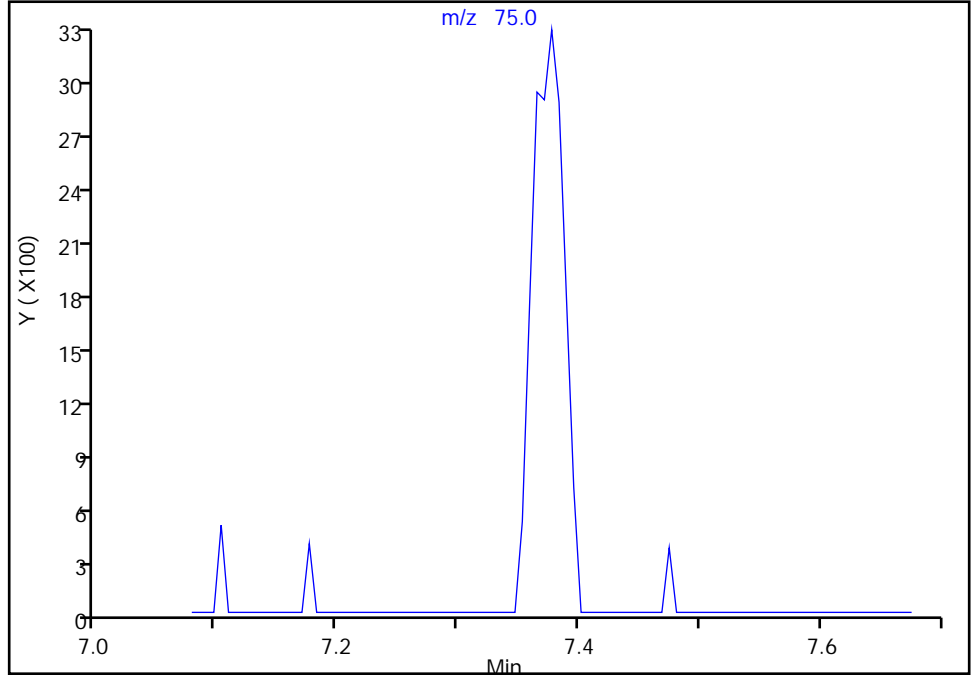
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

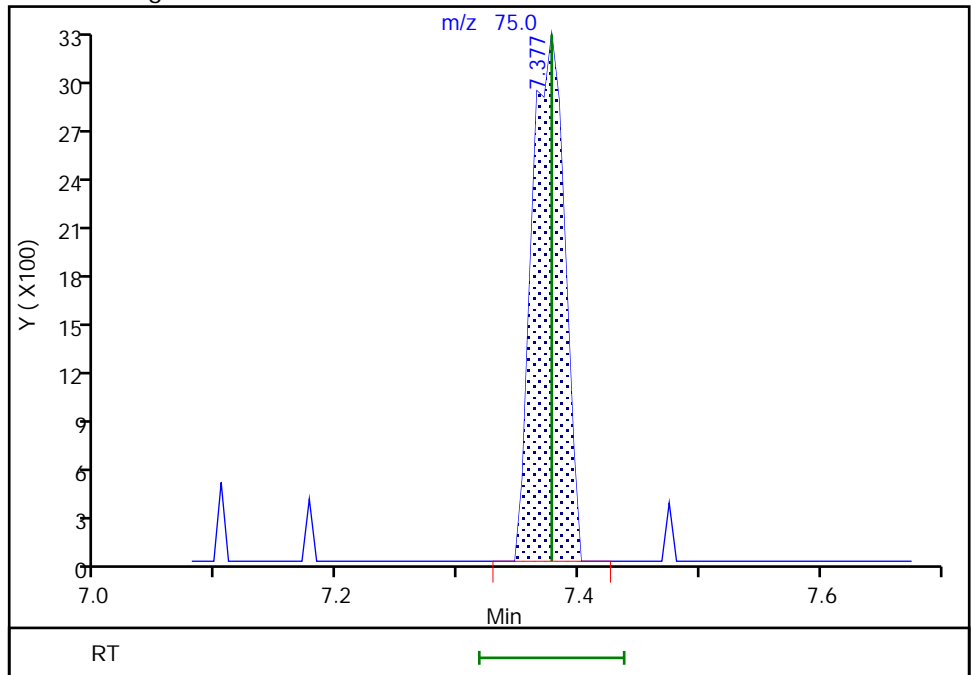
Not Detected
Expected RT: 7.38

Processing Integration Results



Manual Integration Results

RT: 7.38
Area: 6057
Amount: 0.418787
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:20
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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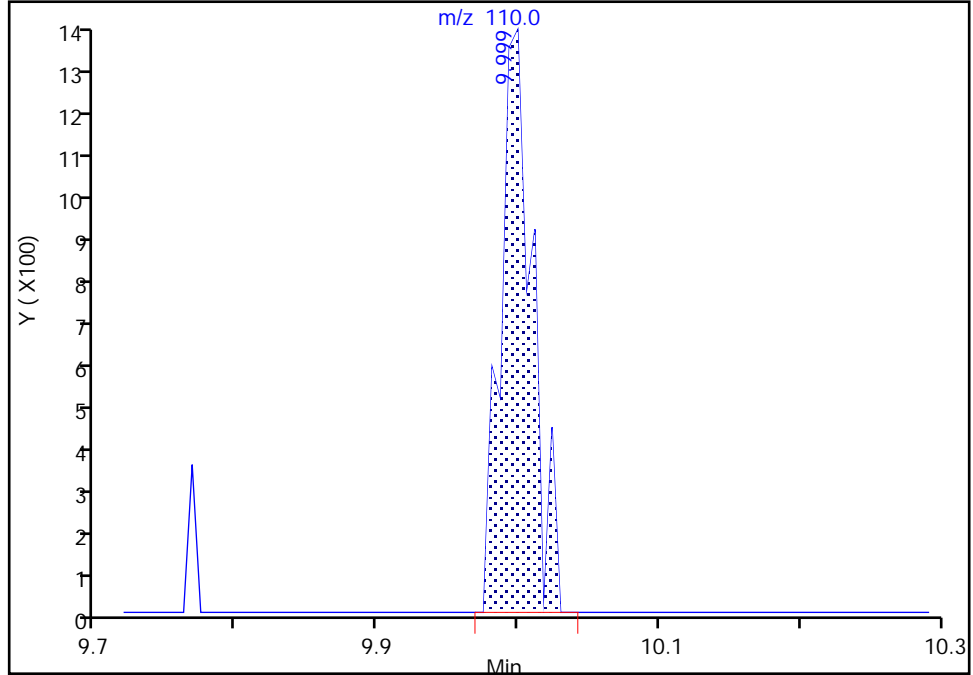
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4
Signal: 1

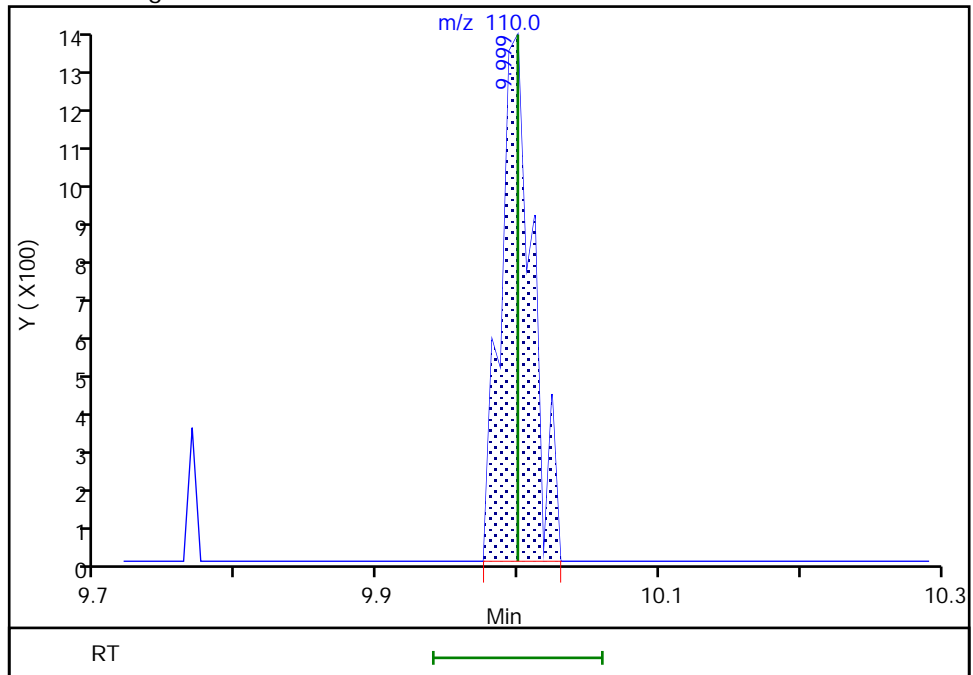
RT: 10.00
Area: 2169
Amount: 0.520804
Amount Units: ug/L

Processing Integration Results



RT: 10.00
Area: 2169
Amount: 0.525119
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:04:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

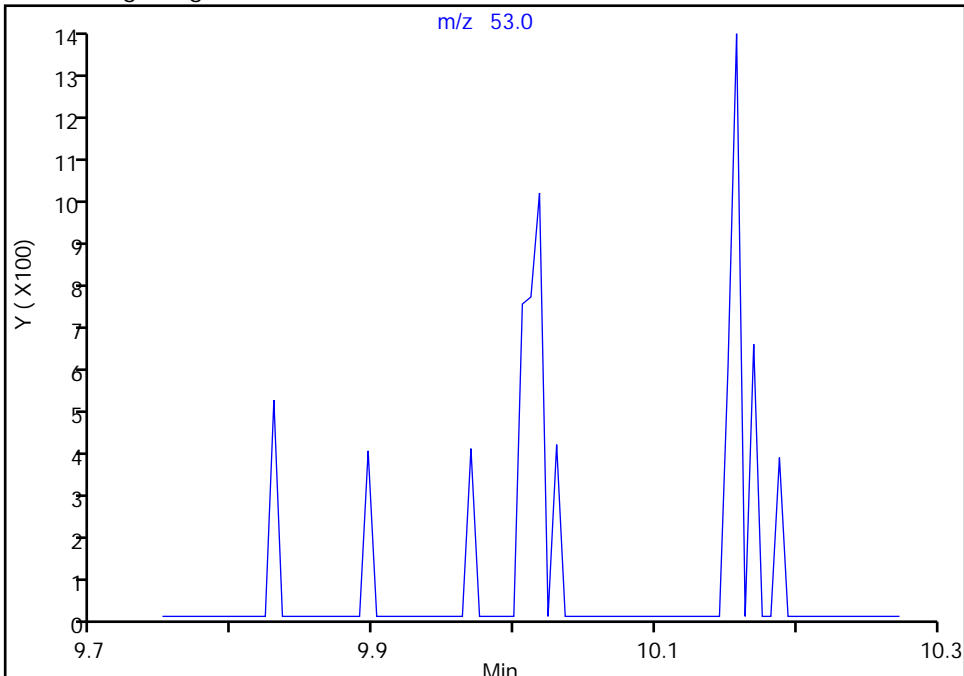
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

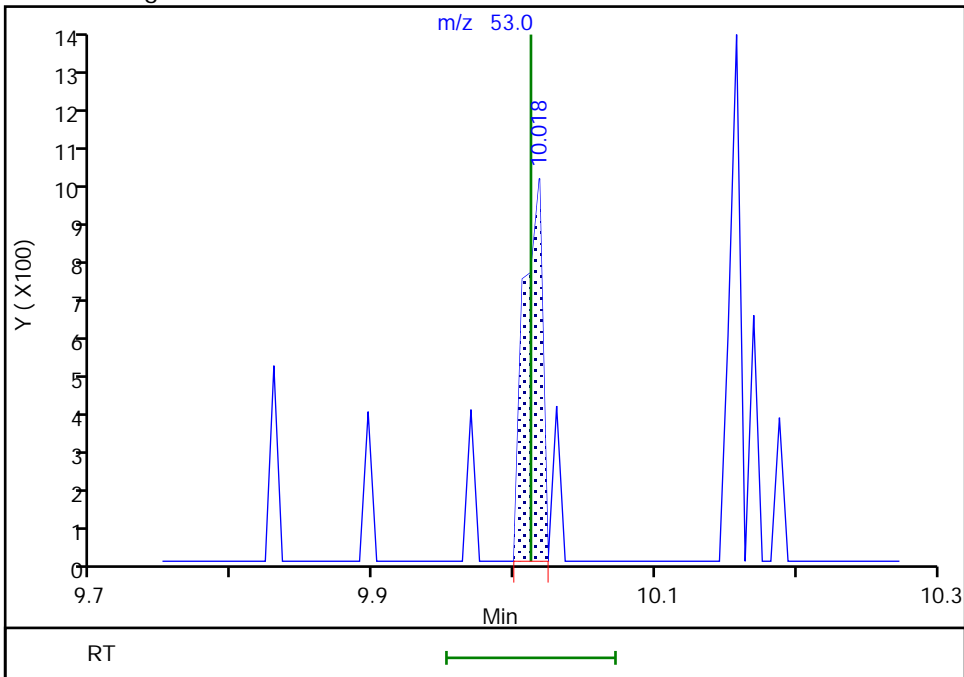
Not Detected
Expected RT: 10.01

Processing Integration Results



Manual Integration Results

RT: 10.02
Area: 863
Amount: 0.772476
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:04:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

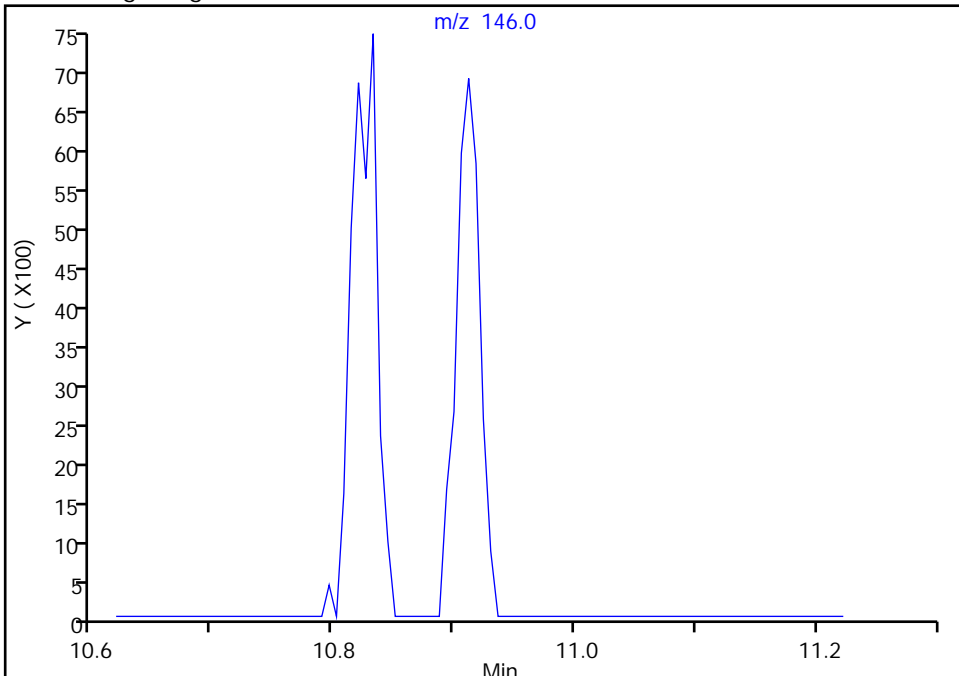
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

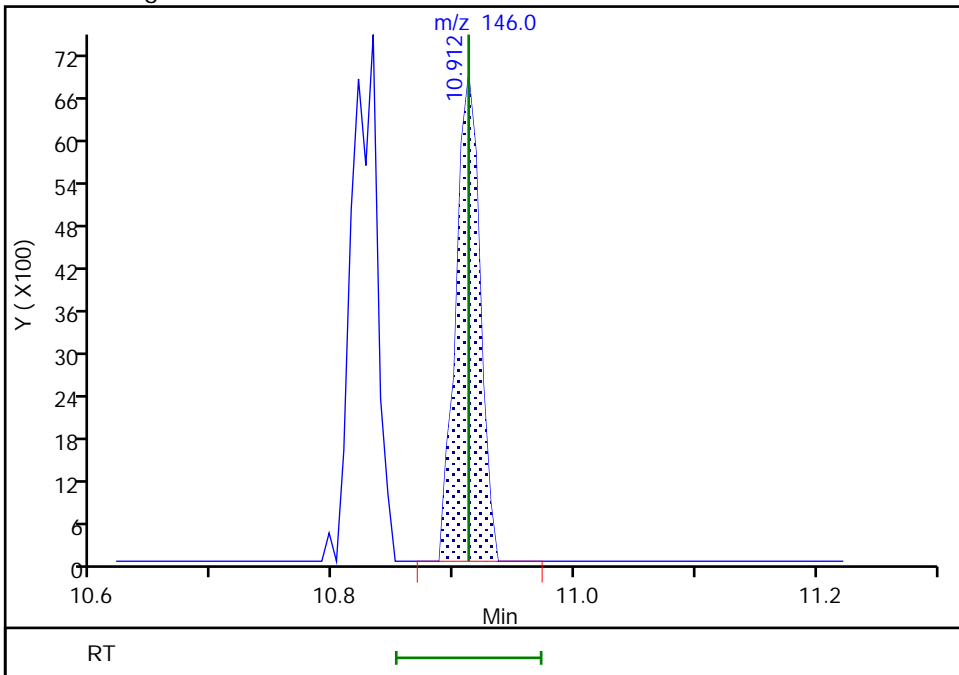
Not Detected
Expected RT: 10.91

Processing Integration Results



Manual Integration Results

RT: 10.91
Area: 9616
Amount: 0.415448
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:54
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Buffalo

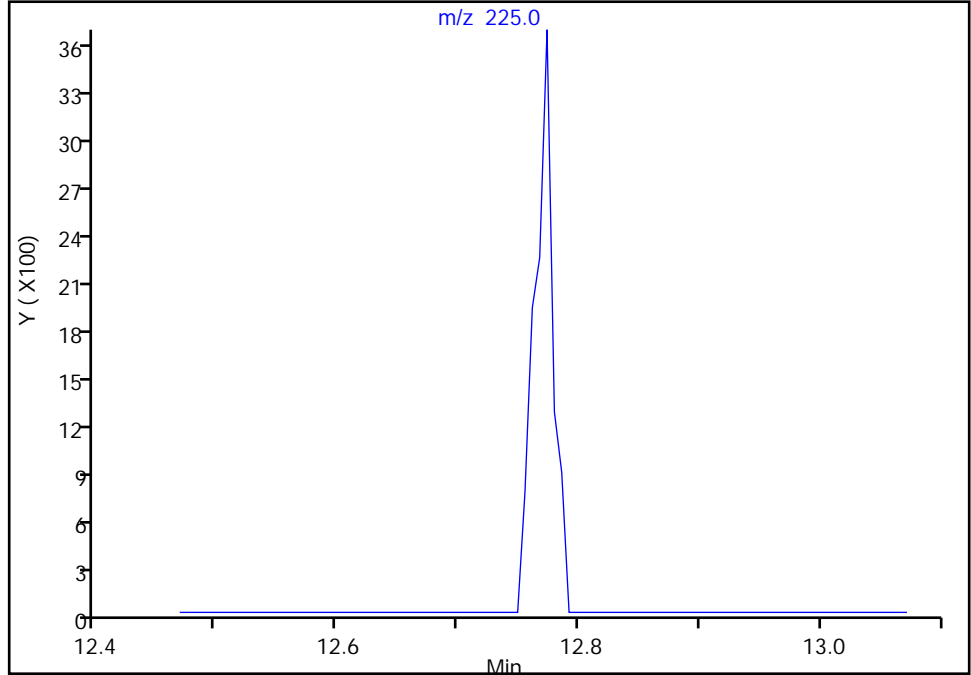
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

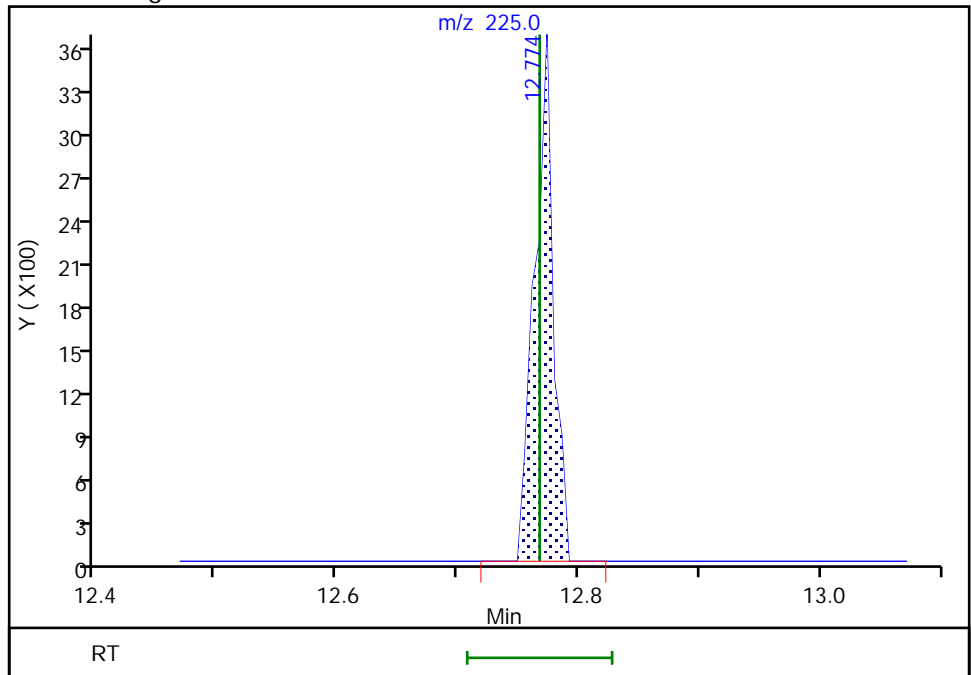
Not Detected
Expected RT: 12.77

Processing Integration Results



Manual Integration Results

RT: 12.77
Area: 3906
Amount: 0.514056
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:46:00
Audit Action: Manually Integrated

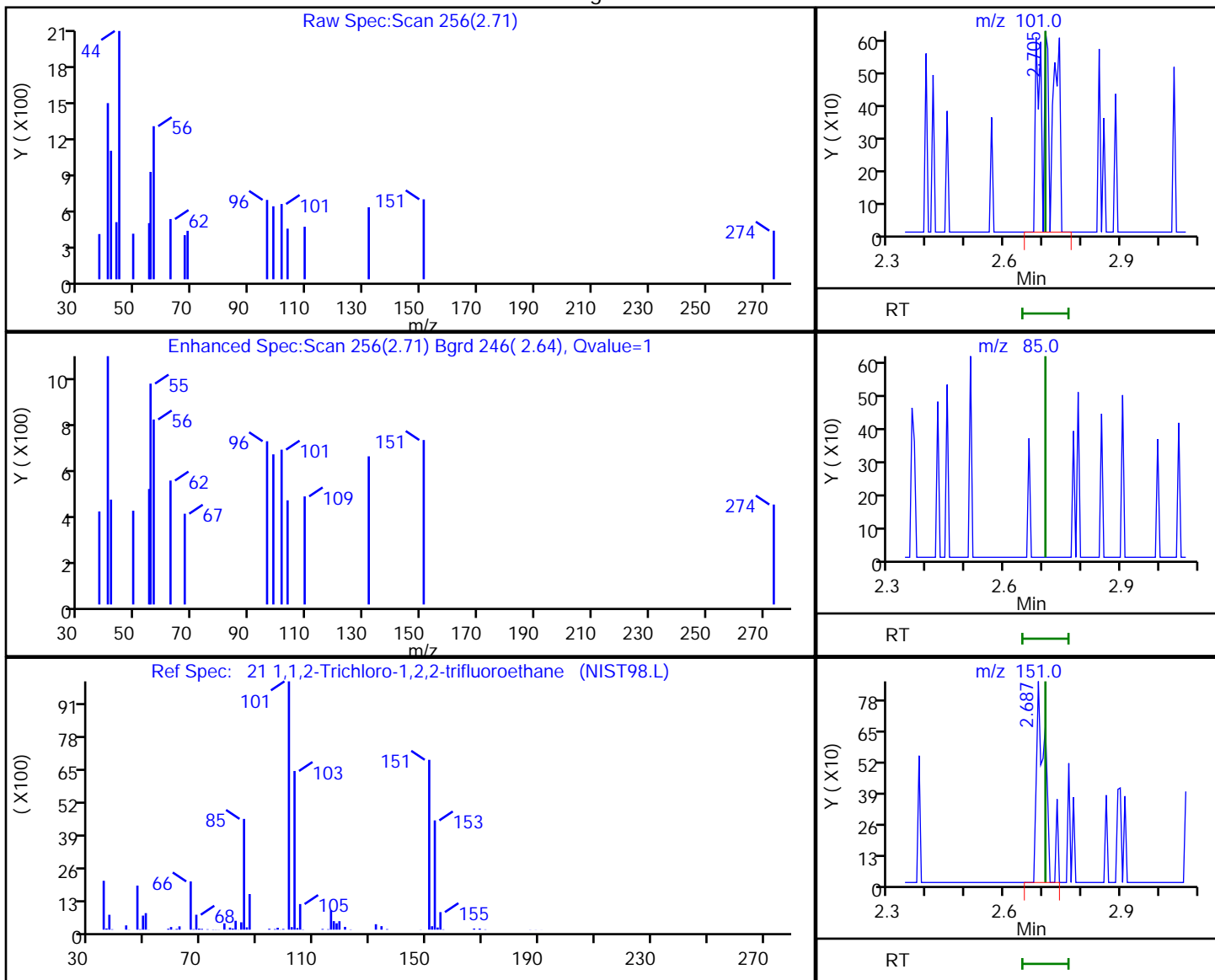
Audit Reason: Assign Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.71	101.00	1737	0.614237
2.71	85.00	0	
2.69	151.00	1339	

Reviewer: moffata, 21-Jun-2018 11:57:25

Audit Action: Marked Compound Undetected

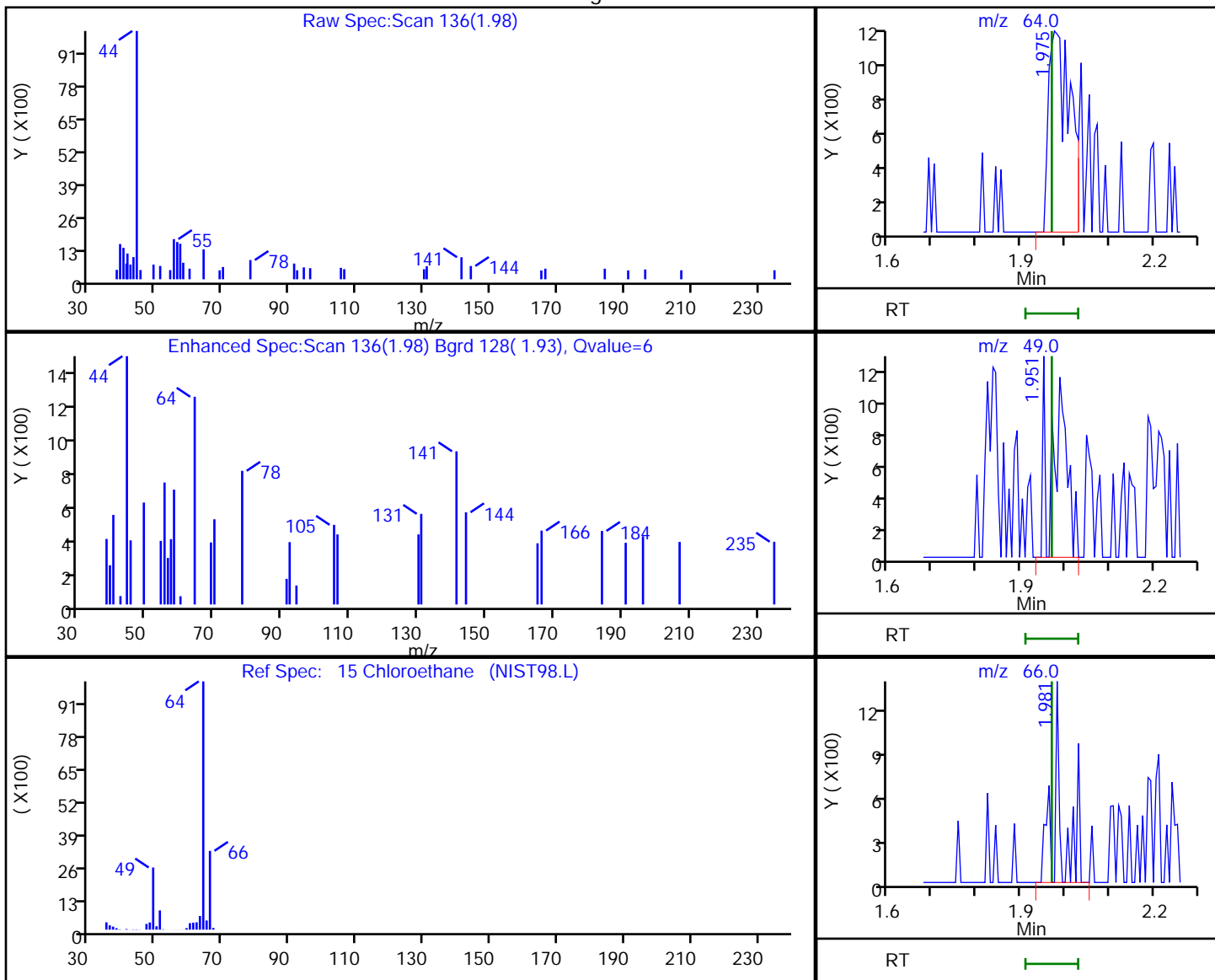
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.98	64.00	4050	0.494855
1.95	49.00	2720	
1.98	66.00	1758	

Reviewer: moffata, 21-Jun-2018 11:56:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-Jun-2018 14:14:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0072482-006
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:40 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:27:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	196233	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	387033	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	370596	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	58	231529	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	156518	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	938964	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	293518	25.0	25.4	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	36	7348	1.00	0.7775	M
12 Chloromethane	50	1.476	1.464	0.012	78	15313	1.00	1.02	M
13 Vinyl chloride	62	1.555	1.549	0.006	27	12290	1.00	0.9206	
151 Butadiene	54	1.574	1.574	0.000	65	14101	1.00	1.01	M
14 Bromomethane	94	1.896	1.872	0.024	21	7740	1.00	1.08	
15 Chloroethane	64	1.987	1.969	0.018	44	7969	1.00	0.9863	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	35	18841	1.00	1.06	M
17 Trichlorofluoromethane	101	2.194	2.194	0.000	23	9809	1.00	0.7755	M
18 Ethyl ether	59	2.498	2.492	0.006	68	10116	1.00	0.8990	M
20 Acrolein	56	2.687	2.687	0.000	62	10896	5.00	5.06	
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.705	0.012	1	4012	1.00	0.8855	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	48	5891	1.00	0.6796	M
23 Acetone	43	2.857	2.851	0.006	94	21919	5.00	5.81	M
25 Iodomethane	142	2.894	2.894	0.000	76	9518	1.00	0.7508	
26 Carbon disulfide	76	2.918	2.918	0.000	61	21977	1.00	0.7953	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	78	13283	1.00	0.7904	M
27 Methyl acetate	43	3.155	3.143	0.012	96	18391	2.00	1.86	
30 Methylene Chloride	84	3.277	3.253	0.024	73	27400	1.00	0.7662	M
31 2-Methyl-2-propanol	59	3.435	3.423	0.012	67	10697	10.0	8.36	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	87	29403	1.00	0.9052	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	71	8953	1.00	0.9025	
33 Acrylonitrile	53	3.539	3.539	0.000	98	54039	10.0	10.3	M
35 Hexane	57	3.660	3.660	0.000	77	16451	1.00	0.8994	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	59	18747	1.00	0.8971	
37 Vinyl acetate	43	3.952	3.952	0.000	95	48840	2.00	2.03	
44 2,2-Dichloropropane	77	4.421	4.415	0.006	58	10146	1.00	0.8761	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	38	9571	1.00	0.8396	M
43 2-Butanone (MEK)	43	4.506	4.494	0.012	90	28054	5.00	4.84	M
48 Chlorobromomethane	128	4.701	4.695	0.006	61	4881	1.00	0.8962	
49 Tetrahydrofuran	42	4.713	4.713	0.000	83	9288	2.00	2.33	
50 Chloroform	83	4.774	4.774	0.000	55	18254	1.00	1.00	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	59	11720	1.00	0.8626	
52 Cyclohexane	56	4.889	4.883	0.006	66	14257	1.00	0.7800	
55 Carbon tetrachloride	117	5.011	5.011	0.000	69	9145	1.00	0.8032	M
54 1,1-Dichloropropene	75	5.035	5.029	0.006	71	11150	1.00	0.8051	
57 Benzene	78	5.236	5.236	0.000	41	36984	1.00	0.8884	
53 Isobutyl alcohol	43	5.266	5.266	0.000	49	12199	25.0	22.7	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	71	16247	1.00	0.9660	M
59 n-Heptane	43	5.406	5.412	-0.006	79	15455	1.00	0.9085	
62 Trichloroethene	95	5.850	5.850	0.000	66	9061	1.00	0.8437	
64 Methylcyclohexane	83	5.954	5.960	-0.006	65	12551	1.00	0.7674	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	64	12180	1.00	0.9699	
67 Dibromomethane	93	6.240	6.234	0.006	78	5931	1.00	0.9046	
66 1,4-Dioxane	88	6.258	6.246	0.012	1	597	20.0	20.1	M
68 Dichlorobromomethane	83	6.398	6.386	0.012	28	10219	1.00	0.8092	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	66	8583	1.00	1.02	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	59	13358	1.00	0.8413	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	89	59826	5.00	4.84	
74 Toluene	92	7.091	7.085	0.006	73	24418	1.00	0.9491	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	67	12197	1.00	0.8606	
75 Ethyl methacrylate	69	7.414	7.414	0.000	72	12849	1.00	0.9248	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	54	7331	1.00	0.9458	
81 Tetrachloroethene	166	7.621	7.615	0.006	82	9718	1.00	0.8945	
82 1,3-Dichloropropane	76	7.736	7.730	0.006	59	15786	1.00	0.9657	
80 2-Hexanone	43	7.791	7.791	0.000	92	44500	5.00	4.89	
83 Chlorodibromomethane	129	7.961	7.961	0.000	36	7156	1.00	0.8118	M
84 Ethylene Dibromide	107	8.071	8.071	0.000	53	10524	1.00	1.08	
87 Chlorobenzene	112	8.539	8.539	0.000	83	24166	1.00	0.8571	
88 Ethylbenzene	91	8.631	8.631	0.000	93	41123	1.00	0.8869	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	37	8227	1.00	0.9023	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	17890	1.00	0.9484	
91 o-Xylene	106	9.178	9.178	0.000	80	15140	1.00	0.8457	
92 Styrene	104	9.209	9.209	0.000	51	25278	1.00	0.8227	
95 Bromoform	173	9.470	9.464	0.006	55	4863	1.00	0.8636	
94 Isopropylbenzene	105	9.561	9.561	0.000	77	39437	1.00	0.8441	
101 Bromobenzene	156	9.908	9.908	0.000	70	10335	1.00	0.8743	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	62	11498	1.00	0.9057	
99 N-Propylbenzene	91	9.981	9.987	-0.006	91	45097	1.00	0.8326	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	25	3120	1.00	0.7465	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	2682	1.00	1.16	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	89	9082	1.00	0.7790	M
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	71	35625	1.00	0.8789	
105 4-Chlorotoluene	126	10.200	10.200	0.000	48	9952	1.00	0.8330	
106 tert-Butylbenzene	134	10.474	10.474	0.000	74	7151	1.00	0.8276	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	9	33566	1.00	0.8108	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	76	40072	1.00	0.8245	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	82	31836	1.00	0.7610	
111 1,3-Dichlorobenzene	146	10.821	10.827	-0.006	64	20317	1.00	0.8846	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	58	23153	1.00	0.9886	
115 n-Butylbenzene	91	11.210	11.210	0.000	87	30240	1.00	0.8017	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	85	20878	1.00	0.9234	
117 1,2-Dibromo-3-Chloropropan	75	11.989	11.995	-0.006	1	1954	1.00	0.7932	M
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	64	13505	1.00	0.8399	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	45	5693	1.00	0.7405	
121 Naphthalene	128	12.883	12.877	0.006	79	38651	1.00	0.8794	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	62	12729	1.00	0.8584	
S 124 Xylenes, Total	1				0			1.79	
S 126 1,3-Dichloropropene, Total	1				0			1.70	
S 123 Total BTEX	1				0			4.52	
S 125 1,2-Dichloroethene, Total	1				0			1.74	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 1.00

Units: uL

GAS CORP mix_00287

Amount Added: 1.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D

Injection Date: 20-Jun-2018 14:14:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

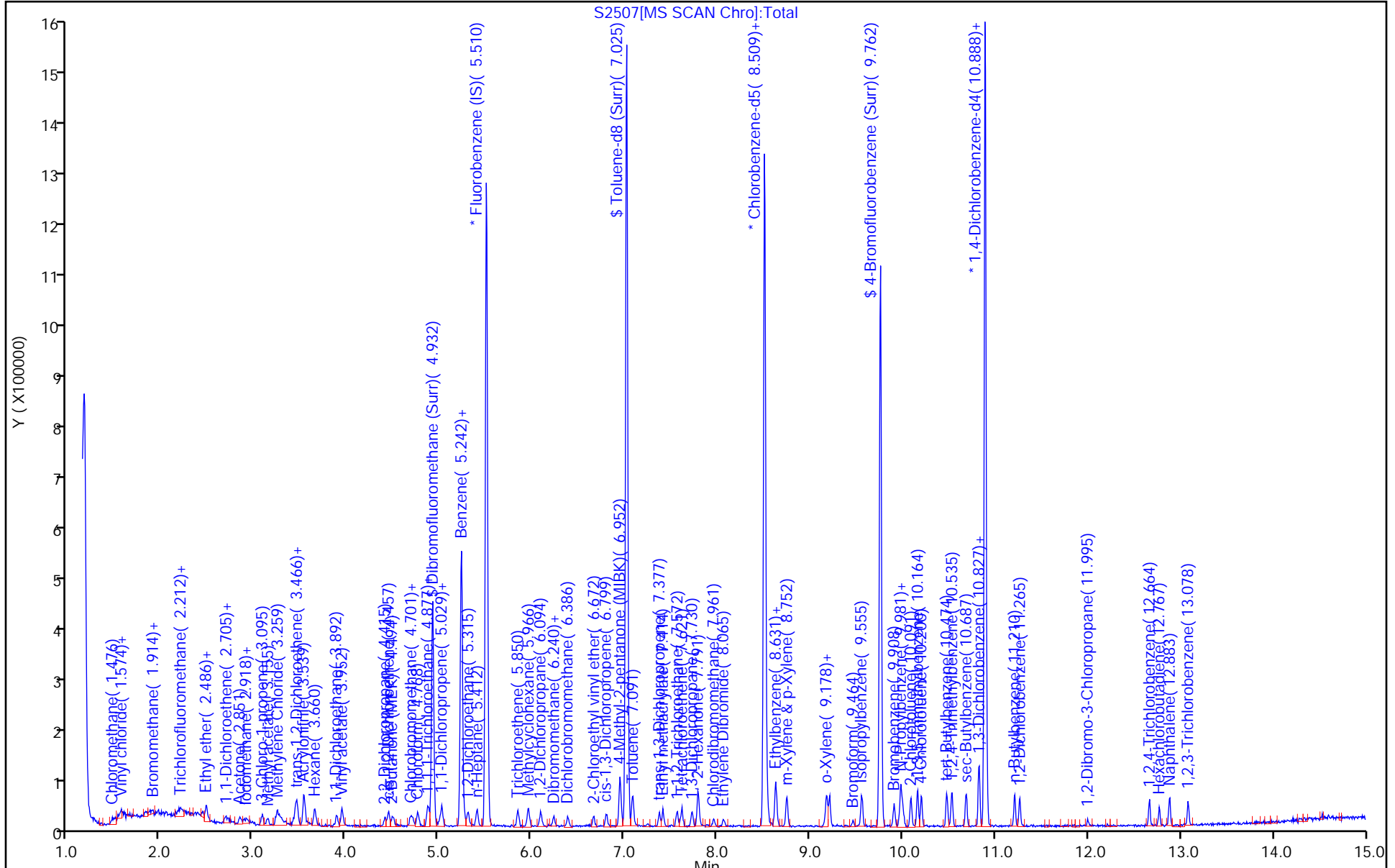
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

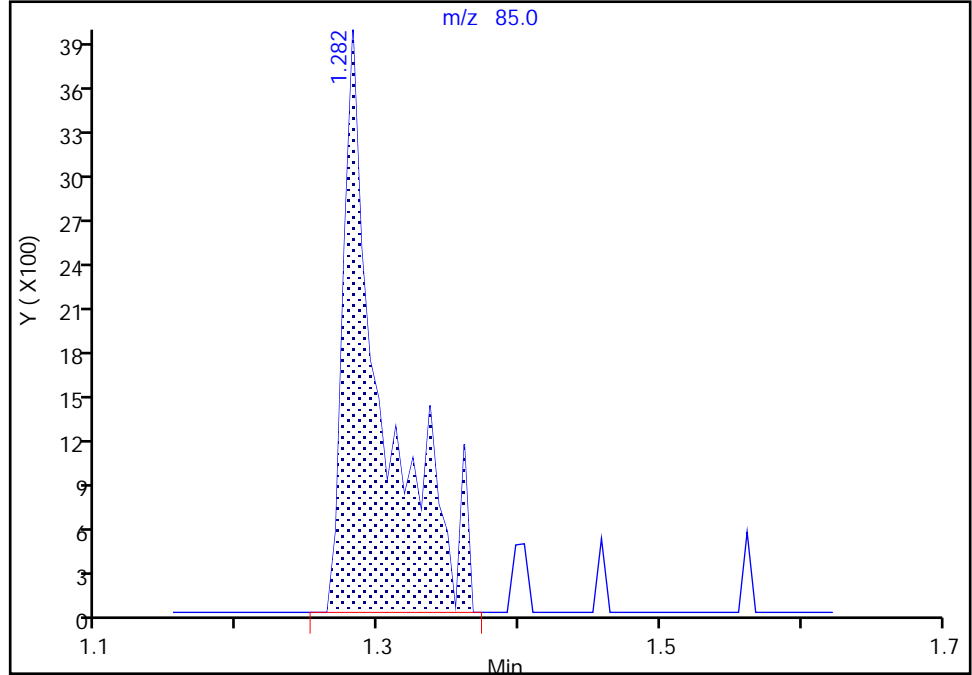
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

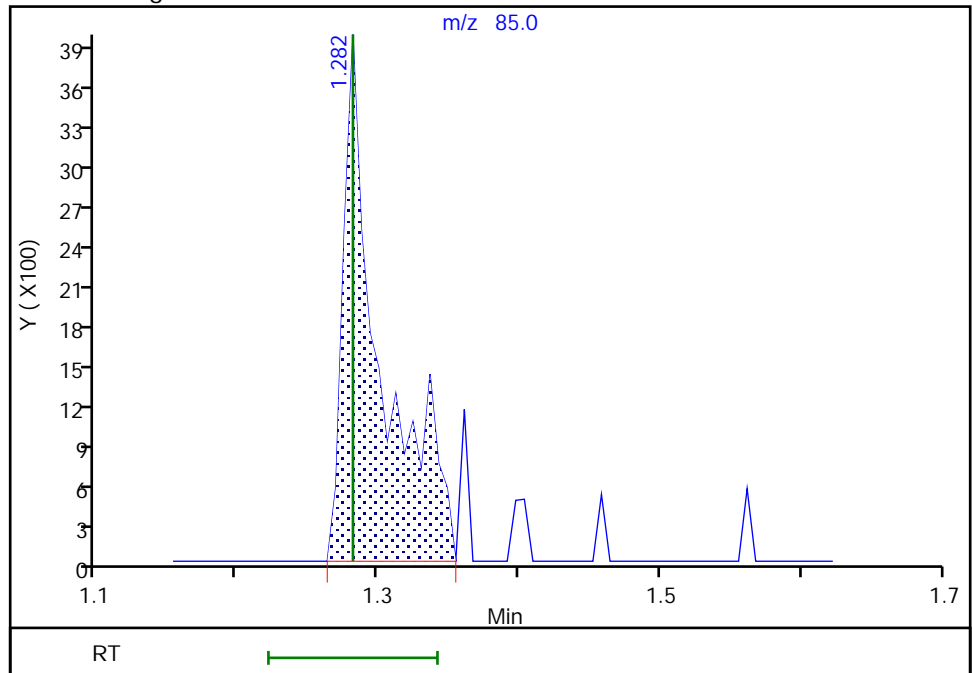
RT: 1.28
Area: 7767
Amount: 0.815608
Amount Units: ug/L

Processing Integration Results



RT: 1.28
Area: 7348
Amount: 0.777451
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:05:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

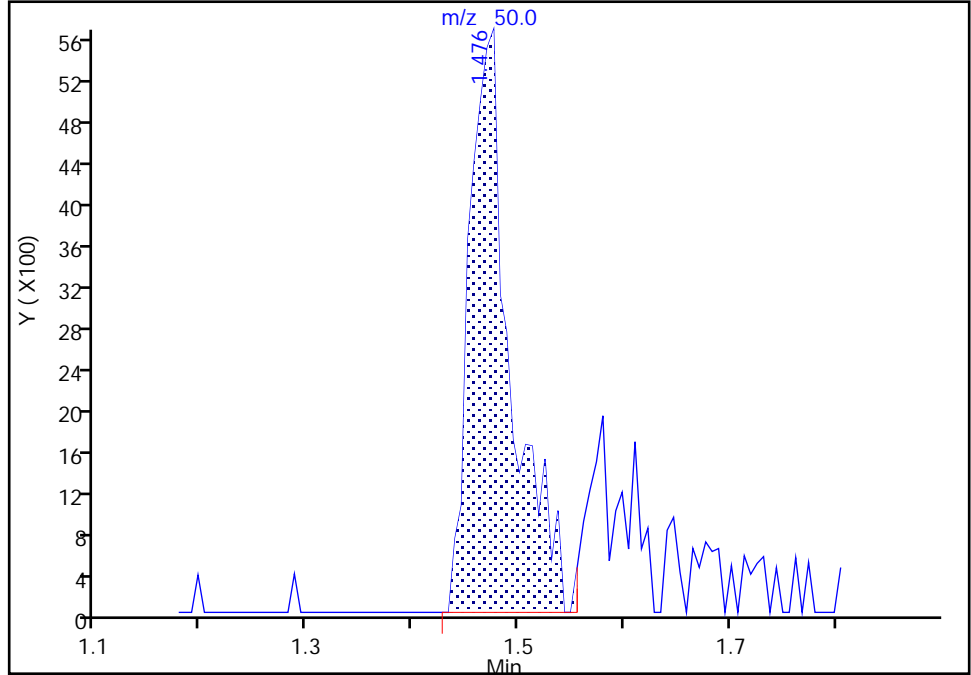
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

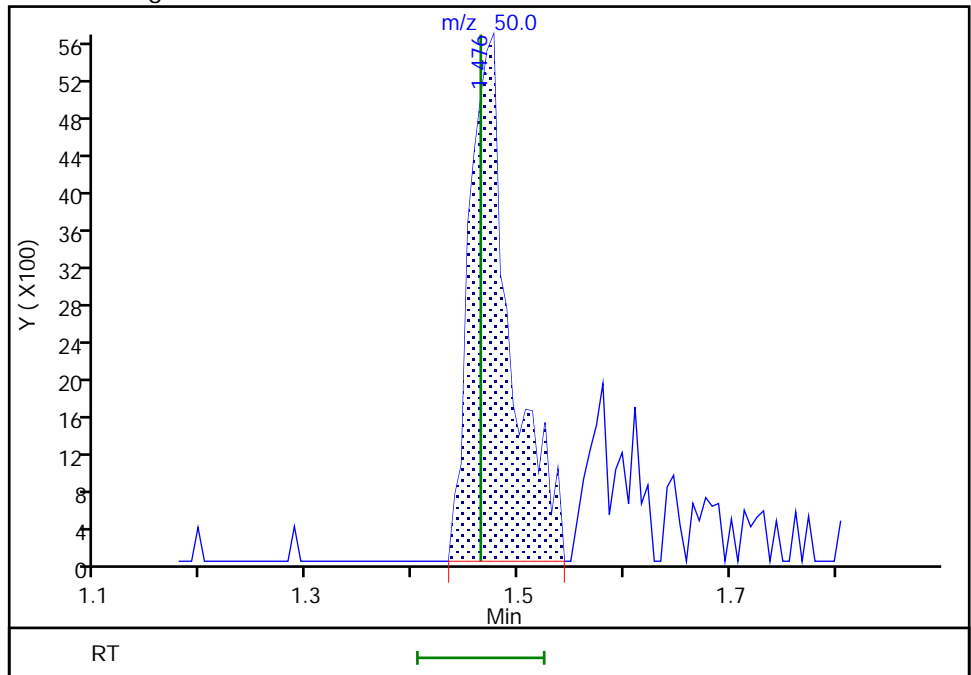
RT: 1.48
Area: 15473
Amount: 1.029331
Amount Units: ug/L

Processing Integration Results



RT: 1.48
Area: 15313
Amount: 1.020044
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:05:22
Audit Action: Manually Integrated

TestAmerica Buffalo

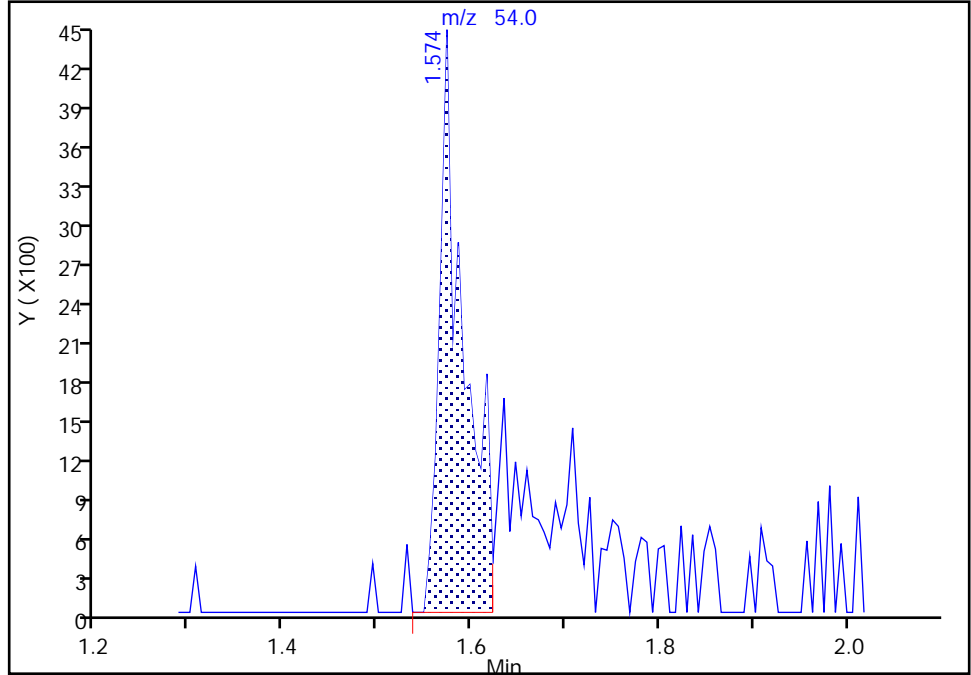
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

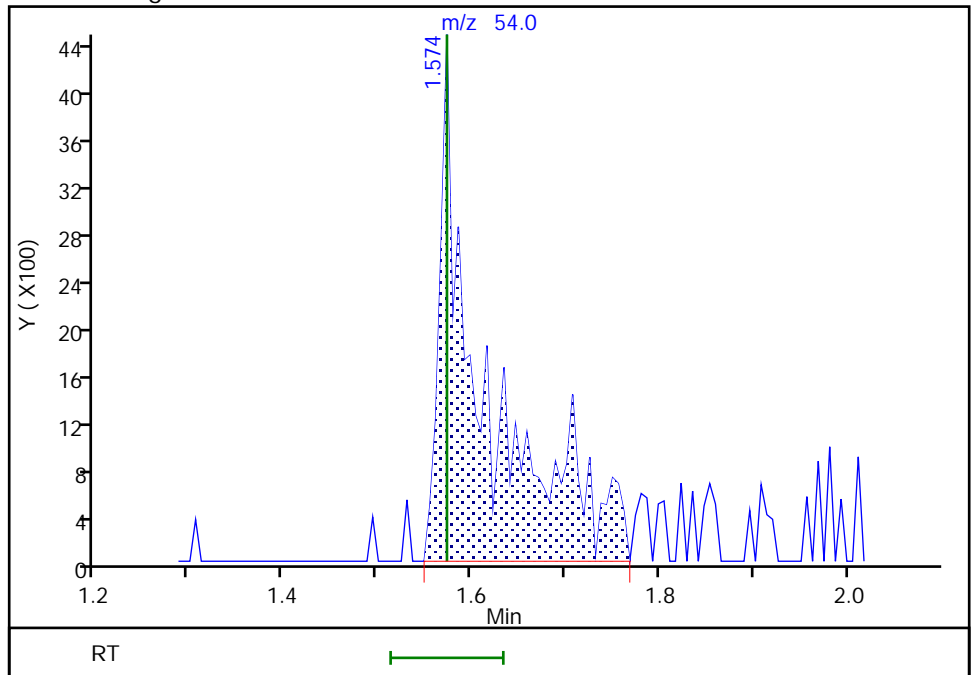
RT: 1.57
Area: 7860
Amount: 0.579263
Amount Units: ug/L

Processing Integration Results



RT: 1.57
Area: 14101
Amount: 1.012805
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:55:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

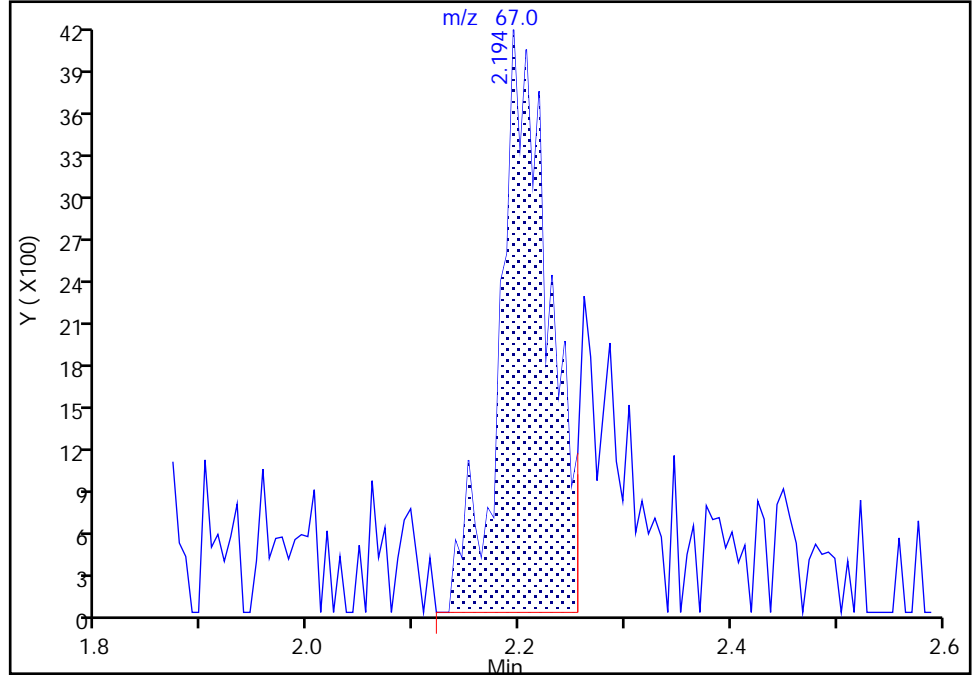
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

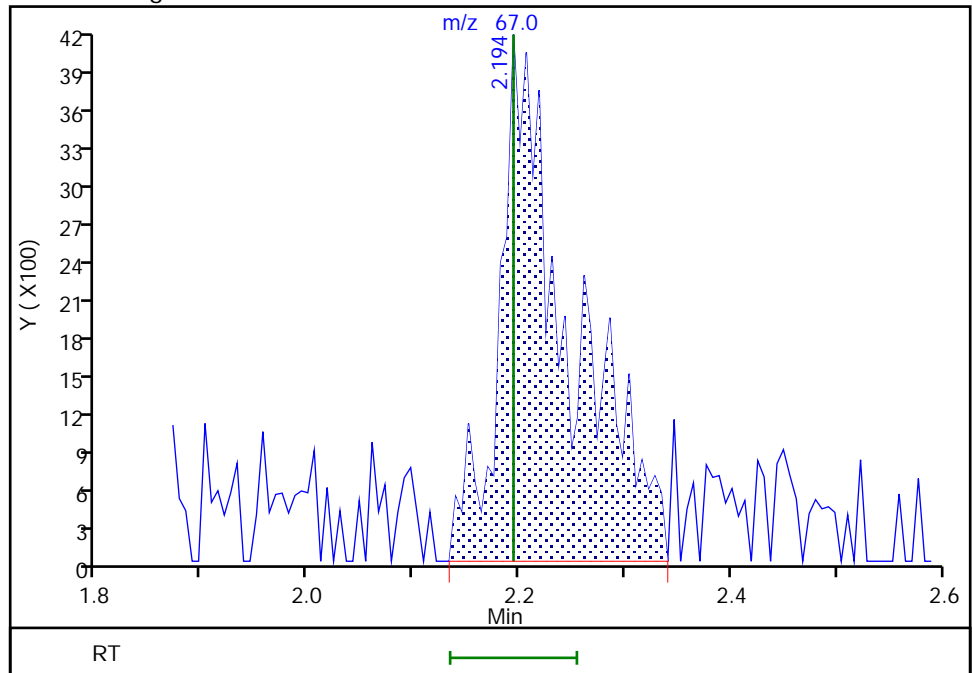
RT: 2.19
Area: 13440
Amount: 0.850503
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 18841
Amount: 1.064342
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:49:44
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

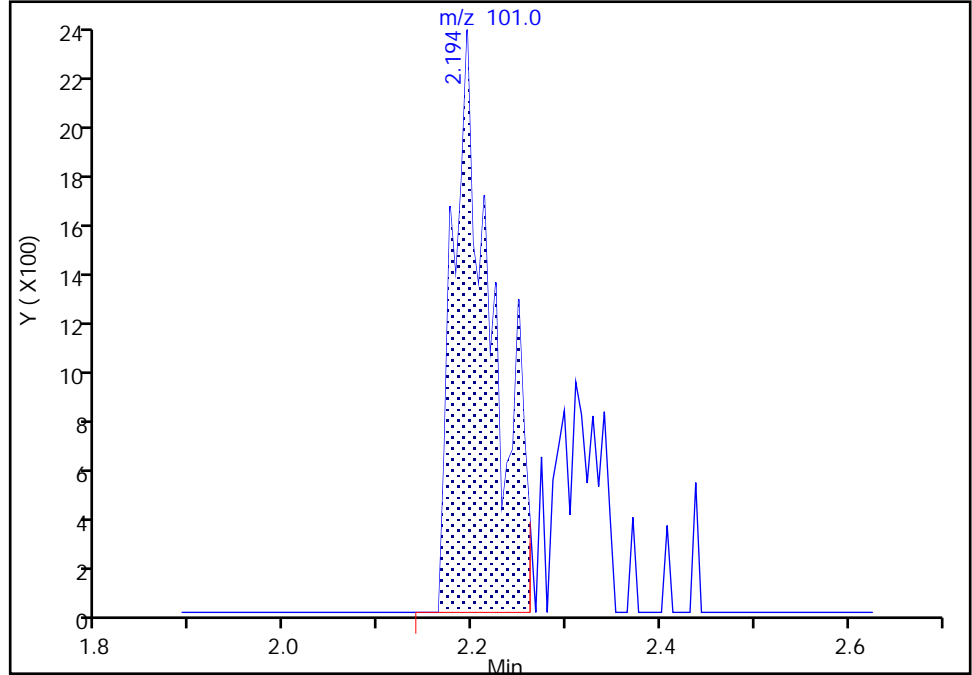
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

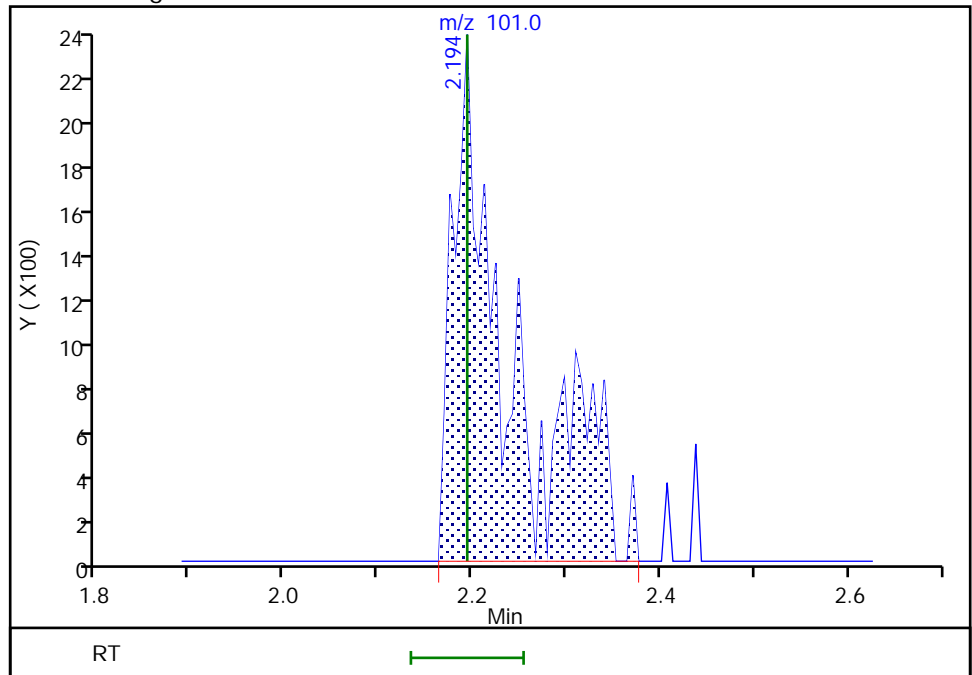
RT: 2.19
Area: 6814
Amount: 0.799434
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 9809
Amount: 0.775455
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:46:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

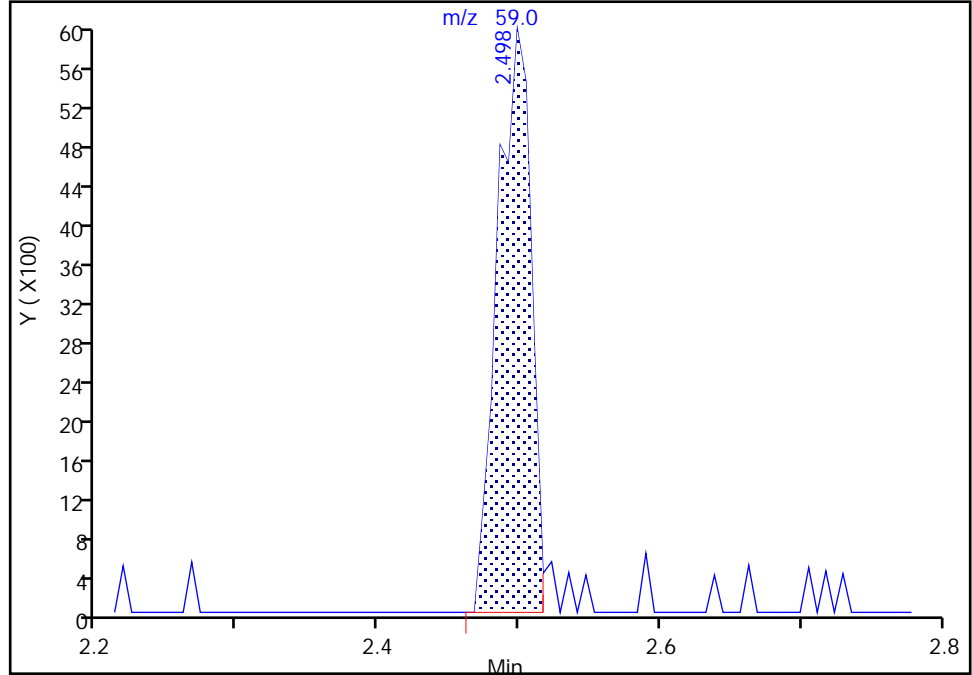
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

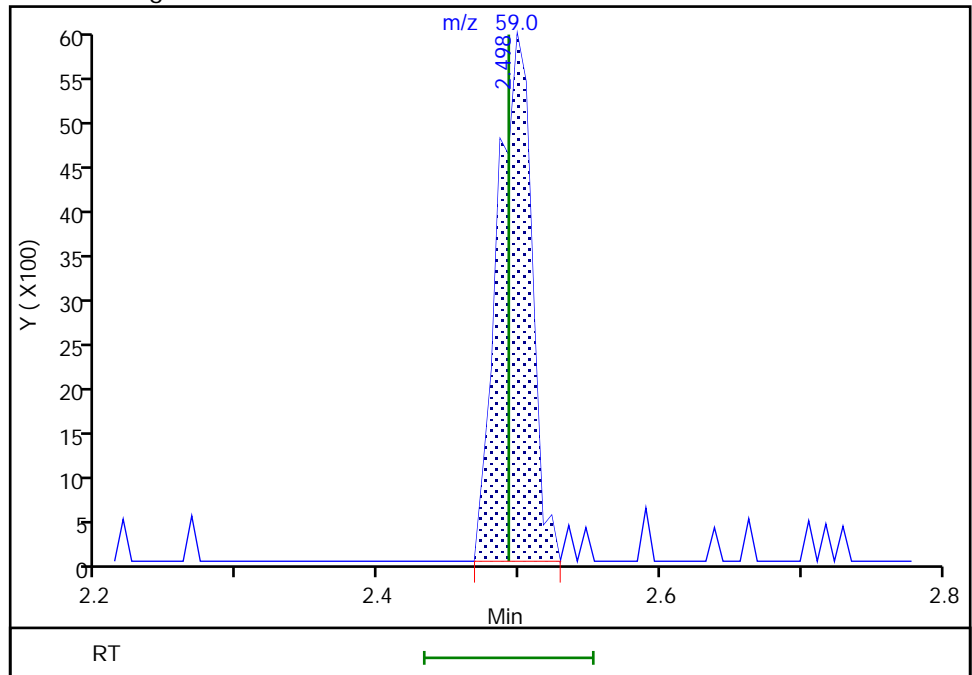
RT: 2.50
Area: 9925
Amount: 0.883933
Amount Units: ug/L

Processing Integration Results



RT: 2.50
Area: 10116
Amount: 0.899032
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:06:08
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

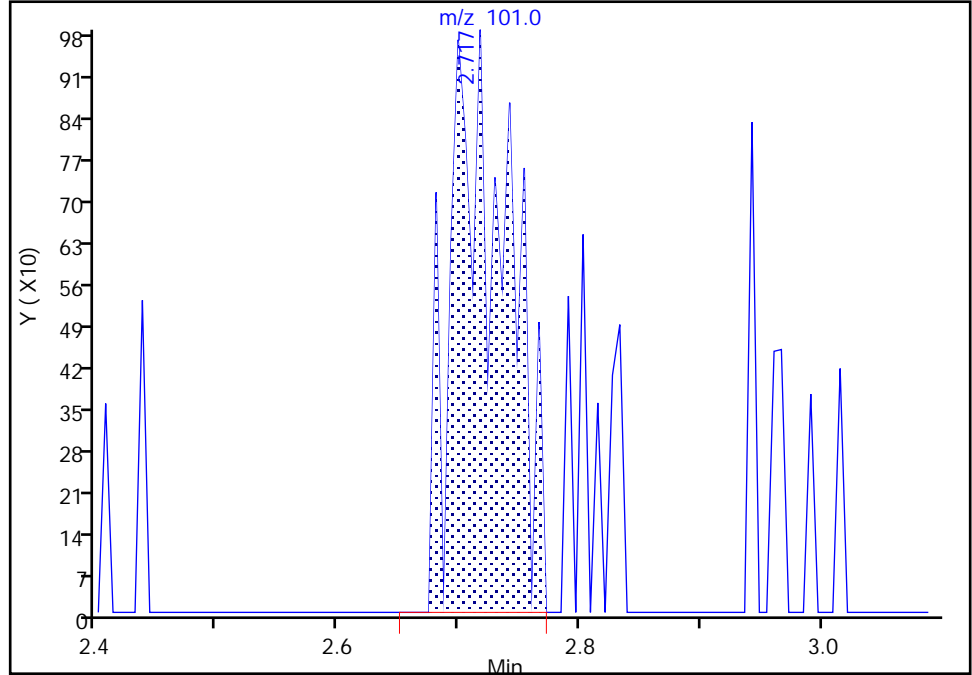
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

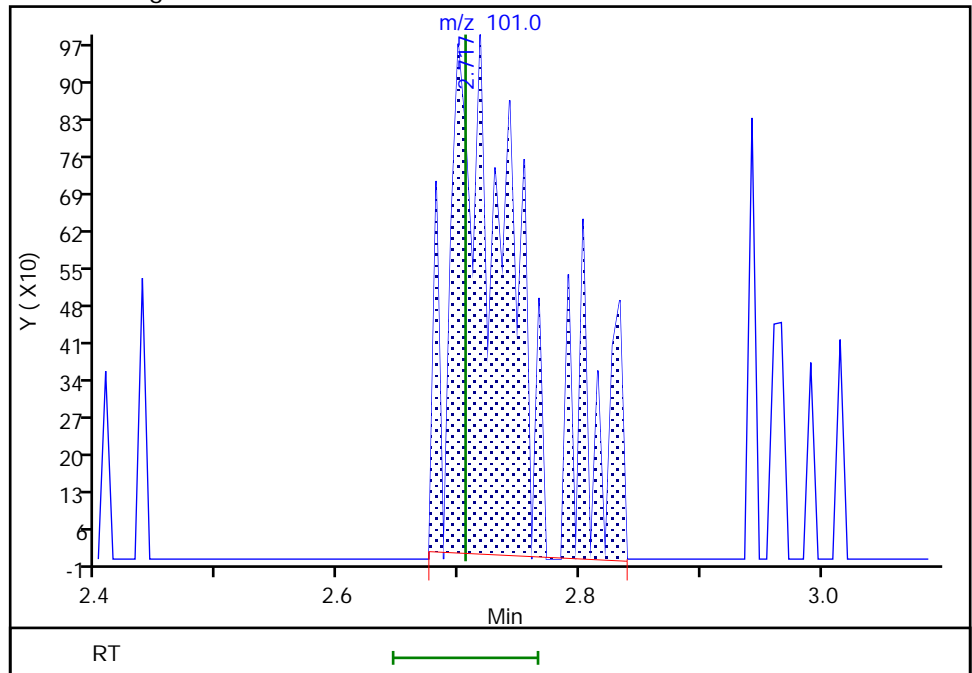
RT: 2.72
Area: 3185
Amount: 0.461181
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 4012
Amount: 0.885545
Amount Units: ug/L

Manual Integration Results



Reviewer: Hill, 21-Jun-2018 14:05:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

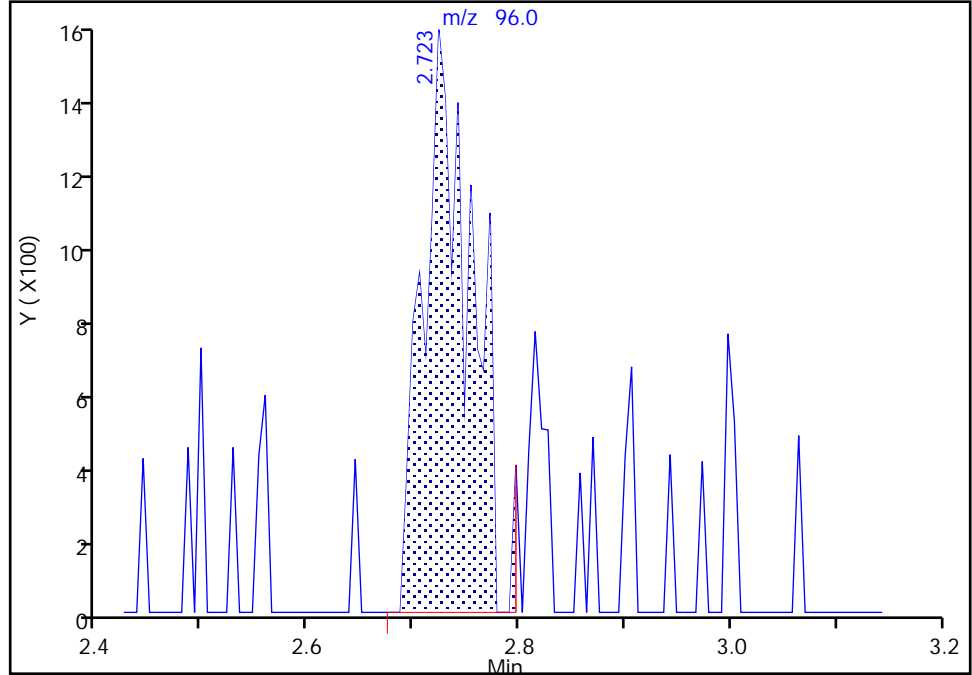
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

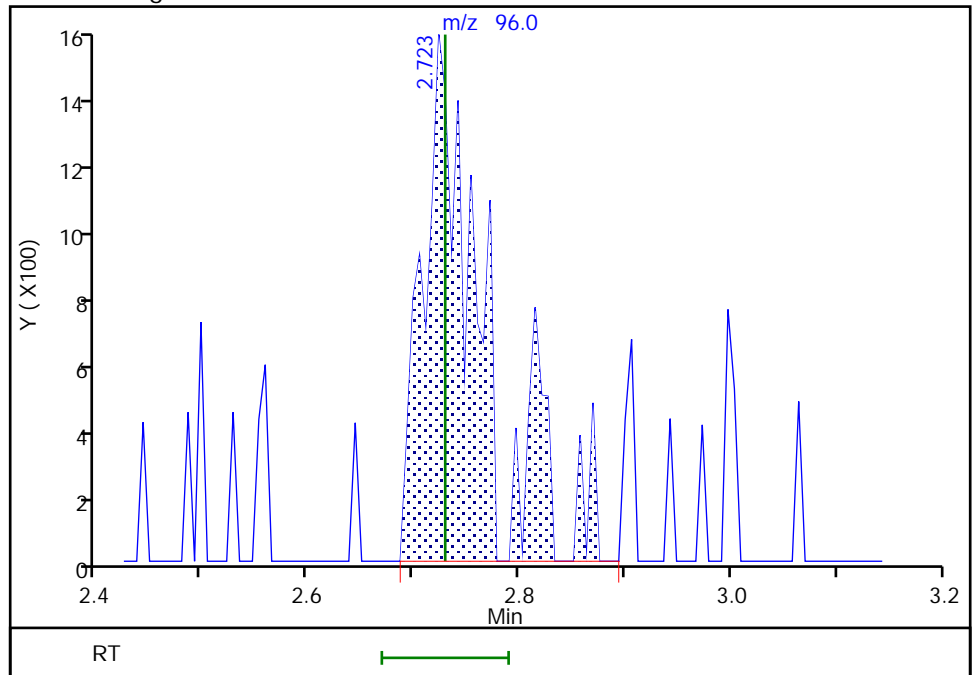
RT: 2.72
Area: 4813
Amount: 0.549905
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 5891
Amount: 0.679625
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:47:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

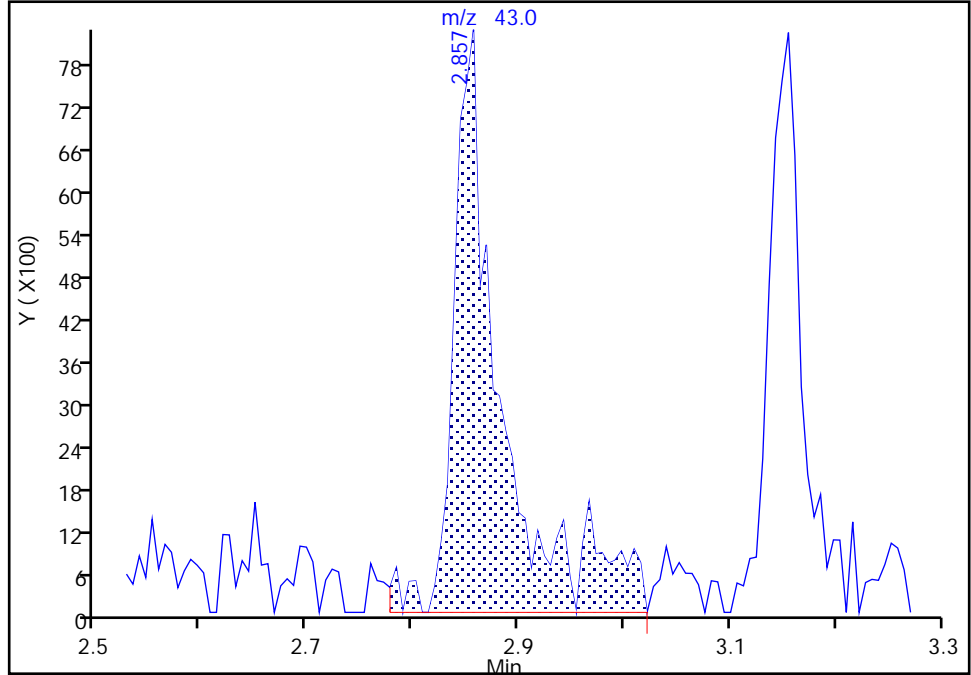
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

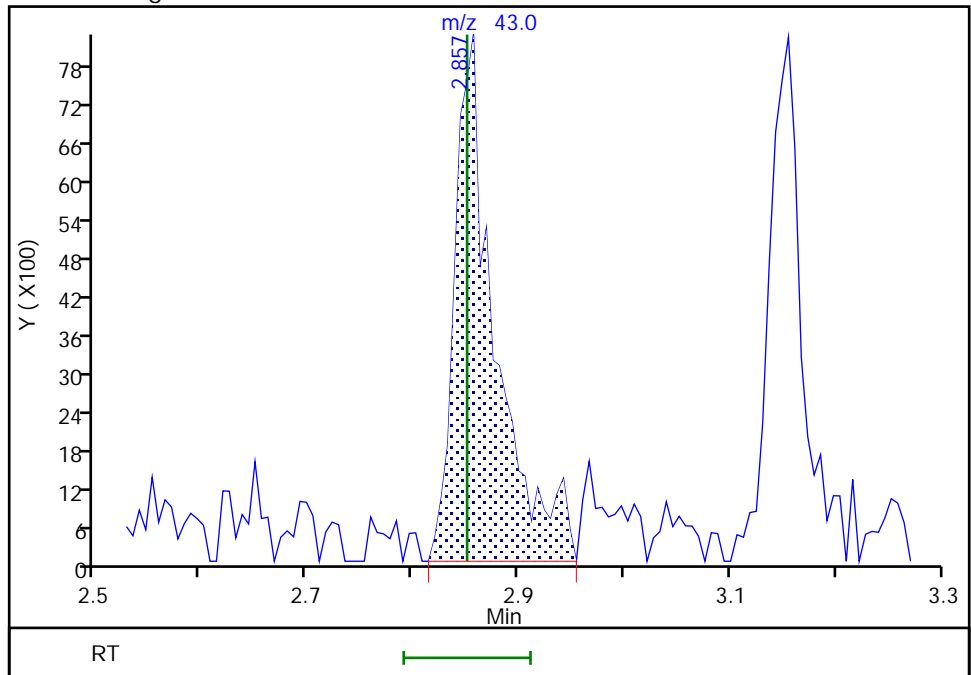
RT: 2.86
Area: 25800
Amount: 5.650467
Amount Units: ug/L

Processing Integration Results



RT: 2.86
Area: 21919
Amount: 5.805718
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:07:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

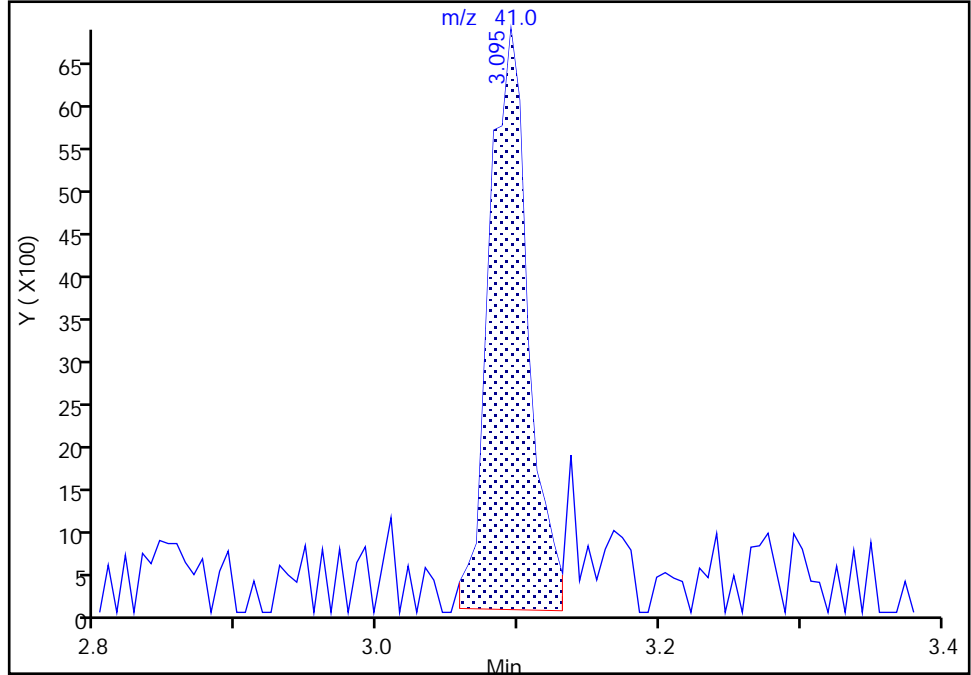
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

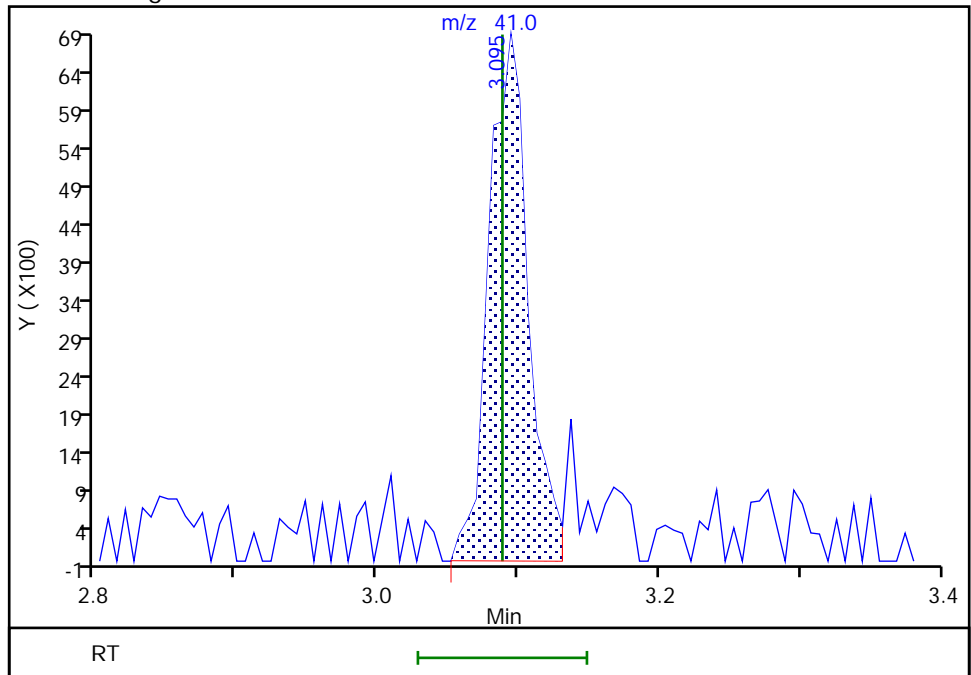
RT: 3.09
Area: 13141
Amount: 0.782798
Amount Units: ug/L

Processing Integration Results



RT: 3.09
Area: 13283
Amount: 0.790421
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:08:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

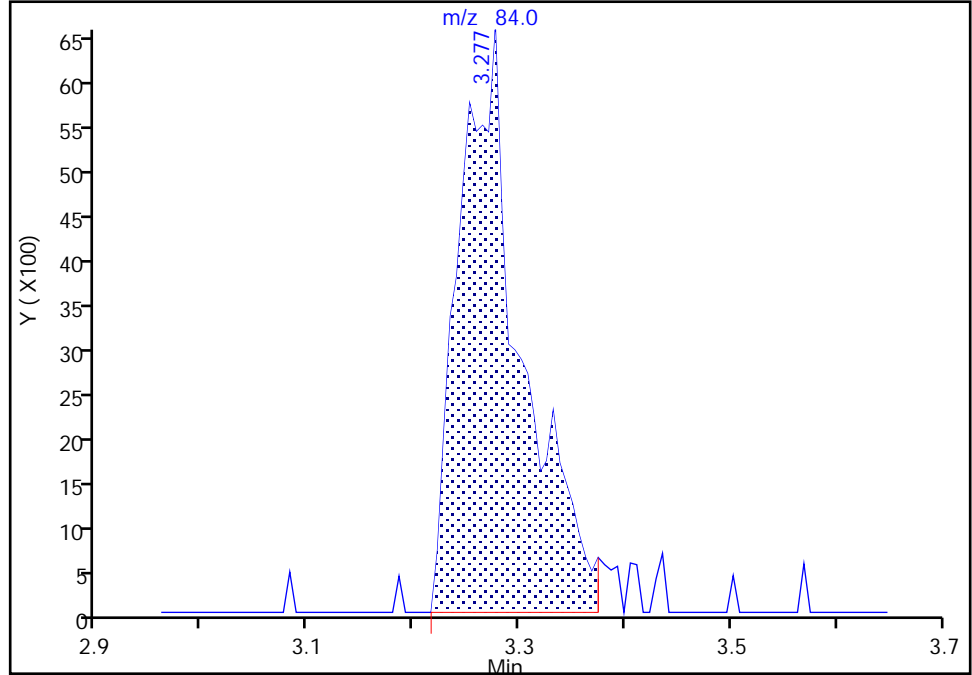
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

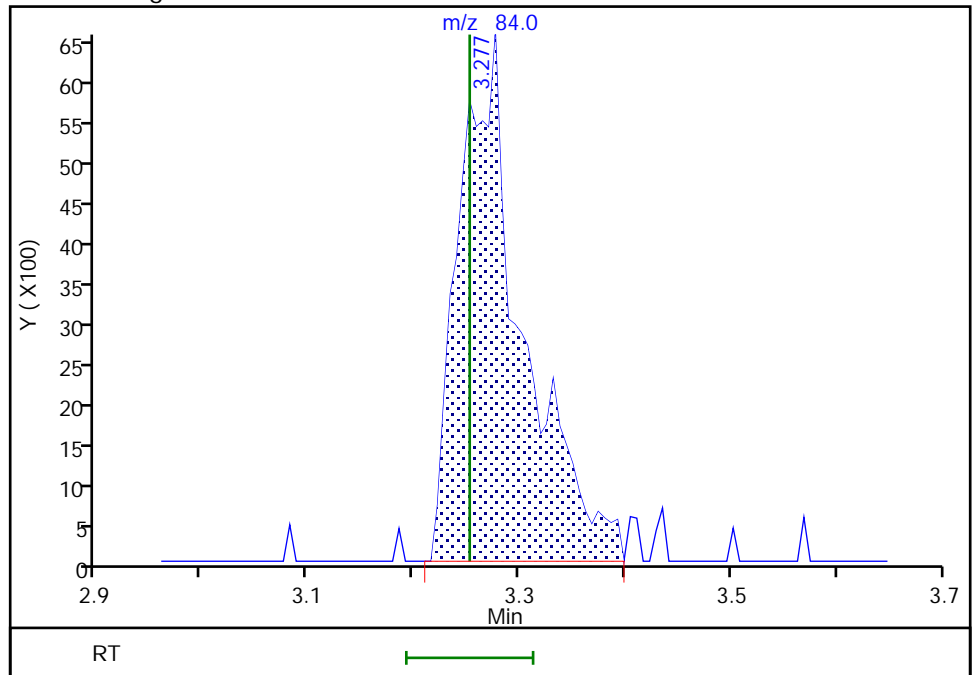
RT: 3.28
Area: 26844
Amount: 0.746640
Amount Units: ug/L

Processing Integration Results



RT: 3.28
Area: 27400
Amount: 0.766220
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:08:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

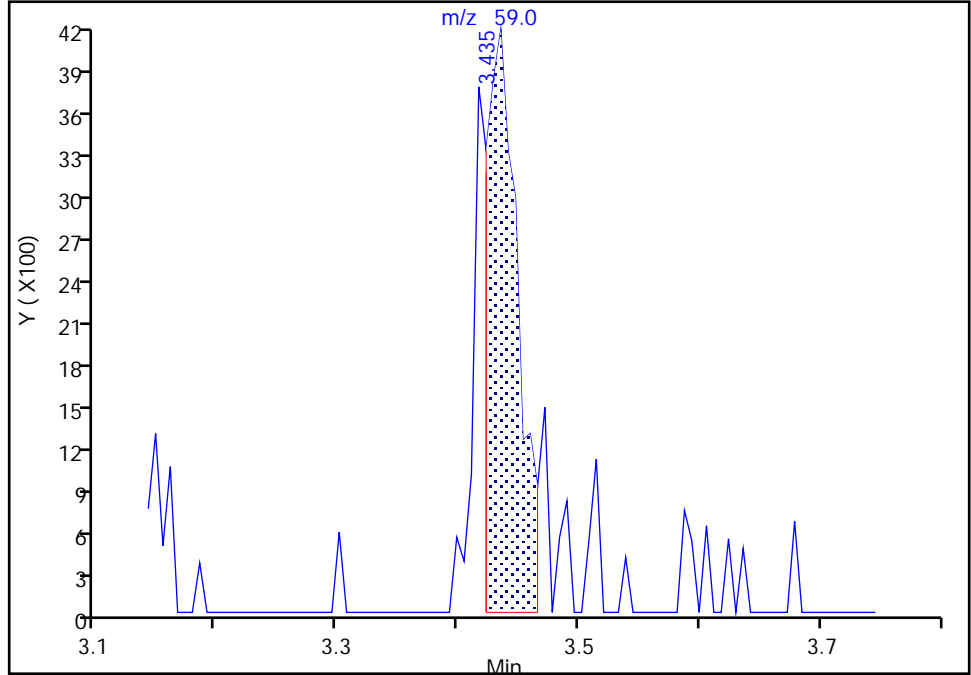
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

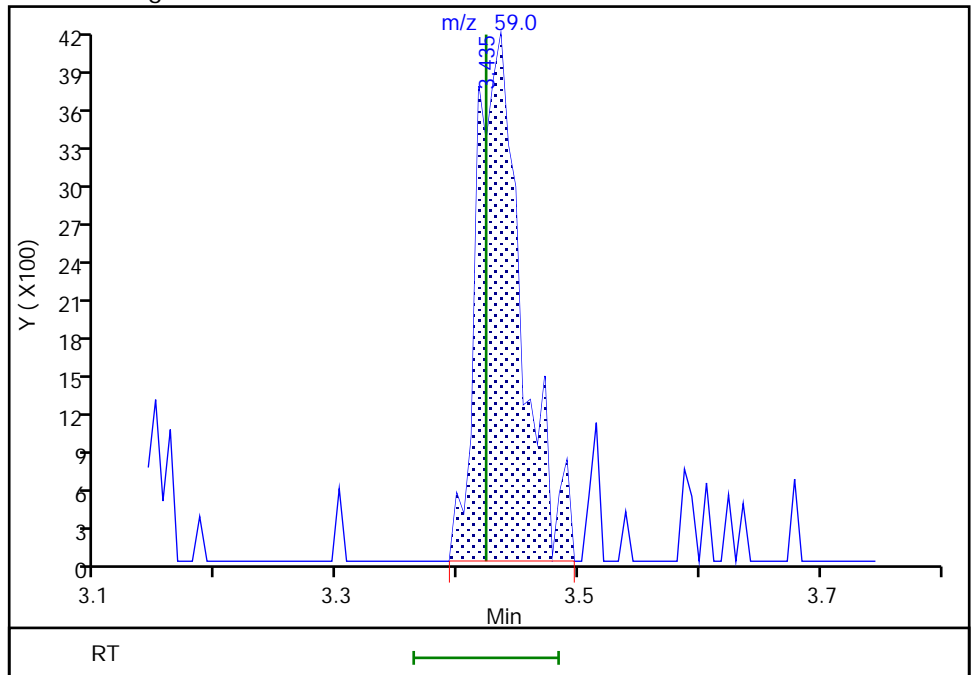
RT: 3.44
Area: 7629
Amount: 7.104469
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 10697
Amount: 8.362223
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:52:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

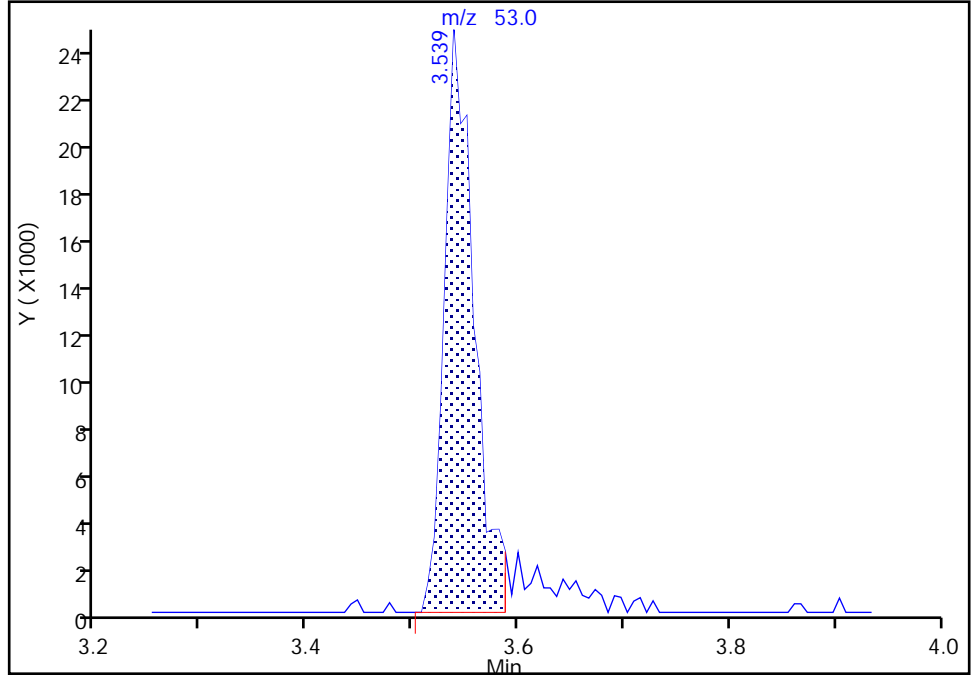
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

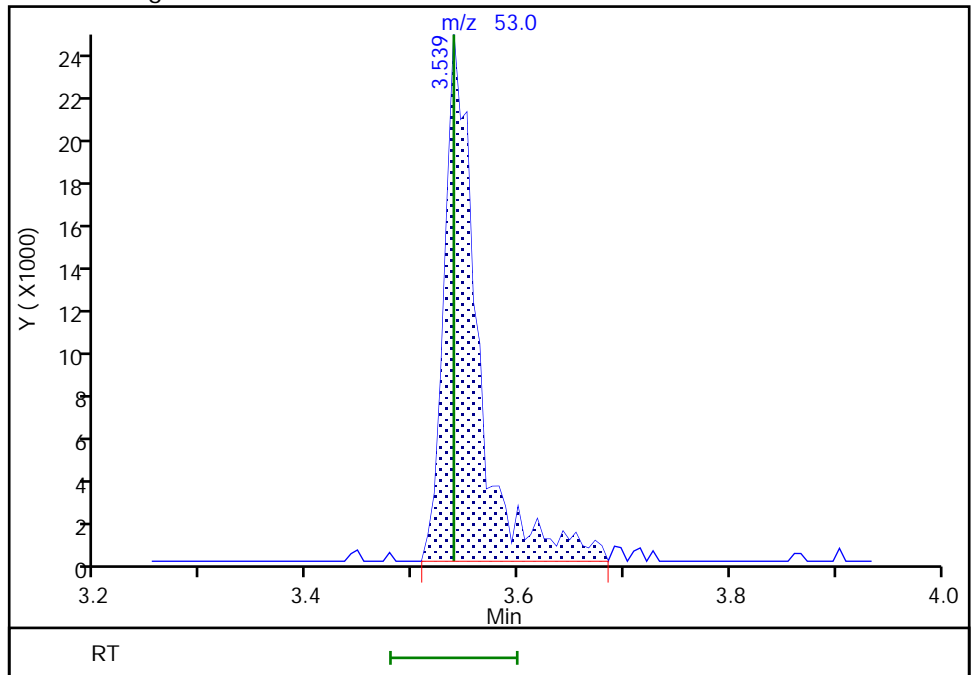
RT: 3.54
Area: 47894
Amount: 9.225375
Amount Units: ug/L

Processing Integration Results



RT: 3.54
Area: 54039
Amount: 10.257266
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:09:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

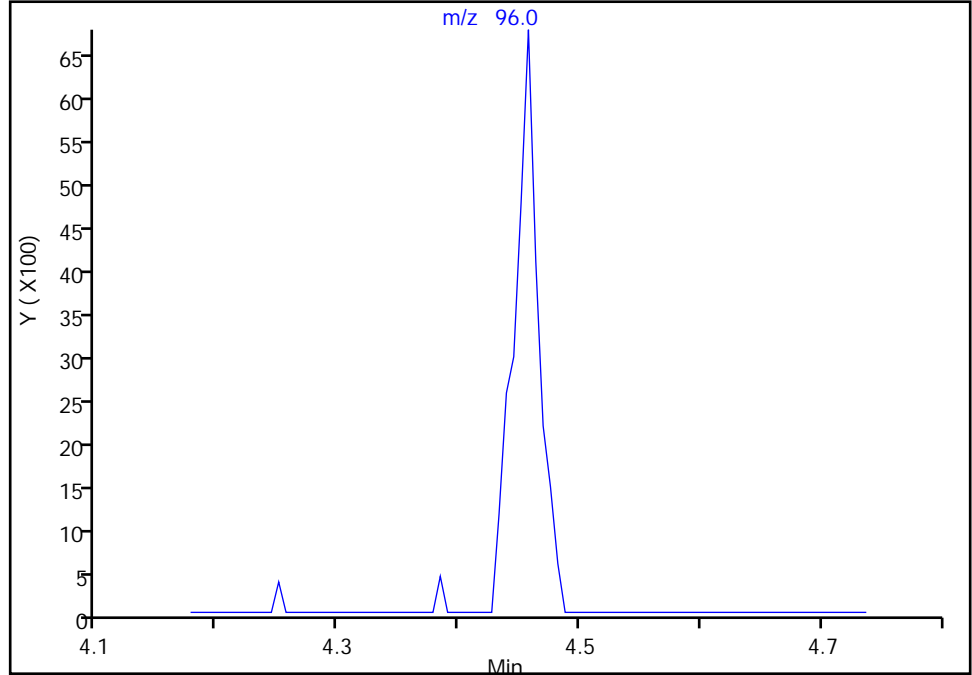
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

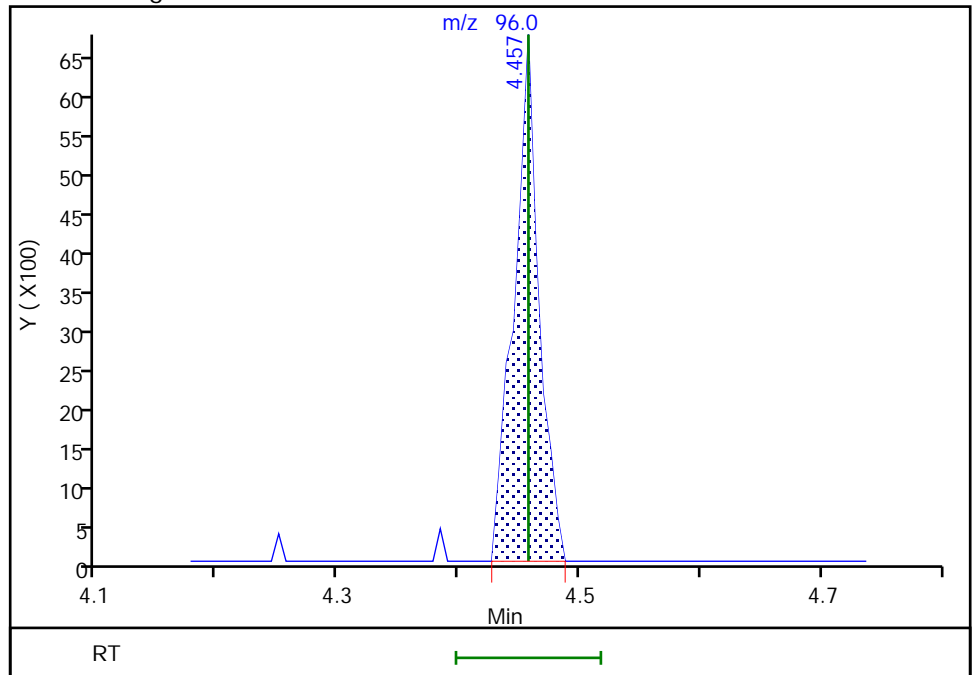
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 9571
Amount: 0.839608
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:09:29
Audit Action: Manually Integrated

TestAmerica Buffalo

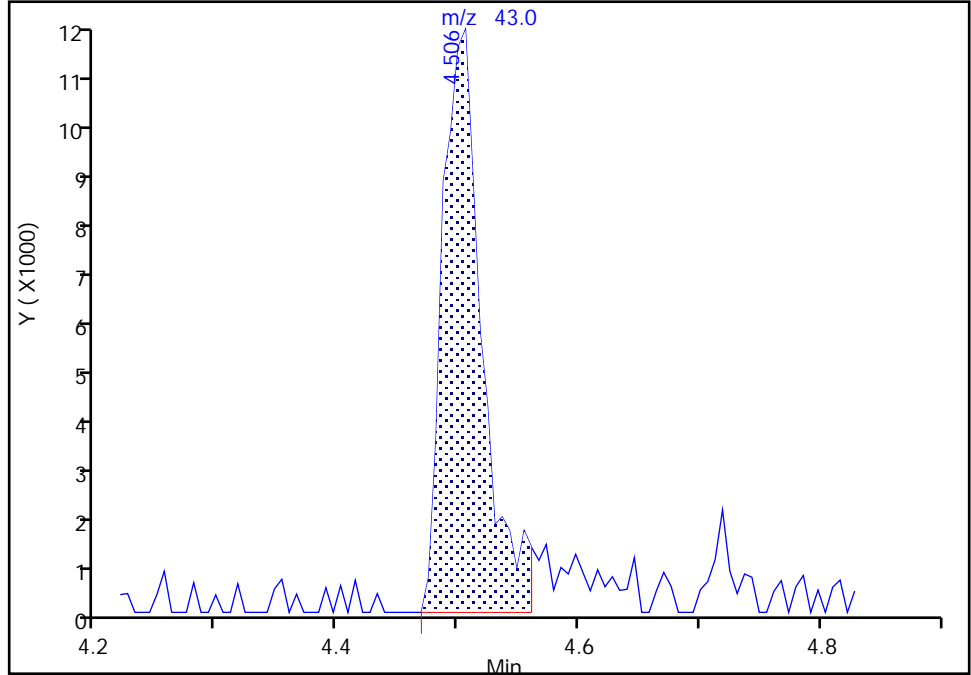
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

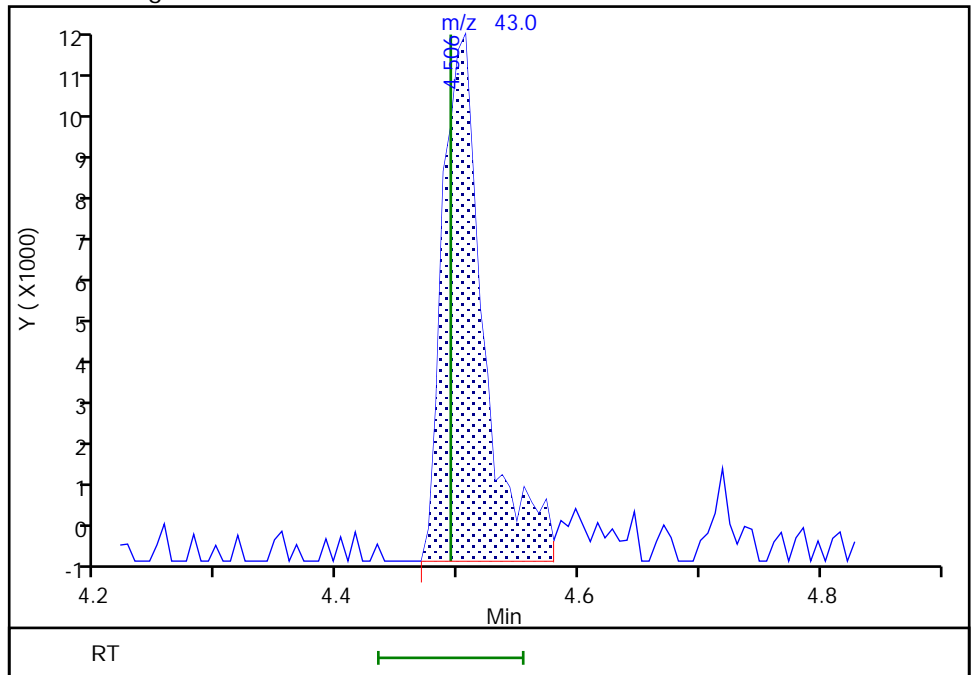
RT: 4.51
Area: 26981
Amount: 4.675650
Amount Units: ug/L

Processing Integration Results



RT: 4.51
Area: 28054
Amount: 4.839100
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:12:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

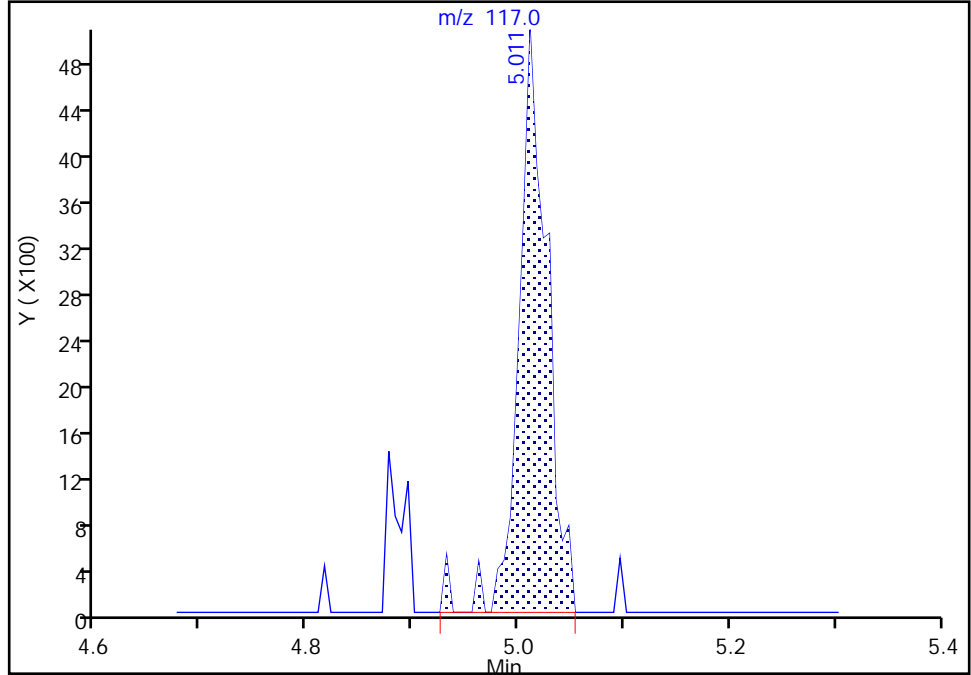
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

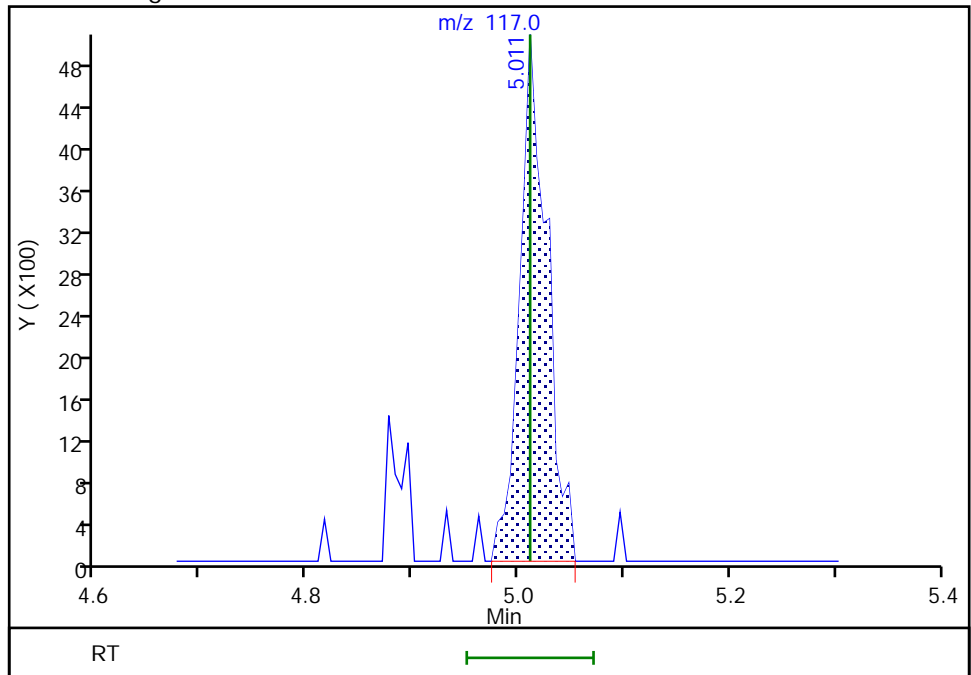
RT: 5.01
Area: 9483
Amount: 0.829824
Amount Units: ug/L

Processing Integration Results



RT: 5.01
Area: 9145
Amount: 0.803217
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:12:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

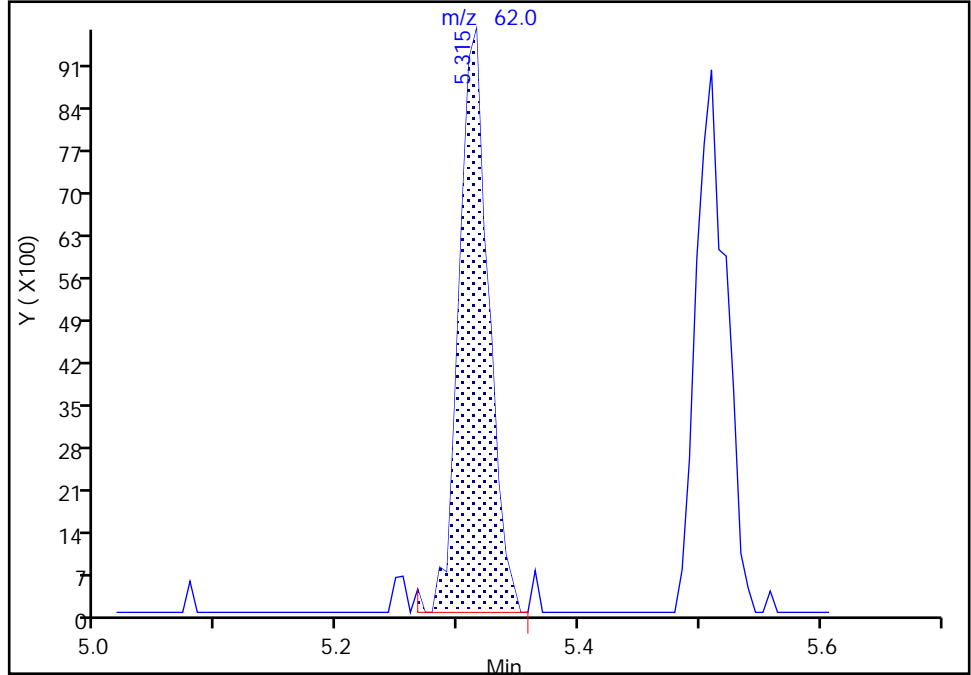
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

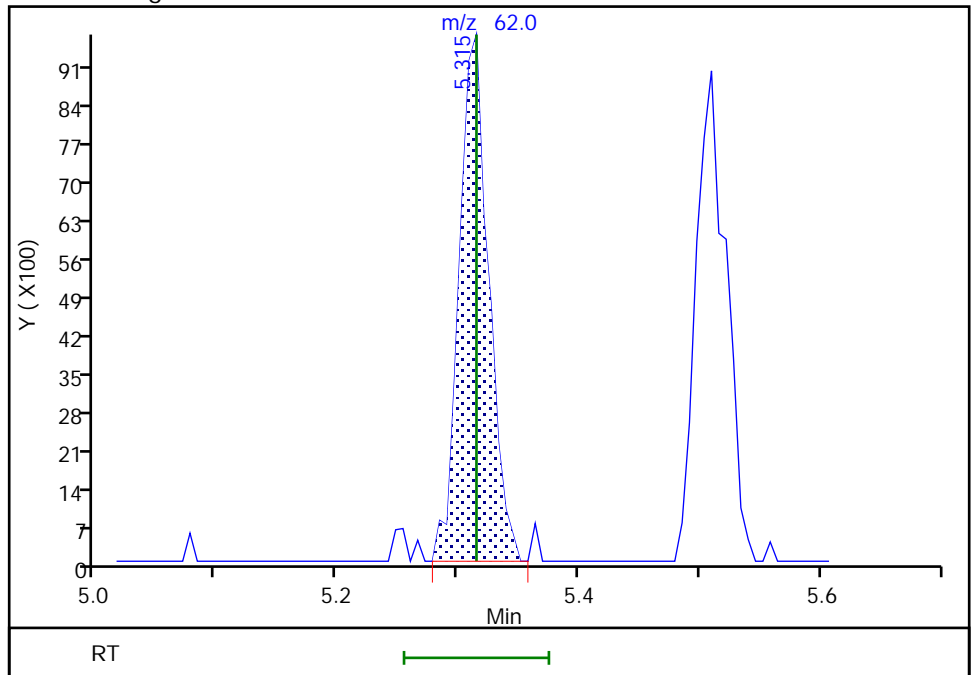
RT: 5.32
Area: 16387
Amount: 0.973266
Amount Units: ug/L

Processing Integration Results



RT: 5.32
Area: 16247
Amount: 0.965955
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:13:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

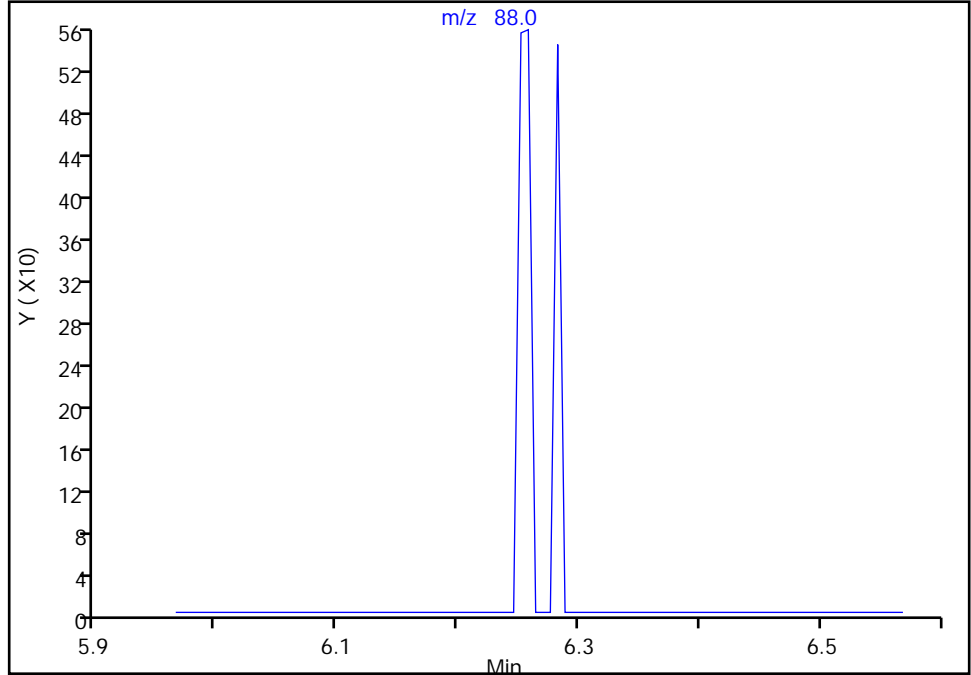
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

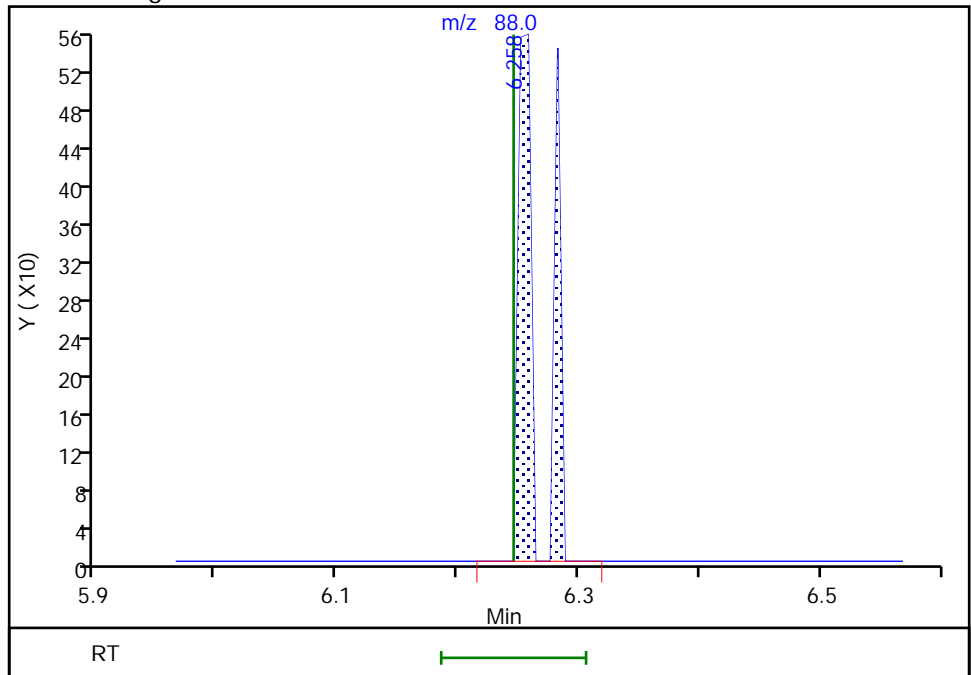
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 597
Amount: 20.073889
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:13:31
Audit Action: Manually Integrated

TestAmerica Buffalo

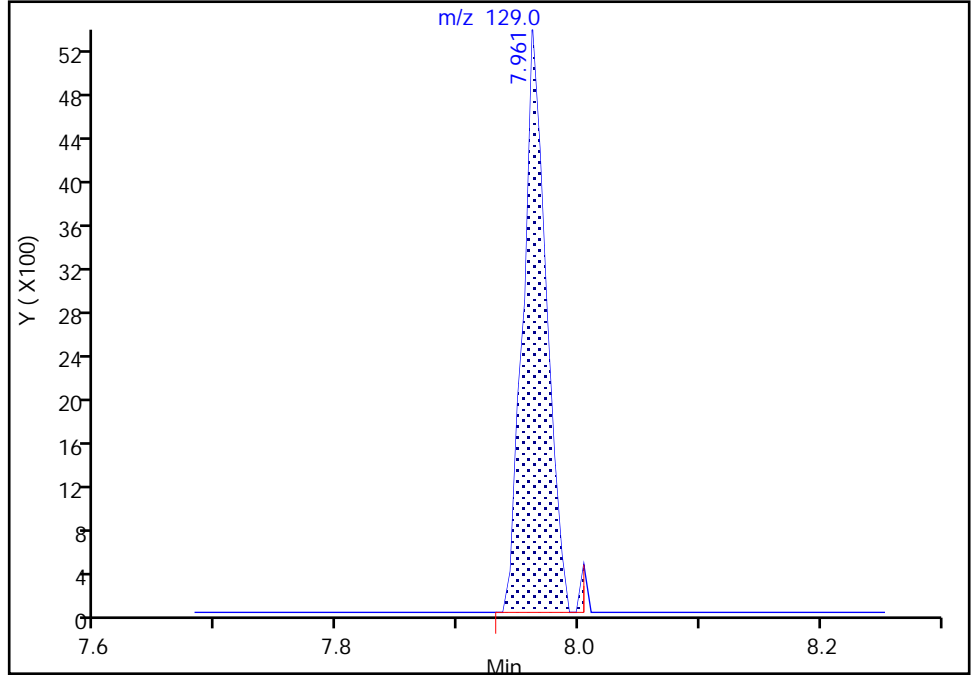
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

83 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

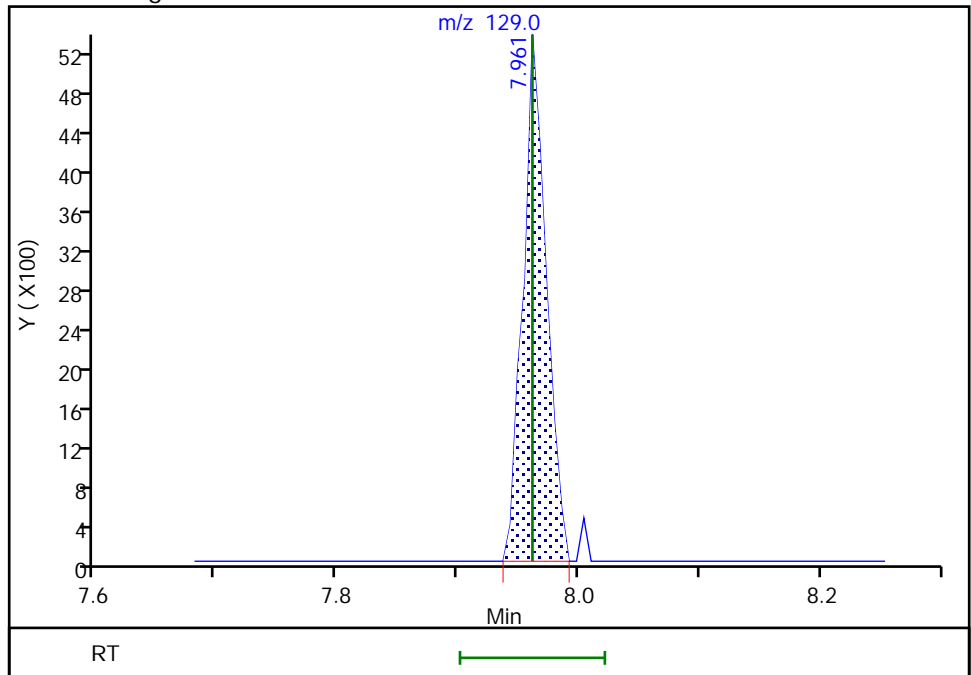
RT: 7.96
Area: 7317
Amount: 0.828185
Amount Units: ug/L

Processing Integration Results



RT: 7.96
Area: 7156
Amount: 0.811811
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:14:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

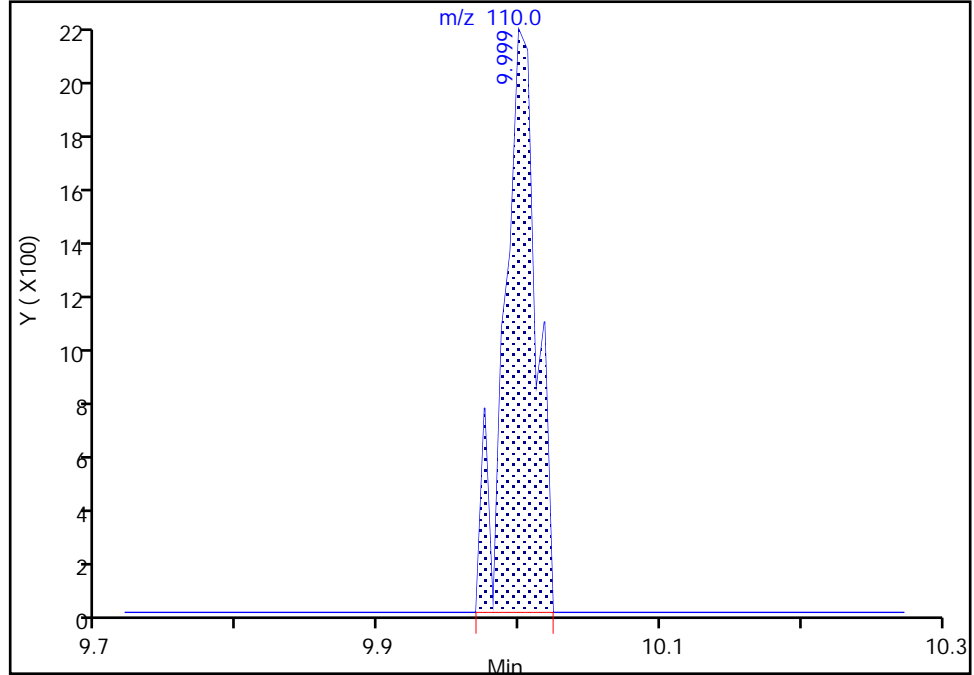
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4
Signal: 1

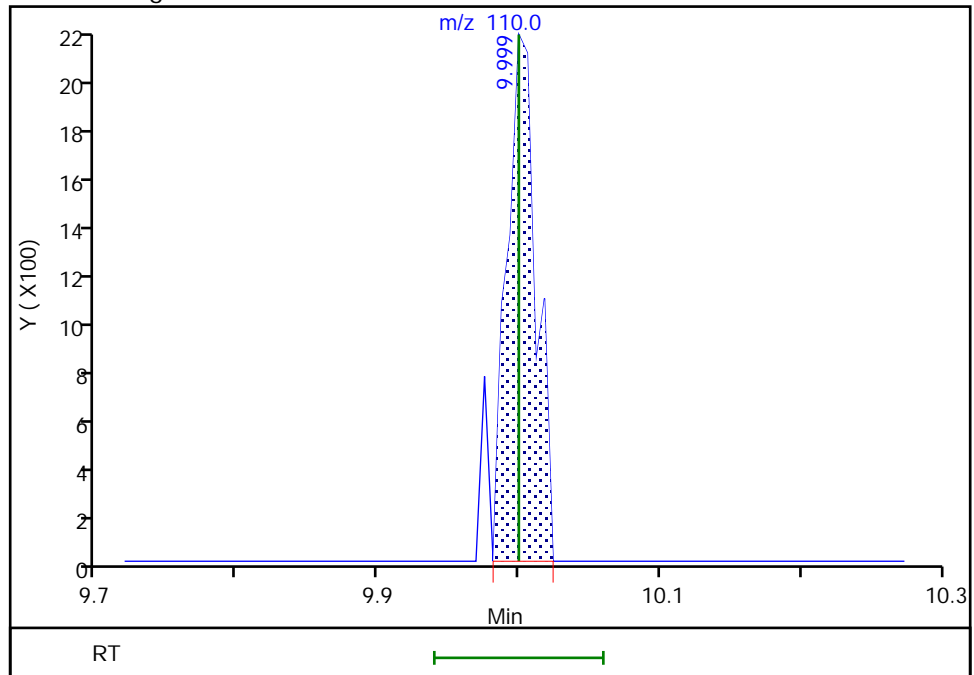
RT: 10.00
Area: 3397
Amount: 0.806128
Amount Units: ug/L

Processing Integration Results



RT: 10.00
Area: 3120
Amount: 0.746528
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:00
Audit Action: Manually Integrated

TestAmerica Buffalo

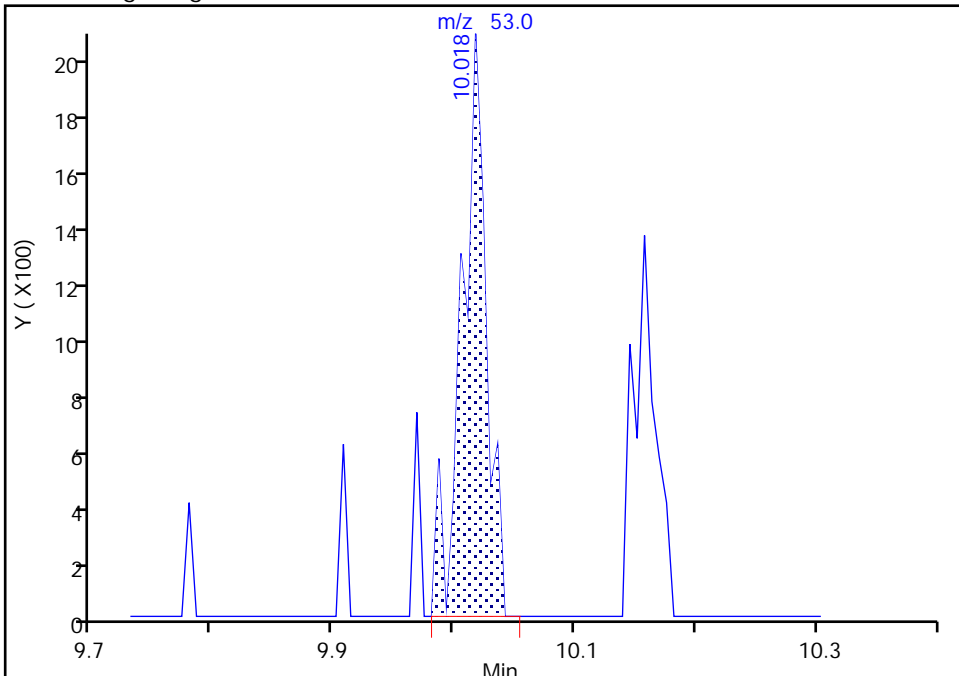
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

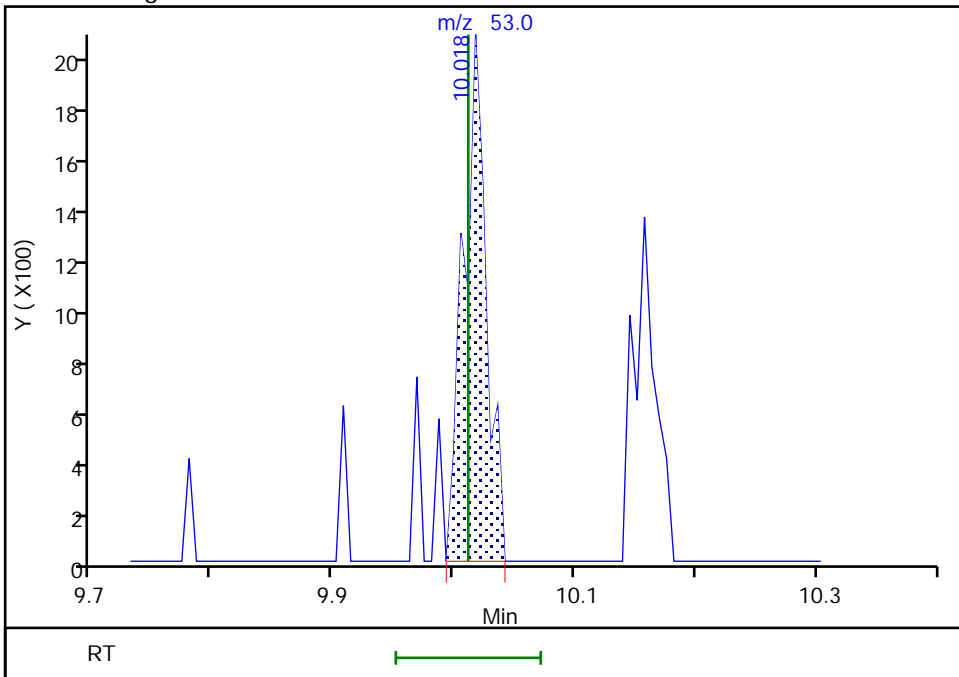
RT: 10.02
Area: 2886
Amount: 1.070549
Amount Units: ug/L

Processing Integration Results



RT: 10.02
Area: 2682
Amount: 1.162748
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

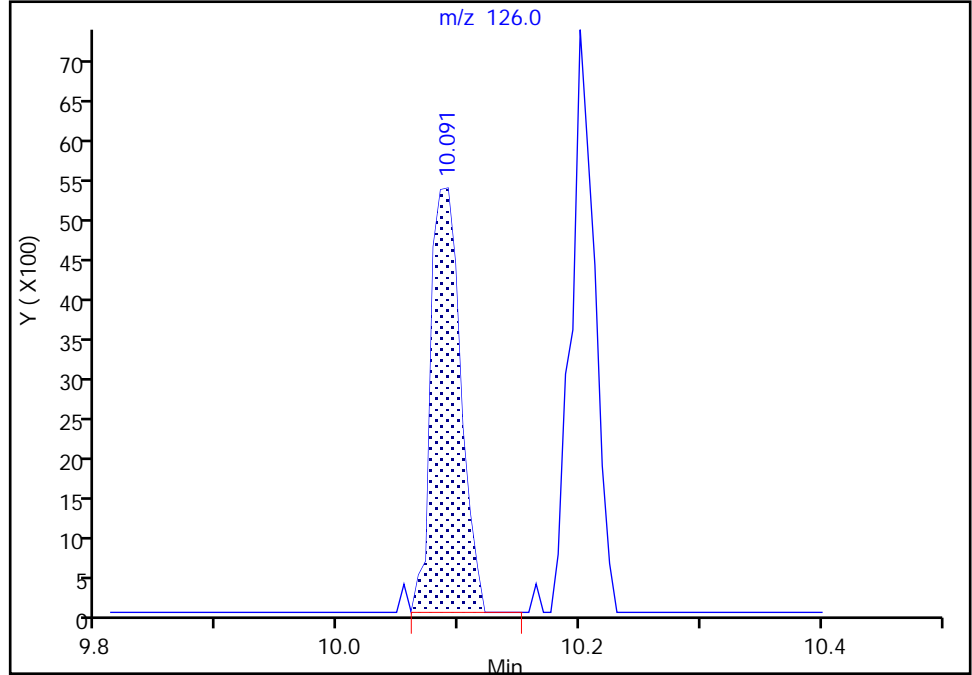
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

103 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

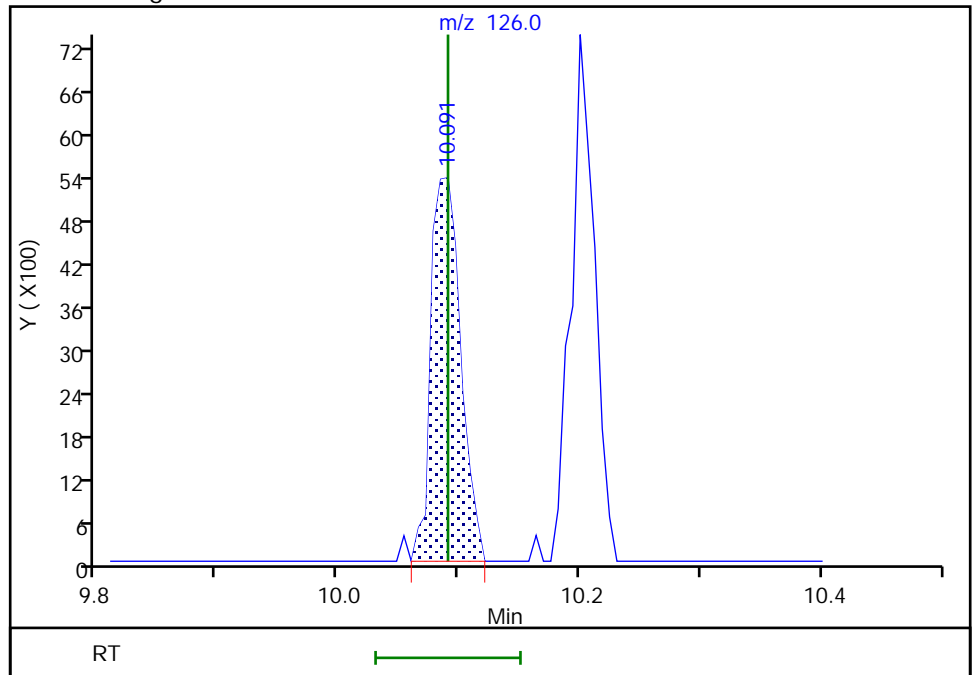
RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L

Processing Integration Results



RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:16
Audit Action: Manually Integrated

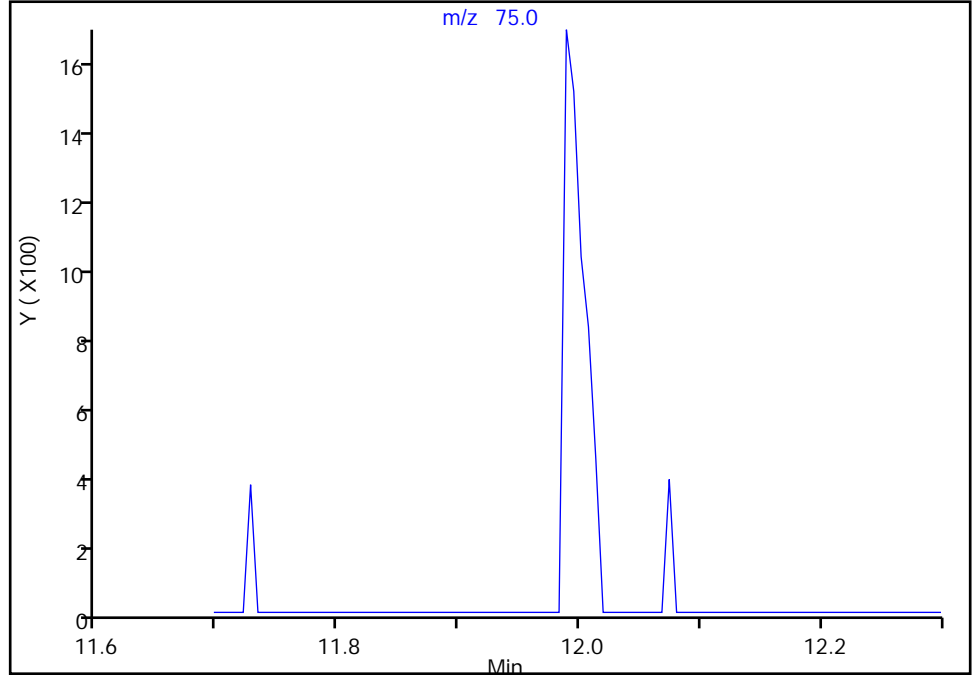
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

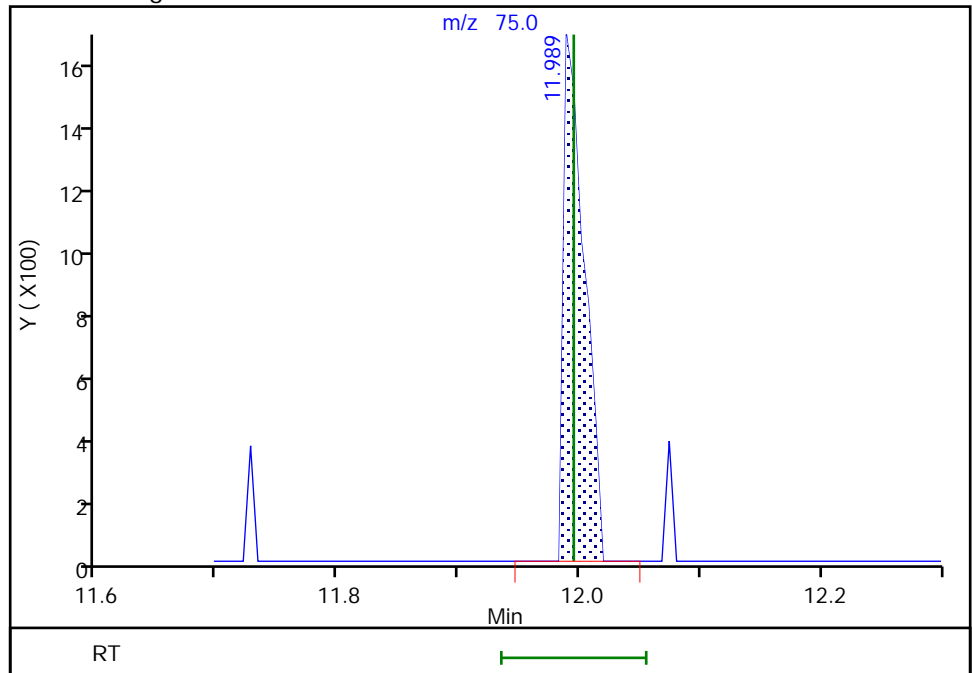
Not Detected
Expected RT: 11.99

Processing Integration Results



Manual Integration Results

RT: 11.99
Area: 1954
Amount: 0.793195
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:52:06
Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Jun-2018 14:38:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0072482-007
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:46 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:33:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	202958	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	394355	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	95	373516	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	55	237036	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	153545	25.0	24.1	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	987838	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	296734	25.0	25.2	
10 Dichlorodifluoromethane	85	1.276	1.282	-0.006	48	15348	2.00	1.57	
12 Chloromethane	50	1.464	1.464	0.000	69	31418	2.00	2.02	
13 Vinyl chloride	62	1.555	1.549	0.006	74	26352	2.00	1.91	
151 Butadiene	54	1.580	1.574	0.006	79	27634	2.00	1.92	
14 Bromomethane	94	1.872	1.872	0.000	76	13102	2.00	1.77	M
15 Chloroethane	64	1.981	1.969	0.012	40	15522	2.00	1.86	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	61	24492	2.00	1.87	M
16 Dichlorofluoromethane	67	2.206	2.194	0.012	58	32362	2.00	1.77	M
18 Ethyl ether	59	2.498	2.492	0.006	75	22137	2.00	1.90	
20 Acrolein	56	2.687	2.687	0.000	77	19651	10.0	8.82	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	12	12129	2.00	1.88	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	67	18776	2.00	2.09	M
23 Acetone	43	2.851	2.851	0.000	92	45897	10.0	11.8	M
25 Iodomethane	142	2.900	2.894	0.006	83	23539	2.00	1.80	M
26 Carbon disulfide	76	2.918	2.918	0.000	91	56275	2.00	1.97	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	85	34229	2.00	1.97	
27 Methyl acetate	43	3.149	3.143	0.006	88	47623	4.00	4.65	
30 Methylene Chloride	84	3.253	3.253	0.000	87	42609	2.00	2.06	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	89	23908	20.0	18.1	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	85	67897	2.00	2.02	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	21095	2.00	2.06	
33 Acrylonitrile	53	3.545	3.539	0.006	98	110281	20.0	20.2	
35 Hexane	57	3.666	3.660	0.006	81	34429	2.00	1.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.904	3.892	0.012	75	44053	2.00	2.04	
37 Vinyl acetate	43	3.952	3.952	0.000	93	101560	4.00	4.08	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	73	23960	2.00	2.00	
45 cis-1,2-Dichloroethene	96	4.463	4.457	0.006	70	22561	2.00	1.91	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	91	58111	10.0	9.69	
48 Chlorobromomethane	128	4.695	4.695	0.000	79	11538	2.00	2.05	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	15949	4.00	3.87	
50 Chloroform	83	4.768	4.774	-0.006	84	38075	2.00	2.02	
51 1,1,1-Trichloroethane	97	4.871	4.877	-0.006	62	26672	2.00	1.90	
52 Cyclohexane	56	4.877	4.883	-0.006	83	35177	2.00	1.86	
55 Carbon tetrachloride	117	5.011	5.011	0.000	63	24702	2.00	2.10	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	86	30749	2.00	2.15	
57 Benzene	78	5.236	5.236	0.000	53	85767	2.00	1.99	
53 Isobutyl alcohol	43	5.266	5.266	0.000	63	28420	50.0	51.0	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	56	36030	2.00	2.07	
59 n-Heptane	43	5.406	5.412	-0.006	92	34128	2.00	1.94	M
62 Trichloroethene	95	5.850	5.850	0.000	83	22060	2.00	1.99	
64 Methylcyclohexane	83	5.966	5.960	0.006	87	31597	2.00	1.87	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	84	26992	2.00	2.08	
67 Dibromomethane	93	6.234	6.234	0.000	77	12583	2.00	1.86	
66 1,4-Dioxane	88	6.240	6.246	-0.006	24	2267	40.0	38.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	80	23598	2.00	1.81	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	75	15014	2.00	1.73	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	71	30883	2.00	1.88	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	137972	10.0	11.0	
74 Toluene	92	7.092	7.085	0.007	74	54960	2.00	2.10	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	86	28095	2.00	1.95	
75 Ethyl methacrylate	69	7.420	7.414	0.006	58	28412	2.00	2.01	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	82	17708	2.00	2.24	
81 Tetrachloroethene	166	7.621	7.615	0.006	83	22036	2.00	1.99	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	84	35902	2.00	2.16	
80 2-Hexanone	43	7.797	7.791	0.006	77	98893	10.0	10.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	66	18127	2.00	2.02	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	76	19979	2.00	2.01	
87 Chlorobenzene	112	8.539	8.539	0.000	86	60005	2.00	2.09	
88 Ethylbenzene	91	8.631	8.631	0.000	95	101499	2.00	2.15	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	43	19212	2.00	2.07	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	39460	2.00	2.05	
91 o-Xylene	106	9.178	9.178	0.000	94	38904	2.00	2.13	
92 Styrene	104	9.209	9.209	0.000	89	64472	2.00	2.06	
95 Bromoform	173	9.470	9.464	0.006	64	9957	2.00	1.74	
94 Isopropylbenzene	105	9.555	9.561	-0.006	89	97764	2.00	2.08	
101 Bromobenzene	156	9.908	9.908	0.000	88	23921	2.00	2.01	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	59	25318	2.00	1.98	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	112308	2.00	2.06	
100 1,2,3-Trichloropropane	110	10.006	9.999	0.007	65	7744	2.00	1.84	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	45	6261	2.00	1.92	
103 2-Chlorotoluene	126	10.091	10.091	0.000	92	23261	2.00	1.98	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	86	82695	2.00	2.02	
105 4-Chlorotoluene	126	10.200	10.200	0.000	79	26092	2.00	2.17	
106 tert-Butylbenzene	134	10.480	10.474	0.006	84	17151	2.00	1.97	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	69	85998	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.681	10.687	-0.006	88	101392	2.00	2.07	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	69	48178	2.00	2.08	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	93	85693	2.00	2.03	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	53	49506	2.00	2.10	
115 n-Butylbenzene	91	11.210	11.210	0.000	90	80619	2.00	2.12	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	89	46309	2.00	2.03	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	34	4266	2.00	1.72	
119 1,2,4-Trichlorobenzene	180	12.658	12.664	-0.006	71	35174	2.00	2.17	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	68	15718	2.00	2.03	
121 Naphthalene	128	12.883	12.877	0.006	93	89284	2.00	2.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	86	28319	2.00	1.89	
S 123 Total BTEX	1				0			10.4	
S 125 1,2-Dichloroethene, Total	1				0			3.97	
S 124 Xylenes, Total	1				0			4.19	
S 126 1,3-Dichloropropene, Total	1				0			3.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 2.00	Units: uL	
GAS CORP mix_00287	Amount Added: 2.00	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D

Injection Date: 20-Jun-2018 14:38:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

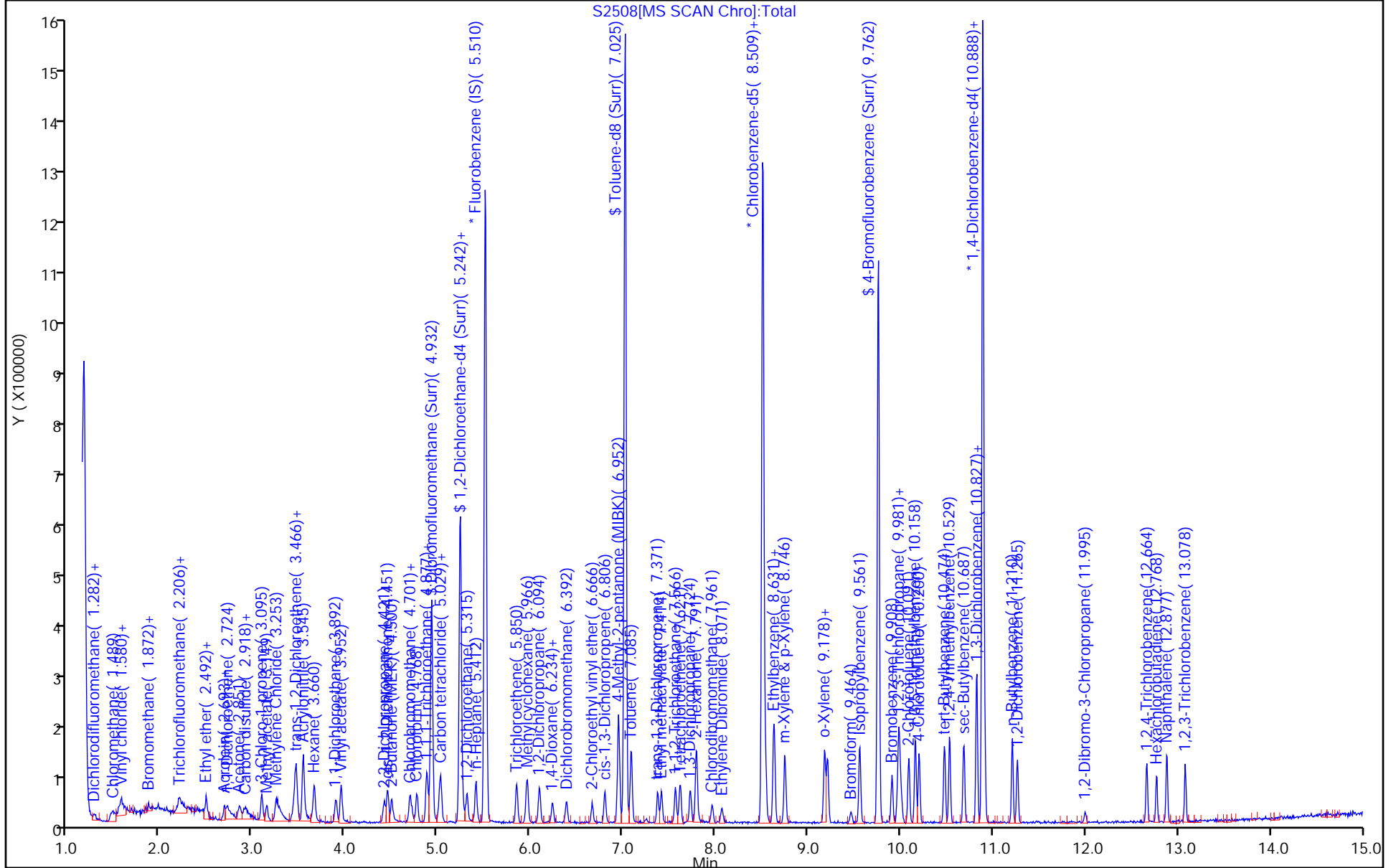
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

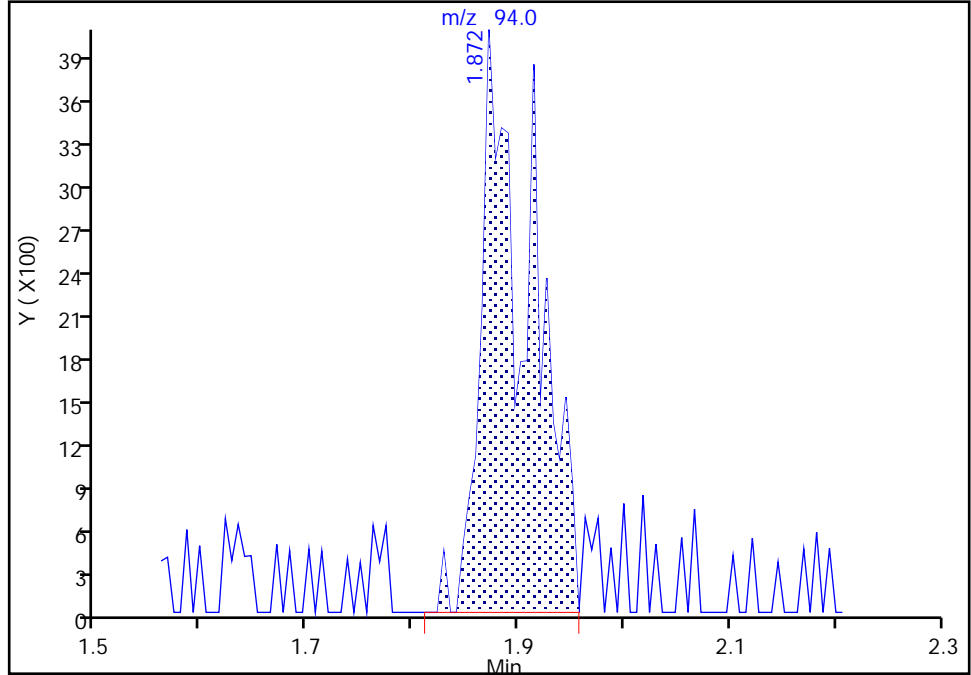
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

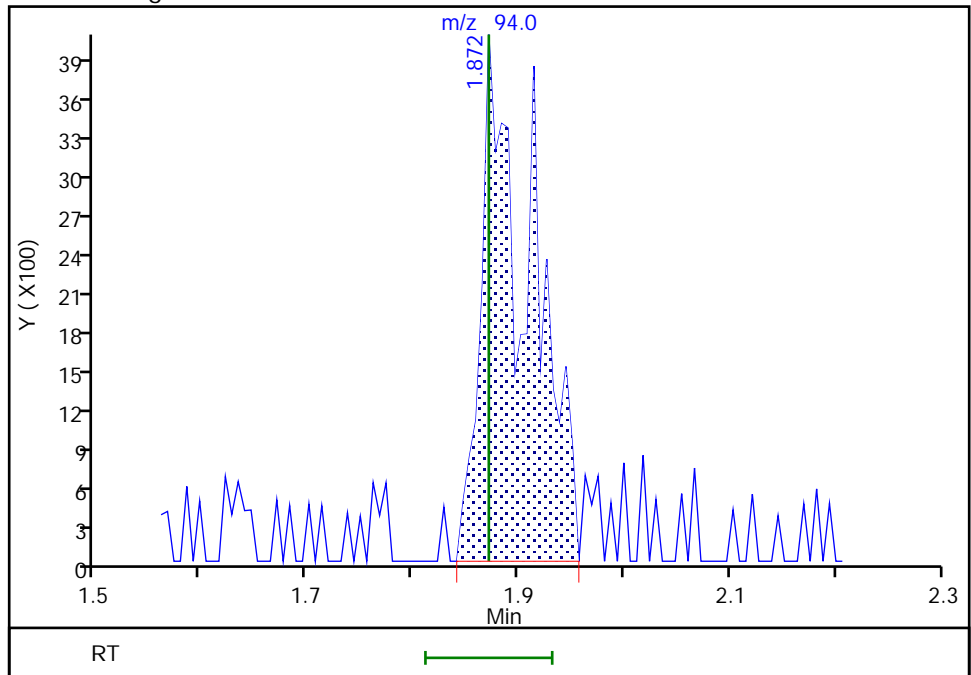
RT: 1.87
Area: 13255
Amount: 1.789184
Amount Units: ug/L

Processing Integration Results



RT: 1.87
Area: 13102
Amount: 1.770817
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

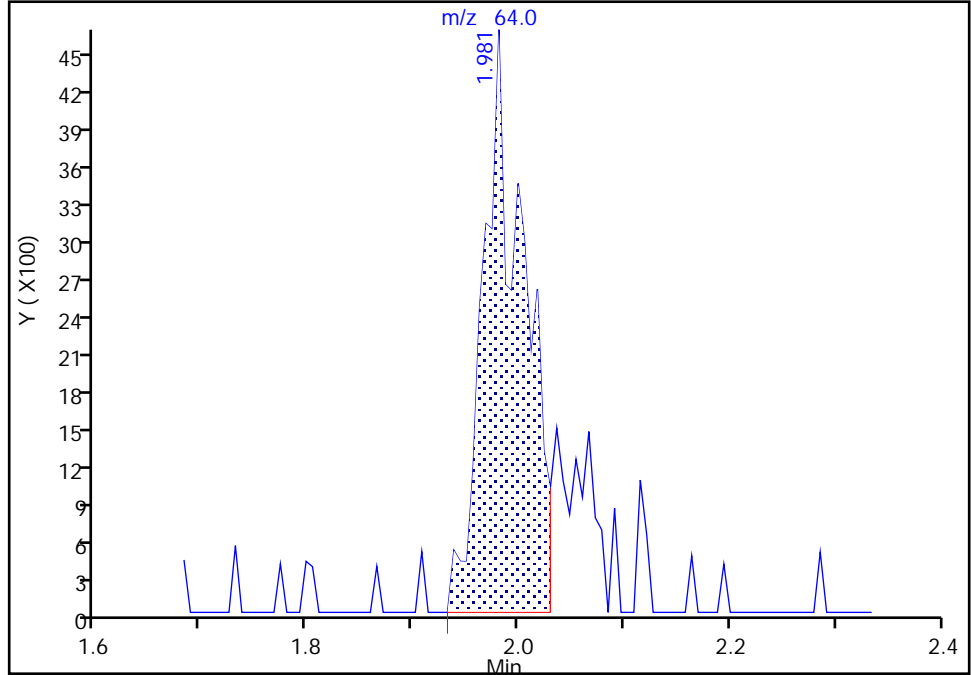
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

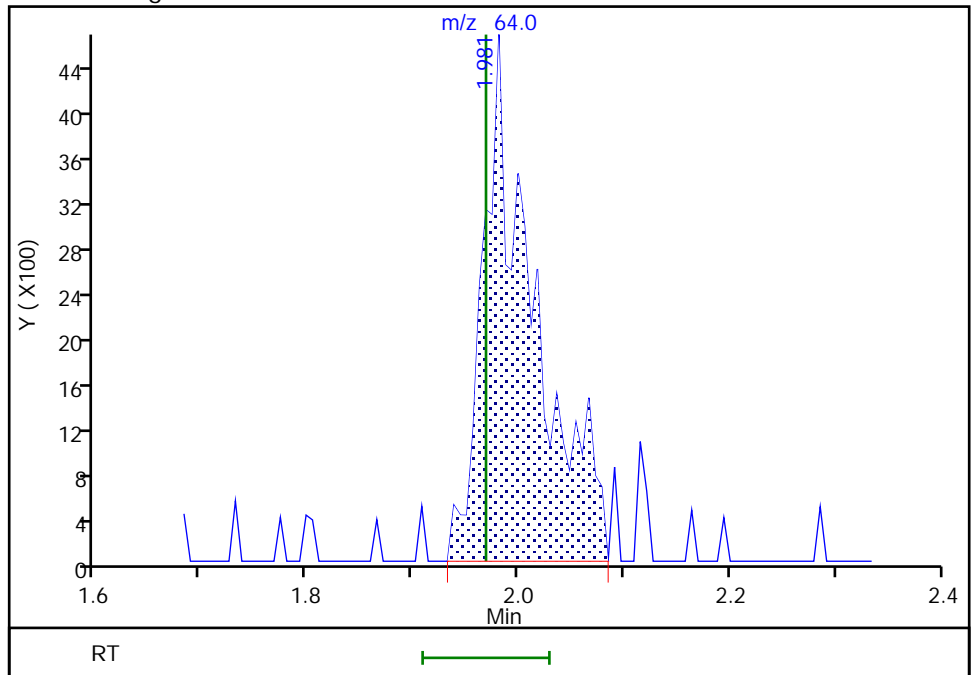
RT: 1.98
Area: 12491
Amount: 1.531681
Amount Units: ug/L

Processing Integration Results



RT: 1.98
Area: 15522
Amount: 1.857410
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:47:42
Audit Action: Manually Integrated

TestAmerica Buffalo

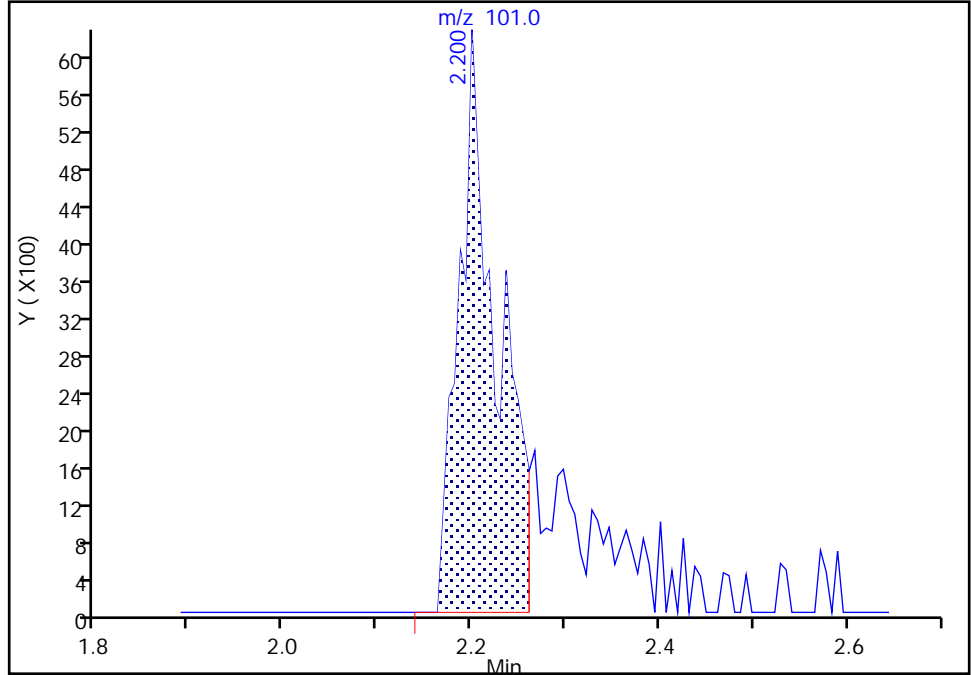
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

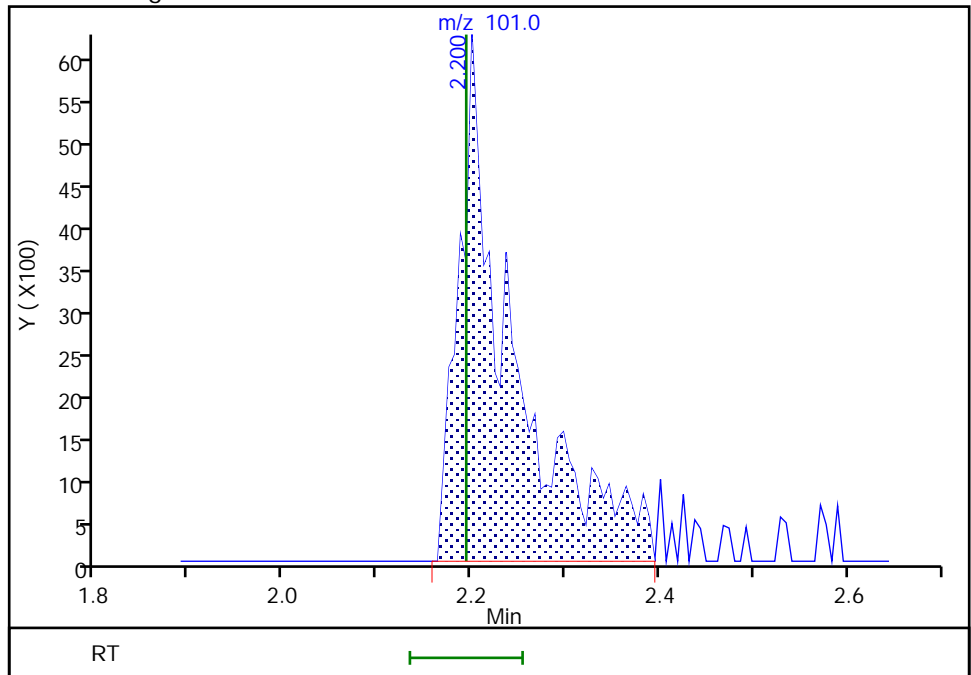
RT: 2.20
Area: 17555
Amount: 1.517755
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 24492
Amount: 1.872069
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:48:16
Audit Action: Manually Integrated

TestAmerica Buffalo

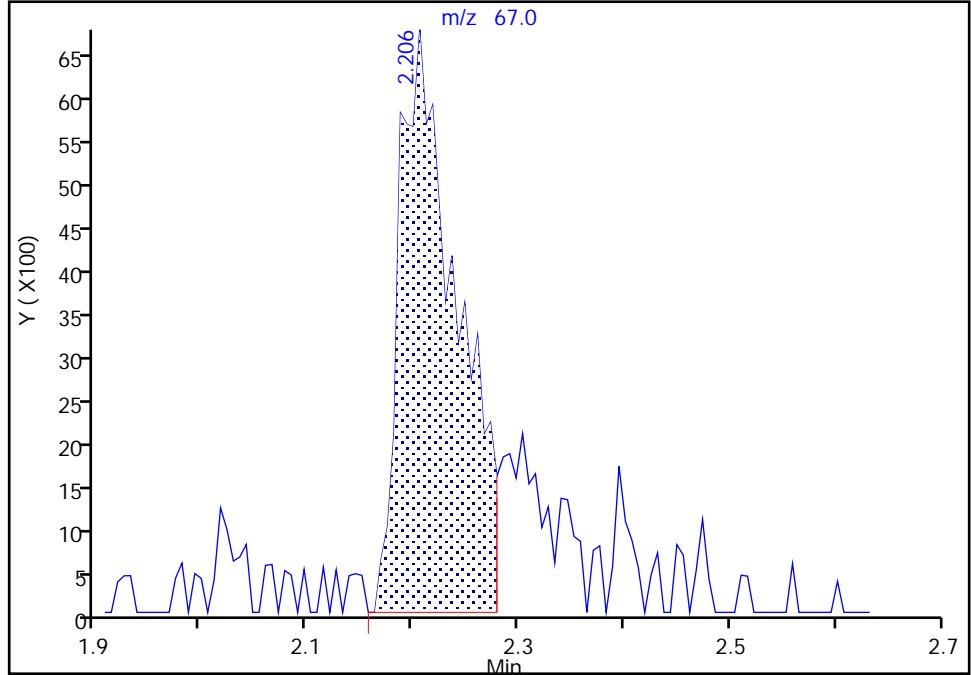
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

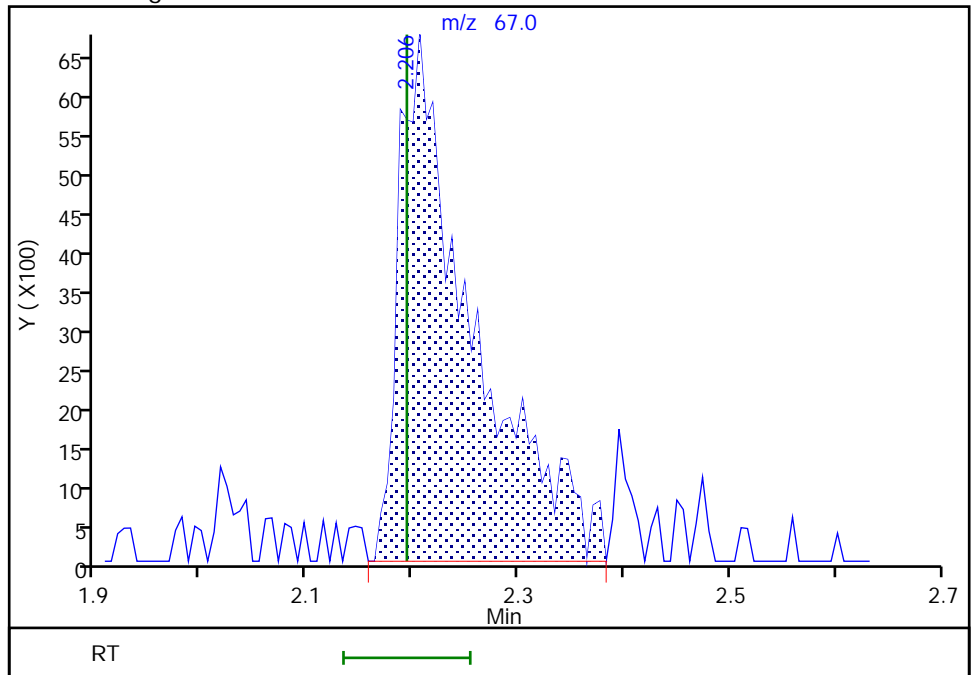
RT: 2.21
Area: 25443
Amount: 1.492939
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 32362
Amount: 1.767578
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:48:39
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

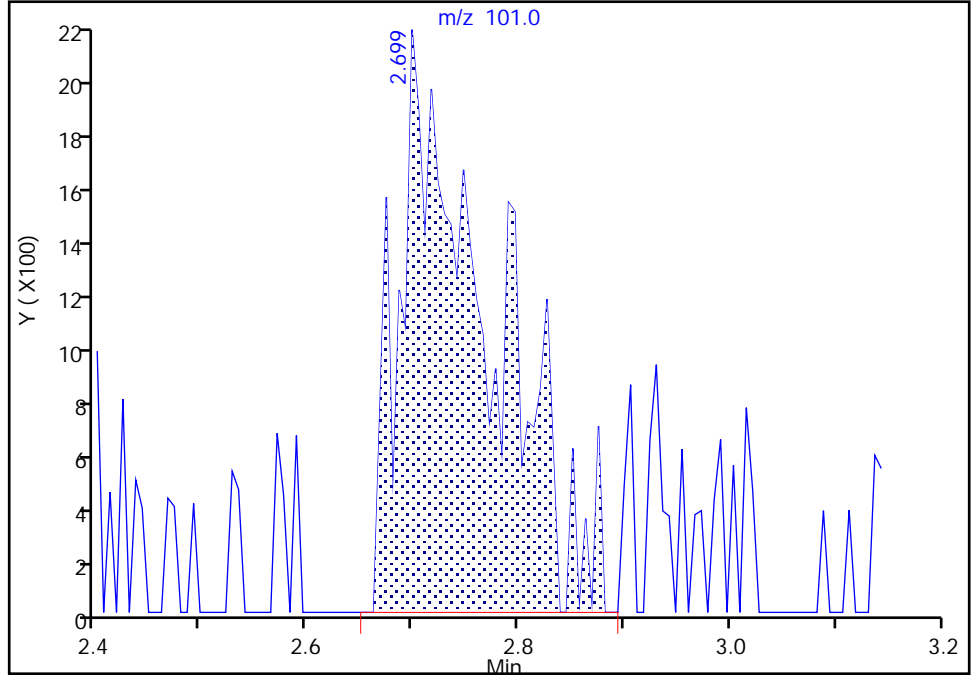
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

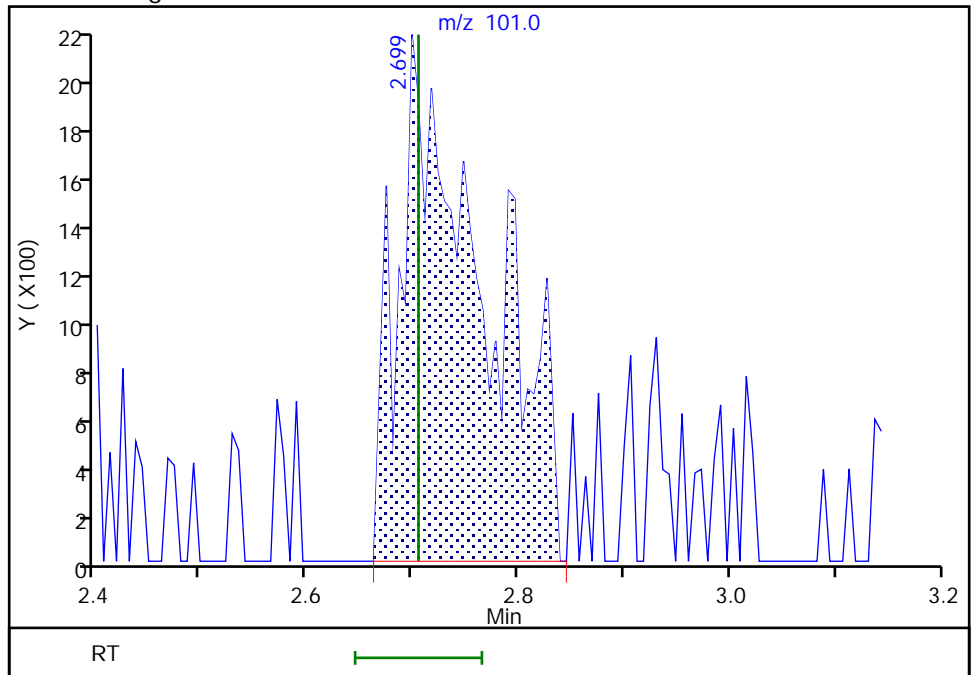
RT: 2.70
Area: 12735
Amount: 2.086698
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 12129
Amount: 1.875033
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

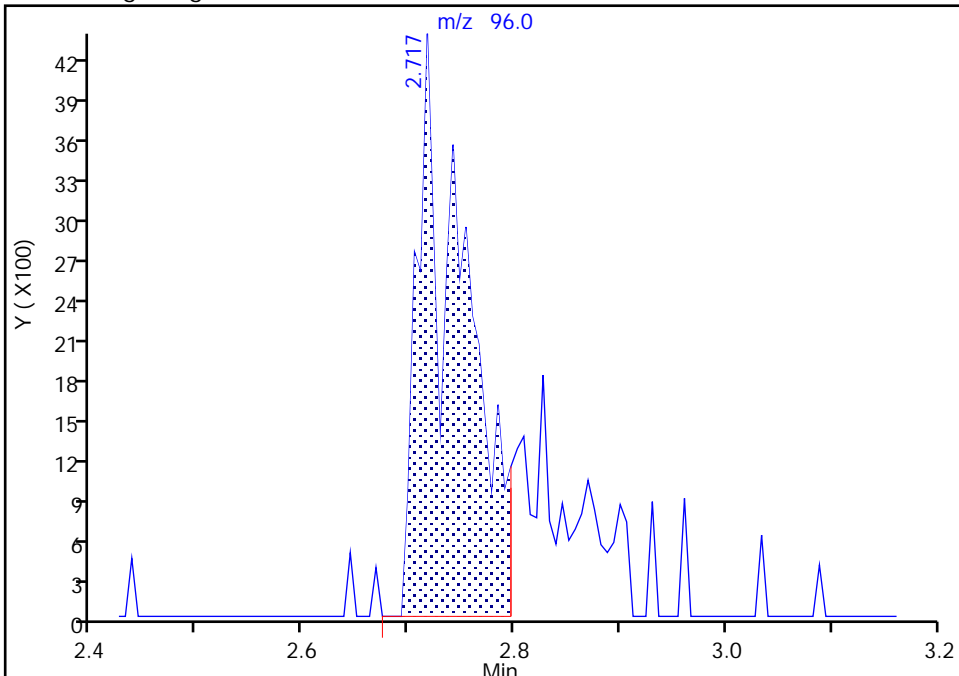
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

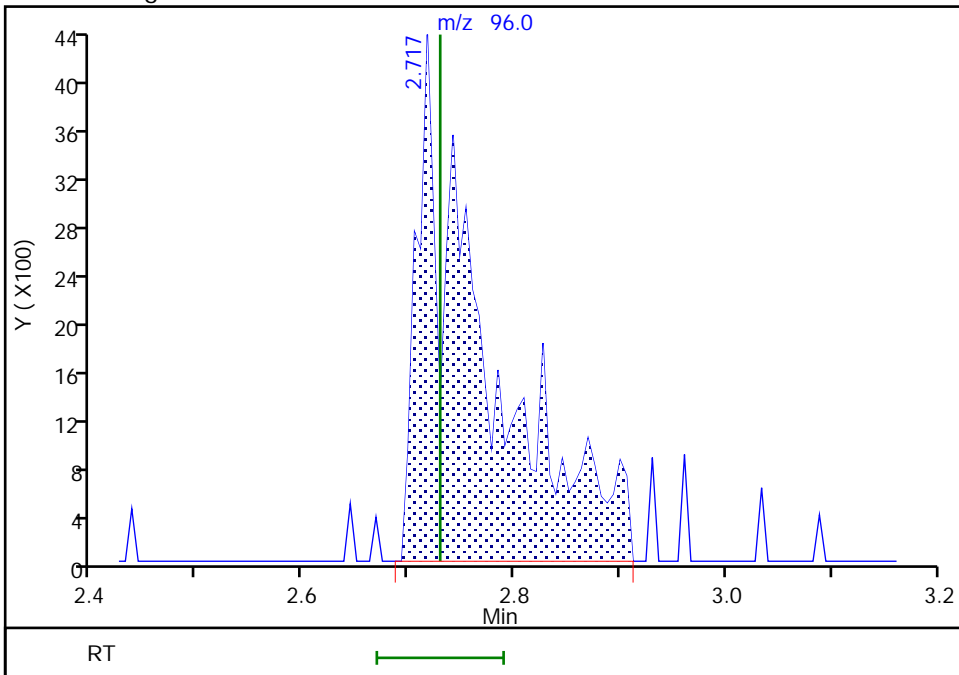
Processing Integration Results

RT: 2.72
Area: 13311
Amount: 1.727229
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 18776
Amount: 2.094349
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:16:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

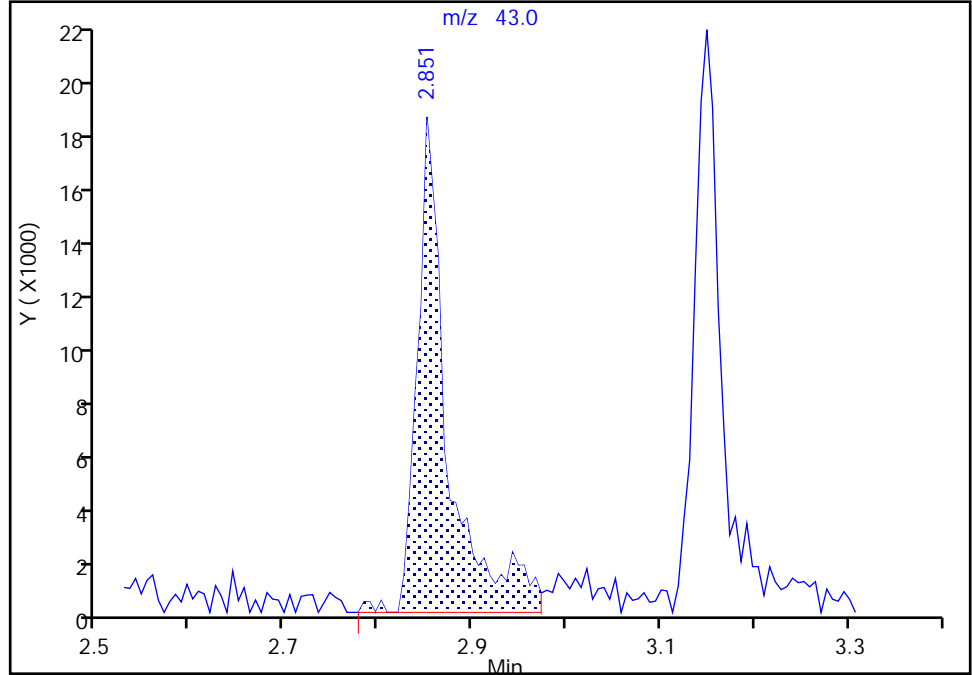
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

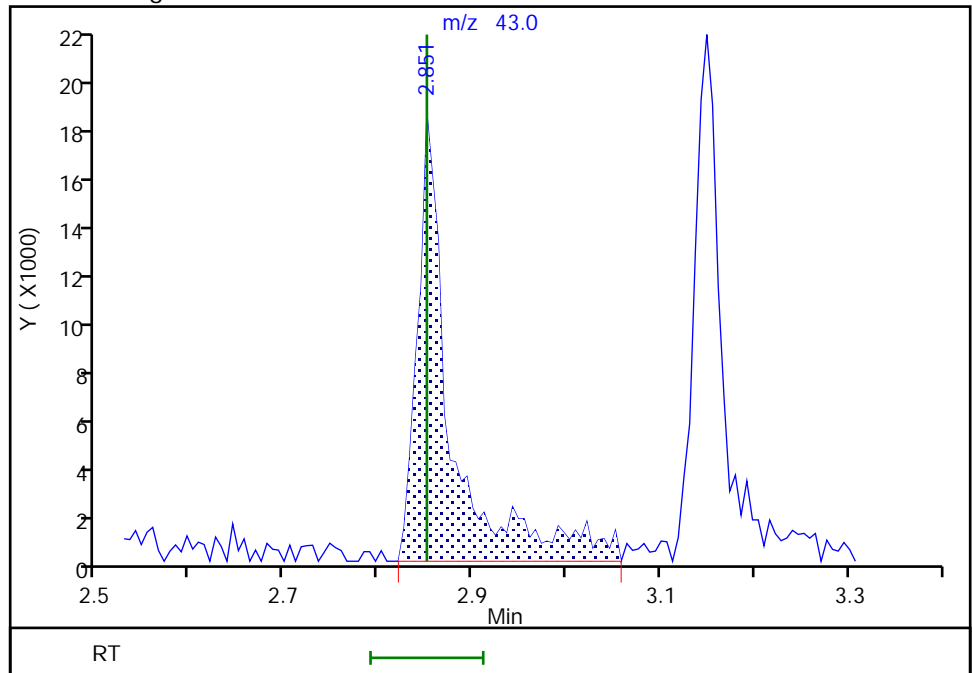
RT: 2.85
Area: 41648
Amount: 9.924223
Amount Units: ug/L

Processing Integration Results



RT: 2.85
Area: 45897
Amount: 11.753991
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:49:47
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

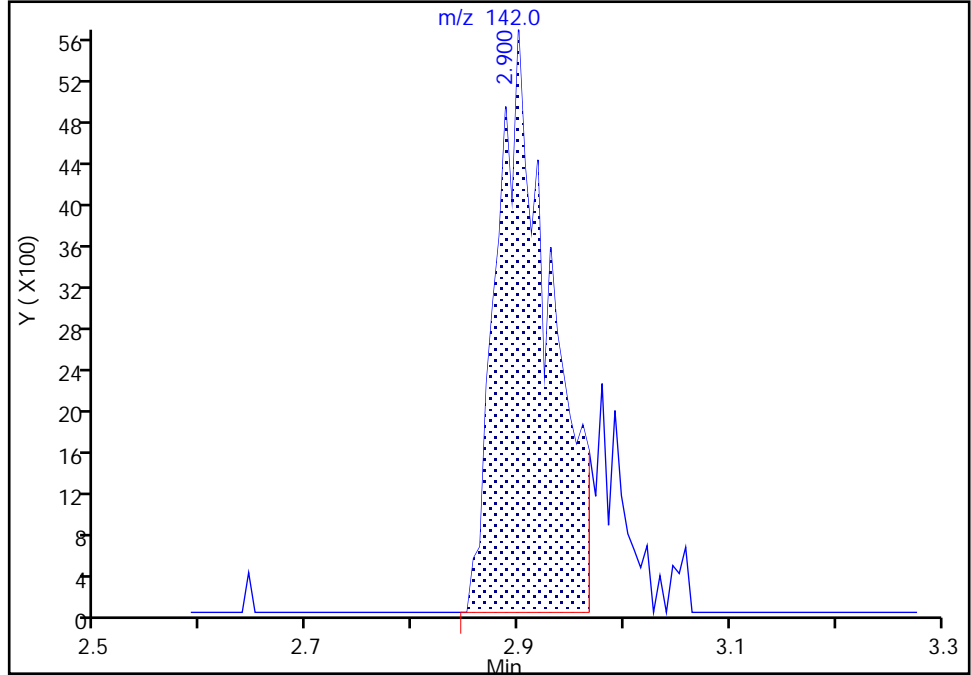
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

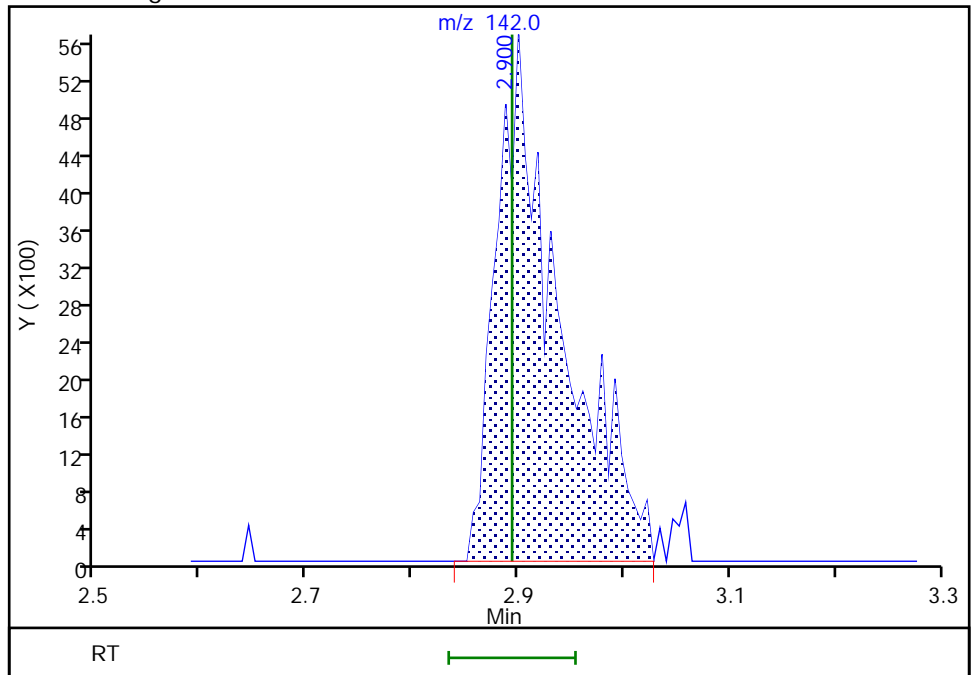
RT: 2.90
Area: 19972
Amount: 1.497511
Amount Units: ug/L

Processing Integration Results



RT: 2.90
Area: 23539
Amount: 1.795323
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:50:30
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

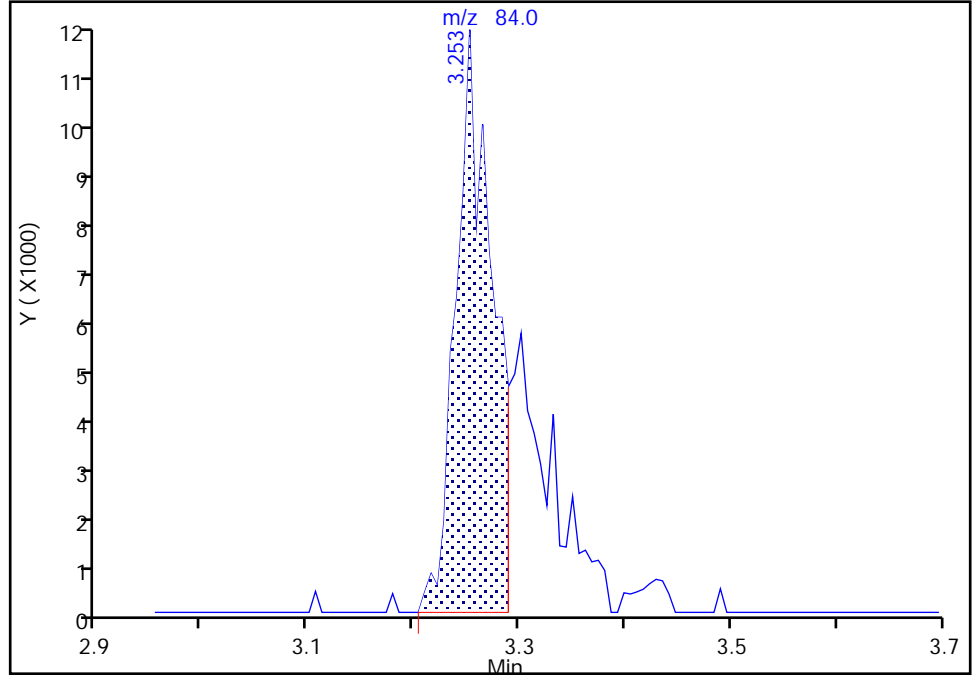
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

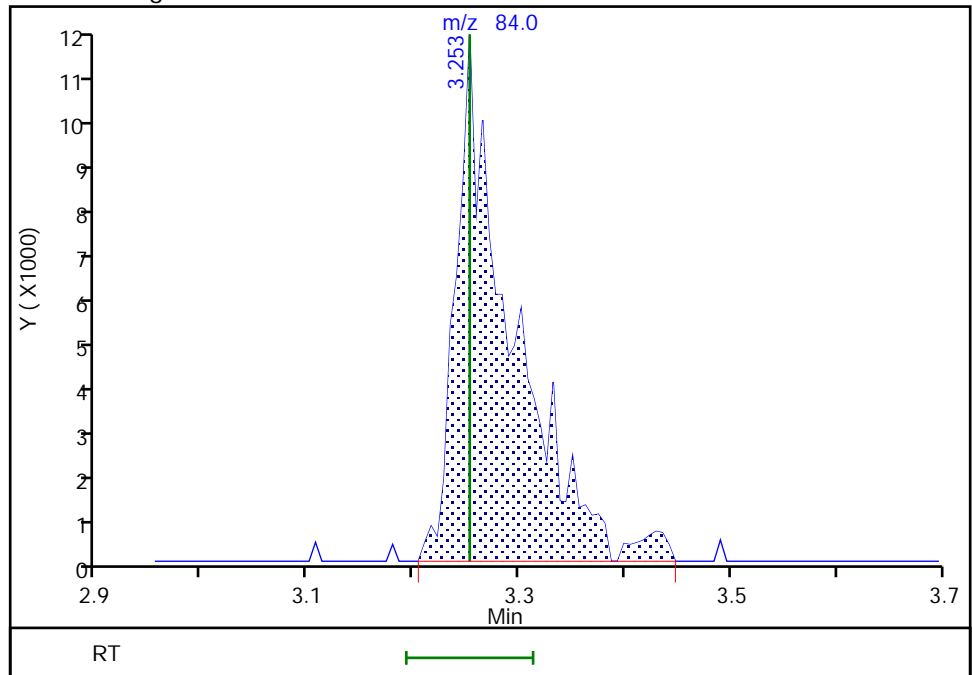
RT: 3.25
Area: 27629
Amount: 1.460418
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 42609
Amount: 2.057003
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:49:08
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

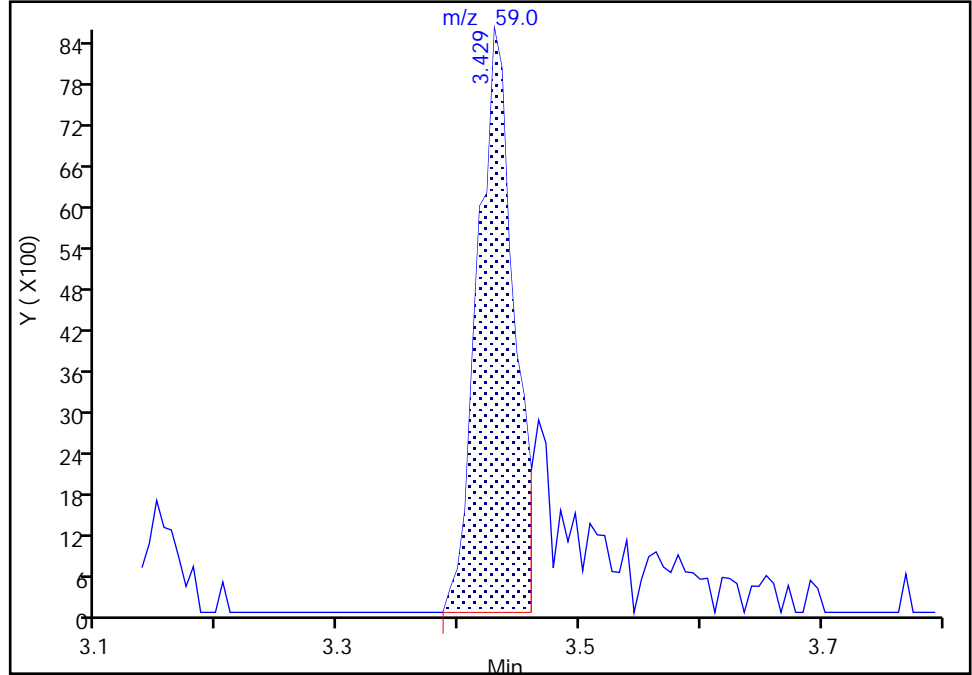
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

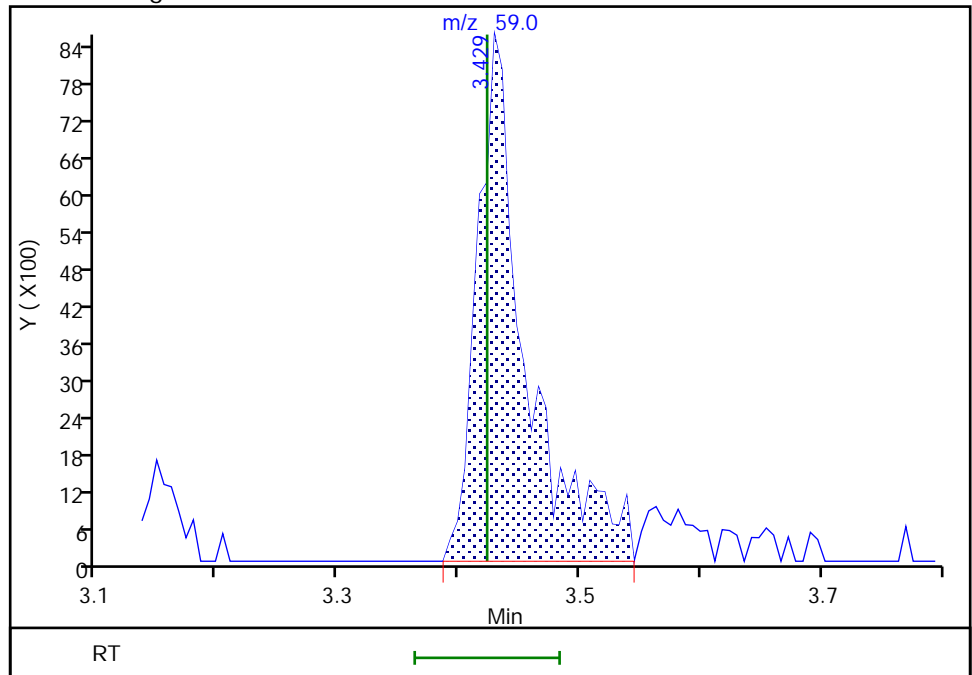
RT: 3.43
Area: 17955
Amount: 16.316635
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 23908
Amount: 18.070445
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:51:44
Audit Action: Manually Integrated

TestAmerica Buffalo

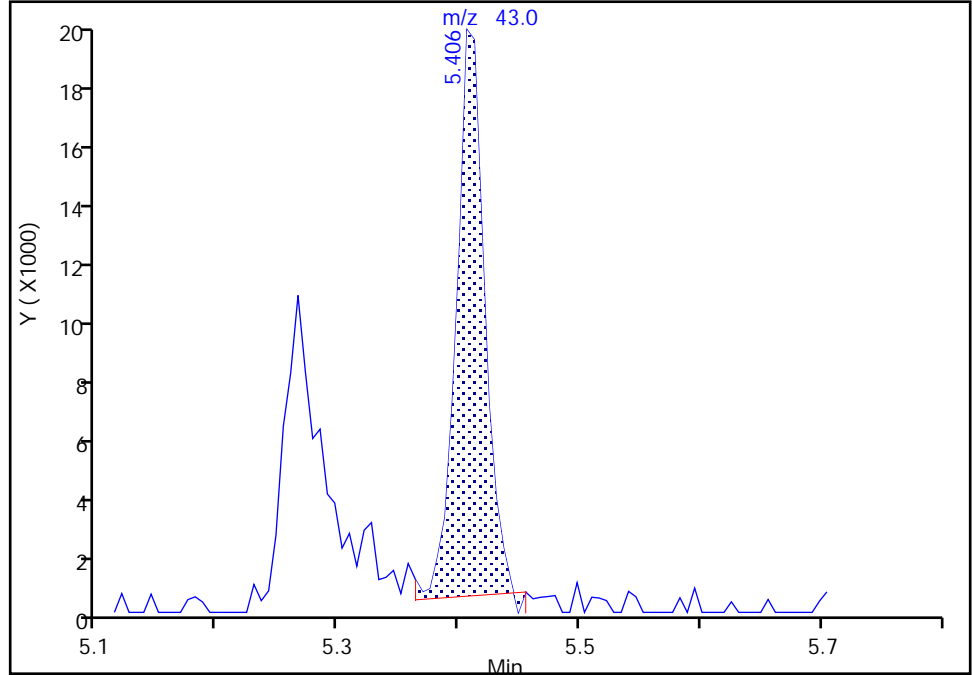
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

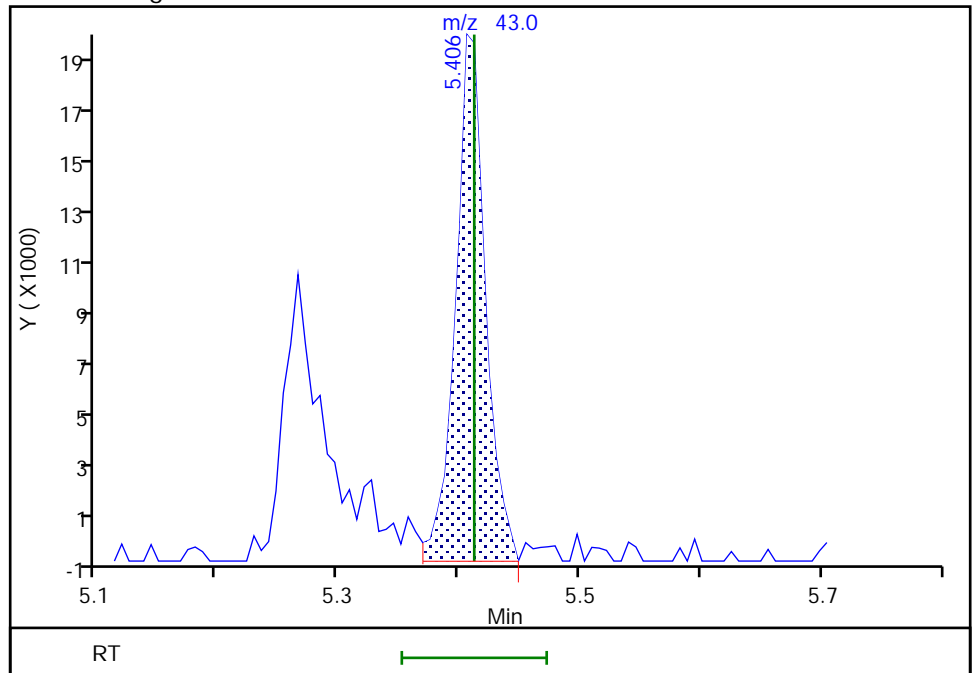
RT: 5.41
Area: 31472
Amount: 1.805730
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 34128
Amount: 1.939647
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:17:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

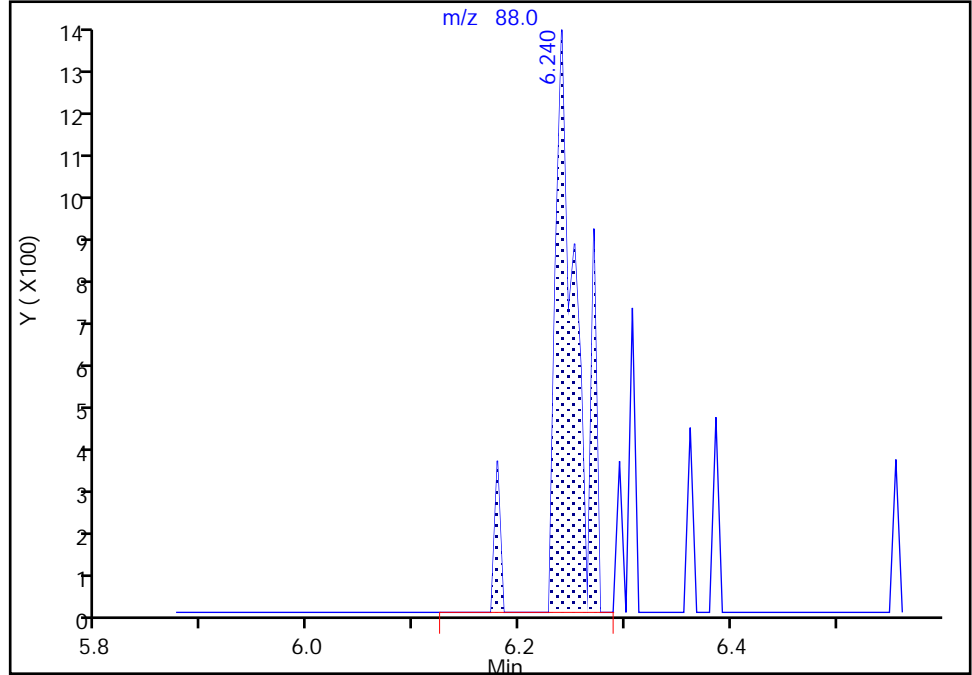
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

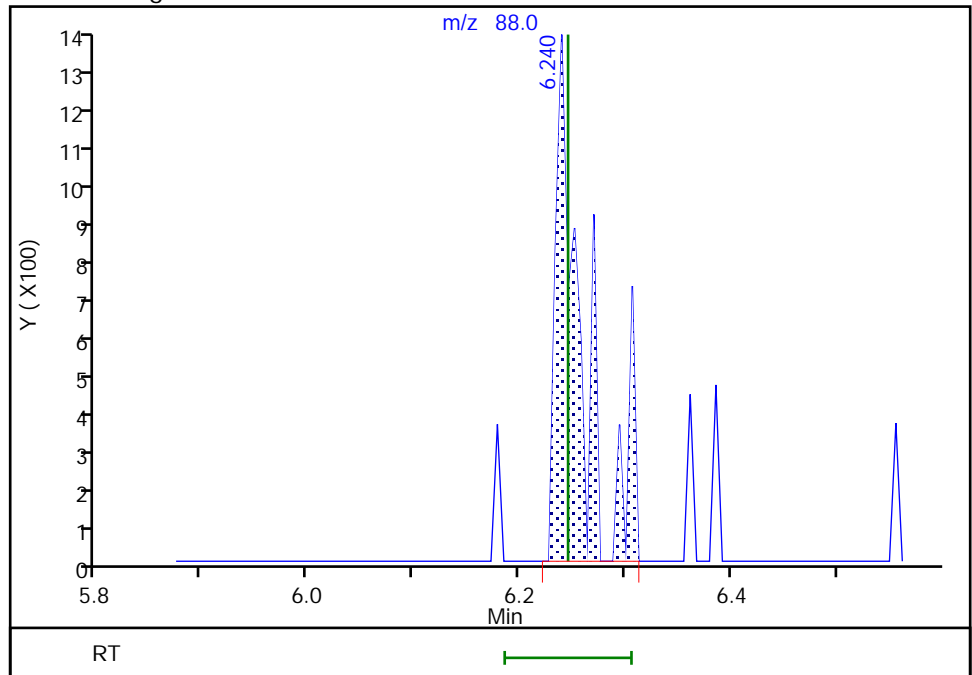
RT: 6.24
Area: 2010
Amount: 26.141337
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 2267
Amount: 38.583938
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:26:20
Audit Action: Manually Integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Jun-2018 15:01:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0072482-008
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:51 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 20:19:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	194919	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	86	401283	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	93	371613	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	62	236175	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	162701	25.0	26.6	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	974777	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	298183	25.0	24.8	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	84	57375	5.00	6.11	
12 Chloromethane	50	1.464	1.464	0.000	98	78570	5.00	5.27	
13 Vinyl chloride	62	1.543	1.549	-0.006	81	72004	5.00	5.43	
151 Butadiene	54	1.574	1.574	0.000	56	74679	5.00	5.40	
14 Bromomethane	94	1.884	1.872	0.012	81	37490	5.00	5.28	
15 Chloroethane	64	1.988	1.969	0.019	70	42938	5.00	5.35	
16 Dichlorofluoromethane	67	2.207	2.194	0.013	79	94040	5.00	5.35	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	68	74675	5.00	5.94	M
18 Ethyl ether	59	2.492	2.492	0.000	82	59556	5.00	5.33	
20 Acrolein	56	2.687	2.687	0.000	90	50983	25.0	23.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	39	42648	5.00	5.88	M
22 1,1-Dichloroethene	96	2.718	2.730	-0.012	96	49334	5.00	5.73	
23 Acetone	43	2.845	2.851	-0.006	92	94147	25.0	25.1	
25 Iodomethane	142	2.894	2.894	0.000	93	69957	5.00	5.56	
26 Carbon disulfide	76	2.918	2.918	0.000	88	152614	5.00	5.56	
28 3-Chloro-1-propene	41	3.089	3.089	0.001	86	90419	5.00	5.42	
27 Methyl acetate	43	3.143	3.143	0.000	96	103471	10.0	10.5	
30 Methylene Chloride	84	3.247	3.253	-0.006	87	75350	5.00	5.30	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	84	62295	50.0	49.0	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	90	166404	5.00	5.16	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	55688	5.00	5.65	
33 Acrylonitrile	53	3.539	3.539	0.000	99	254614	50.0	48.7	
35 Hexane	57	3.654	3.660	-0.006	82	108267	5.00	5.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	92	110345	5.00	5.32	
37 Vinyl acetate	43	3.953	3.952	0.001	97	249498	10.0	10.4	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	89	64910	5.00	5.64	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	75	61673	5.00	5.45	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	92	142709	25.0	24.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	91	30101	5.00	5.56	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	36094	10.0	9.12	
50 Chloroform	83	4.768	4.774	-0.006	92	98890	5.00	5.46	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	88	74012	5.00	5.48	
52 Cyclohexane	56	4.877	4.883	-0.006	89	95397	5.00	5.25	
55 Carbon tetrachloride	117	5.017	5.011	0.006	86	61607	5.00	5.45	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	89	71332	5.00	5.19	
57 Benzene	78	5.236	5.236	0.000	75	223580	5.00	5.41	
53 Isobutyl alcohol	43	5.267	5.266	0.001	92	61251	125.0	114.5	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	70	87871	5.00	5.26	
59 n-Heptane	43	5.413	5.412	0.001	86	95852	5.00	5.67	
62 Trichloroethene	95	5.851	5.850	0.001	93	60191	5.00	5.64	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	95854	5.00	5.90	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	94	65633	5.00	5.26	
67 Dibromomethane	93	6.240	6.234	0.006	86	33662	5.00	5.17	
66 1,4-Dioxane	88	6.240	6.246	-0.006	26	6969	100.0	89.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	95	68190	5.00	5.44	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	87	42348	5.00	5.09	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	87	84252	5.00	5.34	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	326171	25.0	25.5	
74 Toluene	92	7.092	7.085	0.007	80	140875	5.00	5.28	
77 trans-1,3-Dichloropropene	75	7.378	7.377	0.001	87	70774	5.00	4.82	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	74867	5.00	5.20	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	91	41694	5.00	5.19	
81 Tetrachloroethene	166	7.621	7.615	0.006	81	58888	5.00	5.23	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	93	81753	5.00	4.82	
80 2-Hexanone	43	7.791	7.791	0.000	79	246316	25.0	26.1	
83 Chlorodibromomethane	129	7.962	7.961	0.001	82	45191	5.00	4.94	
84 Ethylene Dibromide	107	8.071	8.071	0.000	90	52152	5.00	5.15	
87 Chlorobenzene	112	8.540	8.539	0.001	90	153908	5.00	5.27	
88 Ethylbenzene	91	8.631	8.631	0.000	99	260118	5.00	5.41	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	54	46444	5.00	4.91	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	101199	5.00	5.17	
91 o-Xylene	106	9.178	9.178	0.000	98	97848	5.00	5.27	
92 Styrene	104	9.209	9.209	0.000	93	168072	5.00	5.28	
95 Bromoform	173	9.464	9.464	0.000	91	26624	5.00	4.56	
94 Isopropylbenzene	105	9.562	9.561	0.001	94	261022	5.00	5.57	
101 Bromobenzene	156	9.908	9.908	0.000	93	62196	5.00	5.25	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	81	66963	5.00	5.26	
99 N-Propylbenzene	91	9.981	9.987	-0.006	98	304106	5.00	5.60	
100 1,2,3-Trichloropropane	110	10.000	9.999	0.001	67	22292	5.00	5.32	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	65	18263	5.00	4.51	
103 2-Chlorotoluene	126	10.091	10.091	0.000	95	60025	5.00	5.13	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	83	214731	5.00	5.28	
105 4-Chlorotoluene	126	10.206	10.200	0.006	93	62670	5.00	5.23	
106 tert-Butylbenzene	134	10.474	10.474	0.000	90	48709	5.00	5.62	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	75	223814	5.00	5.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	90	261311	5.00	5.36	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	231080	5.00	5.51	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	119848	5.00	5.20	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	75	127844	5.00	5.44	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	208379	5.00	5.51	
116 1,2-Dichlorobenzene	146	11.259	11.265	-0.006	90	123068	5.00	5.43	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	47	11203	5.00	4.54	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	91	80426	5.00	4.99	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	89	39788	5.00	5.16	
121 Naphthalene	128	12.877	12.877	0.000	97	221088	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	79276	5.00	5.33	
S 124 Xylenes, Total	1				0			10.4	
S 126 1,3-Dichloropropene, Total	1				0			10.2	
S 123 Total BTEX	1				0			26.5	
S 125 1,2-Dichloroethene, Total	1				0			11.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 5.00

Units: uL

GAS CORP mix_00287

Amount Added: 5.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D

Injection Date: 20-Jun-2018 15:01:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 3

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

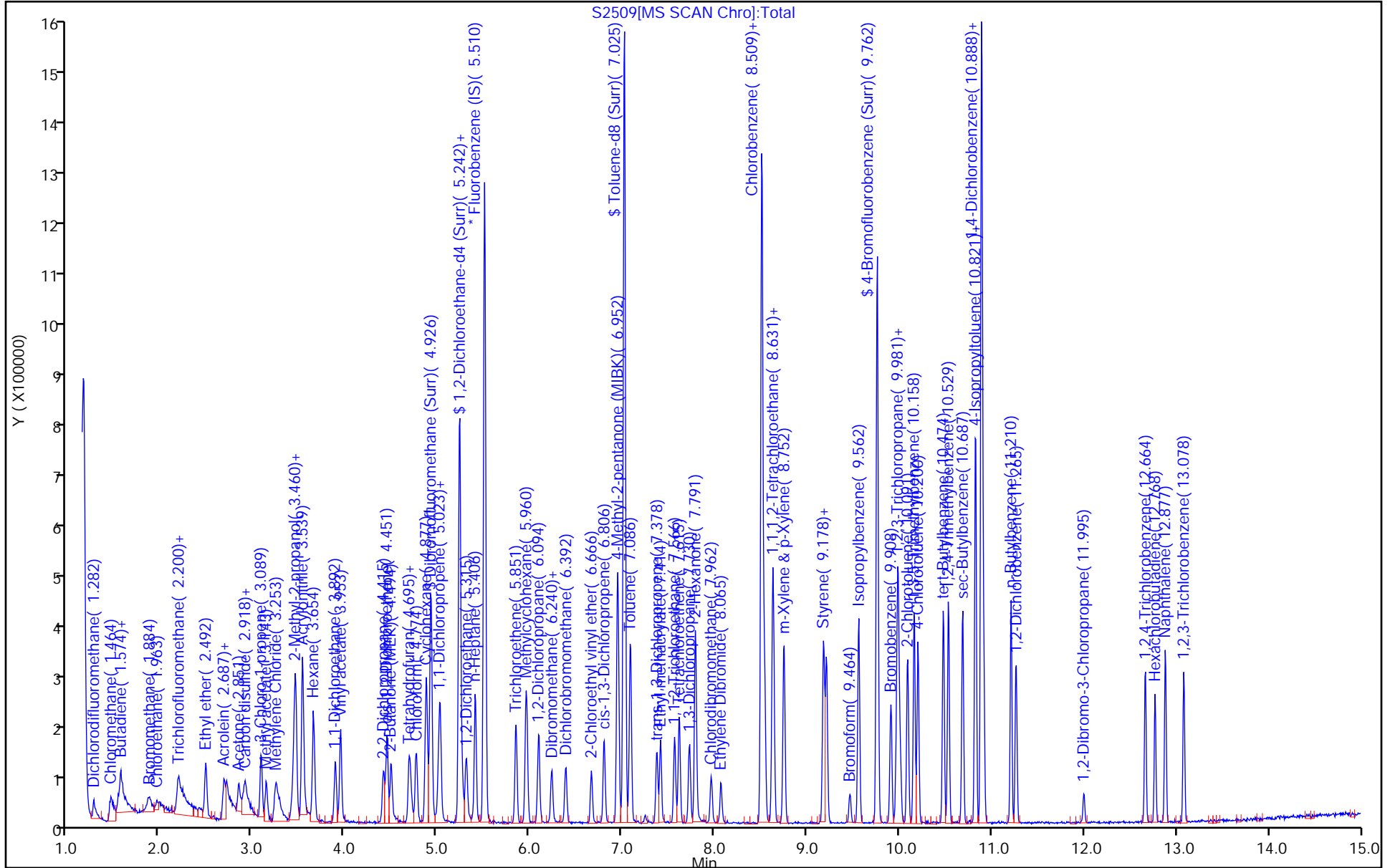
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

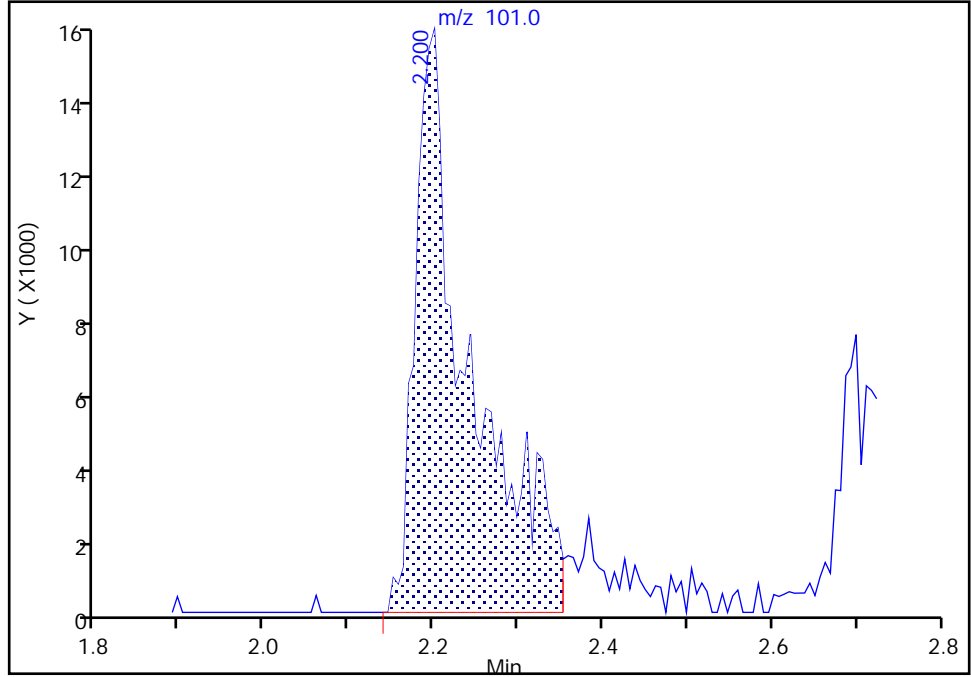
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

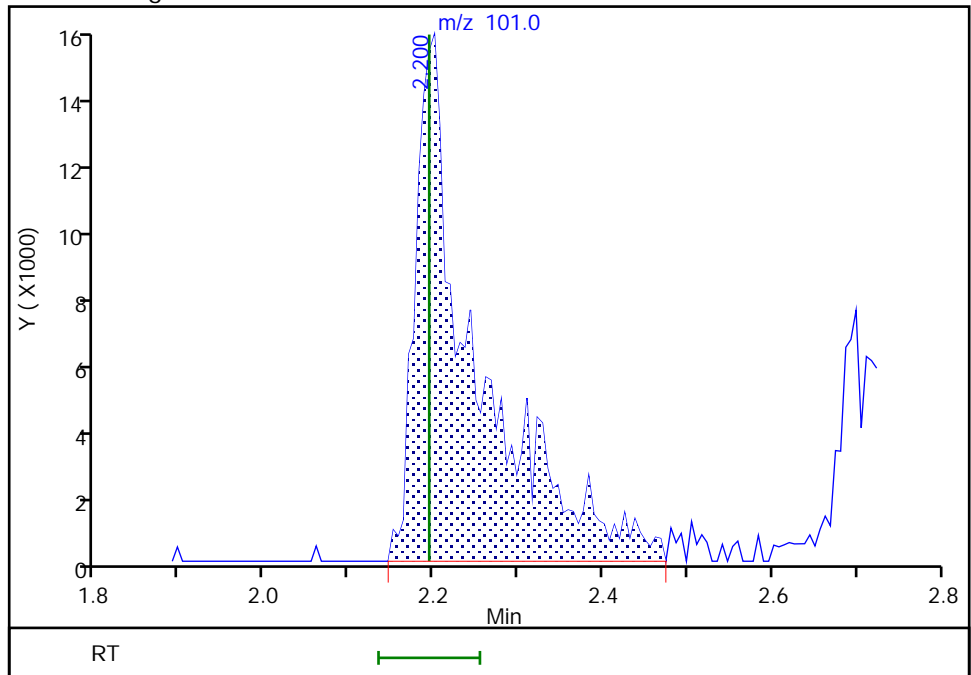
RT: 2.20
Area: 67404
Amount: 5.262149
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 74675
Amount: 5.943261
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:53:53
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

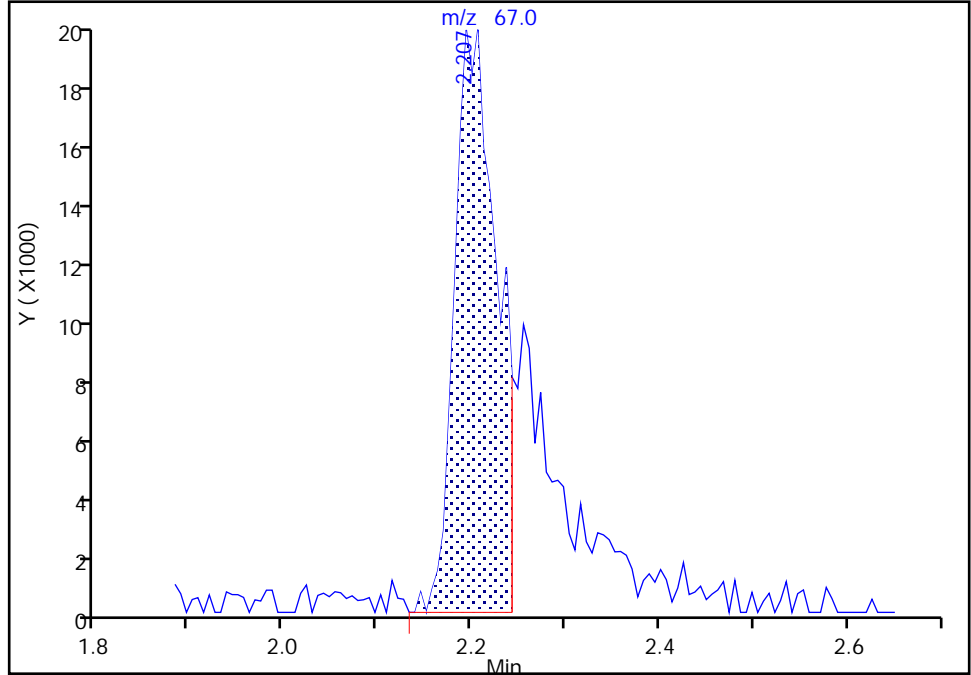
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

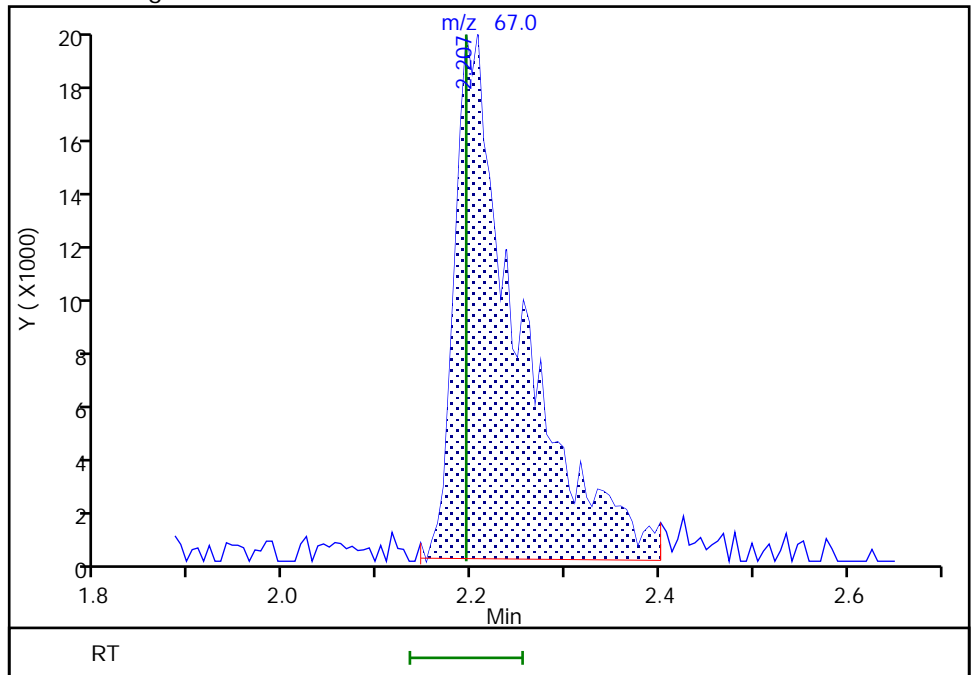
RT: 2.21
Area: 62001
Amount: 3.732710
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 94040
Amount: 5.348202
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:53:24
Audit Action: Manually Integrated

TestAmerica Buffalo

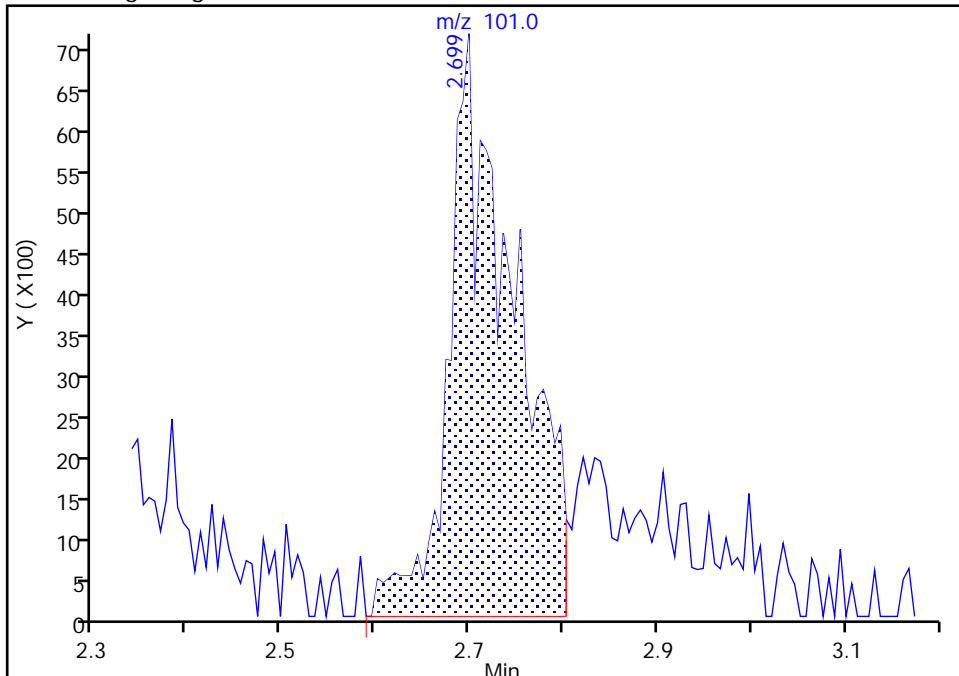
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

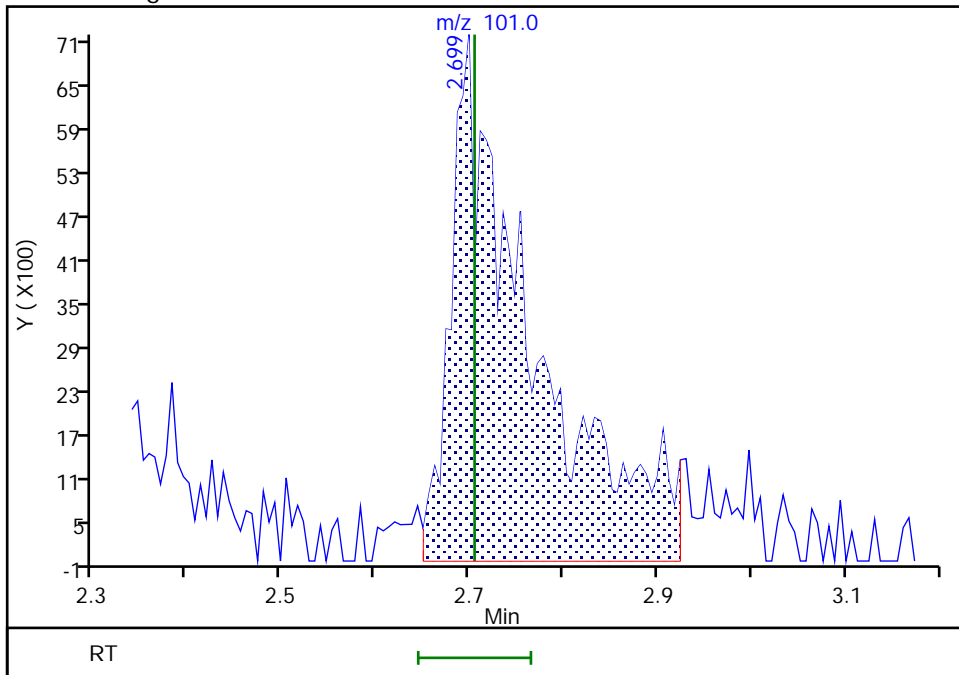
RT: 2.70
Area: 34329
Amount: 5.577335
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 42648
Amount: 5.877613
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:20:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

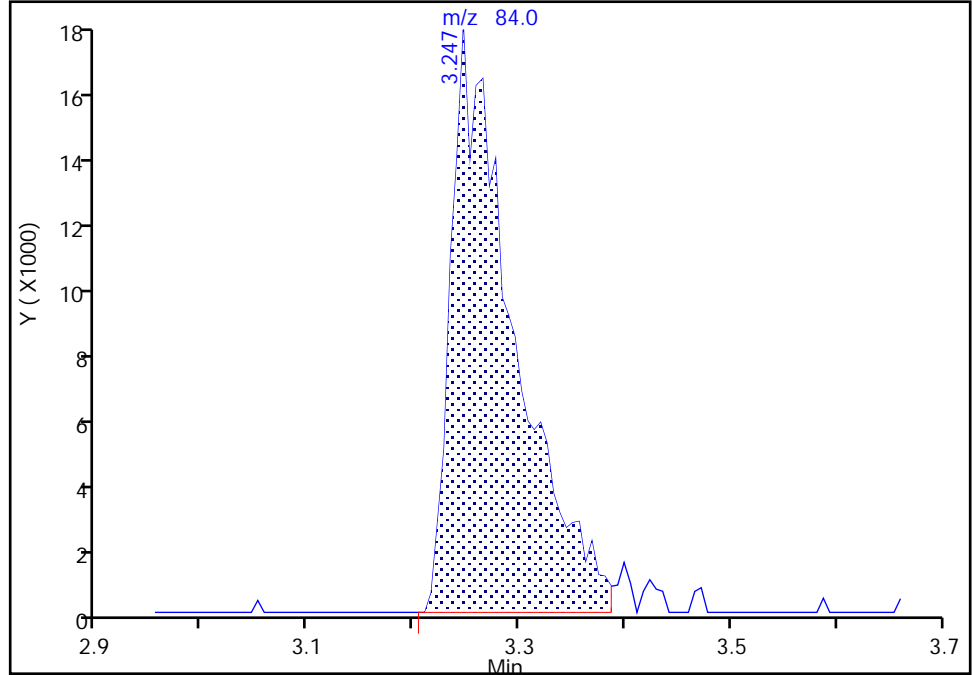
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

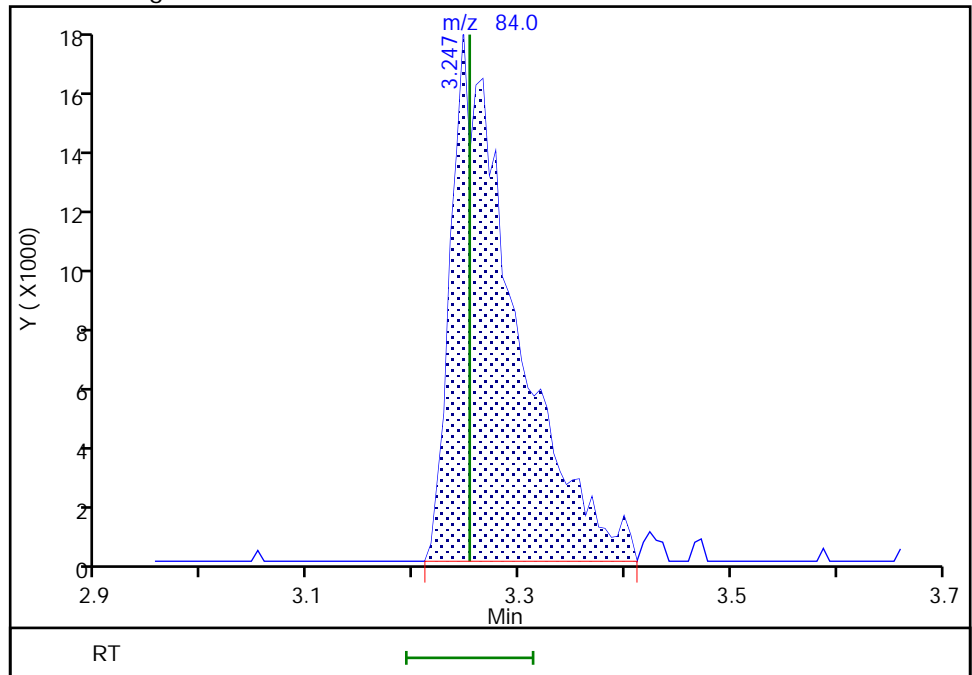
RT: 3.25
Area: 74156
Amount: 5.210539
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 75350
Amount: 5.299668
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:43:48
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

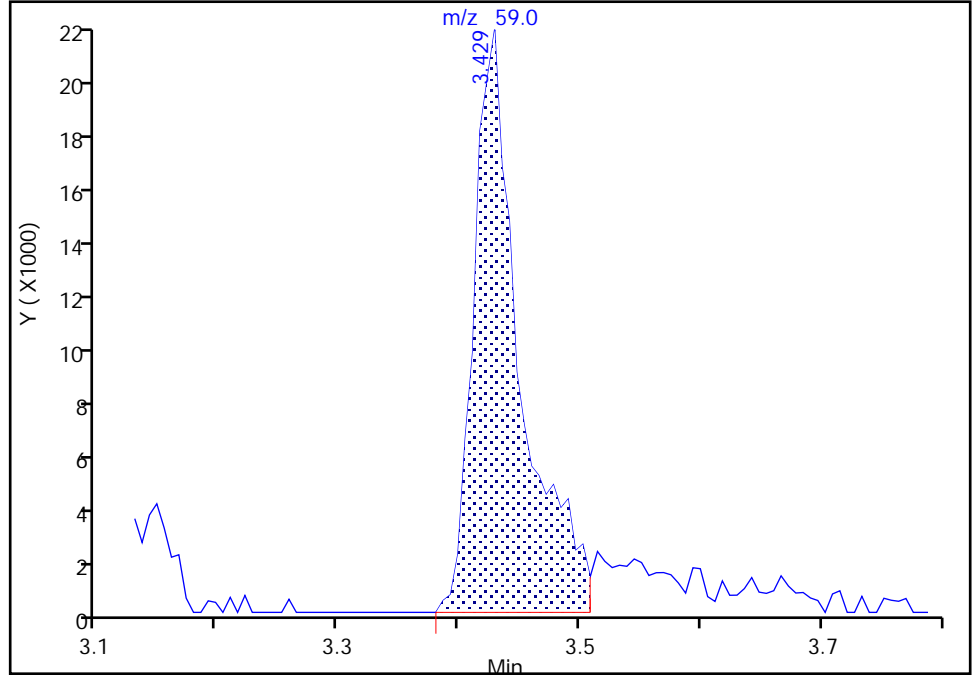
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

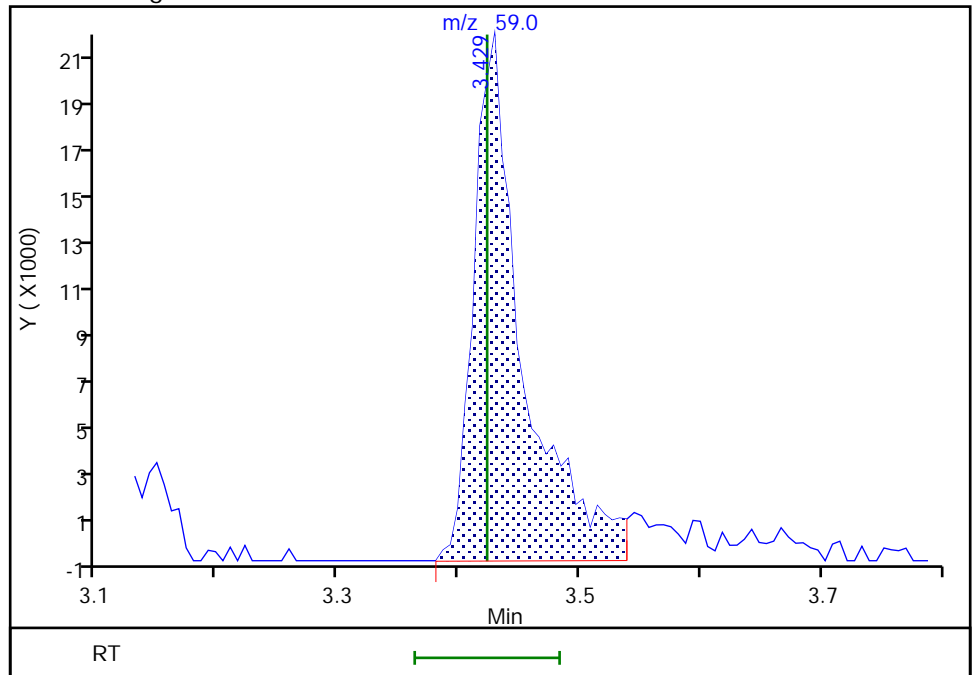
RT: 3.43
Area: 58800
Amount: 52.791577
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 62295
Amount: 49.026488
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:51:26
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

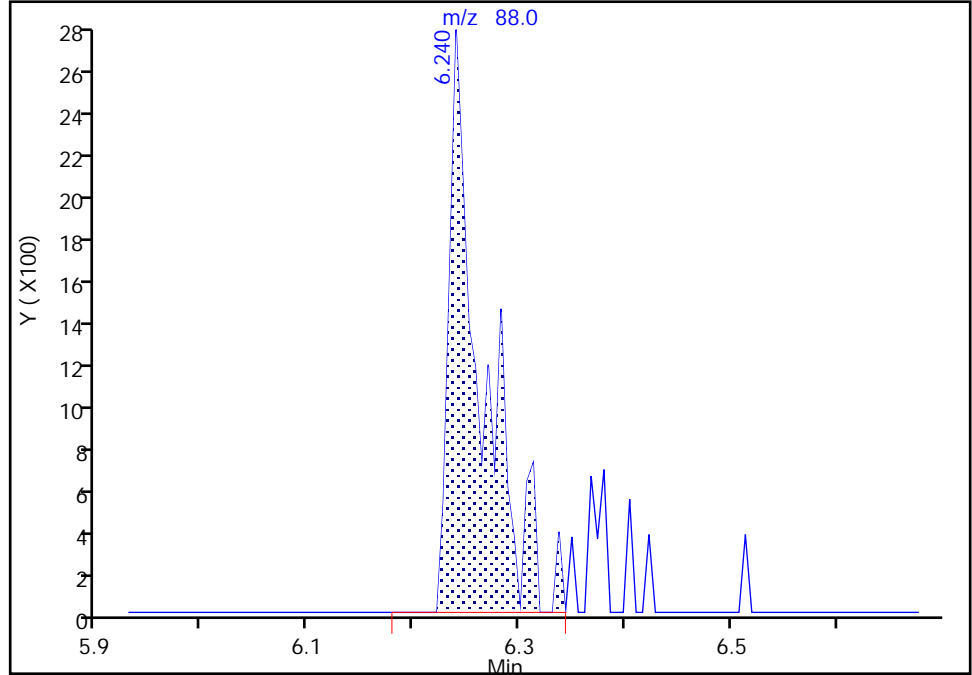
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

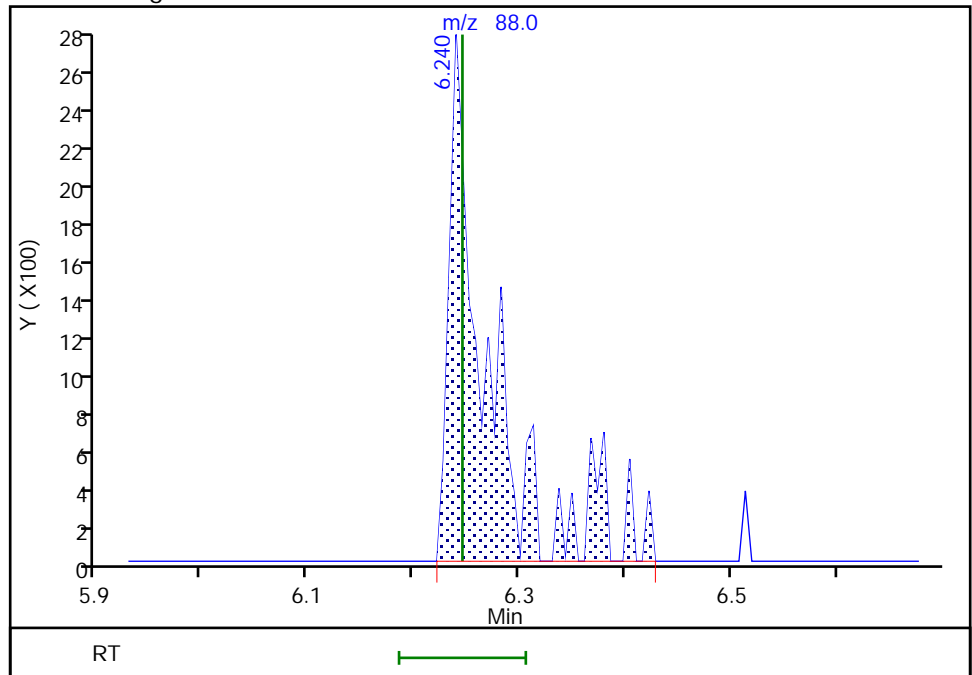
RT: 6.24
Area: 5894
Amount: 69.560976
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 6969
Amount: 89.712458
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:21:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-Jun-2018 15:24:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0072482-009
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:56 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:35:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	204294	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.515	8.509	0.006	86	404541	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	96	369559	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	237971	25.0	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	153221	25.0	23.9	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	981631	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	292377	25.0	24.2	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	95	100661	10.0	10.2	
12 Chloromethane	50	1.470	1.464	0.006	88	158120	10.0	10.1	
13 Vinyl chloride	62	1.549	1.549	0.000	95	135746	10.0	9.77	
151 Butadiene	54	1.580	1.574	0.006	84	141422	10.0	9.76	
14 Bromomethane	94	1.872	1.872	0.000	79	70373	10.0	9.45	
15 Chloroethane	64	1.975	1.969	0.006	82	79988	10.0	9.51	
17 Trichlorofluoromethane	101	2.206	2.194	0.012	72	122840	10.0	9.33	
16 Dichlorofluoromethane	67	2.200	2.194	0.006	94	161069	10.0	8.74	
18 Ethyl ether	59	2.498	2.492	0.006	85	119421	10.0	10.2	
20 Acrolein	56	2.687	2.687	0.000	89	106044	50.0	47.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.705	0.006	54	83709	10.0	10.7	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	90	96639	10.0	10.7	M
23 Acetone	43	2.851	2.851	0.000	97	172269	50.0	43.8	
25 Iodomethane	142	2.888	2.894	-0.006	96	139498	10.0	10.6	
26 Carbon disulfide	76	2.918	2.918	0.000	96	285284	10.0	9.92	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	86	155269	10.0	8.87	
27 Methyl acetate	43	3.149	3.143	0.006	95	190812	20.0	18.5	M
30 Methylene Chloride	84	3.253	3.253	0.000	94	127431	10.0	9.65	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	92	137981	100.0	103.6	M
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	330882	10.0	9.78	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	82	105184	10.0	10.2	
33 Acrylonitrile	53	3.539	3.539	0.000	100	554059	100.0	101.0	
35 Hexane	57	3.660	3.660	0.000	84	187621	10.0	9.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	97	221389	10.0	10.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	522220	20.0	20.8	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	117878	10.0	9.78	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	79	125542	10.0	10.6	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	291158	50.0	48.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	94	56519	10.0	9.97	
49 Tetrahydrofuran	42	4.713	4.713	0.000	85	78819	20.0	19.0	
50 Chloroform	83	4.774	4.774	0.000	93	185827	10.0	9.79	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	88	136975	10.0	9.68	
52 Cyclohexane	56	4.877	4.883	-0.006	89	192312	10.0	10.1	M
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	116898	10.0	9.86	
54 1,1-Dichloropropene	75	5.035	5.029	0.006	95	138232	10.0	9.59	
57 Benzene	78	5.242	5.236	0.006	92	434302	10.0	10.0	
53 Isobutyl alcohol	43	5.272	5.266	0.006	93	139911	250.0	249.6	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	76	175124	10.0	10.0	
59 n-Heptane	43	5.412	5.412	0.000	89	170684	10.0	9.64	
62 Trichloroethene	95	5.850	5.850	0.000	95	111214	10.0	9.95	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	172282	10.0	10.1	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	96	133728	10.0	10.2	
67 Dibromomethane	93	6.234	6.234	0.000	92	73081	10.0	10.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	11	18780	200.0	217.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	96	133887	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	86	88719	10.0	10.2	
72 cis-1,3-Dichloropropene	75	6.799	6.806	-0.007	88	174306	10.0	10.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	670794	50.0	51.9	
74 Toluene	92	7.091	7.085	0.006	88	273964	10.0	10.2	
77 trans-1,3-Dichloropropene	75	7.371	7.377	-0.006	96	157325	10.0	10.6	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	153587	10.0	10.6	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	90	81284	10.0	10.0	
81 Tetrachloroethene	166	7.621	7.615	0.006	75	114249	10.0	10.1	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	92	178659	10.0	10.5	
80 2-Hexanone	43	7.791	7.791	0.000	91	493778	50.0	51.9	
83 Chlorodibromomethane	129	7.961	7.961	0.000	86	97396	10.0	10.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	104411	10.0	10.2	
87 Chlorobenzene	112	8.539	8.539	0.000	92	300247	10.0	10.2	
88 Ethylbenzene	91	8.631	8.631	0.000	99	505219	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	56	101180	10.0	10.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	193403	10.0	9.81	
91 o-Xylene	106	9.178	9.178	0.000	97	196385	10.0	10.5	
92 Styrene	104	9.215	9.209	0.006	93	331254	10.0	10.3	
95 Bromoform	173	9.464	9.464	0.000	93	60675	10.0	10.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	487020	10.0	10.5	
101 Bromobenzene	156	9.908	9.908	0.000	95	123511	10.0	10.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	73	132068	10.0	10.4	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	572209	10.0	10.6	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	44716	10.0	10.7	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	75	40802	10.0	9.41	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	115644	10.0	9.95	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	95	432135	10.0	10.7	
105 4-Chlorotoluene	126	10.200	10.200	0.000	81	123635	10.0	10.4	
106 tert-Butylbenzene	134	10.474	10.474	0.000	91	90461	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	54	441006	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	506385	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	236904	10.0	10.3	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	450095	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	242101	10.0	10.4	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	394458	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	241629	10.0	10.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	69	24435	10.0	9.95	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	165528	10.0	10.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	92	77538	10.0	10.1	
121 Naphthalene	128	12.877	12.877	0.000	97	468207	10.0	10.7	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	161462	10.0	10.9	
S 123 Total BTEX	1				0			50.9	
S 125 1,2-Dichloroethene, Total	1				0			20.8	
S 124 Xylenes, Total	1				0			20.3	
S 126 1,3-Dichloropropene, Total	1				0			21.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 5.00

Units: uL

GAS CORP mix_00287

Amount Added: 5.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D

Injection Date: 20-Jun-2018 15:24:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 4

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

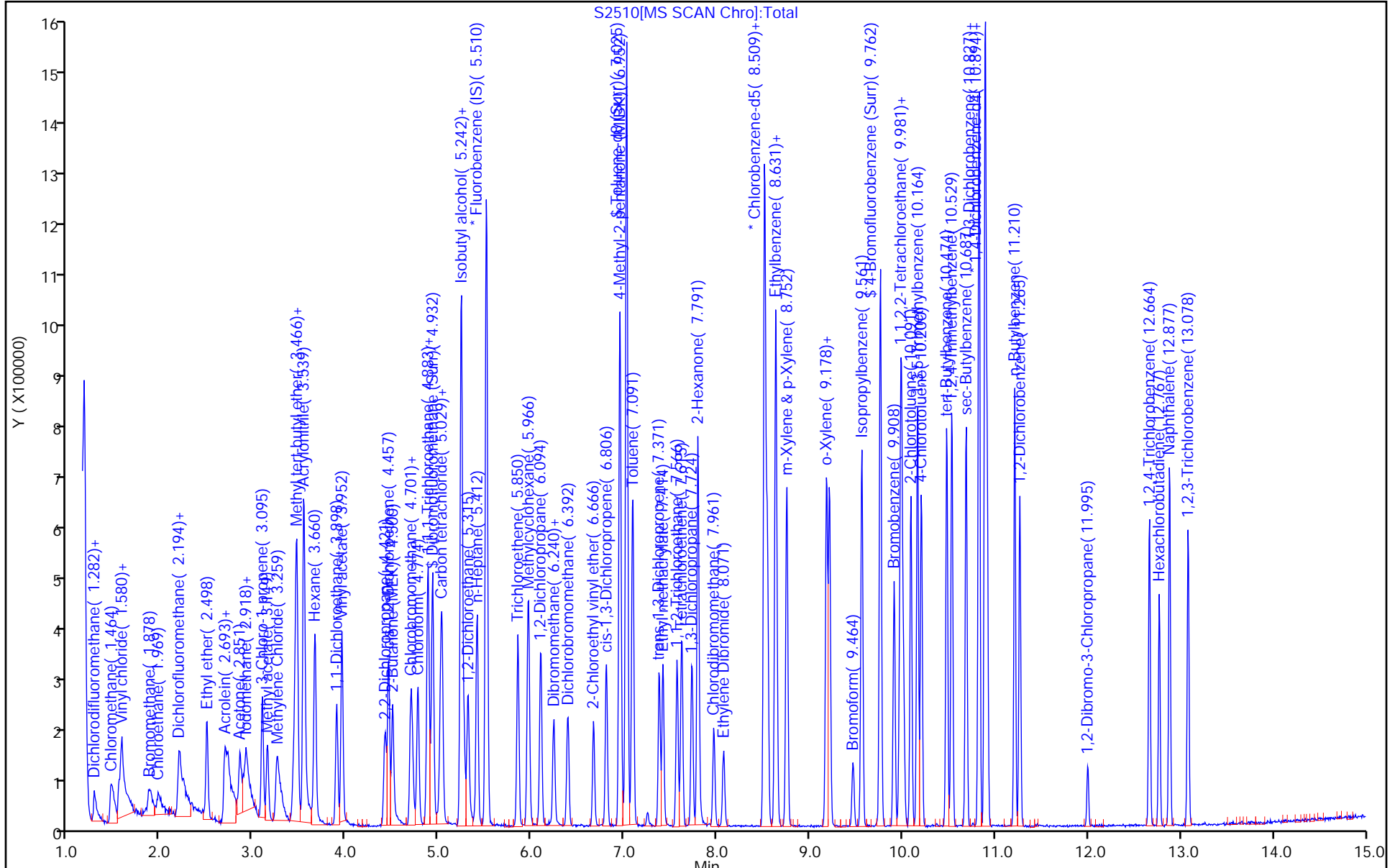
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

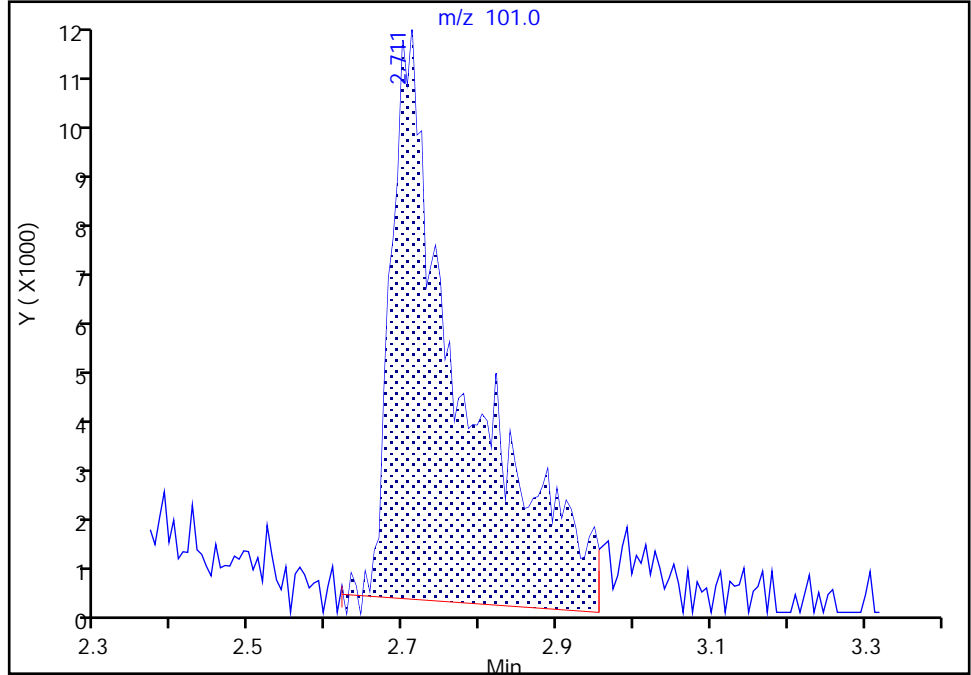
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

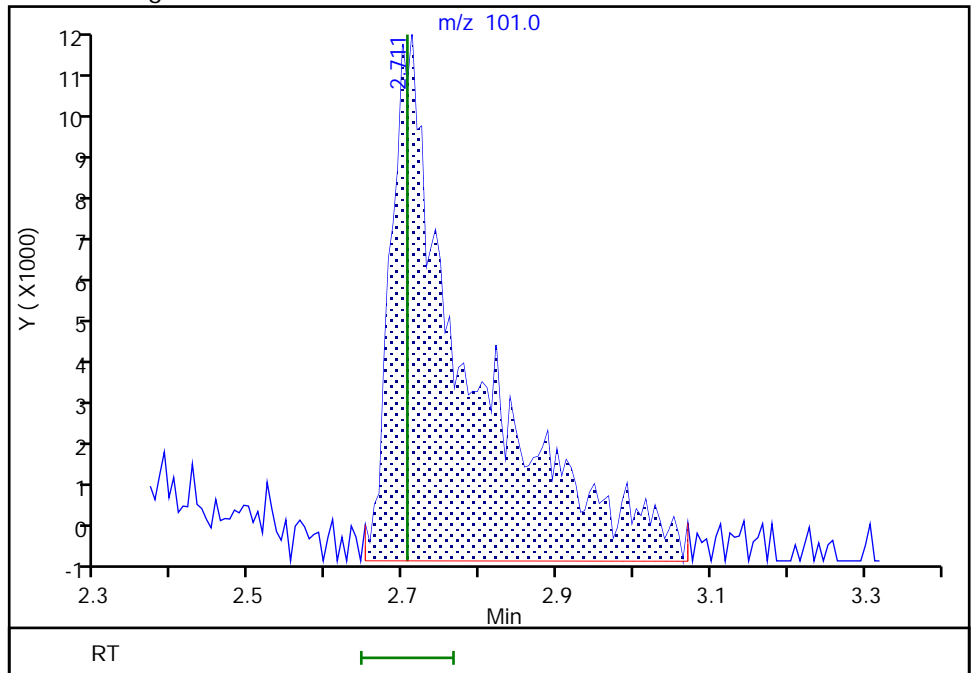
RT: 2.71
Area: 74021
Amount: 9.501471
Amount Units: ug/L

Processing Integration Results



RT: 2.71
Area: 83709
Amount: 10.683331
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:22:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

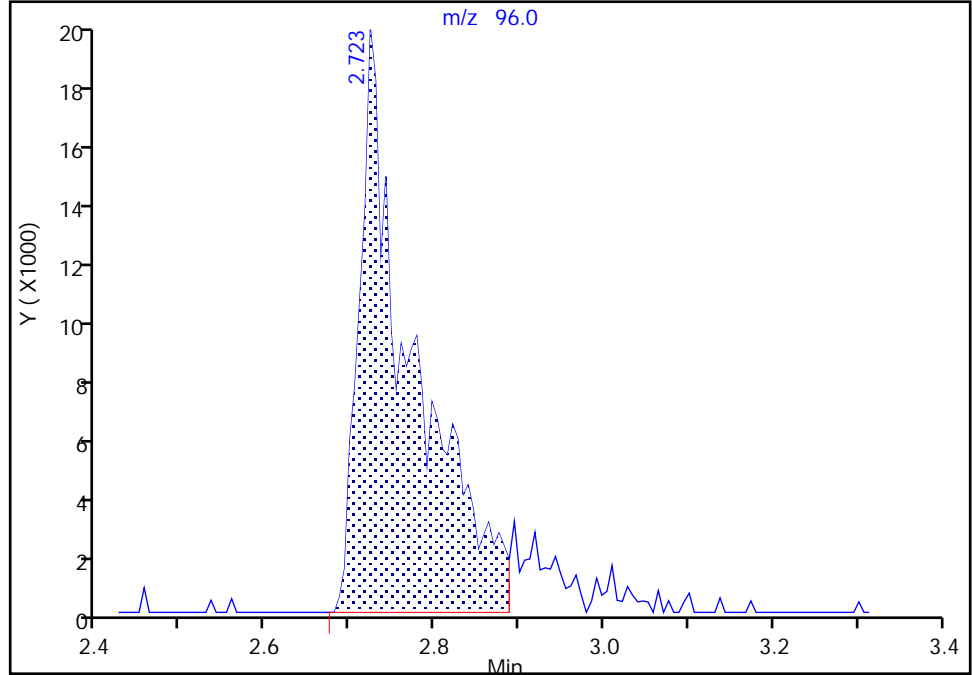
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

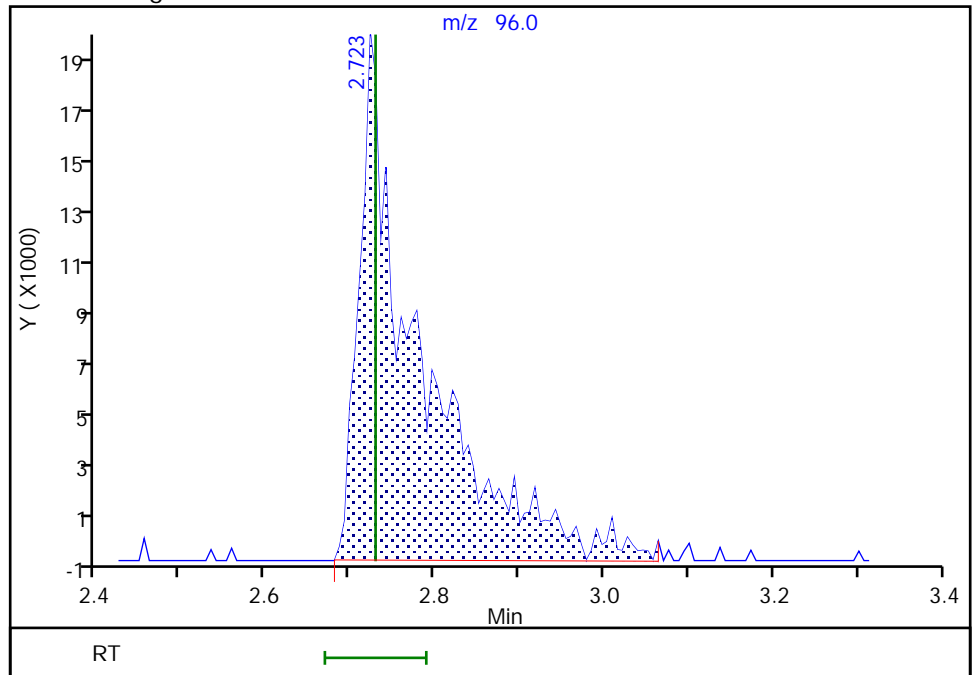
RT: 2.72
Area: 85549
Amount: 10.295861
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 96639
Amount: 10.709001
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 23:19:06
Audit Action: Manually Integrated

TestAmerica Buffalo

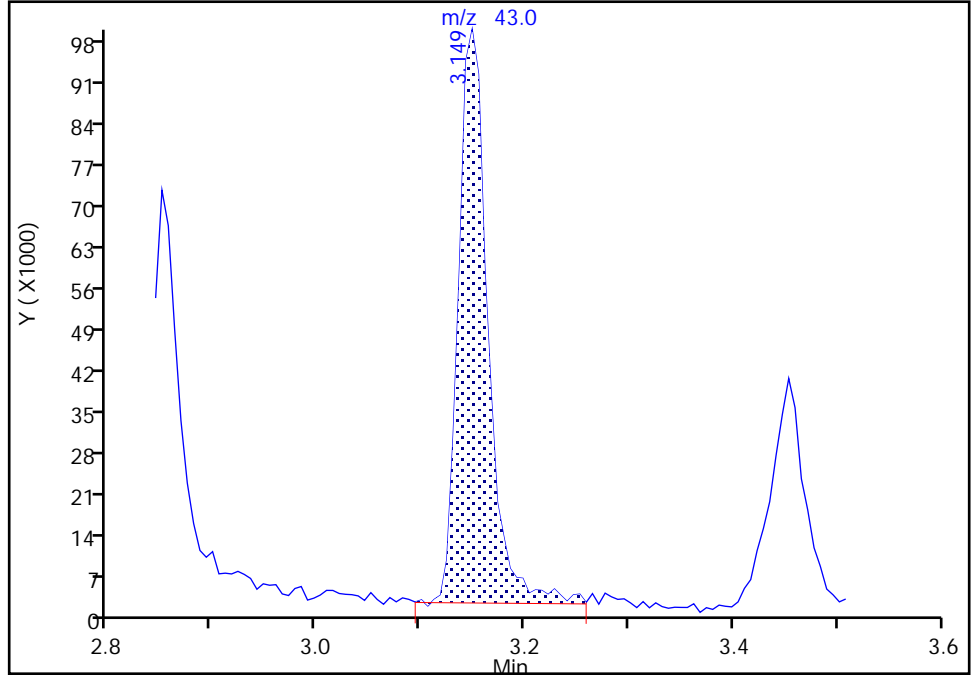
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

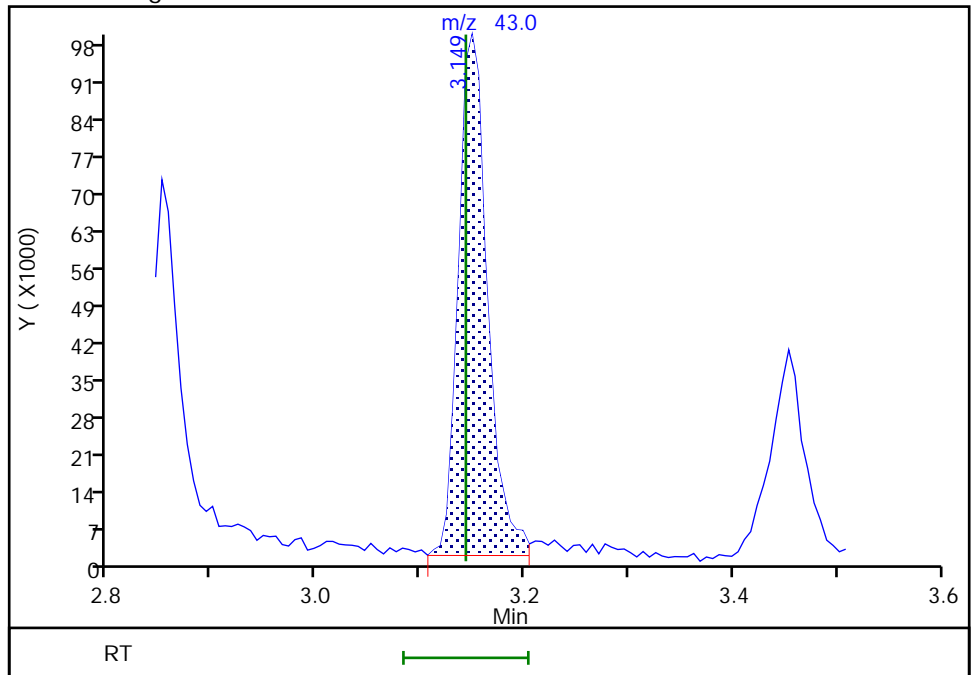
RT: 3.15
Area: 192902
Amount: 18.670750
Amount Units: ug/L

Processing Integration Results



RT: 3.15
Area: 190812
Amount: 18.491841
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:29:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

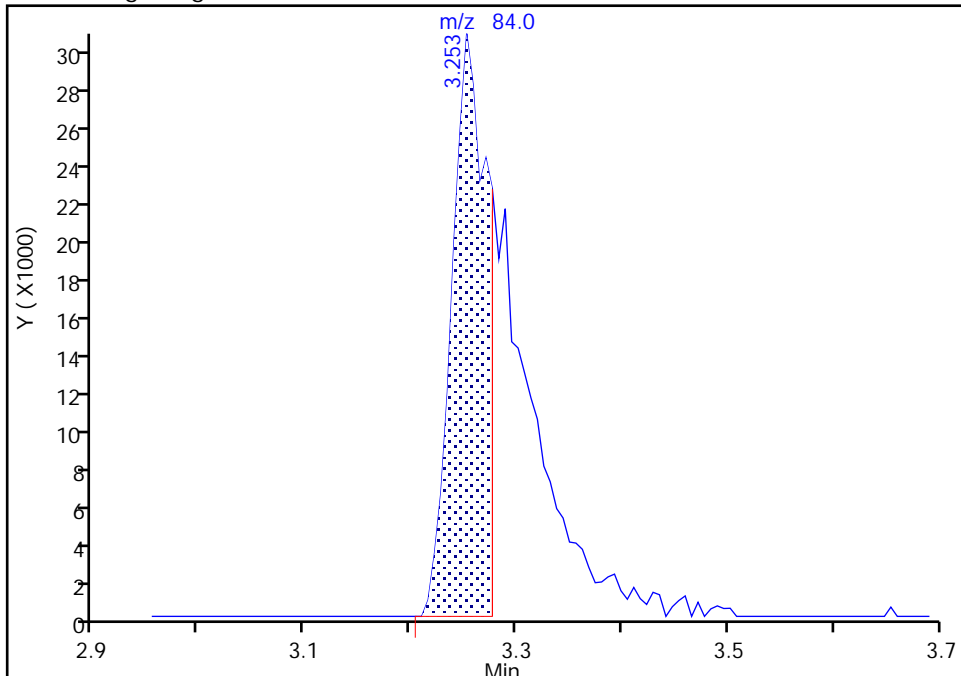
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

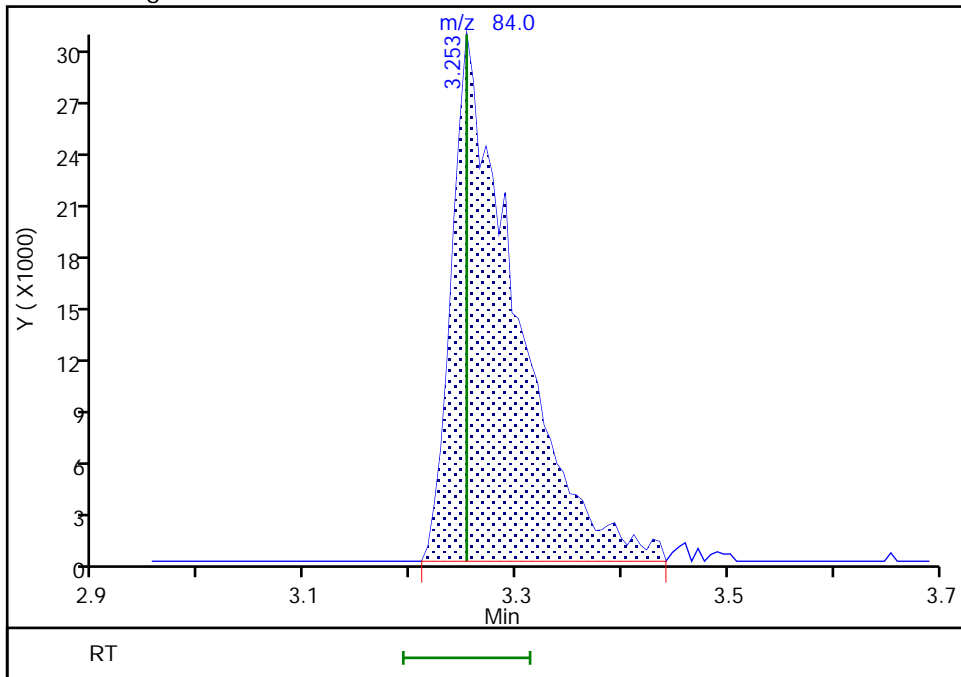
RT: 3.25
Area: 70355
Amount: 3.535941
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 127431
Amount: 9.654141
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:43:27
Audit Action: Manually Integrated

TestAmerica Buffalo

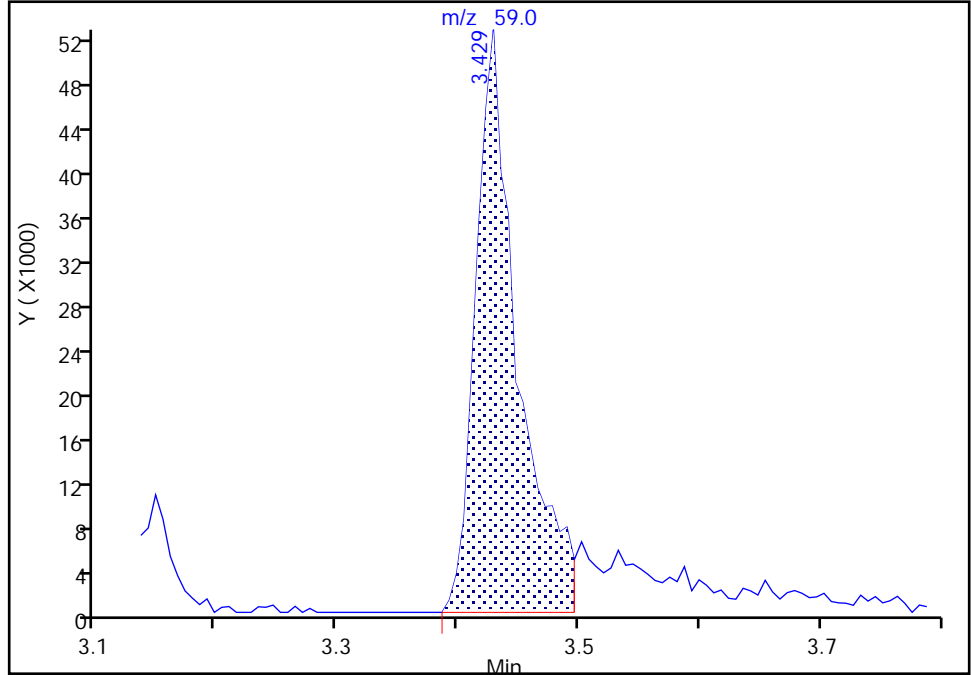
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

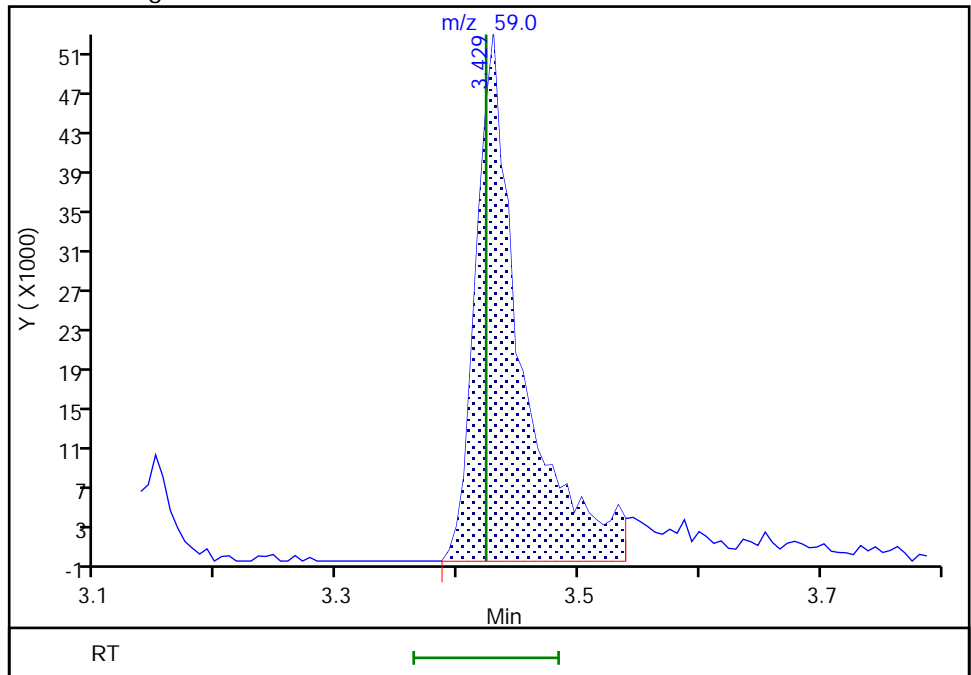
RT: 3.43
Area: 125953
Amount: 105.2771
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 137981
Amount: 103.6085
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:50:37
Audit Action: Manually Integrated

TestAmerica Buffalo

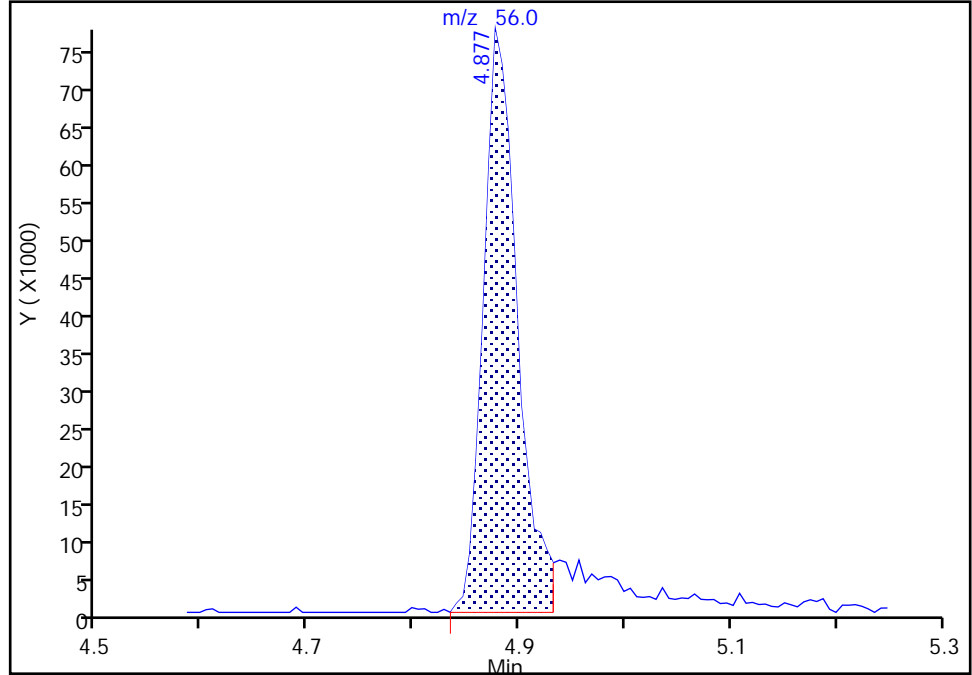
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

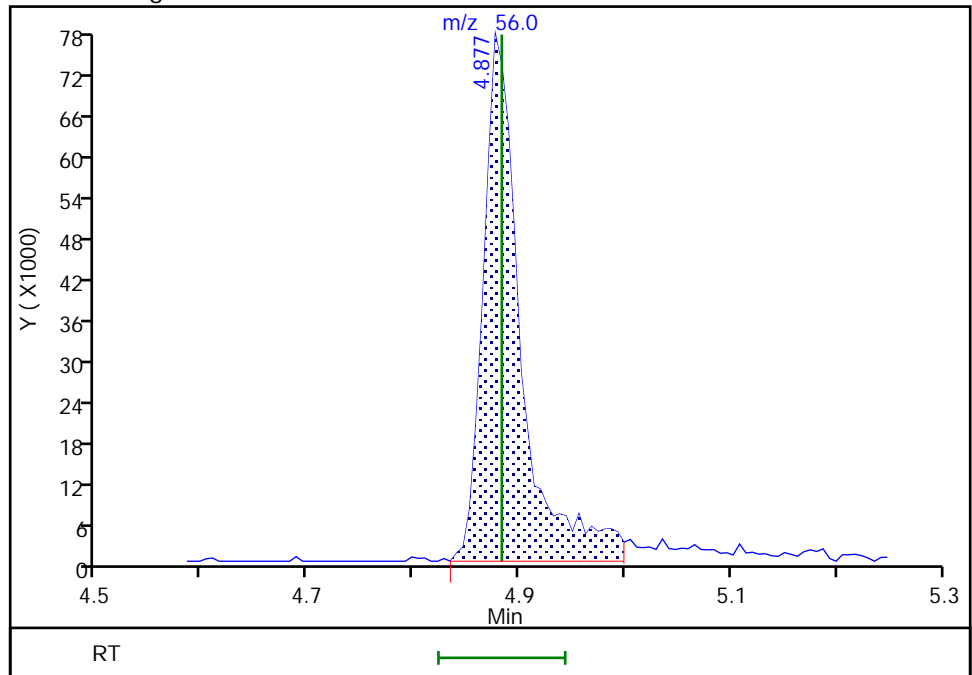
RT: 4.88
Area: 172484
Amount: 9.184054
Amount Units: ug/L

Processing Integration Results



RT: 4.88
Area: 192312
Amount: 10.106438
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:30:39
Audit Action: Manually Integrated

TestAmerica Buffalo

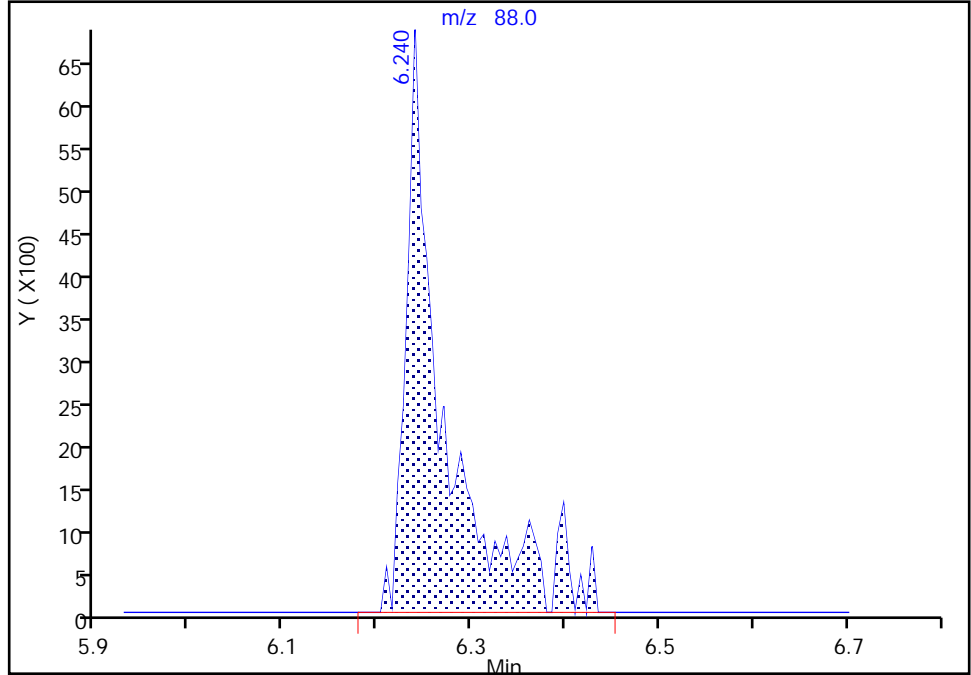
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Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

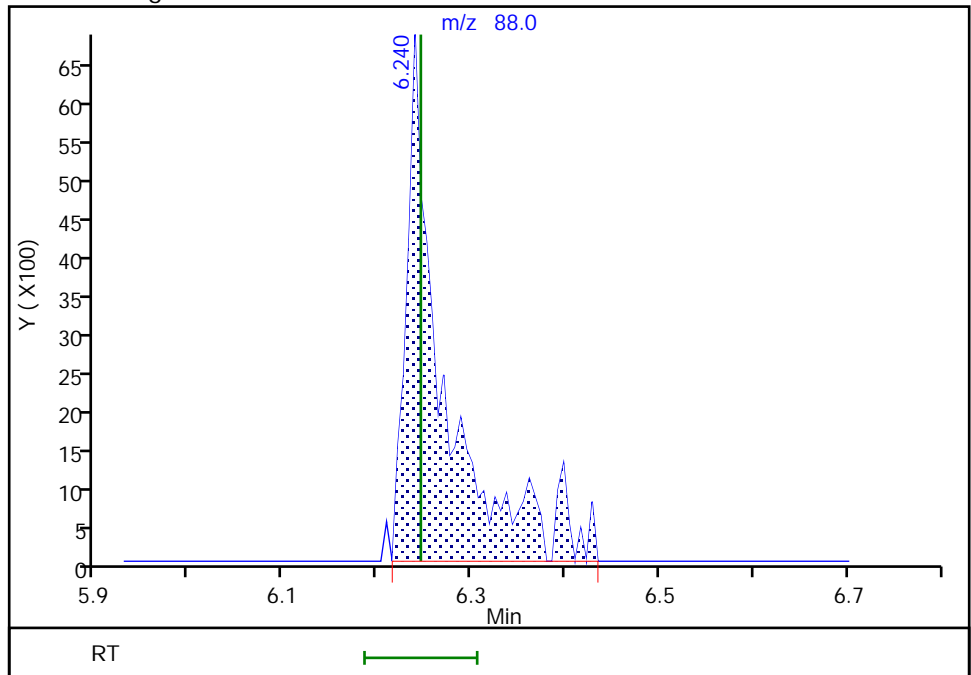
RT: 6.24
Area: 18966
Amount: 219.4414
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 18780
Amount: 217.5811
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:31:28
Audit Action: Manually Integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 20-Jun-2018 15:48:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0072482-010
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:00 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:39:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	197139	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	406209	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	56	365129	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	58	233776	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	156084	25.0	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	970258	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	303043	25.0	24.9	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	97	248186	25.0	26.1	
12 Chloromethane	50	1.464	1.464	0.000	97	380591	25.0	25.2	
13 Vinyl chloride	62	1.549	1.549	0.000	63	333324	25.0	24.9	
151 Butadiene	54	1.574	1.574	0.000	56	325163	25.0	23.2	
14 Bromomethane	94	1.872	1.872	0.000	89	172433	25.0	24.0	
15 Chloroethane	64	1.969	1.969	0.000	97	204270	25.0	25.2	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	95	412155	25.0	23.2	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	76	332653	25.0	26.2	
18 Ethyl ether	59	2.492	2.492	0.000	92	290892	25.0	25.7	
20 Acrolein	56	2.687	2.687	0.000	95	284078	125.0	131.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	68	184140	25.0	23.9	
22 1,1-Dichloroethene	96	2.730	2.730	0.000	90	229631	25.0	26.4	
23 Acetone	43	2.851	2.851	0.000	100	412424	125.0	108.7	
25 Iodomethane	142	2.894	2.894	0.000	98	347195	25.0	27.3	
26 Carbon disulfide	76	2.918	2.918	0.000	98	700429	25.0	25.2	
28 3-Chloro-1-propene	41	3.089	3.089	0.000	88	413143	25.0	24.5	
27 Methyl acetate	43	3.143	3.143	0.000	95	441430	50.0	44.3	
30 Methylene Chloride	84	3.253	3.253	0.000	97	284846	25.0	24.7	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	95	307003	250.0	238.9	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	92	832097	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	95	255195	25.0	25.6	
33 Acrylonitrile	53	3.539	3.539	0.000	98	1323936	250.0	250.1	
35 Hexane	57	3.660	3.660	0.000	84	446557	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	96	523385	25.0	24.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	1230989	50.0	50.9	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	297960	25.0	25.6	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	298747	25.0	26.1	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	717854	125.0	123.3	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	146527	25.0	26.8	
49 Tetrahydrofuran	42	4.713	4.713	0.000	93	202767	50.0	50.7	
50 Chloroform	83	4.774	4.774	0.000	93	443774	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	94	345970	25.0	25.3	
52 Cyclohexane	56	4.883	4.883	0.000	89	482758	25.0	26.3	
55 Carbon tetrachloride	117	5.011	5.011	0.000	89	300091	25.0	26.2	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	93	338452	25.0	24.3	
57 Benzene	78	5.236	5.236	0.000	96	1062500	25.0	25.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	94	329152	625.0	608.4	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	415950	25.0	24.6	
59 n-Heptane	43	5.412	5.412	0.000	91	415475	25.0	24.3	
62 Trichloroethene	95	5.850	5.850	0.000	97	271489	25.0	25.2	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	424498	25.0	25.8	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	95	311720	25.0	24.7	
67 Dibromomethane	93	6.234	6.234	0.000	94	168616	25.0	25.6	
66 1,4-Dioxane	88	6.246	6.246	0.000	29	46908	500.0	521.5	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	344167	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	88	225325	25.0	26.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	423733	25.0	26.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1601823	125.0	123.5	
74 Toluene	92	7.085	7.085	0.000	94	659595	25.0	24.4	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	93	391909	25.0	26.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	383401	25.0	26.3	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	202209	25.0	24.9	
81 Tetrachloroethene	166	7.615	7.615	0.000	85	279490	25.0	24.5	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	94	425777	25.0	24.8	
80 2-Hexanone	43	7.791	7.791	0.000	90	1170919	125.0	122.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	247163	25.0	26.7	
84 Ethylene Dibromide	107	8.071	8.071	0.000	97	252512	25.0	24.6	
87 Chlorobenzene	112	8.539	8.539	0.000	93	730835	25.0	24.7	
88 Ethylbenzene	91	8.631	8.631	0.000	99	1214363	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	246580	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	469623	25.0	23.7	
91 o-Xylene	106	9.178	9.178	0.000	97	471745	25.0	25.1	
92 Styrene	104	9.209	9.209	0.000	92	821536	25.0	25.5	
95 Bromoform	173	9.464	9.464	0.000	95	156408	25.0	26.5	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	1180615	25.0	25.6	
101 Bromobenzene	156	9.908	9.908	0.000	97	304349	25.0	26.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	72	315135	25.0	25.2	
99 N-Propylbenzene	91	9.987	9.987	0.000	98	1379737	25.0	25.9	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	70	107926	25.0	26.2	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	114077	25.0	25.6	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	288633	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	83	1006297	25.0	25.2	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	309390	25.0	26.3	
106 tert-Butylbenzene	134	10.474	10.474	0.000	93	228134	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1069434	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1239742	25.0	25.9	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1092636	25.0	26.5	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	573712	25.0	25.4	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	581426	25.0	25.2	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	994221	25.0	26.8	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	93	559407	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	76	66108	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	411331	25.0	26.0	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	195098	25.0	25.8	
121 Naphthalene	128	12.877	12.877	0.000	97	1171879	25.0	27.1	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	393148	25.0	26.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D

Injection Date: 20-Jun-2018 15:48:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: ICIS 5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

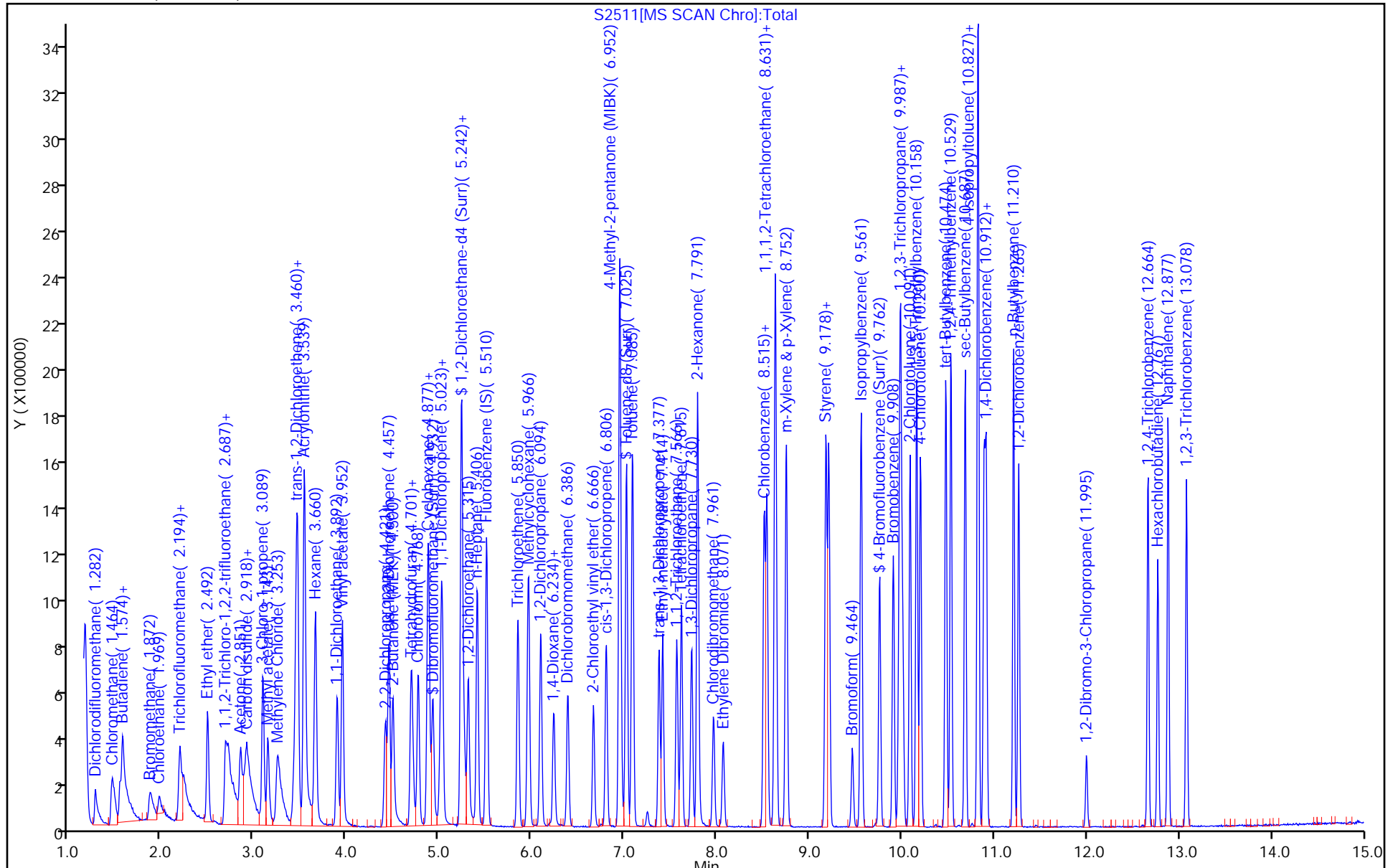
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

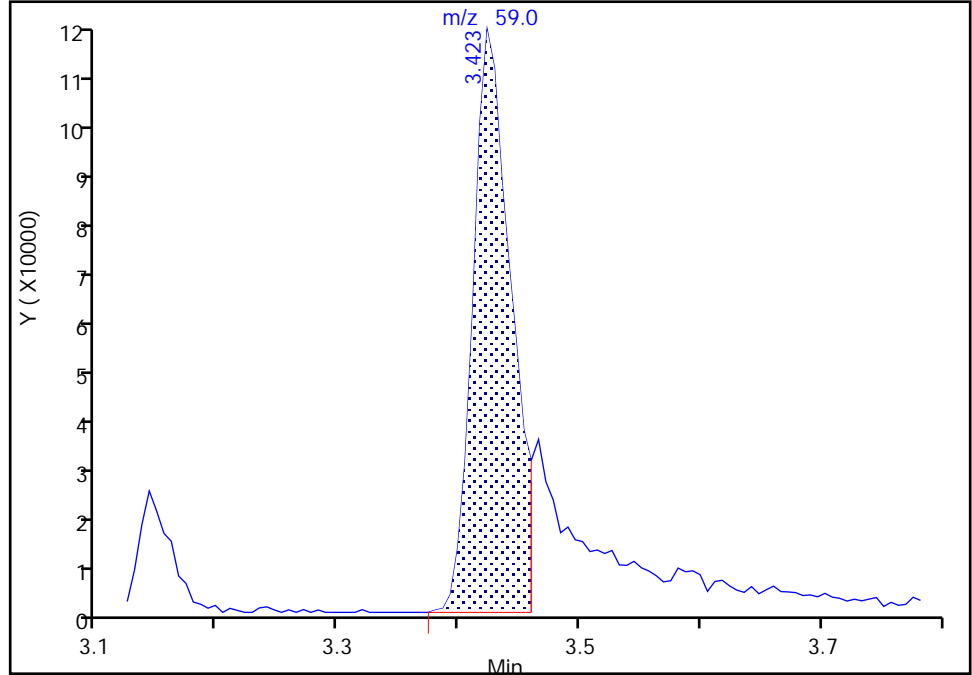
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Injection Date: 20-Jun-2018 15:48:30 Instrument ID: HP5973S
Lims ID: ICIS 5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

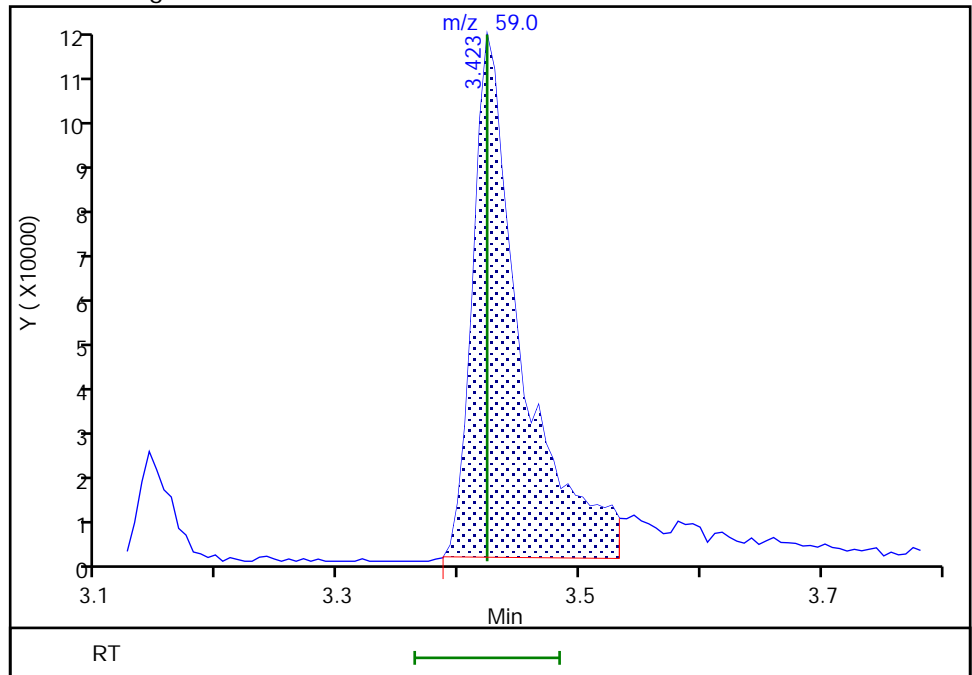
RT: 3.42
Area: 243993
Amount: 233.1605
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 307003
Amount: 238.8921
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:49:52
Audit Action: Manually Integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 20-Jun-2018 16:11:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0072482-011
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:07 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:20:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	192452	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394691	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	42	371185	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	56	244934	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	158160	25.0	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	89	970429	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	302035	25.0	25.6	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	99	556127	50.0	60.0	
12 Chloromethane	50	1.458	1.464	-0.006	99	752596	50.0	51.1	
13 Vinyl chloride	62	1.543	1.549	-0.006	93	722212	50.0	55.2	
151 Butadiene	54	1.574	1.574	0.000	86	714525	50.0	52.3	
14 Bromomethane	94	1.878	1.872	0.006	88	360223	50.0	51.3	
15 Chloroethane	64	1.969	1.969	0.000	99	423584	50.0	53.5	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	81	736903	50.0	59.4	M
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	843653	50.0	48.6	
18 Ethyl ether	59	2.492	2.492	0.000	92	596459	50.0	54.1	
20 Acrolein	56	2.681	2.687	-0.006	96	575962	250.0	272.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	65	364156	50.0	48.0	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	95	465301	50.0	54.7	
23 Acetone	43	2.845	2.851	-0.006	97	904483	250.0	244.3	
25 Iodomethane	142	2.894	2.894	0.000	97	730136	50.0	58.7	
26 Carbon disulfide	76	2.918	2.918	0.000	98	1472959	50.0	54.4	
28 3-Chloro-1-propene	41	3.088	3.089	0.000	88	844115	50.0	51.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	983740	100.0	101.2	
30 Methylene Chloride	84	3.253	3.253	0.000	98	551561	50.0	50.8	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	94	680866	500.0	542.7	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	1670515	50.0	52.4	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	93	508786	50.0	52.3	
33 Acrylonitrile	53	3.539	3.539	0.000	98	2745107	500.0	531.3	
35 Hexane	57	3.660	3.660	0.000	83	940801	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.891	3.892	-0.001	97	1069251	50.0	52.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	2352331	100.0	99.5	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	92	592229	50.0	52.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	596033	50.0	53.3	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	1439504	250.0	253.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	97	285479	50.0	53.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	90	387841	100.0	99.3	
50 Chloroform	83	4.768	4.774	-0.006	94	907363	50.0	50.7	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	95	716429	50.0	53.8	
52 Cyclohexane	56	4.883	4.883	0.000	91	997545	50.0	55.6	
55 Carbon tetrachloride	117	5.017	5.011	0.006	92	637175	50.0	57.1	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	714312	50.0	52.6	
57 Benzene	78	5.236	5.236	0.000	97	2128022	50.0	52.1	
53 Isobutyl alcohol	43	5.266	5.266	0.000	97	721955	1250.0	1367.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	79	838833	50.0	50.9	
59 n-Heptane	43	5.406	5.412	-0.006	91	829266	50.0	49.7	
62 Trichloroethene	95	5.850	5.850	0.000	97	545392	50.0	51.8	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	895898	50.0	55.9	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	642638	50.0	52.2	
67 Dibromomethane	93	6.234	6.234	0.000	91	338999	50.0	52.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	33	91625	1000.0	1034.9	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	708669	50.0	57.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	451891	50.0	55.0	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	863532	50.0	55.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	3068632	250.0	243.5	
74 Toluene	92	7.085	7.085	0.000	95	1345091	50.0	51.3	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	95	800744	50.0	55.4	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	758693	50.0	53.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	92	408565	50.0	51.7	
81 Tetrachloroethene	166	7.615	7.615	0.000	87	580239	50.0	52.4	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	866770	50.0	52.0	
80 2-Hexanone	43	7.791	7.791	0.000	90	2254226	250.0	243.0	
83 Chlorodibromomethane	129	7.967	7.961	0.006	90	515833	50.0	57.4	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	508600	50.0	51.1	
87 Chlorobenzene	112	8.539	8.539	0.000	92	1474031	50.0	51.3	
88 Ethylbenzene	91	8.631	8.631	0.000	98	2446781	50.0	51.7	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.643	-0.006	48	510400	50.0	54.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	969691	50.0	50.4	
91 o-Xylene	106	9.178	9.178	0.000	97	960148	50.0	52.6	
92 Styrene	104	9.209	9.209	0.000	94	1666910	50.0	53.2	
95 Bromoform	173	9.464	9.464	0.000	97	339740	50.0	59.2	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	2412885	50.0	51.6	
101 Bromobenzene	156	9.908	9.908	0.000	95	604551	50.0	51.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	75	630975	50.0	49.6	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	2782295	50.0	51.3	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	69	221749	50.0	53.0	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	231344	50.0	50.4	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	577783	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	85	2040375	50.0	50.3	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	620467	50.0	51.9	
106 tert-Butylbenzene	134	10.480	10.474	0.006	93	469785	50.0	54.3	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	2132089	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	2510799	50.0	51.6	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	1163942	50.0	50.6	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	2224584	50.0	53.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	1170382	50.0	49.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1968301	50.0	52.1	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	1131910	50.0	50.0	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	82	138297	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	859177	50.0	53.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	404793	50.0	52.6	
121 Naphthalene	128	12.877	12.877	0.000	97	2369399	50.0	53.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	95	796689	50.0	53.6	
S 123 Total BTEX	1				0			258.1	
S 125 1,2-Dichloroethene, Total	1				0			105.6	
S 124 Xylenes, Total	1				0			103.0	
S 126 1,3-Dichloropropene, Total	1				0			110.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 25.00

Units: uL

GAS CORP mix_00287

Amount Added: 25.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D

Injection Date: 20-Jun-2018 16:11:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 6

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

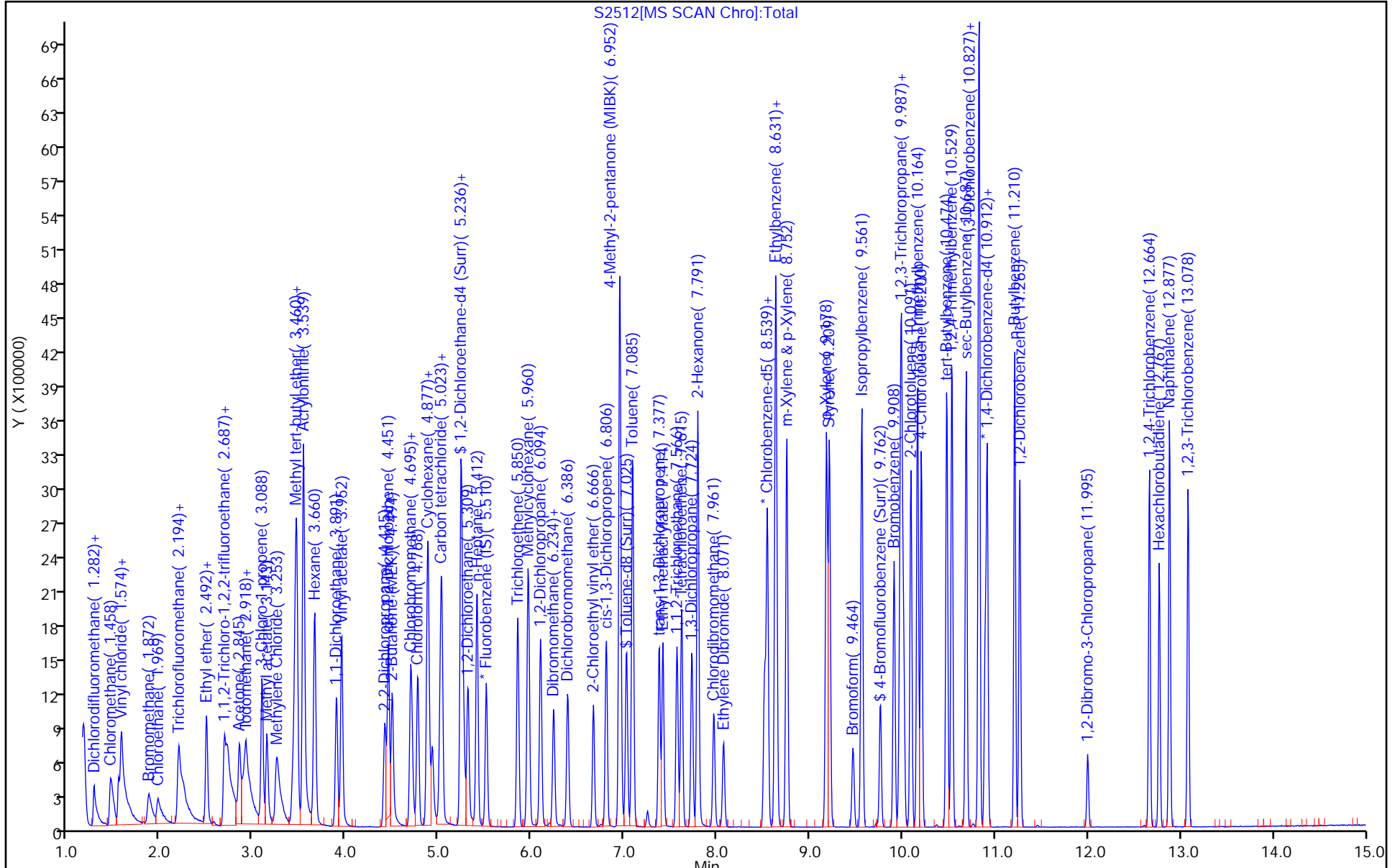
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

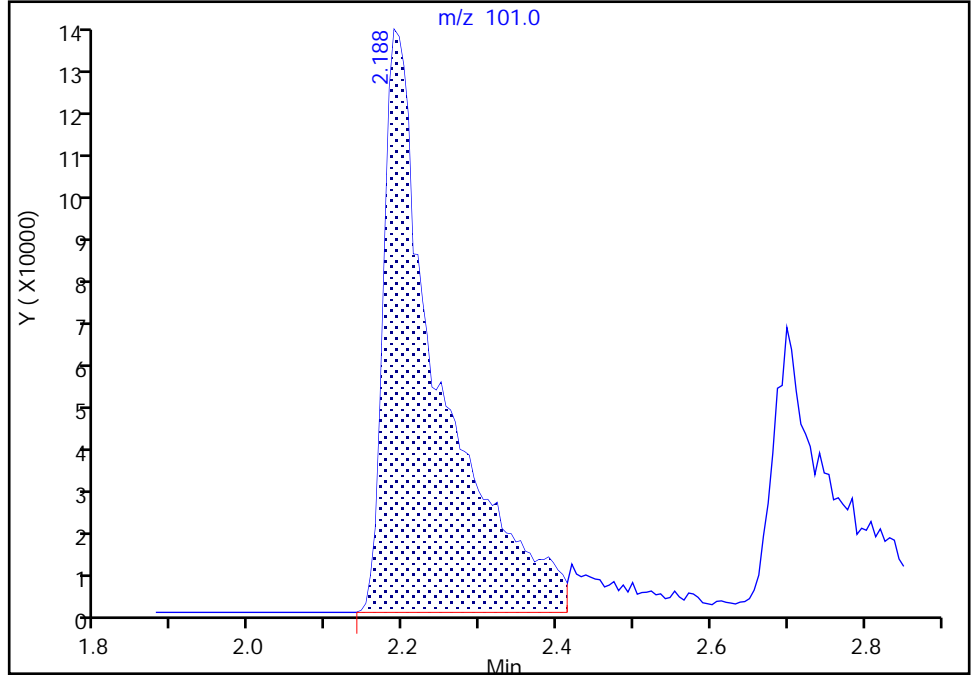
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Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

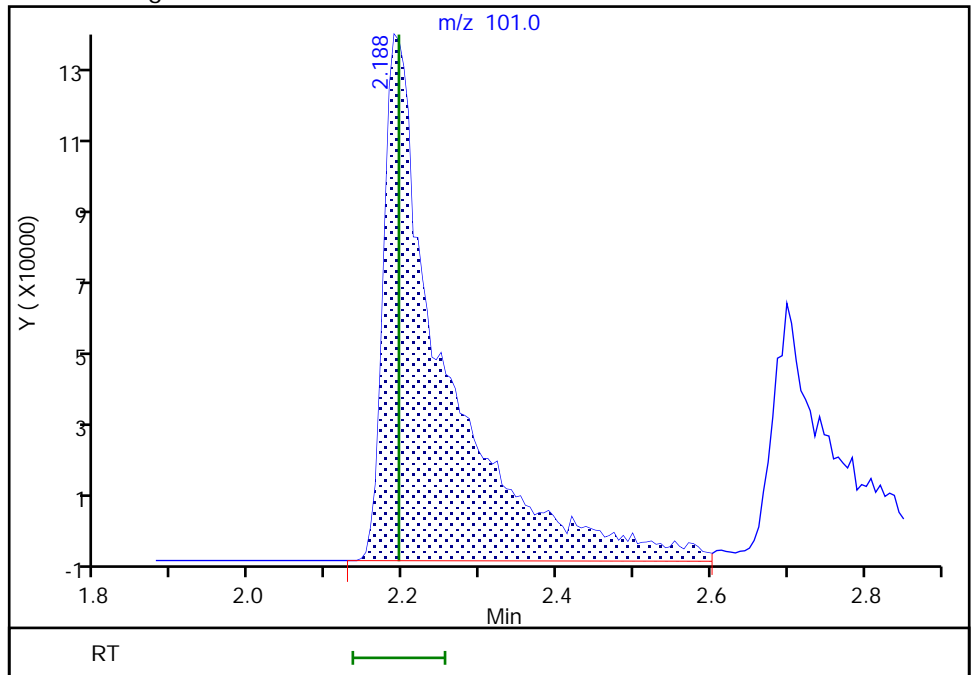
RT: 2.19
Area: 674194
Amount: 50.268036
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 736903
Amount: 59.400714
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 23:01:35
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 233 of 473

TestAmerica Buffalo

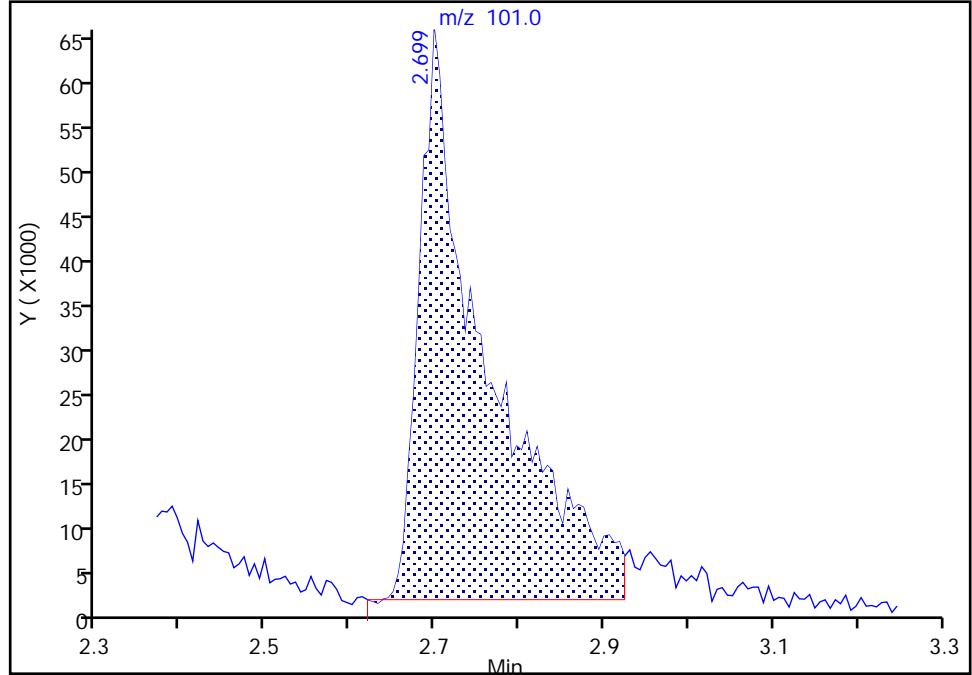
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Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

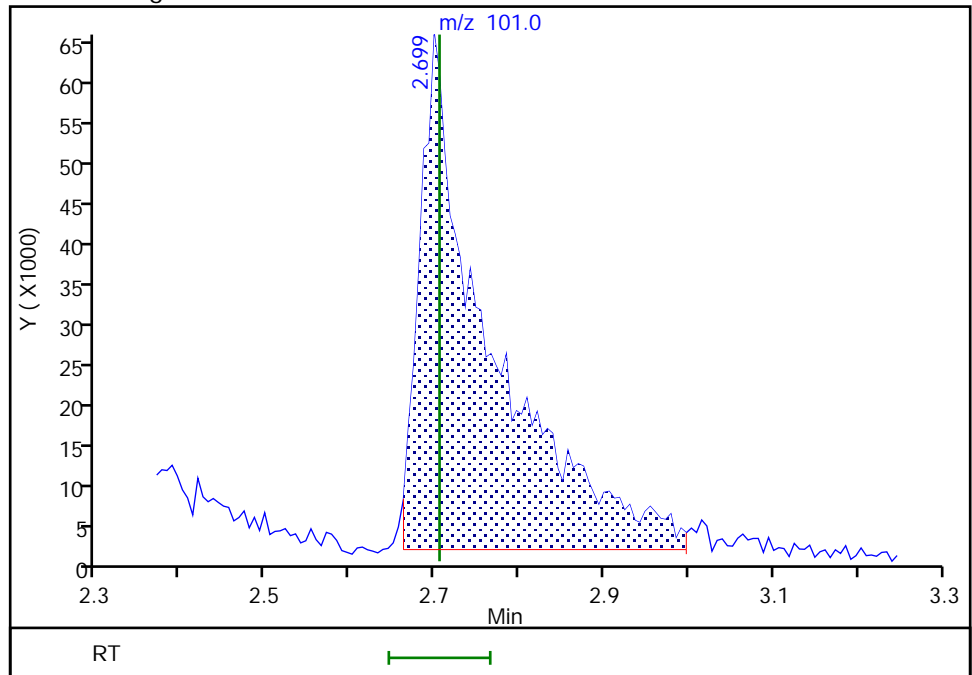
RT: 2.70
Area: 349411
Amount: 45.201404
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 364156
Amount: 47.992777
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:33:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 20-Jun-2018 16:34:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0072482-012
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:11 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	203954	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	404509	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	17	376772	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	247091	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	152101	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	64	969583	25.0	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	306600	25.0	25.3	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	1042243	100.0	106.1	M
12 Chloromethane	50	1.464	1.464	0.000	99	1481396	100.0	94.9	
13 Vinyl chloride	62	1.543	1.549	-0.006	82	1374584	100.0	99.1	
151 Butadiene	54	1.574	1.574	0.000	82	1368549	100.0	94.6	
14 Bromomethane	94	1.878	1.872	0.006	91	712144	100.0	95.8	
15 Chloroethane	64	1.969	1.969	0.000	99	830061	100.0	98.8	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	1716432	100.0	93.3	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	85	1437497	100.0	109.3	
18 Ethyl ether	59	2.492	2.492	0.000	92	1181934	100.0	101.1	
20 Acrolein	56	2.687	2.687	0.000	98	1162249	500.0	518.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	59	822020	100.0	101.8	M
22 1,1-Dichloroethene	96	2.724	2.730	-0.006	94	990419	100.0	109.9	
23 Acetone	43	2.845	2.851	-0.006	98	1835772	500.0	467.8	
25 Iodomethane	142	2.894	2.894	0.000	98	1547832	100.0	117.5	
26 Carbon disulfide	76	2.918	2.918	0.000	98	3032330	100.0	105.6	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	89	1733446	100.0	99.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	1983551	200.0	192.5	
30 Methylene Chloride	84	3.253	3.253	0.000	96	1126336	100.0	99.6	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	1598960	1000.0	1202.6	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	3395940	100.0	100.6	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	92	1050113	100.0	101.9	
33 Acrylonitrile	53	3.539	3.539	0.000	97	5416558	1000.0	989.2	
35 Hexane	57	3.660	3.660	0.000	87	1983165	100.0	104.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	2191279	100.0	100.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	4622714	200.0	184.6	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	1257016	100.0	104.4	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	1225447	100.0	103.4	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	95	3041661	500.0	504.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	98	585187	100.0	103.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	87	822605	200.0	198.7	
50 Chloroform	83	4.774	4.774	0.000	93	1854730	100.0	97.9	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	1501541	100.0	106.3	
52 Cyclohexane	56	4.877	4.883	-0.006	91	2165602	100.0	114.0	
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	1320508	100.0	111.6	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	1495256	100.0	103.9	
57 Benzene	78	5.236	5.236	0.000	98	4301395	100.0	99.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	95	1557611	2500.0	2783.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	83	1702374	100.0	97.4	
59 n-Heptane	43	5.406	5.412	-0.006	91	1743611	100.0	98.6	
62 Trichloroethene	95	5.850	5.850	0.000	97	1155378	100.0	103.5	
64 Methylcyclohexane	83	5.960	5.960	0.000	93	1857834	100.0	109.3	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	1287446	100.0	98.6	
67 Dibromomethane	93	6.234	6.234	0.000	90	708426	100.0	104.0	
66 1,4-Dioxane	88	6.240	6.246	-0.006	35	176888	2000.0	1937.7	
68 Dichlorobromomethane	83	6.386	6.386	0.000	99	1480734	100.0	112.8	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	926261	100.0	106.3	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	91	1778596	100.0	107.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	91	5759555	500.0	446.0	
74 Toluene	92	7.092	7.085	0.007	97	2760907	100.0	102.7	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	94	1691433	100.0	114.2	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	1589664	100.0	109.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	844173	100.0	104.2	
81 Tetrachloroethene	166	7.621	7.615	0.006	85	1184748	100.0	104.3	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	93	1776603	100.0	104.0	
80 2-Hexanone	43	7.791	7.791	0.000	87	4341846	500.0	456.8	
83 Chlorodibromomethane	129	7.968	7.961	0.007	91	1120056	100.0	121.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	1055354	100.0	103.4	
87 Chlorobenzene	112	8.539	8.539	0.000	92	3001103	100.0	101.8	
88 Ethylbenzene	91	8.631	8.631	0.000	98	4820637	100.0	99.5	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	1084784	100.0	113.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	2043355	100.0	103.6	
91 o-Xylene	106	9.178	9.178	0.000	97	1982170	100.0	105.9	
92 Styrene	104	9.209	9.209	0.000	94	3414832	100.0	106.3	
95 Bromoform	173	9.464	9.464	0.000	97	760638	100.0	129.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	4783571	100.0	100.7	
101 Bromobenzene	156	9.908	9.908	0.000	96	1270447	100.0	105.7	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	80	1304499	100.0	101.1	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	5345840	100.0	97.1	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	441615	100.0	103.9	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	79	502274	100.0	107.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	1194322	100.0	100.8	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	86	4068375	100.0	98.7	
105 4-Chlorotoluene	126	10.206	10.200	0.006	95	1278707	100.0	105.3	
106 tert-Butylbenzene	134	10.480	10.474	0.006	92	961000	100.0	109.4	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	4149841	100.0	98.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	95	4943148	100.0	100.0	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	4286221	100.0	100.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	2337298	100.0	100.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	2382476	100.0	100.1	
115 n-Butylbenzene	91	11.210	11.210	0.000	95	3893665	100.0	101.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	2277520	100.0	99.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	83	279459	100.0	111.6	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	1741646	100.0	106.5	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	96	853596	100.0	109.2	
121 Naphthalene	128	12.877	12.877	0.000	98	4593666	100.0	102.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	1662277	100.0	110.3	
S 124 Xylenes, Total	1				0			209.6	
S 126 1,3-Dichloropropene, Total	1				0			222.0	
S 123 Total BTEX	1				0			511.1	
S 125 1,2-Dichloroethene, Total	1				0			205.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 50.00

Units: uL

GAS CORP mix_00287

Amount Added: 50.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D

Injection Date: 20-Jun-2018 16:34:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 7

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

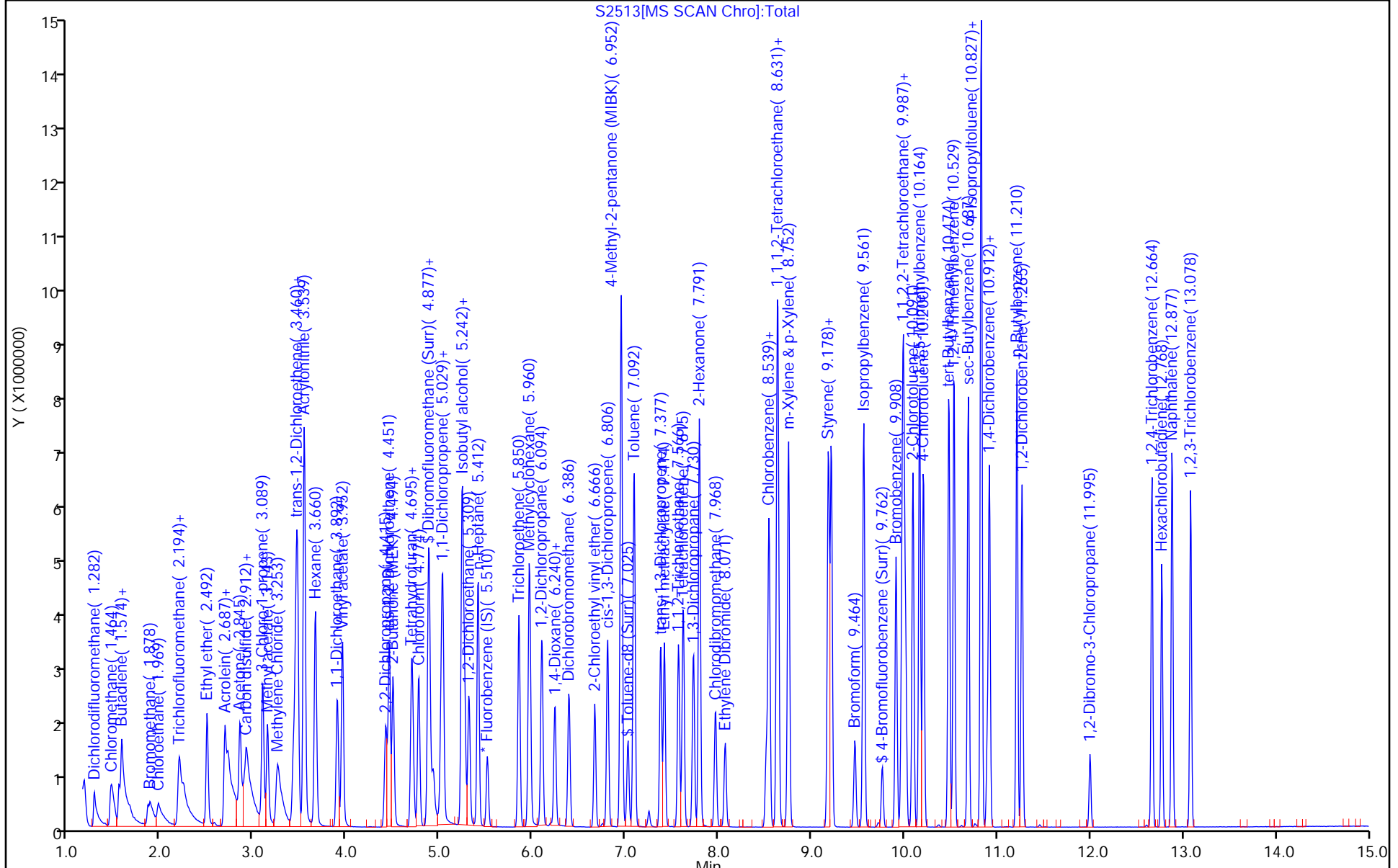
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

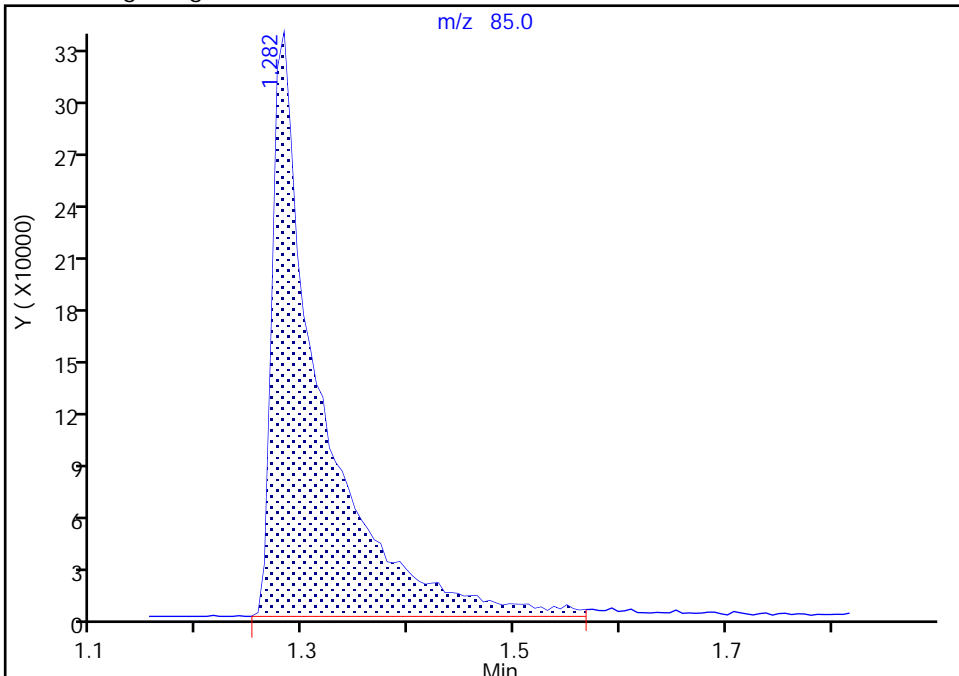
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Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

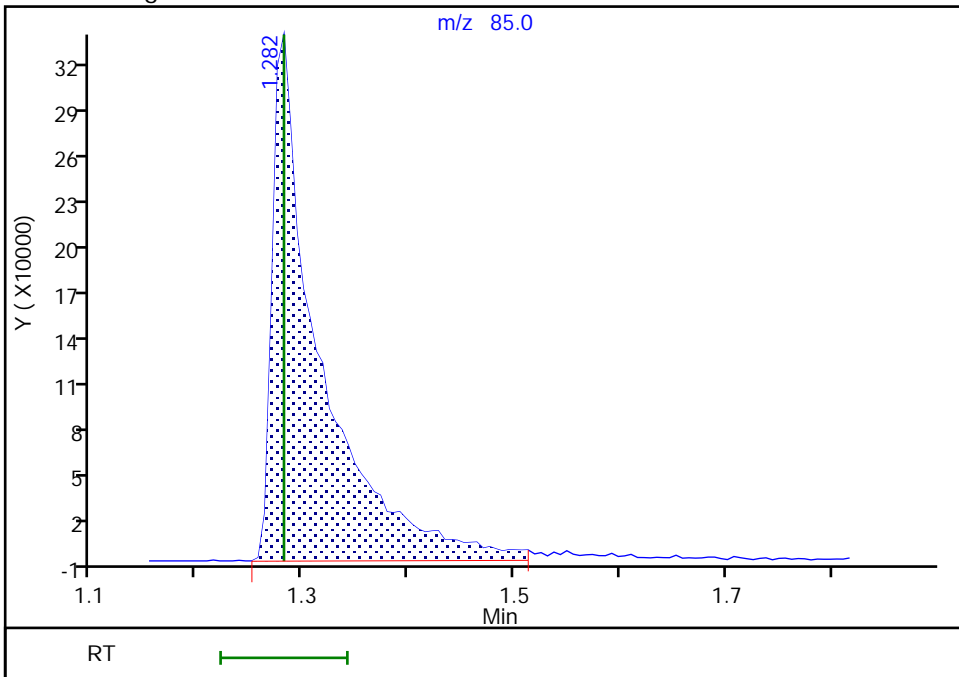
RT: 1.28
Area: 1058190
Amount: 97.253184
Amount Units: ug/L

Processing Integration Results



RT: 1.28
Area: 1042243
Amount: 106.0994
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:50:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

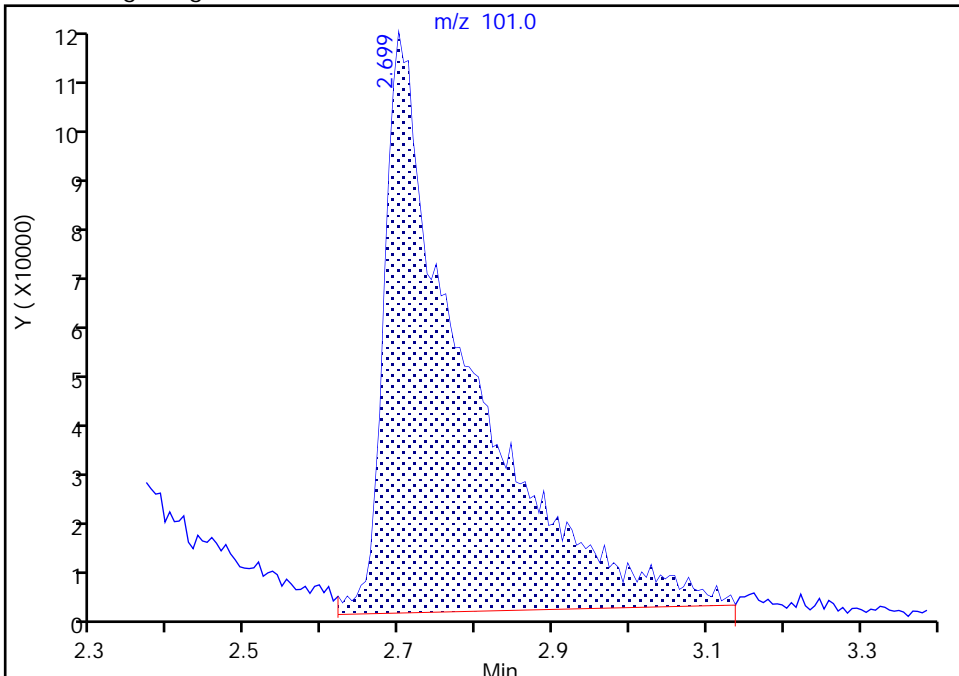
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

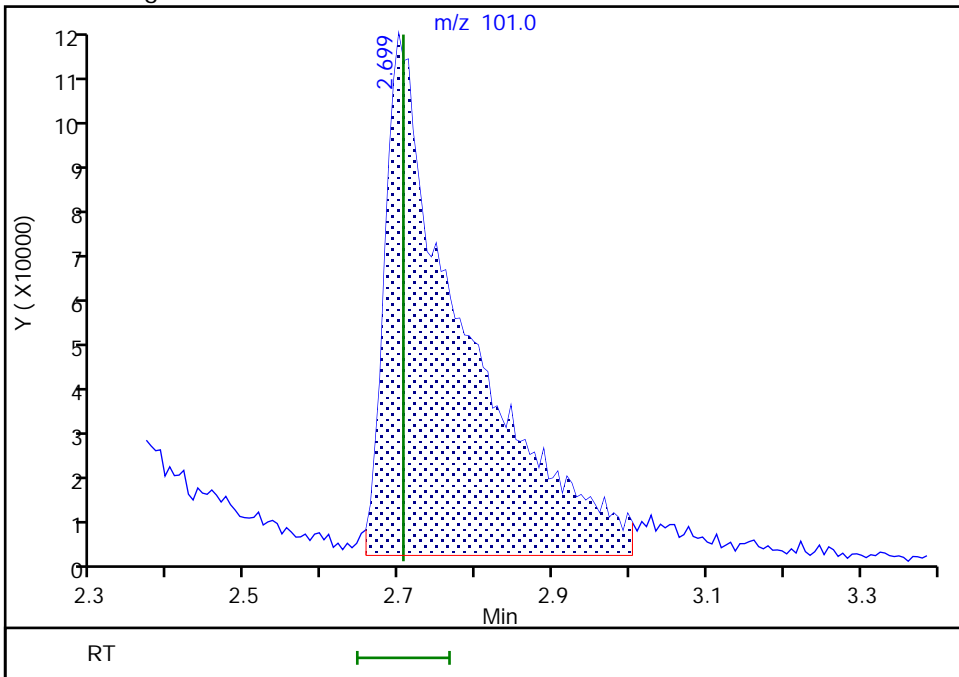
RT: 2.70
Area: 865473
Amount: 103.9221
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 822020
Amount: 101.8067
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:38:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-420936/5 Calibration Date: 06/21/2018 18:24
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2557.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.204	1.377	0.1000	28.6	25.0	14.4	50.0
Chloromethane	Ave	1.913	1.889	0.1000	24.7	25.0	-1.2	20.0
Vinyl chloride	Ave	1.701	1.845	0.1000	27.1	25.0	8.5	20.0
Butadiene	Ave	1.774	1.829		25.8	25.0	3.1	20.0
Bromomethane	Ave	0.9114	0.9061	0.1000	24.9	25.0	-0.6	50.0
Chloroethane	Ave	1.029	1.028	0.1000	25.0	25.0	-0.2	50.0
Trichlorofluoromethane	Ave	1.612	1.614	0.1000	25.0	25.0	0.1	20.0
Dichlorofluoromethane	Ave	2.255	2.096		23.2	25.0	-7.1	20.0
Ethyl ether	Ave	1.434	1.499		26.1	25.0	4.5	20.0
Acrolein	Ave	0.2746	0.2946		134	125	7.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.8976	0.1000	23.0	25.0	-8.2	20.0
1,1-Dichloroethene	Ave	1.104	1.169	0.1000	26.5	25.0	5.8	20.0
Acetone	Ave	0.4810	0.4619	0.1000	120	125	-4.0	50.0
Iodomethane	Ave	1.615	1.890		29.3	25.0	17.1	20.0
Carbon disulfide	Ave	3.520	3.657	0.1000	26.0	25.0	3.9	20.0
Allyl chloride	Ave	2.141	2.264		26.4	25.0	5.7	20.0
Methyl acetate	Ave	1.263	1.238	0.1000	49.0	50.0	-1.9	50.0
Methylene Chloride	Lin1		1.405	0.1000	24.0	25.0	-4.0	20.0
2-Methyl-2-propanol	Ave	0.1630	0.1936		297	250	18.8	50.0
Methyl tert-butyl ether	Ave	4.138	4.287	0.1000	25.9	25.0	3.6	20.0
trans-1,2-Dichloroethene	Ave	1.264	1.365	0.1000	27.0	25.0	8.0	20.0
Acrylonitrile	Ave	0.6712	0.7175		267	250	6.9	20.0
Hexane	Ave	2.330	2.469		26.5	25.0	6.0	20.0
1,1-Dichloroethane	Ave	2.662	2.749	0.2000	25.8	25.0	3.3	20.0
Vinyl acetate	Ave	3.070	3.524		57.4	50.0	14.8	20.0
2,2-Dichloropropane	Ave	1.475	1.717		29.1	25.0	16.4	20.0
cis-1,2-Dichloroethene	Ave	1.452	1.544	0.1000	26.6	25.0	6.3	20.0
2-Butanone (MEK)	Ave	0.7386	0.7561	0.1000	128	125	2.4	20.0
Chlorobromomethane	Ave	0.6939	0.7146		25.7	25.0	3.0	20.0
Tetrahydrofuran	Ave	0.5075	0.5072		50.0	50.0	-0.0	20.0
Chloroform	Ave	2.323	2.244	0.2000	24.2	25.0	-3.4	20.0
1,1,1-Trichloroethane	Ave	1.731	1.848	0.1000	26.7	25.0	6.8	20.0
Cyclohexane	Ave	2.329	2.395	0.1000	25.7	25.0	2.9	20.0
Carbon tetrachloride	Ave	1.451	1.665	0.1000	28.7	25.0	14.8	20.0
1,1-Dichloropropene	Ave	1.764	1.793		25.4	25.0	1.6	20.0
Benzene	Ave	5.304	5.419	0.5000	25.5	25.0	2.2	20.0
Isobutyl alcohol	Ave	0.0686	0.0765		697	625	11.5	50.0
1,2-Dichloroethane	Ave	2.143	2.152	0.1000	25.1	25.0	0.4	20.0
n-Heptane	Ave	2.167	2.177		25.1	25.0	0.4	20.0
Trichloroethene	Ave	1.368	1.367	0.2000	25.0	25.0	-0.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-420936/5 Calibration Date: 06/21/2018 18:24
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2557.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.084	2.328	0.1000	27.9	25.0	11.7	20.0
1,2-Dichloropropane	Ave	1.600	1.612	0.1000	25.2	25.0	0.8	20.0
1,4-Dioxane	Lin1		0.0058		521	500	4.3	50.0
Dibromomethane	Ave	0.8353	0.8672	0.1000	26.0	25.0	3.8	20.0
Bromodichloromethane	Ave	1.609	1.780	0.2000	27.7	25.0	10.7	20.0
2-Chloroethyl vinyl ether	Ave	1.068	1.145		26.8	25.0	7.3	20.0
cis-1,3-Dichloropropene	Ave	2.023	2.215	0.2000	27.4	25.0	9.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7981	0.7904	0.1000	124	125	-1.0	20.0
Toluene	Ave	1.662	1.697	0.4000	25.5	25.0	2.1	20.0
trans-1,3-Dichloropropene	Ave	0.9155	1.031	0.1000	28.2	25.0	12.7	20.0
Ethyl methacrylate	Ave	0.8975	0.9625		26.8	25.0	7.2	20.0
1,1,2-Trichloroethane	Ave	0.5007	0.5196	0.1000	25.9	25.0	3.8	20.0
Tetrachloroethene	Ave	0.7017	0.7351	0.2000	26.2	25.0	4.8	20.0
1,3-Dichloropropane	Ave	1.056	1.102		26.1	25.0	4.4	20.0
2-Hexanone	Ave	0.5875	0.5774	0.1000	123	125	-1.7	20.0
Dibromochloromethane	Ave	0.5694	0.6598	0.1000	29.0	25.0	15.9	20.0
1,2-Dibromoethane	Ave	0.6308	0.6601		26.2	25.0	4.6	20.0
Chlorobenzene	Ave	1.821	1.912	0.5000	26.2	25.0	5.0	20.0
Ethylbenzene	Ave	2.995	3.134	0.1000	26.2	25.0	4.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5890	0.6506		27.6	25.0	10.5	20.0
m-Xylene & p-Xylene	Ave	1.218	1.248	0.1000	25.6	25.0	2.4	20.0
o-Xylene	Ave	1.156	1.196	0.3000	25.9	25.0	3.4	20.0
Styrene	Ave	1.985	2.114	0.3000	26.6	25.0	6.5	20.0
Bromoform	Ave	0.3637	0.4492	0.1000	30.9	25.0	23.5	50.0
Isopropylbenzene	Ave	3.152	3.505	0.1000	27.8	25.0	11.2	20.0
Bromobenzene	Ave	0.7974	0.8618		27.0	25.0	8.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	0.9062	0.3000	26.5	25.0	5.8	20.0
N-Propylbenzene	Ave	3.654	4.055		27.7	25.0	11.0	20.0
1,2,3-Trichloropropane	Ave	0.2819	0.2938		26.1	25.0	4.2	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.3510		28.6	25.0	14.6	50.0
2-Chlorotoluene	Ave	0.7865	0.8126		25.8	25.0	3.3	20.0
1,3,5-Trimethylbenzene	Ave	2.734	2.936		26.8	25.0	7.4	20.0
4-Chlorotoluene	Ave	0.8059	0.8506		26.4	25.0	5.5	20.0
tert-Butylbenzene	Ave	0.5829	0.6543		28.1	25.0	12.2	20.0
1,2,4-Trimethylbenzene	Ave	2.793	3.054		27.3	25.0	9.4	20.0
sec-Butylbenzene	Ave	3.279	3.675		28.0	25.0	12.1	20.0
1,3-Dichlorobenzene	Ave	1.549	1.673	0.6000	27.0	25.0	8.0	20.0
4-Isopropyltoluene	Ave	2.822	3.220		28.5	25.0	14.1	20.0
1,4-Dichlorobenzene	Ave	1.580	1.698	0.5000	26.9	25.0	7.5	20.0
n-Butylbenzene	Ave	2.545	2.882		28.3	25.0	13.2	20.0
1,2-Dichlorobenzene	Ave	1.525	1.579	0.4000	25.9	25.0	3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-420936/5 Calibration Date: 06/21/2018 18:24
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2557.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1662	0.1929	0.0500	29.0	25.0	16.1	50.0
1,2,4-Trichlorobenzene	Ave	1.085	1.179	0.2000	27.2	25.0	8.7	20.0
Hexachlorobutadiene	Ave	0.5186	0.5822		28.1	25.0	12.3	20.0
Naphthalene	Ave	2.965	3.200		27.0	25.0	7.9	20.0
1,2,3-Trichlorobenzene	Ave	1.000	1.072		26.8	25.0	7.2	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.228		25.7	25.0	2.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7832	0.7782		24.8	25.0	-0.6	20.0
Toluene-d8 (Surr)	Ave	2.435	2.406		24.7	25.0	-1.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7477	0.7395		24.7	25.0	-1.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2557.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Jun-2018 18:24:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0072528-005
 Operator ID: KN Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 14:08:45 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 21-Jun-2018 18:46:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	213578	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	427371	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	52	380957	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	60	262319	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	166204	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	1028201	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	86	316042	25.0	24.7	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	294199	25.0	28.6	
12 Chloromethane	50	1.470	1.470	0.000	99	403544	25.0	24.7	
13 Vinyl chloride	62	1.549	1.549	0.000	74	394006	25.0	27.1	
151 Butadiene	54	1.580	1.580	0.000	83	390602	25.0	25.8	
14 Bromomethane	94	1.890	1.890	0.000	88	193517	25.0	24.9	
15 Chloroethane	64	1.994	1.994	0.000	94	219451	25.0	25.0	
17 Trichlorofluoromethane	101	2.188	2.188	0.000	83	344671	25.0	25.0	
16 Dichlorofluoromethane	67	2.206	2.206	0.000	95	447638	25.0	23.2	
18 Ethyl ether	59	2.492	2.492	0.000	91	320056	25.0	26.1	
20 Acrolein	56	2.681	2.681	0.000	98	314621	125.0	134.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	63	191703	25.0	23.0	M
22 1,1-Dichloroethene	96	2.718	2.718	0.000	96	249648	25.0	26.5	
23 Acetone	43	2.845	2.845	0.000	99	493260	125.0	120.0	
25 Iodomethane	142	2.906	2.906	0.000	70	403755	25.0	29.3	
26 Carbon disulfide	76	2.930	2.930	0.000	97	780984	25.0	26.0	
28 3-Chloro-1-propene	41	3.095	3.095	0.000	89	483478	25.0	26.4	
27 Methyl acetate	43	3.143	3.143	0.000	95	529004	50.0	49.0	
30 Methylene Chloride	84	3.241	3.241	0.000	95	300057	25.0	24.0	
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	98	413379	250.0	296.9	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	915696	25.0	25.9	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	91	291477	25.0	27.0	
33 Acrylonitrile	53	3.539	3.539	0.000	99	1532470	250.0	267.3	
35 Hexane	57	3.660	3.660	0.000	86	527426	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	96	587147	25.0	25.8	
37 Vinyl acetate	43	3.946	3.946	0.000	97	1505453	50.0	57.4	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	366691	25.0	29.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	329814	25.0	26.6	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	807432	125.0	128.0	
48 Chlorobromomethane	128	4.695	4.695	0.000	97	152624	25.0	25.7	
49 Tetrahydrofuran	42	4.707	4.707	0.000	90	216653	50.0	50.0	
50 Chloroform	83	4.768	4.768	0.000	93	479328	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	90	394768	25.0	26.7	
52 Cyclohexane	56	4.877	4.877	0.000	91	511618	25.0	25.7	
55 Carbon tetrachloride	117	5.011	5.011	0.000	92	355506	25.0	28.7	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	93	382867	25.0	25.4	
57 Benzene	78	5.236	5.236	0.000	96	1157329	25.0	25.5	
53 Isobutyl alcohol	43	5.260	5.260	0.000	95	408530	625.0	697.0	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	79	459615	25.0	25.1	
59 n-Heptane	43	5.406	5.406	0.000	90	464956	25.0	25.1	
62 Trichloroethene	95	5.851	5.851	0.000	97	291908	25.0	25.0	
64 Methylcyclohexane	83	5.966	5.966	0.000	92	497104	25.0	27.9	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	344279	25.0	25.2	
67 Dibromomethane	93	6.234	6.234	0.000	92	185216	25.0	26.0	
66 1,4-Dioxane	88	6.234	6.234	0.000	27	49339	500.0	521.3	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	380215	25.0	27.7	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	90	244625	25.0	26.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	88	473091	25.0	27.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1688908	125.0	123.8	
74 Toluene	92	7.086	7.086	0.000	93	725436	25.0	25.5	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.000	95	440754	25.0	28.2	
75 Ethyl methacrylate	69	7.414	7.414	0.000	84	411340	25.0	26.8	
79 1,1,2-Trichloroethane	83	7.572	7.572	0.000	93	222062	25.0	25.9	
81 Tetrachloroethene	166	7.615	7.615	0.000	85	314174	25.0	26.2	
82 1,3-Dichloropropane	76	7.724	7.724	0.000	94	471006	25.0	26.1	
80 2-Hexanone	43	7.791	7.791	0.000	90	1233754	125.0	122.8	
83 Chlorodibromomethane	129	7.962	7.962	0.000	89	281980	25.0	29.0	
84 Ethylene Dibromide	107	8.071	8.071	0.000	94	282086	25.0	26.2	
87 Chlorobenzene	112	8.539	8.539	0.000	93	817036	25.0	26.2	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1339474	25.0	26.2	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	58	278057	25.0	27.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	533364	25.0	25.6	
91 o-Xylene	106	9.178	9.178	0.000	97	511059	25.0	25.9	
92 Styrene	104	9.209	9.209	0.000	94	903340	25.0	26.6	
95 Bromoform	173	9.464	9.464	0.000	96	191974	25.0	30.9	
94 Isopropylbenzene	105	9.562	9.562	0.000	95	1335286	25.0	27.8	
101 Bromobenzene	156	9.908	9.908	0.000	95	328312	25.0	27.0	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	83	345231	25.0	26.5	M
99 N-Propylbenzene	91	9.987	9.987	0.000	98	1544968	25.0	27.7	
100 1,2,3-Trichloropropane	110	10.006	10.006	0.000	82	111918	25.0	26.1	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.018	0.000	87	133711	25.0	28.6	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	309579	25.0	25.8	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	85	1118356	25.0	26.8	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	324030	25.0	26.4	
106 tert-Butylbenzene	134	10.480	10.480	0.000	91	249243	25.0	28.1	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	1163604	25.0	27.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	1400154	25.0	28.0	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	72	637322	25.0	27.0	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	97	1226605	25.0	28.5	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	646775	25.0	26.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	1097768	25.0	28.3	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	601543	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	80	73487	25.0	29.0	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	449224	25.0	27.2	
120 Hexachlorobutadiene	225	12.768	12.768	0.000	95	221804	25.0	28.1	
121 Naphthalene	128	12.877	12.877	0.000	97	1219166	25.0	27.0	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	408554	25.0	26.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2557.D

Injection Date: 21-Jun-2018 18:24:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: CCVIS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

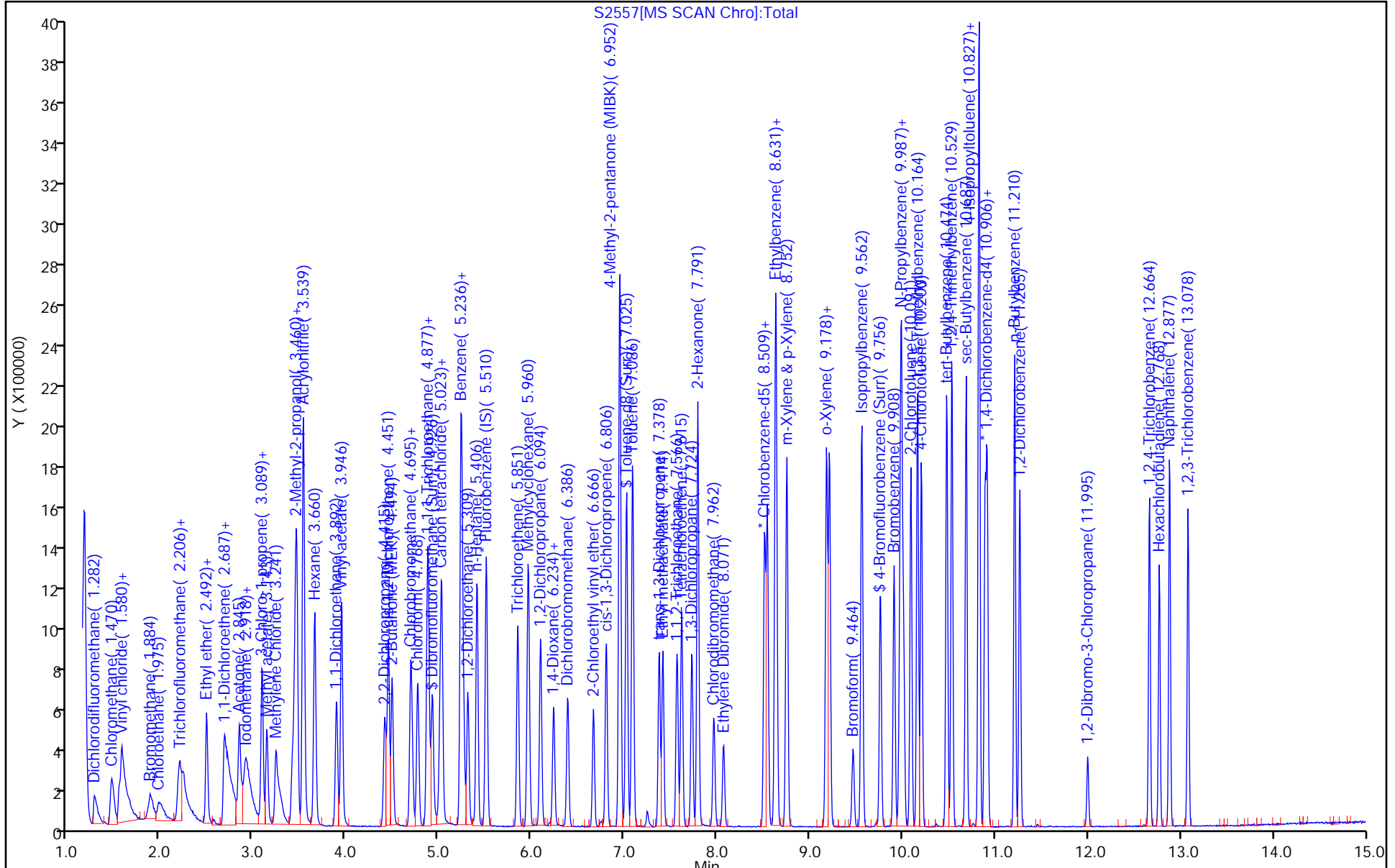
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

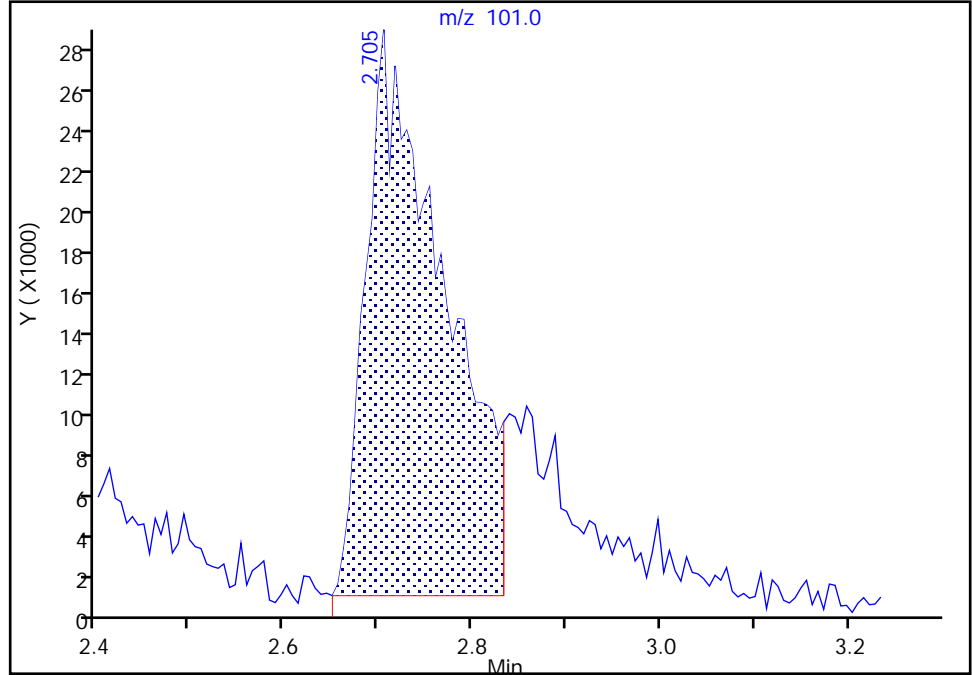
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Injection Date: 21-Jun-2018 18:24:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

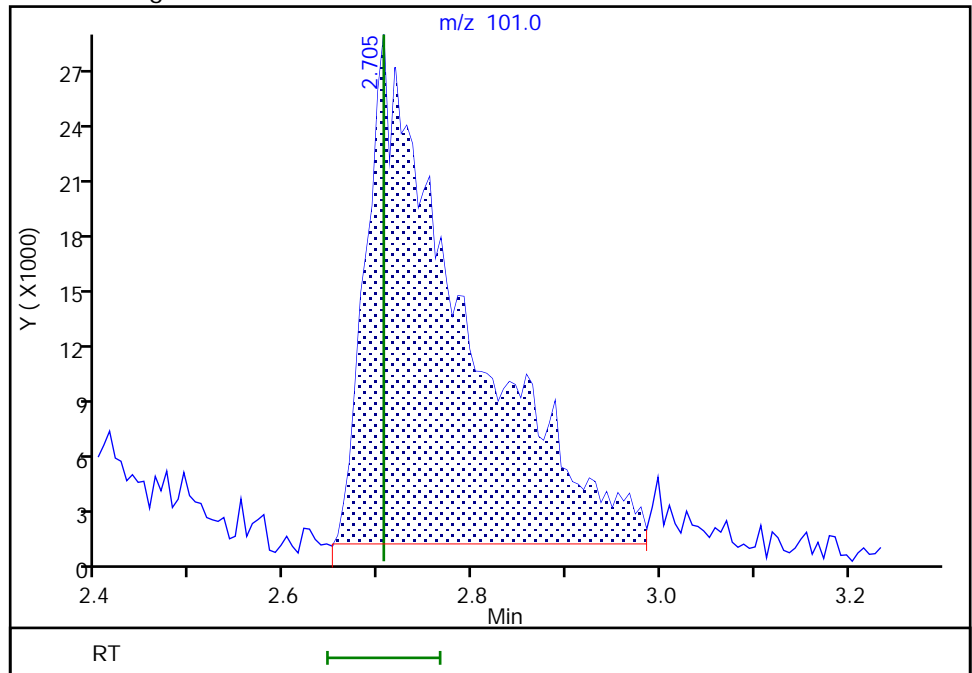
RT: 2.71
Area: 153617
Amount: 18.472860
Amount Units: ug/L

Processing Integration Results



RT: 2.71
Area: 191703
Amount: 22.960825
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 21-Jun-2018 18:44:30
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

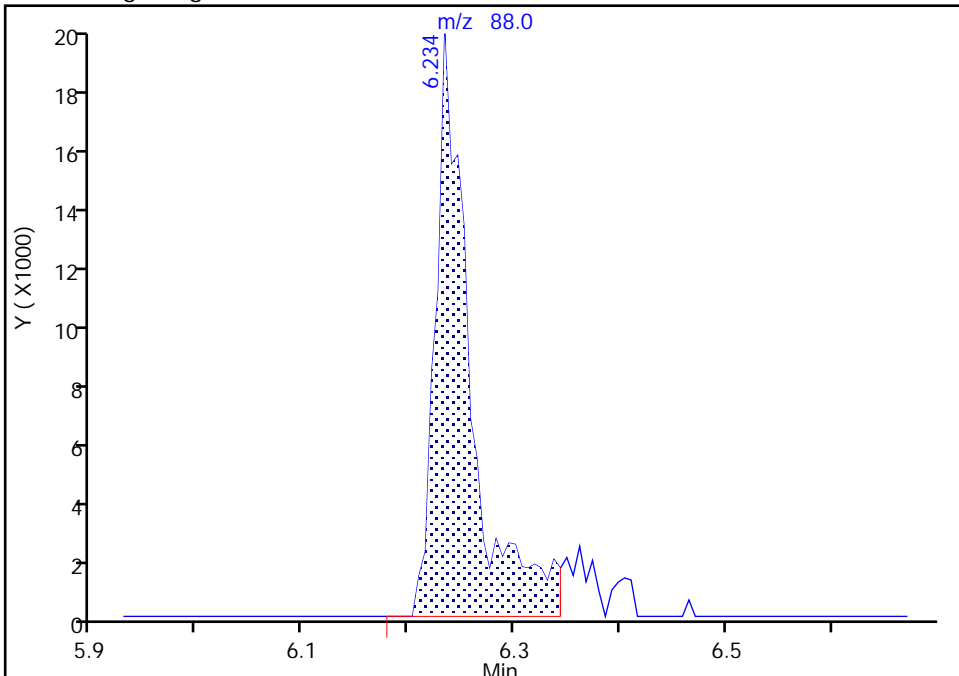
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2557.D
Injection Date: 21-Jun-2018 18:24:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

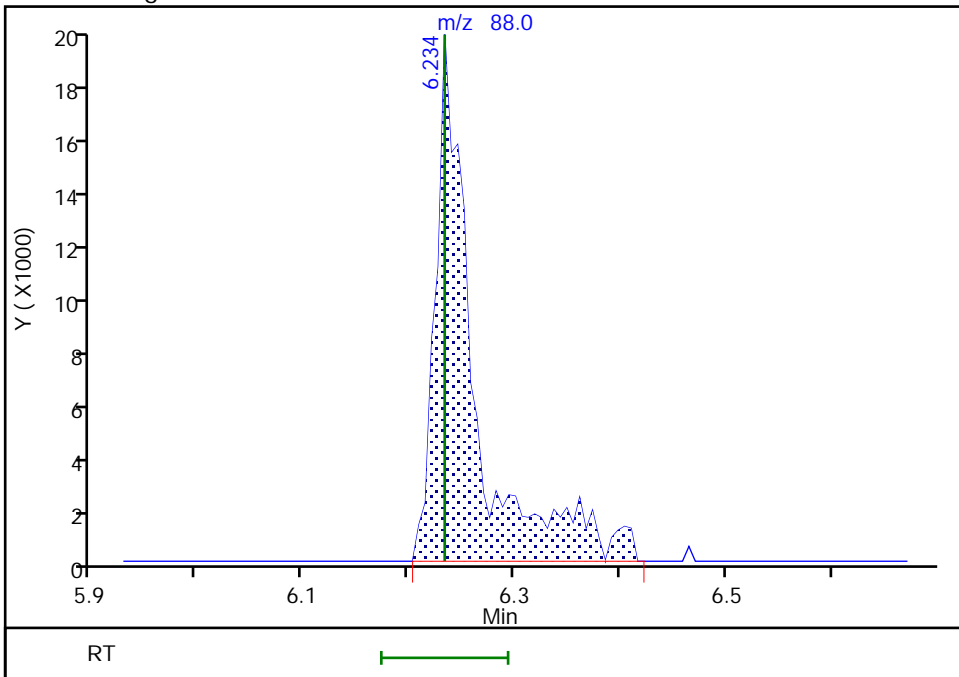
RT: 6.23
Area: 44245
Amount: 467.6769
Amount Units: ug/L

Processing Integration Results



RT: 6.23
Area: 49339
Amount: 521.3409
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 14:07:12
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

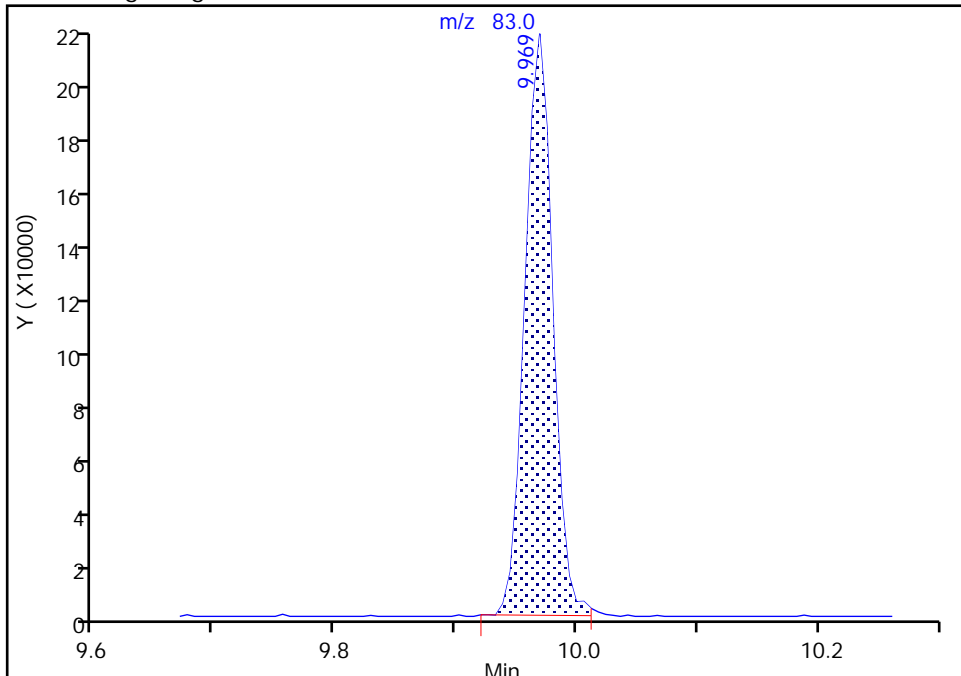
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2557.D
Injection Date: 21-Jun-2018 18:24:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

97 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Signal: 1

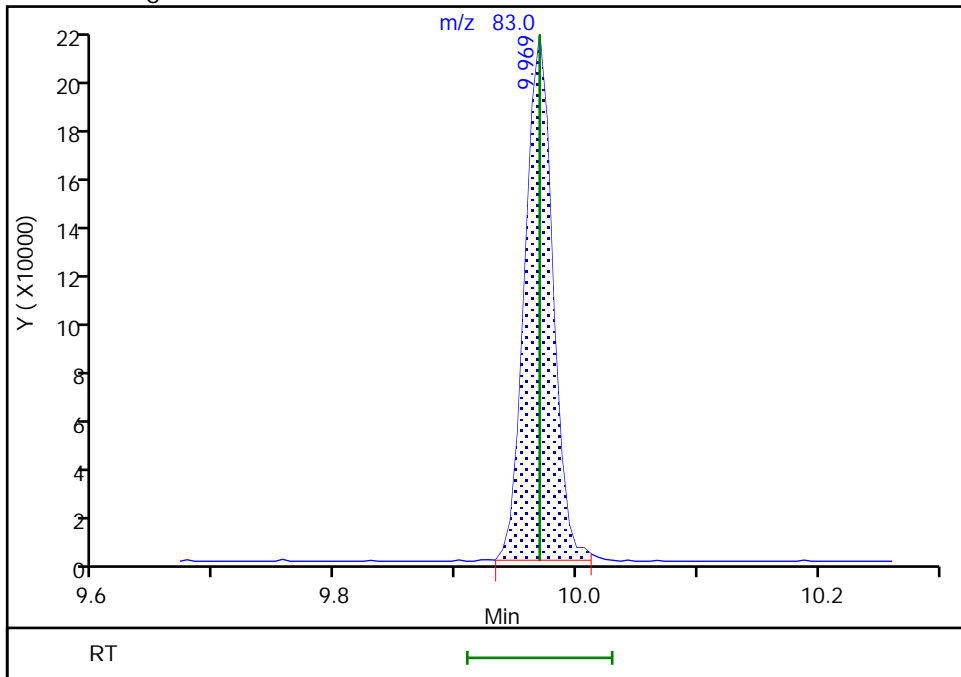
RT: 9.97
Area: 345304
Amount: 26.459494
Amount Units: ug/L

Processing Integration Results



RT: 9.97
Area: 345231
Amount: 26.453900
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 14:07:56
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 20-Jun-2018 12:54:30 ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0072482-003
 Operator ID: LH/ZV Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:32 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: HillL Date: 20-Jun-2018 13:13:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.844	3.844	0.000	0	365310	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

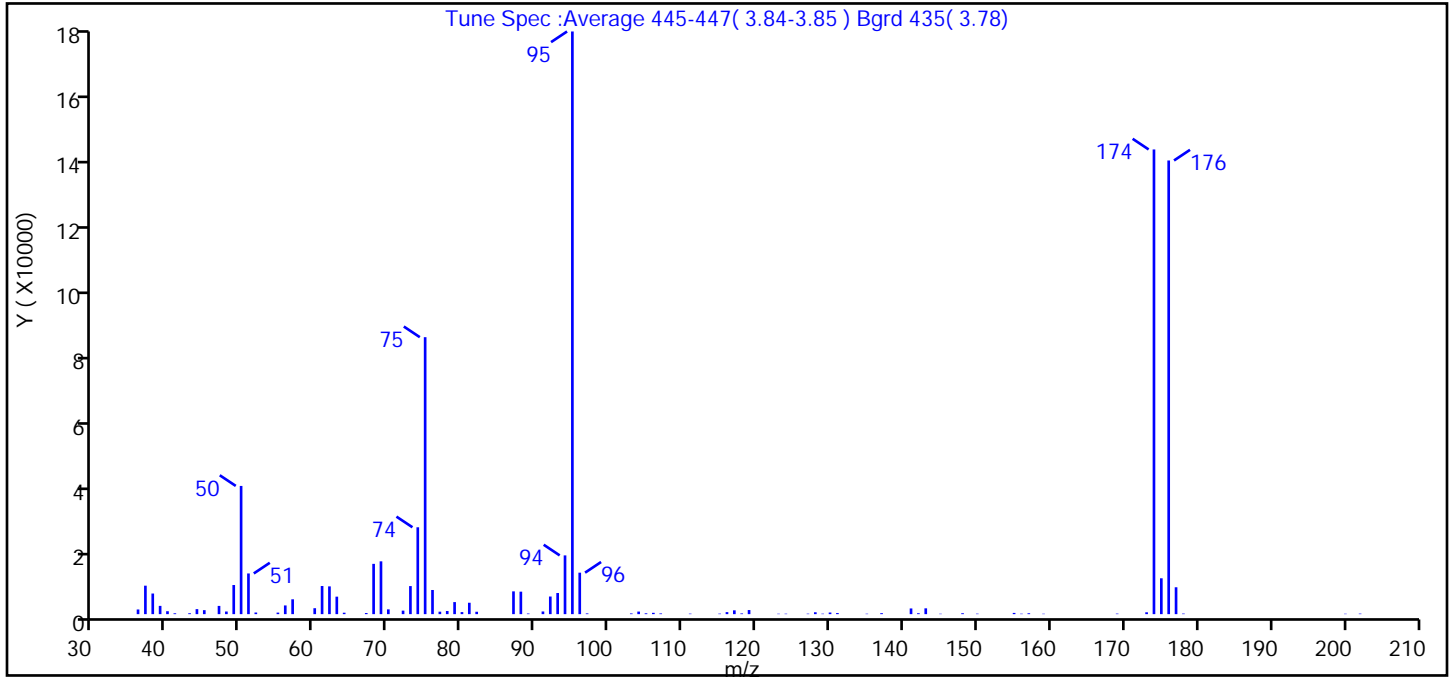
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
 Injection Date: 20-Jun-2018 12:54:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	77.9 (97.6)
177	5 to 9% of m/z 176	4.6 (5.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D\S-8260.rslt\spectra.d
Injection Date: 20-Jun-2018 12:54:30
Spectrum: Tune Spec :Average 445-447(3.84-3.85) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1407	64.00	431	94.00	17720	135.00	127
37.00	8584	67.00	332	95.00	175744	137.00	293
38.00	6219	68.00	15169	96.00	12510	141.00	1718
39.00	2493	69.00	15927	97.00	220	142.00	276
40.00	882	70.00	1443	103.00	214	143.00	1753
41.00	259	72.00	1061	104.00	774	145.00	120
43.00	272	73.00	8463	105.00	254	148.00	274
44.00	1512	74.00	26200	106.00	401	150.00	143
45.00	1201	75.00	83536	107.00	215	155.00	371
47.00	2483	76.00	7284	111.00	150	156.00	135
48.00	793	77.00	743	115.00	152	157.00	266
49.00	8783	78.00	943	116.00	614	159.00	122
50.00	38672	79.00	3636	117.00	1150	169.00	161
51.00	12273	80.00	618	118.00	217	173.00	560
52.00	492	81.00	3438	119.00	1234	174.00	140160
55.00	464	82.00	722	123.00	123	175.00	10816
56.00	2625	87.00	6872	124.00	134	176.00	136832
57.00	4479	88.00	6780	127.00	144	177.00	8108
60.00	1791	89.00	186	128.00	567	178.00	172
61.00	8484	91.00	806	129.00	141	200.00	119
62.00	8375	92.00	5315	130.00	491	202.00	159
63.00	5273	93.00	6372	131.00	333		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2556.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Jun-2018 17:57:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0072528-004
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 18:09:27 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: nowakk Date: 21-Jun-2018 18:09:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.826	3.826	0.000	0	387098	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

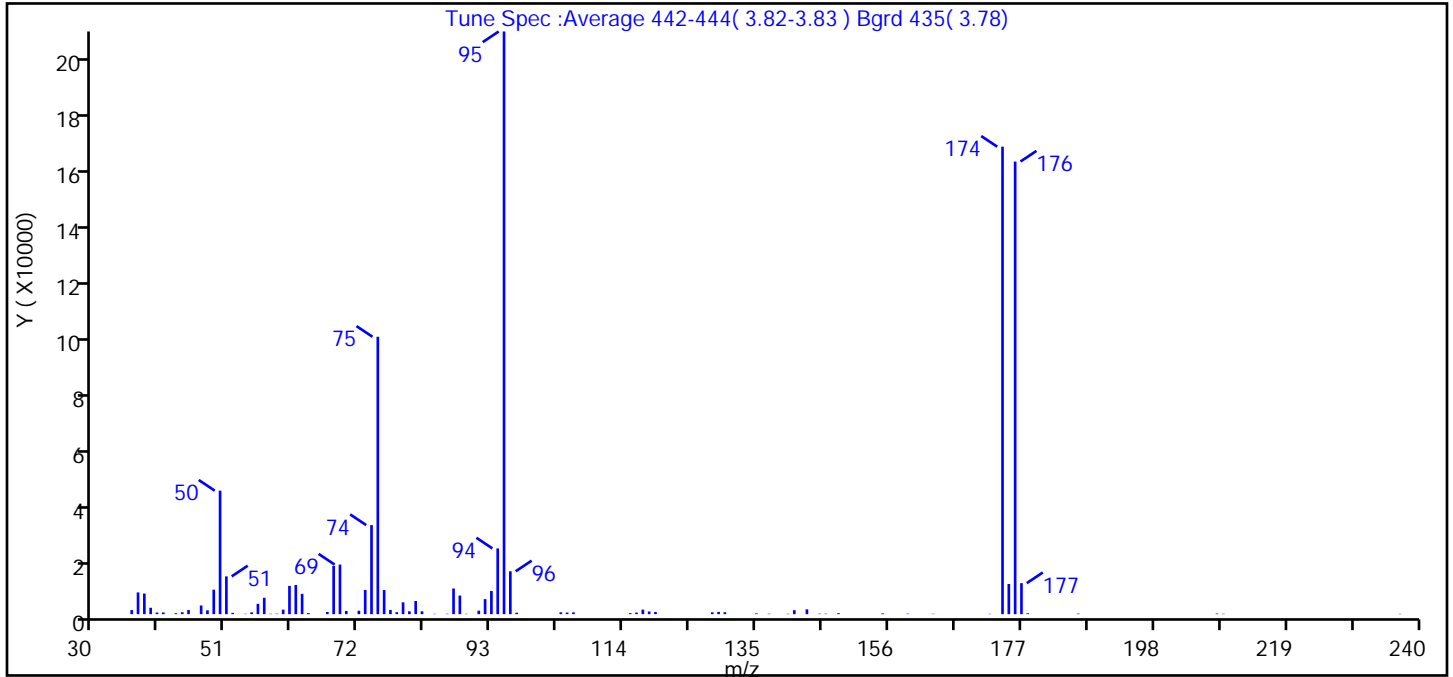
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2556.D
 Injection Date: 21-Jun-2018 17:57:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: KN ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.2
75	30 to 60% of m/z 95	47.6
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.2
175	5 to 9% of m/z 174	5.2 (6.5)
176	Greater than 95% but less than 101% of m/z 174	77.7 (96.8)
177	5 to 9% of m/z 176	5.3 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2556.D\S-8260.rslt\spectra.d
Injection Date: 21-Jun-2018 17:57:30
Spectrum: Tune Spec :Average 442-444(3.82-3.83) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1392	61.00	9731	88.00	6401	140.00	129
37.00	7477	62.00	10052	89.00	118	141.00	1376
38.00	7089	63.00	7003	91.00	1201	143.00	1657
39.00	2194	64.00	376	92.00	5182	145.00	159
40.00	551	67.00	760	93.00	7990	146.00	147
41.00	589	68.00	16600	94.00	22640	148.00	324
43.00	330	69.00	17072	95.00	200704	155.00	261
44.00	659	70.00	1091	96.00	14761	159.00	174
45.00	1418	72.00	1183	97.00	492	163.00	128
47.00	2996	73.00	8343	104.00	647	172.00	118
48.00	1313	74.00	30680	105.00	545	174.00	161024
49.00	8431	75.00	95544	106.00	612	175.00	10387
50.00	42536	76.00	8293	115.00	345	176.00	155904
51.00	13008	77.00	1450	116.00	535	177.00	10680
52.00	437	78.00	666	117.00	1555	178.00	304
54.00	126	79.00	4076	118.00	913	186.00	195
55.00	614	80.00	989	119.00	749	208.00	208
56.00	3547	81.00	4537	128.00	637	209.00	143
57.00	5639	82.00	979	129.00	777	237.00	118
58.00	138	84.00	118	130.00	662		
59.00	151	86.00	137	135.00	252		
60.00	1548	87.00	8834	137.00	141		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420936/11
 Matrix: Water Lab File ID: S2563.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 20:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420936/11
 Matrix: Water Lab File ID: S2563.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 20:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420936/11
 Matrix: Water Lab File ID: S2563.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 20:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2563.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Jun-2018 20:39:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0072528-011
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 14:14:50 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: carrolln Date: 22-Jun-2018 14:16:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	202766	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	405806	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	363143	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	57	244050	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	162862	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	987306	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	294489	25.0	24.3	
10 Dichlorodifluoromethane	85		1.282					ND	
11 Chlorodifluoromethane	51		1.306					ND	
12 Chloromethane	50		1.470					ND	
13 Vinyl chloride	62		1.549					ND	
151 Butadiene	54		1.580					ND	
14 Bromomethane	94		1.890					ND	
15 Chloroethane	64		1.994					ND	
17 Trichlorofluoromethane	101		2.188					ND	
18 Ethyl ether	59		2.492					ND	
148 Ethanol	45		2.523					ND	
19 Propene oxide	58		2.584					ND	
20 Acrolein	56		2.681					ND	U
21 1,1,2-Trichloro-1,2,2-trif	101		2.705					ND	
22 1,1-Dichloroethene	96		2.718					ND	
23 Acetone	43		2.845					ND	
25 Iodomethane	142		2.906					ND	
26 Carbon disulfide	76		2.930					ND	
24 Isopropyl alcohol	45		3.040					ND	
28 3-Chloro-1-propene	41		3.095					ND	
27 Methyl acetate	43		3.143					ND	
29 Acetonitrile	40		3.162					ND	U
31 2-Methyl-2-propanol	59		3.417					ND	
32 Methyl tert-butyl ether	73		3.454					ND	
34 trans-1,2-Dichloroethene	96		3.472					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Acrylonitrile	53		3.539					ND	
35 Hexane	57		3.660					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.892					ND	
36 Isopropyl ether	45		3.904					ND	
37 Vinyl acetate	43		3.946					ND	
40 2-Chloro-1,3-butadiene	53		3.946					ND	
38 1,1-Dimethoxyethane	75		3.983					ND	
41 Tert-butyl ethyl ether	59		4.245					ND	
44 2,2-Dichloropropane	77		4.415					ND	
45 cis-1,2-Dichloroethene	96		4.457					ND	
43 2-Butanone (MEK)	43		4.494					ND	
42 Ethyl acetate	43		4.524					ND	
46 Propionitrile	54		4.603					ND	
48 Chlorobromomethane	128		4.695					ND	
49 Tetrahydrofuran	42		4.707					ND	
47 Methacrylonitrile	41		4.713					ND	
50 Chloroform	83		4.768					ND	
51 1,1,1-Trichloroethane	97		4.877					ND	
52 Cyclohexane	56		4.877					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		5.011					ND	
54 1,1-Dichloropropene	75		5.029					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.224					ND	
57 Benzene	78		5.236					ND	
53 Isobutyl alcohol	43		5.260					ND	
56 Tert-amyl methyl ether	73		5.309					ND	
58 1,2-Dichloroethane	62		5.309					ND	
147 t-Amyl alcohol	59		5.315					ND	
59 n-Heptane	43		5.406					ND	
1 1,4-Difluorobenzene	114		5.619					ND	
62 Trichloroethene	95		5.851					ND	
60 n-Butanol	56		5.881					ND	
64 Methylcyclohexane	83		5.966					ND	
142 Ethyl acrylate	55		5.978					ND	
65 1,2-Dichloropropane	63		6.094					ND	
67 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.234					ND	
68 Dichlorobromomethane	83		6.386					ND	
70 2-Nitropropane	43		6.648					ND	U
69 2-Chloroethyl vinyl ether	63		6.666					ND	
71 Epichlorohydrin	57		6.763					ND	
72 cis-1,3-Dichloropropene	75		6.806					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952					ND	
74 Toluene	92		7.086					ND	
76 2-Methylthiophene	97		7.225					ND	
77 trans-1,3-Dichloropropene	75		7.378					ND	
78 3-Methylthiophene	97		7.390					ND	
75 Ethyl methacrylate	69		7.414					ND	
79 1,1,2-Trichloroethane	83		7.572					ND	
81 Tetrachloroethene	166		7.615					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
82 1,3-Dichloropropane	76		7.724					ND	
80 2-Hexanone	43		7.791					ND	
155 n-Butyl acetate	43		7.895					ND	
83 Chlorodibromomethane	129		7.962					ND	
84 Ethylene Dibromide	107		8.071					ND	
146 1-Chlorohexane	55		8.485					ND	U
85 3-Chlorobenzotrifluoride	180		8.503					ND	
87 Chlorobenzene	112		8.539					ND	
86 4-Chlorobenzotrifluoride	180		8.570					ND	
88 Ethylbenzene	91		8.631					ND	
89 1,1,1,2-Tetrachloroethane	131		8.643					ND	
90 m-Xylene & p-Xylene	106		8.752					ND	
91 o-Xylene	106		9.178					ND	
92 Styrene	104		9.209					ND	
95 Bromoform	173		9.464					ND	
93 2-Chlorobenzotrifluoride	180		9.489					ND	
94 Isopropylbenzene	105		9.562					ND	
96 Cyclohexanone	55		9.744					ND	
101 Bromobenzene	156		9.908					ND	
97 1,1,2,2-Tetrachloroethane	83		9.969					ND	
99 N-Propylbenzene	91		9.987					ND	
100 1,2,3-Trichloropropane	110		10.006					ND	
98 trans-1,4-Dichloro-2-buten	53		10.018					ND	
103 2-Chlorotoluene	126		10.091					ND	
104 3-Chlorotoluene	126		10.158					ND	
102 1,3,5-Trimethylbenzene	105		10.164					ND	
105 4-Chlorotoluene	126		10.200					ND	
106 tert-Butylbenzene	134		10.480					ND	
107 1,2,4-Trimethylbenzene	105		10.529					ND	
108 Pentachloroethane	167		10.541					ND	
111 1,3-Dichlorobenzene	146		10.827					ND	
110 4-Isopropyltoluene	119		10.827					ND	
114 Dicyclopentadiene	66		10.888					ND	
113 1,4-Dichlorobenzene	146		10.912					ND	
112 1,2,3-Trimethylbenzene	105		10.936					ND	
150 Benzyl chloride	126		11.058					ND	
115 n-Butylbenzene	91		11.210					ND	
116 1,2-Dichlorobenzene	146		11.265					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.123					ND	
119 1,2,4-Trichlorobenzene	180		12.664					ND	
120 Hexachlorobutadiene	225		12.768					ND	
121 Naphthalene	128		12.877					ND	
122 1,2,3-Trichlorobenzene	180		13.078					ND	
149 2-Methylnaphthalene	142		13.790					ND	
136 Nitrobenzene	77		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2563.D

Injection Date: 21-Jun-2018 20:39:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: MB

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

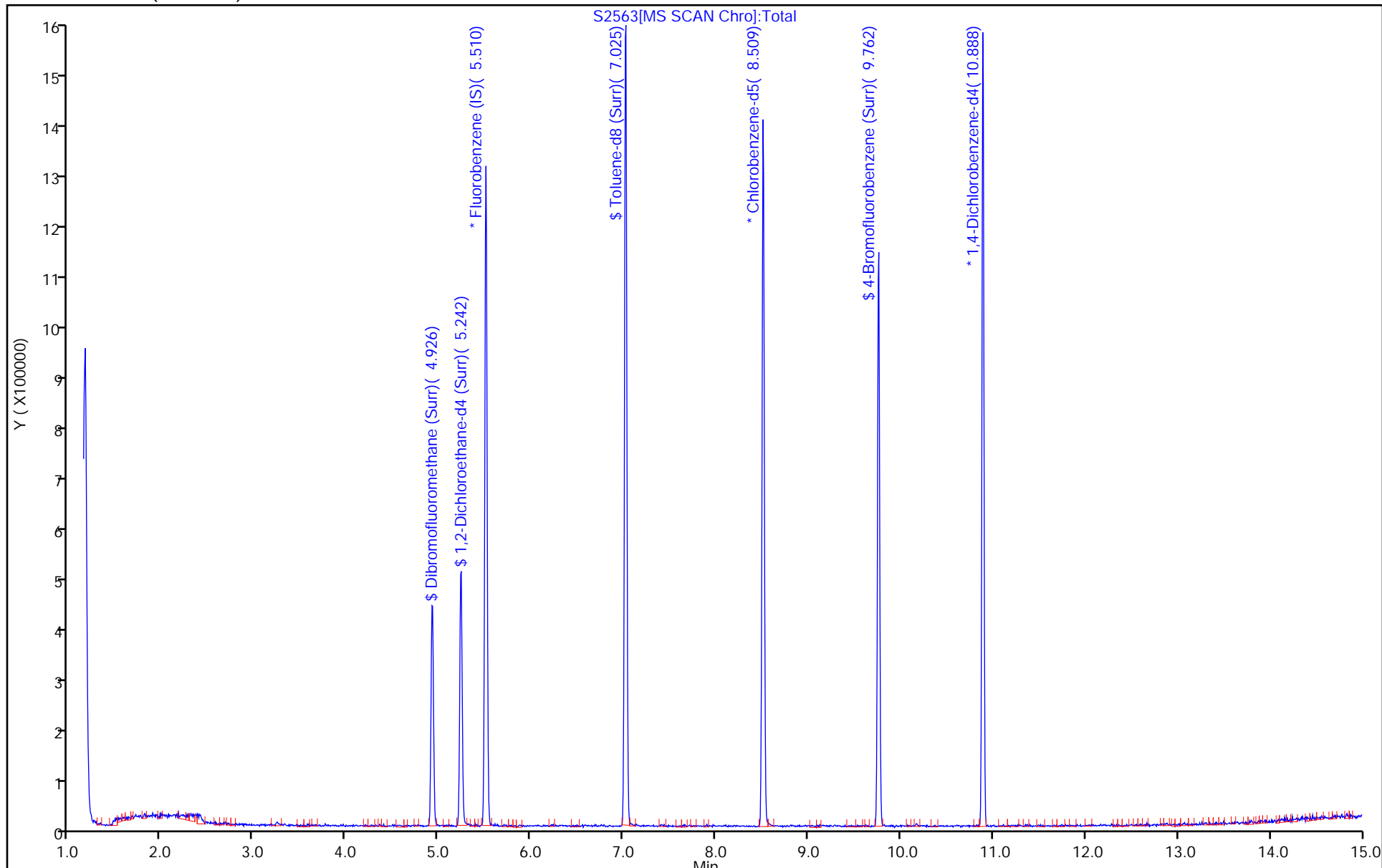
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-420936/9
 Matrix: Water Lab File ID: S2561.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 19:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.5		1.0	0.21
79-00-5	1,1,2-Trichloroethane	27.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.3		1.0	0.31
75-34-3	1,1-Dichloroethane	27.0		1.0	0.38
75-35-4	1,1-Dichloroethene	26.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	27.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	27.6		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.3		1.0	0.79
107-06-2	1,2-Dichloroethane	25.7		1.0	0.21
78-87-5	1,2-Dichloropropane	26.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.6		1.0	0.84
78-93-3	2-Butanone (MEK)	129		10	1.3
591-78-6	2-Hexanone	124		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	124		5.0	2.1
67-64-1	Acetone	119		10	3.0
71-43-2	Benzene	26.8		1.0	0.41
75-27-4	Bromodichloromethane	29.0		1.0	0.39
75-25-2	Bromoform	31.3		1.0	0.26
74-83-9	Bromomethane	25.8		1.0	0.69
75-15-0	Carbon disulfide	28.1		1.0	0.19
56-23-5	Carbon tetrachloride	29.3		1.0	0.27
108-90-7	Chlorobenzene	27.2		1.0	0.75
124-48-1	Dibromochloromethane	29.9		1.0	0.32
75-00-3	Chloroethane	26.6		1.0	0.32
67-66-3	Chloroform	26.0		1.0	0.34
74-87-3	Chloromethane	25.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.2		1.0	0.36
110-82-7	Cyclohexane	29.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	30.6		1.0	0.68
100-41-4	Ethylbenzene	27.9		1.0	0.74
106-93-4	1,2-Dibromoethane	26.0		1.0	0.73
98-82-8	Isopropylbenzene	27.8		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-420936/9
 Matrix: Water Lab File ID: S2561.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/21/2018 19:34
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	49.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.2		1.0	0.16
108-87-2	Methylcyclohexane	29.0		1.0	0.16
75-09-2	Methylene Chloride	25.2		1.0	0.44
100-42-5	Styrene	27.6		1.0	0.73
127-18-4	Tetrachloroethene	27.9		1.0	0.36
108-88-3	Toluene	27.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.9		1.0	0.37
79-01-6	Trichloroethene	27.3		1.0	0.46
75-69-4	Trichlorofluoromethane	31.5		1.0	0.88
75-01-4	Vinyl chloride	28.8		1.0	0.90
1330-20-7	Xylenes, Total	54.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2561.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Jun-2018 19:34:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0072528-009
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 14:14:50 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk Date: 21-Jun-2018 20:03:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	199546	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	86	395432	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	53	373782	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	56	251945	25.0	26.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	154620	25.0	24.7	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	88	996280	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	309762	25.0	26.2	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	294247	25.0	30.6	
12 Chloromethane	50	1.470	1.470	0.000	98	395293	25.0	25.9	
13 Vinyl chloride	62	1.549	1.549	0.000	75	390968	25.0	28.8	
151 Butadiene	54	1.580	1.580	0.000	82	378049	25.0	26.7	
14 Bromomethane	94	1.878	1.890	-0.012	91	187703	25.0	25.8	
15 Chloroethane	64	1.975	1.994	-0.019	96	218545	25.0	26.6	
17 Trichlorofluoromethane	101	2.188	2.188	0.000	88	405698	25.0	31.5	
16 Dichlorofluoromethane	67	2.200	2.206	-0.006	95	437431	25.0	24.3	
18 Ethyl ether	59	2.492	2.492	0.000	90	302032	25.0	26.4	
20 Acrolein	56	2.681	2.681	0.000	94	274495	125.0	125.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	-0.006	59	205789	25.0	26.3	M
22 1,1-Dichloroethene	96	2.717	2.718	-0.001	96	233196	25.0	26.5	
23 Acetone	43	2.845	2.845	0.000	100	458588	125.0	119.5	
25 Iodomethane	142	2.894	2.906	-0.012	96	376931	25.0	29.2	
26 Carbon disulfide	76	2.918	2.930	-0.012	98	790873	25.0	28.1	
28 3-Chloro-1-propene	41	3.095	3.095	0.000	89	446131	25.0	26.1	
27 Methyl acetate	43	3.143	3.143	0.000	95	494995	50.0	49.1	
30 Methylene Chloride	84	3.247	3.241	0.006	96	293259	25.0	25.2	
31 2-Methyl-2-propanol	59	3.423	3.417	0.006	96	415574	250.0	319.5	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	865551	25.0	26.2	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	92	277228	25.0	27.5	
33 Acrylonitrile	53	3.539	3.539	0.000	98	1401919	250.0	261.7	
35 Hexane	57	3.660	3.660	0.000	87	514930	25.0	27.7	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	96	574612	25.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.946	3.946	0.000	97	1329217	50.0	54.2	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	359775	25.0	30.6	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	84	308852	25.0	26.6	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	761965	125.0	129.3	
48 Chlorobromomethane	128	4.688	4.695	-0.007	94	152206	25.0	27.5	
49 Tetrahydrofuran	42	4.707	4.707	0.000	88	205824	50.0	50.8	
50 Chloroform	83	4.774	4.768	0.006	84	482000	25.0	26.0	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	89	385906	25.0	27.9	
52 Cyclohexane	56	4.877	4.877	0.000	91	541416	25.0	29.1	
55 Carbon tetrachloride	117	5.017	5.011	0.006	86	338988	25.0	29.3	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	96	388882	25.0	27.6	
57 Benzene	78	5.236	5.236	0.000	96	1132881	25.0	26.8	
53 Isobutyl alcohol	43	5.260	5.260	0.000	93	387576	625.0	707.8	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	79	438769	25.0	25.7	
59 n-Heptane	43	5.406	5.406	0.000	91	450806	25.0	26.1	
62 Trichloroethene	95	5.850	5.851	-0.001	97	297621	25.0	27.3	
64 Methylcyclohexane	83	5.966	5.966	0.000	91	482975	25.0	29.0	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	98	333646	25.0	26.1	
67 Dibromomethane	93	6.234	6.234	0.000	92	174387	25.0	26.2	
66 1,4-Dioxane	88	6.240	6.234	0.006	40	62589	500.0	709.8	
68 Dichlorobromomethane	83	6.386	6.386	0.000	99	372737	25.0	29.0	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	90	224777	25.0	26.4	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	455175	25.0	28.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.945	6.952	-0.007	94	1561567	125.0	123.7	
74 Toluene	92	7.085	7.086	-0.001	94	716126	25.0	27.2	
77 trans-1,3-Dichloropropene	75	7.377	7.378	-0.001	94	433033	25.0	29.9	
75 Ethyl methacrylate	69	7.414	7.414	0.000	83	391238	25.0	27.6	
79 1,1,2-Trichloroethane	83	7.566	7.572	-0.006	93	219260	25.0	27.7	
81 Tetrachloroethene	166	7.621	7.615	0.006	84	310066	25.0	27.9	
82 1,3-Dichloropropane	76	7.724	7.724	0.000	92	452811	25.0	27.1	
80 2-Hexanone	43	7.791	7.791	0.000	90	1151222	125.0	123.9	
83 Chlorodibromomethane	129	7.961	7.962	-0.001	92	268925	25.0	29.9	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	259789	25.0	26.0	
87 Chlorobenzene	112	8.539	8.539	0.000	93	782718	25.0	27.2	
88 Ethylbenzene	91	8.631	8.631	0.000	99	1323254	25.0	27.9	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.643	-0.006	47	270752	25.0	29.1	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	525366	25.0	27.3	
91 o-Xylene	106	9.178	9.178	0.000	98	504540	25.0	27.6	
92 Styrene	104	9.209	9.209	0.000	93	867108	25.0	27.6	
95 Bromoform	173	9.464	9.464	0.000	96	180163	25.0	31.3	
94 Isopropylbenzene	105	9.561	9.562	-0.001	95	1307851	25.0	27.8	
101 Bromobenzene	156	9.908	9.908	0.000	96	316429	25.0	26.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	72	339103	25.0	26.5	
99 N-Propylbenzene	91	9.981	9.987	-0.006	99	1501171	25.0	27.5	
100 1,2,3-Trichloropropane	110	9.999	10.006	-0.007	72	114725	25.0	27.2	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.018	-0.006	67	122159	25.0	26.7	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	321652	25.0	27.4	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	85	1115298	25.0	27.3	
105 4-Chlorotoluene	126	10.200	10.200	0.000	97	324495	25.0	26.9	
106 tert-Butylbenzene	134	10.480	10.480	0.000	91	248482	25.0	28.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1136559	25.0	27.2	
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	1382504	25.0	28.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	72	607504	25.0	26.2	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1200584	25.0	28.5	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	628204	25.0	26.6	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1060398	25.0	27.9	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	600612	25.0	26.3	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	77	68477	25.0	27.6	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	444413	25.0	27.4	
120 Hexachlorobutadiene	225	12.767	12.768	-0.001	95	220839	25.0	28.5	
121 Naphthalene	128	12.877	12.877	0.000	97	1200531	25.0	27.1	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	421141	25.0	28.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2561.D

Injection Date: 21-Jun-2018 19:34:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: LCS

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

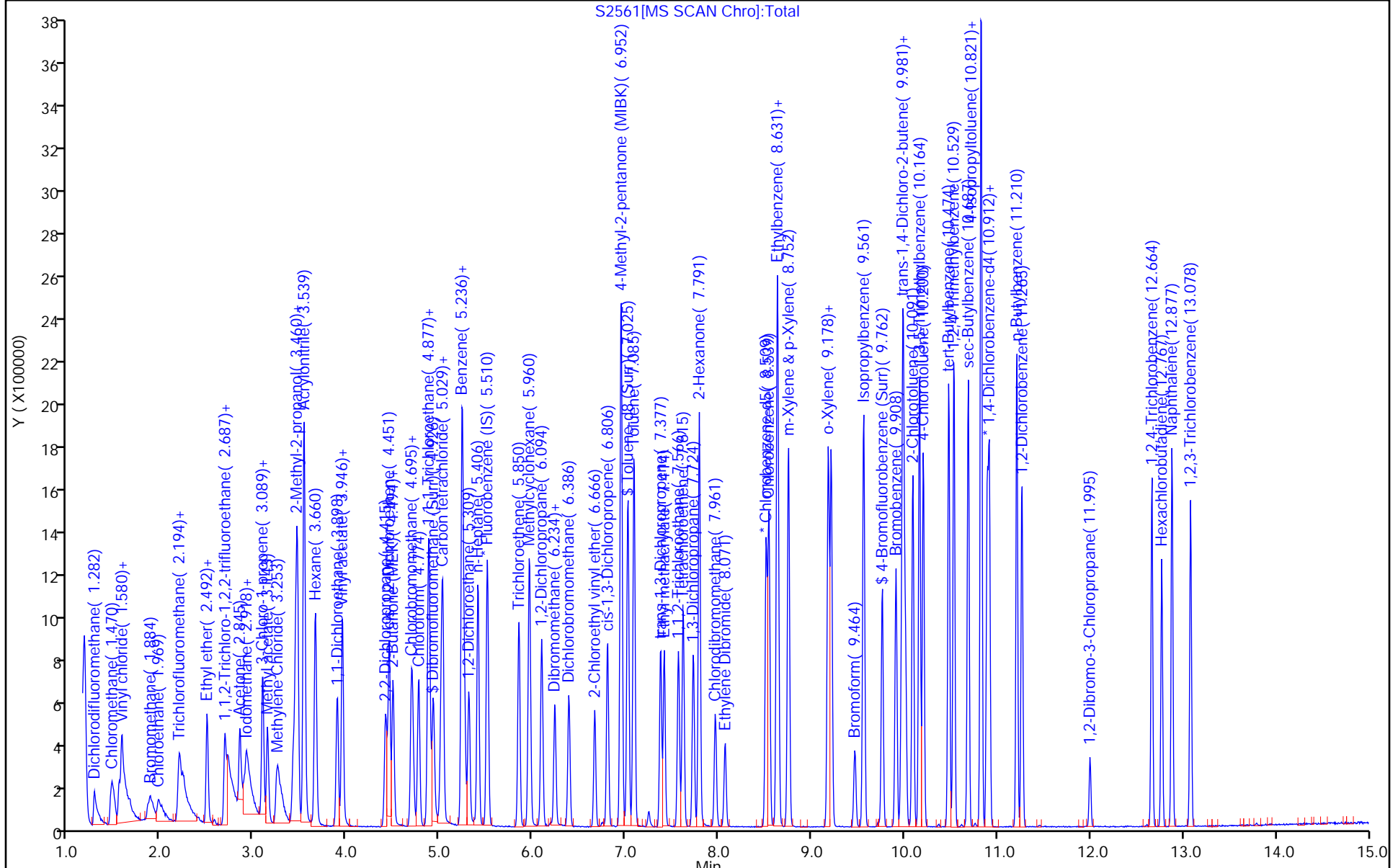
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

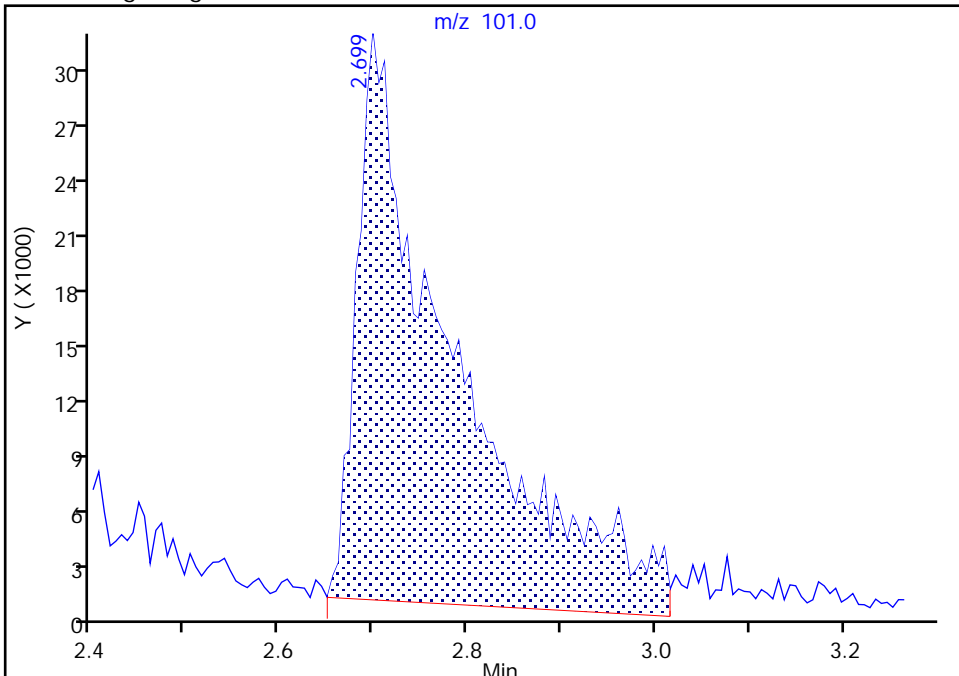
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Injection Date: 21-Jun-2018 19:34:30 Instrument ID: HP5973S
Lims ID: LCS
Client ID:
Operator ID: KN ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

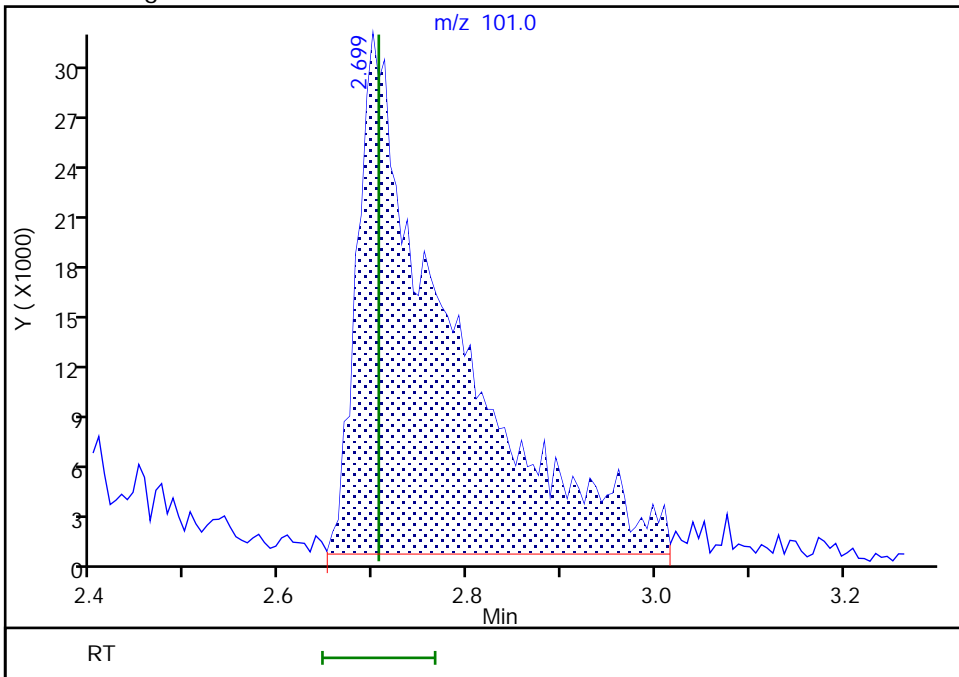
RT: 2.70
Area: 214117
Amount: 27.376276
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 205789
Amount: 26.325916
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 14:13:13
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 271 of 473

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 MS Lab Sample ID: 480-137434-2 MS
 Matrix: Water Lab File ID: S2582.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 04:12
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	159		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	134		5.0	1.1
79-00-5	1,1,2-Trichloroethane	136		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	146		5.0	1.6
75-34-3	1,1-Dichloroethane	165		5.0	1.9
75-35-4	1,1-Dichloroethene	134		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	134		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	133		5.0	2.0
95-50-1	1,2-Dichlorobenzene	128		5.0	4.0
107-06-2	1,2-Dichloroethane	128		5.0	1.1
78-87-5	1,2-Dichloropropane	125		5.0	3.6
541-73-1	1,3-Dichlorobenzene	130		5.0	3.9
106-46-7	1,4-Dichlorobenzene	132		5.0	4.2
78-93-3	2-Butanone (MEK)	646		50	6.6
591-78-6	2-Hexanone	642		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	653		25	11
67-64-1	Acetone	641		50	15
71-43-2	Benzene	156		5.0	2.1
75-27-4	Bromodichloromethane	142		5.0	2.0
75-25-2	Bromoform	151		5.0	1.3
74-83-9	Bromomethane	126		5.0	3.5
75-15-0	Carbon disulfide	143		5.0	0.95
56-23-5	Carbon tetrachloride	145		5.0	1.4
108-90-7	Chlorobenzene	138		5.0	3.8
124-48-1	Dibromochloromethane	154		5.0	1.6
75-00-3	Chloroethane	132		5.0	1.6
67-66-3	Chloroform	130		5.0	1.7
74-87-3	Chloromethane	127		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	254		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	133		5.0	1.8
110-82-7	Cyclohexane	144		5.0	0.90
75-71-8	Dichlorodifluoromethane	153		5.0	3.4
100-41-4	Ethylbenzene	151		5.0	3.7
106-93-4	1,2-Dibromoethane	135		5.0	3.7
98-82-8	Isopropylbenzene	165		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 MS Lab Sample ID: 480-137434-2 MS
 Matrix: Water Lab File ID: S2582.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 04:12
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	256		13	6.5
1634-04-4	Methyl tert-butyl ether	186		5.0	0.80
108-87-2	Methylcyclohexane	150		5.0	0.80
75-09-2	Methylene Chloride	127		5.0	2.2
100-42-5	Styrene	142		5.0	3.7
127-18-4	Tetrachloroethene	142		5.0	1.8
108-88-3	Toluene	147		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	138		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	142		5.0	1.9
79-01-6	Trichloroethene	135		5.0	2.3
75-69-4	Trichlorofluoromethane	124		5.0	4.4
75-01-4	Vinyl chloride	223		5.0	4.5
1330-20-7	Xylenes, Total	410		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2582.D
 Lims ID: 480-137434-C-2 MS
 Client ID: LAB-SBW16
 Sample Type: MS
 Inject. Date: 22-Jun-2018 04:12:30 ALS Bottle#: 30 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137434-c-2 ms
 Misc. Info.: 480-0072528-031
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 15:40:03 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: carrolln

Date: 22-Jun-2018 15:40:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	198451	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	389924	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	60	374860	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.932	0.000	55	233667	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	156498	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	84	972105	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	294464	25.0	25.2	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	292840	25.0	30.6	
12 Chloromethane	50	1.458	1.470	-0.012	93	386940	25.0	25.5	
13 Vinyl chloride	62	1.543	1.556	-0.006	93	602435	25.0	44.6	
14 Bromomethane	94	1.878	1.890	-0.012	92	182888	25.0	25.3	
15 Chloroethane	64	1.969	1.981	-0.025	98	215556	25.0	26.4	
17 Trichlorofluoromethane	101	2.188	2.188	0.000	83	318099	25.0	24.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	-0.012	54	226700	25.0	29.1	M
22 1,1-Dichloroethene	96	2.717	2.718	-0.001	93	234321	25.0	26.7	
23 Acetone	43	2.845	2.845	0.000	99	489821	125.0	128.3	
26 Carbon disulfide	76	2.918	2.930	-0.012	98	800329	25.0	28.6	
27 Methyl acetate	43	3.143	3.143	0.000	95	512222	50.0	51.1	
30 Methylene Chloride	84	3.247	3.259	0.006	94	293225	25.0	25.3	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	1225248	25.0	37.3	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	81	277826	25.0	27.7	
39 1,1-Dichloroethane	63	3.892	3.892	0.000	96	698538	25.0	33.1	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	84	585669	25.0	50.8	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	757054	125.0	129.1	
50 Chloroform	83	4.774	4.774	0.006	93	477758	25.0	25.9	M
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	95	437095	25.0	31.8	
52 Cyclohexane	56	4.877	4.877	0.000	91	532027	25.0	28.8	
55 Carbon tetrachloride	117	5.011	5.011	0.000	90	333372	25.0	29.0	
57 Benzene	78	5.236	5.230	0.000	97	1310734	25.0	31.1	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	79	435575	25.0	25.6	
62 Trichloroethene	95	5.850	5.850	-0.001	97	293263	25.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	92	497132	25.0	30.1	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	317928	25.0	25.0	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	361980	25.0	28.3	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	427149	25.0	26.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1625044	125.0	130.5	
74 Toluene	92	7.085	7.086	-0.001	94	762846	25.0	29.4	
77 trans-1,3-Dichloropropene	75	7.377	7.378	-0.001	94	405199	25.0	28.4	
79 1,1,2-Trichloroethane	83	7.566	7.572	-0.006	95	212452	25.0	27.2	
81 Tetrachloroethene	166	7.615	7.615	0.000	89	310708	25.0	28.4	
80 2-Hexanone	43	7.791	7.791	0.000	91	1176182	125.0	128.4	
83 Chlorodibromomethane	129	7.961	7.962	-0.001	91	273054	25.0	30.7	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	96	266461	25.0	27.1	
87 Chlorobenzene	112	8.539	8.539	0.000	93	783752	25.0	27.6	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1410752	25.0	30.2	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	994465		52.3	
91 o-Xylene	106	9.178	9.178	0.000	98	534109		29.6	
92 Styrene	104	9.209	9.209	0.000	94	876096	25.0	28.3	
95 Bromoform	173	9.464	9.464	0.000	97	170762	25.0	30.1	
94 Isopropylbenzene	105	9.561	9.562	-0.001	96	1563746	25.0	33.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	68	345048	25.0	26.9	
111 1,3-Dichlorobenzene	146	10.821	10.827	-0.006	71	606232	25.0	26.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	626028	25.0	26.4	
116 1,2-Dichlorobenzene	146	11.265	11.271	0.000	92	587517	25.0	25.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	83	66076	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	435158	25.0	26.8	
S 124 Xylenes, Total	1				0			81.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2582.D

Injection Date: 22-Jun-2018 04:12:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: 480-137434-C-2 MS

Worklist Smp#: 31

Client ID: LAB-SBW16

Purge Vol: 5.000 mL

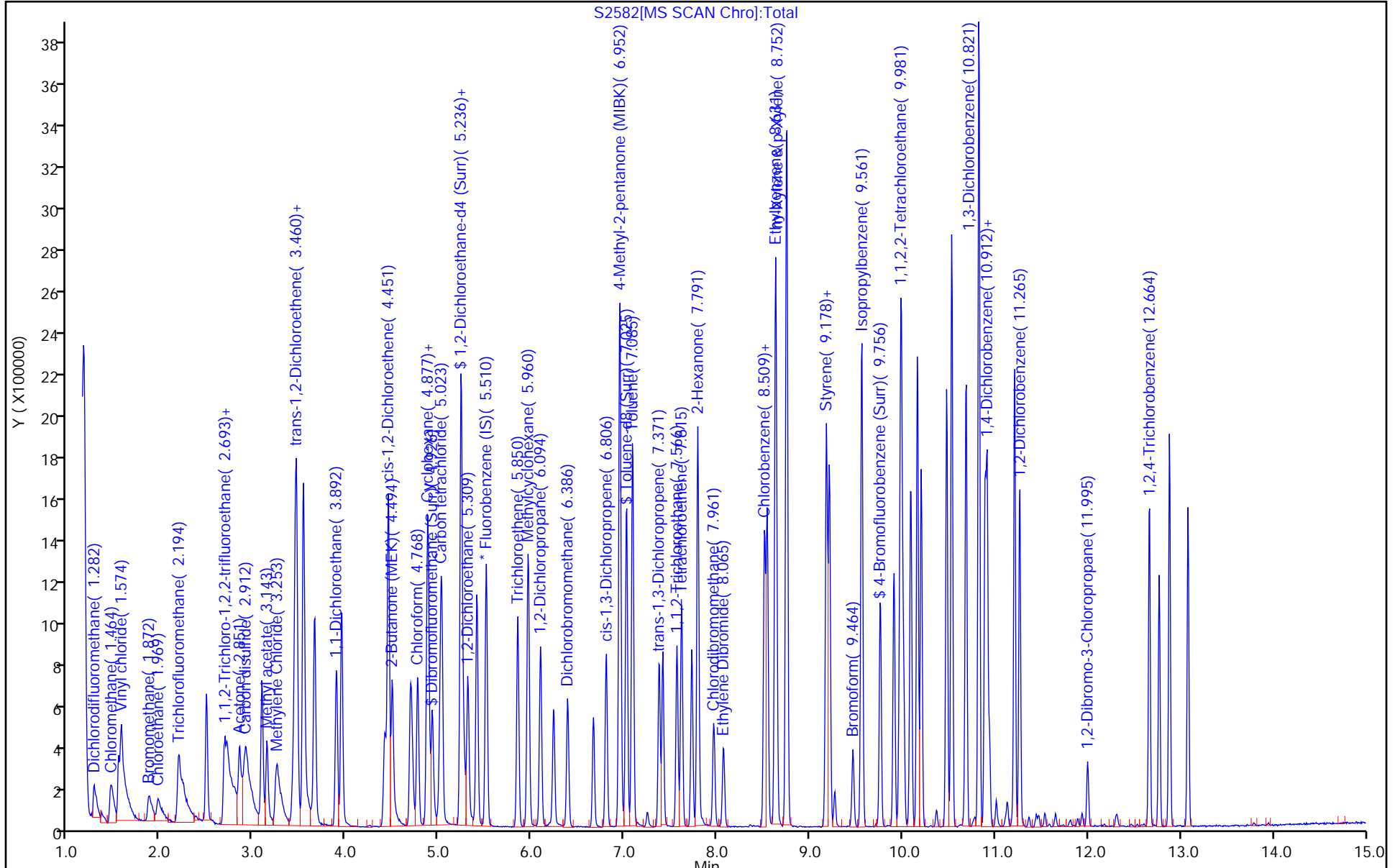
Dil. Factor: 5.0000

ALS Bottle#: 30

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

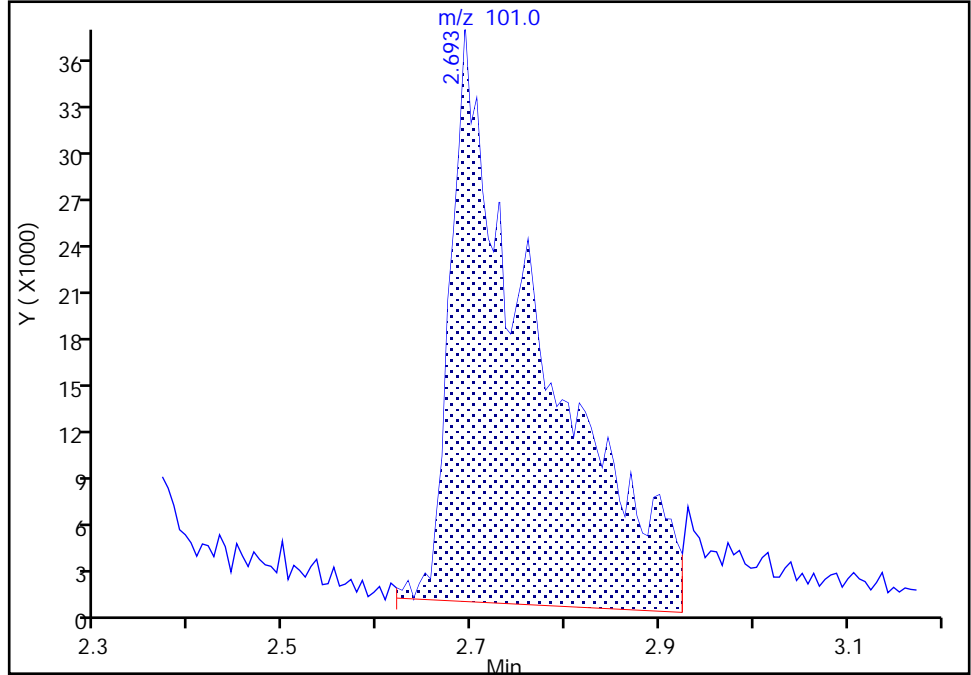
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2582.D
Injection Date: 22-Jun-2018 04:12:30 Instrument ID: HP5973S
Lims ID: 480-137434-C-2 MS
Client ID: LAB-SBW16
Operator ID: KN ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

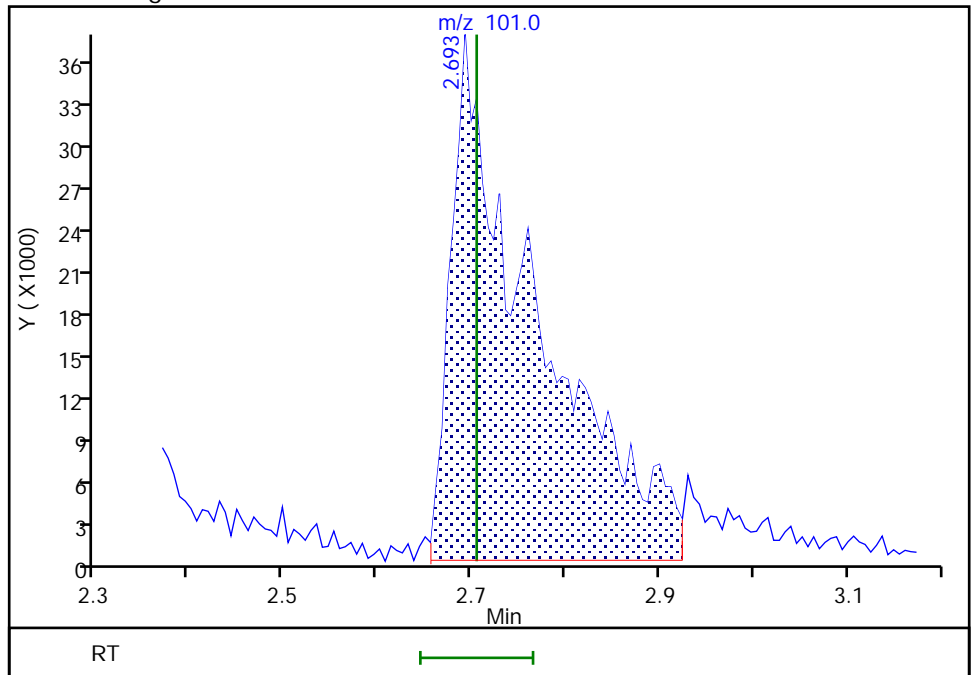
RT: 2.69
Area: 236202
Amount: 30.326101
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 226700
Amount: 29.121059
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 15:39:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 277 of 473

TestAmerica Buffalo

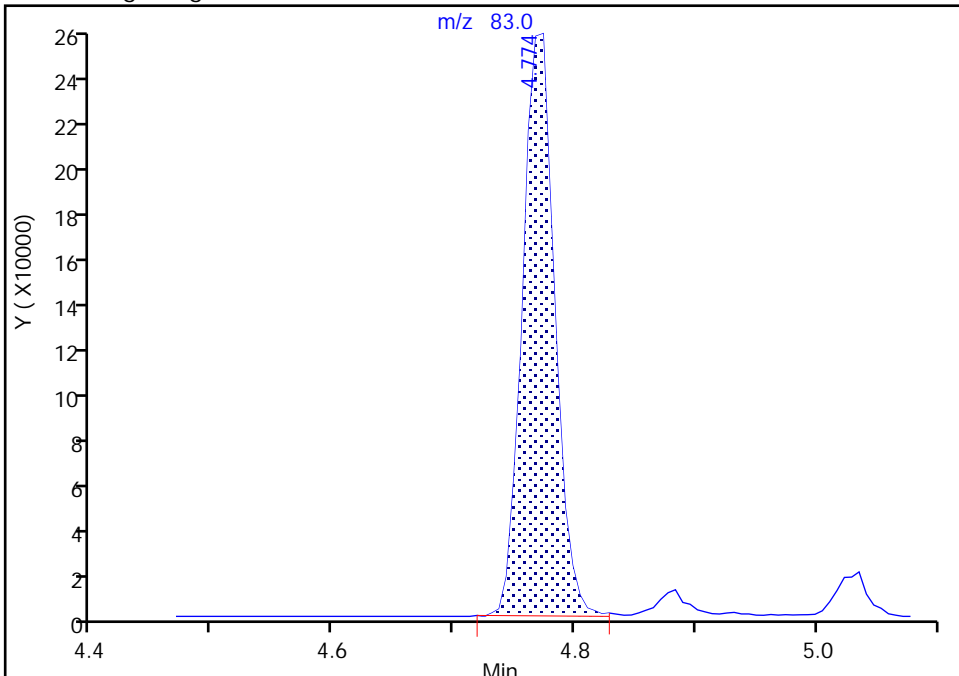
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2582.D
Injection Date: 22-Jun-2018 04:12:30 Instrument ID: HP5973S
Lims ID: 480-137434-C-2 MS
Client ID: LAB-SBW16
Operator ID: KN ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

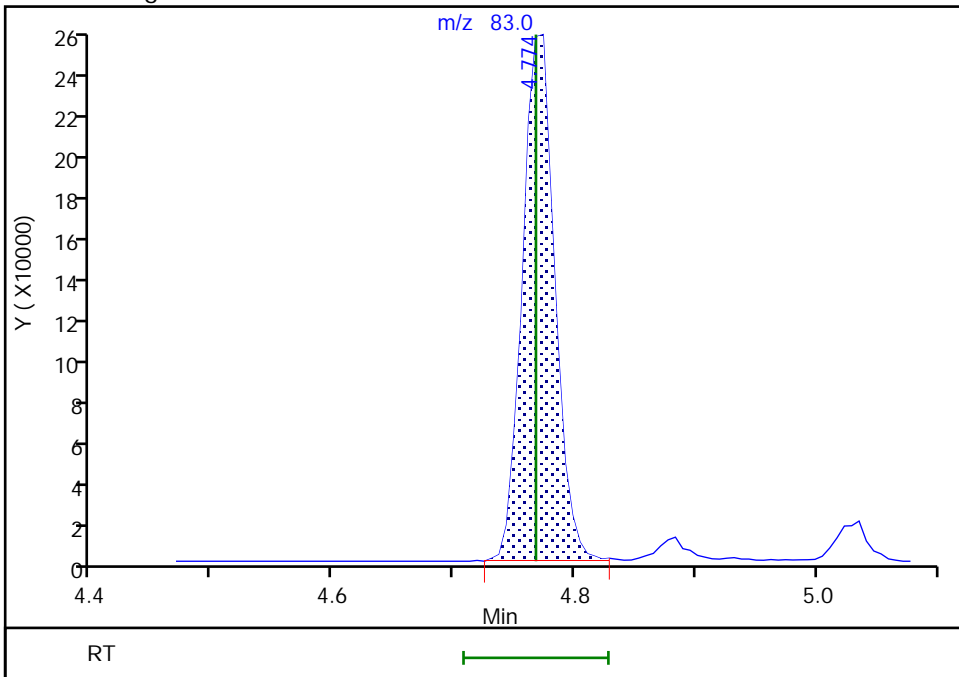
RT: 4.77
Area: 478854
Amount: 25.971459
Amount Units: ug/L

Processing Integration Results



RT: 4.77
Area: 477758
Amount: 25.912015
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 15:39:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 MSD Lab Sample ID: 480-137434-2 MSD
 Matrix: Water Lab File ID: S2583.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 04:35
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	156		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	135		5.0	1.1
79-00-5	1,1,2-Trichloroethane	134		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	137		5.0	1.6
75-34-3	1,1-Dichloroethane	163		5.0	1.9
75-35-4	1,1-Dichloroethene	132		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	136		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	140		5.0	2.0
95-50-1	1,2-Dichlorobenzene	134		5.0	4.0
107-06-2	1,2-Dichloroethane	126		5.0	1.1
78-87-5	1,2-Dichloropropane	128		5.0	3.6
541-73-1	1,3-Dichlorobenzene	134		5.0	3.9
106-46-7	1,4-Dichlorobenzene	134		5.0	4.2
78-93-3	2-Butanone (MEK)	620		50	6.6
591-78-6	2-Hexanone	616		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	639		25	11
67-64-1	Acetone	622		50	15
71-43-2	Benzene	153		5.0	2.1
75-27-4	Bromodichloromethane	138		5.0	2.0
75-25-2	Bromoform	150		5.0	1.3
74-83-9	Bromomethane	124		5.0	3.5
75-15-0	Carbon disulfide	143		5.0	0.95
56-23-5	Carbon tetrachloride	152		5.0	1.4
108-90-7	Chlorobenzene	137		5.0	3.8
124-48-1	Dibromochloromethane	150		5.0	1.6
75-00-3	Chloroethane	133		5.0	1.6
67-66-3	Chloroform	128		5.0	1.7
74-87-3	Chloromethane	124		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	250		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	129		5.0	1.8
110-82-7	Cyclohexane	145		5.0	0.90
75-71-8	Dichlorodifluoromethane	143		5.0	3.4
100-41-4	Ethylbenzene	149		5.0	3.7
106-93-4	1,2-Dibromoethane	134		5.0	3.7
98-82-8	Isopropylbenzene	173		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 MSD Lab Sample ID: 480-137434-2 MSD
 Matrix: Water Lab File ID: S2583.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 04:35
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	245		13	6.5
1634-04-4	Methyl tert-butyl ether	174		5.0	0.80
108-87-2	Methylcyclohexane	145		5.0	0.80
75-09-2	Methylene Chloride	125		5.0	2.2
100-42-5	Styrene	136		5.0	3.7
127-18-4	Tetrachloroethene	142		5.0	1.8
108-88-3	Toluene	144		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	137		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	139		5.0	1.9
79-01-6	Trichloroethene	134		5.0	2.3
75-69-4	Trichlorofluoromethane	135		5.0	4.4
75-01-4	Vinyl chloride	227		5.0	4.5
1330-20-7	Xylenes, Total	412		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2583.D
 Lims ID: 480-137434-C-2 MSD
 Client ID: LAB-SBW16
 Sample Type: MSD
 Inject. Date: 22-Jun-2018 04:35:30 ALS Bottle#: 31 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137434-c-2 msd
 Misc. Info.: 480-0072528-032
 Operator ID: KN Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 15:41:30 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: carrolln Date: 22-Jun-2018 15:41:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	203761	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	83	393328	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	50	359239	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.006	57	235298	25.0	24.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	151843	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	83	954810	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	299021	25.0	25.4	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	279822	25.0	28.5	
12 Chloromethane	50	1.464	1.470	-0.006	92	386029	25.0	24.8	
13 Vinyl chloride	62	1.549	1.556	0.000	78	629890	25.0	45.4	
14 Bromomethane	94	1.866	1.890	-0.024	89	184917	25.0	24.9	
15 Chloroethane	64	1.969	1.981	-0.025	99	223088	25.0	26.6	
17 Trichlorofluoromethane	101	2.188	2.188	0.000	93	355164	25.0	27.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	75	218433	25.0	27.4	M
22 1,1-Dichloroethene	96	2.717	2.718	-0.001	91	236883	25.0	26.3	
23 Acetone	43	2.851	2.845	0.006	99	487319	125.0	124.3	
26 Carbon disulfide	76	2.918	2.930	-0.012	97	818841	25.0	28.5	
27 Methyl acetate	43	3.143	3.143	0.000	95	504201	50.0	49.0	
30 Methylene Chloride	84	3.253	3.259	0.012	90	296679	25.0	24.9	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	91	1174470	25.0	34.8	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	81	282882	25.0	27.5	
39 1,1-Dichloroethane	63	3.891	3.892	-0.001	97	707283	25.0	32.6	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	84	592343	25.0	50.0	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	746880	125.0	124.1	
50 Chloroform	83	4.774	4.774	0.006	83	482874	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	97	441425	25.0	31.3	
52 Cyclohexane	56	4.877	4.877	0.000	90	550643	25.0	29.0	
55 Carbon tetrachloride	117	5.011	5.011	0.000	89	359414	25.0	30.4	
57 Benzene	78	5.236	5.230	0.000	97	1320054	25.0	30.5	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	78	440798	25.0	25.2	
62 Trichloroethene	95	5.850	5.850	-0.001	96	297887	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	93	491995	25.0	29.0	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	96	333162	25.0	25.5	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	361189	25.0	27.5	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	425525	25.0	25.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1603951	125.0	127.7	
74 Toluene	92	7.085	7.086	-0.001	92	755033	25.0	28.9	
77 trans-1,3-Dichloropropene	75	7.371	7.378	-0.007	95	401099	25.0	27.8	
79 1,1,2-Trichloroethane	83	7.566	7.572	-0.006	92	210764	25.0	26.8	
81 Tetrachloroethene	166	7.615	7.615	0.000	84	312603	25.0	28.3	
80 2-Hexanone	43	7.791	7.791	0.000	90	1138381	125.0	123.2	
83 Chlorodibromomethane	129	7.961	7.962	-0.001	91	269119	25.0	30.0	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	98	265760	25.0	26.8	
87 Chlorobenzene	112	8.539	8.539	0.000	92	786397	25.0	27.4	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1405009	25.0	29.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	1005528		52.5	
91 o-Xylene	106	9.178	9.178	0.000	98	546239		30.0	
92 Styrene	104	9.209	9.209	0.000	93	850015	25.0	27.2	
95 Bromoform	173	9.464	9.464	0.000	96	171722	25.0	30.0	
94 Isopropylbenzene	105	9.561	9.562	-0.001	96	1571376	25.0	34.7	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	70	332927	25.0	27.1	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	597575	25.0	26.8	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	606161	25.0	26.7	
116 1,2-Dichlorobenzene	146	11.265	11.271	0.000	92	585251	25.0	26.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	80	67060	25.0	28.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	425351	25.0	27.3	
S 124 Xylenes, Total	1				0			82.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2583.D

Injection Date: 22-Jun-2018 04:35:30

Instrument ID: HP5973S

Operator ID: KN

Lims ID: 480-137434-C-2 MSD

Worklist Smp#: 32

Client ID: LAB-SBW16

Purge Vol: 5.000 mL

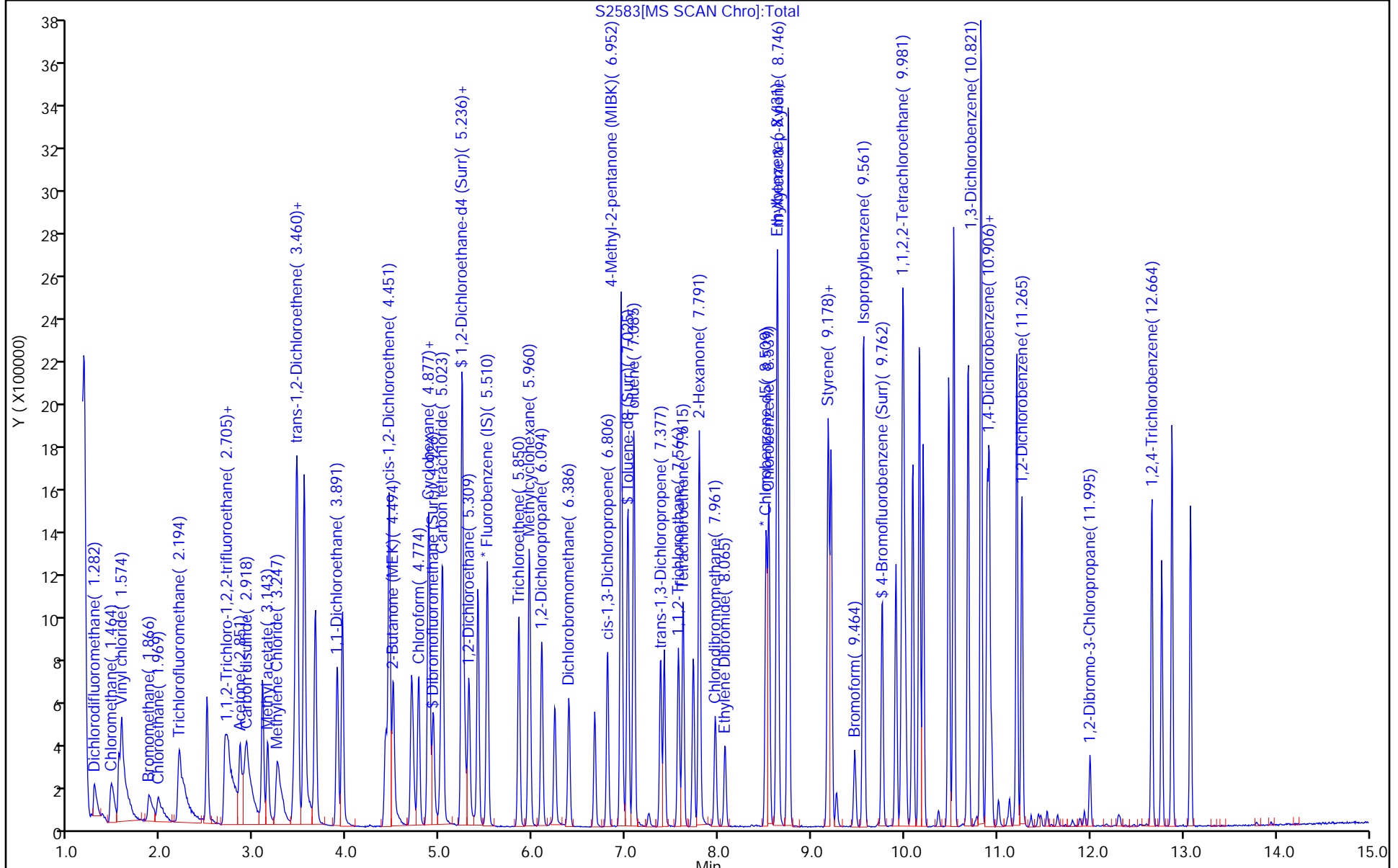
Dil. Factor: 5.0000

ALS Bottle#: 31

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

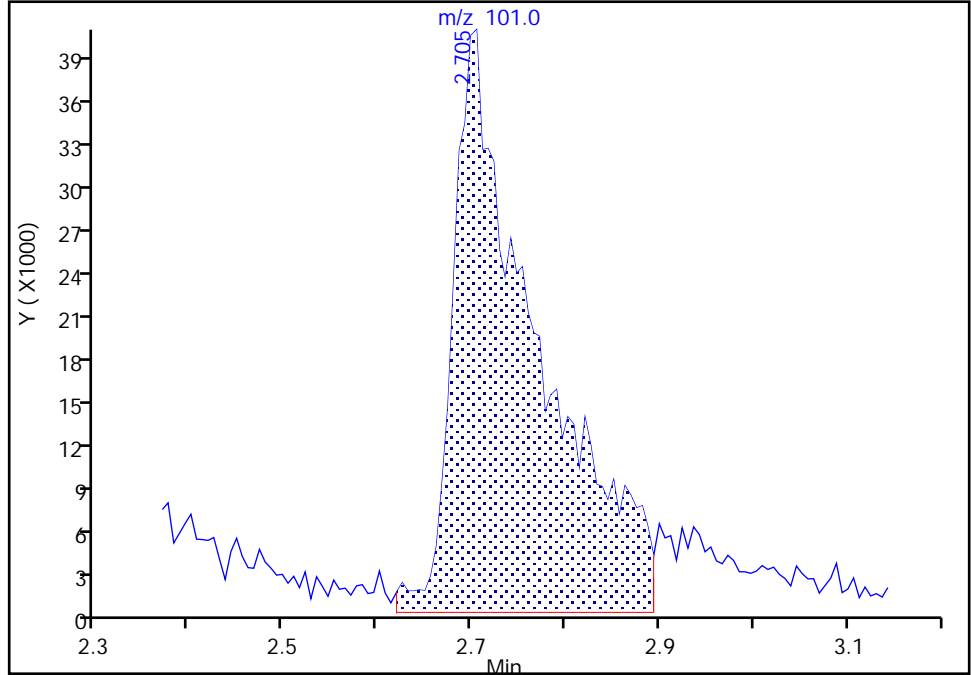
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180621-72528.b\S2583.D
Injection Date: 22-Jun-2018 04:35:30 Instrument ID: HP5973S
Lims ID: 480-137434-C-2 MSD
Client ID: LAB-SBW16
Operator ID: KN ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

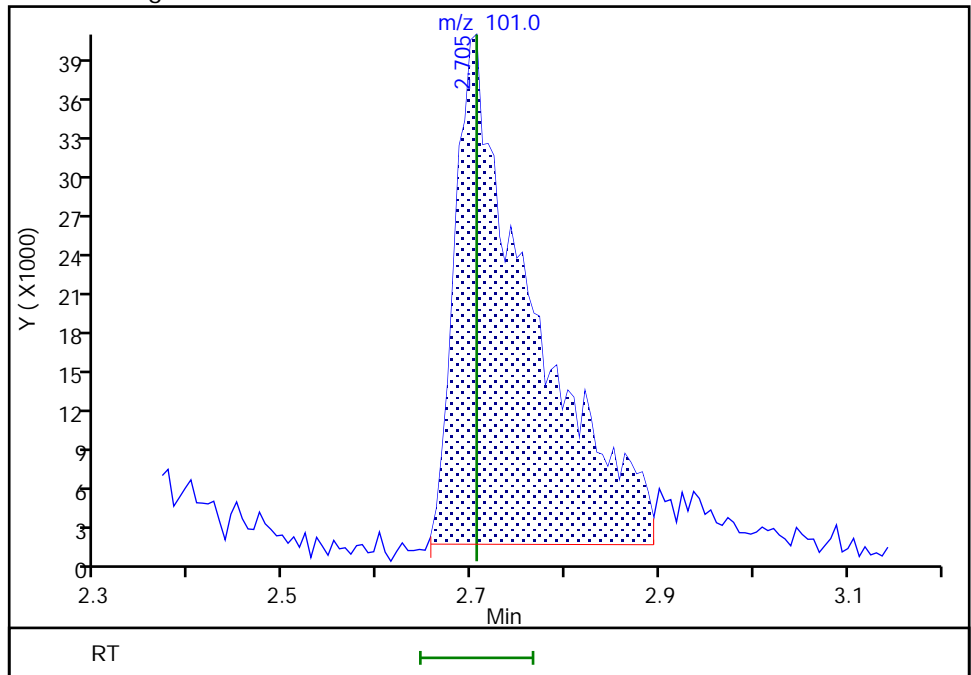
RT: 2.71
Area: 250072
Amount: 31.258625
Amount Units: ug/L

Processing Integration Results



RT: 2.71
Area: 218433
Amount: 27.350736
Amount Units: ug/L

Manual Integration Results



Reviewer: carrolln, 22-Jun-2018 15:41:03
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137434-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 06/20/2018 12:54Analysis Batch Number: 420621End Date: 06/20/2018 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420621/3		06/20/2018 12:54	1	S2504.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/5		06/20/2018 13:51	1	S2506.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/6		06/20/2018 14:14	1	S2507.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/7		06/20/2018 14:38	1	S2508.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/8		06/20/2018 15:01	1	S2509.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/9		06/20/2018 15:24	1	S2510.D	ZB-624 (20) 0.18 (mm)
ICIS 480-420621/10		06/20/2018 15:48	1	S2511.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/11		06/20/2018 16:11	1	S2512.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/12		06/20/2018 16:34	1	S2513.D	ZB-624 (20) 0.18 (mm)
MDLV 480-420621/14		06/20/2018 17:21	1		ZB-624 (20) 0.18 (mm)
MDLV 480-420621/15		06/20/2018 17:44	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/17		06/20/2018 18:31	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/18		06/20/2018 18:54	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/19		06/20/2018 19:17	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/20		06/20/2018 19:41	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/21		06/20/2018 20:04	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/22		06/20/2018 20:27	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/23		06/20/2018 20:51	1		ZB-624 (20) 0.18 (mm)
MDLV 480-420621/25		06/20/2018 21:37	1		ZB-624 (20) 0.18 (mm)
ICV 480-420621/26		06/20/2018 22:01	1		ZB-624 (20) 0.18 (mm)
ICV 480-420621/27		06/20/2018 22:24	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Instrument ID: HP5973S Start Date: 06/21/2018 17:57

Analysis Batch Number: 420936 End Date: 06/22/2018 04:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420936/4		06/21/2018 17:57	1	S2556.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-420936/5		06/21/2018 18:24	1	S2557.D	ZB-624 (20) 0.18 (mm)
CCV 480-420936/6		06/21/2018 18:48	1		ZB-624 (20) 0.18 (mm)
ICV 480-420936/7		06/21/2018 19:11	1		ZB-624 (20) 0.18 (mm)
LCS 480-420936/9		06/21/2018 19:34	1	S2561.D	ZB-624 (20) 0.18 (mm)
MB 480-420936/11		06/21/2018 20:39	1	S2563.D	ZB-624 (20) 0.18 (mm)
480-137434-1		06/21/2018 21:13	8	S2564.D	ZB-624 (20) 0.18 (mm)
480-137434-2		06/21/2018 21:36	5	S2565.D	ZB-624 (20) 0.18 (mm)
480-137434-3		06/21/2018 21:59	5	S2566.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/21/2018 22:22	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/21/2018 22:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/21/2018 23:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/21/2018 23:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/21/2018 23:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 00:19	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 00:42	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 01:06	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 01:29	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 01:52	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 02:16	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 02:39	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 03:02	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 03:26	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/22/2018 03:49	1		ZB-624 (20) 0.18 (mm)
480-137434-2 MS		06/22/2018 04:12	5	S2582.D	ZB-624 (20) 0.18 (mm)
480-137434-2 MSD		06/22/2018 04:35	5	S2583.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 420936 Batch Start Date: 06/21/18 17:57 Batch Analyst: Carroll, Nicole M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00127	BFB_WRK 00071	GAS CORP mix 00287
BFB 480-420936/4		8260C		1 uL	1 uL			1 uL	
CCVIS 480-420936/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-420936/9		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-420936/11		8260C		5 mL	5 mL				
480-137434-H-1	LAB-SBW15	8260C	T	5 mL	5 mL	<2 SU			
480-137434-H-2	LAB-SBW16	8260C	T	5 mL	5 mL	7 SU			
480-137434-C-3	DUPE	8260C	T	5 mL	5 mL	7 SU			
480-137434-C-2 MS	LAB-SBW16	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL
480-137434-C-2 MSD	LAB-SBW16	8260C	T	5 mL	5 mL	7 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00292	S_8260_Surr 00271	AnalysisComment			
BFB 480-420936/4		8260C							
CCVIS 480-420936/5		8260C		1 uL	1 uL				
LCS 480-420936/9		8260C		1 uL	1 uL				
MB 480-420936/11		8260C		1 uL	1 uL				
480-137434-H-1	LAB-SBW15	8260C	T	1 uL	1 uL	Targets			
480-137434-H-2	LAB-SBW16	8260C	T	1 uL	1 uL	Targets			
480-137434-C-3	DUPE	8260C	T	1 uL	1 uL	Targets			
480-137434-C-2 MS	LAB-SBW16	8260C	T	1 uL	1 uL	Client QC			
480-137434-C-2 MSD	LAB-SBW16	8260C	T	1 uL	1 uL	Client QC			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 420936 Batch Start Date: 06/21/18 17:57 Batch Analyst: Carroll, Nicole M

Batch Method: 8260C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_045.D
 Lab ID: LCS 480-420316/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	13.1	90	79-120	
Ethene	13.6	12.0	88	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_12_046.D

Lab ID: LCSD 480-420316/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	14.6	13.8	95	6	50	79-120	
Ethene	13.6	12.8	94	6	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: MB 480-420316/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_12_044.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/19/2018 09:55 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-420316/5	06/19/2018 10:12	
	LCSD 480-420316/6	06/19/2018 10:30	
LAB-SBW16	480-137434-2	06/19/2018 11:54	
LAB-SBW15	480-137434-1	06/19/2018 13:56	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: 21_12_055.D
 Analysis Method: RSK-175 Date Collected: 06/13/2018 14:30
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 11
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	370		83	17
74-85-1	Ethene	33	J	77	17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_055.D
 Lims ID: 480-137434-K-1
 Client ID: LAB-SBW15
 Sample Type: Client
 Inject. Date: 19-Jun-2018 13:56:33 ALS Bottle#: 0 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 11.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 14:28:55

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.753	0.000	59236	33.6	
2	1.543	1.547	-0.004	76681	33.6	

3 Ethylene

1	2.437	2.437	0.000	10823	2.98	
2	1.463	1.467	-0.004	14307	2.32	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_055.D

Injection Date: 19-Jun-2018 13:56:33

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-137434-K-1

Lab Sample ID: 480-137434-1

Worklist Smp#: 15

Client ID: LAB-SBW15

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

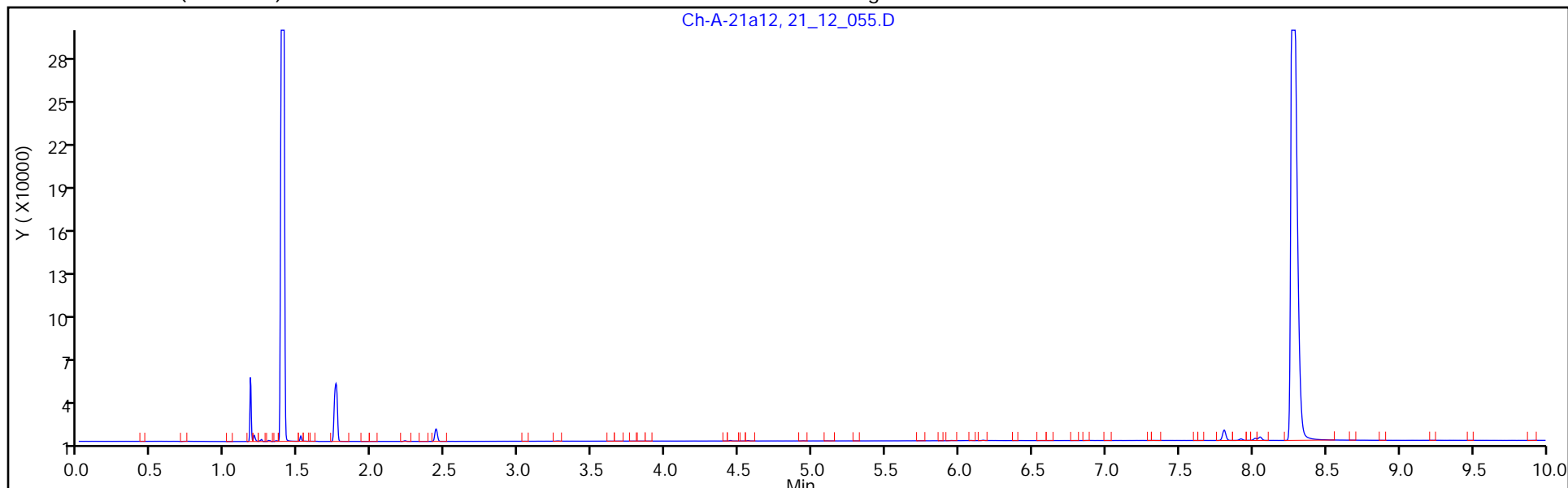
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

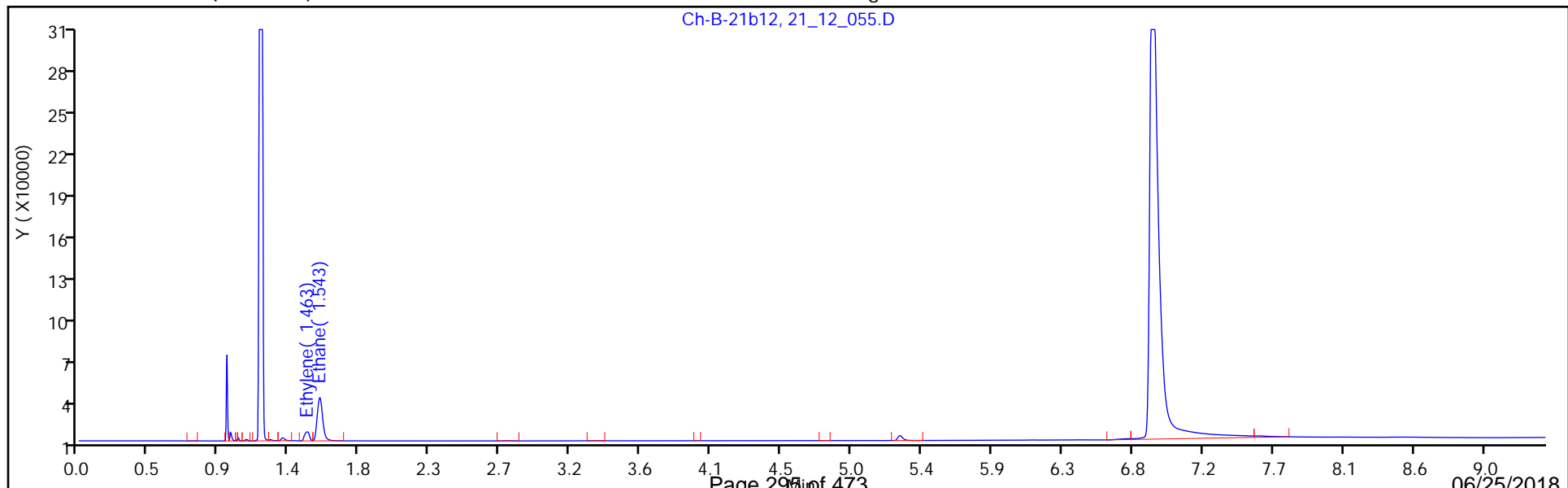
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: 21_12_048.D
 Analysis Method: RSK-175 Date Collected: 06/13/2018 10:15
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 22
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	110	J	170	33
74-85-1	Ethene	ND		150	33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_048.D
 Lims ID: 480-137434-K-2
 Client ID: LAB-SBW16
 Sample Type: Client
 Inject. Date: 19-Jun-2018 11:54:03 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 22.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 12:32:20

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.753	1.753	0.000	15374	4.91	
2	1.547	1.547	0.000	20510	4.49	

3 Ethylene

1	2.433	2.437	-0.004	8445	1.28	
2	1.467	1.467	0.000	11222	0.5329	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_048.D

Injection Date: 19-Jun-2018 11:54:03

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-137434-K-2

Lab Sample ID: 480-137434-2

Worklist Smp#: 8

Client ID: LAB-SBW16

Purge Vol: 5.000 mL

Dil. Factor: 22.0000

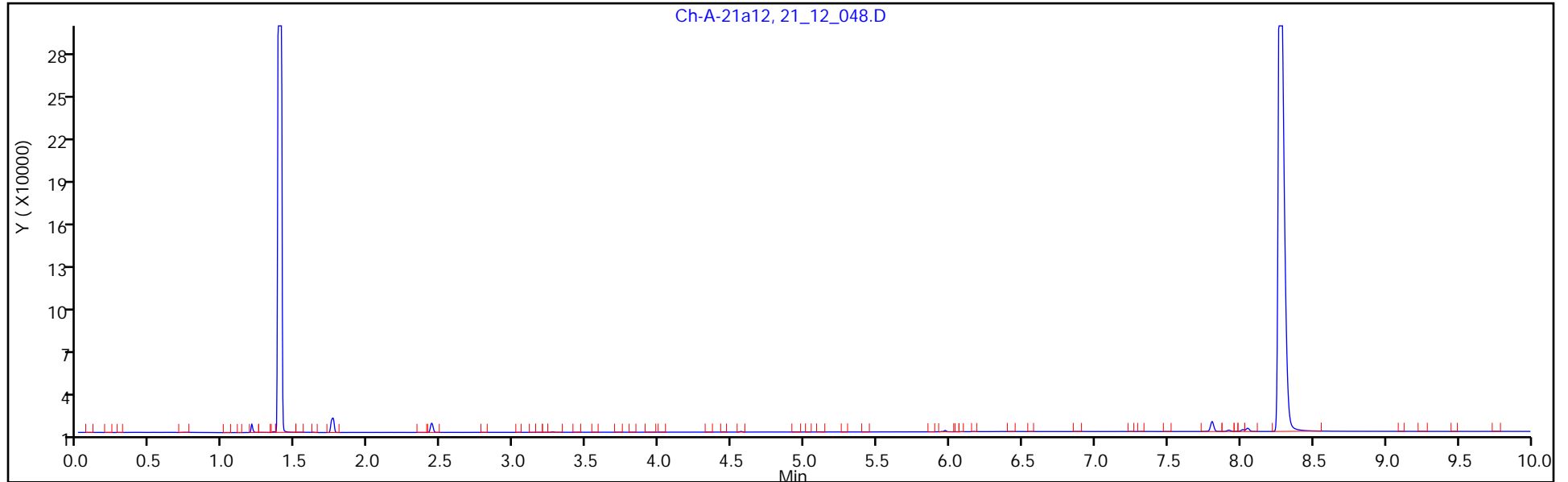
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

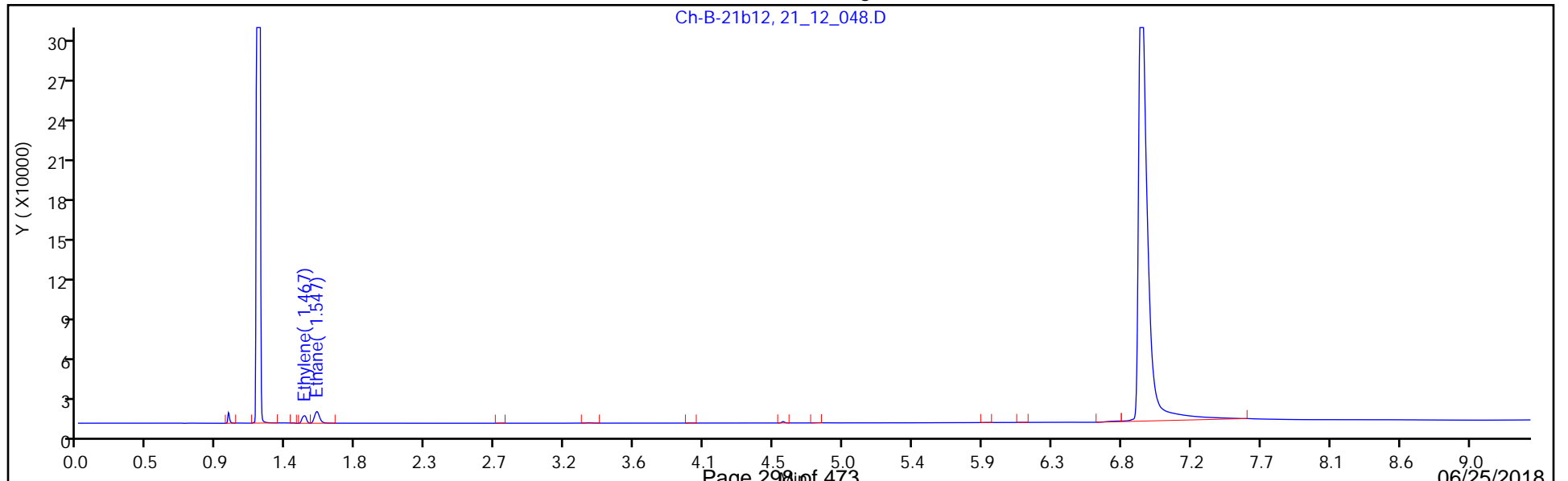
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124							0.9980		0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962							0.9980		0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756							0.9980		0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753							0.9970		0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147							0.9930		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	Lin1	9749	14857	34711	62430	125878	3.88	7.77	19.4	38.8	77.7
		229956	348303	441234	534455		155	233	311	388	
Ethane	Lin1	18234	28234	67776	121900	247603	7.28	14.6	36.4	72.8	146
		450167	686896	868187	+++++		291	437	583	+++++	
Ethene	Lin1	15388	24254	57298	104285	211496	6.80	13.6	34.0	68.0	136
		384441	587597	737510	+++++		272	408	544	+++++	
Propane	Lin1	27946	43073	103995	185489	380021	10.7	21.4	53.4	107	214
		684190	+++++	+++++	+++++		427	+++++	+++++	+++++	
Butane	Lin1	37264	57053	138358	247119	587931	13.9	27.9	69.7	139	279
		1013085	+++++	+++++	+++++		558	+++++	+++++	+++++	

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	
2 Ethane							
1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	
3 Ethylene							
1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	
4 Propane							
1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	
5 Butane							
1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

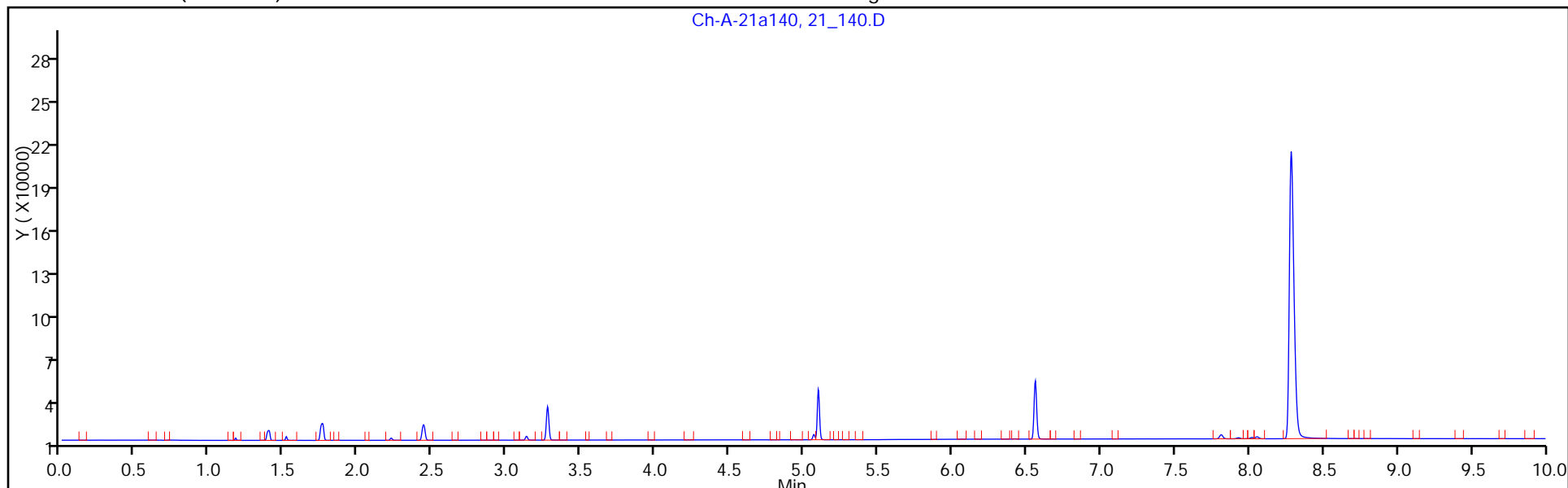
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

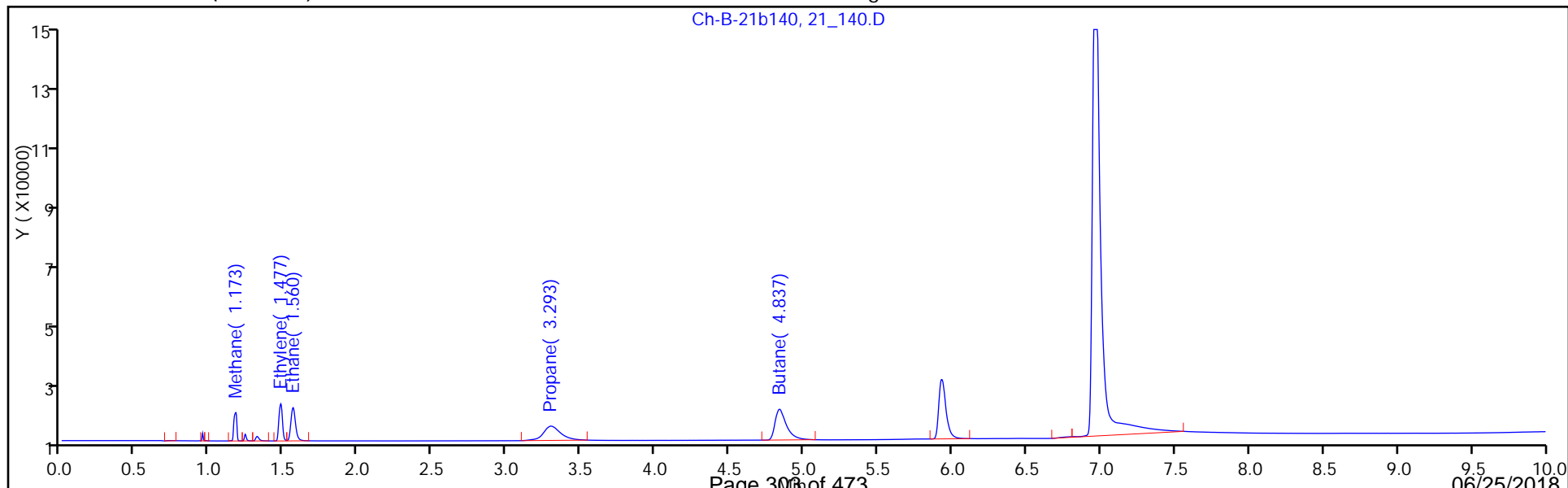
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	
2 Ethane							
1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	
3 Ethylene							
1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	
4 Propane							
1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	
5 Butane							
1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

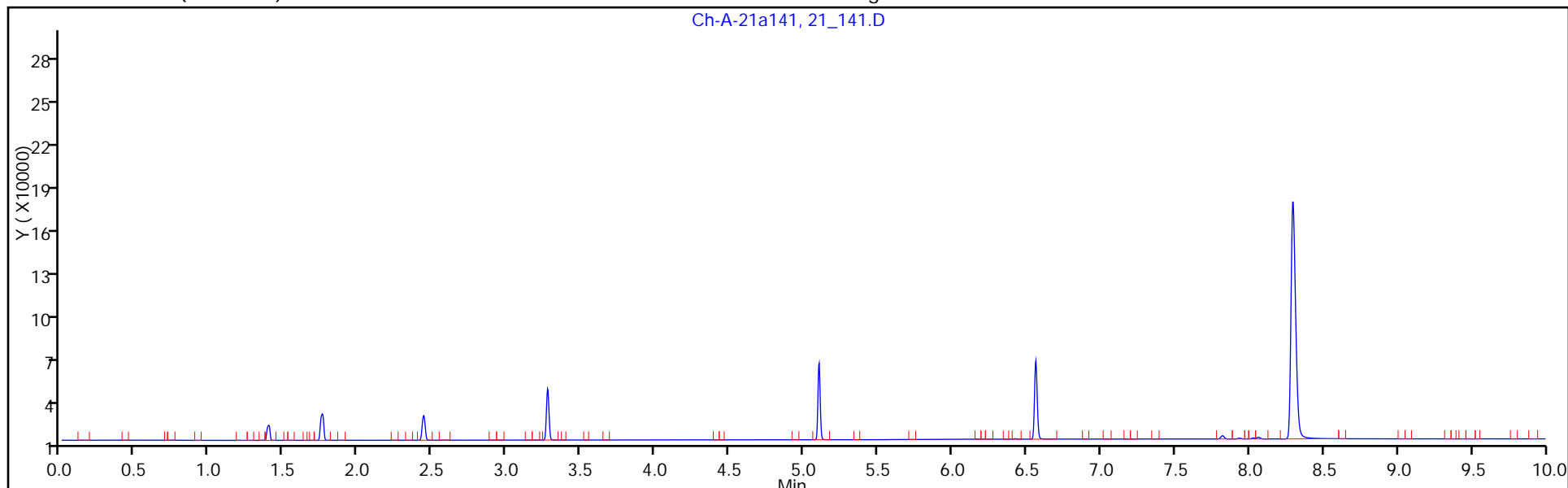
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

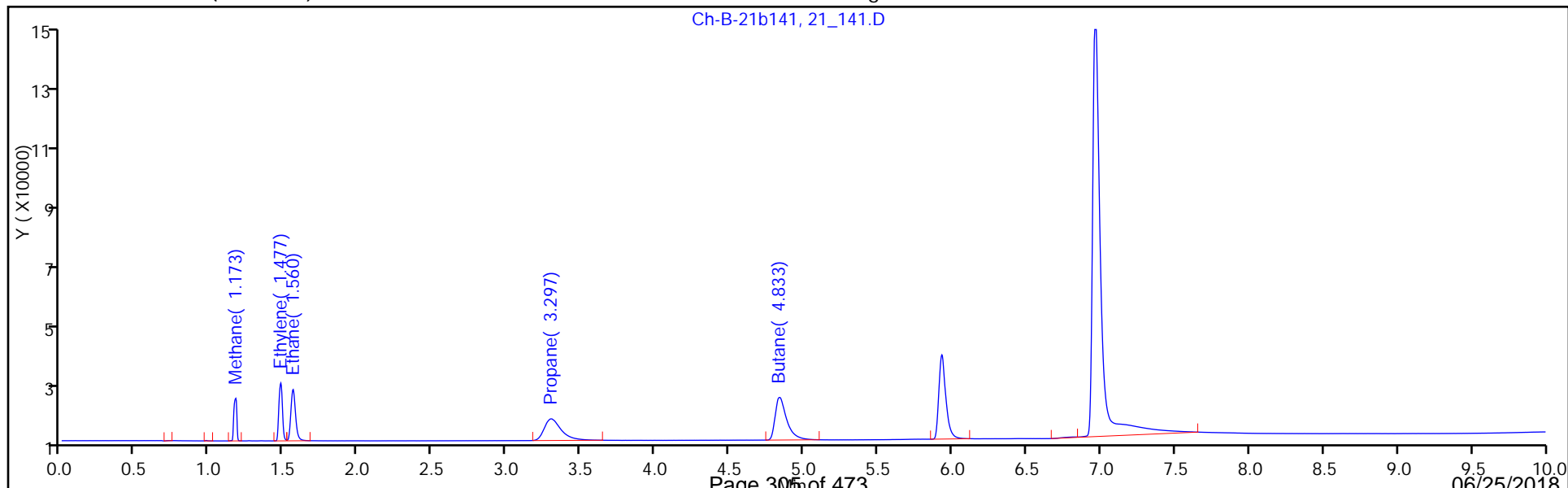
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	

2 Ethane

1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	

3 Ethylene

1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	

4 Propane

1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	

5 Butane

1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022 Amount Added: 50.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

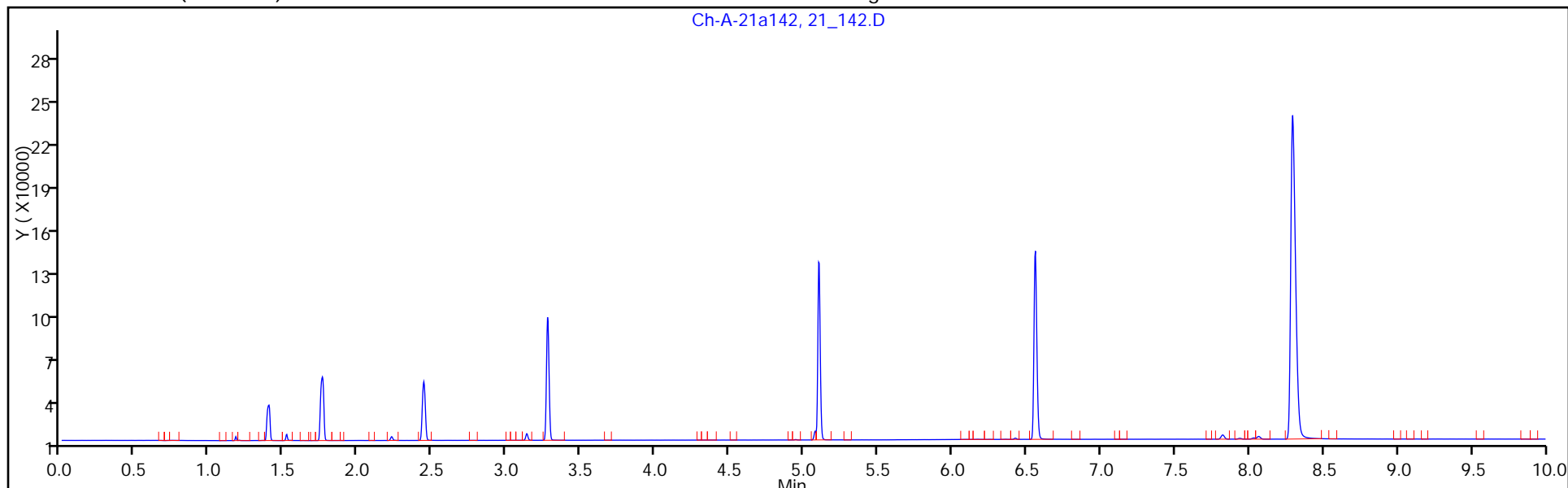
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

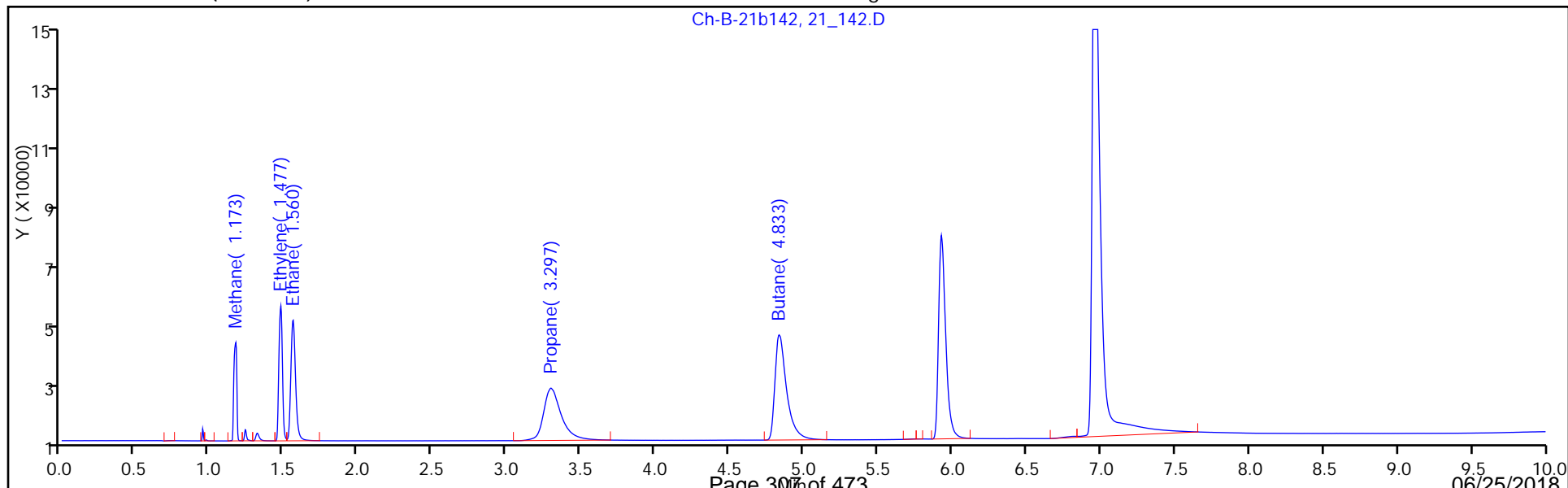
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	
2 Ethane							
1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	
3 Ethylene							
1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	
4 Propane							
1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	
5 Butane							
1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

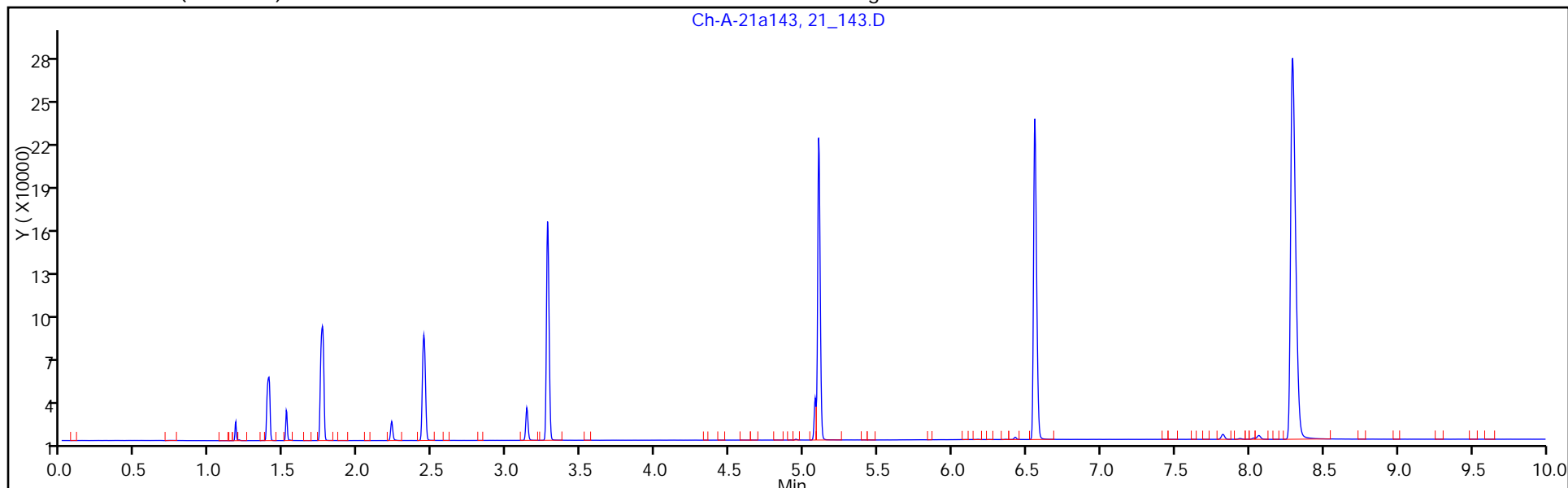
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

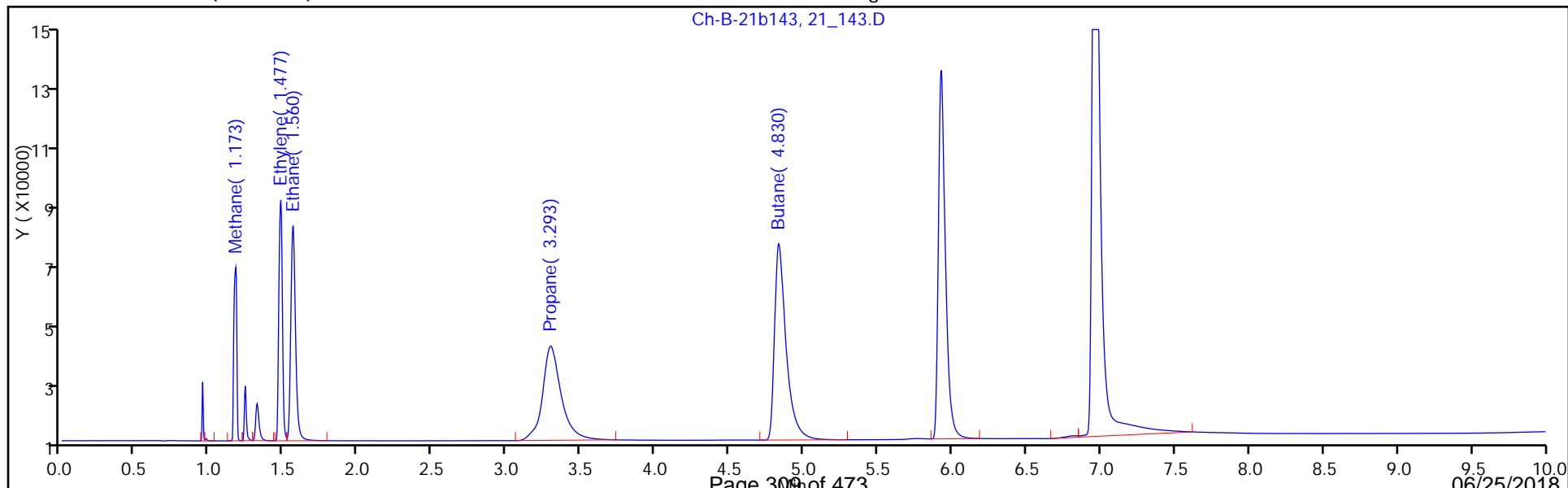
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	
2 Ethane							
1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	
3 Ethylene							
1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	
4 Propane							
1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	
5 Butane							
1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022 Amount Added: 200.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

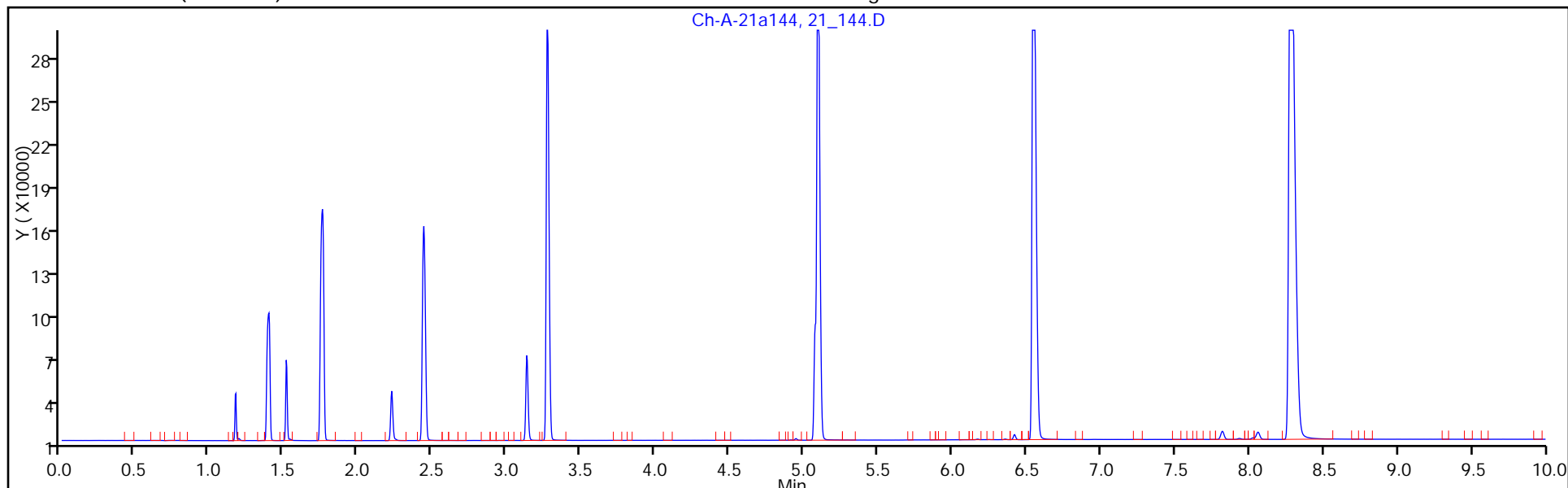
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

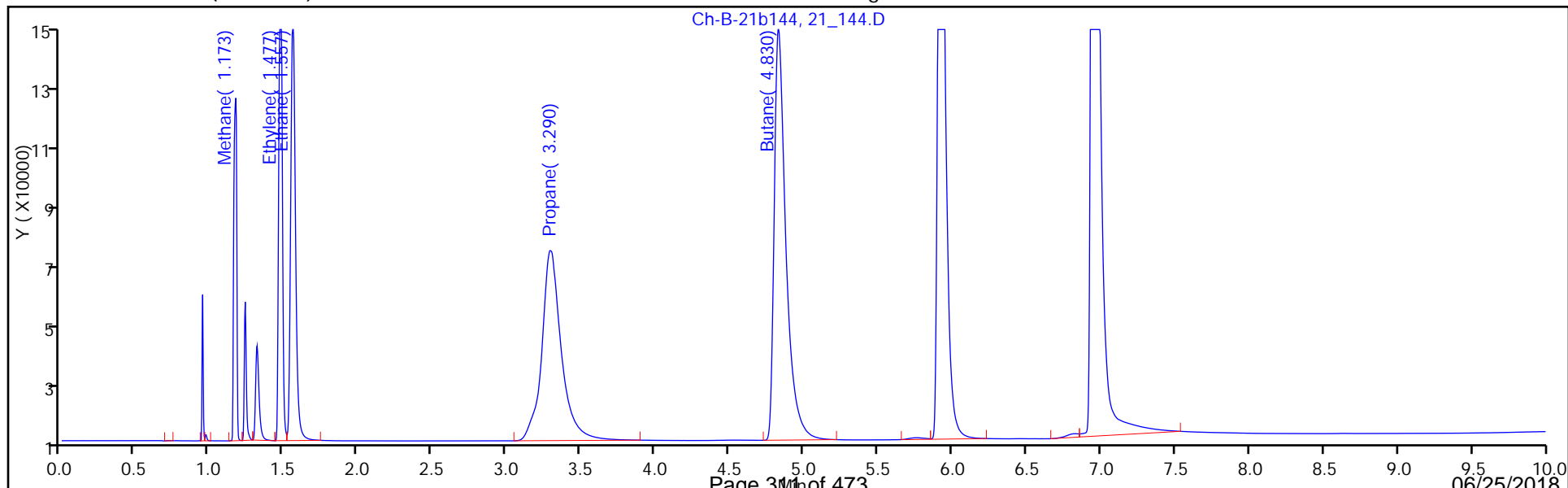
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	
2 Ethane							
1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	
3 Ethylene							
1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	
4 Propane							
1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	
5 Butane							
1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022 Amount Added: 400.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

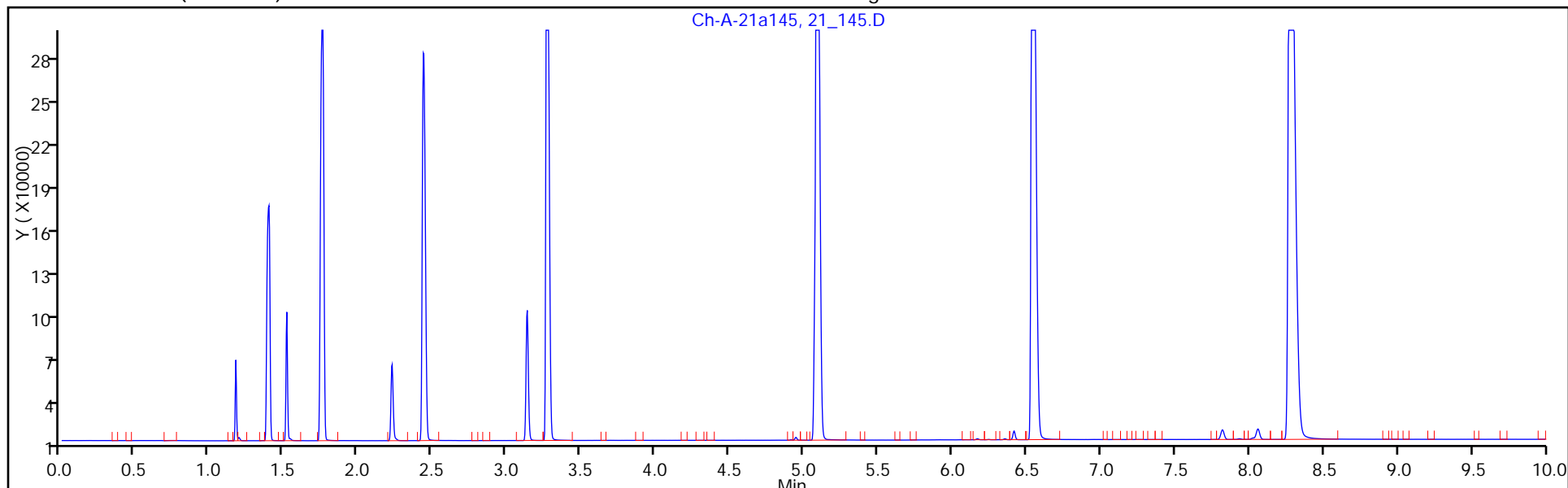
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

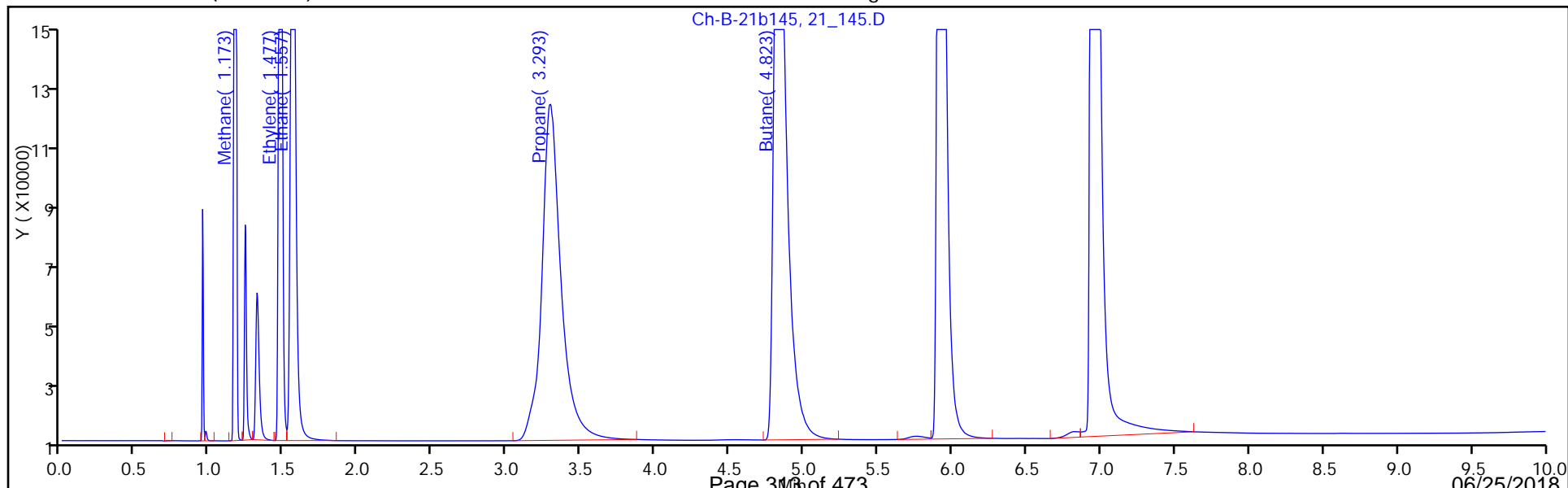
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	
2 Ethane							
1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	
3 Ethylene							
1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	
4 Propane							
1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	
5 Butane							
1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022 Amount Added: 600.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

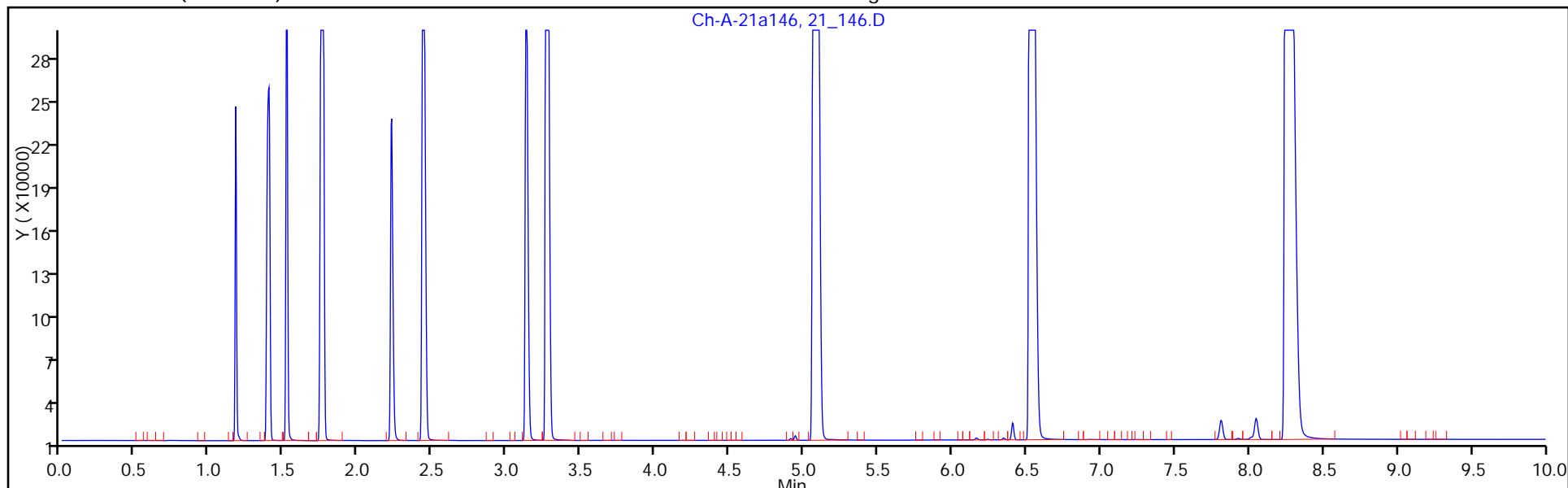
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

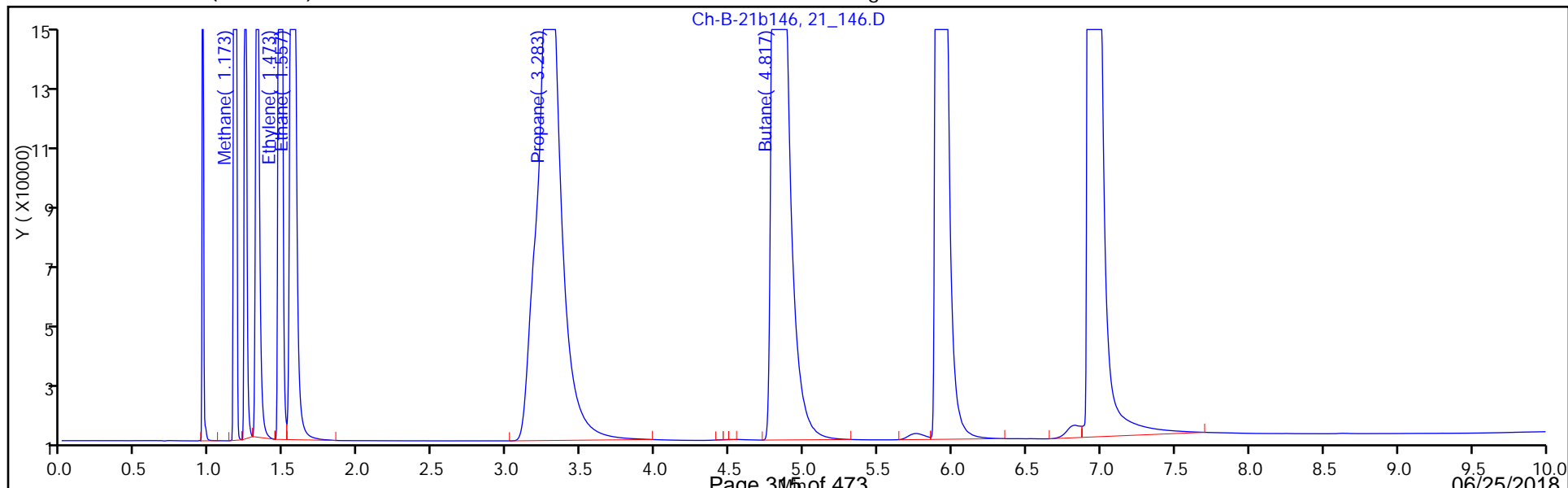
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	441234	310.8	306.7	M
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							
1	1.757	1.757	0.000	868187	582.7	563.1	M
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							
1	2.433	2.440	-0.007	737510	543.9	523.5	M
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 800.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

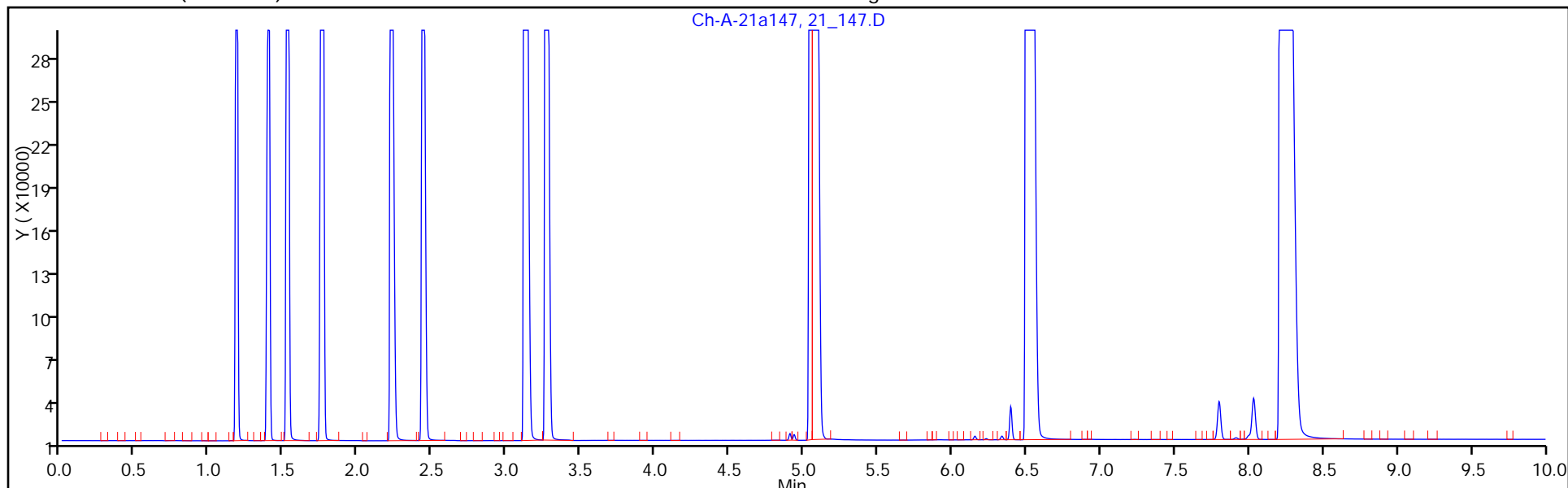
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

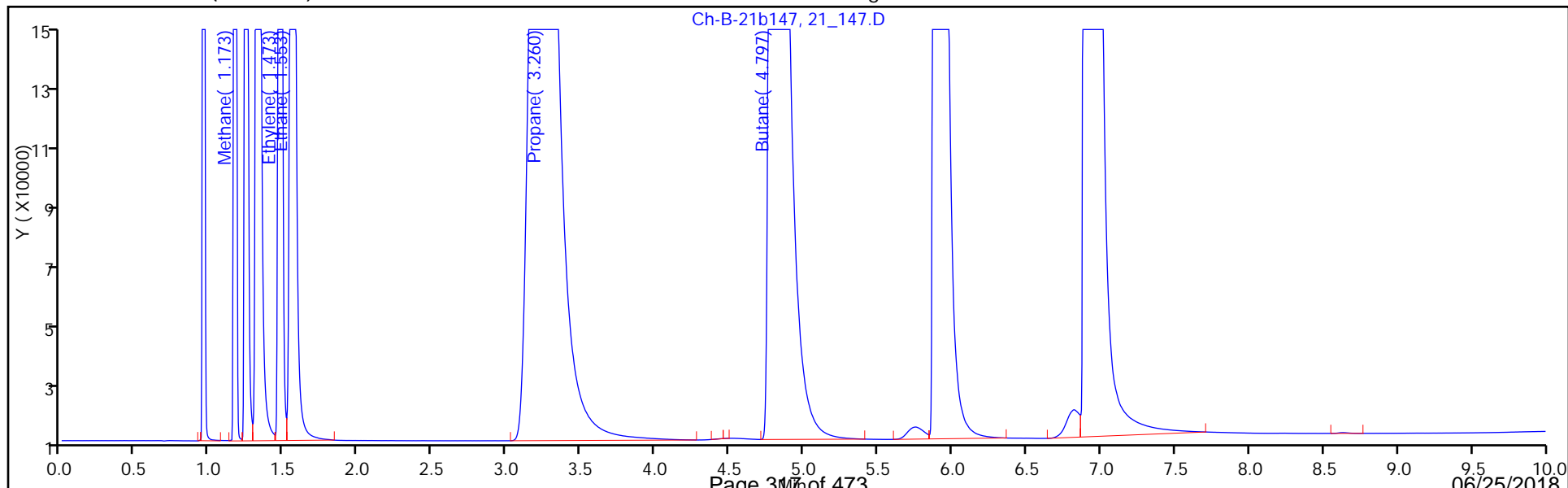
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	
2 Ethane							
1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	
3 Ethylene							
1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	
4 Propane							
1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M
5 Butane							
1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 1000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

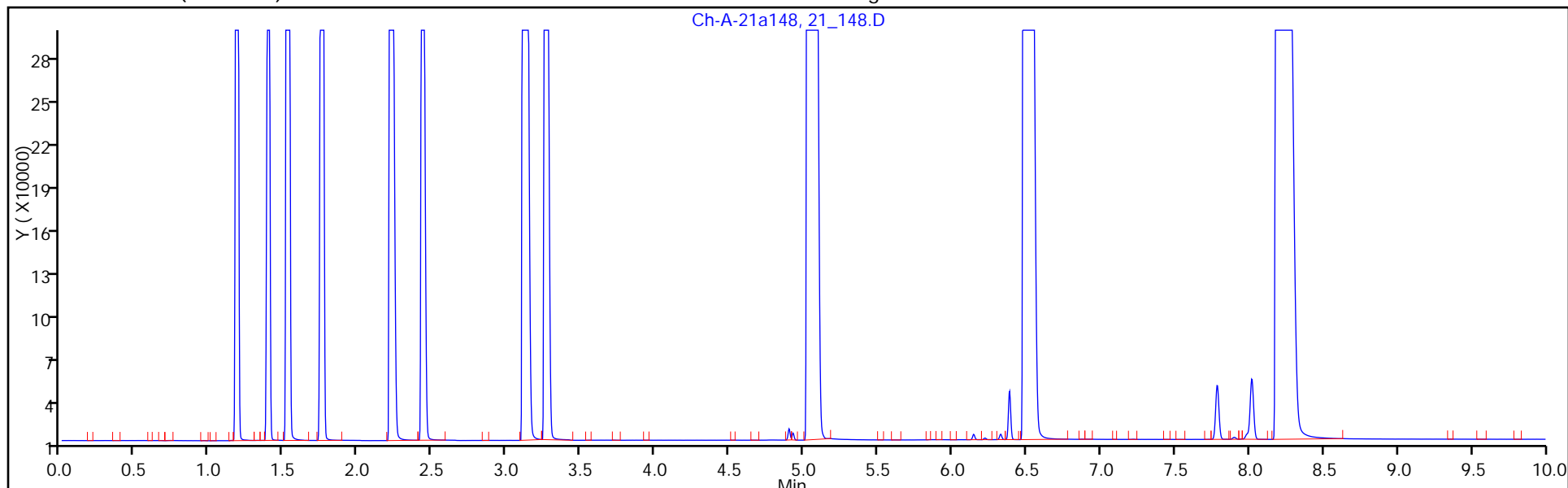
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

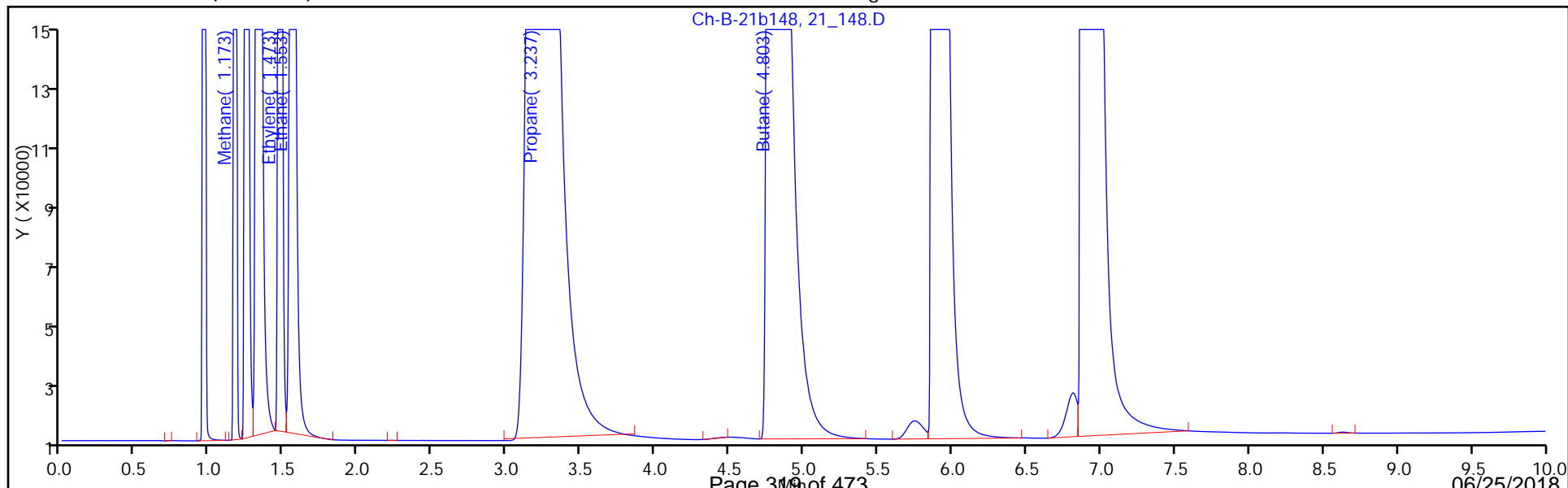
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

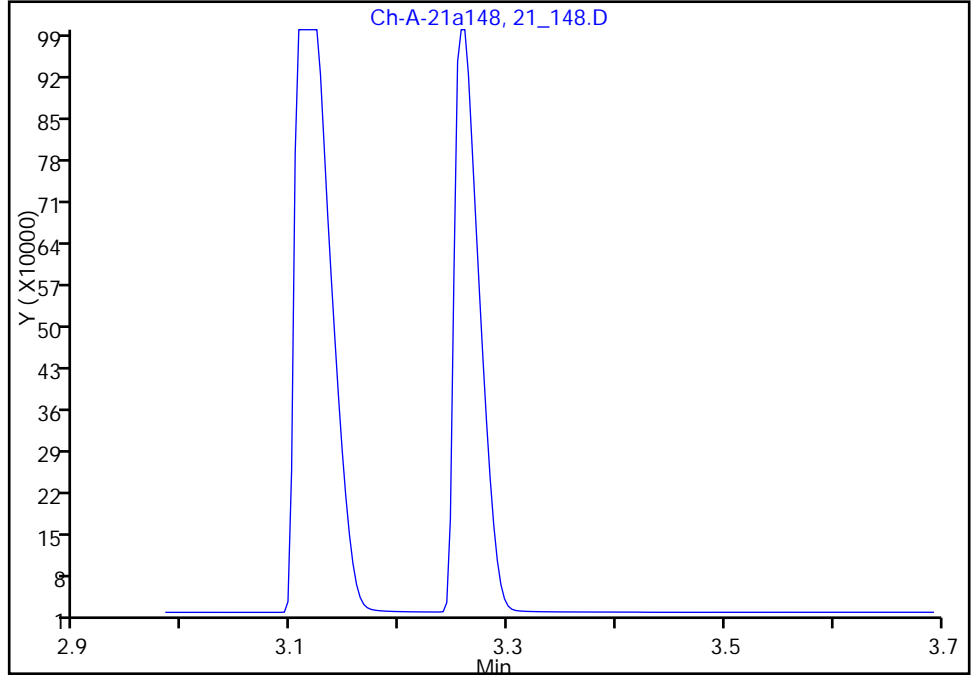
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

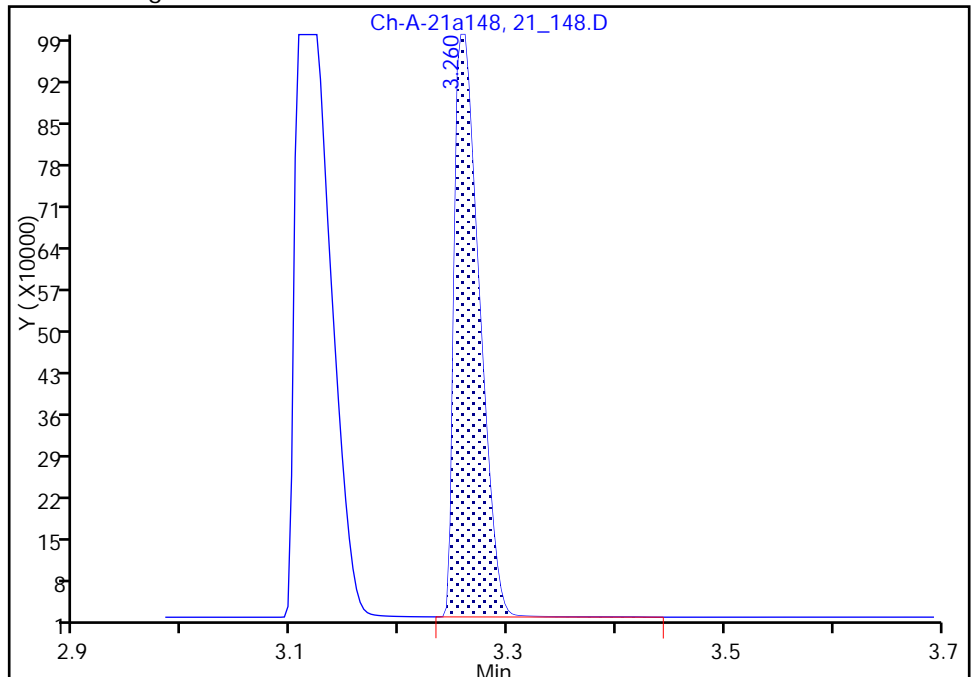
Not Detected
Expected RT: 3.27

Processing Integration Results



RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l

Manual Integration Results



Reviewer: gentnert, 12-Sep-2017 11:10:42
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1773		15.9	15.5	2.6	15.0
Ethane	Lin1		1745		28.1	29.1	-3.5	15.0
Ethene	Lin1		1593		26.3	27.2	-3.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.44	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_043.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Jun-2018 09:37:36 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 10:10:33

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	27551	15.5	15.9	
2	1.173	1.173	0.000	36762	15.5	16.5	
2 Ethane							
1	1.753	1.753	0.000	50847	29.1	28.1	
2	1.547	1.547	0.000	67145	29.1	28.7	
3 Ethylene							
1	2.437	2.437	0.000	43330	27.2	26.3	
2	1.467	1.467	0.000	56391	27.2	26.8	
4 Propane							
1	3.263	3.263	0.000	77622	42.7	40.9	
2	3.257	3.257	0.000	100809	42.7	36.7	
5 Butane							
1	5.087	5.087	0.000	103334	55.8	50.6	
2	4.797	4.797	0.000	137989	55.8	49.7	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_043.D

Injection Date: 19-Jun-2018 09:37:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

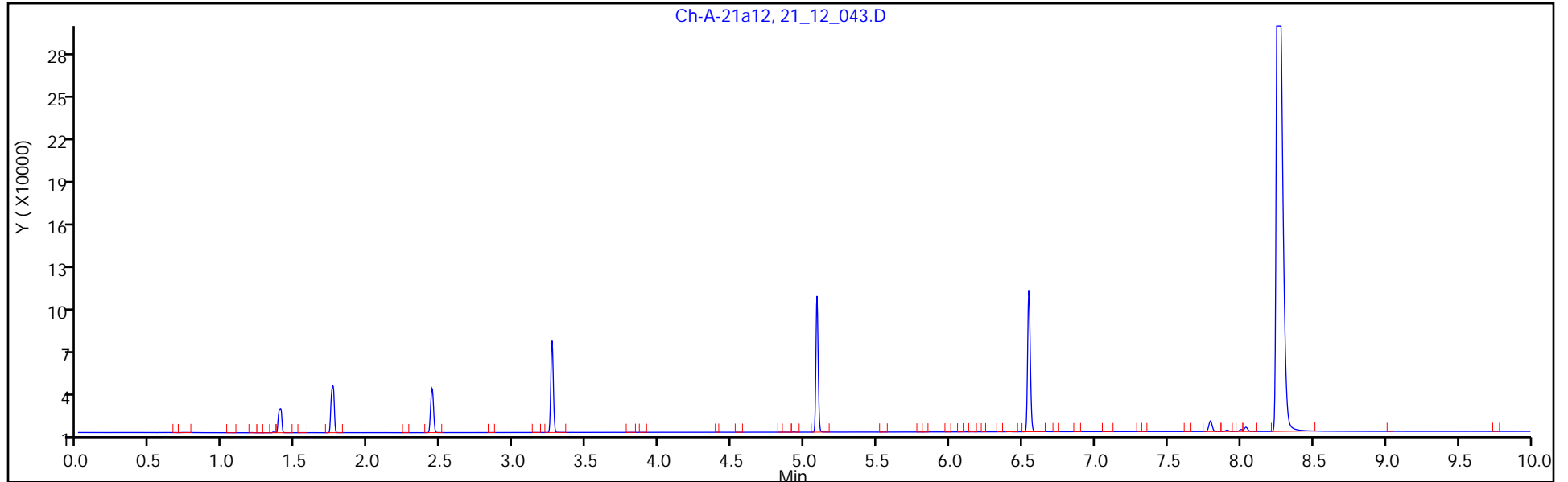
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

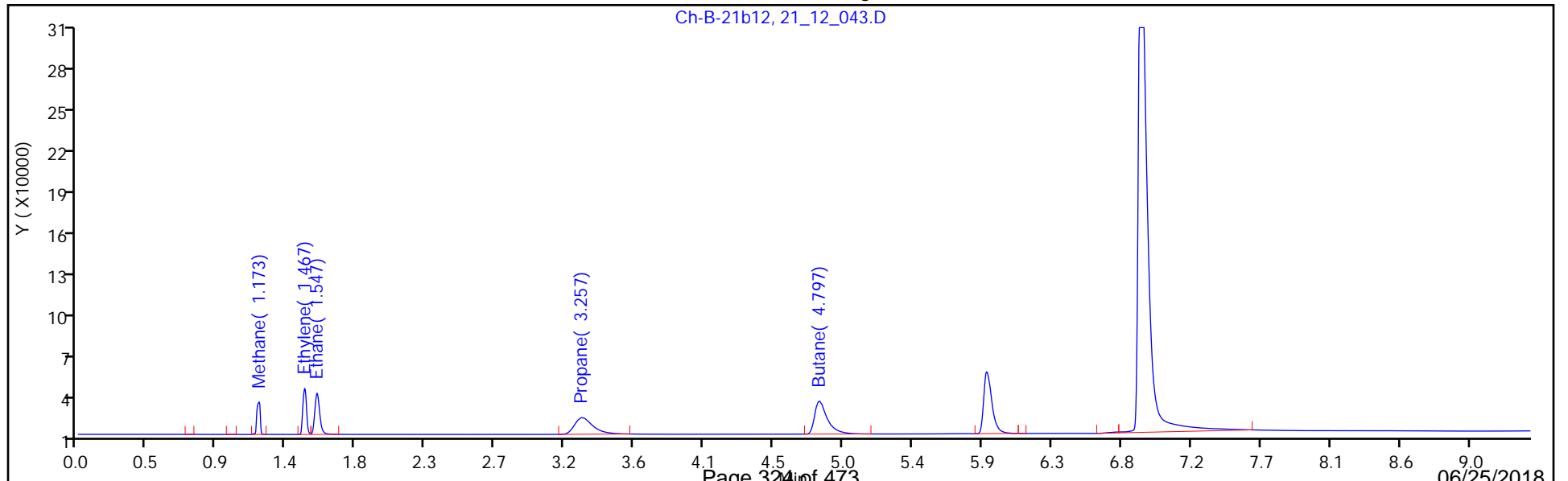
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53(mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1865		16.9	15.5	9.1	15.0
Ethane	Lin1		1867		30.4	29.1	4.5	15.0
Ethene	Lin1		1703		28.4	27.2	4.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.42	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_060.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Jun-2018 15:33:49 ALS Bottle#: 0 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:32:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK004

First Level Reviewer: clarkda Date: 19-Jun-2018 16:12:55

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28985	15.5	16.9	
2	1.173	1.173	0.000	39002	15.5	17.8	
2 Ethane							
1	1.750	1.753	-0.003	54399	29.1	30.4	
2	1.543	1.547	-0.004	72272	29.1	31.3	
3 Ethylene							
1	2.420	2.437	-0.017	46316	27.2	28.4	
2	1.467	1.467	0.000	59914	27.2	28.8	
4 Propane							
1	3.257	3.263	-0.006	83355	42.7	44.4	
2	3.260	3.257	0.003	110495	42.7	40.7	
5 Butane							
1	5.083	5.087	-0.004	111199	55.8	54.8	
2	4.793	4.797	-0.004	148052	55.8	53.9	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_060.D

Injection Date: 19-Jun-2018 15:33:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

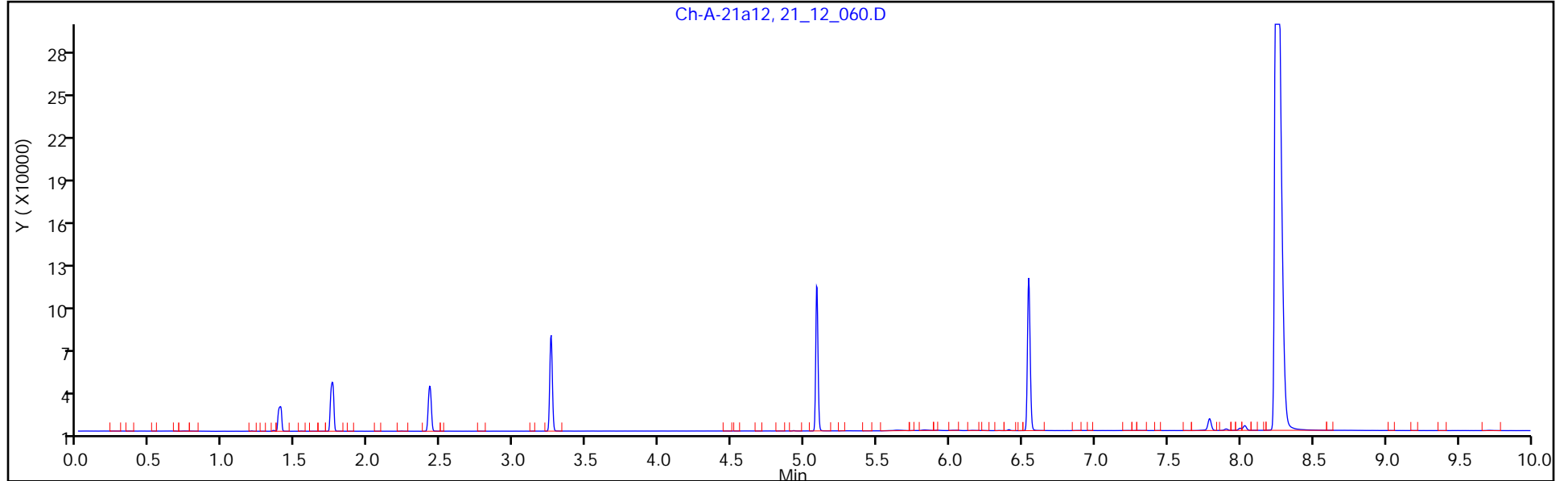
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

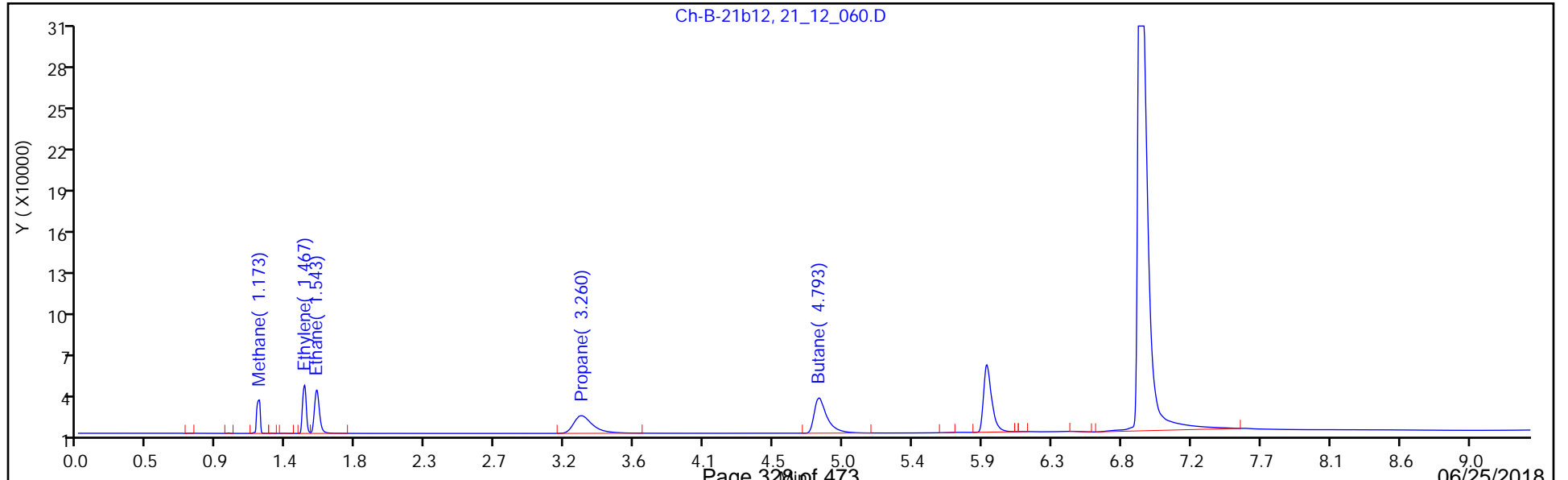
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420316/4
 Matrix: Water Lab File ID: 21_12_044.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 06/19/2018 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_044.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Jun-2018 09:55:06 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 10:26:44

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.393	1.393	0.000	1696		-2.23	
2	1.173	1.173	0.000	3111		-2.57	

2 Ethane

1	1.753	1.753	0.000	176		-5.04	
2	1.537	1.547	-0.010	111		-6.08	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_044.D

Injection Date: 19-Jun-2018 09:55:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

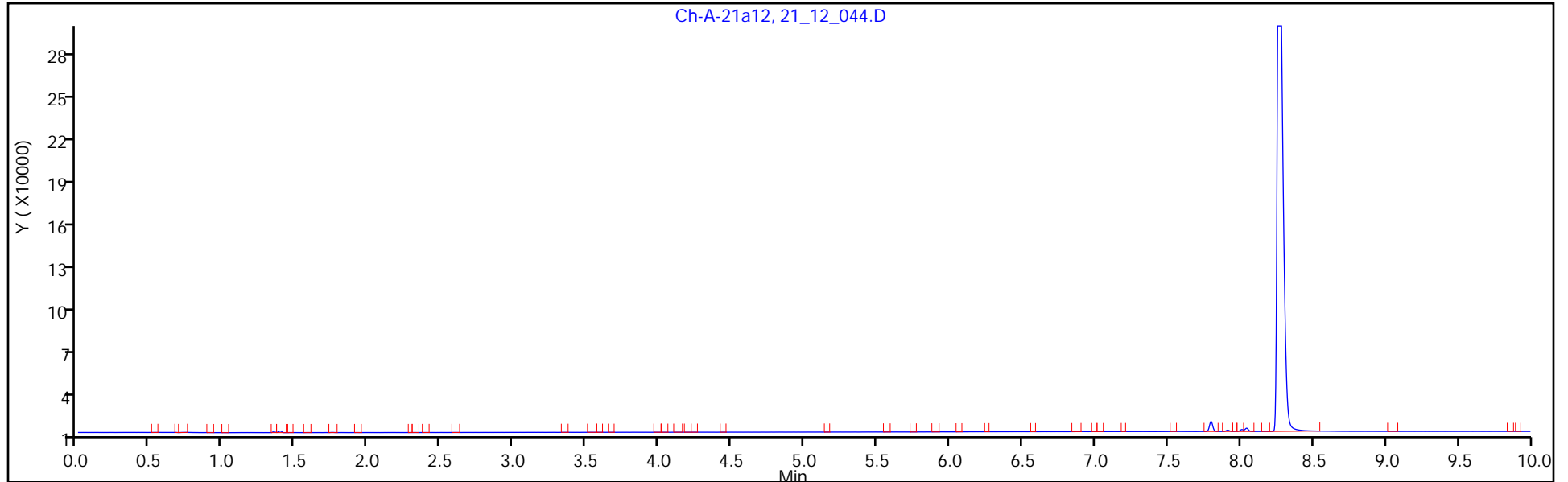
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

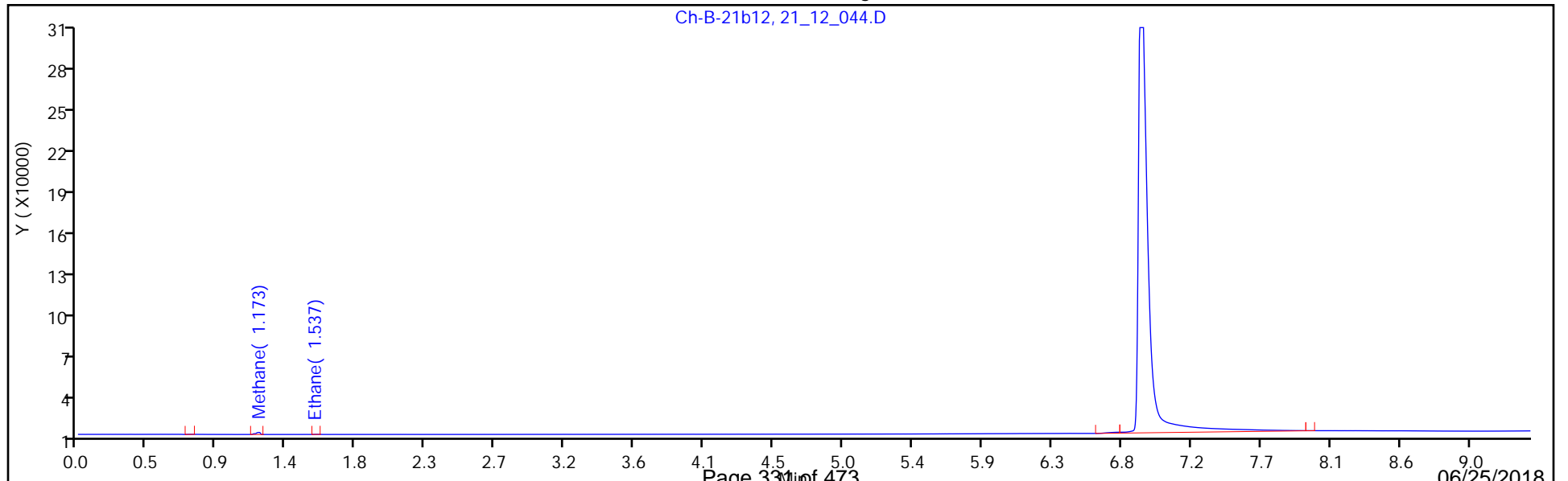
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-420316/5
 Matrix: Water Lab File ID: 21_12_045.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 06/19/2018 10:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	13.1		7.5	1.5
74-85-1	Ethene	12.0		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_045.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Jun-2018 10:12:36 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 11:10:38

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.393	1.393	0.000	15727	7.77	7.63	
2	1.173	1.173	0.000	21751	7.77	8.01	
2 Ethane							
1	1.753	1.753	0.000	27819	14.6	13.1	
2	1.547	1.547	0.000	37384	14.6	13.2	
3 Ethylene							
1	2.437	2.437	0.000	23436	13.6	12.0	
2	1.467	1.467	0.000	30920	13.6	12.0	
4 Propane							
1	3.263	3.263	0.000	42221	21.4	19.2	
2	3.257	3.257	0.000	21665	21.4	4.11	
5 Butane							
1	5.093	5.087	0.006	55686	27.9	25.0	
2	4.797	4.797	0.000	74890	27.9	23.2	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_045.D

Injection Date: 19-Jun-2018 10:12:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

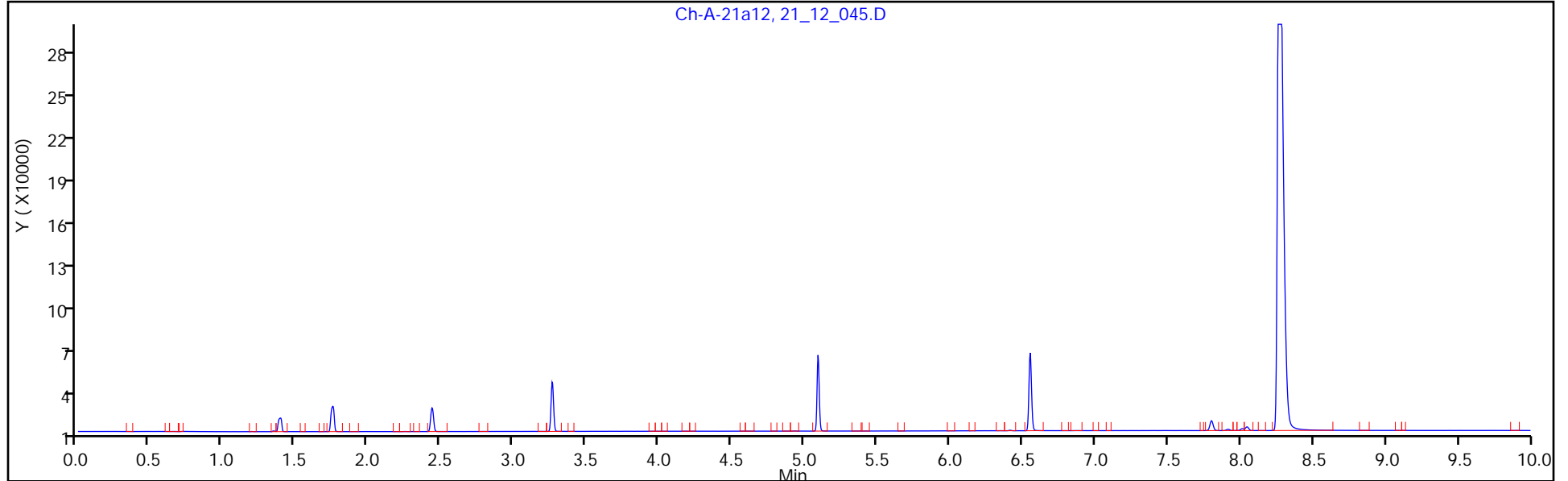
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

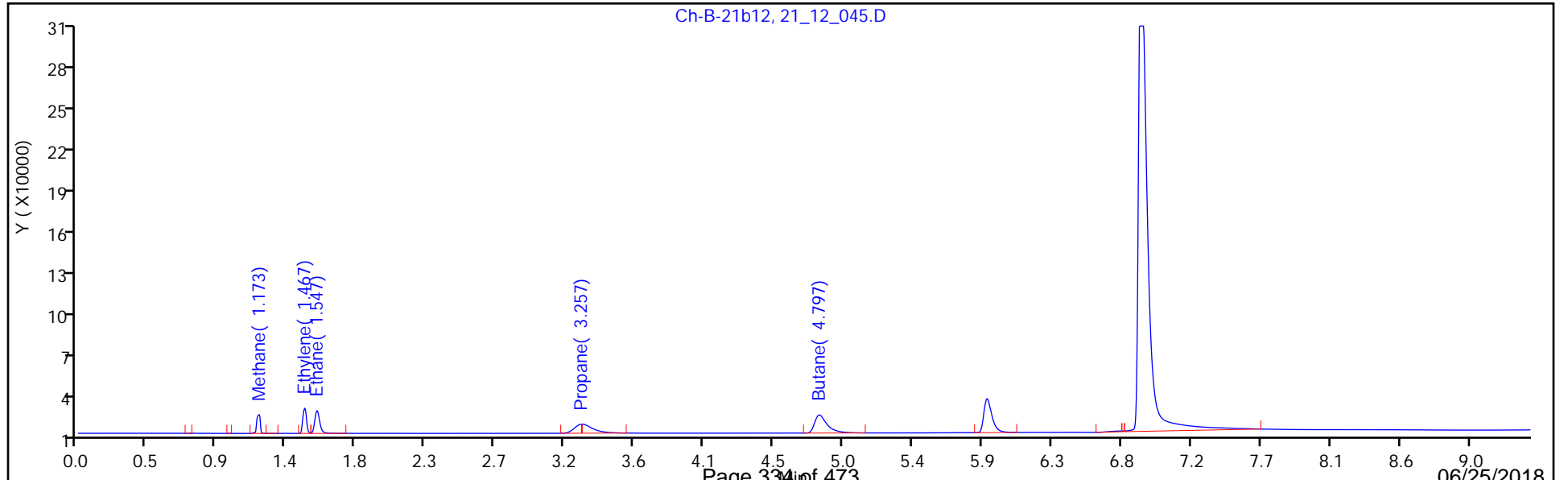
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-420316/6
 Matrix: Water Lab File ID: 21_12_046.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 10:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	13.8		7.5	1.5
74-85-1	Ethene	12.8		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_046.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 19-Jun-2018 10:30:06 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	16314	7.77	8.04	
2	1.173	1.173	0.000	22501	7.77	8.43	
2 Ethane							
1	1.753	1.753	0.000	28995	14.6	13.8	
2	1.547	1.547	0.000	38812	14.6	14.0	
3 Ethylene							
1	2.440	2.437	0.003	24516	13.6	12.8	
2	1.467	1.467	0.000	32368	13.6	12.8	
4 Propane							
1	3.267	3.263	0.004	44062	21.4	20.4	
2	3.263	3.257	0.006	58365	21.4	19.2	
5 Butane							
1	5.097	5.087	0.010	58571	27.9	26.6	
2	4.793	4.797	-0.004	78536	27.9	24.7	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_046.D

Injection Date: 19-Jun-2018 10:30:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

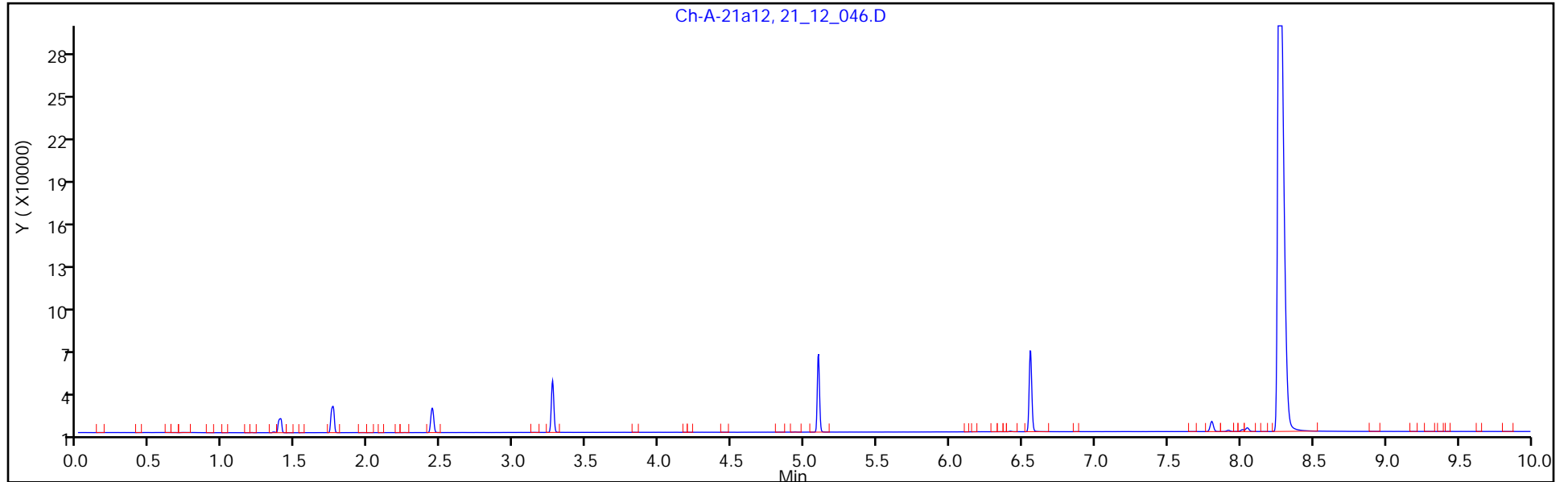
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

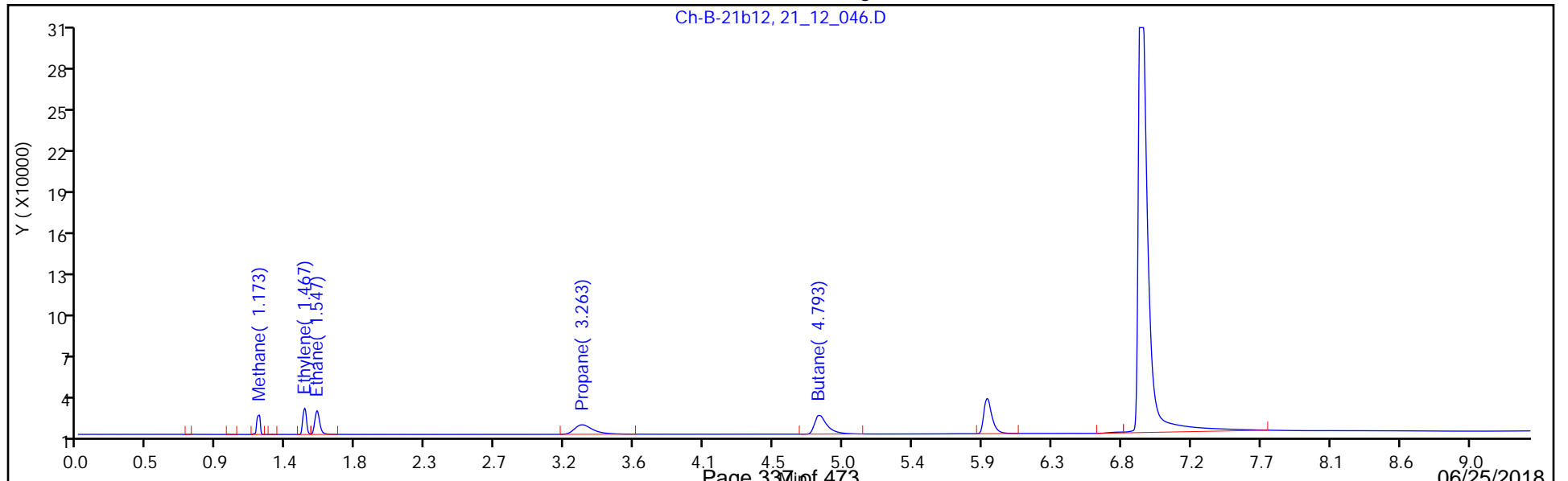
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137434-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 09/12/2017 08:34Analysis Batch Number: 376268End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137434-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 06/19/2018 09:02Analysis Batch Number: 420316End Date: 06/19/2018 15:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/19/2018 09:02	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:02	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 09:20	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:20	1		RTX-U Plot 0.32 (mm)
CCV 480-420316/3		06/19/2018 09:37	1	21_12_043.D	Alumina 0.53 (mm)
CCV 480-420316/3		06/19/2018 09:37	1		RTX-U Plot 0.32 (mm)
MB 480-420316/4		06/19/2018 09:55	1	21_12_044.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:55	1		RTX-U Plot 0.32 (mm)
LCS 480-420316/5		06/19/2018 10:12	1	21_12_045.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 10:12	1		RTX-U Plot 0.32 (mm)
LCSD 480-420316/6		06/19/2018 10:30	1	21_12_046.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 10:30	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 11:36	44		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 11:36	44		RTX-U Plot 0.32 (mm)
480-137434-2		06/19/2018 11:54	22	21_12_048.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 11:54	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:11	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:11	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:29	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:29	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:46	44		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:46	44		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:04	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:04	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:21	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:21	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:39	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:39	22		RTX-U Plot 0.32 (mm)
480-137434-1		06/19/2018 13:56	11	21_12_055.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:56	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:14	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:14	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:31	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:31	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:49	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:49	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 15:06	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 15:06	11		RTX-U Plot 0.32 (mm)
CCV 480-420316/20		06/19/2018 15:33	1	21_12_060.D	Alumina 0.53 (mm)
CCV 480-420316/20		06/19/2018 15:33	1		RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1

SDG No.: _____

Project: Former Emerson Street Landfill Project

Client Sample ID	Lab Sample ID
<u>LAB-SBW15</u>	<u>480-137434-1</u>
<u>LAB-SBW16</u>	<u>480-137434-2</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: LAB-SBW15

Lab Sample ID: 480-137434-1

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/13/2018 14:30

Reporting Basis: WET

Date Received: 06/14/2018 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	4.0	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	571	10.0	5.6	mg/L			20	9056A
14808-79-8	Sulfate	33.1	40.0	7.0	mg/L	J		20	9056A
15438-31-0	Ferrous Iron	0.080	0.10	0.075	mg/L	J	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: LAB-SBW16

Lab Sample ID: 480-137434-2

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/13/2018 10:15

Reporting Basis: WET

Date Received: 06/14/2018 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	363	10.0	5.6	mg/L			20	9056A
14808-79-8	Sulfate	ND	40.0	7.0	mg/L			20	9056A
15438-31-0	Ferrous Iron	0.086	0.10	0.075	mg/L	J	HF	1	SM 3500 FE D

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Analyst: MJB Batch Start Date: 06/20/2018

Reporting Units: mg/L Analytical Batch No.: 420675

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:40	Sulfide	9.60	10.2	94	90-110		Sulfide CCV_00237
2	CCB	10:40	Sulfide	ND					
13	CCV	10:40	Sulfide	9.60	10.2	94	90-110		Sulfide CCV_00237
14	CCB	10:40	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Analyst: DMR Batch Start Date: 06/20/2018
 Reporting Units: mg/L Analytical Batch No.: 420474

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	01:09	Chloride	46.45	50.0	93	90-110	7	IC_ANION_LCS__0020
			Sulfate	45.73	50.0	91	90-110		IC_ANION_LCS__0020
26	CCB	01:24	Chloride	ND				7	
			Sulfate	ND					
37	CCV	04:04	Chloride	46.49	50.0	93	90-110	7	IC_ANION_LCS__0020
			Sulfate	47.05	50.0	94	90-110		IC_ANION_LCS__0020
38	CCB	04:19	Chloride	ND				7	
			Sulfate	ND					
49	CCV	07:00	Chloride	47.31	50.0	95	90-110	7	IC_ANION_LCS__0020
			Sulfate	47.74	50.0	95	90-110		IC_ANION_LCS__0020
50	CCB	07:14	Chloride	ND				7	
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 06/18/2018
 Reporting Units: mg/L Analytical Batch No.: 420230

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:00	Ferrous Iron	1.79	2.00	90	90-110		FE 200ppm ICV 00022
2	CCB	13:00	Ferrous Iron	ND					
13	CCV	13:00	Ferrous Iron	2.11	2.00	105	90-110		FE 200ppm ICV 00022
14	CCB	13:00	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 420474 Date: 06/20/2018 01:53							
9056A	MB 480-420474/28	Chloride	ND		mg/L	0.50	1
9056A	MB 480-420474/28	Sulfate	ND		mg/L	2.0	1
Batch ID: 420230 Date: 06/18/2018 13:00							
SM 3500 FE D	MB 480-420230/3	Ferrous Iron	ND		mg/L	0.10	1
Batch ID: 420675 Date: 06/20/2018 10:40							
SM 4500 S2 F	MB 480-420675/3	Sulfide	ND		mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420474 Date: 06/20/2018 03:35											
9056A	480-137434-1	Chloride	571		mg/L						
9056A	480-137434-1	Chloride	1488		mg/L	1000	92	81-120			
		MS									
9056A	480-137434-1	Sulfate	33.1	J	mg/L						
9056A	480-137434-1	Sulfate	935.1		mg/L	1000	90	80-120			
		MS									

Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420474 Date: 06/20/2018 03:50											
9056A	480-137434-1	Chloride	1453		mg/L	1000	88	81-120	2	20	
	MSD										
9056A	480-137434-1	Sulfate	924.9		mg/L	1000	89	80-120	1	20	
	MSD										

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420474 Date: 06/20/2018 01:39											
						LCS Source: IC_ANION_LCS_00207					
9056A	LCS 480-420474/27	Chloride	46.27		mg/L	50.0	93	90-110			
9056A	LCS 480-420474/27	Sulfate	45.93		mg/L	50.0	92	90-110			
Batch ID: 420230 Date: 06/18/2018 13:00											
						LCS Source: FE 200ppm ICV_00022					
SM 3500 FE D	LCS 480-420230/4	Ferrous Iron	1.88		mg/L	2.00	94	90-110			
Batch ID: 420675 Date: 06/20/2018 10:40											
						LCS Source: Sulfide LCS_00237					
SM 4500 S2 F	LCS 480-420675/4	Sulfide	8.80		mg/L	8.80	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137434-1

SDG Number: _____

Matrix: Water

Instrument ID: LCHAT3

Method: 353.2

MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrite		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrite		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F MDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.67

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F XMDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		1	0.67

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137434-1

SDG Number: _____

Matrix: Water

Instrument ID: LCHAT3

Method: 353.2

MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137434-1

SDG Number: _____

Matrix: Water

Instrument ID: IC-1

Method: 9056A

MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: IC-1
Method: 9056A XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D MDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.075

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137434-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/15/2018 09:31 End Date: 06/15/2018 09:42

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 2 -N															
ZZZZZZ			09:31																
ZZZZZZ			09:32																
ZZZZZZ			09:33																
ZZZZZZ			09:39																
480-137434-1	1	T	09:41	X															
480-137434-2	1	T	09:42	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 4500 S2 F

Start Date: 06/20/2018 10:40 End Date: 06/20/2018 10:40

Lab Sample ID	D / F	T y p e	Time	Analytes																
				S 2																
ZZZZZZ			10:40																	
ZZZZZZ			10:40																	
ZZZZZZ			10:40																	
ZZZZZZ			10:40																	
ZZZZZZ			10:40																	
ZZZZZZ			10:40																	
CCV 480-420675/49			10:40																	
CCB 480-420675/50			10:40																	

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/15/2018 09:31 End Date: 06/15/2018 09:42

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
ZZZZZZ			09:31																
ZZZZZZ			09:32																
ZZZZZZ			09:33																
ZZZZZZ			09:39																
480-137434-1	1	T	09:41	X															
480-137434-2	1	T	09:42	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Instrument ID: IC-1 Method: 9056A

Start Date: 06/19/2018 19:19 End Date: 06/20/2018 07:14

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				C L -	S O 4																		
CCV 480-420474/1			19:19																				
CCB 480-420474/2			19:34																				
ZZZZZZ			19:49																				
ZZZZZZ			20:03																				
CCV 480-420474/13			22:14																				
CCB 480-420474/14			22:29																				
CCV 480-420474/25	1		01:09	X	X																		
CCB 480-420474/26	1		01:24	X	X																		
LCS 480-420474/27	1	T	01:39	X	X																		
MB 480-420474/28	1	T	01:53	X	X																		
480-137434-1	20	T	03:21	X	X																		
480-137434-1 MS	20	T	03:35	X	X																		
480-137434-1 MSD	20	T	03:50	X	X																		
CCV 480-420474/37	1		04:04	X	X																		
CCB 480-420474/38	1		04:19	X	X																		
480-137434-2	20	T	04:34	X	X																		
ZZZZZZ			06:30																				
ZZZZZZ			06:45																				
CCV 480-420474/49	1		07:00	X	X																		
CCB 480-420474/50	1		07:14	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Instrument ID: Genysis Spec2 Method: SM 3500 FE D

Start Date: 06/18/2018 13:00 End Date: 06/18/2018 13:00

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e r r o n															
CCV 480-420230/1	1		13:00	X															
CCB 480-420230/2	1		13:00	X															
MB 480-420230/3	1	T	13:00	X															
LCS 480-420230/4	1	T	13:00	X															
ZZZZZZ			13:00																
ZZZZZZ			13:00																
480-137434-1	1	T	13:00	X															
480-137434-2	1	T	13:00	X															
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
CCV 480-420230/13	1		13:00	X															
CCB 480-420230/14	1		13:00	X															
ZZZZZZ			13:00																
CCV 480-420230/16			13:00																
CCB 480-420230/17			13:00																

Prep Types
T = Total/NA

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions

Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4253342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD(MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4713322	Exp. 06/16/2018
Nitrite 1.5ppm CCV/ICV/LCS	4713323	Exp. 06/16/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L -1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples *mrf 61151B*
Chlorine strip lot 7342 *Aquachek*

449721 419832
MNF 6/15/18

Author: Buflachat3

Date : 6/15/2018

Original Run Filename: OM_6-15-2018_09-19-04AM.OMN Created: 6/15/2018 9:19:04 AM
 Original Run Author's Signature: [Buflachat3]
 Current Run Filename: OM_6-15-2018_09-19-04AM.OMN Last Modified: 6/15/2018 9:47:59 AM
 Current Run Author's Signature: [Buflachat3]
 Description: Default New Run

0.5 → 5ml
0.1 → 5ml

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.42	4.26	0.348	6/15/2018@9:20:09 AM	
Calibration:			Table/Fig. : 1				
CCV	1	S9	1.42	4.27	0.351	6/15/2018@9:21:17 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0455	-0.241	-0.0129	6/15/2018@9:22:25 AM	
Known Conc:			0.00				
MB	1	S10	-0.0443	-0.237	-0.0141	6/15/2018@9:23:34 AM	
Known Conc:			0.00				
LCS	1	S9	1.42	4.27	0.346	6/15/2018@9:24:41 AM	
Known Conc:			1.50				
480-137420-a-8	1	1	0.144	0.342	0.0276	6/15/2018@9:25:51 AM	
480-137420-a-8 DU	1	2	0.148	0.356	0.0284	6/15/2018@9:27:00 AM	
480-137420-a-8 MS	1	3	0.953	2.83	0.229	6/15/2018@9:28:09 AM	
480-137421-a-7	1	4	0.195	0.499	0.0393	6/15/2018@9:29:18 AM	
480-137422-c-1	1	5	0.0497	0.0523	7.09e-3	6/15/2018@9:30:26 AM	
480-137422-c-2	1	6	-0.0101	-0.132	-0.0102	6/15/2018@9:31:35 AM	
480-137423-b-1	1	7	-0.0210	-0.165	-0.0138	6/15/2018@9:32:43 AM	
480-137423-b-2	1	8	-0.0218	-0.168	-0.0104	6/15/2018@9:33:52 AM	
CCV	1	S9	1.39	4.18	0.335	6/15/2018@9:35:00 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0354	-0.210	-0.0127	6/15/2018@9:36:09 AM	
Known Conc:			0.00				
480-137423-b-4^10	1	9	2.06	6.24	0.497	6/15/2018@9:37:17 AM	
480-137423-b-5^50	1	10	1.68	5.07	0.408	6/15/2018@9:38:25 AM	
480-137426-a-1	1	11	-0.0206	-0.164	-0.0115	6/15/2018@9:39:33 AM	
480-137426-a-1*MS	1	12	0.254	0.682	0.0549	6/15/2018@9:40:41 AM	
480-137434-c-1	1	13	-9.03e-3	-0.129	-9.89e-3	6/15/2018@9:41:49 AM	
480-137434-c-2	1	14	-0.0148	-0.146	-9.16e-3	6/15/2018@9:42:57 AM	
480-137465-e-1	1	15	0.475	1.36	0.109	6/15/2018@9:44:05 AM	
CCV	1	S9	1.41	4.26	0.341	6/15/2018@9:45:13 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0340	-0.206	-0.0128	6/15/2018@9:46:22 AM	
Known Conc:			0.00				

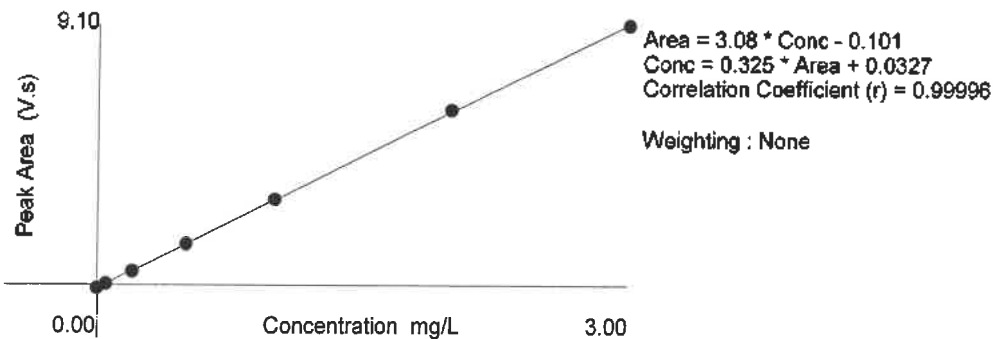
Analyte Properties Table for : OM_6-15-2018_09-19-04AM.OMN

Property	Channel 2
Concentration Units	Nitrate/Nitrite mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.10	0.712	0.0	0.5	2.99	6/14/2018	3:34:30 PM
2	2.00	1	6.12	0.480	0.0	-1.0	2.02	6/14/2018	3:35:38 PM
3	1.00	1	2.99	0.235	0.0	-0.5	1.00	6/14/2018	3:36:47 PM
4	0.500	1	1.44	0.113	0.0	0.1	0.499	6/14/2018	3:37:56 PM
5	0.200	1	0.492	0.0399	0.0	4.5	0.192	6/14/2018	3:39:05 PM
6	0.0500	1	0.0546	5.39e-3	0.0	-2.3	0.0505	6/14/2018	3:40:14 PM
7	0.00	1	-0.108	-8.72e-3			-2.19e-3	6/14/2018	3:41:23 PM

Figure : 1 (Nitrate/Nitrite)



419826

Author: Buflachat3

Date : 6/15/2018

Original Run Filename: OM_6-15-2018_09-57-12AM.OMN Created: 6/15/2018 9:57:12 AM
 Original Run Author's Signature: [Buflachat3]
 Current Run Filename: OM_6-15-2018_09-57-12AM.OMN Last Modified: 6/15/2018 10:20:43 AM
 Current Run Author's Signature: [Buflachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.44	4.58	0.502	6/15/2018@9:58:22 AM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-6.60e-3	-0.125	-6.84e-3	6/15/2018@9:59:28 AM	
		Known Conc:	100				
MB	1	S10	-8.74e-3	-0.197	-7.59e-3	6/15/2018@10:00:35 AM	
		Known Conc:	100				
LCS	1	S11	1.44	4.58	0.502	6/15/2018@10:01:41 AM	
		Known Conc:	100				
480-137420-A-8	1	1	-5.54e-4	-0.0880	-4.71e-3	6/15/2018@10:02:49 AM	
480-137420-A-8 du	1	2	-3.11e-3	-0.0958	-5.60e-3	6/15/2018@10:03:55 AM	
480-137420-A-8 ms	1	3	0.719	2.28	0.249	6/15/2018@10:05:02 AM	
480-137421-A-7	1	4	-2.18e-3	-0.0847	-5.28e-3	6/15/2018@10:06:09 AM	
480-137422-C-1	1	5	0.206	0.784	0.0679	6/15/2018@10:07:16 AM	
480-137423-B-4	1	6	0.0209	-0.0150	2.84e-3	6/15/2018@10:08:22 AM	
480-137423-B-5	1	7	0.0609	0.169	0.0169	6/15/2018@10:09:28 AM	
480-137465-E-1	1	8	0.0995	0.275	0.0305	6/15/2018@10:10:35 AM	
CCV	1	S11	1.43	4.58	0.500	6/15/2018@10:11:41 AM	
		Known Conc:	100				
CCB	1	S10	-8.03e-3	-0.132	-7.34e-3	6/15/2018@10:12:47 AM	
		Known Conc:	100				
480-137422-C-1	1	9	0.196	0.752	0.0644	6/15/2018@10:13:53 AM	
480-137422-C-1 ms	1	10	0.638	2.25	0.220	6/15/2018@10:15:00 AM	
480-137423-B-5	1	11	0.0653	0.183	0.0185	6/15/2018@10:16:05 AM	
480-137465-E-1	1	12	0.101	0.279	0.0312	6/15/2018@10:17:11 AM	
CCV	1	S11	1.43	4.60	0.500	6/15/2018@10:18:18 AM	
		Known Conc:	100				
CCB	1	S10	-5.76e-3	-0.106	-6.54e-3	6/15/2018@10:19:24 AM	
		Known Conc:	100				

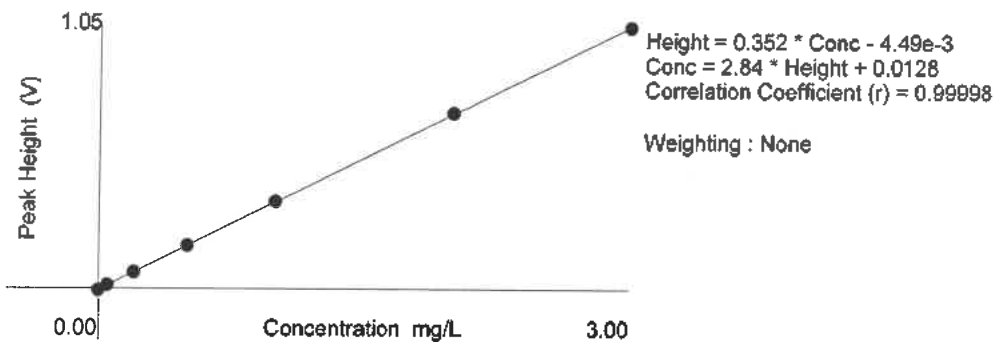
Analyte Properties Table for : OM_6-15-2018_09-57-12AM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.60	1.05	0.0	0.3	2.99	6/14/2018	5:46:10 PM
2	2.00	1	6.42	0.704	0.0	-0.6	2.01	6/14/2018	5:47:16 PM
3	1.00	1	3.16	0.350	0.0	-0.6	1.01	6/14/2018	5:48:23 PM
4	0.500	1	1.56	0.172	0.0	-0.1	0.501	6/14/2018	5:49:29 PM
5	0.200	1	0.590	0.0654	0.0	0.8	0.199	6/14/2018	5:50:36 PM
6	0.0500	1	0.128	0.0140	0.0	-6.7	0.0525	6/14/2018	5:51:44 PM
7	0.00	1	-0.147	-7.87e-3			-9.54e-3	6/14/2018	5:52:50 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 419832

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Data	
									Fail 3-Sigma Limits	Fail Client Limits
480-137423-B-1	MW-5A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N5	1.0	1.0	ND	<input type="checkbox"/>	0 - 0
480-137423-B-2	MW-7A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	ND	<input type="checkbox"/>	0 - 0.576
480-137423-B-4	10MW-6A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N5	10.0	10.0	20.6	<input type="checkbox"/>	18.159 - 23.075
480-137423-B-5	50MW-11	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N6	50.0	50.0	84.0	<input type="checkbox"/>	34.791 - 133.776
480-137426-A-1	WSW	353.2	Nitrate Nitrite as N	Dissolved	mg/L	6	1.0	ND	<input type="checkbox"/>	0 - 0
480-137465-E-1	Leachate #1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	0.48	<input type="checkbox"/>	0 - 5.093

Historical Data Summary Report

For Batch 419826

Lab Sample ID	Client Sample	Method	Analyze	Prep Type	Unit	Data			Result	Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution	Fail			
480-137423-B-4	MW-6A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	0.021	<input type="checkbox"/> 0 - 0.552	<input type="checkbox"/> 0 - 0.516	
480-137423-B-5	MW-11	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	0.061	<input type="checkbox"/> 0 - 5.215	<input type="checkbox"/> 0 - 3.48	
480-137465-E-1	Leachate #1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	0.10	<input type="checkbox"/> 0 - 0.231	<input type="checkbox"/> 0 - 0.216	

Revision 2 October 2016

Batch **420675**

Analyst	MJB
Date	6/20/2018
Start Time	10:40
End Time	14:58

Reporting Limit Information (mg/L)	
EQL	1.0

Standard Information	
Reagent	Normality ID
Iodine Solution	4449717
Sodium Thiosulfate	4487459
Starch Indicator	4454657
HCL	4716898

Standard Information	
CCV ID	4721105
Stock Conc.	1020
CCV Conc	10.20
LCS ID	4721106
Stock Conc.	880
LCS Conc	8.80

EPENDORFS
L35049C
Q38829C
L11230D

Job #	Sample ID	Sample Volume (mL)	Iodine Volume (ml)	Starting Point of Titrant on		Ending Point of Titrant on		Na2S2O3 Titrant (mL)	Final Sulfide conc. mg/l	Recovery %	Comments
				Burette		Burette					
CCV	CCV	100	5	0.00		2.60		2.60	9.60	94.12	
CCB	CCB	100	1	2.60		3.60		1.00	0.00		
Blank	MB	100	1	3.60		4.60		1.00	0.00		
LCS	LCS	100	5	4.60		7.40		2.80	8.80	100.00	
580-78020	C1	25	1	7.40		8.10		0.70	4.80		
ASTM	MB	100	1	8.10		9.10		1.00	0.00		
137458	E8	100	1	9.10		10.10		1.00	0.00		
137458	E8-MS	100	2	10.10		11.50		1.40	2.40		
137458	E8-MSD	100	2	11.50		12.90		1.40	2.40		
137434	A1	100	2	12.90		13.90		1.00	4.00		
137434	A2	100	1	13.90		14.90		1.00	0.00		
137453	H1	100	1	14.90		15.90		1.00	0.00		
CCV	CCV	100	5	15.90		18.50		2.60	9.60	94.12	
CCB	CCB	100	1	18.50		19.50		1.00	0.00		
137453	H2	100	1	19.50		20.50		1.00	0.00		
137453	H3	100	1	20.50		21.50		1.00	0.00		
137458	E1	100	1	21.50		22.50		1.00	0.00		
137458	E2	100	1	22.50		23.50		1.00	0.00		
137458	E3	100	1	23.50		24.50		1.00	0.00		
137458	E5	100	1	24.50		25.50		1.00	0.00		
137458	E6	100	1	25.50		26.50		1.00	0.00		
137458	E7	100	1	26.50		27.50		1.00	0.00		
137458	E9	100	1	27.50		28.50		1.00	0.00		
137458	E10	100	1	28.50		29.50		1.00	0.00		
CCV	CCV	100	5	29.50		32.10		2.60	9.60	94.12	
CCB	CCB	100	1	32.10		33.10		1.00	0.00		
MB	MB	100	1	33.10		34.10		1.00	0.00		
LCS	LCS	100	5	34.10		36.90		2.80	8.80	100.00	
137458	E11	100	1	36.90		37.90		1.00	0.00		
137458	E12	100	1	37.90		38.90		1.00	0.00		
137458	E13	100	1	38.90		39.90		1.00	0.00		

Analyst	MJB
Date	6/20/2018
Start Time	10:40
End Time	14:58

Reporting Limit Information (mg/L)	1.0
EQL	

Batch	430675
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Standard Information	
Reagent	Normality ID
Iodine Solution	4449717
Sodium Thiosulfate	4487459
Starch Indicator	4454657
HCL	4716898

Standard Information	
CCV ID	4721105
Stock Conc.	1020
CCV Conc	10.20
LCS ID	4721106
Stock Conc.	880
LCS Conc	8.80

EPENDORFS

L35049C
 Q38829C
 L11230D

Job #	Sample ID	Sample Volume (mL)	Iodine Volume (ml)	Starting Point of Titrant on		Ending Point of Titrant on	NazS ₂ O ₃ Titrant (mL)	Final Sulfide conc. mg/l	Recovery %	Comments
				Burette	Burette					
137544	E8	100	1	39.90	40.90	40.90	1.00	0.00		
137544	E9	100	1	40.90	41.90	41.90	1.00	0.00		
137544	E10	100	1	41.90	42.90	42.90	1.00	0.00		
137544	E11	100	1	42.90	43.90	43.90	1.00	0.00		
137544	E12	100	1	43.90	44.90	44.90	1.00	0.00		
CCV	CCV	100	5	44.90	47.40	47.40	2.50	10.00	98.04	
CCB	CCB	100	1	0.00	1.00	1.00	1.00	0.00		
137544	E13	100	1	1.00	2.00	2.00	1.00	0.00		
137549	N1	100	1	2.00	3.00	3.00	1.00	0.00		
137610	E1	100	1	3.00	4.00	4.00	1.00	0.00		
137546	E1	100	1	4.00	5.00	5.00	1.00	0.00		
137546	E2	100	1	5.00	6.00	6.00	1.00	0.00		
137546	E3	100	1	6.00	7.00	7.00	1.00	0.00		
137546	E4	100	1	7.00	8.00	8.00	1.00	0.00		
137546	E5	100	1	8.00	9.00	9.00	1.00	0.00		
137546	E5-MS	100	2	9.00	10.50	10.50	1.50	2.00		
137546	E5-MSD	100	2	10.50	12.00	12.00	1.50	2.00		
CCV	CCV	100	5	12.00	14.50	14.50	2.50	10.00	98.04	
CCB	CCB	100	1	14.50	15.50	15.50	1.00	0.00		

Sulfide Stock Solution Standardization
for method SM 4500 S2F

Add 5.0 mL of 0.025N iodine solution to a 250 mL flask
 Add 1.0 mL of 6N HCl
 Add 1.0 mL of 1000 ppm pre-certified Sodium Sulfide below the surface of the Iodine solution
 Dilute to 100 mL with reagent water
 Add 1 dropper of starch indicator
 Titrate with 0.025N Sodium Thiosulfate until the endpoint is reached (blue color disappears)

Repeat twice and average the results

The standardized sodium sulfide concentration is calculated as follows:

$$S = [(A \times B) - (C \times D)] \times 16,000 / E$$

Where:

- A = Volume of iodine solution (5.0 mL)
- B = Normality of iodine solution (0.025N)
- C = Volume of Na₂S₂O₃ solution (Determined by standardization)
- D = Normality of Na₂S₂O₃ solution (0.025N)
- E = Volume of sulfide stock (1.0 mL)
- S = Concentration of sulfide stock

The standardization procedure must be completed for both the primary source standard used for the CCV/MS and the secondary source standard for the LCS

Date:	<input type="text" value="6/20/2018"/>	0.025N Iodine	<u>TALS ID:</u>
		0.025N Sodium Thiosulfate	4449717
CCV/MS			4487459

mL Na ₂ S ₂ O ₃ used for Titration 1:	2.50
mL Na ₂ S ₂ O ₃ used for Titration 2:	2.40
Avg mL:	<input type="text" value="2.45"/>

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under CCV "Stock Conc."
 STOCK Reagent ID 4675841 The actual concentration of the CCV will calculate automatically
 NEW Reagent ID (CCV/MS) 4721105

LCS

mL Na ₂ S ₂ O ₃ used for Titration 1:	2.70
mL Na ₂ S ₂ O ₃ used for Titration 2:	2.90
Avg mL:	<input type="text" value="2.80"/>

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under LCS "Stock Conc."
 STOCK Reagent ID 4683225 The actual concentration of the LCS will calculate automatically
 NEW Reagent ID (LCS) 4721106

Historical Data Summary Report

For Batch 420675

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data		Result	Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution			
480-137453-H-1	MW-22	SM4500_S2_Sulfide		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137453-H-2	MW-31	SM4500_S2_Sulfide		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137453-H-3	MW-32	SM4500_S2_Sulfide		Total/NA	mg/L	3	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-1	DUP1	SM4500_S2_Sulfide		Total/NA	ug/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-10	MW41S	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-11	MW51R	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-12	MW5SR	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-13	MW6S	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-2	DUP2	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-3	FIELD BLANK02	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-5	MW06I	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-6	MW10I	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-7	MW10S	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-8	MW13IR	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137458-E-9	MW38S	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-1	G142	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-2	FIELD BLANK03	SM4500_S2_Sulfide		Total/NA	ug/L	2	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-3	MW12IR	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-4	MW12SR	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-5	MW21R	SM4500_S2_Sulfide		Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137549-N-1	MW-20	SM4500_S2_Sulfide		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137610-E-1	EL-GWMMW20S-01	SM4500_S2_Sulfide		Total/NA	ug/L	1	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Solutions

Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4253342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD(MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4713322	Exp. 06/16/2018
Nitrite 1.5ppm CCV/ICV/LCS	4713323	Exp. 06/16/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L -1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%
RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm – 5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples

mrf 61151B
Chlorine strip lot 7342 *Aquachek*

449721 419832
MNF 6/15/18

Author: Buflachat3

Date : 6/15/2018

Original Run Filename: OM_6-15-2018_09-19-04AM.OMN Created: 6/15/2018 9:19:04 AM
 Original Run Author's Signature: [Buflachat3]
 Current Run Filename: OM_6-15-2018_09-19-04AM.OMN Last Modified: 6/15/2018 9:47:59 AM
 Current Run Author's Signature: [Buflachat3]
 Description: Default New Run

0.5 → 5ml
0.1 → 5ml

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.42	4.26	0.348	6/15/2018@9:20:09 AM	
Calibration:			Table/Fig. : 1				
CCV	1	S9	1.42	4.27	0.351	6/15/2018@9:21:17 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0455	-0.241	-0.0129	6/15/2018@9:22:25 AM	
Known Conc:			0.00				
MB	1	S10	-0.0443	-0.237	-0.0141	6/15/2018@9:23:34 AM	
Known Conc:			0.00				
LCS	1	S9	1.42	4.27	0.346	6/15/2018@9:24:41 AM	
Known Conc:			1.50				
480-137420-a-8	1	1	0.144	0.342	0.0276	6/15/2018@9:25:51 AM	
480-137420-a-8 DU	1	2	0.148	0.356	0.0284	6/15/2018@9:27:00 AM	
480-137420-a-8 MS	1	3	0.953	2.83	0.229	6/15/2018@9:28:09 AM	
480-137421-a-7	1	4	0.195	0.499	0.0393	6/15/2018@9:29:18 AM	
480-137422-c-1	1	5	0.0497	0.0523	7.09e-3	6/15/2018@9:30:26 AM	
480-137422-c-2	1	6	-0.0101	-0.132	-0.0102	6/15/2018@9:31:35 AM	
480-137423-b-1	1	7	-0.0210	-0.165	-0.0138	6/15/2018@9:32:43 AM	
480-137423-b-2	1	8	-0.0218	-0.168	-0.0104	6/15/2018@9:33:52 AM	
CCV	1	S9	1.39	4.18	0.335	6/15/2018@9:35:00 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0354	-0.210	-0.0127	6/15/2018@9:36:09 AM	
Known Conc:			0.00				
480-137423-b-4^10	1	9	2.06	6.24	0.497	6/15/2018@9:37:17 AM	
480-137423-b-5^50	1	10	1.68	5.07	0.408	6/15/2018@9:38:25 AM	
480-137426-a-1	1	11	-0.0206	-0.164	-0.0115	6/15/2018@9:39:33 AM	
480-137426-a-1*MS	1	12	0.254	0.682	0.0549	6/15/2018@9:40:41 AM	
480-137434-c-1	1	13	-9.03e-3	-0.129	-9.89e-3	6/15/2018@9:41:49 AM	
480-137434-c-2	1	14	-0.0148	-0.146	-9.16e-3	6/15/2018@9:42:57 AM	
480-137465-e-1	1	15	0.475	1.36	0.109	6/15/2018@9:44:05 AM	
CCV	1	S9	1.41	4.26	0.341	6/15/2018@9:45:13 AM	
Known Conc:			1.50				
CCB	1	S10	-0.0340	-0.206	-0.0128	6/15/2018@9:46:22 AM	
Known Conc:			0.00				

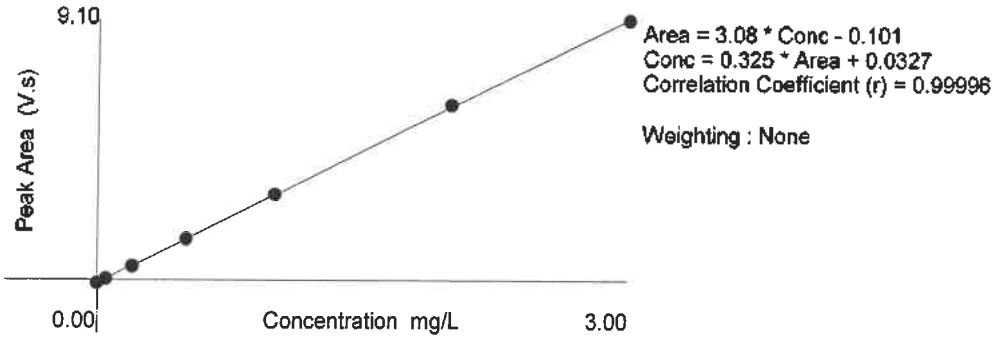
Analyte Properties Table for : OM_6-15-2018_09-19-04AM.OMN

Property	Channel 2
Concentration Units	Nitrate/Nitrite mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.10	0.712	0.0	0.5	2.99	6/14/2018	3:34:30 PM
2	2.00	1	6.12	0.480	0.0	-1.0	2.02	6/14/2018	3:35:38 PM
3	1.00	1	2.99	0.235	0.0	-0.5	1.00	6/14/2018	3:36:47 PM
4	0.500	1	1.44	0.113	0.0	0.1	0.499	6/14/2018	3:37:56 PM
5	0.200	1	0.492	0.0399	0.0	4.5	0.192	6/14/2018	3:39:05 PM
6	0.0500	1	0.0546	5.39e-3	0.0	-2.3	0.0505	6/14/2018	3:40:14 PM
7	0.00	1	-0.108	-8.72e-3			-2.19e-3	6/14/2018	3:41:23 PM

Figure : 1 (Nitrate/Nitrite)



419826

Author: Buflachat3

Date : 6/15/2018

Original Run Filename: OM_6-15-2018_09-57-12AM.OMN Created: 6/15/2018 9:57:12 AM
 Original Run Author's Signature: [Buflachat3]
 Current Run Filename: OM_6-15-2018_09-57-12AM.OMN Last Modified: 6/15/2018 10:20:43 AM
 Current Run Author's Signature: [Buflachat3]
 Description: Default New Run

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.44	4.58	0.502	6/15/2018@9:58:22 AM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-6.60e-3	-0.125	-6.84e-3	6/15/2018@9:59:28 AM	
		Known Conc:	100				
MB	1	S10	-8.74e-3	-0.197	-7.59e-3	6/15/2018@10:00:35 AM	
		Known Conc:	100				
LCS	1	S11	1.44	4.58	0.502	6/15/2018@10:01:41 AM	
		Known Conc:	100				
480-137420-A-8	1	1	-5.54e-4	-0.0880	-4.71e-3	6/15/2018@10:02:49 AM	
480-137420-A-8 du	1	2	-3.11e-3	-0.0958	-5.60e-3	6/15/2018@10:03:55 AM	
480-137420-A-8 ms	1	3	0.719	2.28	0.249	6/15/2018@10:05:02 AM	
480-137421-A-7	1	4	-2.18e-3	-0.0847	-5.28e-3	6/15/2018@10:06:09 AM	
480-137422-C-1	1	5	0.206	0.784	0.0679	6/15/2018@10:07:16 AM	
480-137423-B-4	1	6	0.0209	-0.0150	2.84e-3	6/15/2018@10:08:22 AM	
480-137423-B-5	1	7	0.0609	0.169	0.0169	6/15/2018@10:09:28 AM	
480-137465-E-1	1	8	0.0995	0.275	0.0305	6/15/2018@10:10:35 AM	
CCV	1	S11	1.43	4.58	0.500	6/15/2018@10:11:41 AM	
		Known Conc:	100				
CCB	1	S10	-8.03e-3	-0.132	-7.34e-3	6/15/2018@10:12:47 AM	
		Known Conc:	100				
480-137422-C-1	1	9	0.196	0.752	0.0644	6/15/2018@10:13:53 AM	
480-137422-C-1 ms	1	10	0.638	2.25	0.220	6/15/2018@10:15:00 AM	
480-137423-B-5	1	11	0.0653	0.183	0.0185	6/15/2018@10:16:05 AM	
480-137465-E-1	1	12	0.101	0.279	0.0312	6/15/2018@10:17:11 AM	
CCV	1	S11	1.43	4.60	0.500	6/15/2018@10:18:18 AM	
		Known Conc:	100				
CCB	1	S10	-5.76e-3	-0.106	-6.54e-3	6/15/2018@10:19:24 AM	
		Known Conc:	100				

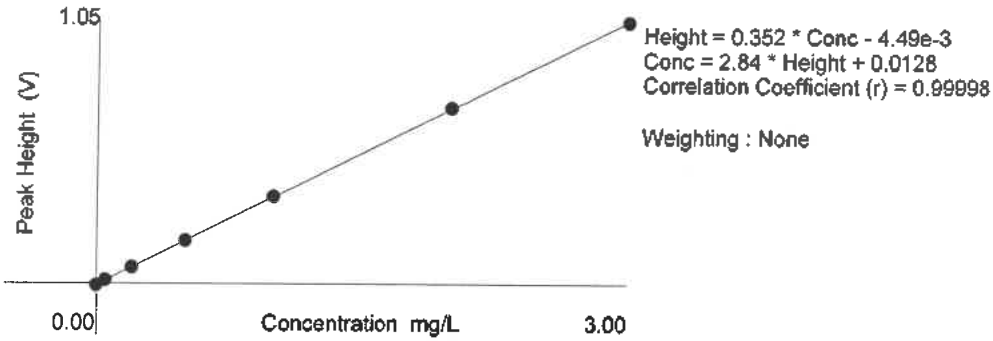
Analyte Properties Table for : OM_6-15-2018_09-57-12AM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.60	1.05	0.0	0.3	2.99	6/14/2018	5:46:10 PM
2	2.00	1	6.42	0.704	0.0	-0.6	2.01	6/14/2018	5:47:16 PM
3	1.00	1	3.16	0.350	0.0	-0.6	1.01	6/14/2018	5:48:23 PM
4	0.500	1	1.56	0.172	0.0	-0.1	0.501	6/14/2018	5:49:29 PM
5	0.200	1	0.590	0.0654	0.0	0.8	0.199	6/14/2018	5:50:36 PM
6	0.0500	1	0.128	0.0140	0.0	-6.7	0.0525	6/14/2018	5:51:44 PM
7	0.00	1	-0.147	-7.87e-3			-9.54e-3	6/14/2018	5:52:50 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 419832

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Data	
									Fail 3-Sigma Limits	Fail Client Limits
480-137423-B-1	MW-5A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N5	1.0	1.0	ND	<input type="checkbox"/>	0 - 0
480-137423-B-2	MW-7A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	ND	<input type="checkbox"/>	0 - 0.576
480-137423-B-4	10MW-6A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N5	10.0	10.0	20.6	<input type="checkbox"/>	18.159 - 23.075
480-137423-B-5	50MW-11	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N6	50.0	50.0	84.0	<input type="checkbox"/>	34.791 - 133.776
480-137426-A-1	WSW	353.2	Nitrate Nitrite as N	Dissolved	mg/L	6	1.0	ND	<input type="checkbox"/>	0 - 0
480-137465-E-1	Leachate #1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	1.0	1.0	0.48	<input type="checkbox"/>	0 - 5.093

Historical Data Summary Report

For Batch 419826

Lab Sample ID	Client Sample	Method	Analyze	Prep Type	Unit	Data			Result	Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution	Fail			
480-137423-B-4	MW-6A	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	0.021	<input type="checkbox"/> 0 - 0.552	<input type="checkbox"/> 0 - 0.516	
480-137423-B-5	MW-11	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	0.061	<input type="checkbox"/> 0 - 5.215	<input type="checkbox"/> 0 - 3.48	
480-137465-E-1	Leachate #1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N6	1.0	1.0	0.10	<input type="checkbox"/> 0 - 0.231	<input type="checkbox"/> 0 - 0.216	

Ion Chromatography Data Review Checklist

LIMS Batch Number: 4/9997-420000	Work List Number: 7239	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: CA	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate ICAL		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		✓	
2. Elution order of analytes in ICAL confirmed to be correct		Y		✓	
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y		✓	
4. ICV, second source: run before samples 90-110% recovery		Y		✓	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)	NA			NA	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y		✓	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	NA			NA	If no, list details:
8. Pk Area: Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	NA			NA	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?	NA			NA	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chruns, date, initial, & reason)		Y		✓	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:	NA			NA	<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:	NA			NA	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:	~ NA			NA	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%	~ NA			NA	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	~ NA		NA	
b. All crossed out data is initialed and dated	~ NA		NA	
c. Out of control QC is clearly identified	~ NA		NA	
d. Any data that has a qualifier tick is commented on with appropriate action taken	~ NA		NA	memo 6/18/18
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		✓	
16. Run Log				
a. Unused data is clearly identified	~ NA		NA	
b. All crossed out data is initialed and dated	~ NA		NA	
c. Analyst initials/signature provided	Y		✓	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	~ NA		NA	
b. Method and matrix are correct	~ NA		NA	
c. Date and time match raw data	Y		✓	
d. Dilutions are correct	~ NA		NA	
e. Correct suffix designated (where applicable)	~ NA		NA	
18. TALS Worksheet Tab is complete and correct	Y		✓	
19. TALS Reagent Tab is complete and correct	Y		✓	
20. TALS QC Links Tab is correct	~ NA		✓	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	~ NA		NA	
b. All reported analytes are marked Primary or Secondary	~ NA		NA	
22. TALS Batch Information Screen documentation is complete	Y		✓	
23. TALS Status set to appropriate review level	Y		✓	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			✓	
25. Results for samples and QC correct on final report?			✓	
26. Are all necessary scanned documents in TALS?			✓	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			✓	

2nd Reviewer: mrp Review Date: 6/18/18

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180616 ICAL
 Instrument Name: IC-1
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b
 Upload Directory: \\CorpTALSAPP1\7480-BF-RawData\Organics\MS\IC-1

Worklist Number: 72391
 Chrom Method: IC1-300
 Units: ul

Cleodora Williams

CA

Worklist ID	Limis ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072391-001	# 1 Blank		Client		SV	5.000	mL	1.000
480-0072391-002	# 2 CCV	IC_ANION_LCS_00207	CCV		SV	5.000	mL	1.000
480-0072391-003	# 3 CCV	IC_ANION_LCS_00207	CCV		SV	5.000	mL	1.000
480-0072391-004	# 4 Blank		Client		SV	5.000	mL	1.000
480-0072391-005	# 5 IC - STD1	IC_ANION_STD_00036	IC	1	SV	5.000	mL	1.000
480-0072391-006	# 6 IC - STD2	IC_ANION_STD_00036	IC	2	SV	5.000	mL	1.000
480-0072391-007	# 7 IC - STD3	IC_ANION_STD_00036	IC	3	SV	5.000	mL	1.000
480-0072391-008	# 8 IC - STD4	IC_ANION_STD_00036	IC	4	SV	5.000	mL	1.000
480-0072391-009	# 9 IC - STD5	IC_ANION_STD_00036	IC	5	SV	5.000	mL	1.000
480-0072391-010	# 10 IC - STD6	IC_ANION_STD_00036	IC	6	SV	5.000	mL	1.000
480-0072391-011	# 11 ICV	IC ERA_00018	ICV		SV	5.000	mL	1.000
480-0072391-012	# 12 ICB		ICB		SV	5.000	mL	1.000

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m

Instrument: IC-1

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 16-Jun-2018 15:20:02

No.Compounds:5

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.830	3.833	3.817	3.830	3.833	3.837	3.830	0.183	3.833
E 2 Chloride	5.137	5.117	5.097	5.123	5.077	5.053	5.101	0.614	5.077
5 Sulfate	6.637	6.577	6.597	6.610	6.470	6.407	6.549	1.382	6.470
3 Bromide	8.037	8.023	8.010	8.033	7.950	7.943	7.999	0.525	7.950

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Instrument: IC-1 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Jun-2018 15:20:02
 No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b
 Inj Date : 16-Jun-2018 11:46:02, Sublist: chrom-IC1-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rsq/ Rsd	R ² / COD	Flags
1 Fluoride	58360	55955	58986	59106	55246	53271	104	56339	WLinr	4.4	0.998	
E 2 Chloride	33326	35272	34648	35222	33700	34329	342	34258	WLinr	3.1	1.000	
5 Sulfate	28160	27071	26759	27025	25921	25745	1841	25927	WLinr	3.6	1.000	
3 Bromide	11600	11660	12776	14251	14693	14833	-141	13956	WLinr	8.1	0.994	
	-0.1	-1.6	4.3	4.8	-2.0	-5.5						
	-4.7	2.5	0.9	2.8	-1.6	0.2						
	-5.6	0.9	1.8	3.9	-0.2	-0.8						
	3.3	-11.4	-6.4	2.6	5.5	6.4						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m

Instrument: IC-1

Lims Location: 480

Lock State: initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 16-Jun-2018 15:20:02

No. Compounds: 5

Limit Group: MB 9056 ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.830	3.833	3.817	3.830	3.833	3.837	3.830	0.183	3.833
E 2 Chloride	5.137	5.117	5.097	5.123	5.077	5.053	5.101	0.614	5.077
5 Sulfate	6.637	6.577	6.597	6.610	6.470	6.407	6.549	1.382	6.470
3 Bromide	8.037	8.023	8.010	8.033	7.950	7.943	7.999	0.525	7.950

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Instrument: IC-1 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Faicon Last Modified: 16-Jun-2018 15:20:02
 No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b
 Inj Date : 16-Jun-2018 11:46:02, Sublist: chrom-IC1-300*sub2

Limit Group: MB 9056 ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rad	R ² / COD	Flags
1 Fluoride	58360	55955	58986	59106	55246	53271	104	56339	WLinr	4.4	0.998	
	-0.1	-1.6	4.3	4.8	-2.0	-5.5						
E 2 Chloride	33326	35272	34648	35222	33700	34329	342	34258	WLinr	3.1	1.000	
	-4.7	2.5	0.9	2.8	-1.6	0.2						
5 Sulfate	28160	27071	26759	27025	25921	25745	1841	25927	WLinr	3.6	1.000	
	-5.6	0.9	1.8	3.9	-0.2	-0.8						
3 Bromide	11600	11660	12776	14251	14693	14833	-141	13956	WLinr	8.1	0.994	
	3.3	-11.4	-6.4	2.6	5.5	6.4						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Instrument: IC-1 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Jun-2018 15:20:02
 No. Compounds: 5

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
4 Nitrate as N	9.343	9.330	9.313	9.283	9.177	9.087	9.256	1.103	9.177

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Instrument: IC-1 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Jun-2018 15:20:02
 No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b
 Inj Date : 16-Jun-2018 11:46:02, Sublist: chrom-IC1-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R^2/ COD	Flags
4 Nitrate as N	67100	78295	81482	86080	85686	85499	-864	85657	Linr	2.4	1.000	
	-1.5	-3.5	-2.9	1.0	0.2	-0.1						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Instrument: IC-1 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 16-Jun-2018 15:20:02
 No.Compounds:5

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:

Level: 5 \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	3.830	3.833	3.817	3.830	3.833	3.837	3.830	0.183	3.833
E 2 Chloride	5.137	5.117	5.097	5.123	5.077	5.053	5.101	0.614	5.077
5 Sulfate	6.637	6.577	6.597	6.610	6.470	6.407	6.549	1.382	6.470
3 Bromide	8.037	8.023	8.010	8.033	7.950	7.943	7.999	0.525	7.950

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m

Instrument: IC-1

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 16-Jun-2018 15:20:02

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b

Inj Date : 16-Jun-2018 11:46:02, Sublist: chrom-IC1-300*sub2

Limit Group: MB SM4110B ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	58380	55955	58986	59106	55246	53271	104	56339	WLinr	4.4	0.998	
	-0.1	-1.6	4.3	4.8	-2.0	-5.5						
E 2 Chloride	33326	35272	34648	35222	33700	34329	342	34258	WLinr	3.1	1.000	
	-4.7	2.5	0.9	2.8	-1.6	0.2						
5 Sulfate	28160	27071	26759	27025	25921	25745	1841	25927	WLinr	3.6	1.000	
	-5.6	0.9	1.8	3.9	-0.2	-0.8						
3 Bromide	11600	11660	12776	14251	14693	14833	-141	13956	WLinr	8.1	0.994	
	3.3	-11.4	-6.4	2.6	5.5	6.4						

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_158.d
 Lims ID: IC - STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Jun-2018 11:46:02 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 158 Name: IC - STD1
 Misc. Info.: Study: 480-0072391-005 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Jun-2018 14:56:42 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK019

First Level Reviewer: abramoc Date: 16-Jun-2018 14:47:03

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.830	3.833	-0.003	2918	0.0500	0.0499	M
E 2 Chloride						
5.137	5.077	0.060	16663	0.5000	0.4764	
5 Sulfate						
6.637	6.470	0.167	14080	0.5000	0.4720	
3 Bromide						M
8.037	7.950	0.087	580	0.0500	0.0517	M
4 Nitrate as N						M
9.343	9.177	0.166	3355	NC	NC	M

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 2.50 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_158.d

Injection Date: 16-Jun-2018 11:46:02

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: IC - STD1

Worklist Smp#: 5

Client ID:

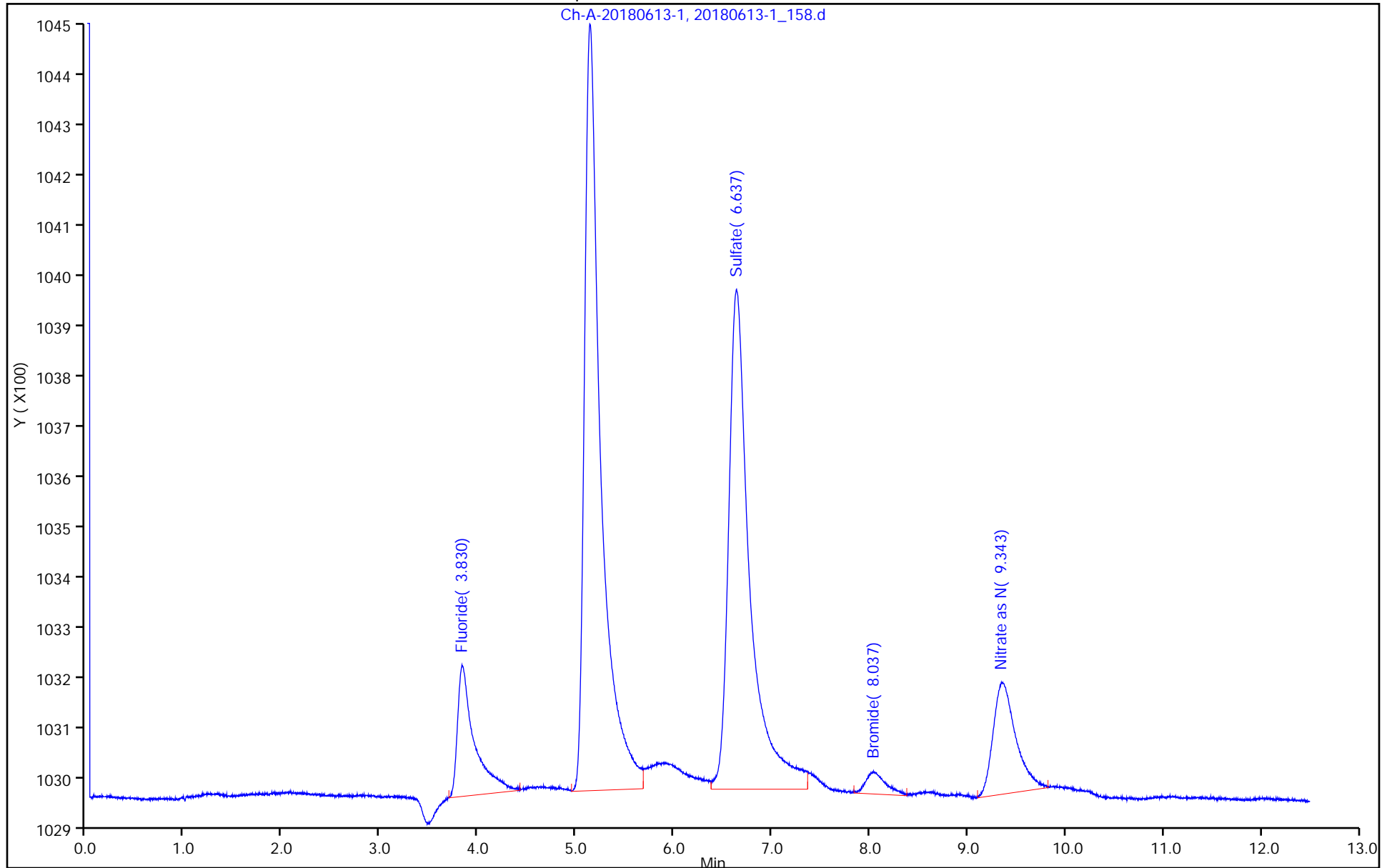
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

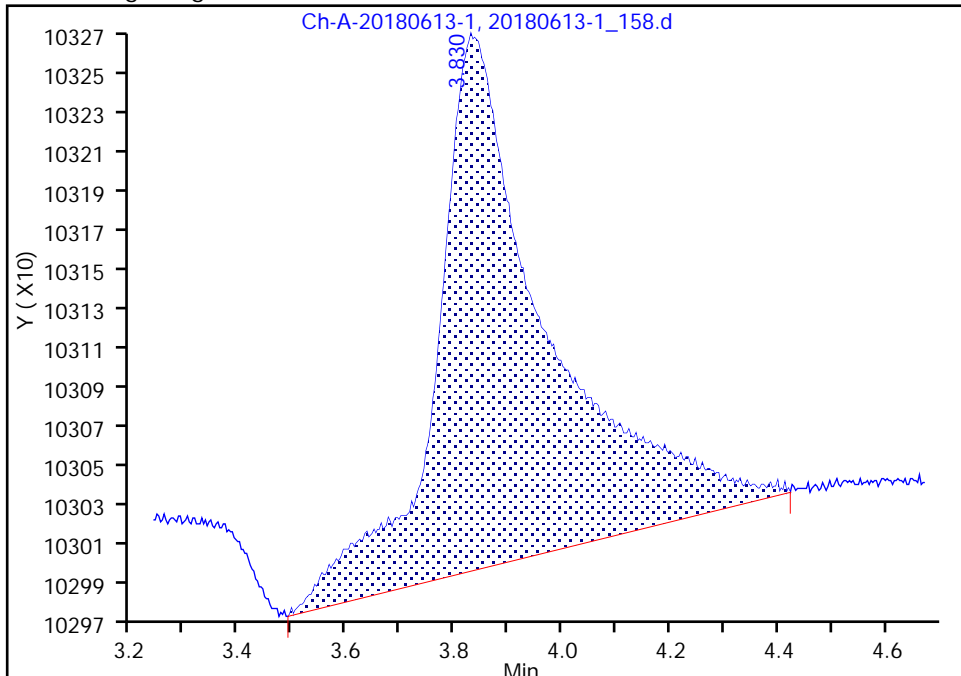
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_158.d
Injection Date: 16-Jun-2018 11:46:02 Instrument ID: IC-1
Lims ID: IC - STD1
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

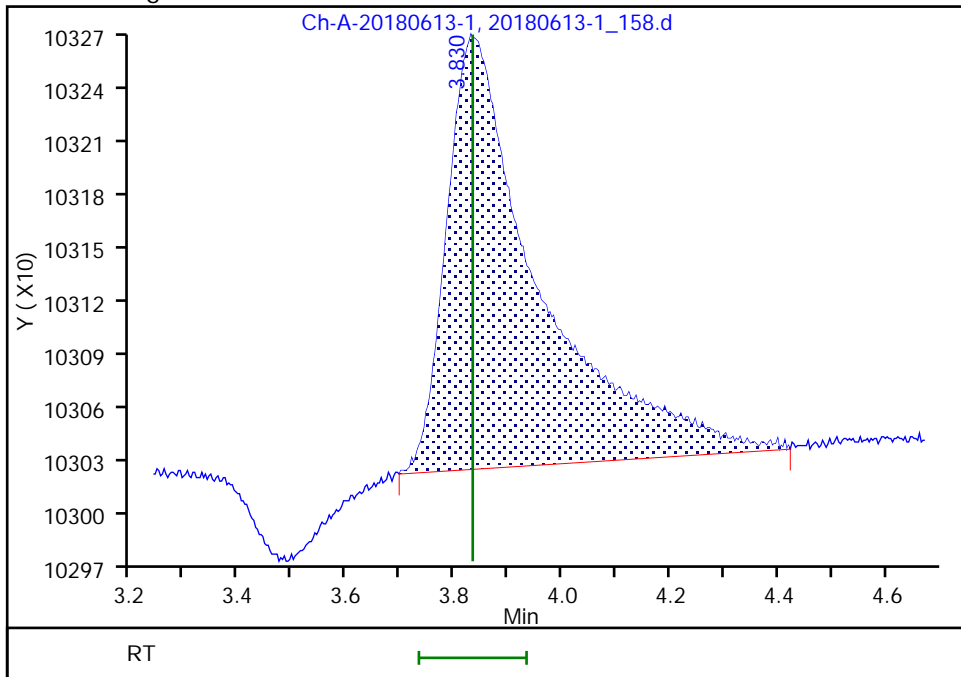
RT: 3.83
Area: 3952
Amount: 0.050424
Amount Units: ng/uL

Processing Integration Results



RT: 3.83
Area: 2918
Amount: 0.049947
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Jun-2018 14:45:37
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

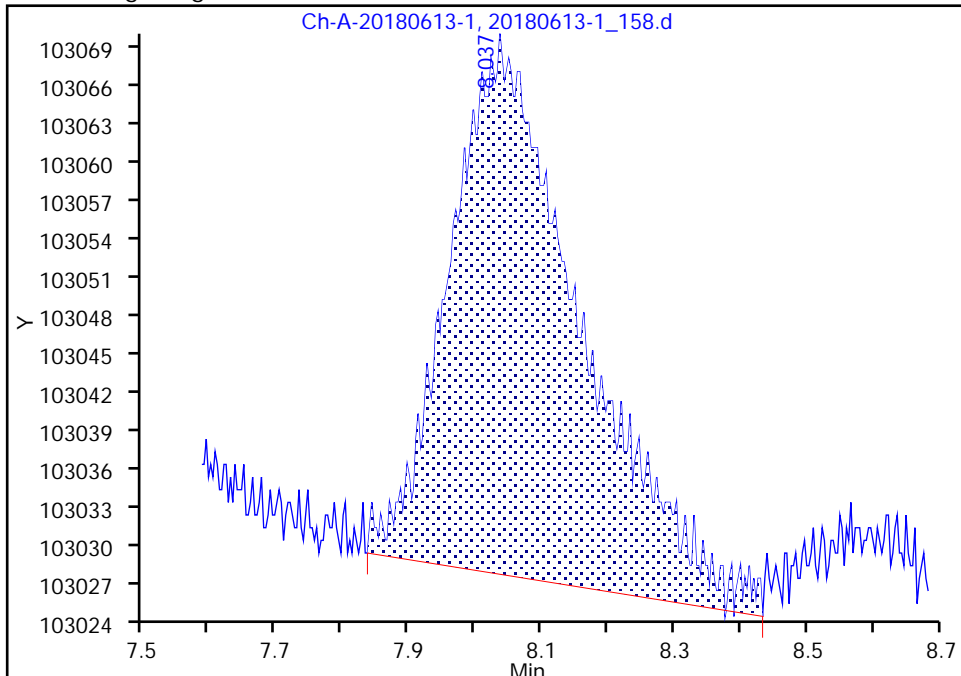
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_158.d
Injection Date: 16-Jun-2018 11:46:02 Instrument ID: IC-1
Lims ID: IC - STD1
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

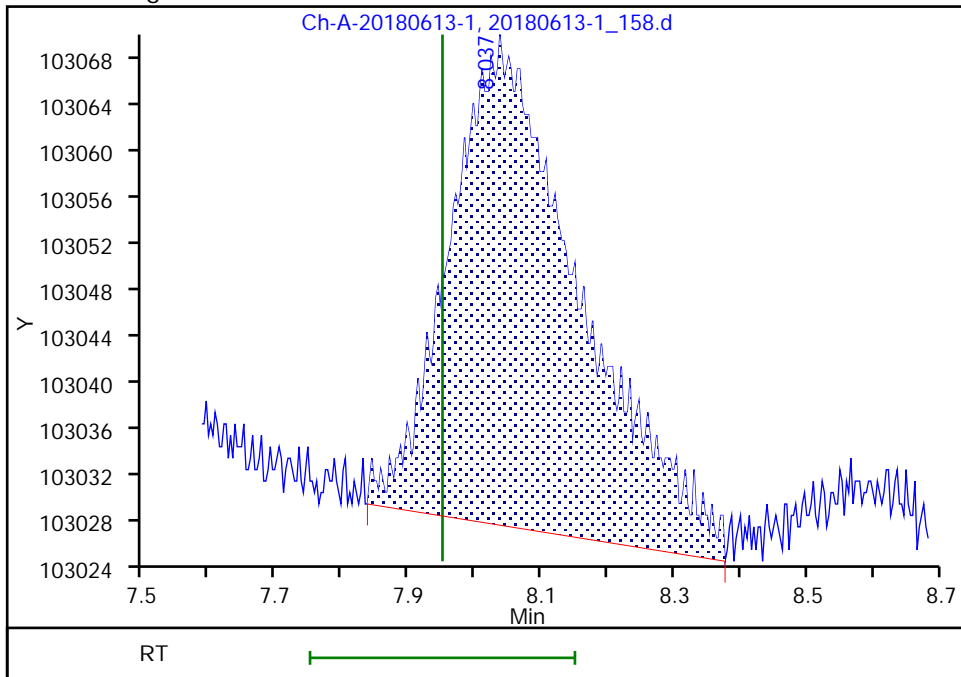
RT: 8.04
Area: 579
Amount: 0.043538
Amount Units: ng/uL

Processing Integration Results



RT: 8.04
Area: 580
Amount: 0.051670
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Jun-2018 14:46:18
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_159.d
 Lims ID: IC - STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Jun-2018 12:00:38 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 159 Name: IC - STD2
 Misc. Info.: Study: 480-0072391-006 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Jun-2018 14:56:44 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK019

First Level Reviewer: abramoc Date: 16-Jun-2018 14:47:50

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.833	3.833	0.000	11191	0.2000	0.1968	M
E 2 Chloride						
5.117	5.077	0.040	70543	2.00	2.05	
5 Sulfate						
6.577	6.470	0.107	54141	2.00	2.02	
3 Bromide						
8.023	7.950	0.073	2332	0.2000	0.1772	
4 Nitrate as N						
9.330	9.177	0.153	15659	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_159.d

Injection Date: 16-Jun-2018 12:00:38

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: IC - STD2

Worklist Smp#: 6

Client ID:

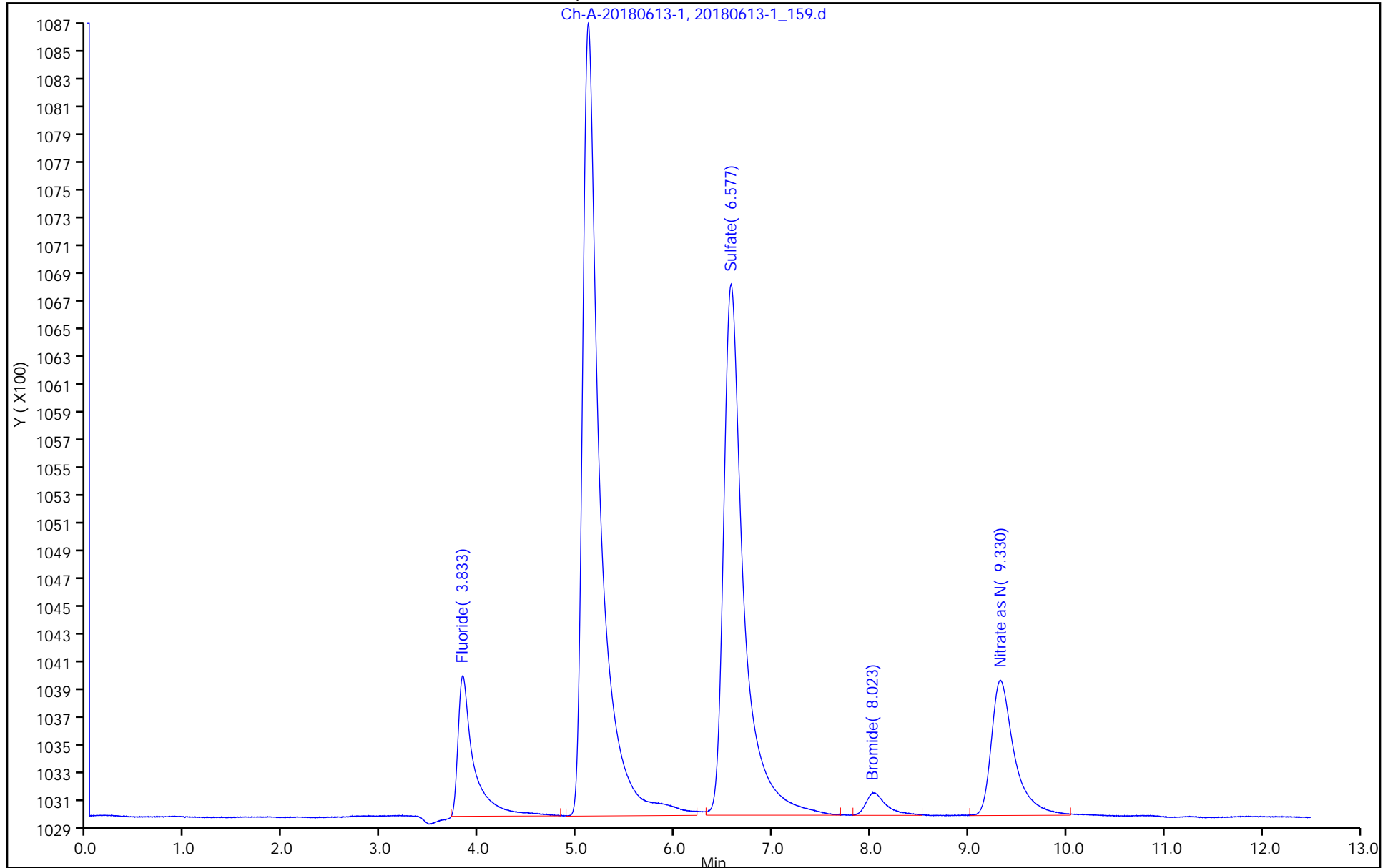
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

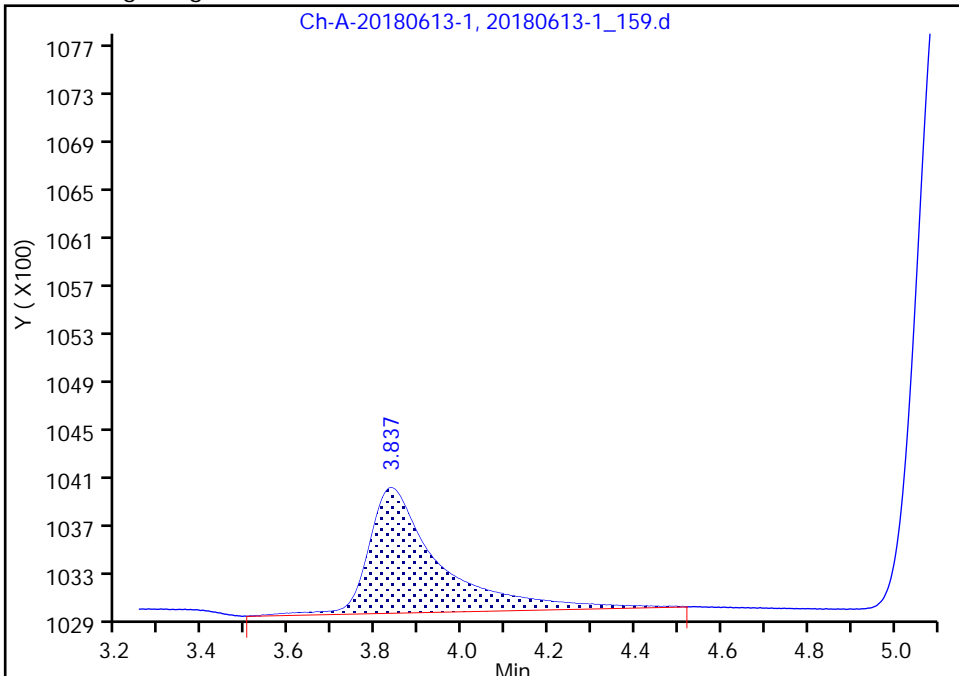
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_159.d
Injection Date: 16-Jun-2018 12:00:38 Instrument ID: IC-1
Lims ID: IC - STD2
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

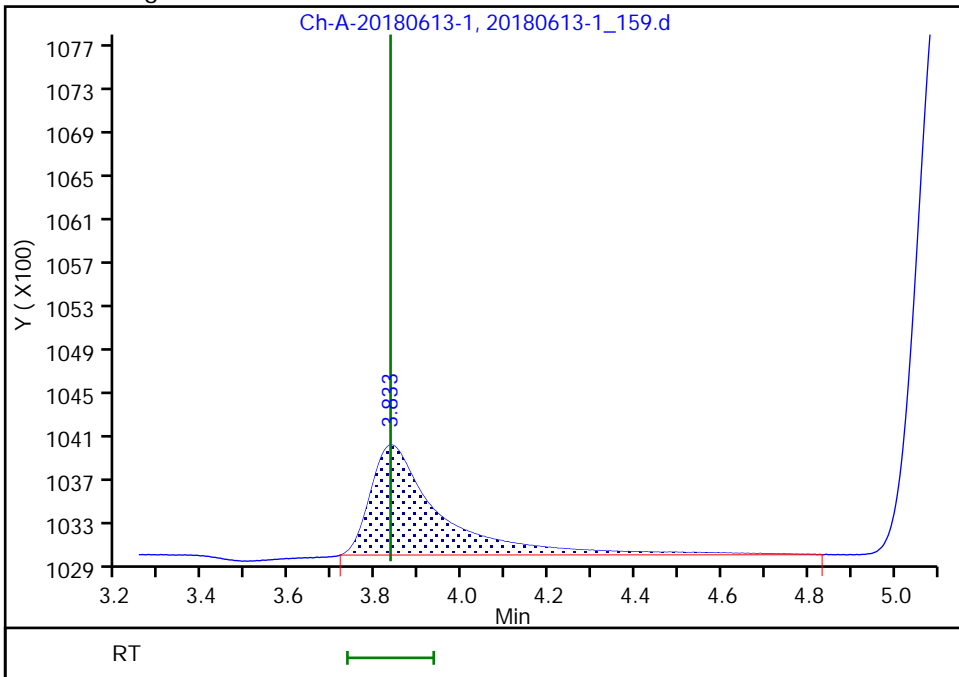
RT: 3.84
Area: 11698
Amount: 0.203192
Amount Units: ng/uL

Processing Integration Results



RT: 3.83
Area: 11191
Amount: 0.196792
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Jun-2018 14:47:35
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_160.d
 Lims ID: IC - STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Jun-2018 12:15:13 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 160 Name: IC - STD3
 Misc. Info.: Study: 480-0072391-007 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Jun-2018 14:56:45 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK019

First Level Reviewer: abramoc Date: 16-Jun-2018 14:48:23

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.817	3.833	-0.016	29493	0.5000	0.5216	M
E 2 Chloride						
5.097	5.077	0.020	173241	5.00	5.05	
5 Sulfate						
6.597	6.470	0.127	133794	5.00	5.09	
3 Bromide						
8.010	7.950	0.060	6388	0.5000	0.4678	
4 Nitrate as N						
9.313	9.177	0.136	40741	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 25.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_160.d

Injection Date: 16-Jun-2018 12:15:13

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: IC - STD3

Worklist Smp#: 7

Client ID:

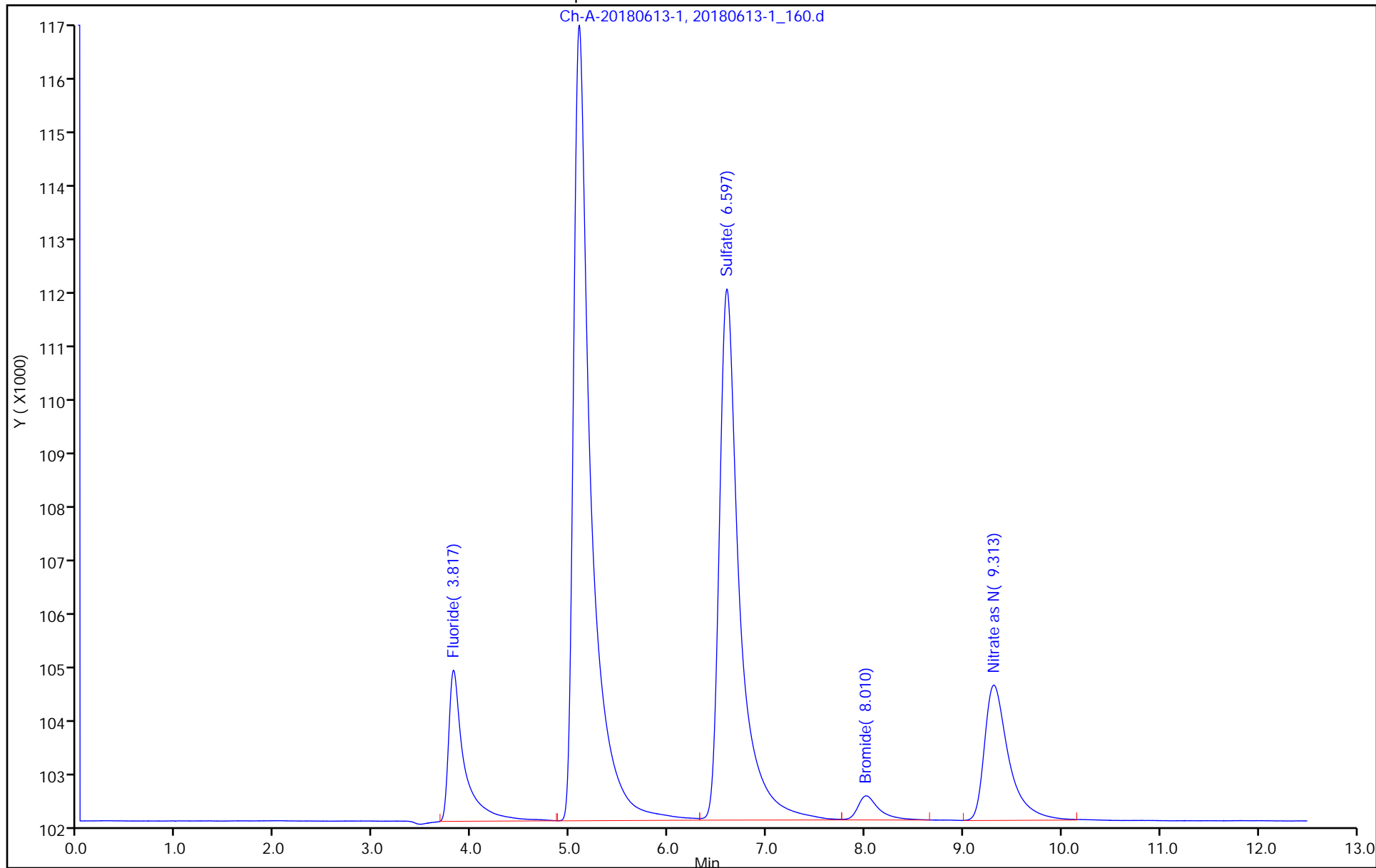
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

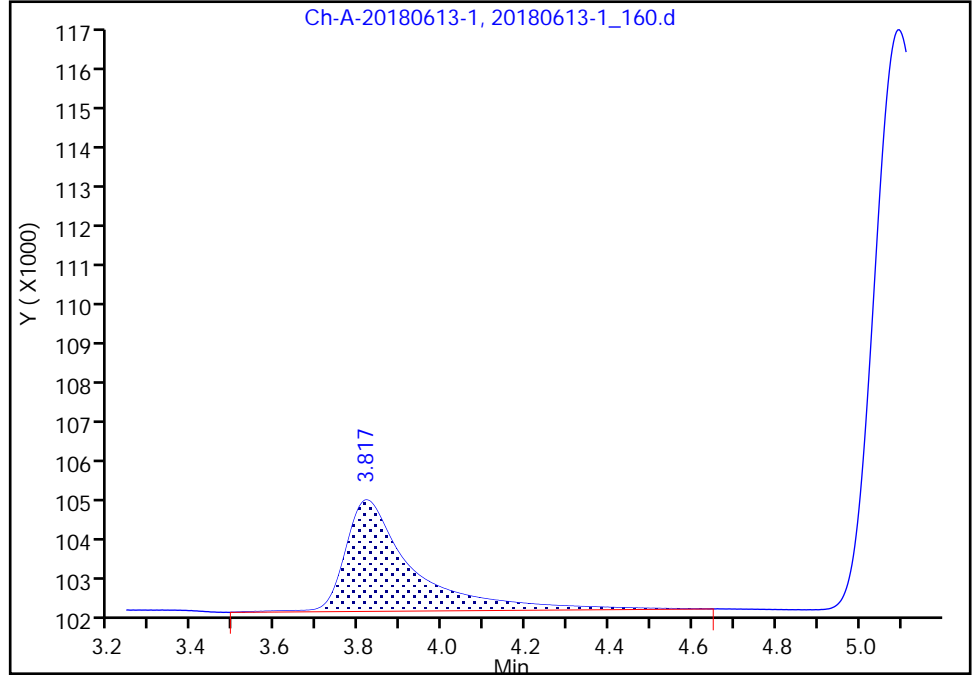
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_160.d
Injection Date: 16-Jun-2018 12:15:13 Instrument ID: IC-1
Lims ID: IC - STD3
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

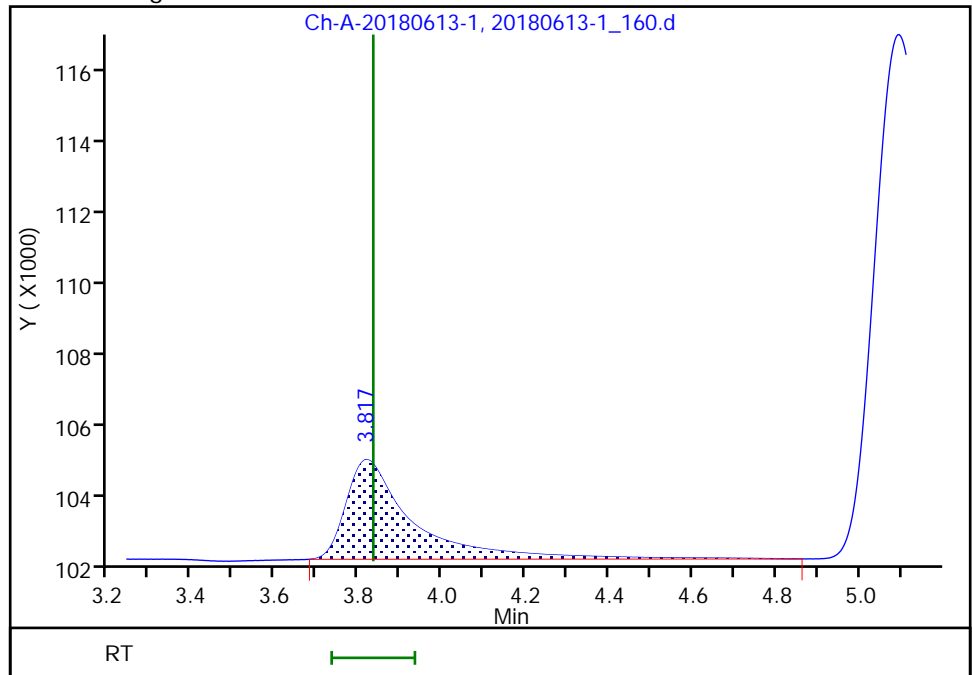
RT: 3.82
Area: 29974
Amount: 0.524491
Amount Units: ng/uL

Processing Integration Results



RT: 3.82
Area: 29493
Amount: 0.521649
Amount Units: ng/uL

Manual Integration Results



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_161.d
 Lims ID: IC - STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Jun-2018 12:29:48 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 161 Name: IC - STD4
 Misc. Info.: Study: 480-0072391-008 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Jun-2018 14:56:46 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK019

First Level Reviewer: abramoc Date: 16-Jun-2018 14:48:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.830	3.833	-0.003	118211	2.00	2.10	M
E 2 Chloride						
5.123	5.077	0.046	704436	20.0	20.6	
5 Sulfate						
6.610	6.470	0.140	540495	20.0	20.8	
3 Bromide						
8.033	7.950	0.083	28502	2.00	2.05	
4 Nitrate as N						
9.283	9.177	0.106	172160	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_161.d

Injection Date: 16-Jun-2018 12:29:48

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: IC - STD4

Worklist Smp#: 8

Client ID:

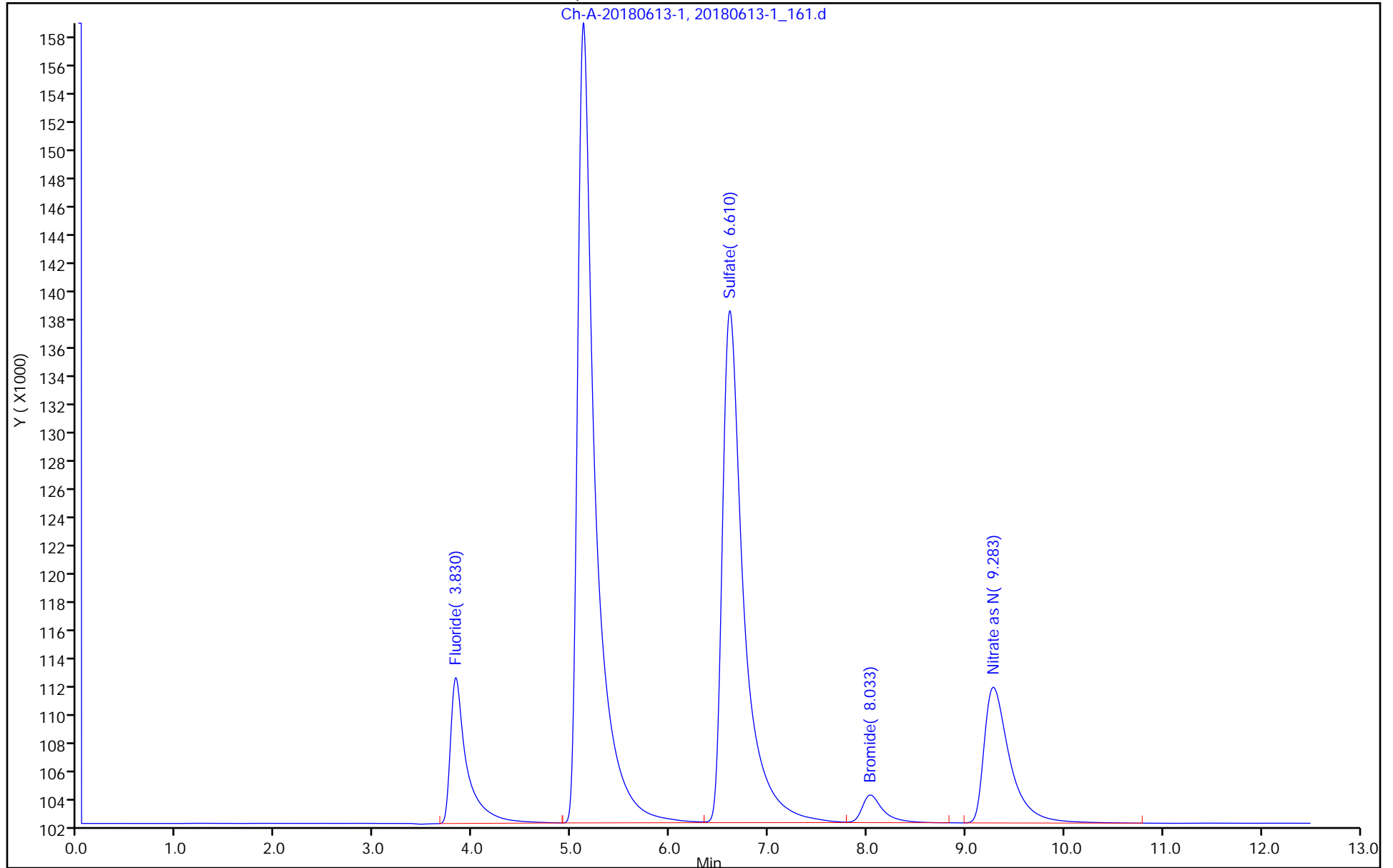
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

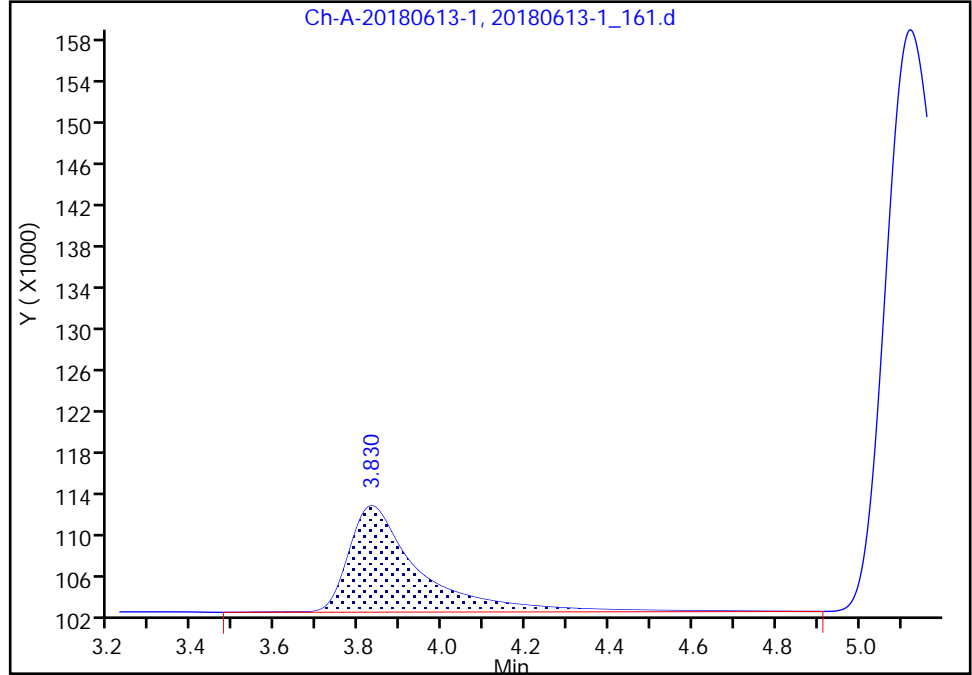
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_161.d
Injection Date: 16-Jun-2018 12:29:48 Instrument ID: IC-1
Lims ID: IC - STD4
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

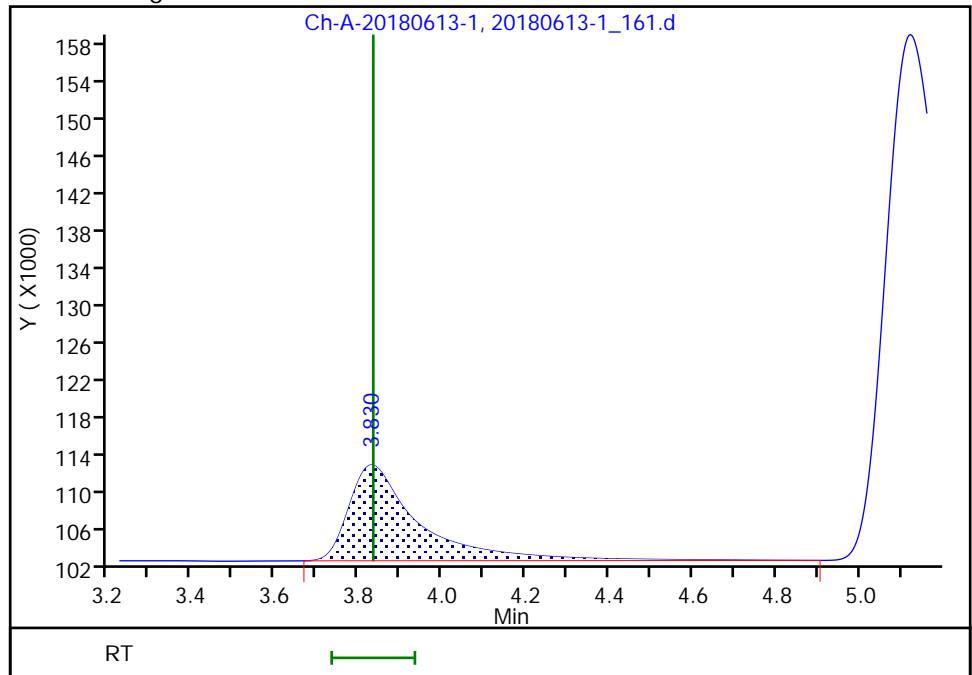
RT: 3.83
Area: 119630
Amount: 2.099198
Amount Units: ng/uL

Processing Integration Results



RT: 3.83
Area: 118211
Amount: 2.096378
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Jun-2018 14:48:50
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d
 Lims ID: IC - STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Jun-2018 12:44:23 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 162 Name: IC - STD5
 Misc. Info.: Study: 480-0072391-009 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Jun-2018 14:56:47 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK019

First Level Reviewer: abramoc Date: 16-Jun-2018 14:49:28

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.833	3.833	0.000	276230	5.00	4.90	M
E 2 Chloride						
5.077	5.077	0.000	1685000	50.0	49.2	
5 Sulfate						
6.470	6.470	0.000	1296032	50.0	49.9	
3 Bromide						
7.950	7.950	0.000	73464	5.00	5.27	
4 Nitrate as N						
9.177	9.177	0.000	428328	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d

Injection Date: 16-Jun-2018 12:44:23

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: IC - STD5

Worklist Smp#: 9

Client ID:

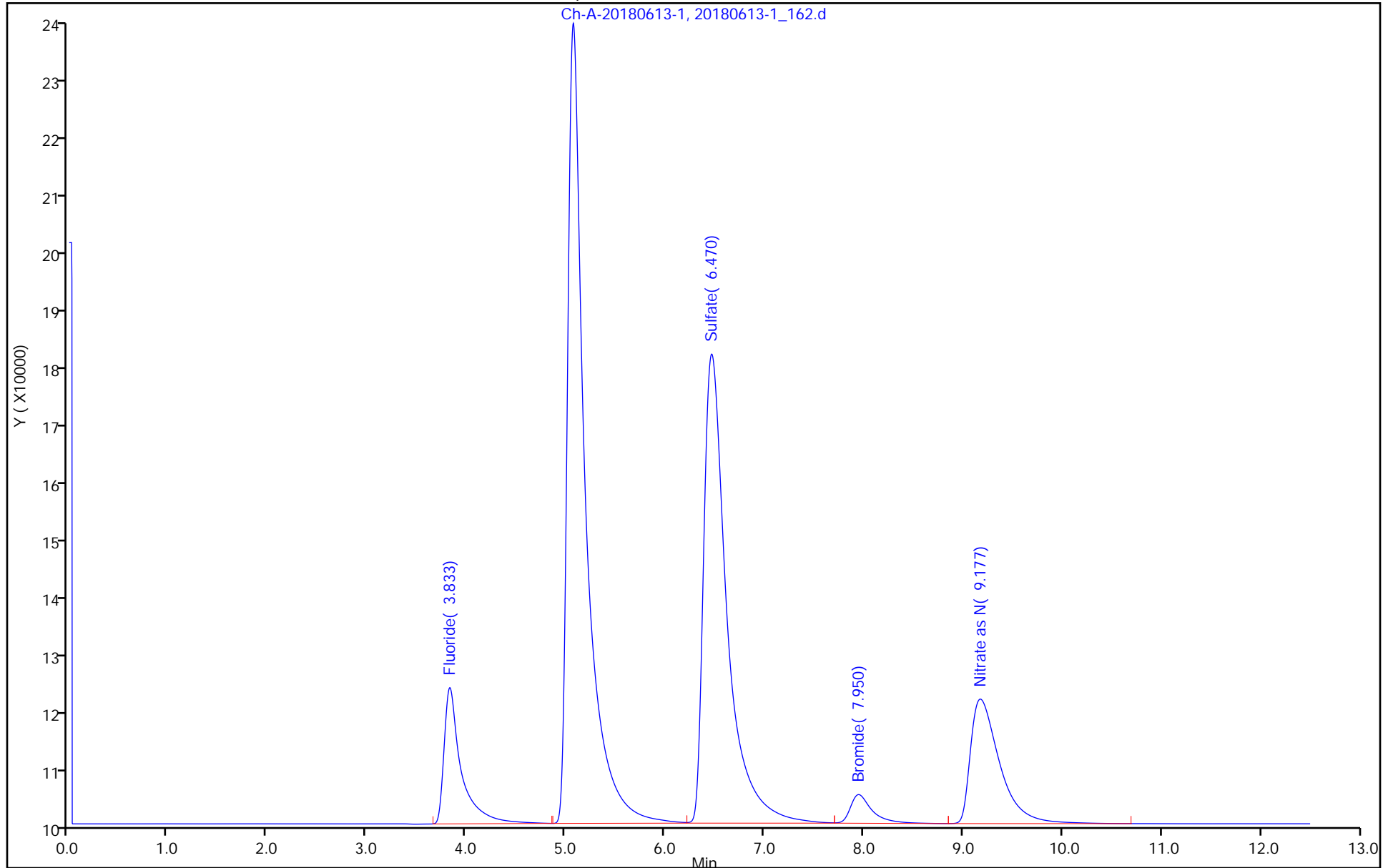
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

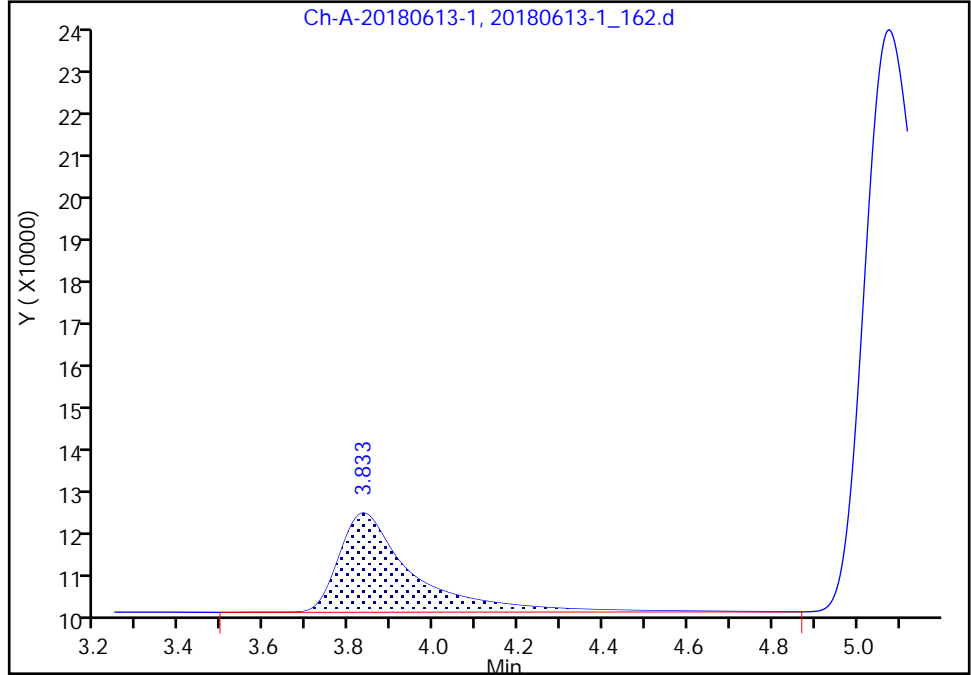
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_162.d
Injection Date: 16-Jun-2018 12:44:23 Instrument ID: IC-1
Lims ID: IC - STD5
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

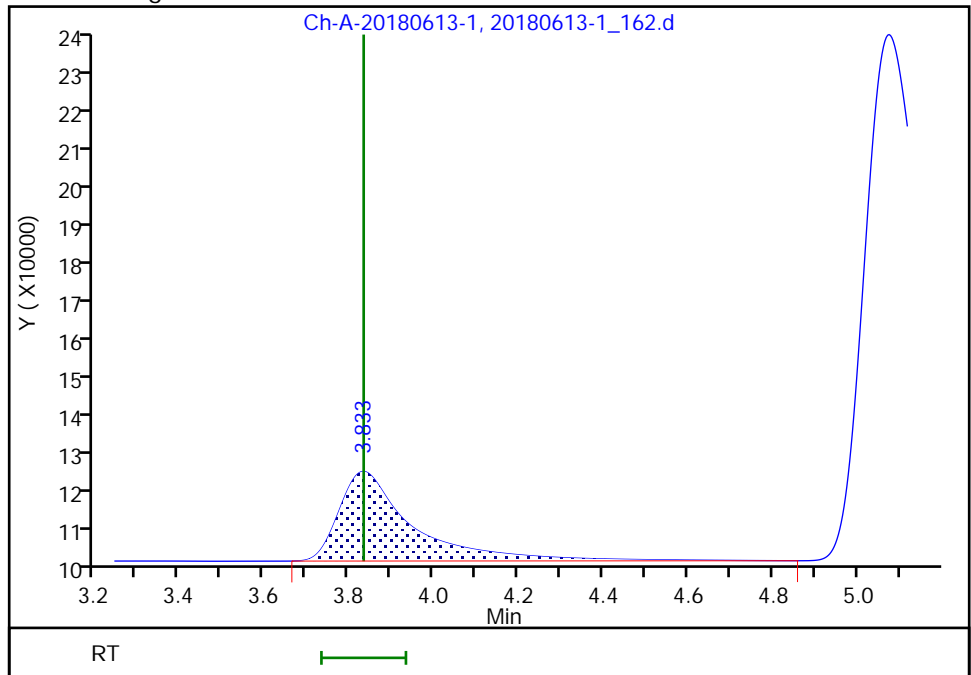
RT: 3.83
Area: 277302
Amount: 4.876053
Amount Units: ng/uL

Processing Integration Results



RT: 3.83
Area: 276230
Amount: 4.901187
Amount Units: ng/uL

Manual Integration Results



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Lims ID: IC - STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Jun-2018 12:58:58 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 163 Name: IC - STD6
 Misc. Info.: Study: 480-0072391-010 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 16-Jun-2018 14:56:48 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK019

First Level Reviewer: abramoc Date: 16-Jun-2018 14:49:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.837	3.833	0.004	532713	10.0	9.45	M
E 2 Chloride						
5.053	5.077	-0.024	3432925	100.0	100.2	
5 Sulfate						
6.407	6.470	-0.063	2574509	100.0	99.2	
3 Bromide						
7.943	7.950	-0.007	148333	10.0	10.6	
4 Nitrate as N						
9.087	9.177	-0.090	854986	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 500.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Injection Date: 16-Jun-2018 12:58:58

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: IC - STD6

Worklist Smp#: 10

Client ID:

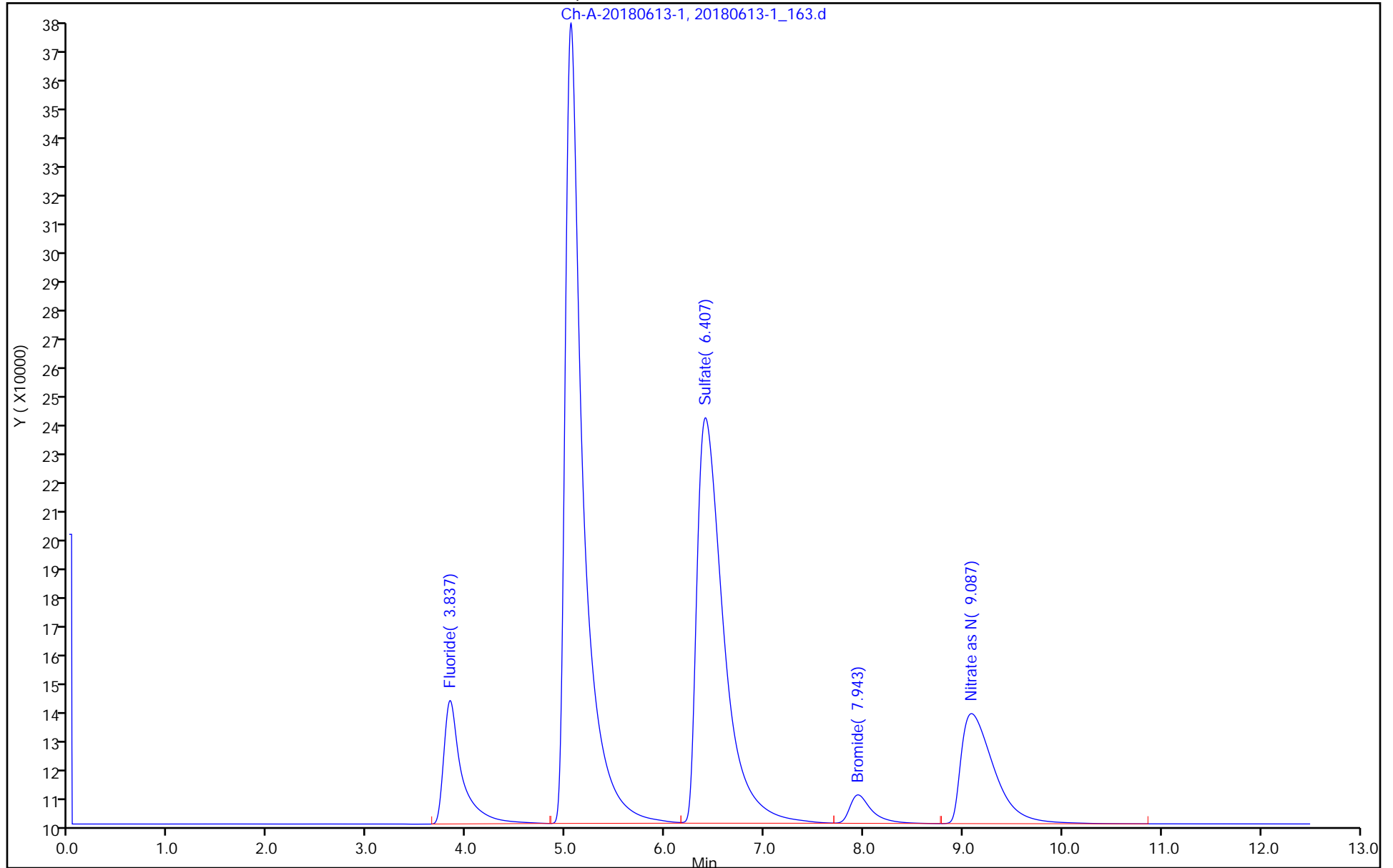
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

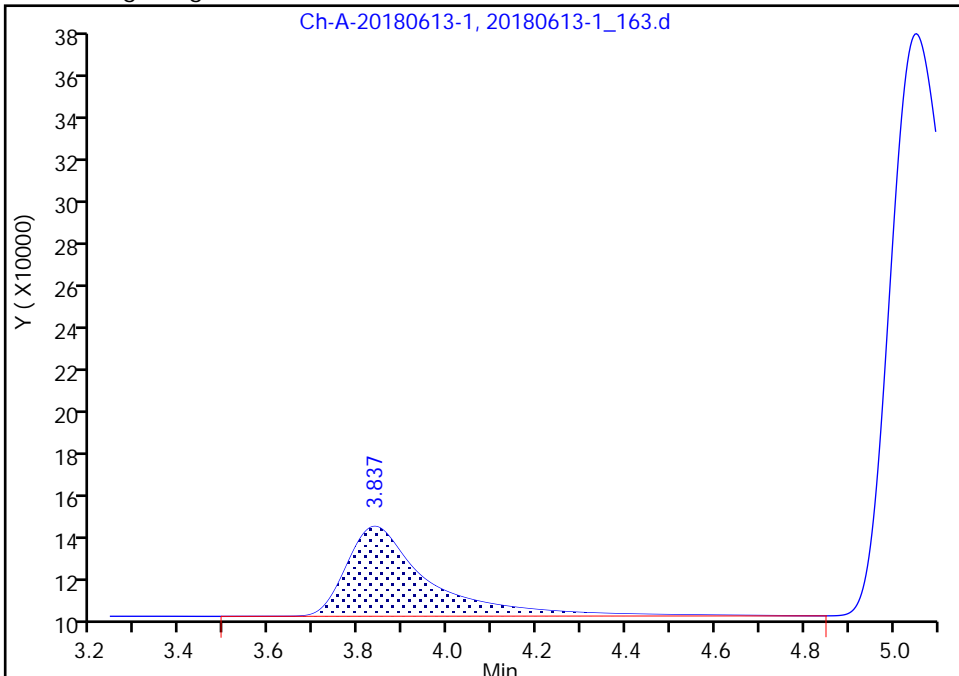
Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
Injection Date: 16-Jun-2018 12:58:58 Instrument ID: IC-1
Lims ID: IC - STD6
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

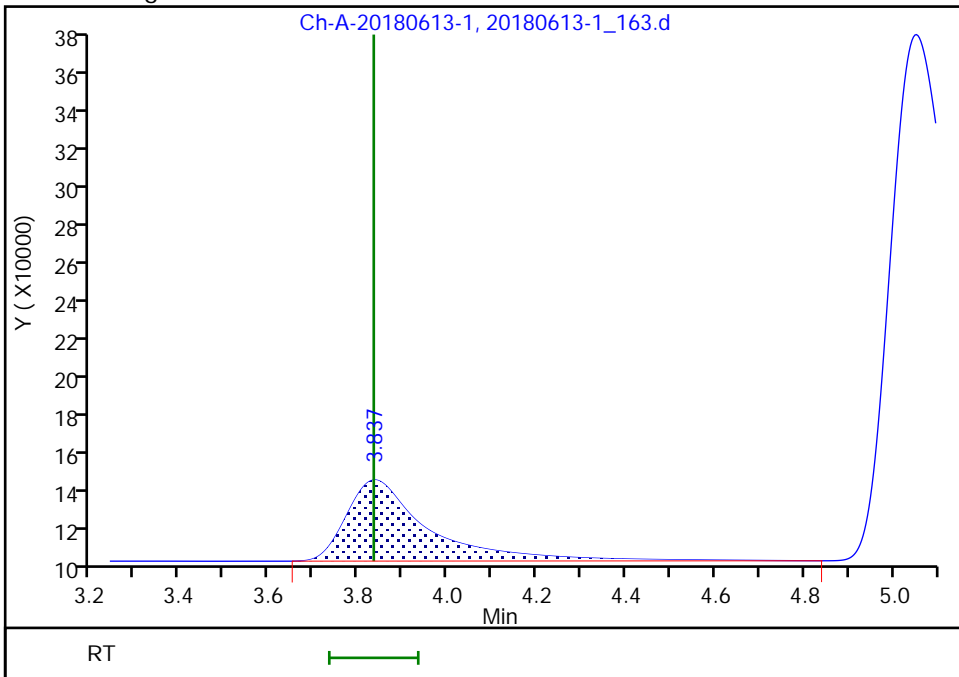
RT: 3.84
Area: 533542
Amount: 9.387651
Amount Units: ng/uL

Processing Integration Results



RT: 3.84
Area: 532713
Amount: 9.453714
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 16-Jun-2018 14:49:45
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420472	Worklist: 72458	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	Y			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420473	Worklist: 72458	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	NA			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420474	Worklist: 77458	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. PK Area:Height Difference (314.0 PD _{A/N}): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chruns, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $> RL$ in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $< RL$

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) <i>If no, list QC ID & explain:</i>		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is Initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	Y			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____






Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 6-19-18
Instrument Name: IC-1
Injection Volume: 1.000
Analysis Type: Semi VOA
Batch Directory: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b
Upload Directory: \\CorpTALSAPP17480-BF-RawData\Organics\MS\IC-1

Worklist Number: 72458
Chrom Method: IC1-300
Units: ul

Cond 1413 @ 25°C ✓
Recd 1314 @ 22°C

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072458-001	# 1 CCV 	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-002	# 2 CCB 		CCB	sv	5.000	mL	1.000
480-0072458-003	# 3 LCS 	IC_ANION_LCS_00207	LCS	sv	5.000	mL	1.000
480-0072458-004	# 4 MB 		MB	sv	5.000	mL	1.000
480-0072458-005	# 5 480-137115-A-3 		Client	sv	5.000	mL	1.000
480-0072458-006	# 6 480-137115-A-4 		Client	sv	5.000	mL	1.000
480-0072458-007	# 7 480-137115-A-5 		Client	sv	5.000	mL	1.000
480-0072458-008	# 8 480-137117-A-1 	2.5 mL → 5 mL	Client	sv	5.000	mL	2.000
480-0072458-009	# 9 480-137133-C-1 	1 mL → 5 mL	Client	sv	5.000	mL	5.000
480-0072458-010	# 10 480-137213-F-1 	100 mL → 5 mL	Client	sv	5.000	mL	50.00
480-0072458-011	# 11 480-137213-F-1 MS 	IC_ANION_STD_00036	MS	sv	5.000	mL	50.00
480-0072458-012	# 12 480-137213-F-1 MSD 	IC_ANION_STD_00036	MSD	sv	5.000	mL	50.00
480-0072458-013	# 13 CCV 	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-014	# 14 CCB 		CCB	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072458-015	#15 480-137216-T-3	1 mL → 5 mL	Client	sv	5,000	mL	5,000
480-0072458-016	#16 480-137220-C-1		Client	sv	5,000	mL	1,000
480-0072458-017	#17 480-137220-C-7	250 mL → 5 mL	Client	sv	5,000	mL	20.00
480-0072458-018	#18 480-137220-C-8	1 mL → 5 mL	Client	sv	5,000	mL	5,000
480-0072458-019	#19 480-137262-Q-1	500 mL → 5 mL	Client	sv	5,000	mL	10.00
480-0072458-020	#20 480-137268-A-5	264 nS	Client	sv	5,000	mL	0.0
480-0072458-021	#21 480-137355-I-3	500 mL → 5 mL	Client	sv	5,000	mL	10.00
480-0072458-022	#22 480-137355-I-7	↓	Client	sv	5,000	mL	10.00
480-0072458-023	#23 480-137355-I-8	2.5 mL → 5 mL	Client	sv	5,000	mL	2,000
480-0072458-024	#24 480-137355-I-8 MS	IC_ANION_STD_00036	MS	sv	5,000	mL	2,000
480-0072458-025	#25 CCV	IC_ANION_LCS_00207	CCV	sv	5,000	mL	1,000
480-0072458-026	#26 CCB		CCB	sv	5,000	mL	1,000
480-0072458-027	#27 LCS	IC_ANION_LCS_00207	LCS	sv	5,000	mL	1,000
480-0072458-028	#28 MB		MB	sv	5,000	mL	1,000
480-0072458-029	#29 480-137355-I-9	500 mL → 5 mL	Client	sv	5,000	mL	10.00
480-0072458-030	#30 480-137355-I-10	↓	Client	sv	5,000	mL	10.00
480-0072458-031	#31 480-137355-I-11		Client	sv	5,000	mL	10.00
480-0072458-032	#32 480-137395-G-5	1 mL → 5 mL	Client	sv	5,000	mL	5,000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072458-033	#33 480-137395-G-6		Client	sv	5,000	mL	5,000
480-0072458-034	#34 480-137434-E-1	3.6 mS	Client	sv	5,000	mL	0.0
480-0072458-035	#35 480-137434-E-1 MS	IC_ANION_STD_00036	MS	sv	5,000	mL	0.0
480-0072458-036	#36 480-137434-E-1 MSD	IC_ANION_STD_00036	MSD	sv	5,000	mL	0.0
480-0072458-037	#37 CCV	IC_ANION_LCS_00207	CCV	sv	5,000	mL	1,000
480-0072458-038	#38 CCB		CCB	sv	5,000	mL	1,000
480-0072458-039	#39 480-137434-E-2	3.73 mS	Client	sv	5,000	mL	0.0
480-0072458-040	#40 480-137446-A-1	621 mS	Client	sv	5,000	mL	0.0
480-0072458-041	#41 480-137446-A-2	624 mS	Client	sv	5,000	mL	0.0
480-0072458-042	#42 480-137446-A-3	602 mS	Client	sv	5,000	mL	0.0
480-0072458-043	#43 480-137446-A-4	600 mS	Client	sv	5,000	mL	0.0
480-0072458-044	#44 480-137446-A-5	592 mS	Client	sv	5,000	mL	0.0
480-0072458-045	#45 480-137446-A-6	598 mS	Client	sv	5,000	mL	0.0
480-0072458-046	#46 480-137446-A-7	587 mS	Client	sv	5,000	mL	0.0
480-0072458-047	#47 480-137446-A-8	602 mS	Client	sv	5,000	mL	0.0
480-0072458-048	#48 480-137446-A-8 MS	IC_ANION_STD_00036	MS	sv	5,000	mL	0.0
480-0072458-049	#49 CCV	IC_ANION_LCS_00207	CCV	sv	5,000	mL	1,000
480-0072458-050	#50 CCB		CCB	sv	5,000	mL	1,000

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420474	Worklist: 72458	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y		/	
2. Elution order of analytes in ICAL confirmed to be correct		Y		/	
3. Linearity and Intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y		/	
4. ICV, second source: run before samples 90-110% recovery		Y		/	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y		/	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y		/	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X			/	If no, list details:
8. Pk Area:Height Difference (314.0 PD _{AM}): Before samples <25%	X			/	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		Y		/	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y		/	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y		/	<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y		/	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Out of control QC is clearly identified	Y		/	
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y		/	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		/	
16. Run Log				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Analyst initials/signature provided	Y		/	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y		/	
b. Method and matrix are correct	Y		/	
c. Date and time match raw data	Y		/	
d. Dilutions are correct	Y		/	
e. Correct suffix designated (where applicable)	Y		/	
18. TALS Worksheet Tab is complete and correct	Y		/	
19. TALS Reagent Tab is complete and correct	Y		/	
20. TALS QC Links Tab is correct	Y		/	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y		/	
b. All reported analytes are marked Primary or Secondary	Y		/	
22. TALS Batch Information Screen documentation is complete	Y		/	
23. TALS Status set to appropriate review level	Y		/	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			/	
25. Results for samples and QC correct on final report?			/	
26. Are all necessary scanned documents in TALS?			/	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			/	

2nd Reviewer: Janejira

Review Date: 06/11/18

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 6-19-18
 Instrument Name: IC-1
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\Buffalo\ChromData\IC-120180619-72458.b
 Upload Directory: \\CorpTALSAPP17480-BF-RawData\Organics\MS\IC-1

Worklist Number: 72458
 Chrom Method: IC1-300
 Units: ul

Cond 1413 @ 25°C ✓
 Reel 1314 @ 22°C

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072458-001	# 1 CCV	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-002	# 2 CCB		CCB	sv	5.000	mL	1.000
480-0072458-003	# 3 LCS	IC_ANION_LCS_00207	LCS	sv	5.000	mL	1.000
480-0072458-004	# 4 MB		MB	sv	5.000	mL	1.000
480-0072458-005	# 5 480-137115-A-3		Client	sv	5.000	mL	1.000
480-0072458-006	# 6 480-137115-A-4		Client	sv	5.000	mL	1.000
480-0072458-007	# 7 480-137115-A-5		Client	sv	5.000	mL	1.000
480-0072458-008	# 8 480-137117-A-1		Client	sv	5.000	mL	2.000
480-0072458-009	# 9 480-137133-C-1	2.5 mL → 5 mL	Client	sv	5.000	mL	5.000
480-0072458-010	# 10 480-137213-F-1	1 mL → 5 mL	Client	sv	5.000	mL	50.00
480-0072458-011	# 11 480-137213-F-1 MS	100 mL → 5 mL	MS	sv	5.000	mL	50.00
480-0072458-012	# 12 480-137213-F-1 MSD	IC_ANION_STD_00036	MSD	sv	5.000	mL	50.00
480-0072458-013	# 13 CCV	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-014	# 14 CCB		CCB	sv	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Voi/Wt	Voi/Wt Units	Dil Fact
480-0072458-015	#15 480-137216-T-3	1 mL → 5 mL	Client	sv	5.000	mL	5.000
480-0072458-016	#16 480-137220-C-1		Client	sv	5.000	mL	1.000
480-0072458-017	#17 480-137220-C-7	250 mL → 5 mL	Client	sv	5.000	mL	20.00
480-0072458-018	#18 480-137220-C-8	1 mL → 5 mL	Client	sv	5.000	mL	5.000
480-0072458-019	#19 480-137262-Q-1	500 mL → 5 mL	Client	sv	5.000	mL	10.00
480-0072458-020	#20 480-137268-A-5	264 NS lt	Client	sv	5.000	mL	0.0
480-0072458-021	#21 480-137355-I-3	500 mL → 5 mL	Client	sv	5.000	mL	10.00
480-0072458-022	#22 480-137355-I-7	↓	Client	sv	5.000	mL	10.00
480-0072458-023	#23 480-137355-I-8	2.5 mL → 5 mL	Client	sv	5.000	mL	2.000
480-0072458-024	#24 480-137355-I-8 MS	IC_ANION_STD_00036	MS	sv	5.000	mL	2.000
480-0072458-025	#25 CCV	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-026	#26 CCB		CCB	sv	5.000	mL	1.000
480-0072458-027	#27 LCS	IC_ANION_LCS_00207	LCS	sv	5.000	mL	1.000
480-0072458-028	#28 MB		MB	sv	5.000	mL	1.000
480-0072458-029	#29 480-137355-I-9		Client	sv	5.000	mL	10.00
480-0072458-030	#30 480-137355-I-10	500 mL → 5 mL	Client	sv	5.000	mL	10.00
480-0072458-031	#31 480-137355-I-11	↓	Client	sv	5.000	mL	10.00
480-0072458-032	#32 480-137395-G-5	1 mL → 5 mL	Client	sv	5.000	mL	5.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vo/Wt	Vo/Wt Units	Dil Fact
480-0072458-033	#33 480-137395-G-6		Client	sv	5.000	mL	5.000
480-0072458-034	#34 480-137434-E-1	3.6 mS	Client	sv	5.000	mL	0.0
480-0072458-035	#35 480-137434-E-1 MS	IC_ANION_STD_00036	MS	sv	5.000	mL	0.0
480-0072458-036	#36 480-137434-E-1 MSD	IC_ANION_STD_00036	MSD	sv	5.000	mL	0.0
480-0072458-037	#37 CCV	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-038	#38 CCB		CCB	sv	5.000	mL	1.000
480-0072458-039	#39 480-137434-E-2	3.73 mS	Client	sv	5.000	mL	0.0
480-0072458-040	#40 480-137446-A-1	621 mS	Client	sv	5.000	mL	0.0
480-0072458-041	#41 480-137446-A-2	624 mS	Client	sv	5.000	mL	0.0
480-0072458-042	#42 480-137446-A-3	602 mS	Client	sv	5.000	mL	0.0
480-0072458-043	#43 480-137446-A-4	600 mS	Client	sv	5.000	mL	0.0
480-0072458-044	#44 480-137446-A-5	592 mS	Client	sv	5.000	mL	0.0
480-0072458-045	#45 480-137446-A-6	598 mS	Client	sv	5.000	mL	0.0
480-0072458-046	#46 480-137446-A-7	587 mS	Client	sv	5.000	mL	0.0
480-0072458-047	#47 480-137446-A-8	602 mS	Client	sv	5.000	mL	0.0
480-0072458-048	#48 480-137446-A-8 MS	IC_ANION_STD_00036	MS	sv	5.000	mL	0.0
480-0072458-049	#49 CCV	IC_ANION_LCS_00207	CCV	sv	5.000	mL	1.000
480-0072458-050	#50 CCB		CCB	sv	5.000	mL	1.000

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_210.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jun-2018 01:09:57 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 210 Name: CCV
 Misc. Info.: Study: 480-0072458-025 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:10 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:09:21

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.840	3.840	0.000	256988	5.00	4.56	M
E 2 Chloride						
5.090	5.090	0.000	1591724	50.0	46.5	
5 Sulfate						
6.477	6.477	0.000	1187399	50.0	45.7	
3 Bromide						
7.937	7.937	0.000	66383	5.00	4.77	
4 Nitrate as N						
9.137	9.137	0.000	395408	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_210.d

Injection Date: 20-Jun-2018 01:09:57

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 25

Client ID:

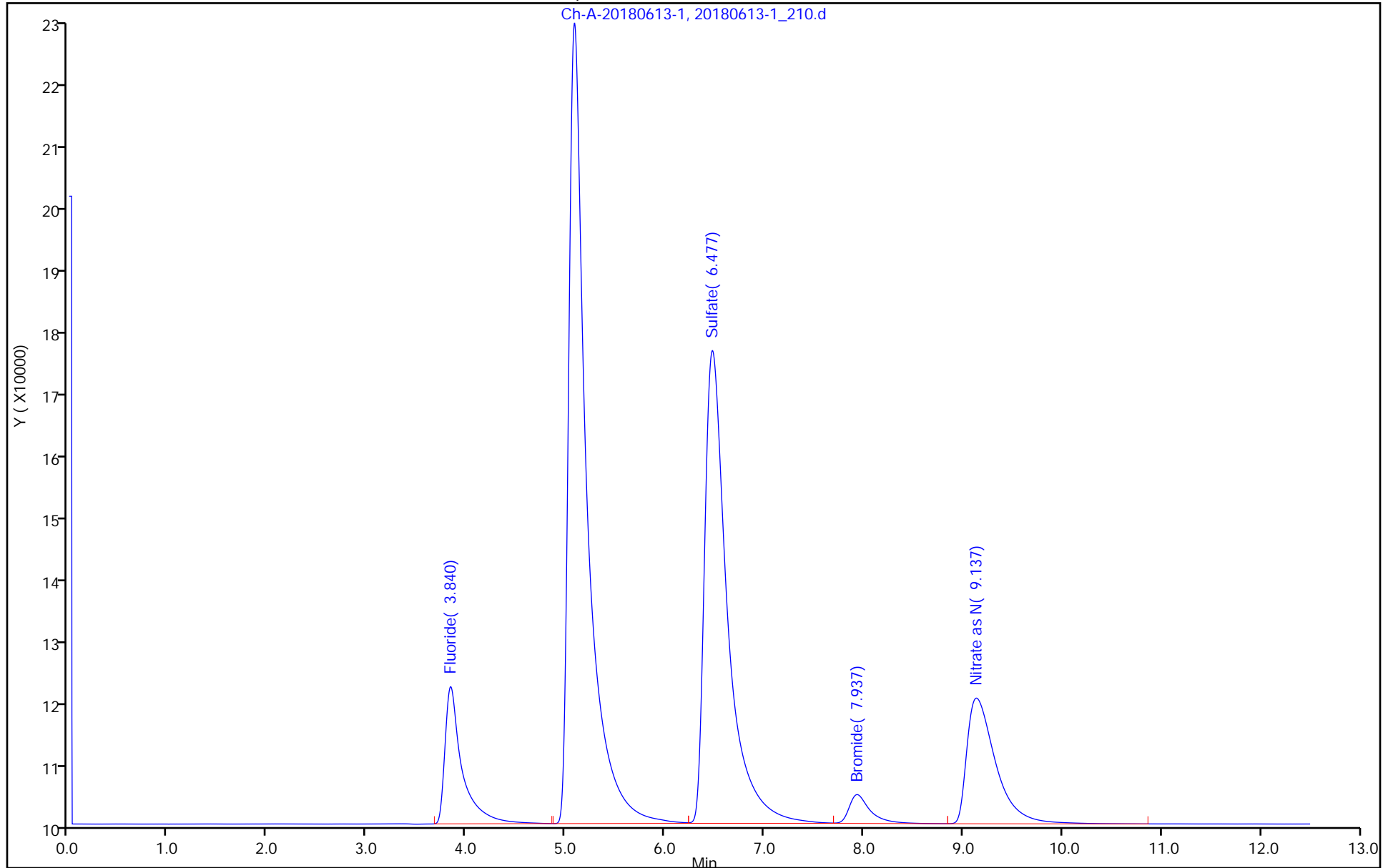
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_211.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 20-Jun-2018 01:24:32 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 211 Name: CCB
 Misc. Info.: Study: 480-0072458-026 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:10 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002
 First Level Reviewer: richardsd Date: 20-Jun-2018 11:09:24

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_211.d

Injection Date: 20-Jun-2018 01:24:32

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: CCB

Worklist Smp#: 26

Client ID:

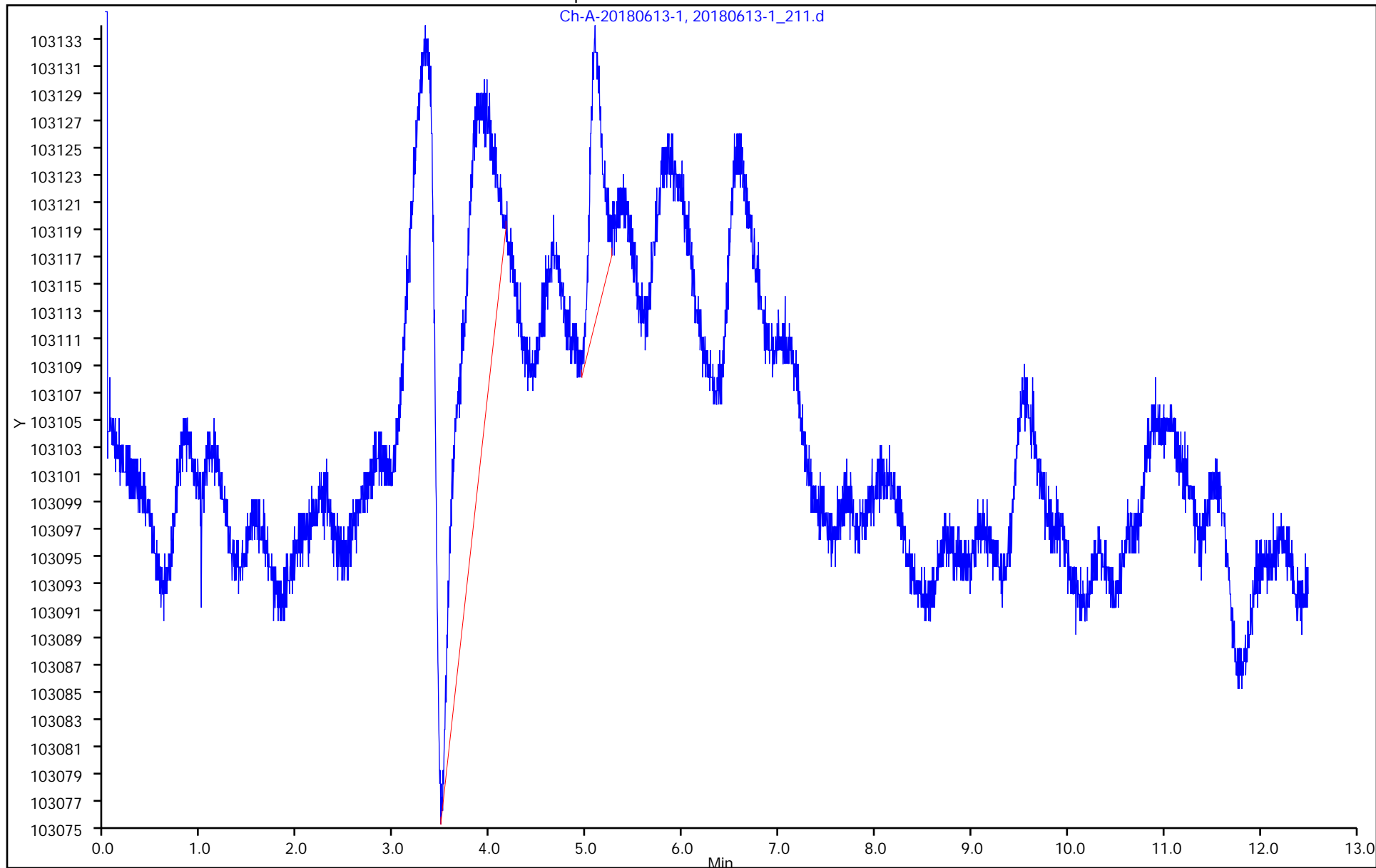
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL

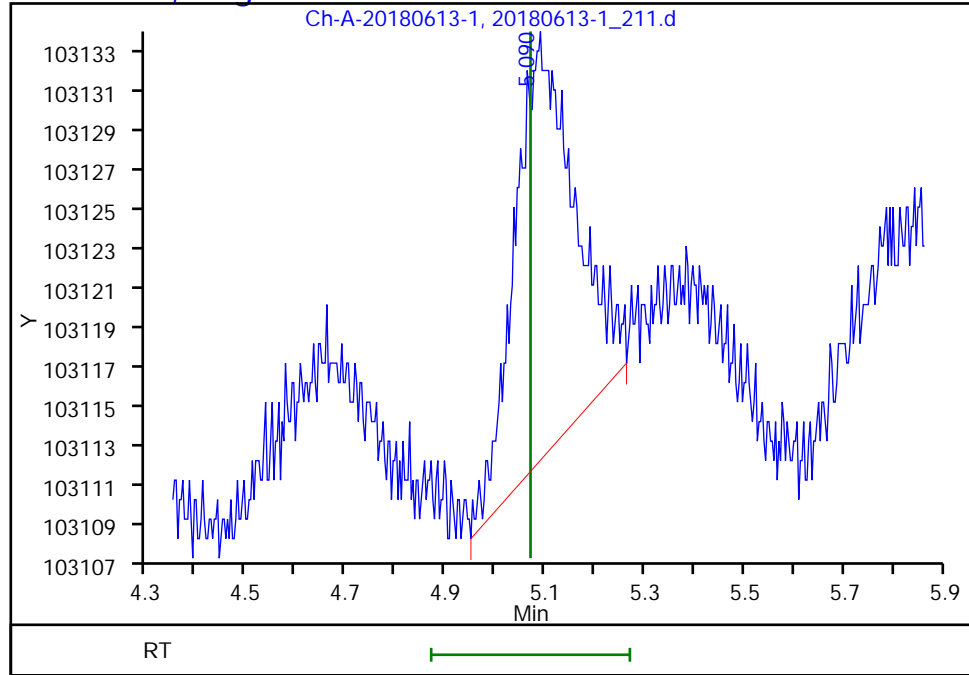


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_211.d
Injection Date: 20-Jun-2018 01:24:32 Instrument ID: IC-1
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

E 2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 5.09
Response: 182
Amount: -0.004663



Reviewer: richardsd, 20-Jun-2018 11:09:24
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_212.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jun-2018 01:39:07 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 212 Name: LCS
 Misc. Info.: Study: 480-0072458-027 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:10 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:09:50

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.823	3.823	0.000	257186	5.00	4.56	M
E 2 Chloride						
5.070	5.070	0.000	1585415	50.0	46.3	
5 Sulfate						
6.500	6.480	0.020	1192549	50.0	45.9	
3 Bromide						
7.947	7.920	0.027	67391	5.00	4.84	
4 Nitrate as N						
9.157	9.100	0.057	391595	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207

Amount Added: 5000.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_212.d

Injection Date: 20-Jun-2018 01:39:07

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: LCS

Worklist Smp#: 27

Client ID:

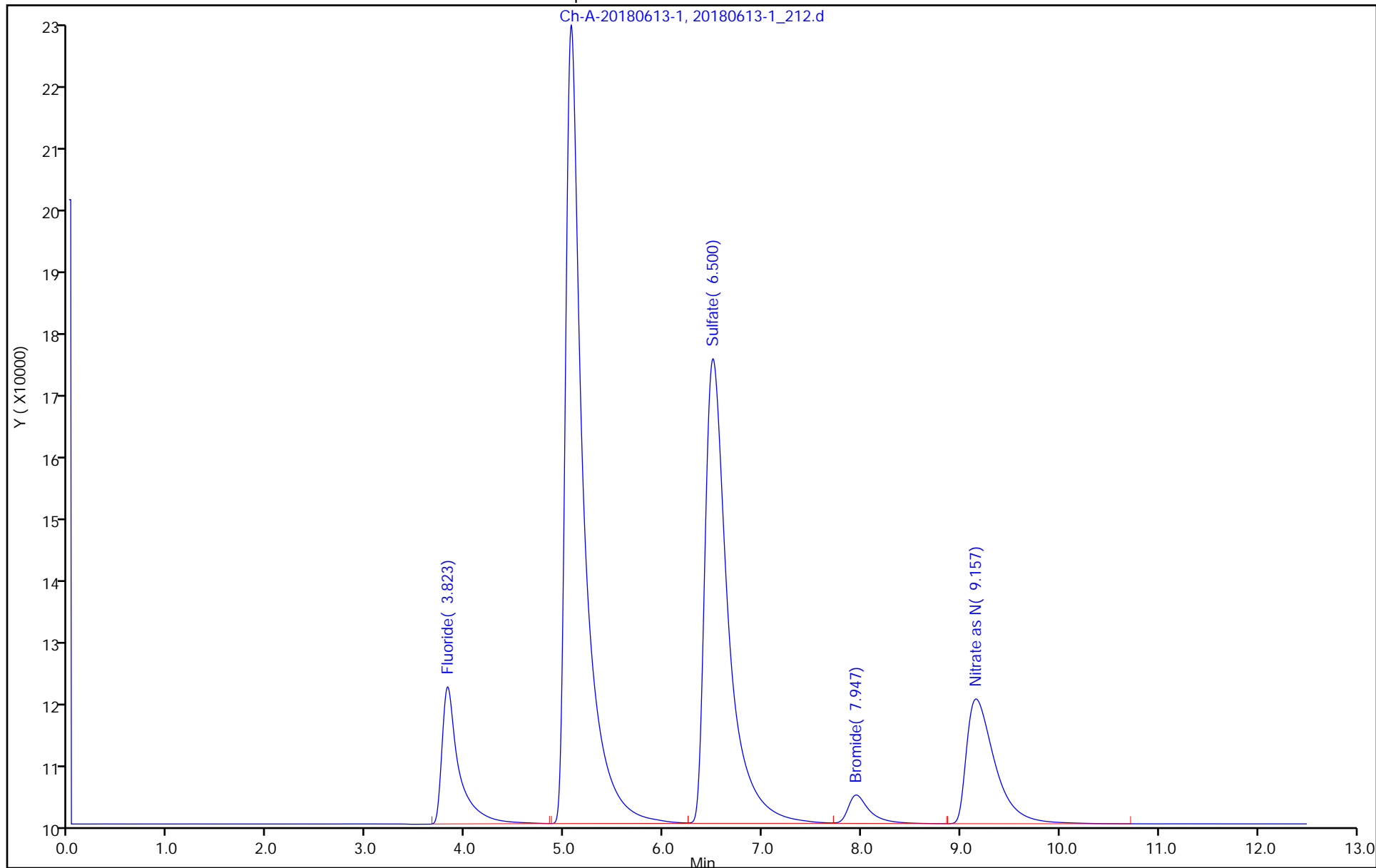
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_213.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Jun-2018 01:53:42 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 213 Name: MB
 Misc. Info.: Study: 480-0072458-028 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:10 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002
 First Level Reviewer: richardsd Date: 20-Jun-2018 11:09:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_213.d

Injection Date: 20-Jun-2018 01:53:42

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: MB

Worklist Smp#: 28

Client ID:

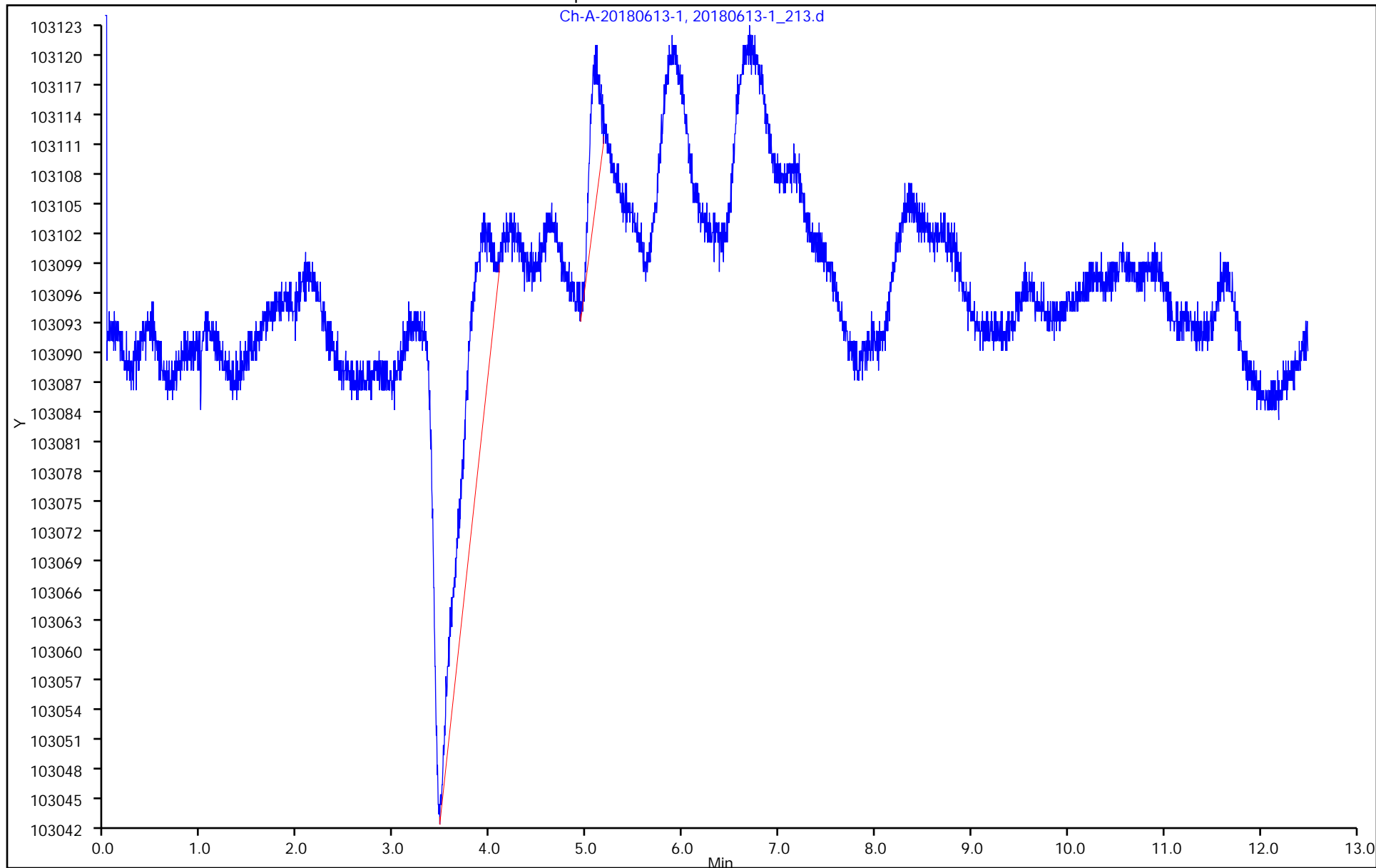
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL

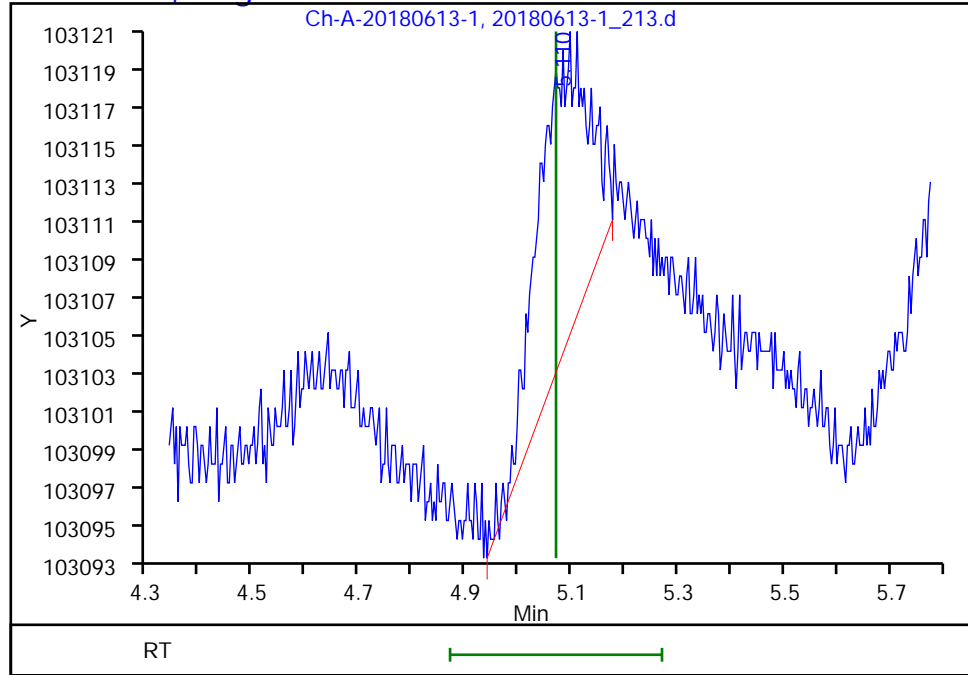


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_213.d
Injection Date: 20-Jun-2018 01:53:42 Instrument ID: IC-1
Lims ID: MB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

E 2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 5.11
Response: 109
Amount: -0.006794



Reviewer: richardsd, 20-Jun-2018 11:09:54
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_219.d
 Lims ID: 480-137434-E-1
 Client ID: LAB-SBW15
 Sample Type: Client
 Inject. Date: 20-Jun-2018 03:21:13 ALS Bottle#: 0 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: #: 219 Name: 480-137434-E-1
 Misc. Info.: Study: 480-0072458-034 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:10 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:10:11

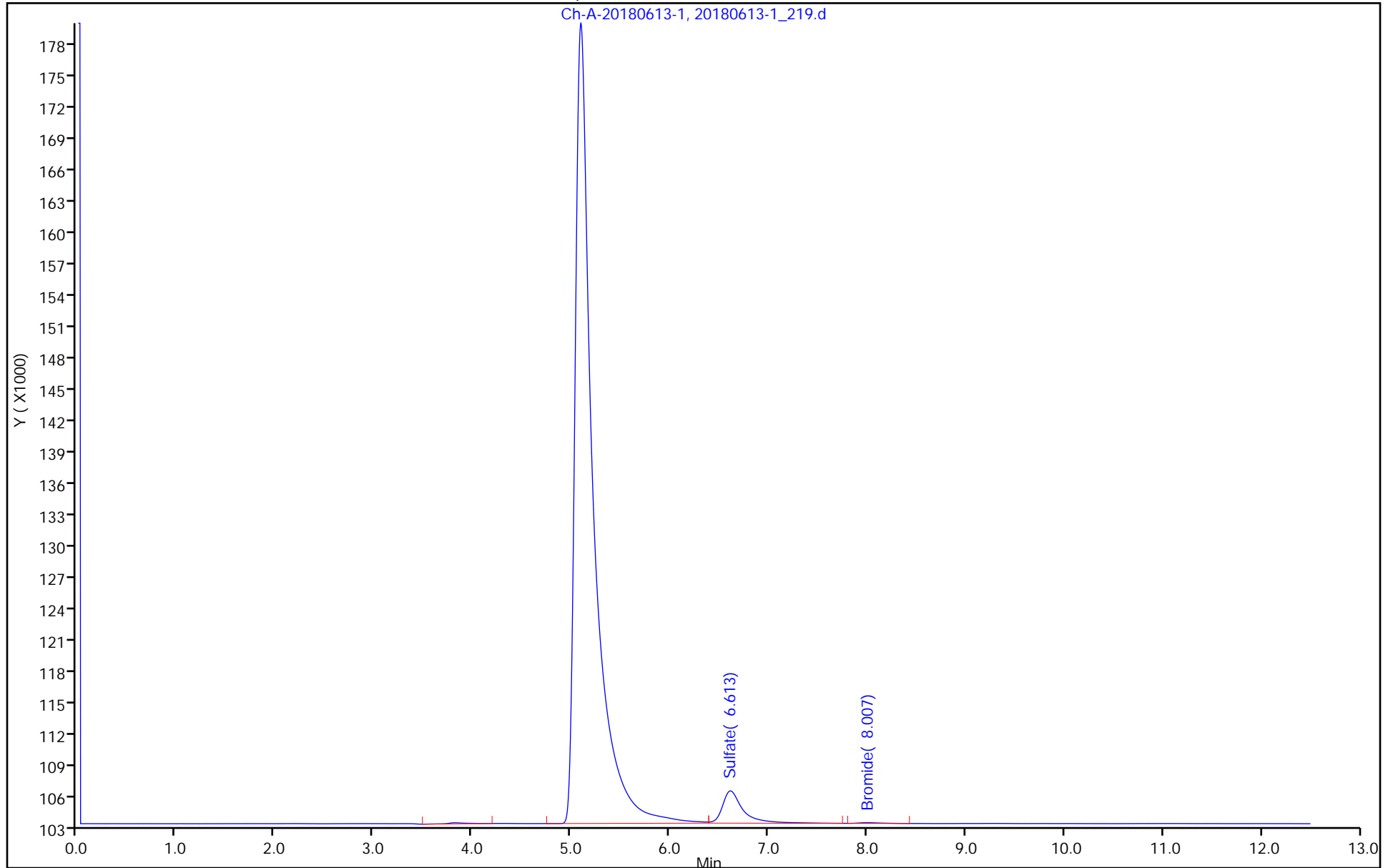
RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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E 2 Chloride
 5.097 5.070 0.027 978012 28.5
 5 Sulfate
 6.613 6.480 0.133 44686 1.65
 3 Bromide
 8.007 7.920 0.087 1020 0.0832

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_219.d
Injection Date: 20-Jun-2018 03:21:13 Instrument ID: IC-1
Lims ID: 480-137434-E-1 Lab Sample ID: 480-137434-1
Client ID: LAB-SBW15
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Method: IC1-300 Limit Group: MB 9056 ICAL

Operator ID: TChrom
Worklist Smp#: 34
ALS Bottle#: 0



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_220.d
 Lims ID: 480-137434-E-1 MS
 Client ID:
 Sample Type: MS
 Inject. Date: 20-Jun-2018 03:35:48 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: #: 220 Name: 480-137434-E-1 MS
 Misc. Info.: Study: 480-0072458-035 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:10 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:10:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.903	3.823	0.080	259552	5.00	4.61	M
E 2 Chloride						
5.170	5.070	0.100	2548551	50.0	74.4	
5 Sulfate						
6.573	6.480	0.093	1214029	50.0	46.8	
3 Bromide						
8.073	7.920	0.153	66971	5.00	4.81	
4 Nitrate as N						
9.277	9.100	0.177	387637	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_220.d

Injection Date: 20-Jun-2018 03:35:48

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: 480-137434-E-1 MS

Worklist Smp#: 35

Client ID:

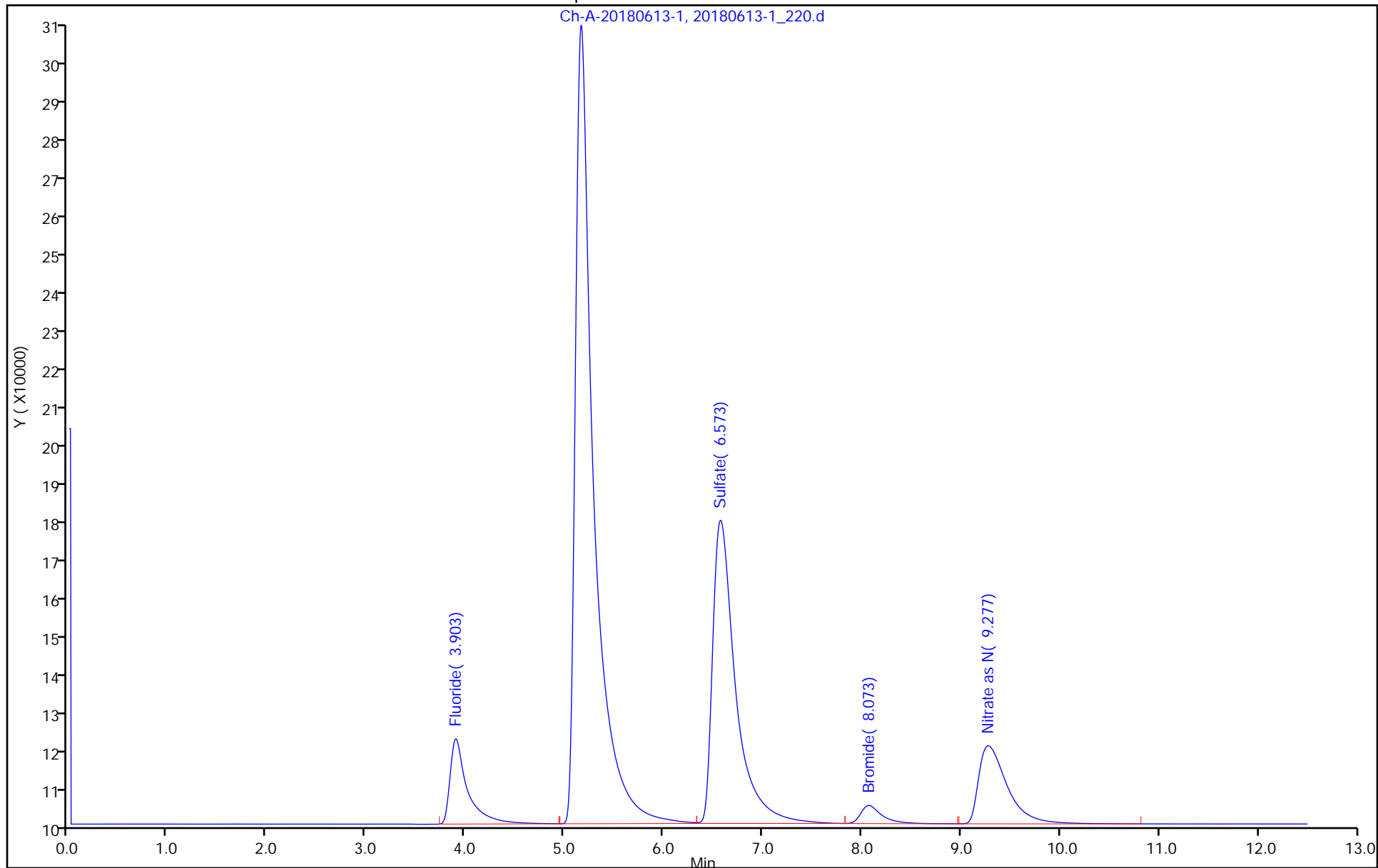
Injection Vol: 1.0 ul

Dil. Factor: 20.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_221.d
 Lims ID: 480-137434-E-1 MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 20-Jun-2018 03:50:23 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: #: 221 Name: 480-137434-E-1 MSD
 Misc. Info.: Study: 480-0072458-036 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:39 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:11:06

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.890	3.897	-0.007	253732	5.00	4.50	M
E 2 Chloride						
5.130	5.163	-0.033	2489148	50.0	72.6	
5 Sulfate						
6.500	6.553	-0.053	1200858	50.0	46.2	
3 Bromide						
7.983	8.010	-0.027	65375	5.00	4.69	
4 Nitrate as N						
9.197	9.210	-0.013	381885	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_221.d

Injection Date: 20-Jun-2018 03:50:23

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: 480-137434-E-1 MSD

Worklist Smp#: 36

Client ID:

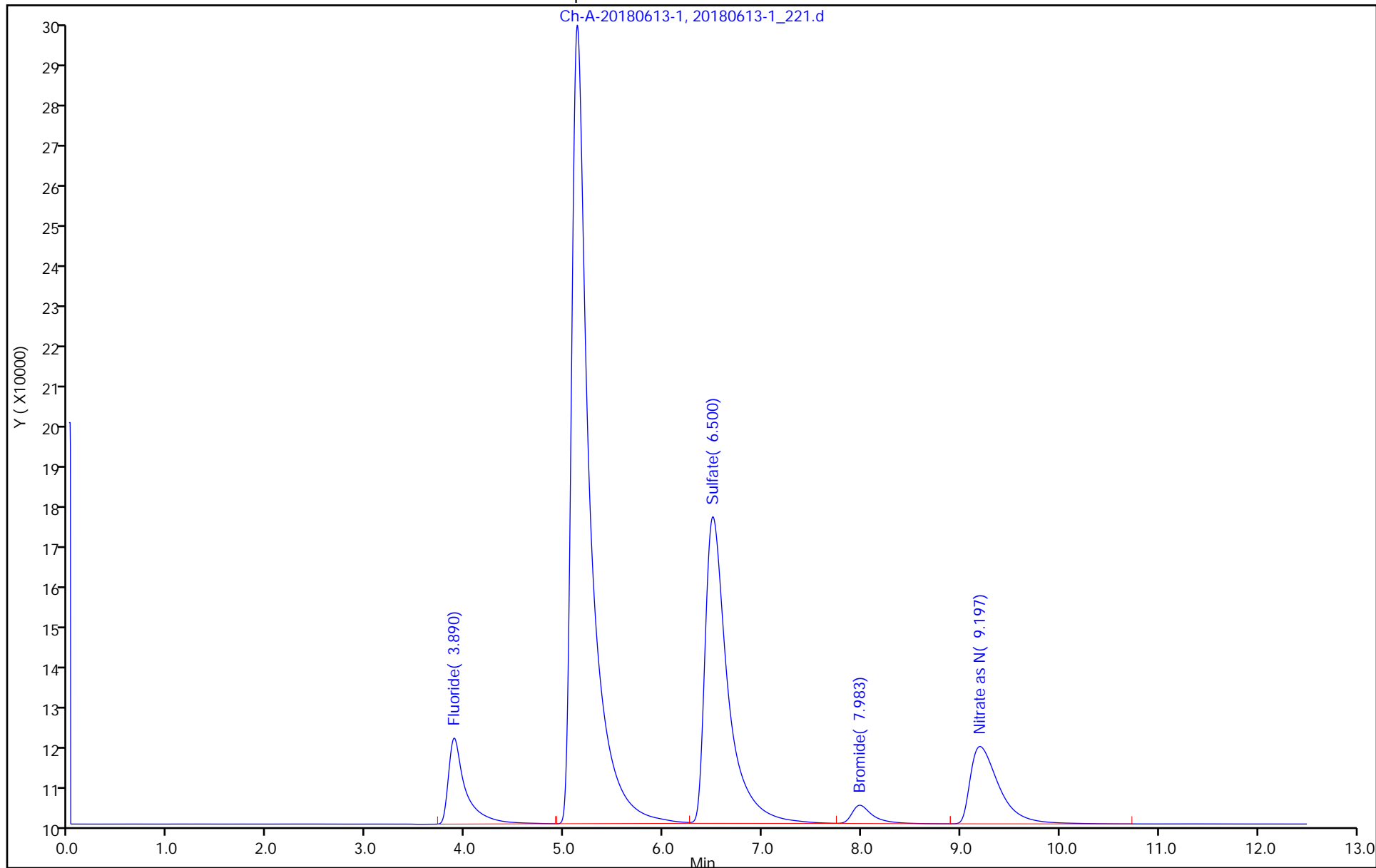
Injection Vol: 1.0 ul

Dil. Factor: 20.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_222.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jun-2018 04:04:59 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 222 Name: CCV
 Misc. Info.: Study: 480-0072458-037 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:27 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:11:22

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.897	3.897	0.000	266855	5.00	4.73	M
E 2 Chloride						
5.163	5.163	0.000	1593039	50.0	46.5	
5 Sulfate						
6.553	6.553	0.000	1221688	50.0	47.0	
3 Bromide						
8.010	8.010	0.000	67817	5.00	4.87	
4 Nitrate as N						
9.210	9.210	0.000	400236	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_222.d

Injection Date: 20-Jun-2018 04:04:59

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 37

Client ID:

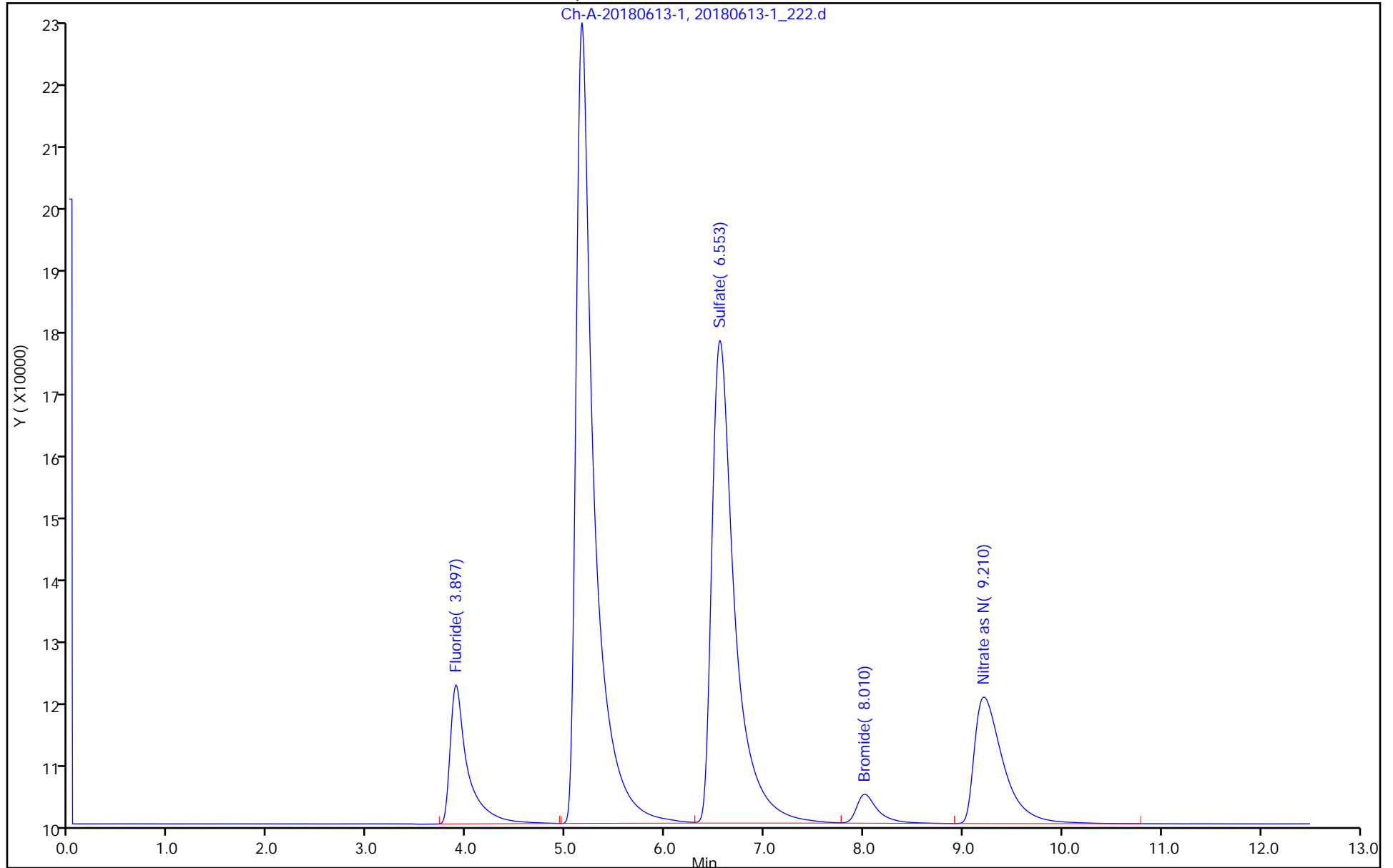
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_223.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 20-Jun-2018 04:19:34 ALS Bottle#: 0 Worklist Smp#: 38
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 223 Name: CCB
 Misc. Info.: Study: 480-0072458-038 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:27 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002
 First Level Reviewer: richardsd Date: 20-Jun-2018 11:11:27

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_223.d

Injection Date: 20-Jun-2018 04:19:34

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: CCB

Worklist Smp#: 38

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL

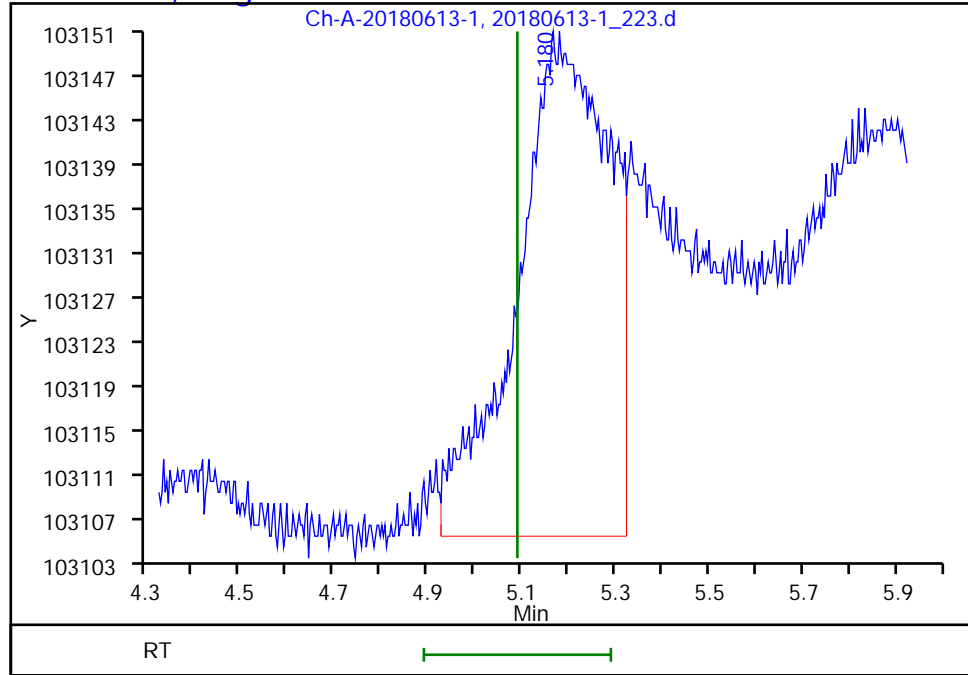


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_223.d
Injection Date: 20-Jun-2018 04:19:34 Instrument ID: IC-1
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

E 2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 5.18
Response: 629
Amount: 0.008385



Reviewer: richardsd, 20-Jun-2018 11:11:27
Audit Action: Marked Compound Undetected

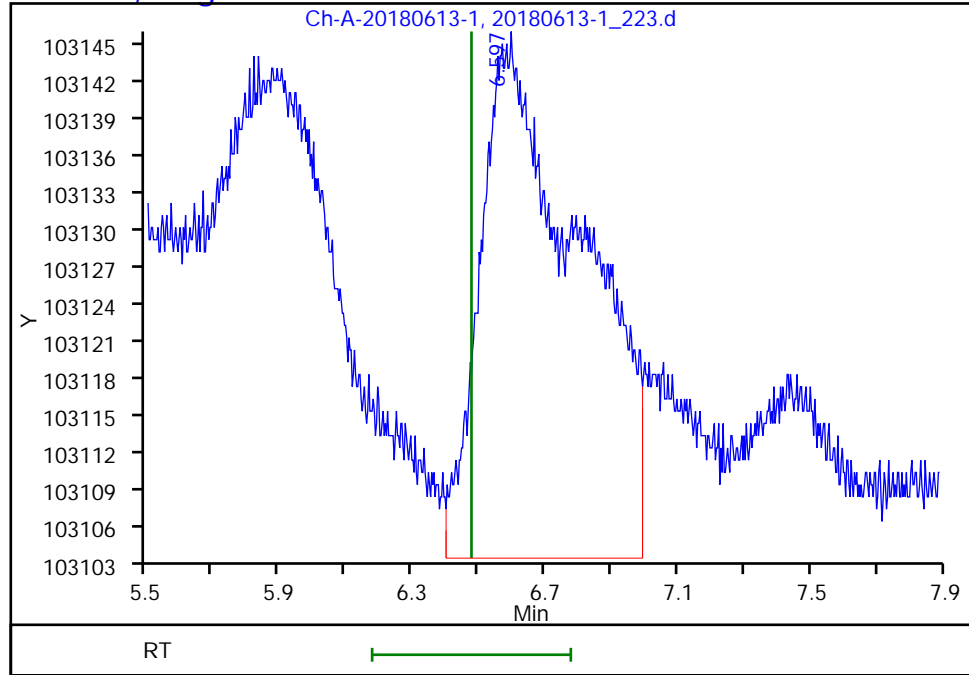
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_223.d
Injection Date: 20-Jun-2018 04:19:34 Instrument ID: IC-1
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8, Signal: 1

RT: 6.60
Response: 899
Amount: -0.036349



Reviewer: richardsd, 20-Jun-2018 11:11:27
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_224.d
 Lims ID: 480-137434-E-2
 Client ID: LAB-SBW16
 Sample Type: Client
 Inject. Date: 20-Jun-2018 04:34:09 ALS Bottle#: 0 Worklist Smp#: 39
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: #: 224 Name: 480-137434-E-2
 Misc. Info.: Study: 480-0072458-039 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 21-Jun-2018 12:38:09 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK014

First Level Reviewer: richardsd Date: 20-Jun-2018 11:11:30

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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E 2 Chloride					M
5.150	5.163	-0.013	622800	18.2	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_224.d

Injection Date: 20-Jun-2018 04:34:09

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: 480-137434-E-2

Lab Sample ID: 480-137434-2

Worklist Smp#: 39

Client ID: LAB-SBW16

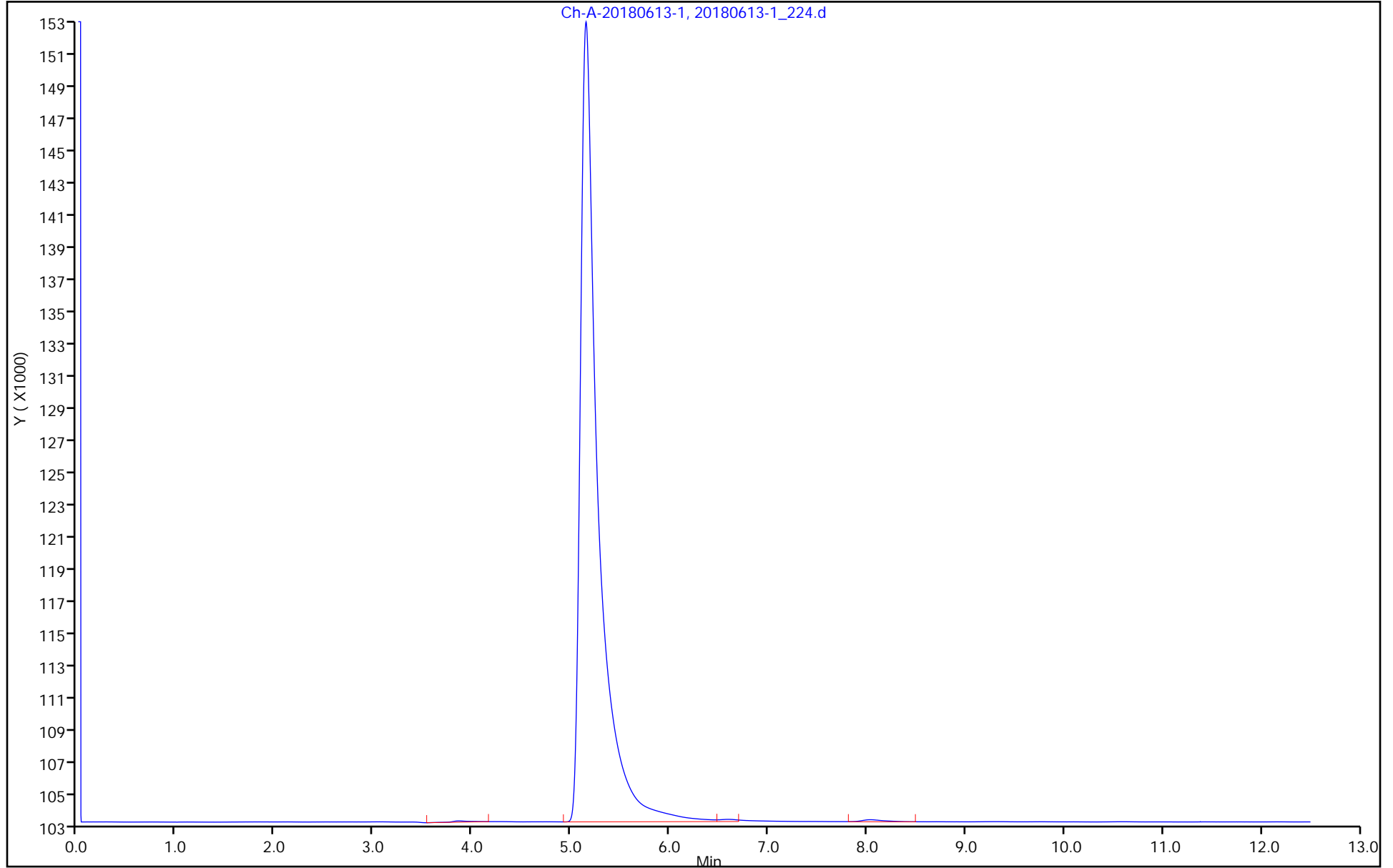
Injection Vol: 1.0 ul

Dil. Factor: 20.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



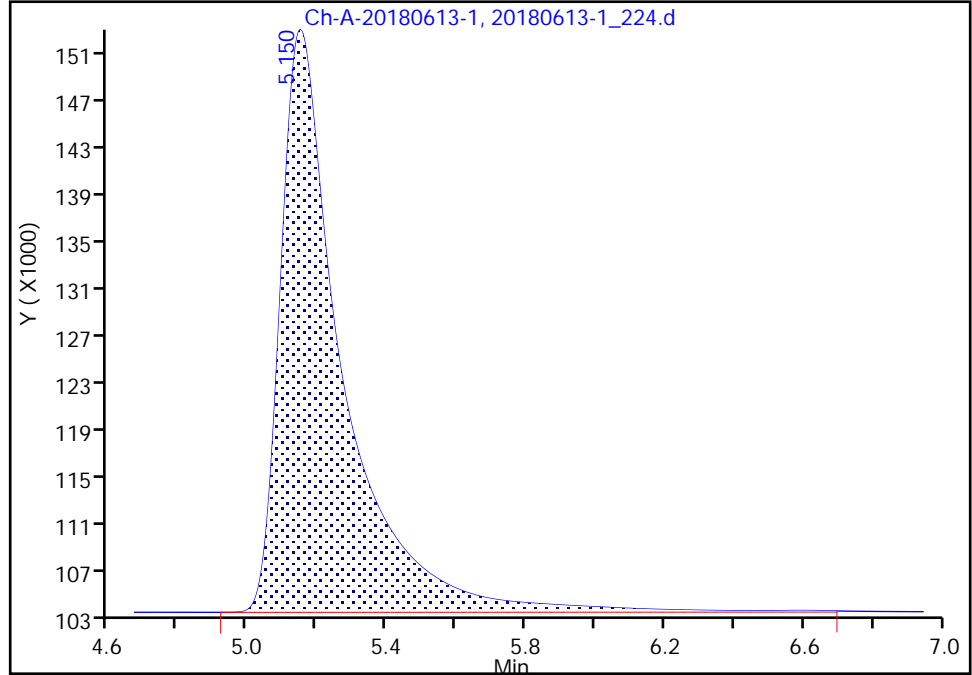
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_224.d
Injection Date: 20-Jun-2018 04:34:09 Instrument ID: IC-1
Lims ID: 480-137434-E-2 Lab Sample ID: 480-137434-2
Client ID: LAB-SBW16
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

E 2 Chloride, CAS: 16887-00-6
Signal: 1

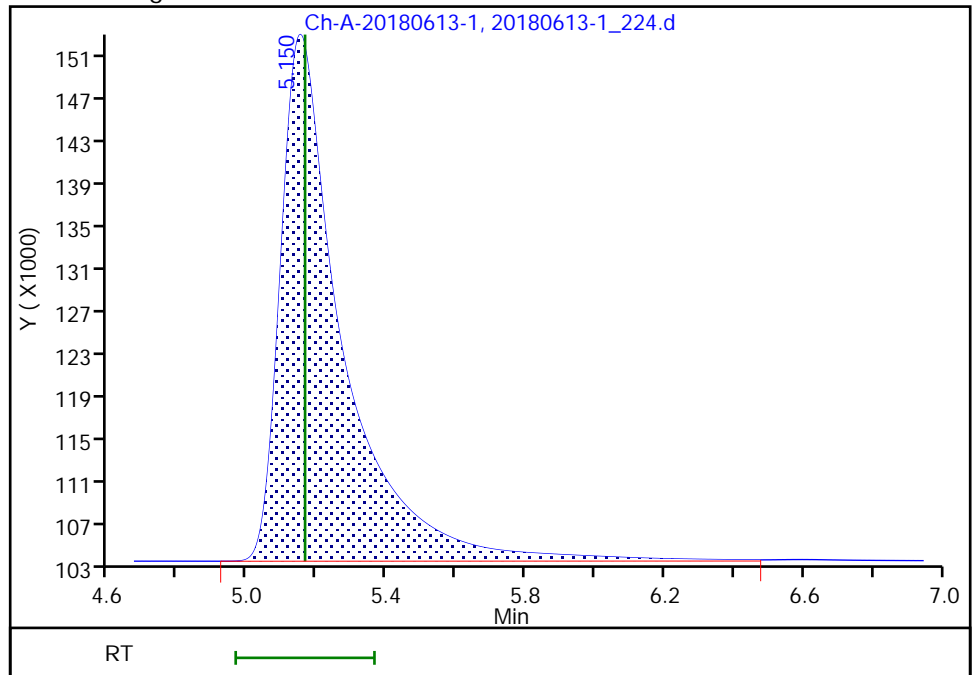
RT: 5.15
Area: 624345
Amount: 18.214931
Amount Units: ng/uL

Processing Integration Results



RT: 5.15
Area: 622800
Amount: 18.169832
Amount Units: ng/uL

Manual Integration Results



Reviewer: boonsiemj, 21-Jun-2018 12:38:06
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_234.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jun-2018 07:00:00 ALS Bottle#: 0 Worklist Smp#: 49
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 234 Name: CCV
 Misc. Info.: Study: 480-0072458-049 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Sublist: chrom-IC1-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:39 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002

First Level Reviewer: richardsd Date: 20-Jun-2018 11:12:26

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
3.967	3.967	0.000	268073	5.00	4.76	M
E 2 Chloride						
5.223	5.223	0.000	1621235	50.0	47.3	
5 Sulfate						
6.557	6.557	0.000	1239569	50.0	47.7	
3 Bromide						
8.093	8.093	0.000	70809	5.00	5.08	
4 Nitrate as N						
9.290	9.290	0.000	408640	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_234.d

Injection Date: 20-Jun-2018 07:00:00

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 49

Client ID:

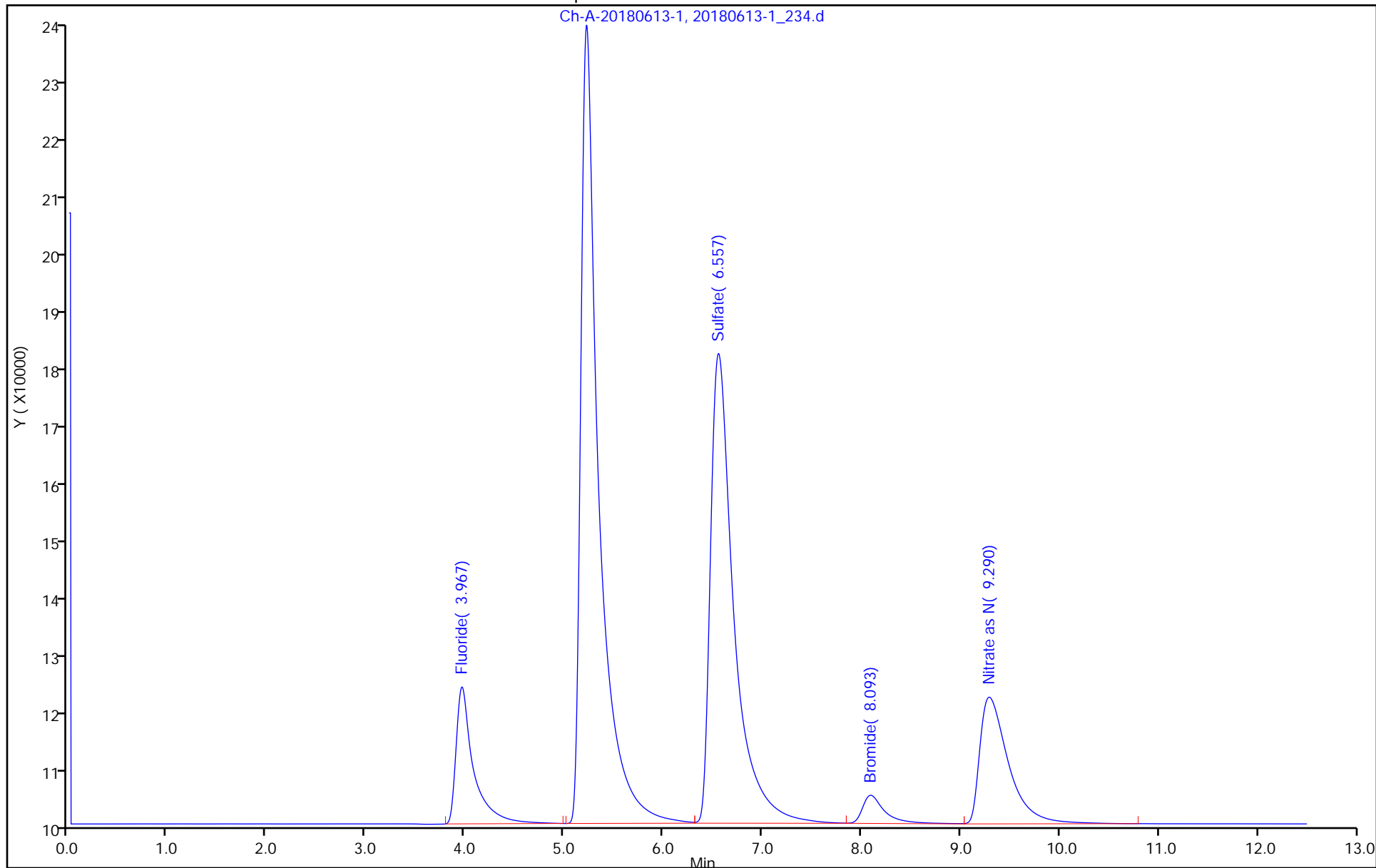
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_235.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 20-Jun-2018 07:14:35 ALS Bottle#: 0 Worklist Smp#: 50
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 235 Name: CCB
 Misc. Info.: Study: 480-0072458-050 Channel A: I/F Serial#, 5270271070
 Operator ID: TChrom Instrument ID: IC-1
 Method: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\IC1-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 20-Jun-2018 12:37:39 Calib Date: 16-Jun-2018 12:58:58
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-1\20180616-72391.b\20180613-1_163.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK002
 First Level Reviewer: richardsd Date: 20-Jun-2018 11:12:43

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_235.d

Injection Date: 20-Jun-2018 07:14:35

Instrument ID: IC-1

Operator ID: TChrom

Lims ID: CCB

Worklist Smp#: 50

Client ID:

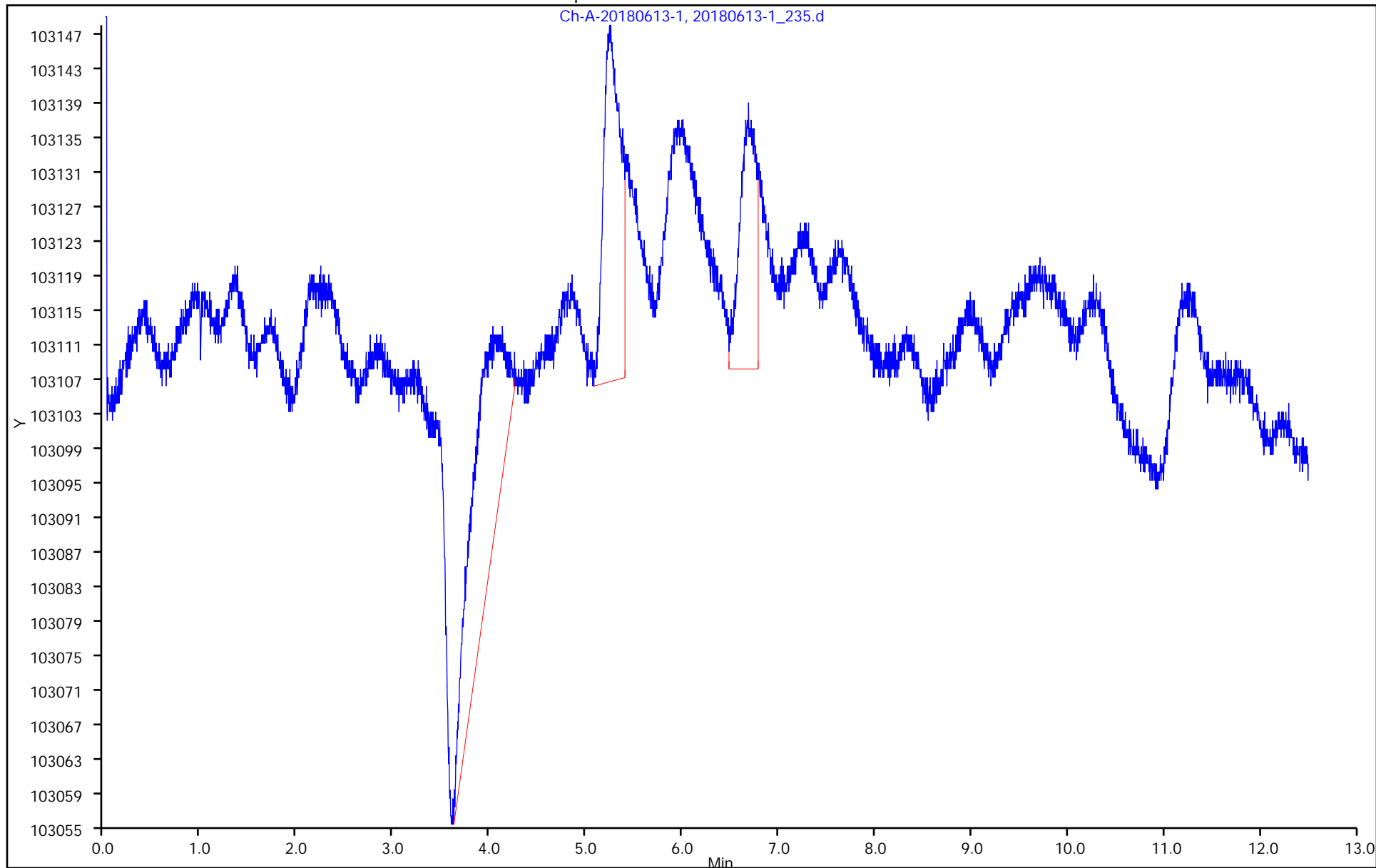
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC1-300

Limit Group: MB 9056 ICAL

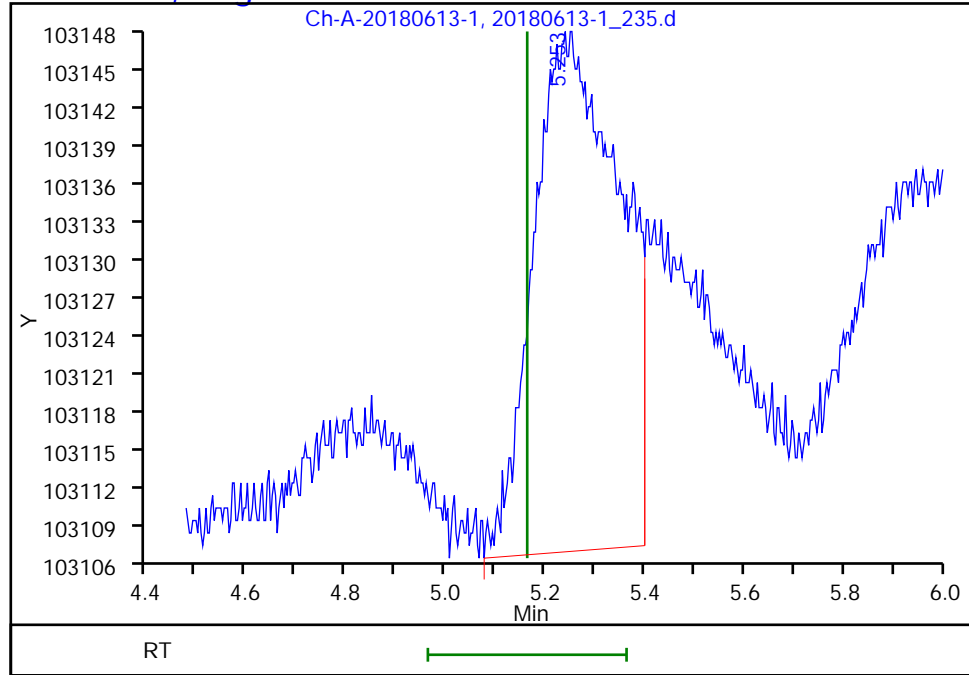


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_235.d
Injection Date: 20-Jun-2018 07:14:35 Instrument ID: IC-1
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

E 2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 5.25
Response: 496
Amount: 0.004503



Reviewer: richardsd, 20-Jun-2018 11:12:43
Audit Action: Marked Compound Undetected

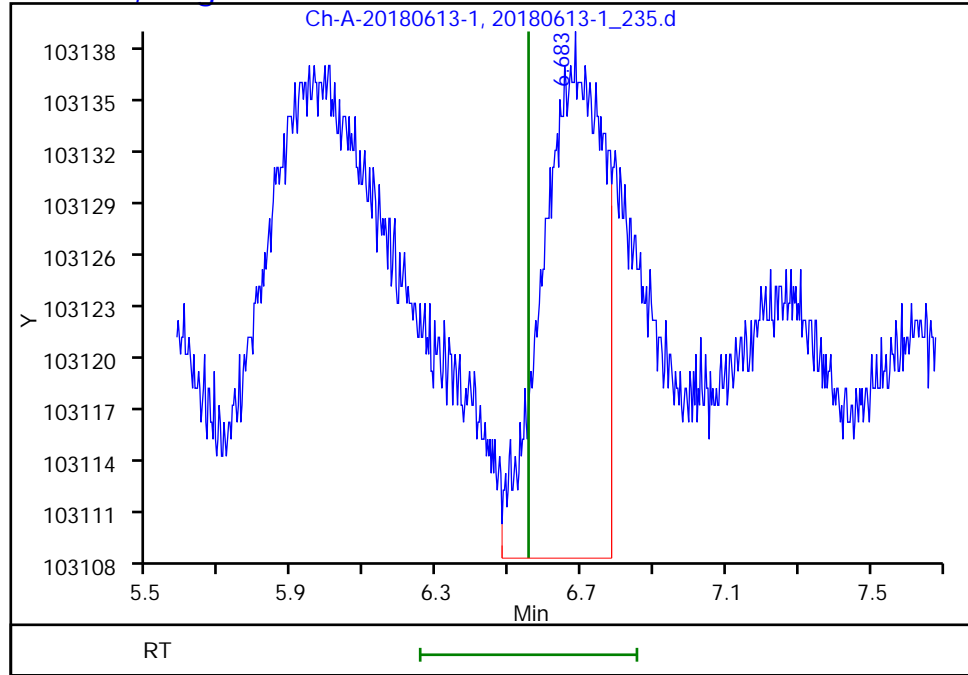
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-1\20180619-72458.b\20180613-1_235.d
Injection Date: 20-Jun-2018 07:14:35 Instrument ID: IC-1
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 50
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC1-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8, Signal: 1

RT: 6.68
Response: 345
Amount: -0.057717



Reviewer: richardsd, 20-Jun-2018 11:12:43
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

CURVE ON NEW SPEC 2

Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

418534

Analyst: MAL	Calibration Curve Information		
Start Date: 6-7-18		Conc. (mg/L)	ABS.
Start Time: 1245	STD1	0.000	0.000
End Time:	Std. 2	0.100	0.019
	Std. 3	0.500	0.074
DATE OF CURVE= 4/6/2018	Std. 4	1.000	0.160
	Std. 5	3.000	0.399

469836
 CURVE SOLUTION:
 4562865

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9977
Slope:	0.13206
Intercept:	0.00890

PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	4562862 4698495
0.7625 of FAS (3916794) up to 0.5L	6-7-18
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	3188795

4595762

LCS Information:	
Solution #	4565972
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4565972
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
MB	BLANK	25			0.000	1	ND	ND		
LCS	2 PPM	25			0.000	1	ND	ND	#VALUE!	
	0	25	0		0.000	1	ND	ND		
	0.1	25	0.021		0.000	1	ND	ND		
	0.5	25	0.091		0.000	1	ND	ND		
	1.0	25	0.173		0.000	1	ND	ND		
	3.0	25	0.509		0.000	1	ND	ND		
(2 PPM) ICV		25	0.374		2.1954 2.000	1	ND	ND	110%	
ICB		25	0		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

MAL
 6-7-18

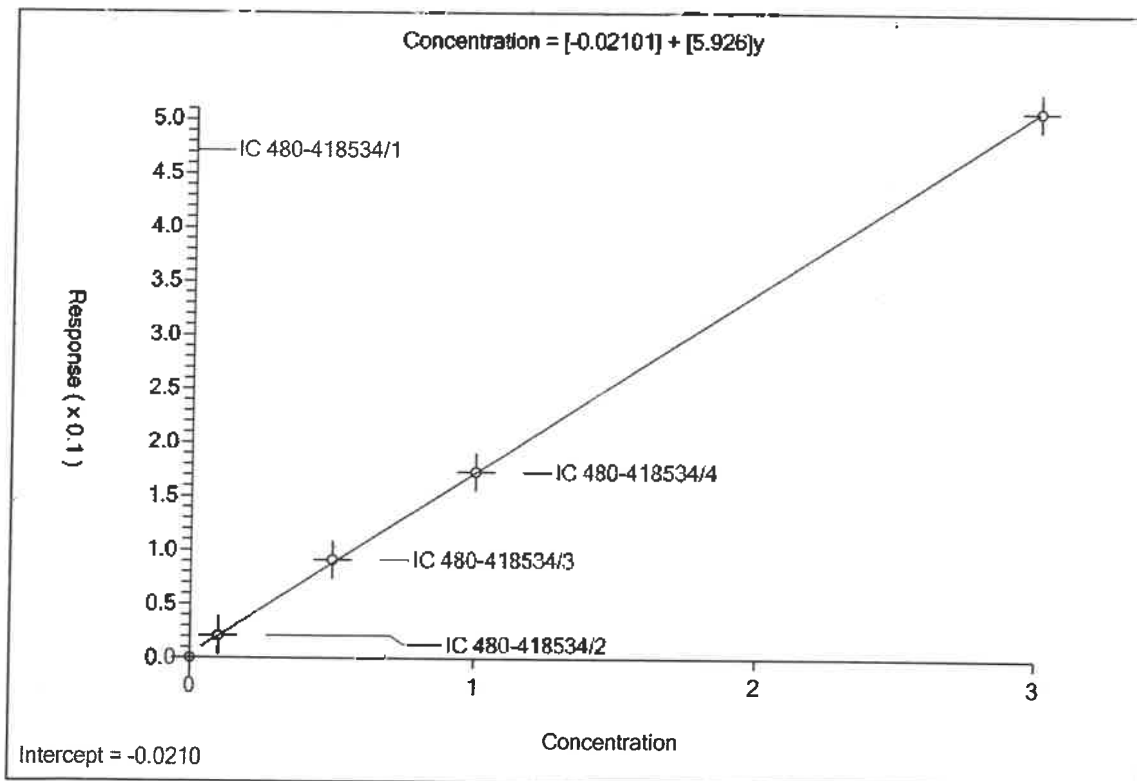
Calibration

Calib 418534-0 / Ferrous Iron

Curve Type: Linear
 Weighting: None
 Origin: None
 Dependency: Concentration
 Calib Mode: ESTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02101
Slope:	5.926
Error Coefficients	
Standard Error:	0.0166
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	RF	IS Response	RF	Used
1	IC 480-418534/1	0.0	0.0		NaN		NaN	Y
2	IC 480-418534/2	0.021	0.021		0.0523		0.21	Y
3	IC 480-418534/3	0.091	0.091		0.0455		0.182	Y
4	IC 480-418534/4	1.0	0.173		0.0493		0.173	Y
5	IC 480-418534/5	3.0	0.509		0.0417		0.169667	Y



Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

420230

Analyst: MDL		Calibration Curve Information	
Start Date: 6-18-18		Conc. (mg/L)	ABS.
Start Time: 1300		STD1	0.000
End Time:		Std. 2	0.100
		Std. 3	0.500
		Std. 4	1.000
DATE OF CURVE= 6/7/2018		Std. 5	3.000
			0.021
			0.091
			0.173
			0.500

CURVE SOLUTION:
 4582863

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9999
Slope:	0.16873
Intercept:	0.00357

PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	
0.7025 of FAS (3916794) up to 0.5L	
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	9488795

4595762
 MDL 6-18-18

LCS information:	
Solution #	4717546
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4717546
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25	0.306		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		
MB	BLANK	25	0		0.000	1	ND	ND		
LCS	2 PPM	25	0.320		0.000	1	ND	ND	#VALUE!	
137185	E-1	25	0.125	0.099	0.000	1	ND	ND		
↓	E-1 DV	25	0.130	0.103	0.000	1	ND	ND		
137434	B-1	25	0.065	0.048	0.000	1	ND	ND		
↓	D-2	25	0.371	0.353	0.000	1	ND	ND		
137527	B-1	25	0.010	0.011	0.000	1	ND	ND		
↓	C-2	25	0.005	0.003	0.000	1	ND	ND		
↓	C-2ms	25	0.171	0.003	0.000	1	ND	ND		
137605	B-1	25	0.098	0.082	0.000	1	ND	ND		
CCV	2 PPM	25	0.359		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		
137605	B-3	25	0.122	0.120	0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25	0.357		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		

MDL
 6-18-18

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 419834 Batch Start Date: 06/15/18 11:08 Batch Analyst: Foster, Michelle R

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-137434-C-1	LAB-SBW15	353.2	T	5 mL	5 mL				
480-137434-C-2	LAB-SBW16	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 420675 Batch Start Date: 06/20/18 10:40 Batch Analyst: Bauer, Matthew J

Batch Method: SM 4500 S2 F Batch End Date: 06/20/18 14:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount
CCV 480-420675/1		SM 4500 S2 F		0.00 mL	2.60 mL	5 mL	2.6 mL	100 mL	100 mL
CCB 480-420675/2		SM 4500 S2 F		2.60 mL	3.60 mL	1 mL	1 mL	100 mL	100 mL
MB 480-420675/3		SM 4500 S2 F		3.60 mL	4.60 mL	1 mL	1 mL	100 mL	100 mL
LCS 480-420675/4		SM 4500 S2 F		4.60 mL	7.40 mL	5 mL	2.8 mL	100 mL	100 mL
480-137434-A-1	LAB-SBW15	SM 4500 S2 F	T	12.90 mL	13.90 mL	2 mL	1 mL	100 mL	100 mL
480-137434-A-2	LAB-SBW16	SM 4500 S2 F	T	13.90 mL	14.90 mL	1 mL	1 mL	100 mL	100 mL
CCV 480-420675/13		SM 4500 S2 F		15.90 mL	18.50 mL	5 mL	2.6 mL	100 mL	100 mL
CCB 480-420675/14		SM 4500 S2 F		18.50 mL	19.50 mL	1 mL	1 mL	100 mL	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00237	Sulfide LCS 00237				
CCV 480-420675/1		SM 4500 S2 F		1 mL					
CCB 480-420675/2		SM 4500 S2 F							
MB 480-420675/3		SM 4500 S2 F							
LCS 480-420675/4		SM 4500 S2 F			1 mL				
480-137434-A-1	LAB-SBW15	SM 4500 S2 F	T						
480-137434-A-2	LAB-SBW16	SM 4500 S2 F	T						
CCV 480-420675/13		SM 4500 S2 F		1 mL					
CCB 480-420675/14		SM 4500 S2 F							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 420675 Batch Start Date: 06/20/18 10:40 Batch Analyst: Bauer, Matthew J

Batch Method: SM 4500 S2 F Batch End Date: 06/20/18 14:58

Batch Notes	
Buret ID	1
Hydrochloric Acid ID	4716898
Iodine ID	4449717
Normality of Iodine Solution	0.025 N
Sodium Thiosulfate ID	4487459
Nominal Amount Used	100 mL
Starch Reagent ID	4454657
Normality of First Titrant	0.025 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 419836 Batch Start Date: 06/15/18 11:12 Batch Analyst: Foster, Michelle R

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-137434-C-1	LAB-SBW15	353.2	T	5 mL	5 mL				
480-137434-C-2	LAB-SBW16	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 419999 Batch Start Date: 06/16/18 11:46 Batch Analyst: Abramo, Charles L

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STD 00036				
IC 480-419999/5		9056A		5 mL	2.5 uL				
IC 480-419999/6		9056A		5 mL	10 uL				
IC 480-419999/7		9056A		5 mL	25 uL				
IC 480-419999/8		9056A		5 mL	100 uL				
IC 480-419999/9		9056A		5 mL	250 uL				
IC 480-419999/10		9056A		5 mL	500 uL				

Batch Notes	
Eluent 1 ID	171211929010
Filter ID	11703055

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 420474 Batch Start Date: 06/19/18 19:19 Batch Analyst: Richards, Devon M

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_ANION_LCS_ 00207	IC_ANION_STD 00036		
CCV 480-420474/25		9056A		5 mL		5000 uL			
CCB 480-420474/26		9056A		5 mL					
LCS 480-420474/27		9056A		5 mL		5000 uL			
MB 480-420474/28		9056A		5 mL					
480-137434-E-1	LAB-SBW15	9056A	T	5 mL					
480-137434-E-1 MS	LAB-SBW15	9056A	T	5 mL			250 uL		
480-137434-E-1 MSD	LAB-SBW15	9056A	T	5 mL			250 uL		
CCV 480-420474/37		9056A		5 mL		5000 uL			
CCB 480-420474/38		9056A		5 mL					
480-137434-E-2	LAB-SBW16	9056A	T	5 mL	1.0 mL				
CCV 480-420474/49		9056A		5 mL		5000 uL			
CCB 480-420474/50		9056A		5 mL					

Batch Notes	
Eluent 1 ID	171211929010
Filter ID	11703055

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 418534 Batch Start Date: 06/07/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm ICV 00020	
IC 480-418534/1		SM 3500 FE D		100 mL	100 mL	0 Absorbance	OK w/o Correction		
IC 480-418534/2		SM 3500 FE D		100 mL	100 mL	0.021 Absorbance	OK w/o Correction	0.05 mL	
IC 480-418534/3		SM 3500 FE D		100 mL	100 mL	0.091 Absorbance	OK w/o Correction	0.25 mL	
IC 480-418534/4		SM 3500 FE D		100 mL	100 mL	0.173 Absorbance	OK w/o Correction	0.5 mL	
IC 480-418534/5		SM 3500 FE D		100 mL	100 mL	0.509 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Batch Number: 420230 Batch Start Date: 06/18/18 13:00 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00022
CCV 480-420230/1		SM 3500 FE D		25 mL	25 mL		0.306 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-420230/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-420230/4		SM 3500 FE D		25 mL	25 mL		0.320 Absorbance	OK w/o Correction	0.25 mL
480-137434-B-1	LAB-SBW15	SM 3500 FE D	T	25 mL	25 mL	0.048 Absorbance	0.065 Absorbance	OK	
480-137434-D-2	LAB-SBW16	SM 3500 FE D	T	25 mL	25 mL	0.353 Absorbance	0.371 Absorbance	OK	
CCV 480-420230/13		SM 3500 FE D		25 mL	25 mL		0.359 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/14		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record

Client Information Client Contact: Allain Engelbert Company: LaBella Associates DPC Address: 300 State Street, Suite 201 City: Rochester State, Zip: NY, 14614 Phone: 210173 Email: aengelbert@labellapc.com Project Name: Former Emerson Street Landfill Project Site: FESL		Lab PM: Deyo, Melissa L. E-Mail: melissa.deyo@testamericainc.com Phone: 585-471-1307		Carrier Tracking No(s): COC No: 480-114142-25355.1 Page: Page 1 of 3 Job #:			
Due Date Requested: TAT Requested (days): PO #: 210173 WO #:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 9056A_28D - Chloride & Sulfate <input checked="" type="checkbox"/> 952.2_253.2, Nitrite, Nitrate, Calo <input checked="" type="checkbox"/> RSK_175 - Ethane & Ethene <input checked="" type="checkbox"/> 9M4500_52_F - Sulfide <input checked="" type="checkbox"/> 3500_FE_D - Ferrus Iron <input checked="" type="checkbox"/> 8260C - TCL VOCs + TICs <input checked="" type="checkbox"/>					
Sample Identification LAB-SBW15 LAB-SBW16/MS/MSD DVPE		Sample Date 6/13/18 6/13/18 6/13/18	Sample Time 1430 1015 1015	Sample Type (C=Comp, G=grab) G G G	Matrix (Water, Sediment, On-surface, Air) Water Water Water Water Water Water Water Water Water Water	Preservation Code: MS/MSD VOC/SONLY 207 3	Special Instructions/Note: Total Number of containers 11 207 3
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify) *NYS EQUIS EDD, ASP CAT B RPT*		Special Instructions/QC Requirements:					
Empty Kit Relinquished by: Jensen E. Porter Date: 6/13/18 17:30 Company: Labella		Method of Shipment:					
Relinquished by: Jensen E. Porter Date: 6/13/18 17:30 Company: Labella		Received by: FedEx Date/Time: 6/13/18 17:30 Company: FedEx					
Relinquished by: Jensen E. Porter Date: 6/13/18 17:30 Company: Labella		Received by: Calabrese Date/Time: 6/14/18 0845 Company: LAB					
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks: #1 3.2					

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-137434-1

Login Number: 137434

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

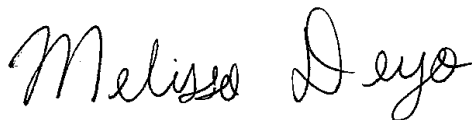
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-137527-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
6/25/2018 1:58 PM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
06/25/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

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Job Narrative
480-137527-1

Receipt

The samples were received on 6/15/2018 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-421204 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: ML-7-I (480-137527-1), ML-7-D (480-137527-2) and DUPE (480-137527-3).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-7-I (480-137527-1), ML-7-D (480-137527-2), ML-7-D (480-137527-2[MS]), ML-7-D (480-137527-2[MSD]) and DUPE (480-137527-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-7-I (480-137527-1) and ML-7-D (480-137527-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: ML-7-I (480-137527-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: ML-7-I (480-137527-1) and ML-7-D (480-137527-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137527-1	ML-7-I	Water	06/14/18 10:05	06/15/18 10:45
480-137527-2	ML-7-D	Water	06/14/18 14:05	06/15/18 10:45
480-137527-3	DUPE	Water	06/14/18 00:00	06/15/18 10:45

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: ML-7-I

Lab Sample ID: 480-137527-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	41		20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	460		20	7.6	ug/L	20		8260C	Total/NA
Benzene	23		20	8.2	ug/L	20		8260C	Total/NA
Chloroethane	50		20	6.4	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	560		20	16	ug/L	20		8260C	Total/NA
Dichlorodifluoromethane	22		20	14	ug/L	20		8260C	Total/NA
Toluene	90		20	10	ug/L	20		8260C	Total/NA
Vinyl chloride	360		20	18	ug/L	20		8260C	Total/NA
Ethane	120		83	17	ug/L	11		RSK-175	Total/NA
Ethene	700		77	17	ug/L	11		RSK-175	Total/NA
Chloride	933		5.0	2.8	mg/L	10		9056A	Total/NA

Client Sample ID: ML-7-D

Lab Sample ID: 480-137527-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	66		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	6.4		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	170		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	12	J	50	6.6	ug/L	5		8260C	Total/NA
Acetone	26	J	50	15	ug/L	5		8260C	Total/NA
Benzene	7.7		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	27		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	58		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	1.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Trichloroethene	14		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0	4.5	ug/L	5		8260C	Total/NA
Ethane	37		7.5	1.5	ug/L	1		RSK-175	Total/NA
Nitrate	9.7		0.050	0.020	mg/L as N	1		353.2	Total/NA
Nitrite	0.086		0.050	0.020	mg/L as N	1		353.2	Total/NA
Chloride	796		10.0	5.6	mg/L	20		9056A	Total/NA
Sulfate	868		40.0	7.0	mg/L	20		9056A	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 480-137527-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	69		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	J	5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	180		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	12	J	50	6.6	ug/L	5		8260C	Total/NA
Acetone	29	J	50	15	ug/L	5		8260C	Total/NA
Benzene	8.0		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	26		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	64		5.0	4.1	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	1.7	J	5.0	0.80	ug/L	5		8260C	Total/NA
Trichloroethene	13		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0	4.5	ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9056A	Anions, Ion Chromatography	SW846	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: ML-7-I
Date Collected: 06/14/18 10:05
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			06/23/18 15:43	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			06/23/18 15:43	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			06/23/18 15:43	20
1,1,2-Trichloro-1,2,2-trifluoroethane	41		20	6.2	ug/L			06/23/18 15:43	20
1,1-Dichloroethane	460		20	7.6	ug/L			06/23/18 15:43	20
1,1-Dichloroethene	ND		20	5.8	ug/L			06/23/18 15:43	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			06/23/18 15:43	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			06/23/18 15:43	20
1,2-Dichlorobenzene	ND		20	16	ug/L			06/23/18 15:43	20
1,2-Dichloroethane	ND		20	4.2	ug/L			06/23/18 15:43	20
1,2-Dichloropropane	ND		20	14	ug/L			06/23/18 15:43	20
1,3-Dichlorobenzene	ND		20	16	ug/L			06/23/18 15:43	20
1,4-Dichlorobenzene	ND		20	17	ug/L			06/23/18 15:43	20
2-Butanone (MEK)	ND		200	26	ug/L			06/23/18 15:43	20
2-Hexanone	ND		100	25	ug/L			06/23/18 15:43	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			06/23/18 15:43	20
Acetone	ND		200	60	ug/L			06/23/18 15:43	20
Benzene	23		20	8.2	ug/L			06/23/18 15:43	20
Bromodichloromethane	ND		20	7.8	ug/L			06/23/18 15:43	20
Bromoform	ND		20	5.2	ug/L			06/23/18 15:43	20
Bromomethane	ND		20	14	ug/L			06/23/18 15:43	20
Carbon disulfide	ND		20	3.8	ug/L			06/23/18 15:43	20
Carbon tetrachloride	ND		20	5.4	ug/L			06/23/18 15:43	20
Chlorobenzene	ND		20	15	ug/L			06/23/18 15:43	20
Dibromochloromethane	ND		20	6.4	ug/L			06/23/18 15:43	20
Chloroethane	50		20	6.4	ug/L			06/23/18 15:43	20
Chloroform	ND		20	6.8	ug/L			06/23/18 15:43	20
Chloromethane	ND		20	7.0	ug/L			06/23/18 15:43	20
cis-1,2-Dichloroethene	560		20	16	ug/L			06/23/18 15:43	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			06/23/18 15:43	20
Cyclohexane	ND		20	3.6	ug/L			06/23/18 15:43	20
Dichlorodifluoromethane	22		20	14	ug/L			06/23/18 15:43	20
Ethylbenzene	ND		20	15	ug/L			06/23/18 15:43	20
1,2-Dibromoethane	ND		20	15	ug/L			06/23/18 15:43	20
Isopropylbenzene	ND		20	16	ug/L			06/23/18 15:43	20
Methyl acetate	ND		50	26	ug/L			06/23/18 15:43	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			06/23/18 15:43	20
Methylcyclohexane	ND		20	3.2	ug/L			06/23/18 15:43	20
Methylene Chloride	ND		20	8.8	ug/L			06/23/18 15:43	20
Styrene	ND		20	15	ug/L			06/23/18 15:43	20
Tetrachloroethene	ND		20	7.2	ug/L			06/23/18 15:43	20
Toluene	90		20	10	ug/L			06/23/18 15:43	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			06/23/18 15:43	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			06/23/18 15:43	20
Trichloroethene	ND		20	9.2	ug/L			06/23/18 15:43	20
Trichlorofluoromethane	ND		20	18	ug/L			06/23/18 15:43	20
Vinyl chloride	360		20	18	ug/L			06/23/18 15:43	20
Xylenes, Total	ND		40	13	ug/L			06/23/18 15:43	20

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: ML-7-I
Date Collected: 06/14/18 10:05
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/23/18 15:43	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					06/23/18 15:43	20
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					06/23/18 15:43	20
4-Bromofluorobenzene (Surr)	97		73 - 120					06/23/18 15:43	20
Dibromofluoromethane (Surr)	98		75 - 123					06/23/18 15:43	20

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	120		83	17	ug/L			06/19/18 14:31	11
Ethene	700		77	17	ug/L			06/19/18 14:31	11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND		0.050	0.020	mg/L as N			06/15/18 19:15	1
Nitrite	ND		0.050	0.020	mg/L as N			06/15/18 19:15	1
Chloride	933		5.0	2.8	mg/L			06/21/18 22:57	10
Sulfate	ND		20.0	3.5	mg/L			06/21/18 22:57	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/18 13:00	1
Sulfide	ND		1.0	0.67	mg/L			06/21/18 10:44	1

Client Sample ID: ML-7-D
Date Collected: 06/14/18 14:05
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	66		5.0	4.1	ug/L			06/23/18 16:07	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/23/18 16:07	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/23/18 16:07	5
1,1,2-Trichloro-1,2,2-trifluoroethane	6.4		5.0	1.6	ug/L			06/23/18 16:07	5
1,1-Dichloroethane	170		5.0	1.9	ug/L			06/23/18 16:07	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/23/18 16:07	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/23/18 16:07	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/23/18 16:07	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/23/18 16:07	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/23/18 16:07	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/23/18 16:07	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/23/18 16:07	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/23/18 16:07	5
2-Butanone (MEK)	12 J		50	6.6	ug/L			06/23/18 16:07	5
2-Hexanone	ND		25	6.2	ug/L			06/23/18 16:07	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/23/18 16:07	5
Acetone	26 J		50	15	ug/L			06/23/18 16:07	5
Benzene	7.7		5.0	2.1	ug/L			06/23/18 16:07	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/23/18 16:07	5
Bromoform	ND		5.0	1.3	ug/L			06/23/18 16:07	5
Bromomethane	ND		5.0	3.5	ug/L			06/23/18 16:07	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/23/18 16:07	5

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: ML-7-D

Lab Sample ID: 480-137527-2

Date Collected: 06/14/18 14:05

Matrix: Water

Date Received: 06/15/18 10:45

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/23/18 16:07	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/23/18 16:07	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/23/18 16:07	5
Chloroethane	27		5.0	1.6	ug/L			06/23/18 16:07	5
Chloroform	ND		5.0	1.7	ug/L			06/23/18 16:07	5
Chloromethane	ND		5.0	1.8	ug/L			06/23/18 16:07	5
cis-1,2-Dichloroethene	58		5.0	4.1	ug/L			06/23/18 16:07	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/23/18 16:07	5
Cyclohexane	ND		5.0	0.90	ug/L			06/23/18 16:07	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/23/18 16:07	5
Ethylbenzene	ND		5.0	3.7	ug/L			06/23/18 16:07	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/23/18 16:07	5
Isopropylbenzene	ND		5.0	4.0	ug/L			06/23/18 16:07	5
Methyl acetate	ND		13	6.5	ug/L			06/23/18 16:07	5
Methyl tert-butyl ether	1.7	J	5.0	0.80	ug/L			06/23/18 16:07	5
Methylcyclohexane	ND		5.0	0.80	ug/L			06/23/18 16:07	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/23/18 16:07	5
Styrene	ND		5.0	3.7	ug/L			06/23/18 16:07	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/23/18 16:07	5
Toluene	ND		5.0	2.6	ug/L			06/23/18 16:07	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/23/18 16:07	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/23/18 16:07	5
Trichloroethene	14		5.0	2.3	ug/L			06/23/18 16:07	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/23/18 16:07	5
Vinyl chloride	16		5.0	4.5	ug/L			06/23/18 16:07	5
Xylenes, Total	ND		10	3.3	ug/L			06/23/18 16:07	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Furan, tetrahydro-</i>	54	T J N	ug/L		4.71	109-99-9		06/23/18 16:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	98		80 - 120		06/23/18 16:07	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		77 - 120		06/23/18 16:07	5
<i>4-Bromofluorobenzene (Surr)</i>	97		73 - 120		06/23/18 16:07	5
<i>Dibromofluoromethane (Surr)</i>	102		75 - 123		06/23/18 16:07	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	37		7.5	1.5	ug/L			06/19/18 12:29	1
Ethene	ND		7.0	1.5	ug/L			06/19/18 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	9.7		0.050	0.020	mg/L as N			06/15/18 20:40	1
Nitrite	0.086		0.050	0.020	mg/L as N			06/15/18 20:40	1
Chloride	796		10.0	5.6	mg/L			06/21/18 23:05	20
Sulfate	868		40.0	7.0	mg/L			06/21/18 23:05	20
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/18 13:00	1
Sulfide	ND		1.0	0.67	mg/L			06/21/18 10:44	1

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: DUPE
Date Collected: 06/14/18 00:00
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	69		5.0	4.1	ug/L			06/23/18 16:30	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/23/18 16:30	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/23/18 16:30	5
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	J	5.0	1.6	ug/L			06/23/18 16:30	5
1,1-Dichloroethane	180		5.0	1.9	ug/L			06/23/18 16:30	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/23/18 16:30	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/23/18 16:30	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/23/18 16:30	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/23/18 16:30	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/23/18 16:30	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/23/18 16:30	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/23/18 16:30	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/23/18 16:30	5
2-Butanone (MEK)	12	J	50	6.6	ug/L			06/23/18 16:30	5
2-Hexanone	ND		25	6.2	ug/L			06/23/18 16:30	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/23/18 16:30	5
Acetone	29	J	50	15	ug/L			06/23/18 16:30	5
Benzene	8.0		5.0	2.1	ug/L			06/23/18 16:30	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/23/18 16:30	5
Bromoform	ND		5.0	1.3	ug/L			06/23/18 16:30	5
Bromomethane	ND		5.0	3.5	ug/L			06/23/18 16:30	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/23/18 16:30	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/23/18 16:30	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/23/18 16:30	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/23/18 16:30	5
Chloroethane	26		5.0	1.6	ug/L			06/23/18 16:30	5
Chloroform	ND		5.0	1.7	ug/L			06/23/18 16:30	5
Chloromethane	ND		5.0	1.8	ug/L			06/23/18 16:30	5
cis-1,2-Dichloroethene	64		5.0	4.1	ug/L			06/23/18 16:30	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/23/18 16:30	5
Cyclohexane	ND		5.0	0.90	ug/L			06/23/18 16:30	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/23/18 16:30	5
Ethylbenzene	ND		5.0	3.7	ug/L			06/23/18 16:30	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/23/18 16:30	5
Isopropylbenzene	ND		5.0	4.0	ug/L			06/23/18 16:30	5
Methyl acetate	ND		13	6.5	ug/L			06/23/18 16:30	5
Methyl tert-butyl ether	1.7	J	5.0	0.80	ug/L			06/23/18 16:30	5
Methylcyclohexane	ND		5.0	0.80	ug/L			06/23/18 16:30	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/23/18 16:30	5
Styrene	ND		5.0	3.7	ug/L			06/23/18 16:30	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/23/18 16:30	5
Toluene	ND		5.0	2.6	ug/L			06/23/18 16:30	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/23/18 16:30	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/23/18 16:30	5
Trichloroethene	13		5.0	2.3	ug/L			06/23/18 16:30	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/23/18 16:30	5
Vinyl chloride	16		5.0	4.5	ug/L			06/23/18 16:30	5
Xylenes, Total	ND		10	3.3	ug/L			06/23/18 16:30	5

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: DUPE
Date Collected: 06/14/18 00:00
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-3
Matrix: Water

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Furan, tetrahydro-</i>	55	T J N	ug/L		4.71	109-99-9		06/23/18 16:30	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	100		80 - 120					06/23/18 16:30	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		77 - 120					06/23/18 16:30	5
<i>4-Bromofluorobenzene (Surr)</i>	98		73 - 120					06/23/18 16:30	5
<i>Dibromofluoromethane (Surr)</i>	107		75 - 123					06/23/18 16:30	5

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-137527-1	ML-7-I	102	101	97	98
480-137527-2	ML-7-D	98	104	97	102
480-137527-2 MS	ML-7-D	103	105	101	105
480-137527-2 MSD	ML-7-D	103	105	98	102
480-137527-3	DUPE	100	105	98	107
LCS 480-421204/5	Lab Control Sample	101	98	100	101
MB 480-421204/7	Method Blank	104	105	101	106

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-421204/7

Matrix: Water

Analysis Batch: 421204

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/23/18 11:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/23/18 11:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/23/18 11:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/23/18 11:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/23/18 11:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/23/18 11:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/23/18 11:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/23/18 11:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/23/18 11:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/23/18 11:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/23/18 11:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/23/18 11:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/23/18 11:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/23/18 11:54	1
2-Hexanone	ND		5.0	1.2	ug/L			06/23/18 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/23/18 11:54	1
Acetone	ND		10	3.0	ug/L			06/23/18 11:54	1
Benzene	ND		1.0	0.41	ug/L			06/23/18 11:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/23/18 11:54	1
Bromoform	ND		1.0	0.26	ug/L			06/23/18 11:54	1
Bromomethane	ND		1.0	0.69	ug/L			06/23/18 11:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/23/18 11:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/23/18 11:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/23/18 11:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/23/18 11:54	1
Chloroethane	ND		1.0	0.32	ug/L			06/23/18 11:54	1
Chloroform	ND		1.0	0.34	ug/L			06/23/18 11:54	1
Chloromethane	ND		1.0	0.35	ug/L			06/23/18 11:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/23/18 11:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/23/18 11:54	1
Cyclohexane	ND		1.0	0.18	ug/L			06/23/18 11:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/23/18 11:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/23/18 11:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/23/18 11:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/23/18 11:54	1
Methyl acetate	ND		2.5	1.3	ug/L			06/23/18 11:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/23/18 11:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/23/18 11:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/23/18 11:54	1
Styrene	ND		1.0	0.73	ug/L			06/23/18 11:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/23/18 11:54	1
Toluene	ND		1.0	0.51	ug/L			06/23/18 11:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/23/18 11:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/23/18 11:54	1
Trichloroethene	ND		1.0	0.46	ug/L			06/23/18 11:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/23/18 11:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/23/18 11:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/23/18 11:54	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>06/23/18 11:54</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>104</i>		<i>80 - 120</i>		<i>06/23/18 11:54</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>105</i>		<i>77 - 120</i>		<i>06/23/18 11:54</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>101</i>		<i>73 - 120</i>		<i>06/23/18 11:54</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>106</i>		<i>75 - 123</i>		<i>06/23/18 11:54</i>	<i>1</i>

Lab Sample ID: LCS 480-421204/5
Matrix: Water
Analysis Batch: 421204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5		ug/L		94	61 - 148
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	25.6		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	56 - 134
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.9		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	80 - 120
2-Butanone (MEK)	125	118		ug/L		94	57 - 140
2-Hexanone	125	111		ug/L		88	65 - 127
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	25.5		ug/L		102	80 - 122
Bromoform	25.0	25.9		ug/L		104	61 - 132
Bromomethane	25.0	22.3		ug/L		89	55 - 144
Carbon disulfide	25.0	24.2		ug/L		97	59 - 134
Carbon tetrachloride	25.0	28.3		ug/L		113	72 - 134
Chlorobenzene	25.0	25.1		ug/L		100	80 - 120
Dibromochloromethane	25.0	26.9		ug/L		108	75 - 125
Chloroethane	25.0	22.9		ug/L		92	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	20.9		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		99	74 - 124
Cyclohexane	25.0	27.7		ug/L		111	59 - 135
Dichlorodifluoromethane	25.0	20.4		ug/L		82	59 - 135
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	23.2		ug/L		93	77 - 120
Isopropylbenzene	25.0	26.5		ug/L		106	77 - 122
Methyl acetate	50.0	43.1		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120
Methylcyclohexane	25.0	27.4		ug/L		110	68 - 134
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-421204/5

Matrix: Water

Analysis Batch: 421204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	25.1		ug/L		100	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	22.8		ug/L		91	62 - 150
Vinyl chloride	25.0	22.4		ug/L		90	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: 480-137527-2 MS

Matrix: Water

Analysis Batch: 421204

Client Sample ID: ML-7-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	66		125	201		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	ND		125	127		ug/L		102	76 - 120
1,1,2-Trichloroethane	ND		125	131		ug/L		105	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	6.4		125	156		ug/L		120	61 - 148
1,1-Dichloroethane	170		125	290		ug/L		99	77 - 120
1,1-Dichloroethene	ND		125	147		ug/L		117	66 - 127
1,2,4-Trichlorobenzene	ND		125	131		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	ND		125	133		ug/L		106	56 - 134
1,2-Dichlorobenzene	ND		125	124		ug/L		99	80 - 124
1,2-Dichloroethane	ND		125	127		ug/L		101	75 - 120
1,2-Dichloropropane	ND		125	128		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		125	125		ug/L		100	77 - 120
1,4-Dichlorobenzene	ND		125	129		ug/L		103	78 - 124
2-Butanone (MEK)	12 J		625	667		ug/L		105	57 - 140
2-Hexanone	ND		625	585		ug/L		94	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		625	590		ug/L		94	71 - 125
Acetone	26 J		625	650		ug/L		100	56 - 142
Benzene	7.7		125	138		ug/L		104	71 - 124
Bromodichloromethane	ND		125	142		ug/L		114	80 - 122
Bromoform	ND		125	141		ug/L		113	61 - 132
Bromomethane	ND		125	118		ug/L		94	55 - 144
Carbon disulfide	ND		125	129		ug/L		103	59 - 134
Carbon tetrachloride	ND		125	149		ug/L		119	72 - 134
Chlorobenzene	ND		125	129		ug/L		104	80 - 120
Dibromochloromethane	ND		125	140		ug/L		112	75 - 125
Chloroethane	27		125	147		ug/L		96	69 - 136
Chloroform	ND		125	127		ug/L		102	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-137527-2 MS

Matrix: Water

Analysis Batch: 421204

Client Sample ID: ML-7-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloromethane	ND		125	106		ug/L		85	68 - 124	
cis-1,2-Dichloroethene	58		125	187		ug/L		103	74 - 124	
cis-1,3-Dichloropropene	ND		125	134		ug/L		107	74 - 124	
Cyclohexane	ND		125	145		ug/L		116	59 - 135	
Dichlorodifluoromethane	ND		125	106		ug/L		85	59 - 135	
Ethylbenzene	ND		125	134		ug/L		108	77 - 123	
1,2-Dibromoethane	ND		125	125		ug/L		100	77 - 120	
Isopropylbenzene	ND		125	132		ug/L		106	77 - 122	
Methyl acetate	ND		250	240		ug/L		96	74 - 133	
Methyl tert-butyl ether	1.7	J	125	132		ug/L		104	77 - 120	
Methylcyclohexane	ND		125	147		ug/L		118	68 - 134	
Methylene Chloride	ND		125	119		ug/L		95	75 - 124	
Styrene	ND		125	131		ug/L		104	80 - 120	
Tetrachloroethene	ND		125	130		ug/L		104	74 - 122	
Toluene	ND		125	133		ug/L		106	80 - 122	
trans-1,2-Dichloroethene	ND		125	138		ug/L		110	73 - 127	
trans-1,3-Dichloropropene	ND		125	127		ug/L		102	80 - 120	
Trichloroethene	14		125	142		ug/L		103	74 - 123	
Trichlorofluoromethane	ND		125	130		ug/L		104	62 - 150	
Vinyl chloride	16		125	133		ug/L		94	65 - 133	
Surrogate		MS %Recovery	MS Qualifier	Limits						
Toluene-d8 (Surr)		103		80 - 120						
1,2-Dichloroethane-d4 (Surr)		105		77 - 120						
4-Bromofluorobenzene (Surr)		101		73 - 120						
Dibromofluoromethane (Surr)		105		75 - 123						

Lab Sample ID: 480-137527-2 MSD

Matrix: Water

Analysis Batch: 421204

Client Sample ID: ML-7-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1,1-Trichloroethane	66		125	200		ug/L		107	73 - 126		1	15
1,1,2,2-Tetrachloroethane	ND		125	132		ug/L		105	76 - 120		3	15
1,1,2-Trichloroethane	ND		125	125		ug/L		100	76 - 122		5	15
1,1,2-Trichloro-1,2,2-trifluoroethane	6.4		125	136		ug/L		103	61 - 148		14	20
1,1-Dichloroethane	170		125	292		ug/L		100	77 - 120		1	20
1,1-Dichloroethene	ND		125	139		ug/L		111	66 - 127		5	16
1,2,4-Trichlorobenzene	ND		125	131		ug/L		105	79 - 122		0	20
1,2-Dibromo-3-Chloropropane	ND		125	125		ug/L		100	56 - 134		6	15
1,2-Dichlorobenzene	ND		125	129		ug/L		103	80 - 124		4	20
1,2-Dichloroethane	ND		125	128		ug/L		103	75 - 120		1	20
1,2-Dichloropropane	ND		125	127		ug/L		101	76 - 120		1	20
1,3-Dichlorobenzene	ND		125	129		ug/L		103	77 - 120		3	20
1,4-Dichlorobenzene	ND		125	128		ug/L		103	78 - 124		1	20
2-Butanone (MEK)	12	J	625	641		ug/L		101	57 - 140		4	20
2-Hexanone	ND		625	569		ug/L		91	65 - 127		3	15

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-137527-2 MSD

Matrix: Water

Analysis Batch: 421204

Client Sample ID: ML-7-D

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
4-Methyl-2-pentanone (MIBK)	ND		625	583		ug/L		93	71 - 125	1	35
Acetone	26	J	625	664		ug/L		102	56 - 142	2	15
Benzene	7.7		125	141		ug/L		106	71 - 124	2	13
Bromodichloromethane	ND		125	140		ug/L		112	80 - 122	1	15
Bromoform	ND		125	141		ug/L		113	61 - 132	0	15
Bromomethane	ND		125	118		ug/L		94	55 - 144	0	15
Carbon disulfide	ND		125	131		ug/L		105	59 - 134	1	15
Carbon tetrachloride	ND		125	145		ug/L		116	72 - 134	3	15
Chlorobenzene	ND		125	134		ug/L		107	80 - 120	4	25
Dibromochloromethane	ND		125	145		ug/L		116	75 - 125	3	15
Chloroethane	27		125	150		ug/L		99	69 - 136	2	15
Chloroform	ND		125	129		ug/L		103	73 - 127	2	20
Chloromethane	ND		125	108		ug/L		86	68 - 124	1	15
cis-1,2-Dichloroethene	58		125	190		ug/L		106	74 - 124	1	15
cis-1,3-Dichloropropene	ND		125	134		ug/L		107	74 - 124	0	15
Cyclohexane	ND		125	137		ug/L		109	59 - 135	6	20
Dichlorodifluoromethane	ND		125	107		ug/L		86	59 - 135	1	20
Ethylbenzene	ND		125	135		ug/L		108	77 - 123	1	15
1,2-Dibromoethane	ND		125	128		ug/L		102	77 - 120	3	15
Isopropylbenzene	ND		125	138		ug/L		111	77 - 122	4	20
Methyl acetate	ND		250	240		ug/L		96	74 - 133	0	20
Methyl tert-butyl ether	1.7	J	125	129		ug/L		102	77 - 120	2	37
Methylcyclohexane	ND		125	148		ug/L		118	68 - 134	0	20
Methylene Chloride	ND		125	120		ug/L		96	75 - 124	1	15
Styrene	ND		125	134		ug/L		108	80 - 120	3	20
Tetrachloroethene	ND		125	132		ug/L		106	74 - 122	2	20
Toluene	ND		125	134		ug/L		107	80 - 122	1	15
trans-1,2-Dichloroethene	ND		125	141		ug/L		113	73 - 127	2	20
trans-1,3-Dichloropropene	ND		125	133		ug/L		106	80 - 120	4	15
Trichloroethene	14		125	146		ug/L		106	74 - 123	2	16
Trichlorofluoromethane	ND		125	140		ug/L		112	62 - 150	7	20
Vinyl chloride	16		125	137		ug/L		97	65 - 133	3	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-420316/4

Matrix: Water

Analysis Batch: 420316

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			06/19/18 09:55	1
Ethene	ND		7.0	1.5	ug/L			06/19/18 09:55	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Lab Sample ID: LCS 480-420316/5
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	13.1		ug/L		90	79 - 120
Ethene	13.6	12.0		ug/L		88	85 - 120

Lab Sample ID: LCSD 480-420316/6
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.6	13.8		ug/L		95	79 - 120	6	50
Ethene	13.6	12.8		ug/L		94	85 - 120	6	50

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-419956/3
Matrix: Water
Analysis Batch: 419956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite	ND		0.050	0.020	mg/L as N			06/15/18 20:30	1

Lab Sample ID: LCS 480-419956/4
Matrix: Water
Analysis Batch: 419956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite	1.50	1.40		mg/L as N		93	90 - 110

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 480-420962/4
Matrix: Water
Analysis Batch: 420962

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			06/21/18 20:55	1
Sulfate	ND		2.0	0.35	mg/L			06/21/18 20:55	1

Lab Sample ID: LCS 480-420962/3
Matrix: Water
Analysis Batch: 420962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.62		mg/L		101	90 - 110
Sulfate	50.0	51.34		mg/L		103	90 - 110

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-420230/3
Matrix: Water
Analysis Batch: 420230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/18/18 13:00	1

Lab Sample ID: LCS 480-420230/4
Matrix: Water
Analysis Batch: 420230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.88		mg/L		94	90 - 110

Lab Sample ID: 480-137527-2 MS
Matrix: Water
Analysis Batch: 420230

Client Sample ID: ML-7-D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	ND	HF	1.00	0.975		mg/L		97	70 - 130

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-420855/3
Matrix: Water
Analysis Batch: 420855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/21/18 10:44	1

Lab Sample ID: LCS 480-420855/4
Matrix: Water
Analysis Batch: 420855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.20	8.80		mg/L		96	90 - 110

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

GC/MS VOA

Analysis Batch: 421204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	8260C	
480-137527-2	ML-7-D	Total/NA	Water	8260C	
480-137527-3	DUPE	Total/NA	Water	8260C	
MB 480-421204/7	Method Blank	Total/NA	Water	8260C	
LCS 480-421204/5	Lab Control Sample	Total/NA	Water	8260C	
480-137527-2 MS	ML-7-D	Total/NA	Water	8260C	
480-137527-2 MSD	ML-7-D	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 420316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	RSK-175	
480-137527-2	ML-7-D	Total/NA	Water	RSK-175	
MB 480-420316/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-420316/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-420316/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 419956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-2	ML-7-D	Total/NA	Water	353.2	
MB 480-419956/3	Method Blank	Total/NA	Water	353.2	
LCS 480-419956/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 419962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	353.2	

Analysis Batch: 419963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	353.2	
480-137527-2	ML-7-D	Total/NA	Water	353.2	

Analysis Batch: 420230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	SM 3500 FE D	
480-137527-2	ML-7-D	Total/NA	Water	SM 3500 FE D	
MB 480-420230/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-420230/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
480-137527-2 MS	ML-7-D	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 420855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	SM 4500 S2 F	
480-137527-2	ML-7-D	Total/NA	Water	SM 4500 S2 F	
MB 480-420855/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-420855/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

General Chemistry (Continued)

Analysis Batch: 420962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137527-1	ML-7-I	Total/NA	Water	9056A	
480-137527-2	ML-7-D	Total/NA	Water	9056A	
MB 480-420962/4	Method Blank	Total/NA	Water	9056A	
LCS 480-420962/3	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Client Sample ID: ML-7-I

Date Collected: 06/14/18 10:05

Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	421204	06/23/18 15:43	KMN	TAL BUF
Total/NA	Analysis	RSK-175		11	420316	06/19/18 14:31	DSC	TAL BUF
Total/NA	Analysis	353.2		1	419962	06/15/18 19:15	DCB	TAL BUF
Total/NA	Analysis	353.2		1	419963	06/15/18 19:15	DCB	TAL BUF
Total/NA	Analysis	9056A		10	420962	06/21/18 22:57	DMR	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	420230	06/18/18 13:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	420855	06/21/18 10:44	MJB	TAL BUF

Client Sample ID: ML-7-D

Date Collected: 06/14/18 14:05

Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	421204	06/23/18 16:07	KMN	TAL BUF
Total/NA	Analysis	RSK-175		1	420316	06/19/18 12:29	DSC	TAL BUF
Total/NA	Analysis	353.2		1	419963	06/15/18 20:40	DCB	TAL BUF
Total/NA	Analysis	353.2		1	419956	06/15/18 20:40	DCB	TAL BUF
Total/NA	Analysis	9056A		20	420962	06/21/18 23:05	DMR	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	420230	06/18/18 13:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	420855	06/21/18 10:44	MJB	TAL BUF

Client Sample ID: DUPE

Date Collected: 06/14/18 00:00

Date Received: 06/15/18 10:45

Lab Sample ID: 480-137527-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	421204	06/23/18 16:30	KMN	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137527-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9056A		Water	Chloride
9056A		Water	Sulfate
SM 3500 FE D		Water	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-7-I	480-137527-1	98	101	102	97
ML-7-D	480-137527-2	102	104	98	97
DUPE	480-137527-3	107	105	100	98
	MB 480-421204/7	106	105	104	101
	LCS 480-421204/5	101	98	101	100
ML-7-D MS	480-137527-2 MS	105	105	103	101
ML-7-D MSD	480-137527-2 MSD	102	105	103	98

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2644.D

Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.6	102	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.7	95	76-120	
1,1,2-Trichloroethane	25.0	24.3	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5	94	61-148	
1,1-Dichloroethane	25.0	24.5	98	77-120	
1,1-Dichloroethene	25.0	25.6	103	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.2	97	56-134	
1,2-Dichlorobenzene	25.0	24.5	98	80-124	
1,2-Dichloroethane	25.0	23.9	95	75-120	
1,2-Dichloropropane	25.0	23.9	96	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	24.9	99	80-120	
2-Butanone (MEK)	125	118	94	57-140	
2-Hexanone	125	111	88	65-127	
4-Methyl-2-pentanone (MIBK)	125	109	87	71-125	
Acetone	125	116	93	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	25.5	102	80-122	
Bromoform	25.0	25.9	104	61-132	
Bromomethane	25.0	22.3	89	55-144	
Carbon disulfide	25.0	24.2	97	59-134	
Carbon tetrachloride	25.0	28.3	113	72-134	
Chlorobenzene	25.0	25.1	100	80-120	
Dibromochloromethane	25.0	26.9	108	75-125	
Chloroethane	25.0	22.9	92	69-136	
Chloroform	25.0	24.2	97	73-127	
Chloromethane	25.0	20.9	84	68-124	
cis-1,2-Dichloroethene	25.0	25.3	101	74-124	
cis-1,3-Dichloropropene	25.0	24.9	99	74-124	
Cyclohexane	25.0	27.7	111	59-135	
Dichlorodifluoromethane	25.0	20.4	82	59-135	
Ethylbenzene	25.0	25.9	104	77-123	
1,2-Dibromoethane	25.0	23.2	93	77-120	
Isopropylbenzene	25.0	26.5	106	77-122	
Methyl acetate	50.0	43.1	86	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	27.4	110	68-134	
Methylene Chloride	25.0	22.2	89	75-124	
Styrene	25.0	25.1	100	80-120	
Tetrachloroethene	25.0	25.7	103	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2644.D

Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.3	101	80-122	
trans-1,2-Dichloroethene	25.0	25.3	101	73-127	
trans-1,3-Dichloropropene	25.0	25.3	101	80-120	
Trichloroethene	25.0	25.3	101	74-123	
Trichlorofluoromethane	25.0	22.8	91	62-150	
Vinyl chloride	25.0	22.4	90	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S2665.D

Lab ID: 480-137527-2 MS

Client ID: ML-7-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	66	201	108	73-126	
1,1,2,2-Tetrachloroethane	125	ND	127	102	76-120	
1,1,2-Trichloroethane	125	ND	131	105	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	6.4	156	120	61-148	
1,1-Dichloroethane	125	170	290	99	77-120	
1,1-Dichloroethene	125	ND	147	117	66-127	
1,2,4-Trichlorobenzene	125	ND	131	105	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	133	106	56-134	
1,2-Dichlorobenzene	125	ND	124	99	80-124	
1,2-Dichloroethane	125	ND	127	101	75-120	
1,2-Dichloropropane	125	ND	128	102	76-120	
1,3-Dichlorobenzene	125	ND	125	100	77-120	
1,4-Dichlorobenzene	125	ND	129	103	78-124	
2-Butanone (MEK)	625	12 J	667	105	57-140	
2-Hexanone	625	ND	585	94	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	590	94	71-125	
Acetone	625	26 J	650	100	56-142	
Benzene	125	7.7	138	104	71-124	
Bromodichloromethane	125	ND	142	114	80-122	
Bromoform	125	ND	141	113	61-132	
Bromomethane	125	ND	118	94	55-144	
Carbon disulfide	125	ND	129	103	59-134	
Carbon tetrachloride	125	ND	149	119	72-134	
Chlorobenzene	125	ND	129	104	80-120	
Dibromochloromethane	125	ND	140	112	75-125	
Chloroethane	125	27	147	96	69-136	
Chloroform	125	ND	127	102	73-127	
Chloromethane	125	ND	106	85	68-124	
cis-1,2-Dichloroethene	125	58	187	103	74-124	
cis-1,3-Dichloropropene	125	ND	134	107	74-124	
Cyclohexane	125	ND	145	116	59-135	
Dichlorodifluoromethane	125	ND	106	85	59-135	
Ethylbenzene	125	ND	134	108	77-123	
1,2-Dibromoethane	125	ND	125	100	77-120	
Isopropylbenzene	125	ND	132	106	77-122	
Methyl acetate	250	ND	240	96	74-133	
Methyl tert-butyl ether	125	1.7 J	132	104	77-120	
Methylcyclohexane	125	ND	147	118	68-134	
Methylene Chloride	125	ND	119	95	75-124	
Styrene	125	ND	131	104	80-120	
Tetrachloroethene	125	ND	130	104	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2665.D

Lab ID: 480-137527-2 MS Client ID: ML-7-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	ND	133	106	80-122	
trans-1,2-Dichloroethene	125	ND	138	110	73-127	
trans-1,3-Dichloropropene	125	ND	127	102	80-120	
Trichloroethene	125	14	142	103	74-123	
Trichlorofluoromethane	125	ND	130	104	62-150	
Vinyl chloride	125	16	133	94	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S2666.D

Lab ID: 480-137527-2 MSD

Client ID: ML-7-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	125	200	107	1	15	73-126	
1,1,2,2-Tetrachloroethane	125	132	105	3	15	76-120	
1,1,2-Trichloroethane	125	125	100	5	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	136	103	14	20	61-148	
1,1-Dichloroethane	125	292	100	1	20	77-120	
1,1-Dichloroethene	125	139	111	5	16	66-127	
1,2,4-Trichlorobenzene	125	131	105	0	20	79-122	
1,2-Dibromo-3-Chloropropane	125	125	100	6	15	56-134	
1,2-Dichlorobenzene	125	129	103	4	20	80-124	
1,2-Dichloroethane	125	128	103	1	20	75-120	
1,2-Dichloropropane	125	127	101	1	20	76-120	
1,3-Dichlorobenzene	125	129	103	3	20	77-120	
1,4-Dichlorobenzene	125	128	103	1	20	78-124	
2-Butanone (MEK)	625	641	101	4	20	57-140	
2-Hexanone	625	569	91	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	583	93	1	35	71-125	
Acetone	625	664	102	2	15	56-142	
Benzene	125	141	106	2	13	71-124	
Bromodichloromethane	125	140	112	1	15	80-122	
Bromoform	125	141	113	0	15	61-132	
Bromomethane	125	118	94	0	15	55-144	
Carbon disulfide	125	131	105	1	15	59-134	
Carbon tetrachloride	125	145	116	3	15	72-134	
Chlorobenzene	125	134	107	4	25	80-120	
Dibromochloromethane	125	145	116	3	15	75-125	
Chloroethane	125	150	99	2	15	69-136	
Chloroform	125	129	103	2	20	73-127	
Chloromethane	125	108	86	1	15	68-124	
cis-1,2-Dichloroethene	125	190	106	1	15	74-124	
cis-1,3-Dichloropropene	125	134	107	0	15	74-124	
Cyclohexane	125	137	109	6	20	59-135	
Dichlorodifluoromethane	125	107	86	1	20	59-135	
Ethylbenzene	125	135	108	1	15	77-123	
1,2-Dibromoethane	125	128	102	3	15	77-120	
Isopropylbenzene	125	138	111	4	20	77-122	
Methyl acetate	250	240	96	0	20	74-133	
Methyl tert-butyl ether	125	129	102	2	37	77-120	
Methylcyclohexane	125	148	118	0	20	68-134	
Methylene Chloride	125	120	96	1	15	75-124	
Styrene	125	134	108	3	20	80-120	
Tetrachloroethene	125	132	106	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S2666.D
 Lab ID: 480-137527-2 MSD Client ID: ML-7-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	125	134	107	1	15	80-122	
trans-1,2-Dichloroethene	125	141	113	2	20	73-127	
trans-1,3-Dichloropropene	125	133	106	4	15	80-120	
Trichloroethene	125	146	106	2	16	74-123	
Trichlorofluoromethane	125	140	112	7	20	62-150	
Vinyl chloride	125	137	97	3	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab File ID: S2646.D Lab Sample ID: MB 480-421204/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 06/23/2018 11:54
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421204/5	S2644.D	06/23/2018 11:07
ML-7-I	480-137527-1	S2655.D	06/23/2018 15:43
ML-7-D	480-137527-2	S2656.D	06/23/2018 16:07
DUPE	480-137527-3	S2657.D	06/23/2018 16:30
ML-7-D MS	480-137527-2 MS	S2665.D	06/23/2018 19:36
ML-7-D MSD	480-137527-2 MSD	S2666.D	06/23/2018 19:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab File ID: S2504.D BFB Injection Date: 06/20/2018
 Instrument ID: HP5973S BFB Injection Time: 12:54
 Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	6.2	(7.7) 1
176	95.0 - 101.0 % of mass 174	77.9	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.6	(5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab File ID: S2641.D BFB Injection Date: 06/23/2018
 Instrument ID: HP5973S BFB Injection Time: 09:52
 Analysis Batch No.: 421204

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.4	
175	5.0 - 9.0 % of mass 174	5.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	76.8	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421204/3	S2642.D	06/23/2018	10:20
	LCS 480-421204/5	S2644.D	06/23/2018	11:07
	MB 480-421204/7	S2646.D	06/23/2018	11:54
ML-7-I	480-137527-1	S2655.D	06/23/2018	15:43
ML-7-D	480-137527-2	S2656.D	06/23/2018	16:07
DUPE	480-137527-3	S2657.D	06/23/2018	16:30
ML-7-D MS	480-137527-2 MS	S2665.D	06/23/2018	19:36
ML-7-D MSD	480-137527-2 MSD	S2666.D	06/23/2018	19:59

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N
 Calibration ID: 34116

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT	394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT	98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-421204/3	200347	5.51	390439	8.51	349453	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Sample No.: CCVIS 480-421204/3 Date Analyzed: 06/23/2018 10:20
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2642.D Heated Purge: (Y/N) N
 Calibration ID: 34119

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	200347	5.51	390439	8.51	349453	10.89	
UPPER LIMIT	400694	6.01	780878	9.01	698906	11.39	
LOWER LIMIT	100174	5.01	195220	8.01	174727	10.39	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421204/5	195959	5.51	388813	8.51	353233	10.89	
MB 480-421204/7	349725	5.51	714901	8.52	671304	10.89	
480-137527-1	ML-7-I	189817	5.51	366885	8.51	336223	10.89
480-137527-2	ML-7-D	186617	5.51	383275	8.51	331313	10.89
480-137527-3	DUPE	176854	5.51	369485	8.51	334952	10.89
480-137527-2 MS	ML-7-D MS	179420	5.51	369738	8.51	351550	10.89
480-137527-2 MSD	ML-7-D MSD	183304	5.51	373559	8.51	351188	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: S2655.D
 Analysis Method: 8260C Date Collected: 06/14/2018 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	41		20	6.2
75-34-3	1,1-Dichloroethane	460		20	7.6
75-35-4	1,1-Dichloroethene	ND		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	23		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
124-48-1	Dibromochloromethane	ND		20	6.4
75-00-3	Chloroethane	50		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	560		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
75-71-8	Dichlorodifluoromethane	22		20	14
100-41-4	Ethylbenzene	ND		20	15
106-93-4	1,2-Dibromoethane	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: S2655.D
 Analysis Method: 8260C Date Collected: 06/14/2018 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	26
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	90		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	ND		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	360		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: S2655.D
 Analysis Method: 8260C Date Collected: 06/14/2018 10:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D
 Lims ID: 480-137527-G-1
 Client ID: ML-7-I
 Sample Type: Client
 Inject. Date: 23-Jun-2018 15:43:30 ALS Bottle#: 16 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 20.0000
 Sample Info: 480-137527-g-1
 Misc. Info.: 480-0072571-021
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 08:54:33 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk

Date: 24-Jun-2018 08:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	189817	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	366885	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	336223	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	59	221551	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	150813	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	94	915336	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	266961	24.3	
10 Dichlorodifluoromethane	85	1.251	1.282	-0.031	0	10053	1.10	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62	1.556	1.543	0.013	97	230446	17.8	
14 Bromomethane	94		1.860				ND	
15 Chloroethane	64	1.975	1.963	0.012	52	19604	2.51	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.718	2.693	0.025	16	12556	2.04	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.845				ND	
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.247				ND	
32 Methyl tert-butyl ether	73	3.448	3.454	-0.006	34	4293	0.1366	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	64	5336	0.5561	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	96	466446	23.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	311241	28.2	
43 2-Butanone (MEK)	43		4.494				ND	
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	41	5583	0.4248	
52 Cyclohexane	56		4.883				ND	
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	47	45930	1.14	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95	5.844	5.850	-0.006	43	4337	0.4175	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.966				ND	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92	7.086	7.085	0.001	82	109994	4.51	
77 trans-1,3-Dichloropropene	75		7.377				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.961				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	1	4449	0.1012	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106	9.178	9.178	0.000	8	3271	0.1927	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.470				ND	
94 Isopropylbenzene	105		9.561				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.821				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		0.1927	

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Worklist Smp#: 21

Client ID: ML-7-I

Purge Vol: 5.000 mL

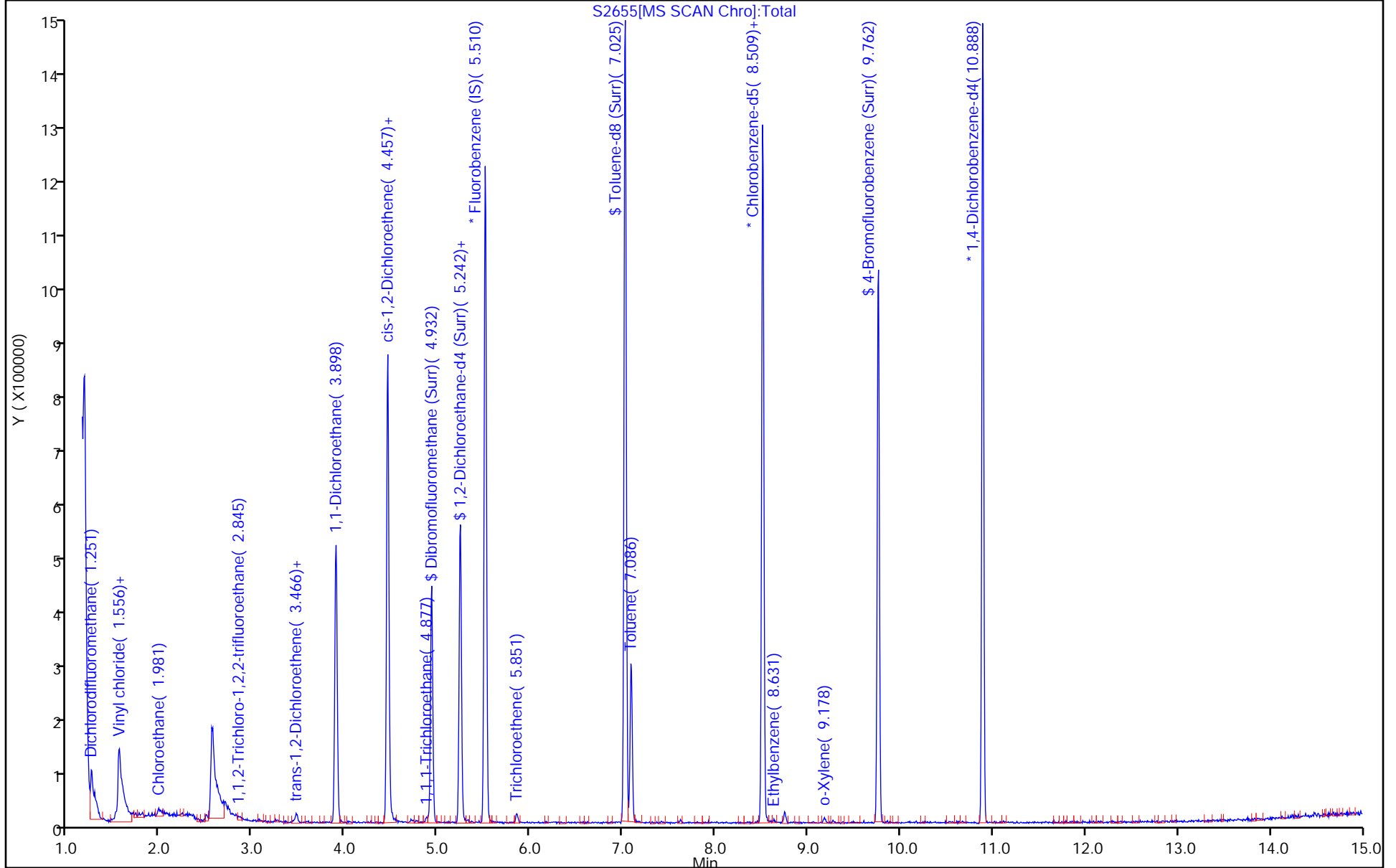
Dil. Factor: 20.0000

ALS Bottle#: 16

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

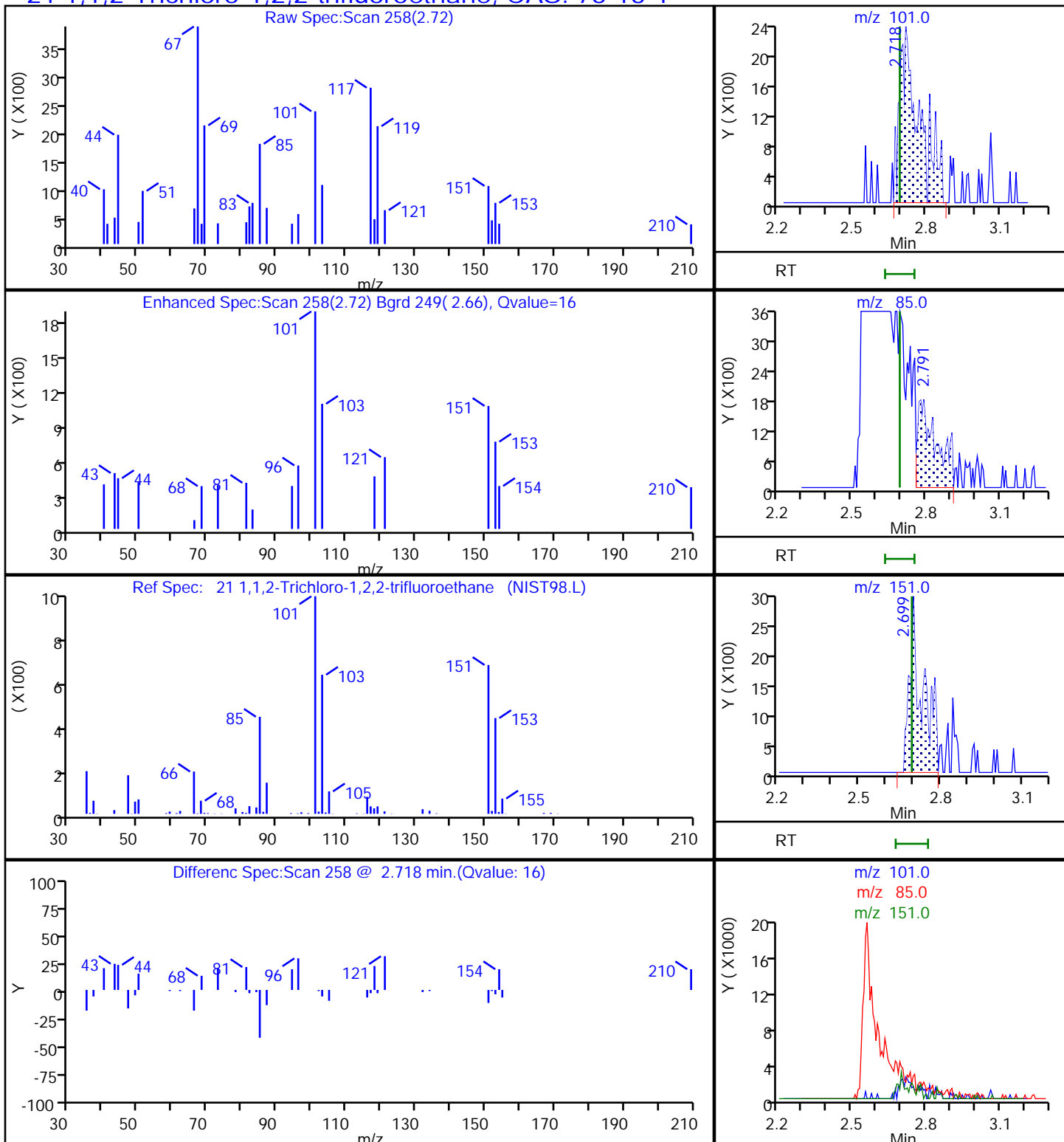
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

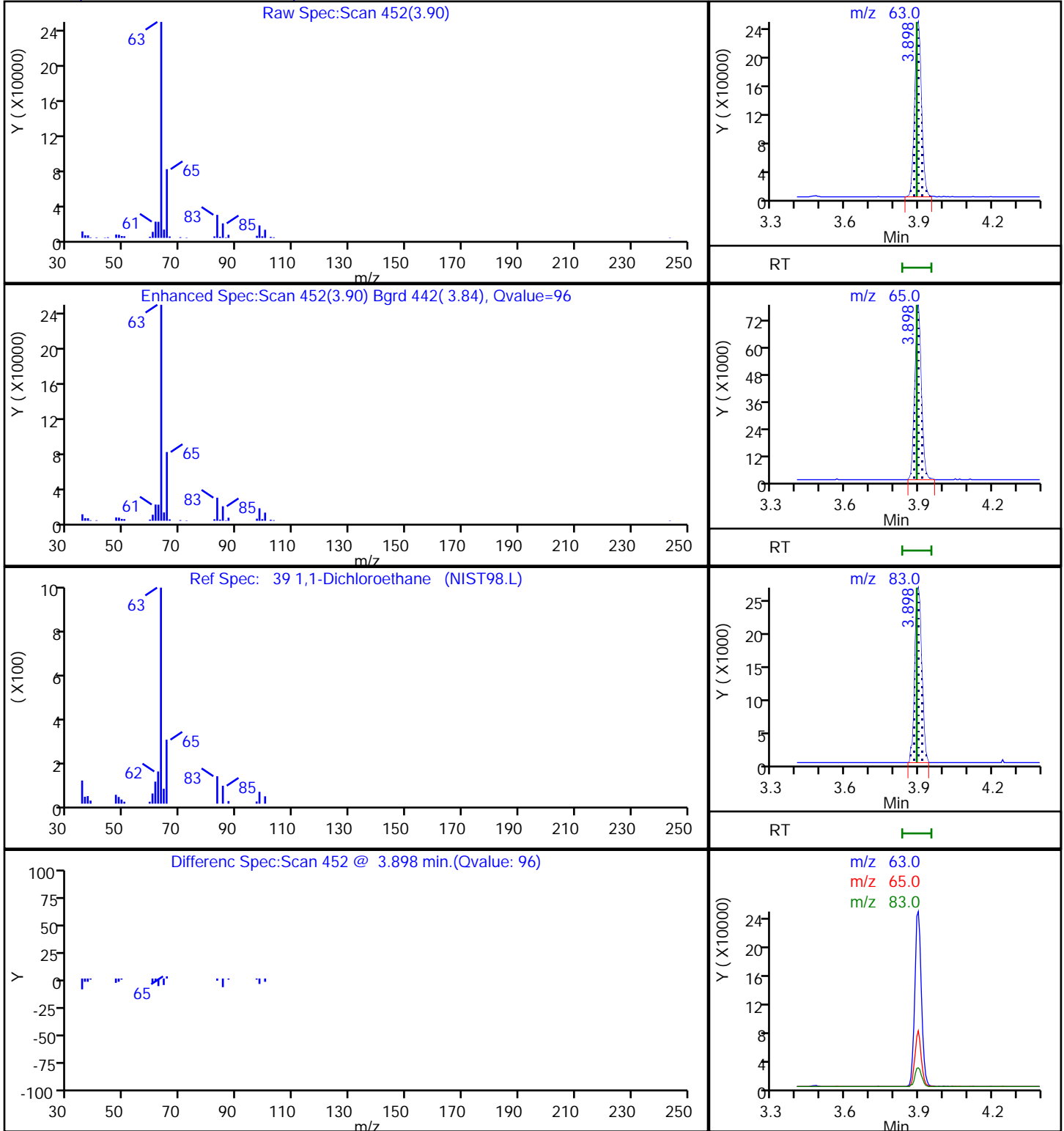
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

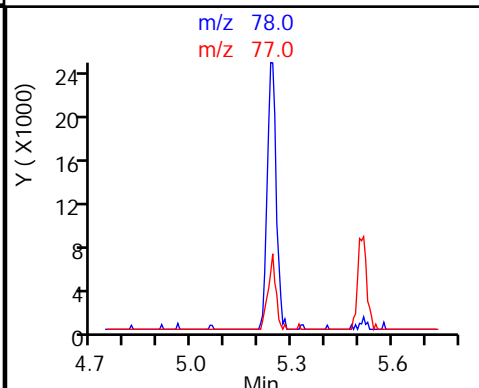
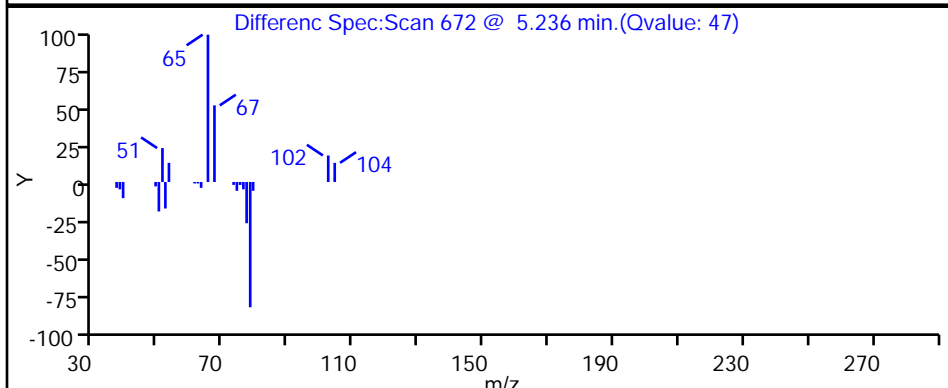
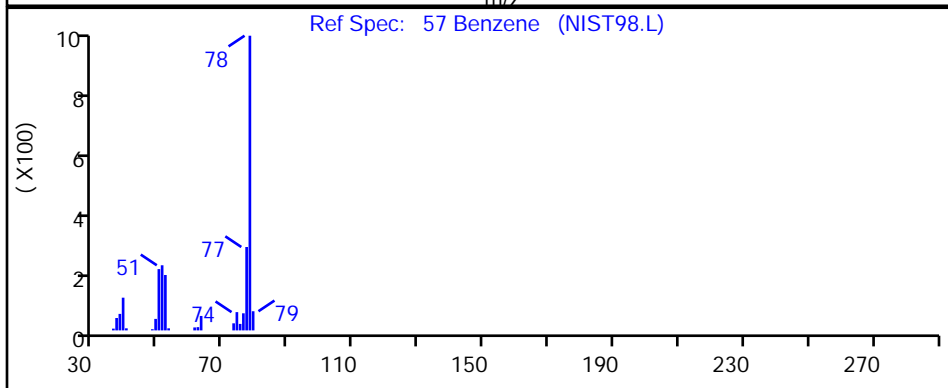
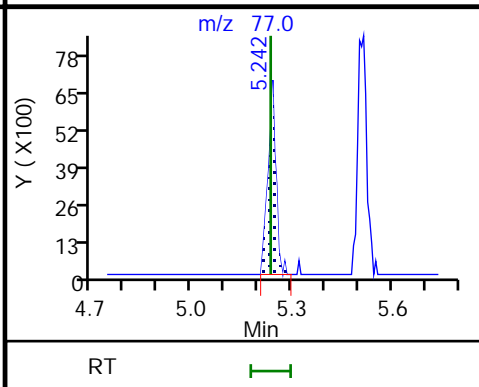
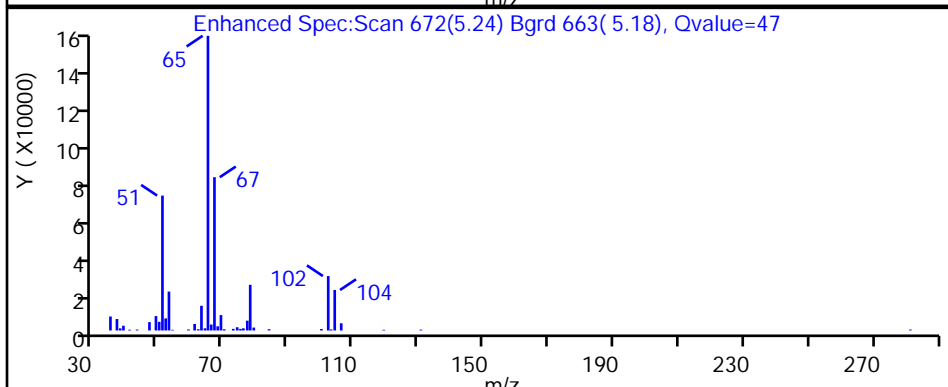
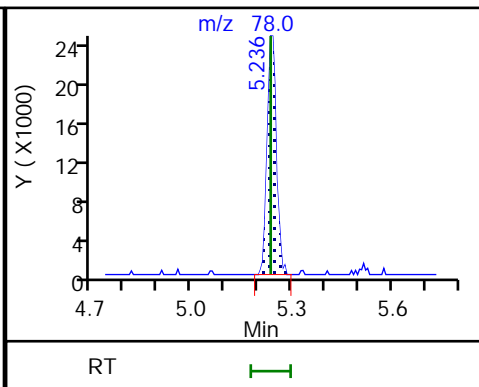
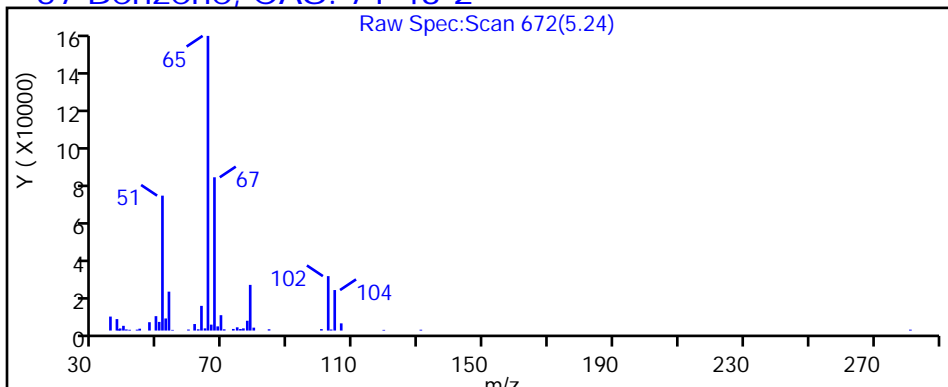
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

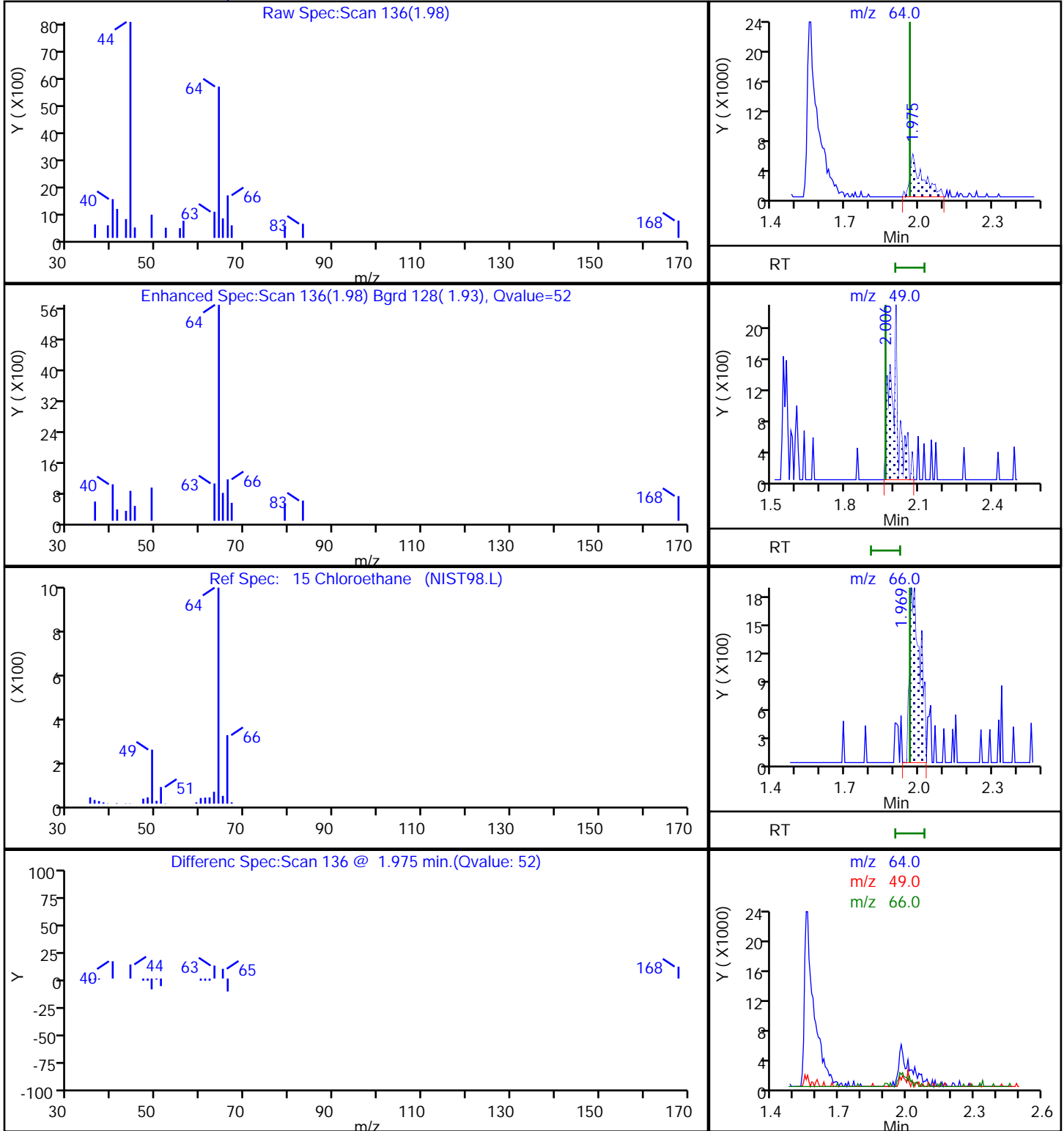
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

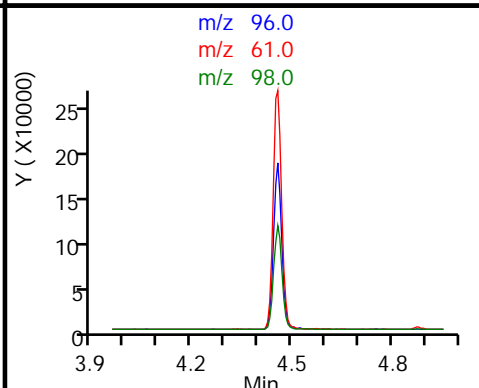
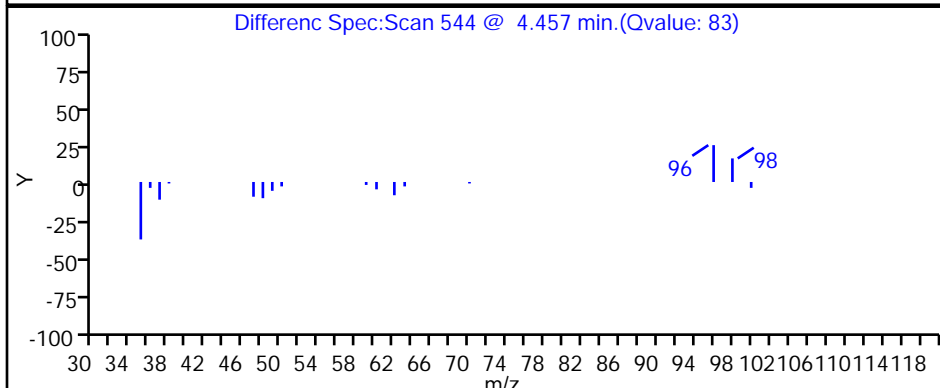
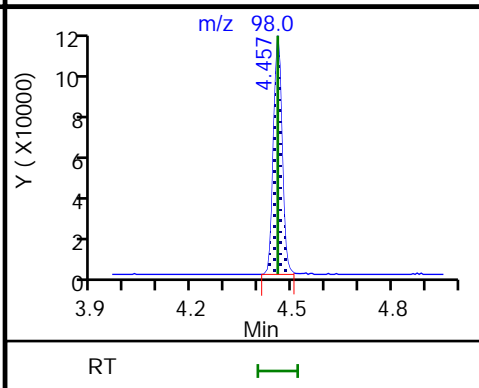
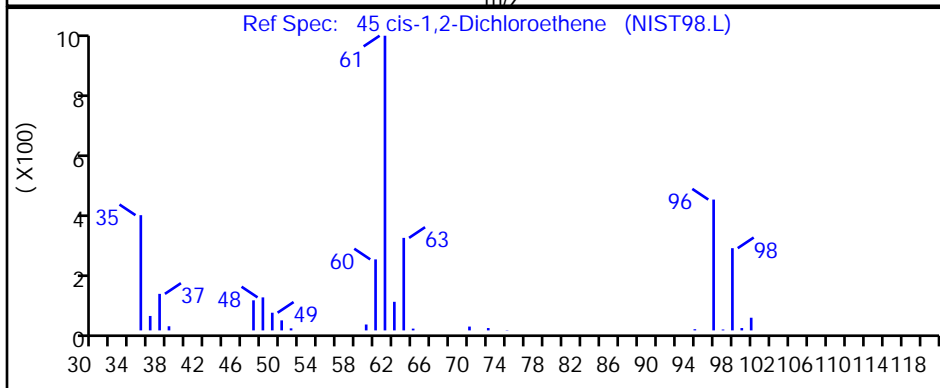
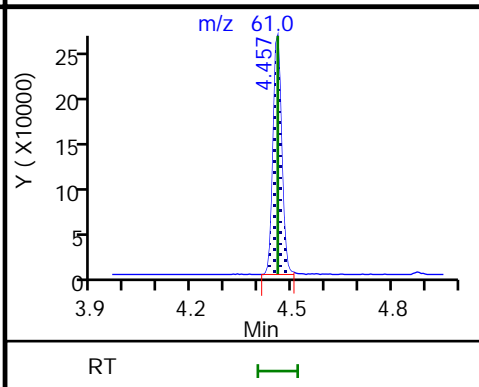
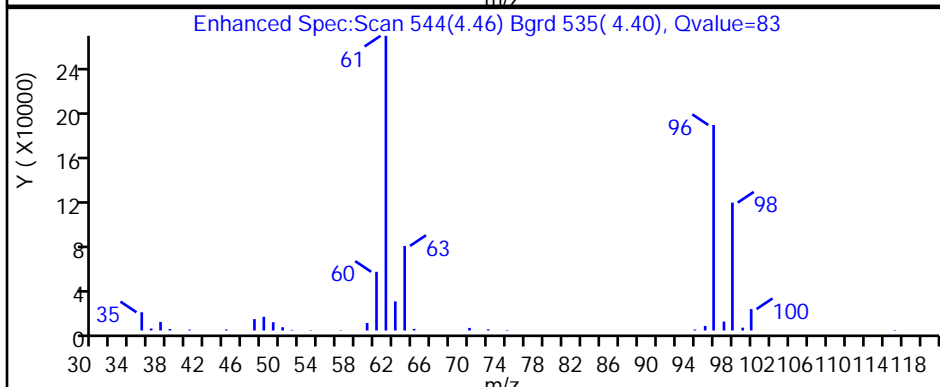
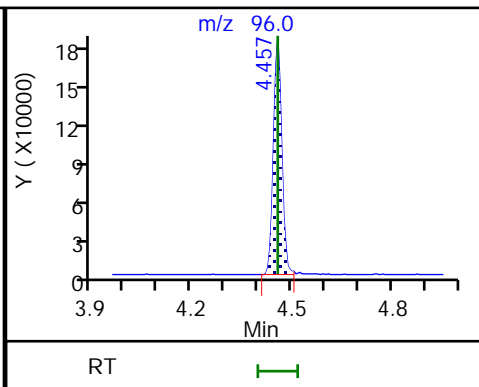
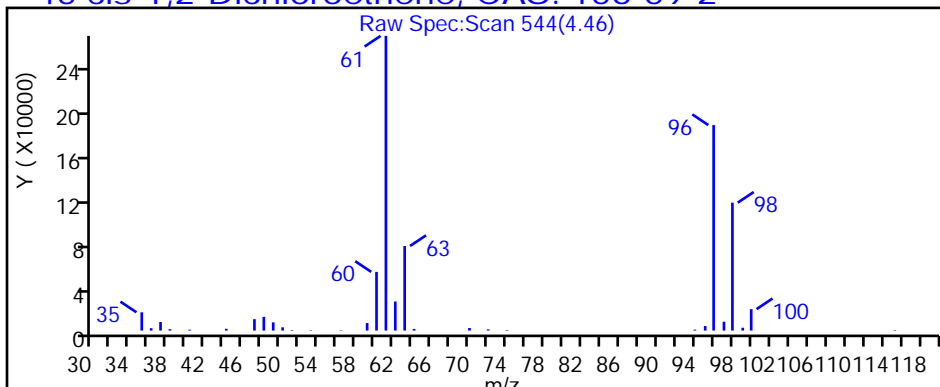
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

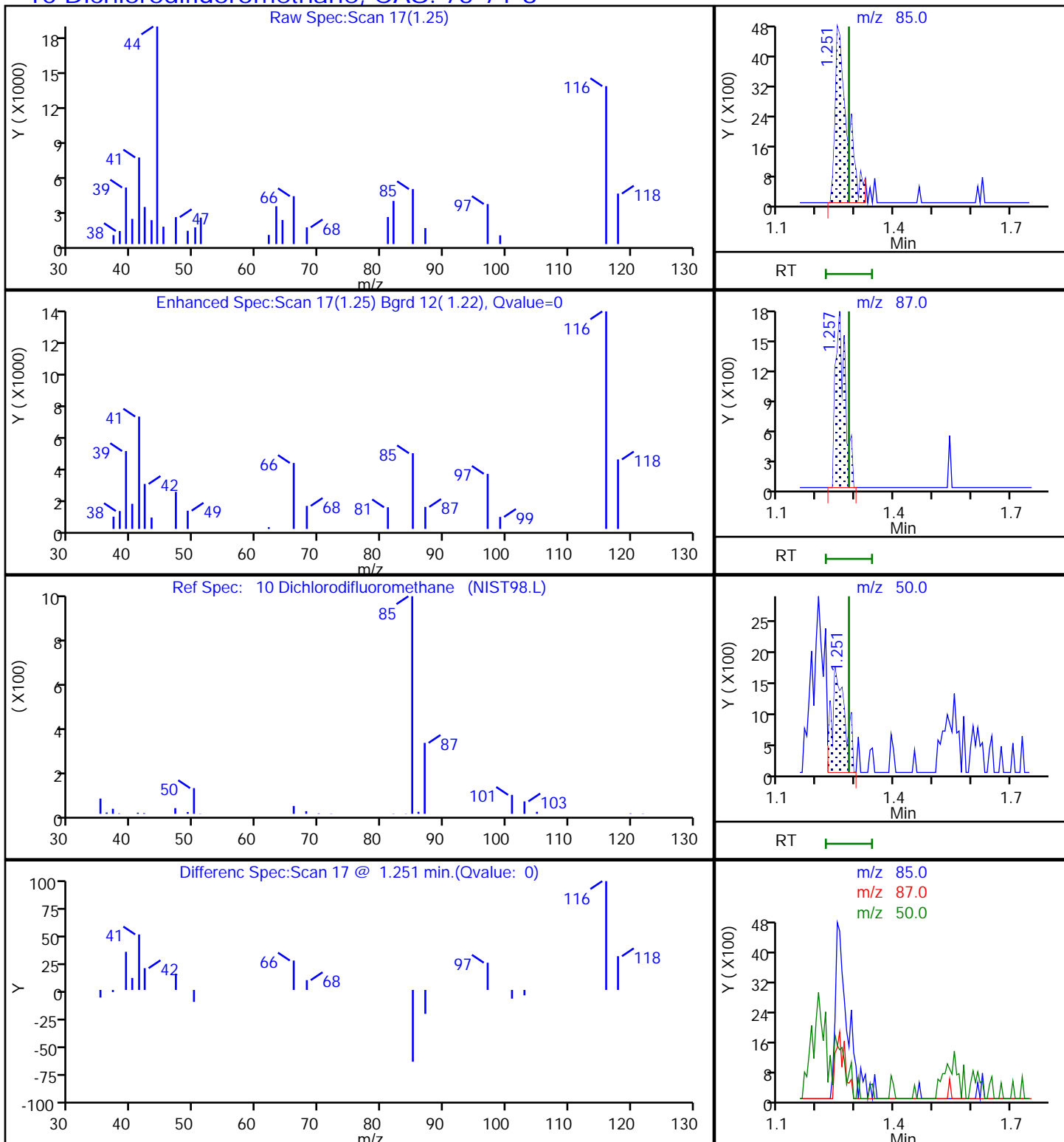
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

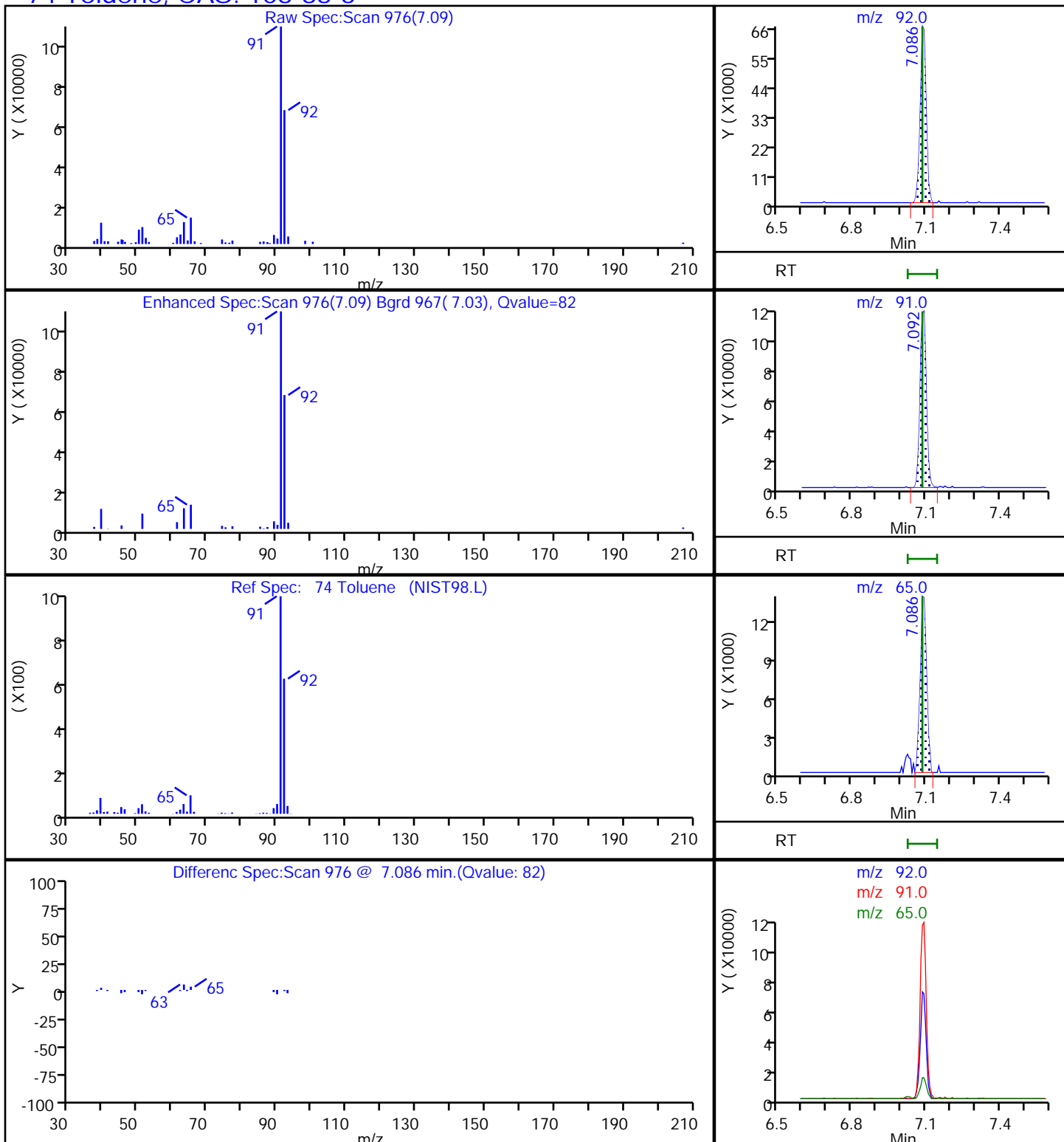
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2655.D

Injection Date: 23-Jun-2018 15:43:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-1

Lab Sample ID: 480-137527-1

Client ID: ML-7-I

Operator ID: RB

ALS Bottle#: 16

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

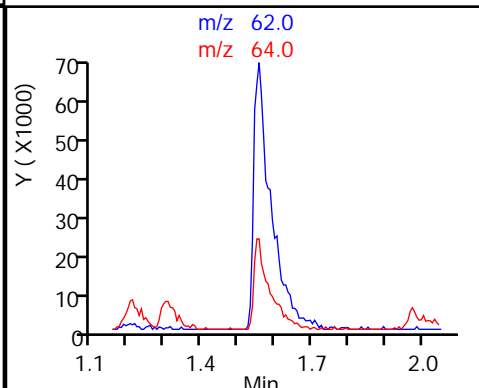
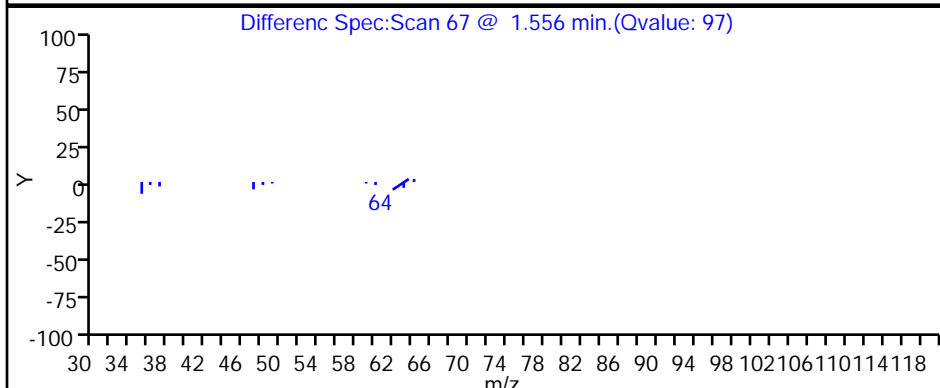
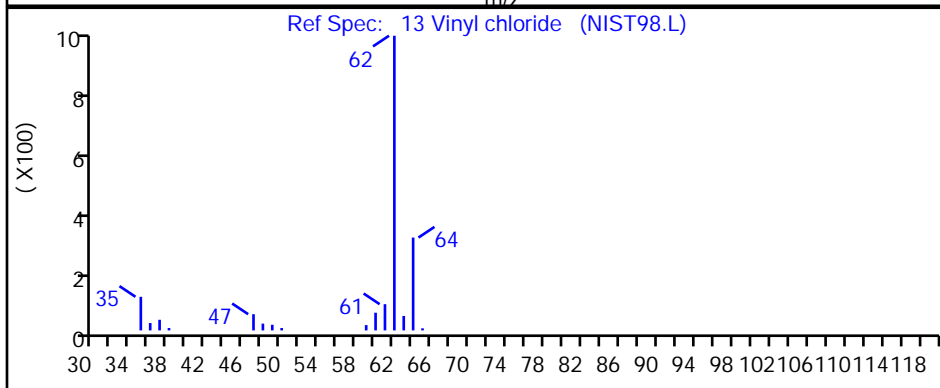
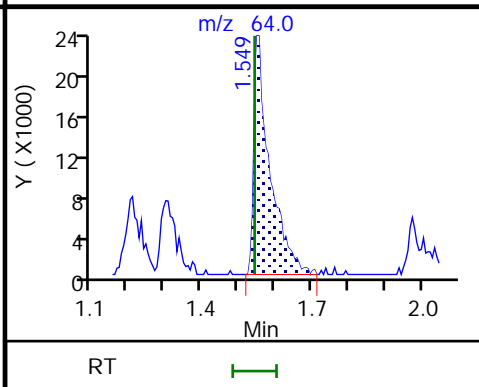
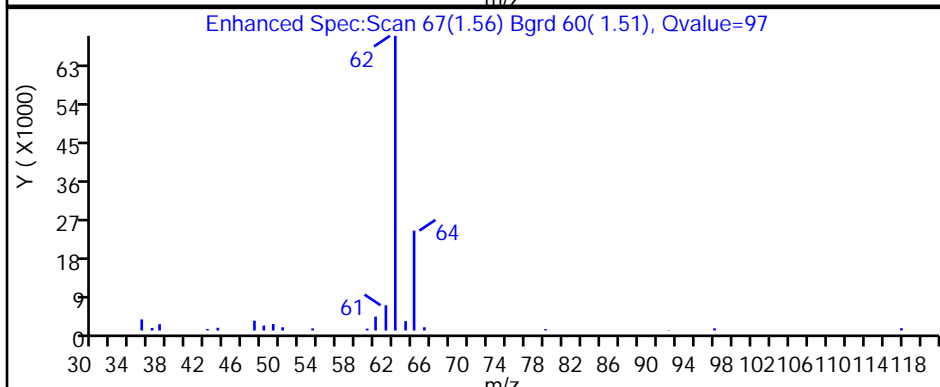
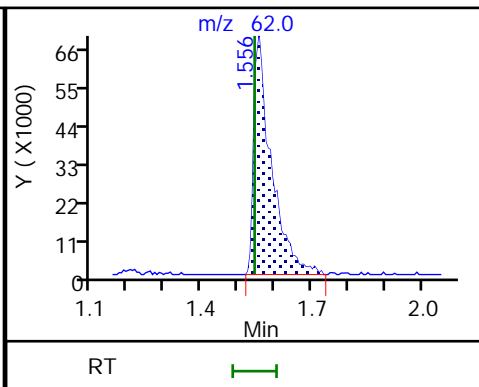
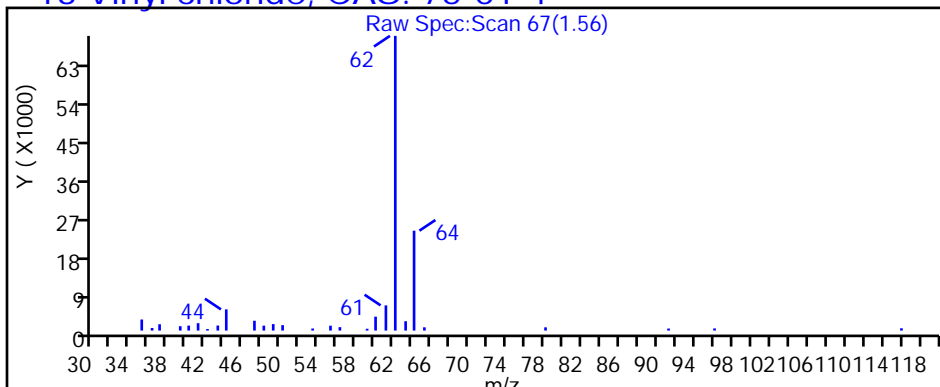
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: S2656.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	66		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4		5.0	1.6
75-34-3	1,1-Dichloroethane	170		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	12	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	26	J	50	15
71-43-2	Benzene	7.7		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	27		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	58		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: S2656.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	1.7	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	14		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	16		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: S2656.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 54

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
109-99-9	Furan, tetrahydro-	4.71	54	T J N	90%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D
 Lims ID: 480-137527-G-2
 Client ID: ML-7-D
 Sample Type: Client
 Inject. Date: 23-Jun-2018 16:07:30 ALS Bottle#: 17 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137527-g-2
 Misc. Info.: 480-0072571-022
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:04:16 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk

Date: 24-Jun-2018 09:04:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	186617	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	383275	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	95	331313	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	62	228337	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	151549	25.9	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	914555	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	277975	24.2	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62	1.555	1.543	0.012	65	40623	3.20	
14 Bromomethane	94		1.860				ND	
15 Chloroethane	64	1.981	1.963	0.018	62	41140	5.35	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.693	0.006	8	6755	1.28	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43	2.851	2.851	0.006	77	18657	5.20	a
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.247				ND	
32 Methyl tert-butyl ether	73	3.460	3.454	0.006	82	10439	0.3379	
34 trans-1,2-Dichloroethene	96		3.466				ND	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	97	664104	33.4	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	125586	11.6	
43 2-Butanone (MEK)	43	4.506	4.494	0.012	53	13665	2.48	
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	94	169697	13.1	
52 Cyclohexane	56		4.883				ND	
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	47	61282	1.55	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95	5.844	5.850	-0.006	87	27930	2.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.966				ND	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92		7.085				ND	
77 trans-1,3-Dichloropropene	75		7.377				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.961				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106	9.178	9.178	0.000	8	2869	0.1618	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.470				ND	
94 Isopropylbenzene	105		9.561				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.821				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		0.1618	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D
 Lims ID: 480-137527-G-2
 Client ID: ML-7-D
 Sample Type: Client
 Inject. Date: 23-Jun-2018 16:07:30 ALS Bottle#: 17 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137527-g-2
 Misc. Info.: 480-0072571-022
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:04:16 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027
 First Level Reviewer: nowakk Date: 24-Jun-2018 09:04:16

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
4.713	873063	10.7	153	90	109006	C4H8O	72	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.510	2039409	25.0

QC Flag Legend

Processing Flags

Reagents:

S_8260_IS_00292 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00271 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Worklist Smp#: 22

Client ID: ML-7-D

Purge Vol: 5.000 mL

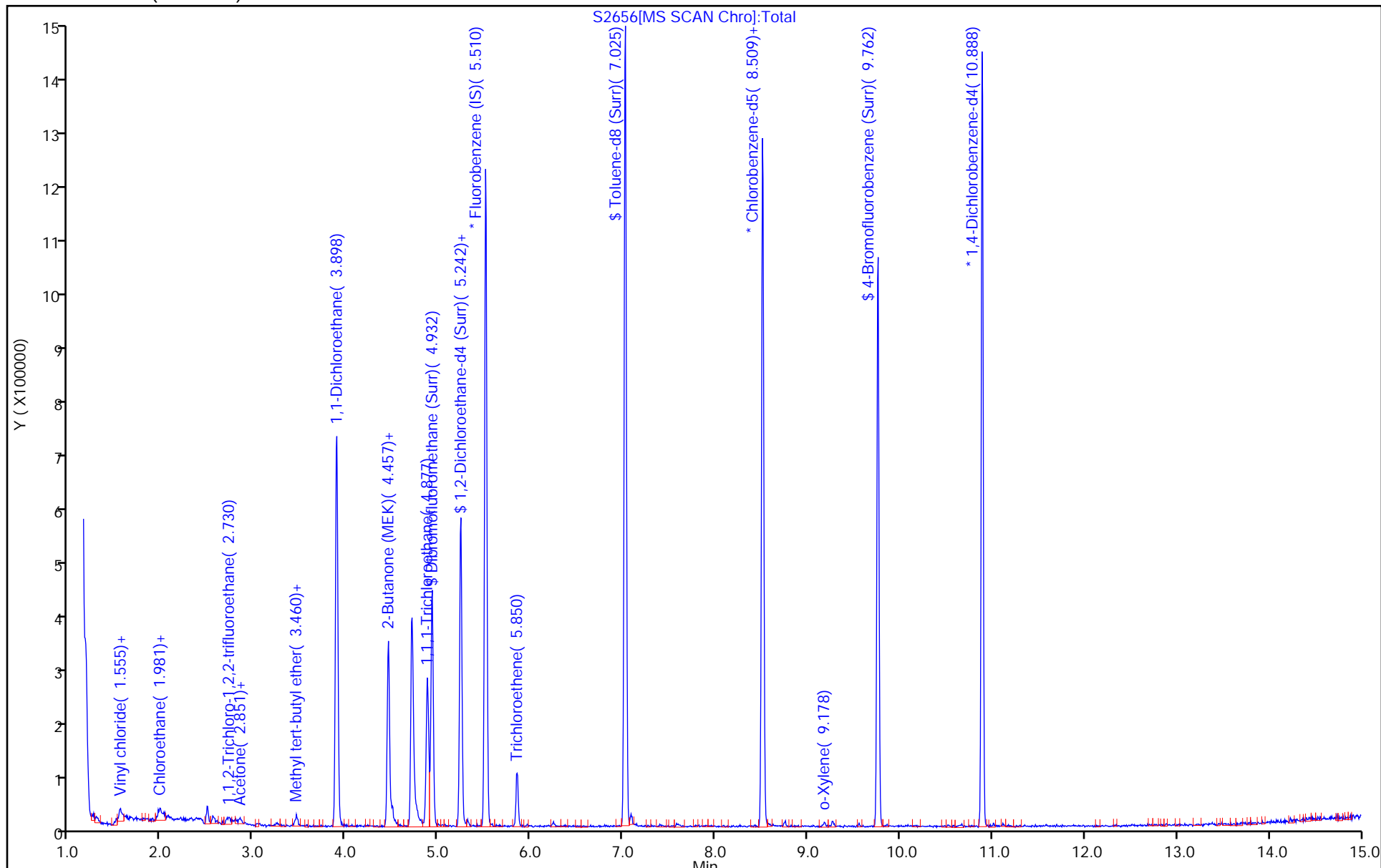
Dil. Factor: 5.0000

ALS Bottle#: 17

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

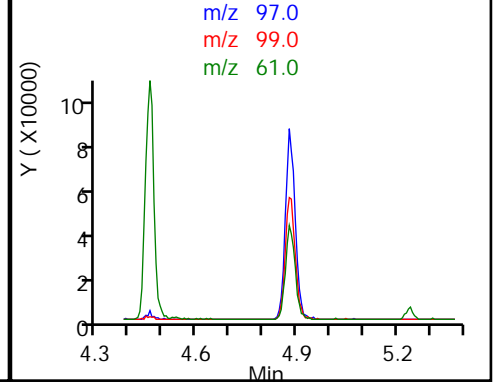
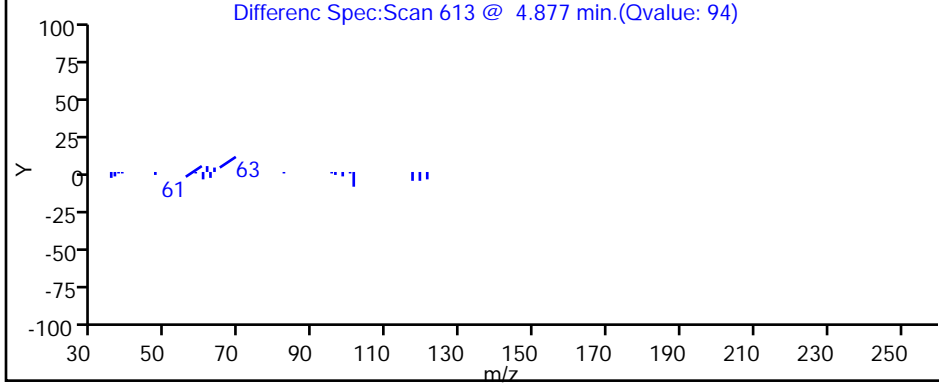
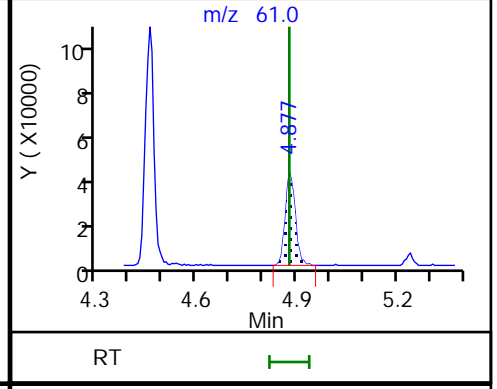
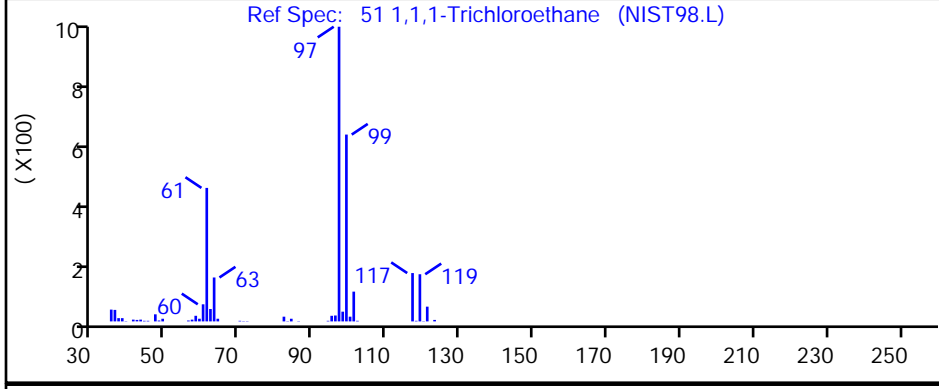
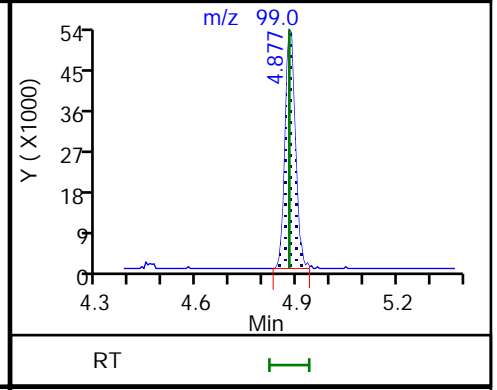
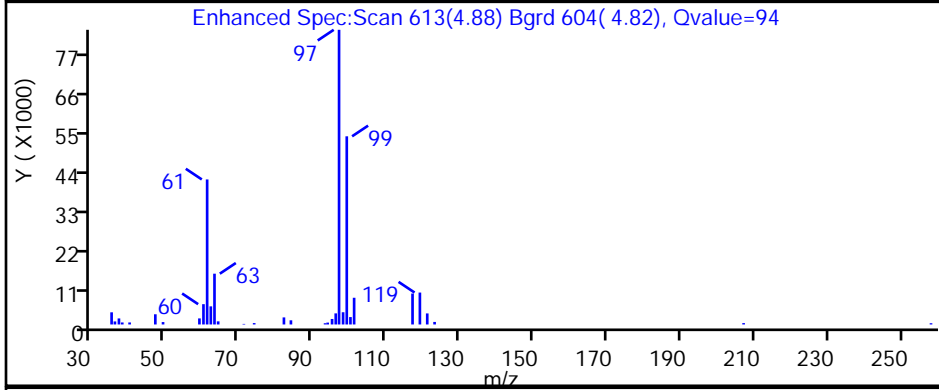
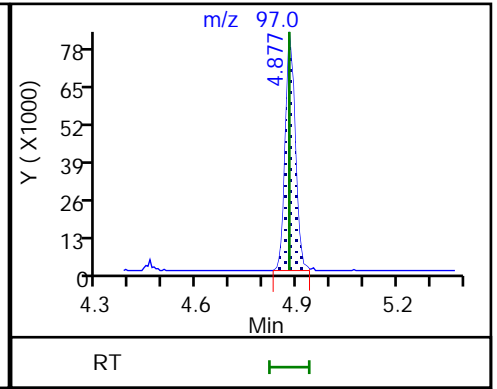
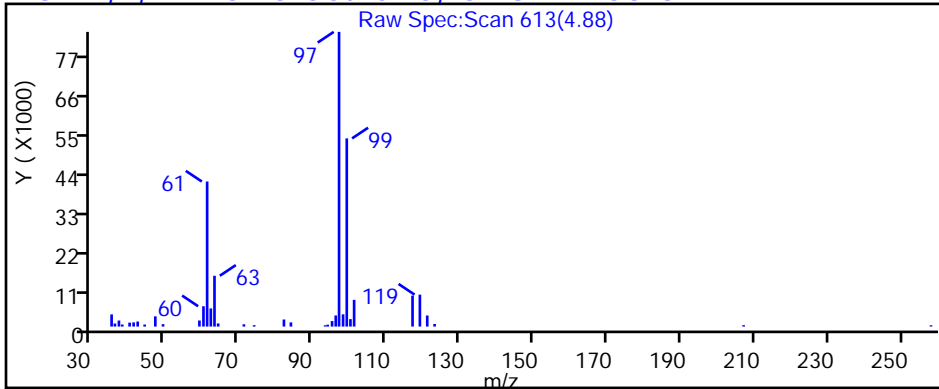
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

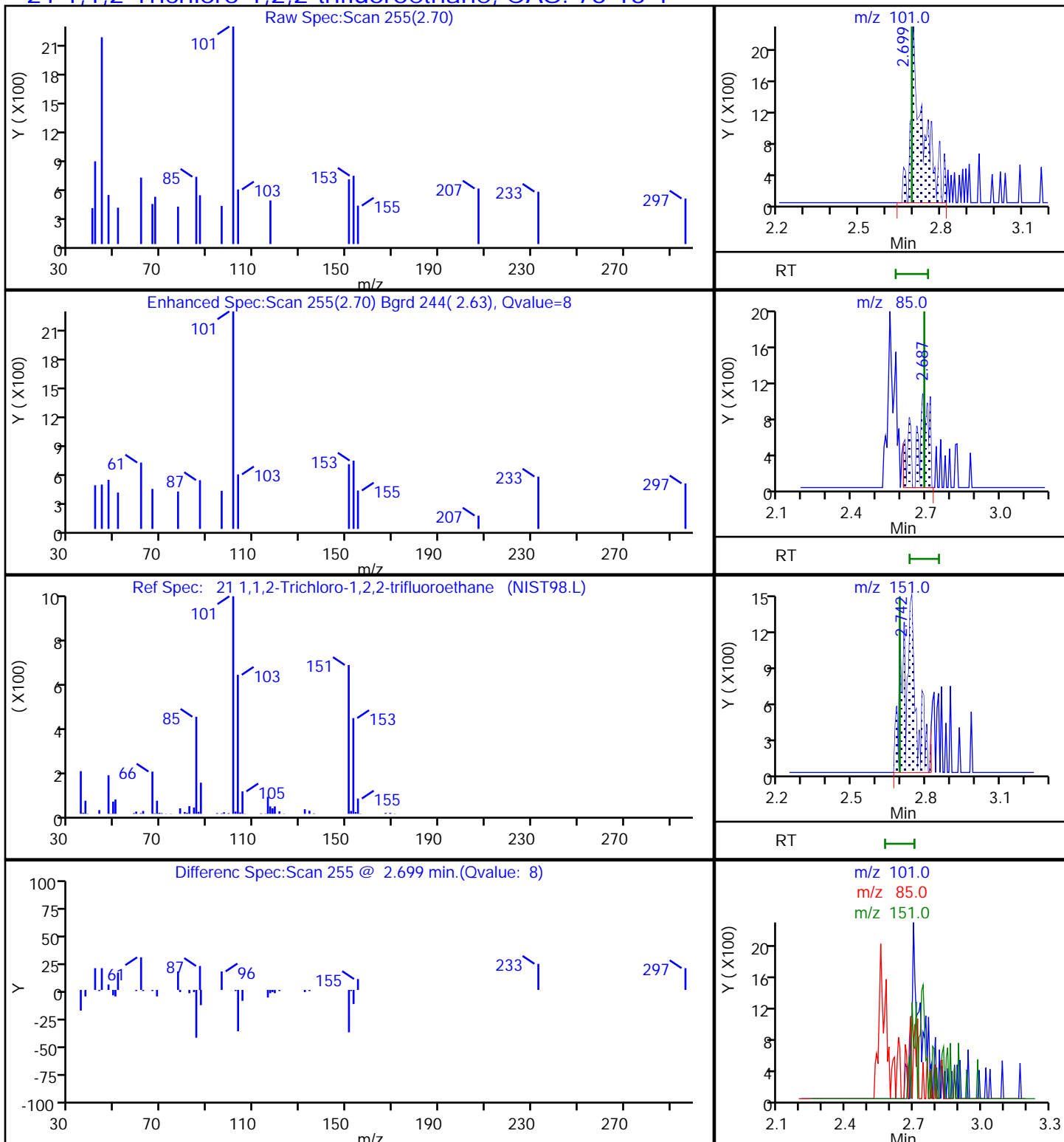
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

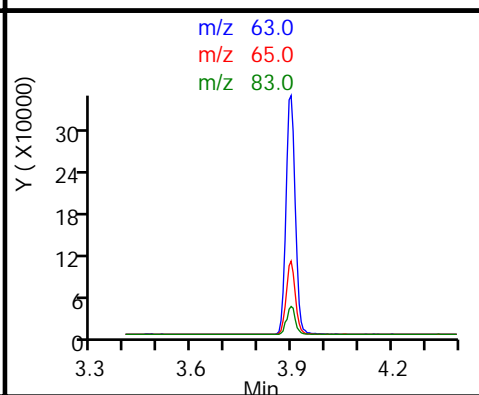
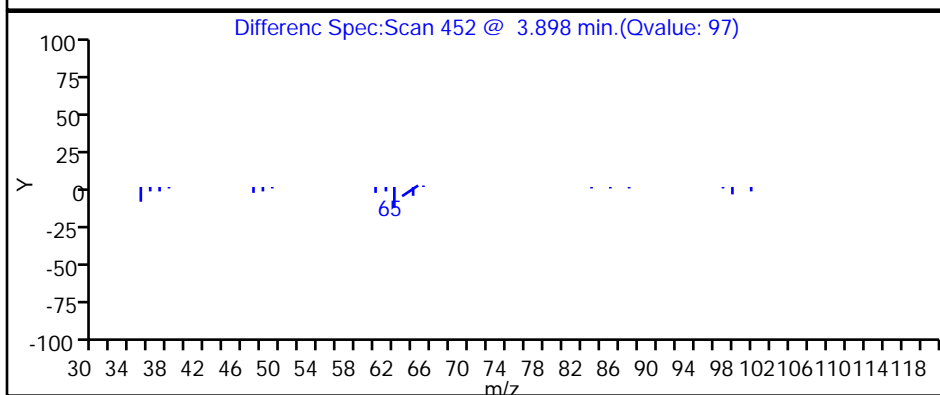
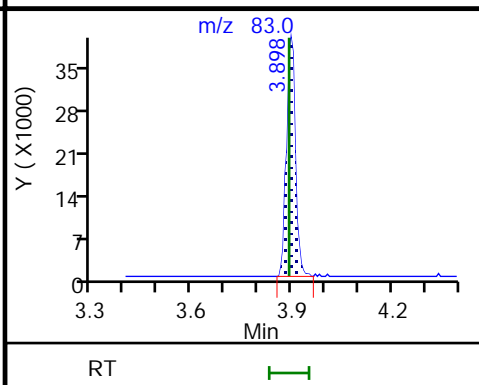
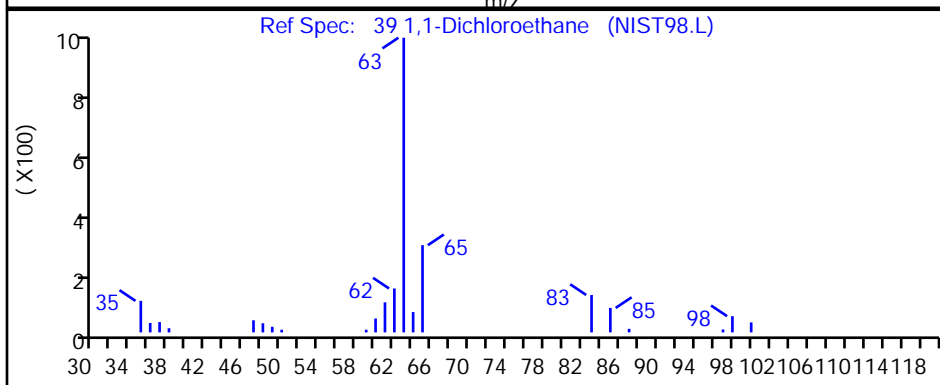
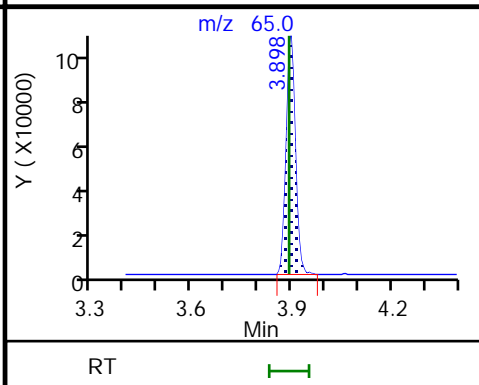
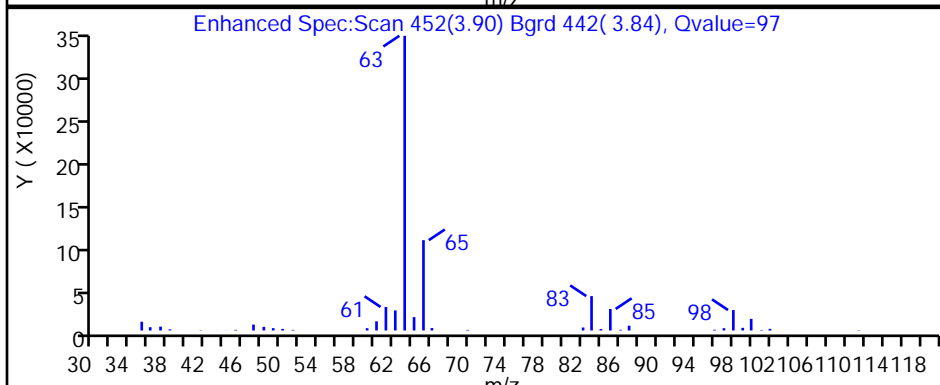
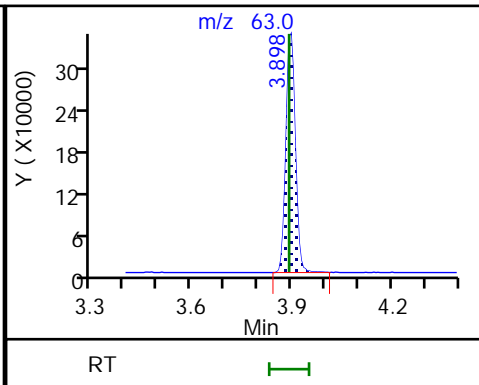
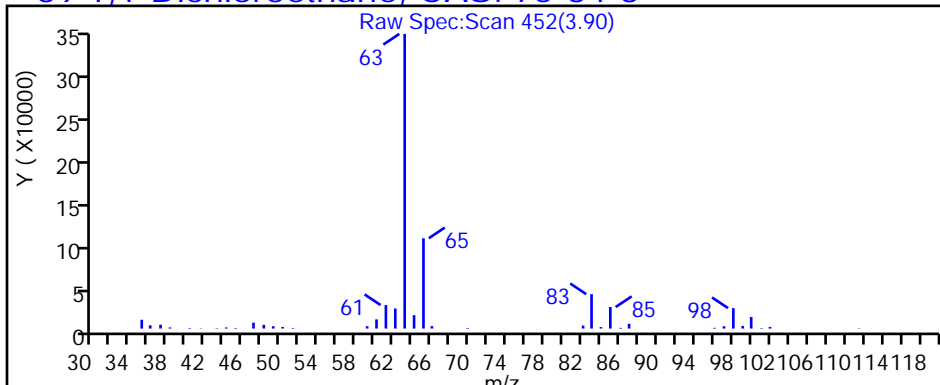
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

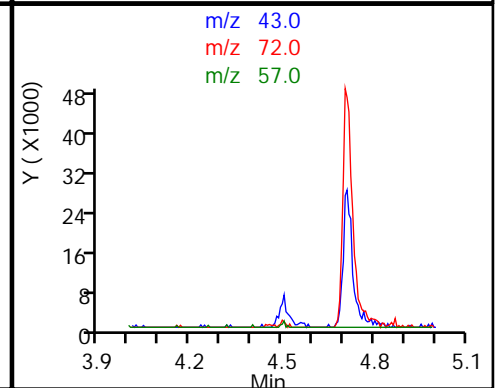
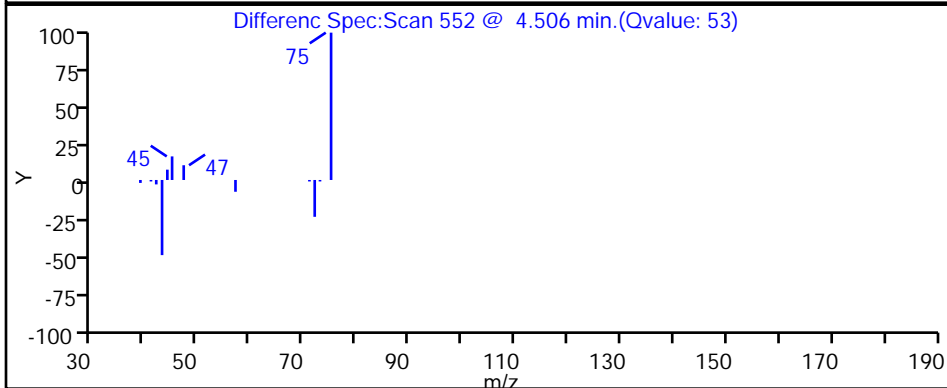
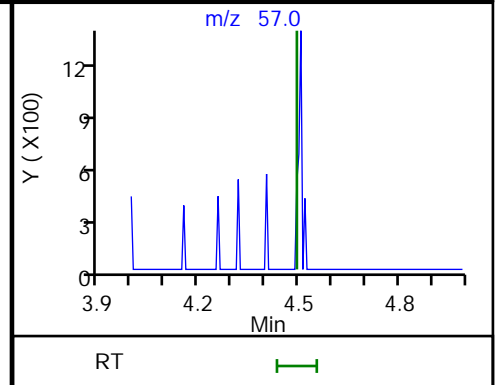
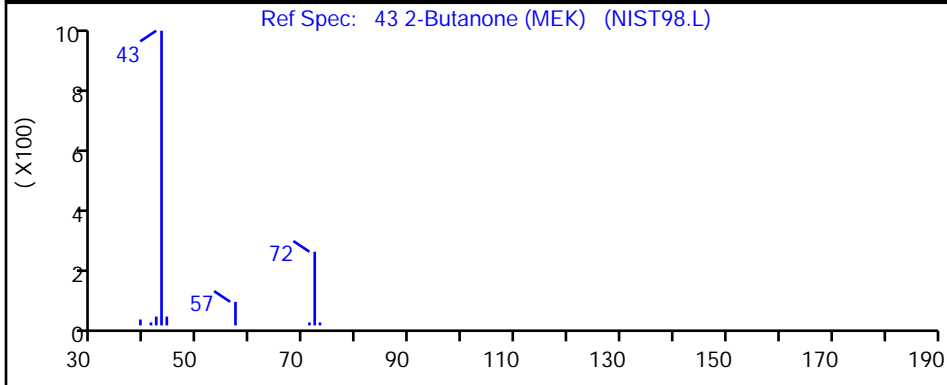
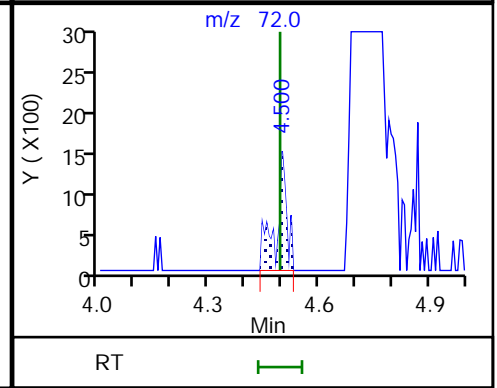
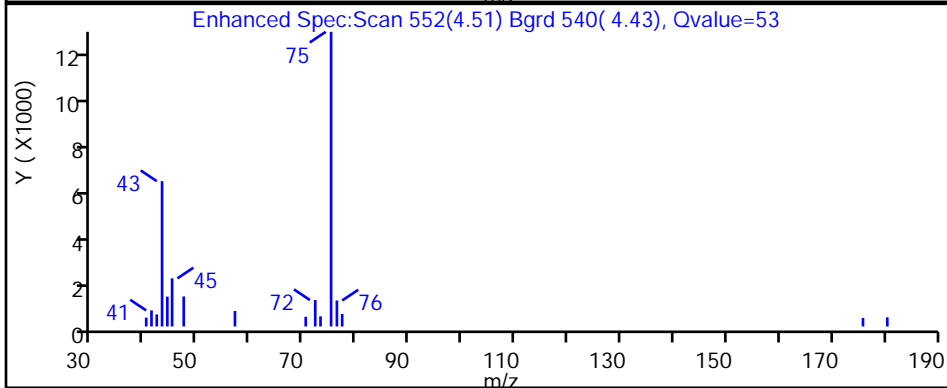
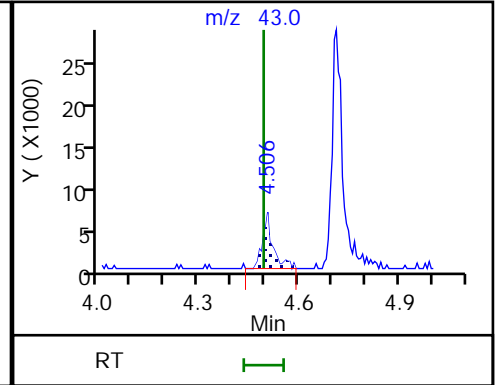
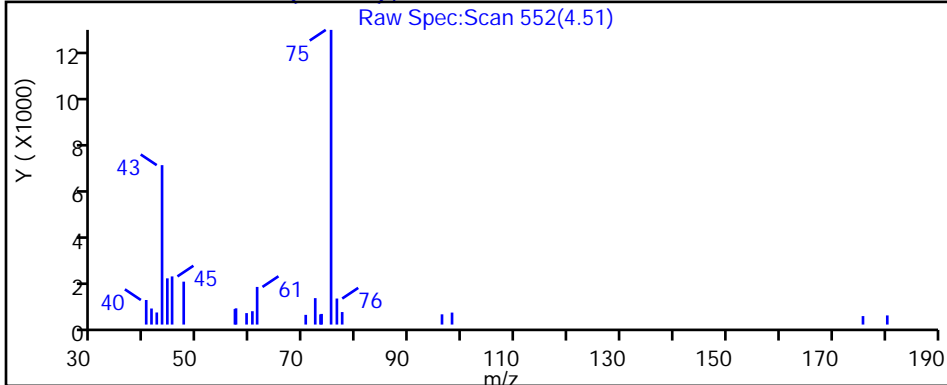
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

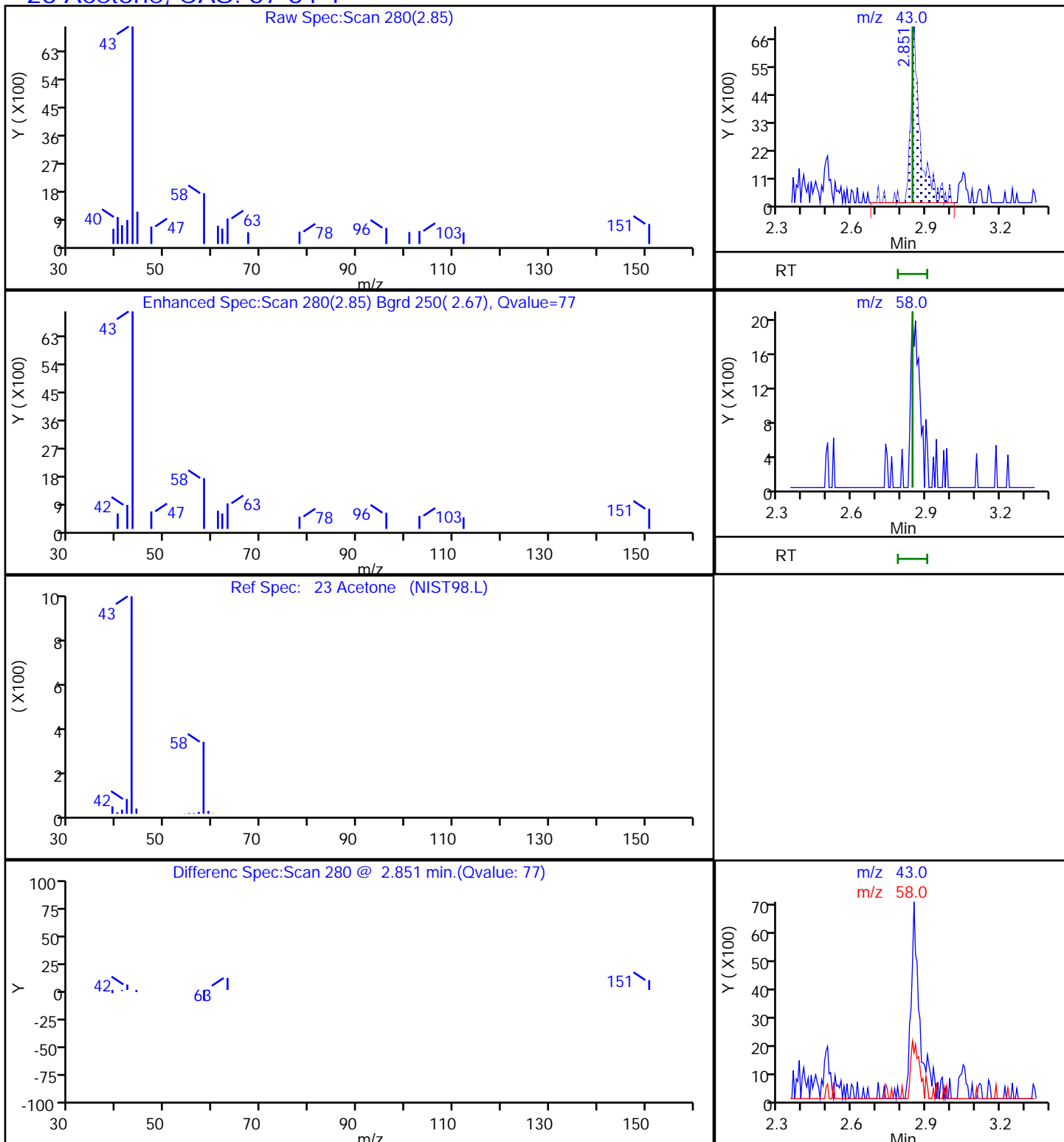
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

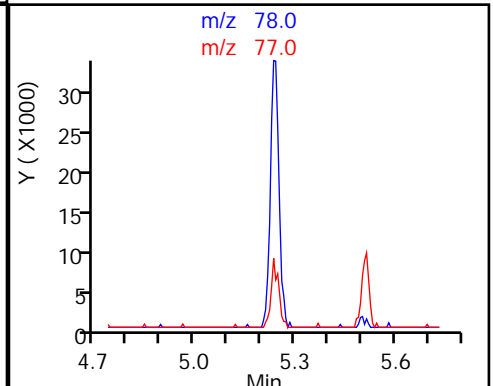
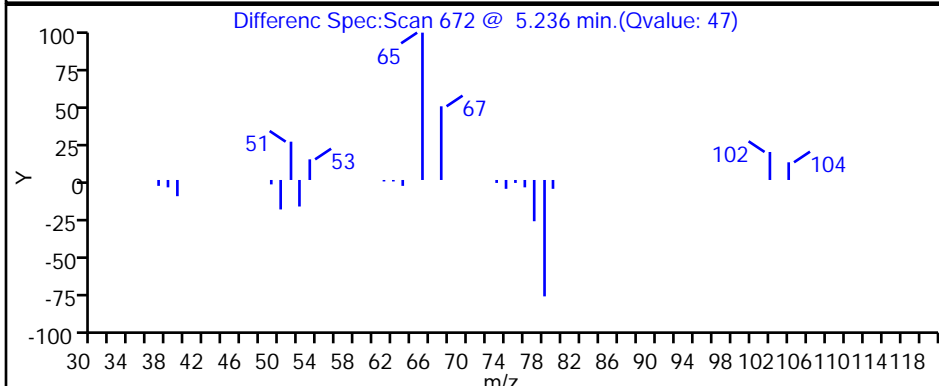
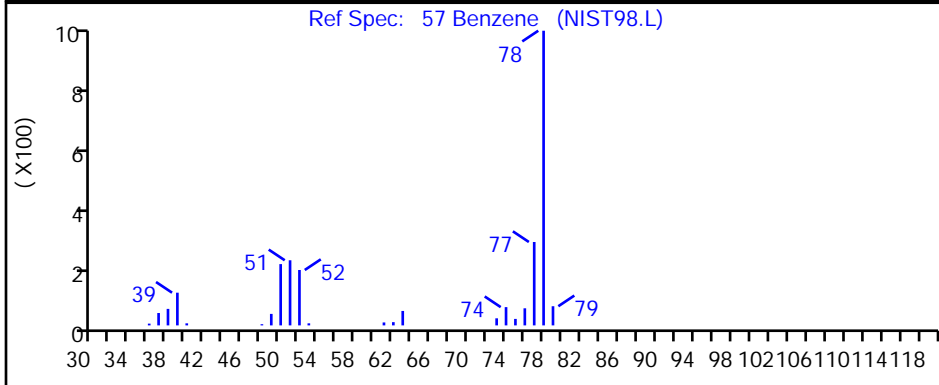
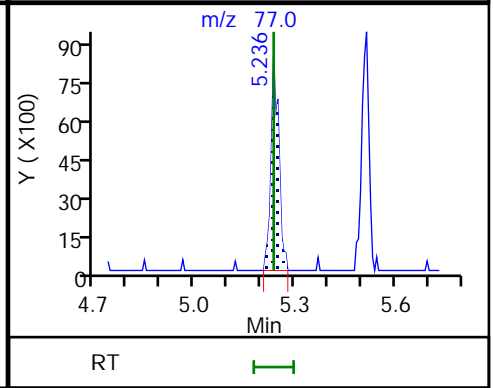
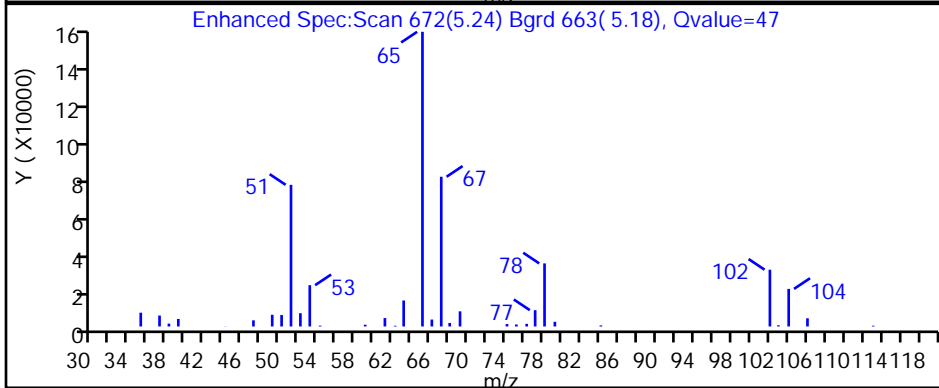
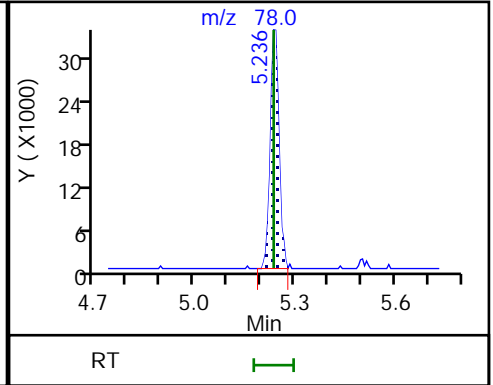
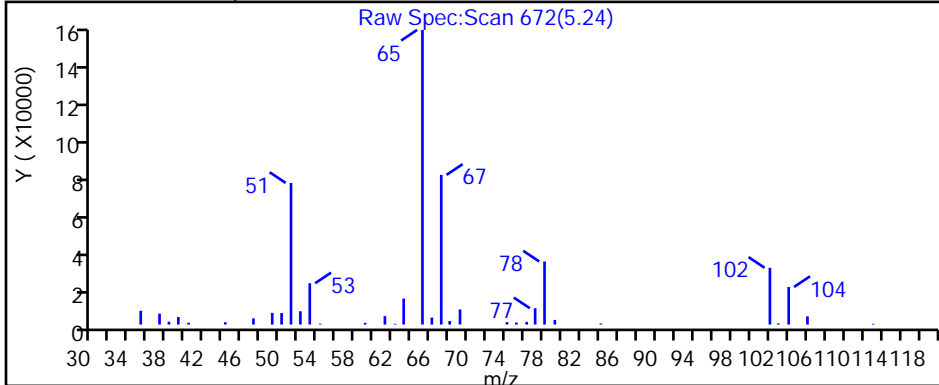
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

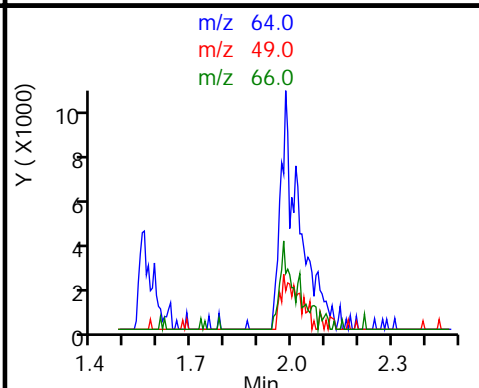
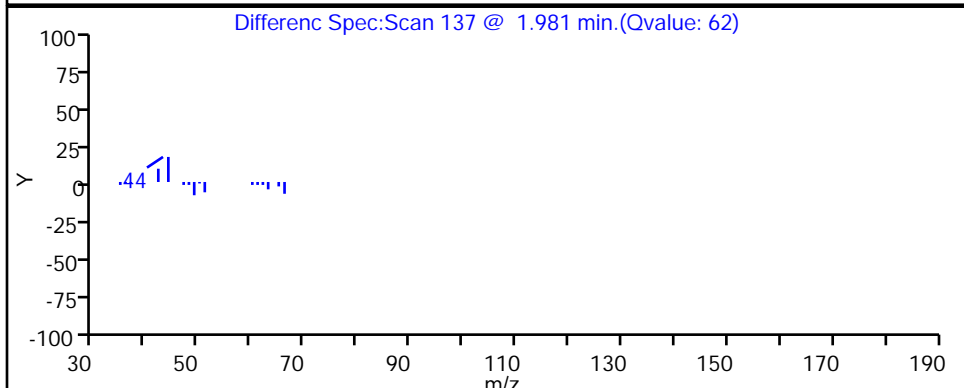
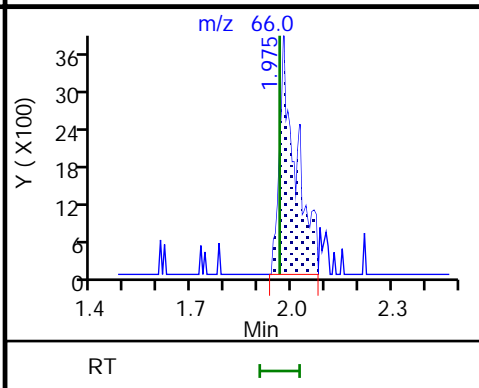
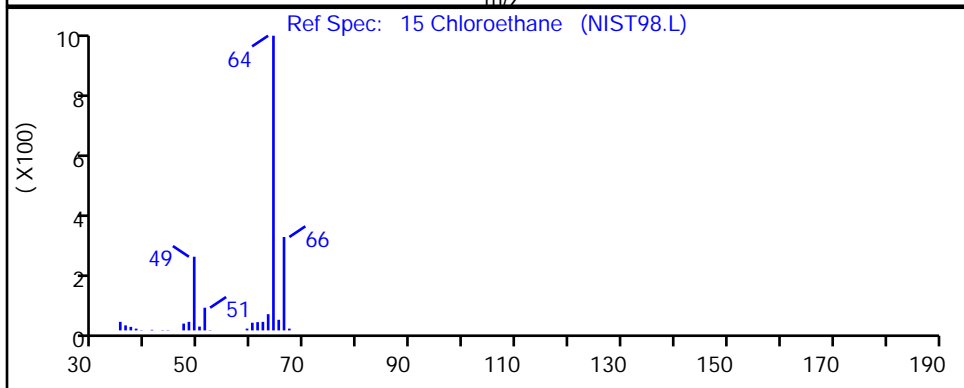
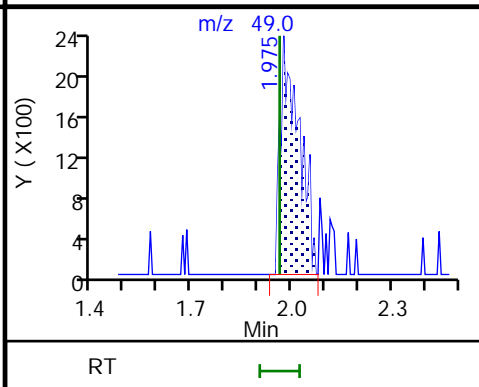
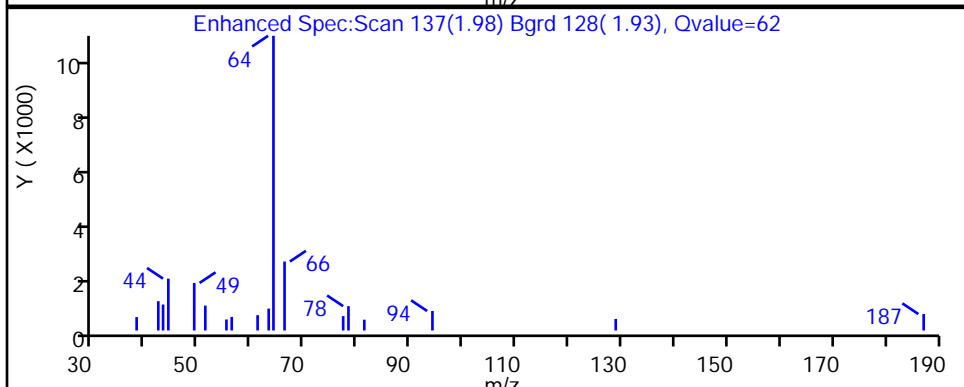
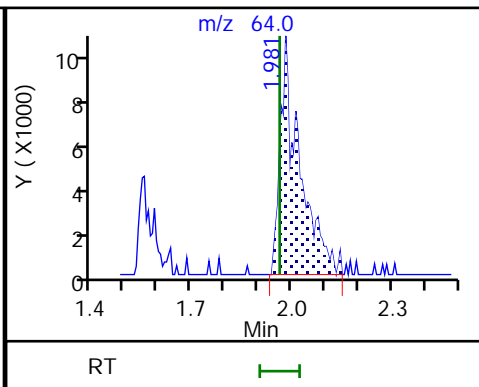
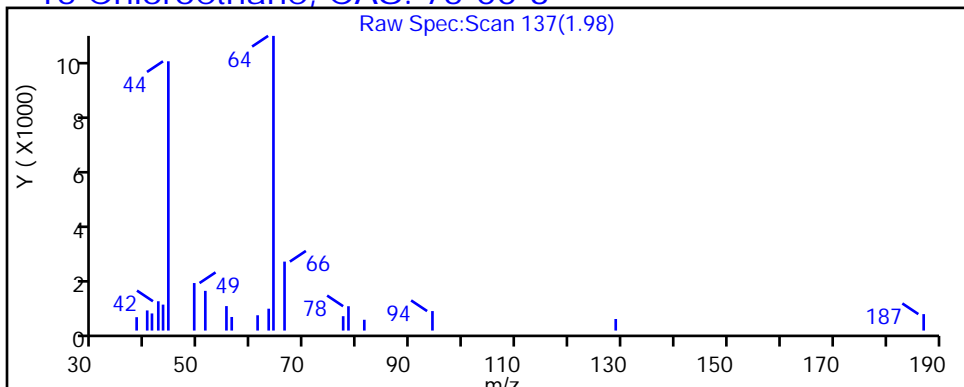
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

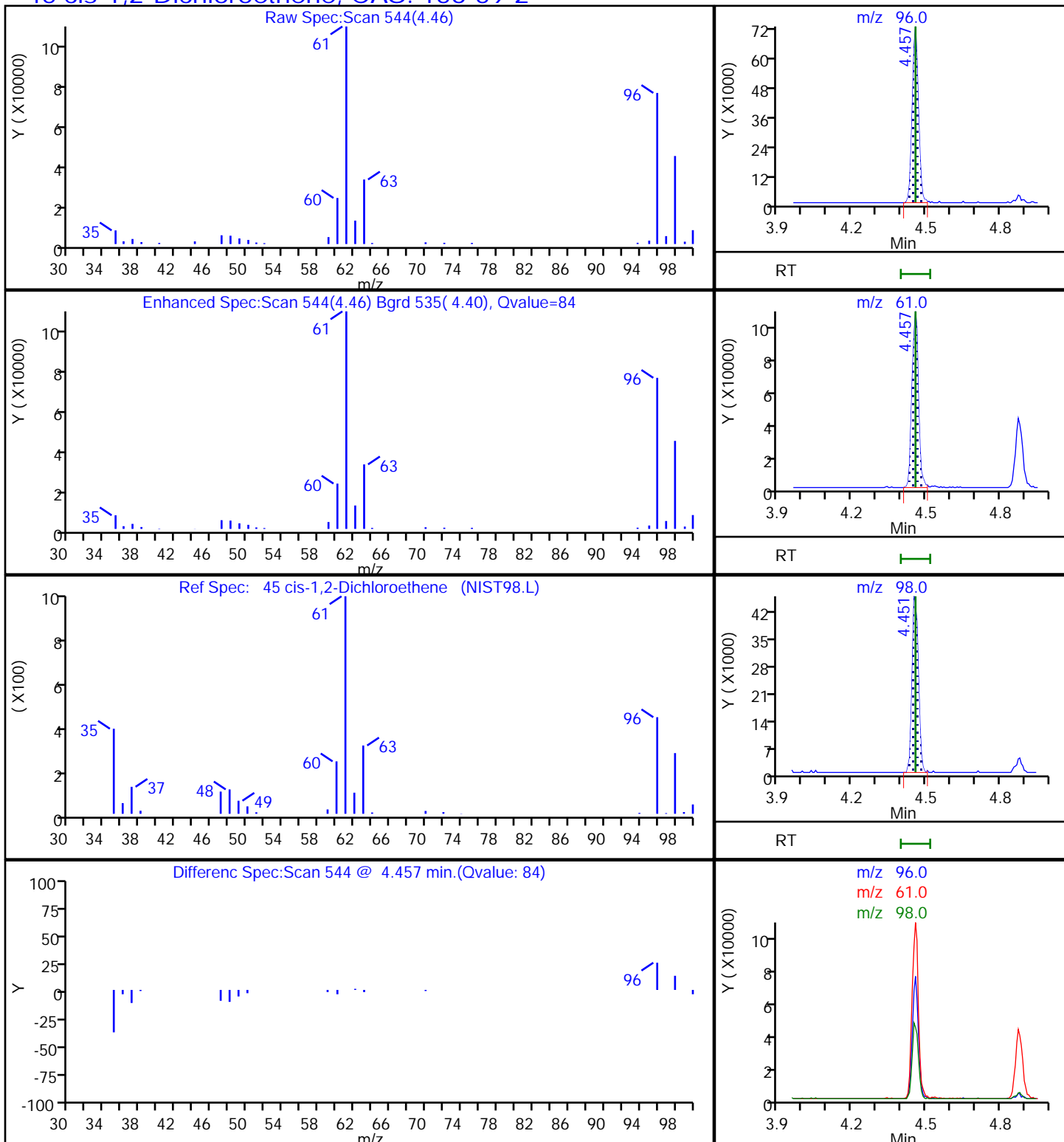
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

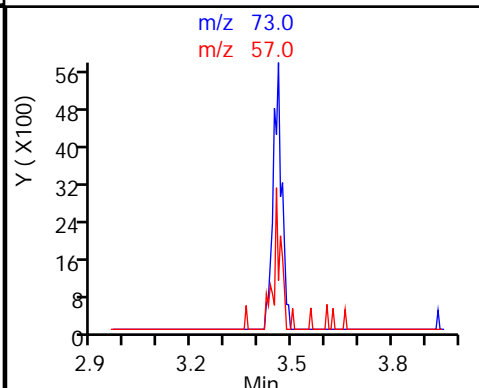
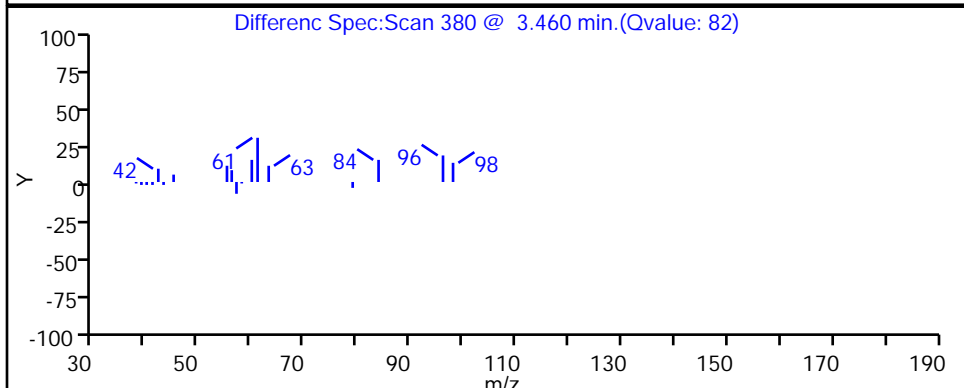
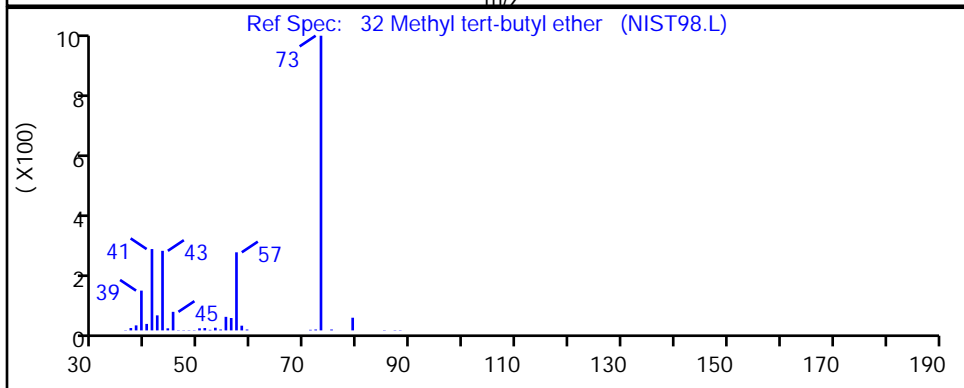
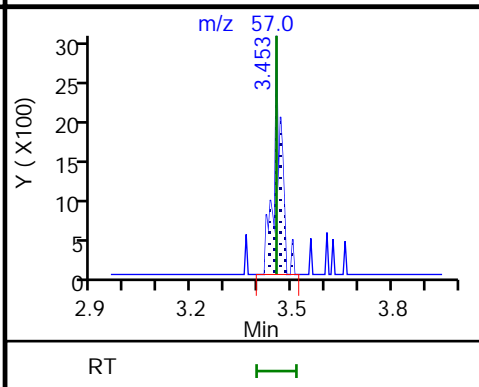
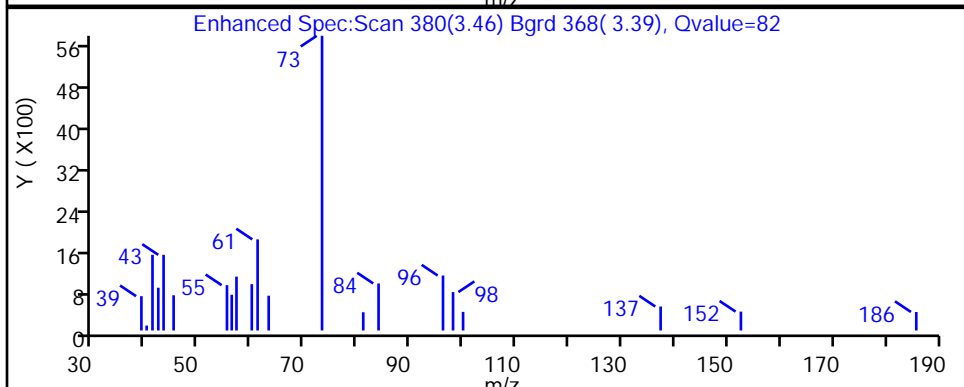
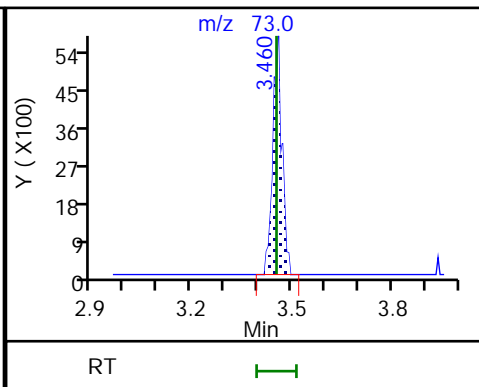
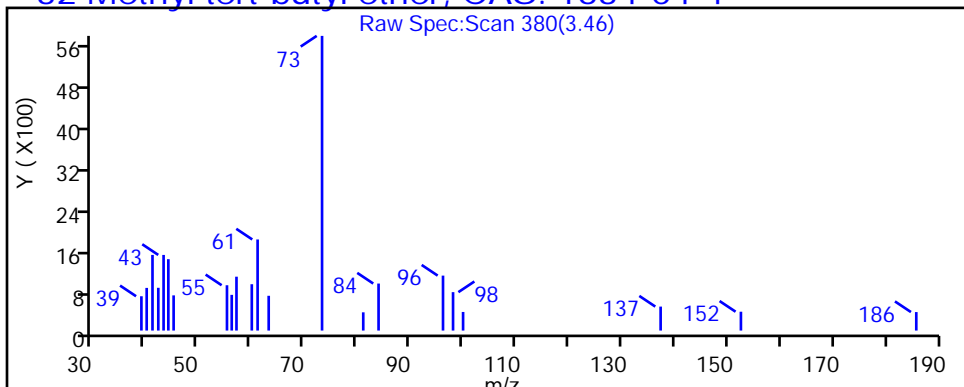
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

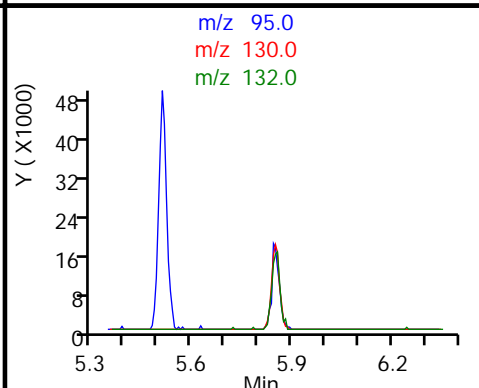
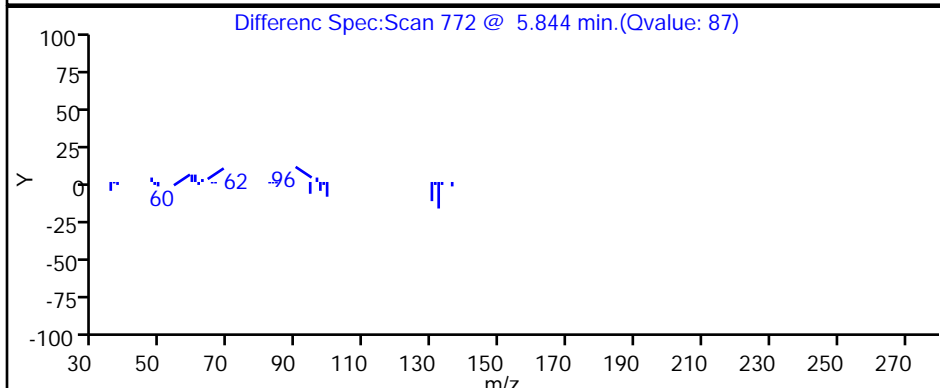
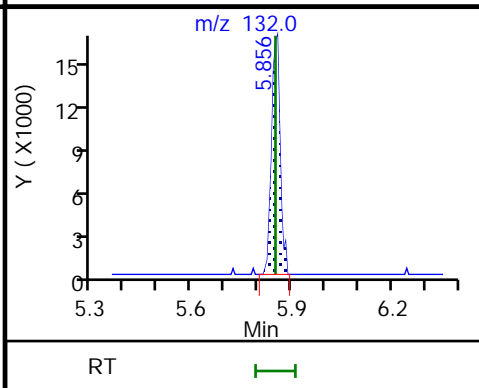
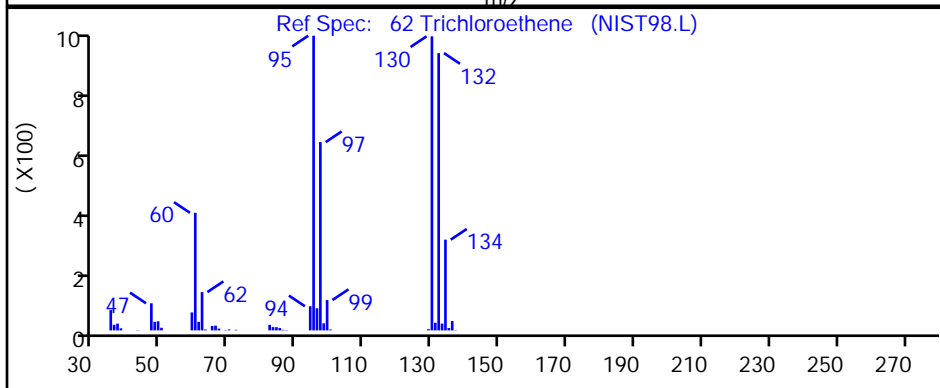
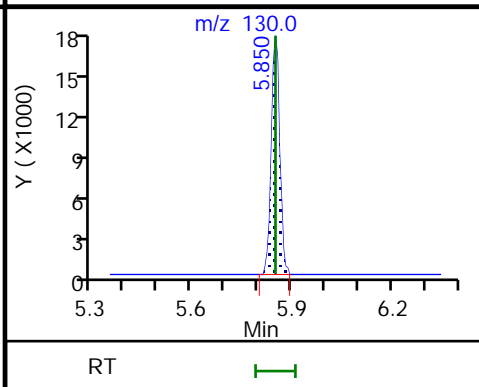
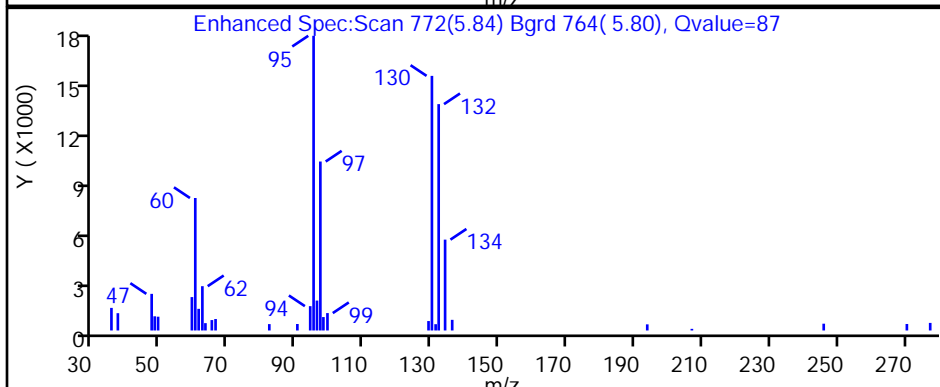
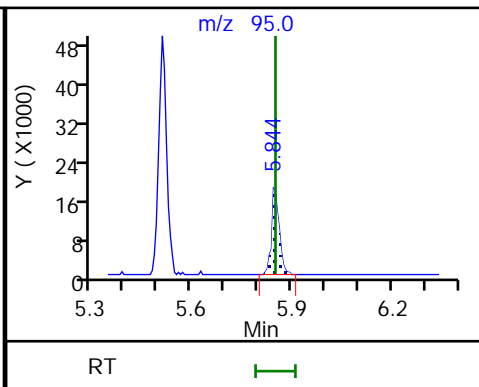
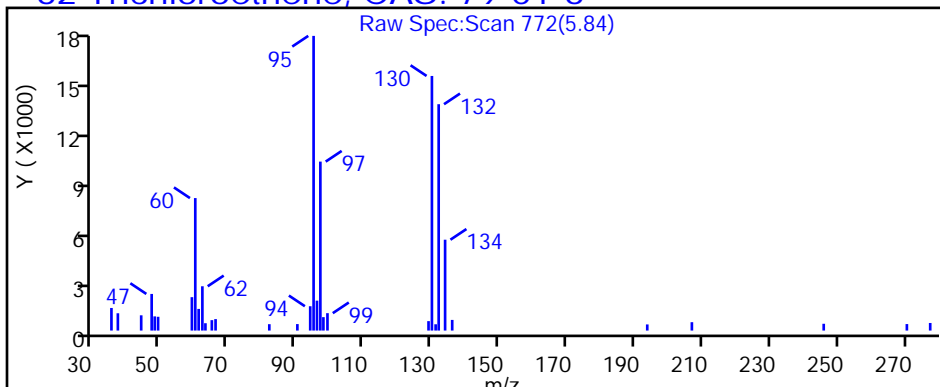
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

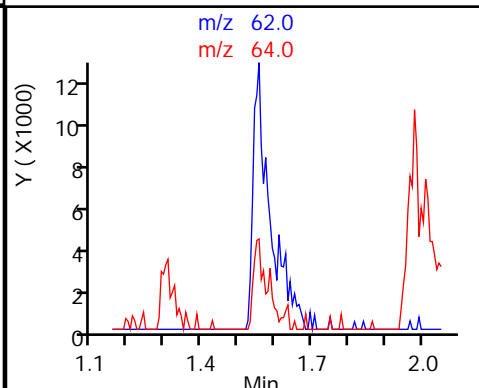
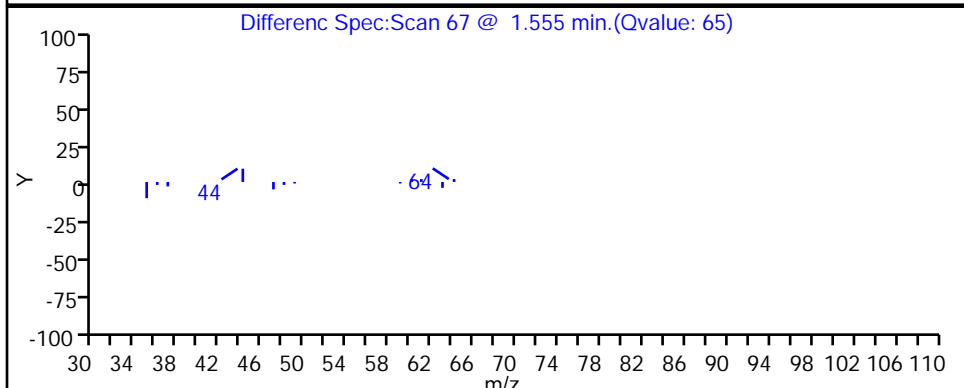
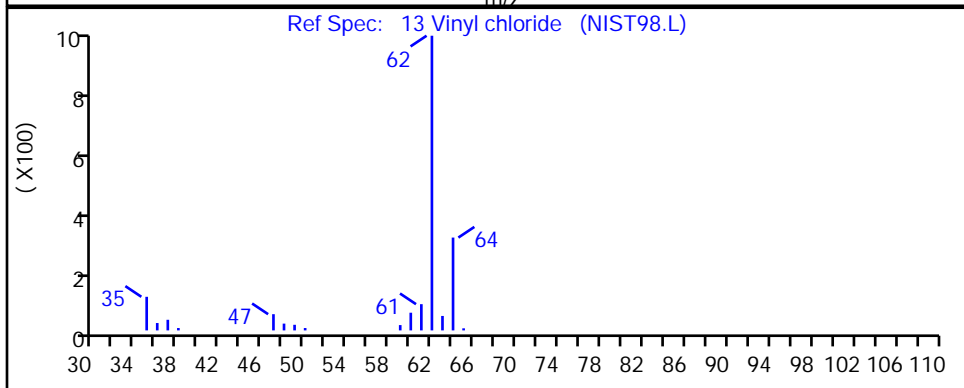
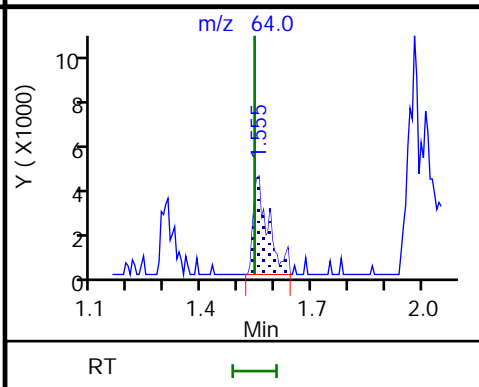
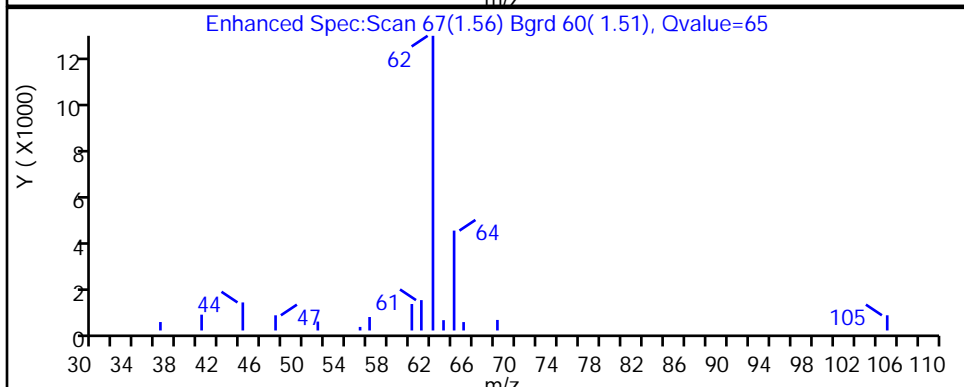
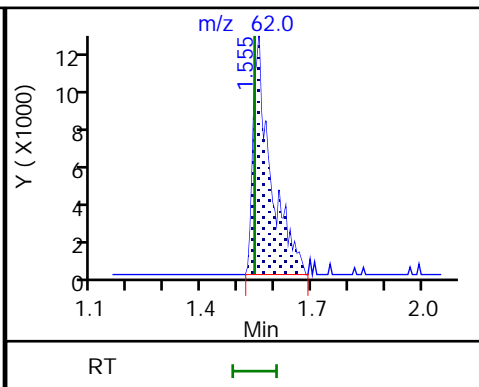
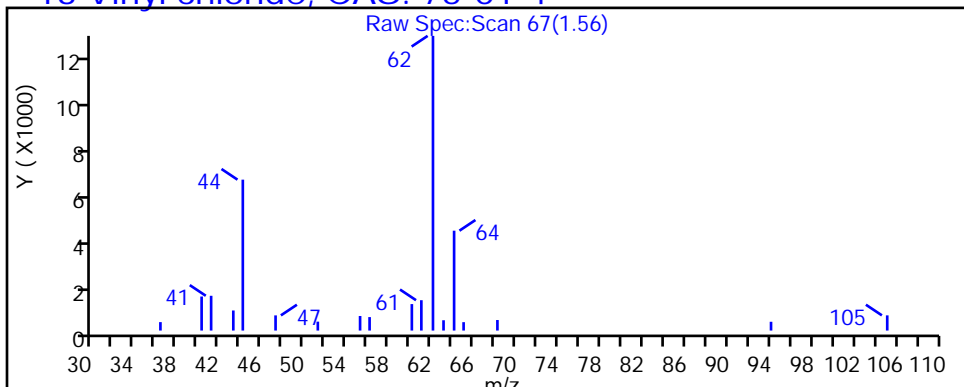
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

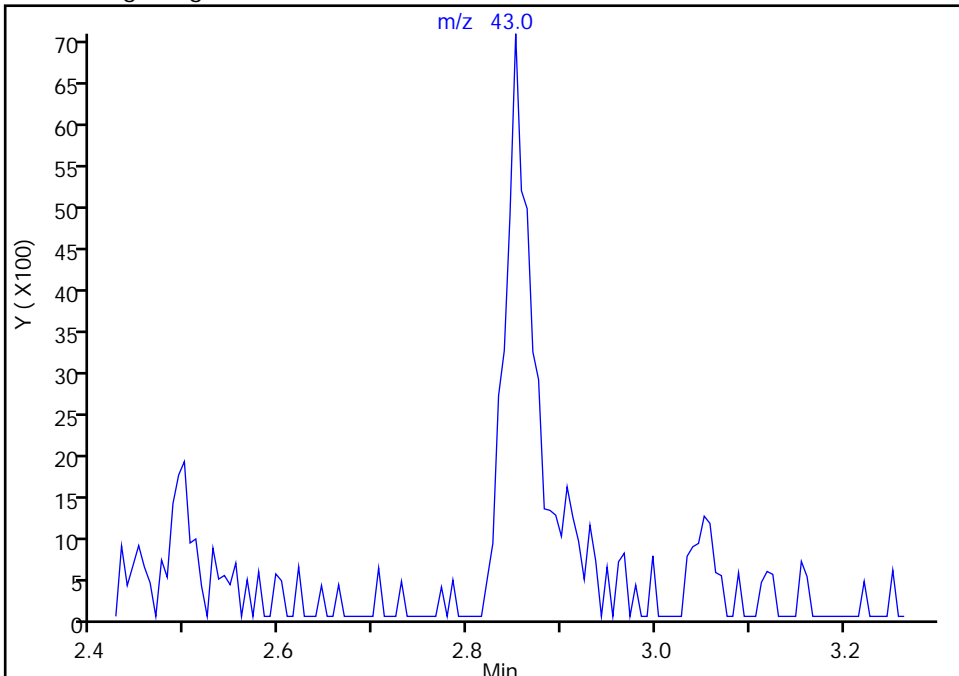
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D
Injection Date: 23-Jun-2018 16:07:30 Instrument ID: HP5973S
Lims ID: 480-137527-G-2 Lab Sample ID: 480-137527-2
Client ID: ML-7-D
Operator ID: RB ALS Bottle#: 17 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

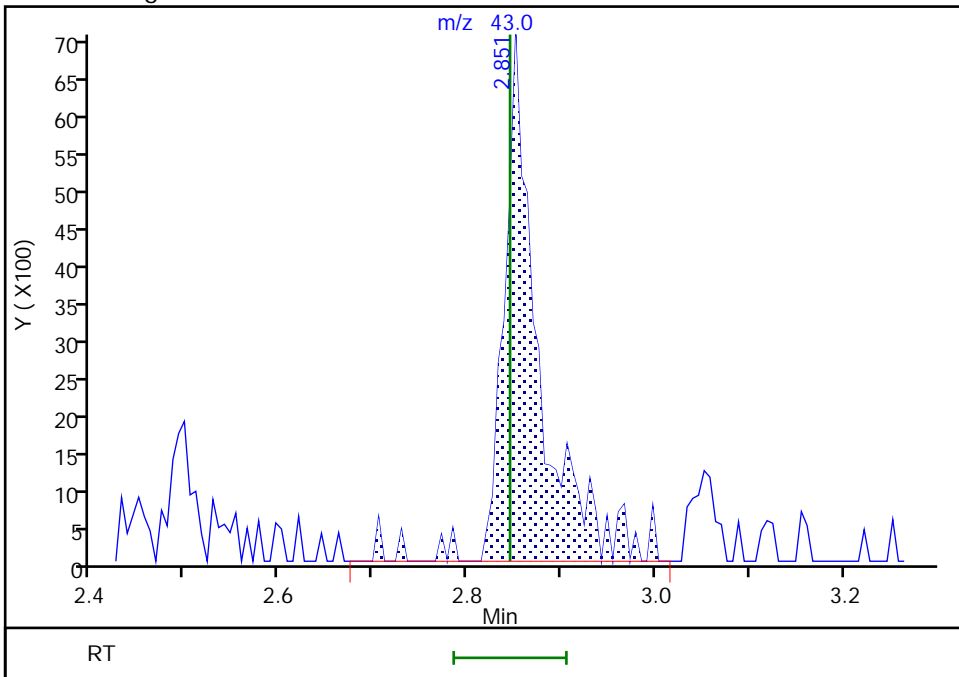
Not Detected
Expected RT: 2.85

Processing Integration Results



RT: 2.85
Area: 18657
Amount: 5.196343
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 24-Jun-2018 09:03:54
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2656.D

Injection Date: 23-Jun-2018 16:07:30

Instrument ID: HP5973S

Lims ID: 480-137527-G-2

Lab Sample ID: 480-137527-2

Client ID: ML-7-D

Operator ID: RB

ALS Bottle#: 17 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

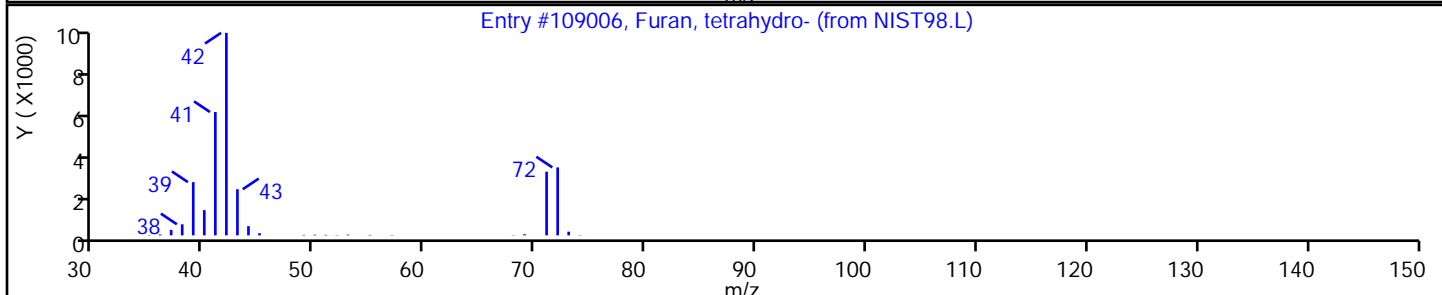
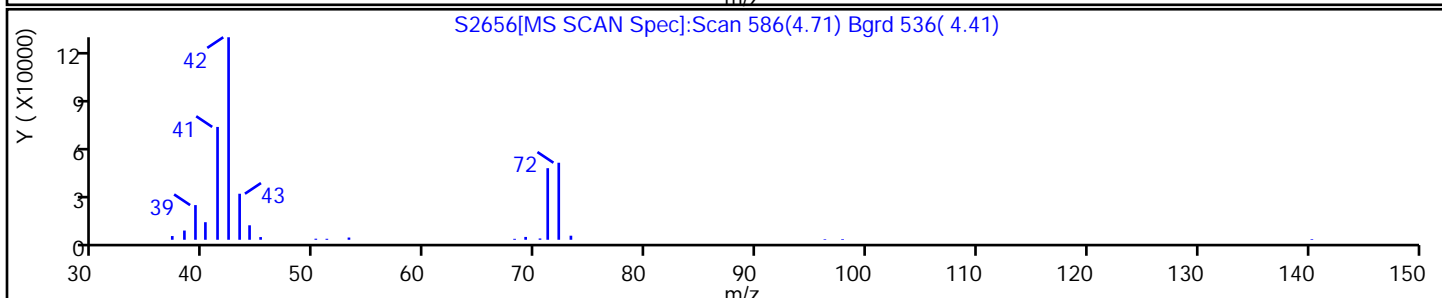
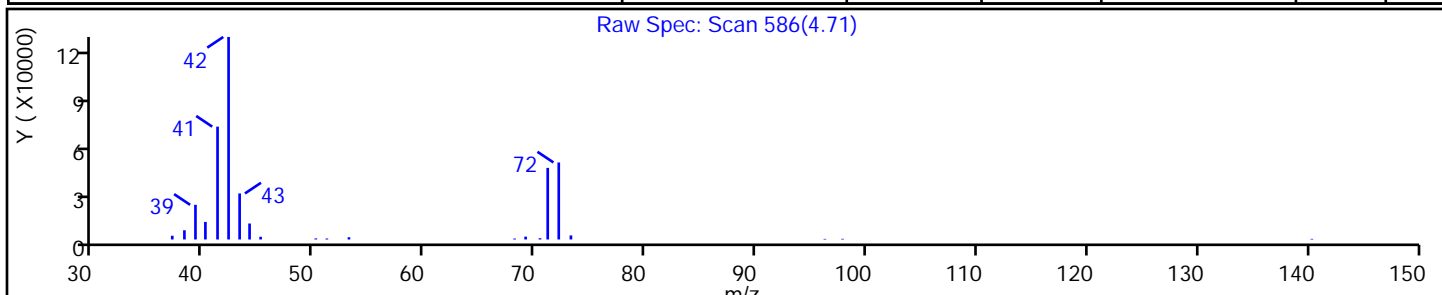
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Furan, tetrahydro-	109-99-9	NIST98.L	109006	C4H8O	72	90



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137527-3
 Matrix: Water Lab File ID: S2657.D
 Analysis Method: 8260C Date Collected: 06/14/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 16:30
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	69		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	J	5.0	1.6
75-34-3	1,1-Dichloroethane	180		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	12	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	29	J	50	15
71-43-2	Benzene	8.0		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	26		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	64		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137527-3
 Matrix: Water Lab File ID: S2657.D
 Analysis Method: 8260C Date Collected: 06/14/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 16:30
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	1.7	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	13		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	16		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137527-3
 Matrix: Water Lab File ID: S2657.D
 Analysis Method: 8260C Date Collected: 06/14/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 16:30
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 55

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
109-99-9	Furan, tetrahydro-	4.71	55	T J N	91%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D
 Lims ID: 480-137527-B-3
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 23-Jun-2018 16:30:30 ALS Bottle#: 18 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137527-b-3
 Misc. Info.: 480-0072571-025
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:04:16 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk

Date: 24-Jun-2018 09:05:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	176854	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	86	369485	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	98	334952	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.932	-0.006	65	226608	26.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	146010	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	92	897166	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	271078	24.5	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62	1.549	1.543	0.006	69	38554	3.20	
14 Bromomethane	94		1.860				ND	
15 Chloroethane	64	2.018	1.963	0.055	71	37725	5.18	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.693	0.024	1	3928	0.9300	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43	2.851	2.851	0.006	60	20069	5.90	
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.247				ND	
32 Methyl tert-butyl ether	73	3.448	3.454	-0.006	65	9885	0.3377	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	70	2343	0.2621	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	96	671497	35.7	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	131104	12.8	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	26	12962	2.48	
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	94	169890	13.9	
52 Cyclohexane	56		4.883				ND	
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	47	59900	1.60	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95	5.851	5.850	0.000	89	25375	2.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.966				ND	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92		7.085				ND	
77 trans-1,3-Dichloropropene	75		7.377				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.961				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106	9.178	9.178	0.000	5	2554	0.1494	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.470				ND	
94 Isopropylbenzene	105		9.561				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.821				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		0.1494	

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D
 Lims ID: 480-137527-B-3
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 23-Jun-2018 16:30:30 ALS Bottle#: 18 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137527-b-3
 Misc. Info.: 480-0072571-025
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:04:16 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027
 First Level Reviewer: nowakk Date: 24-Jun-2018 09:05:02

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
4.713	891654	11.0	153	91	109006	C4H8O	72	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.510	2032312	25.0

QC Flag Legend

Processing Flags

Reagents:

S_8260_IS_00292 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00271 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Worklist Smp#: 25

Client ID: DUPE

Purge Vol: 5.000 mL

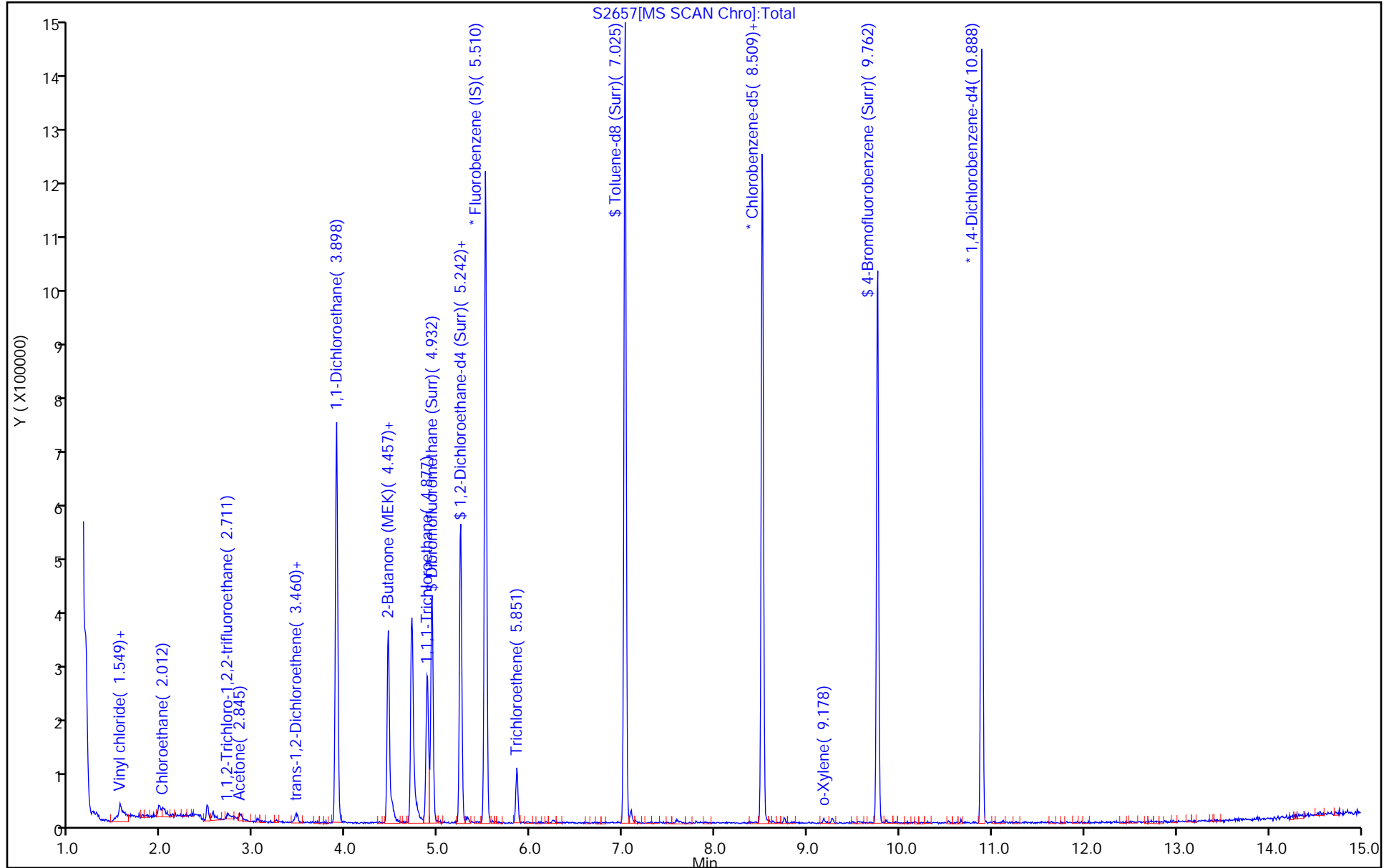
Dil. Factor: 5.0000

ALS Bottle#: 18

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

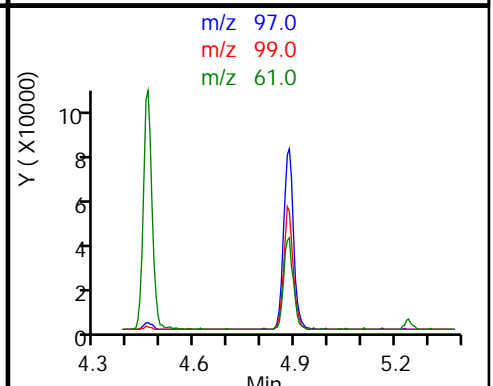
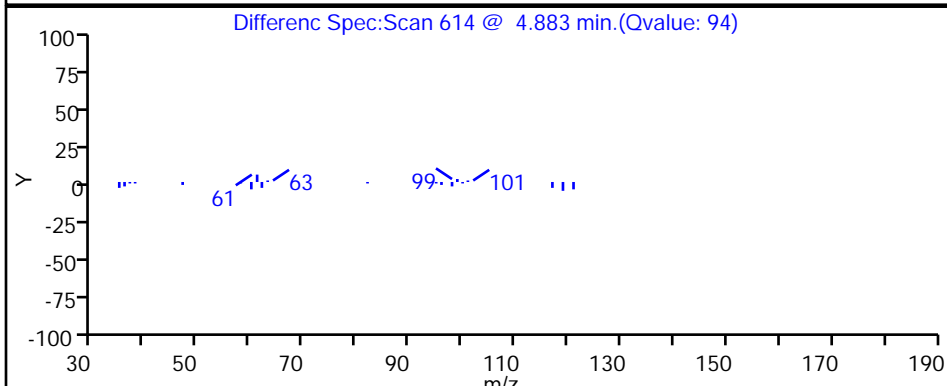
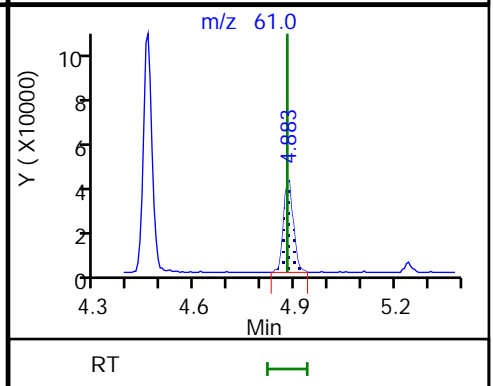
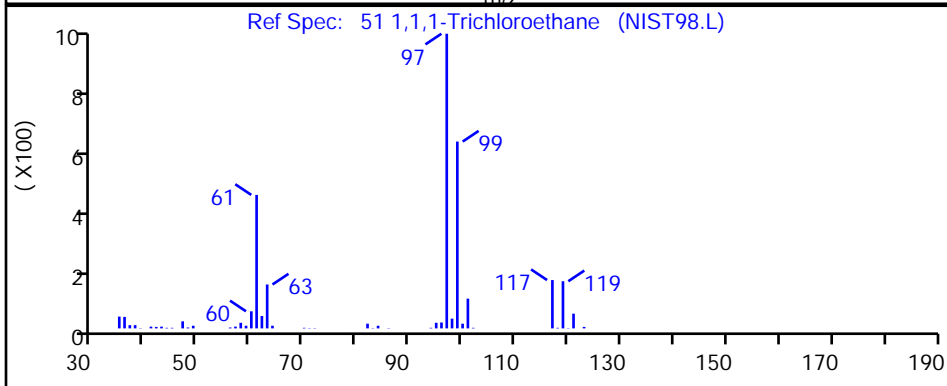
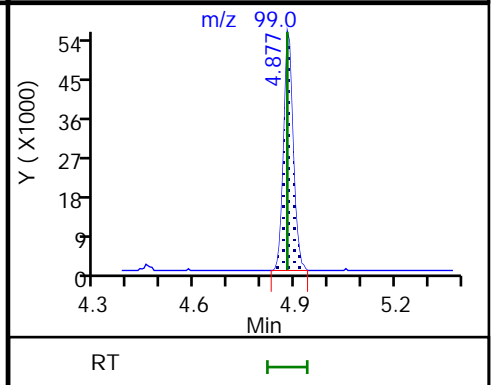
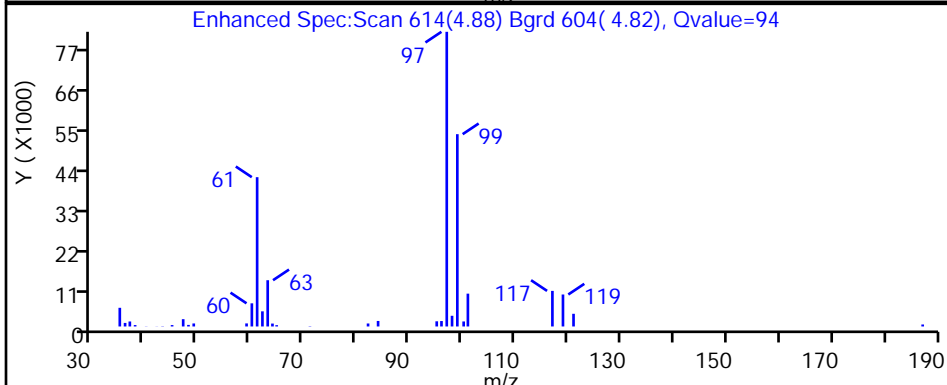
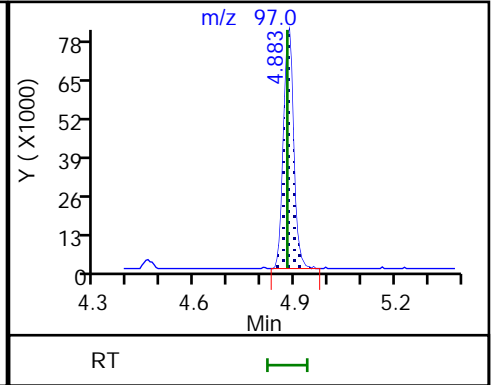
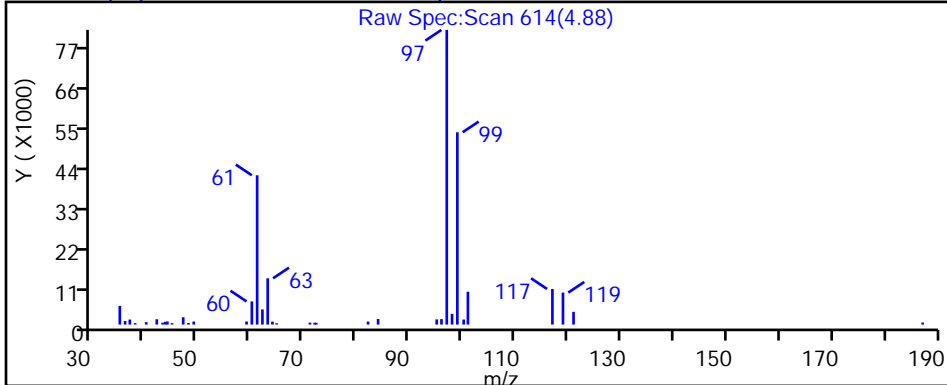
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

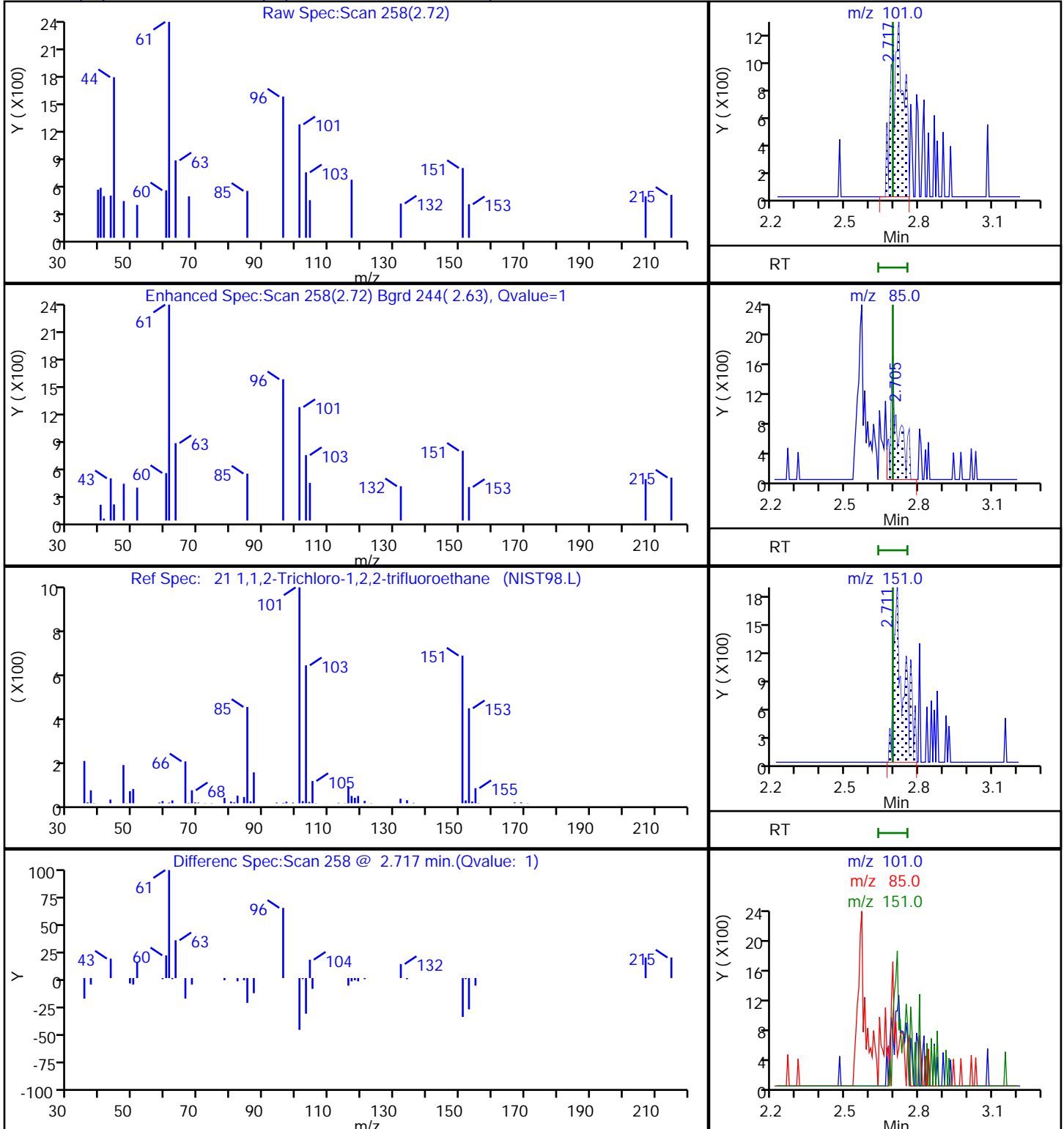
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

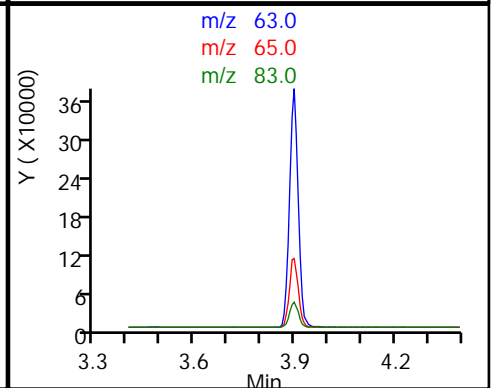
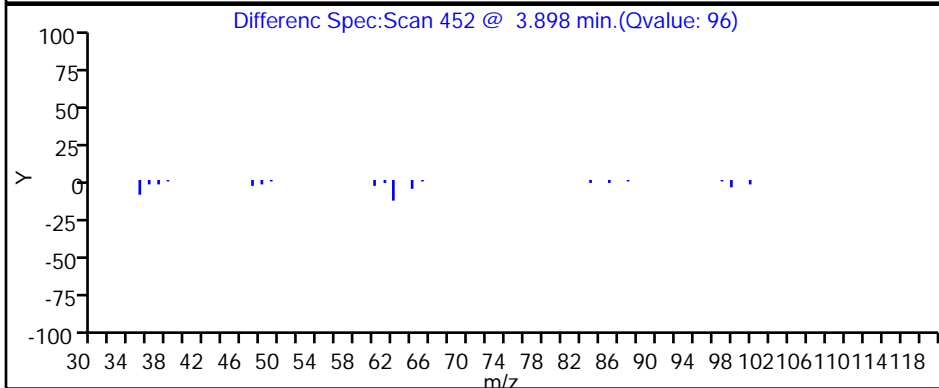
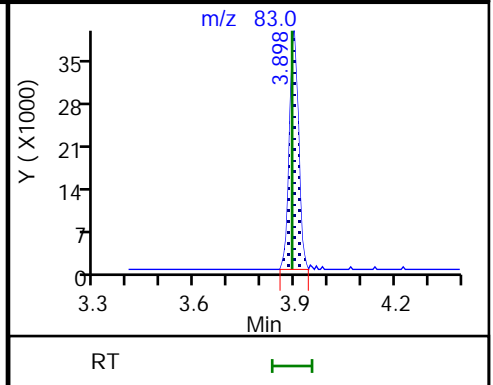
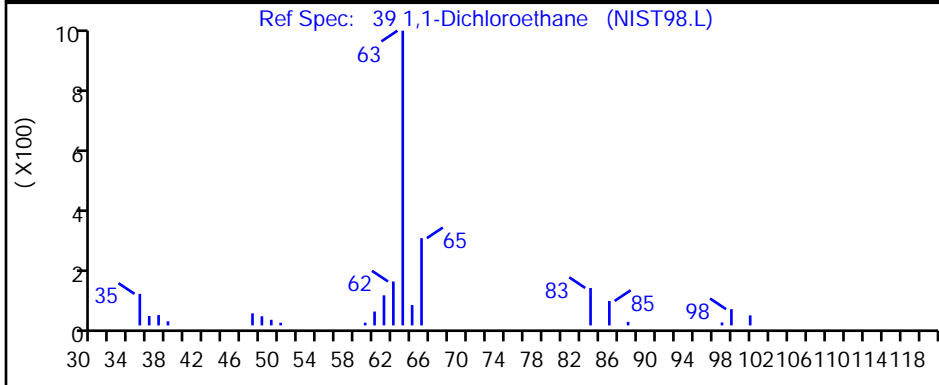
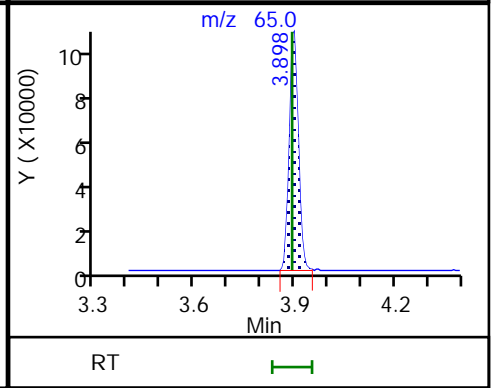
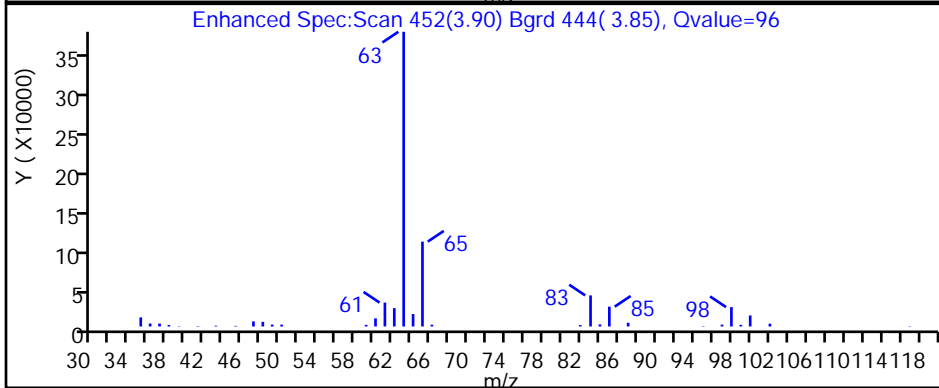
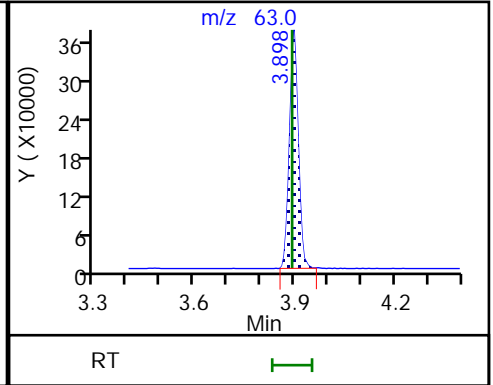
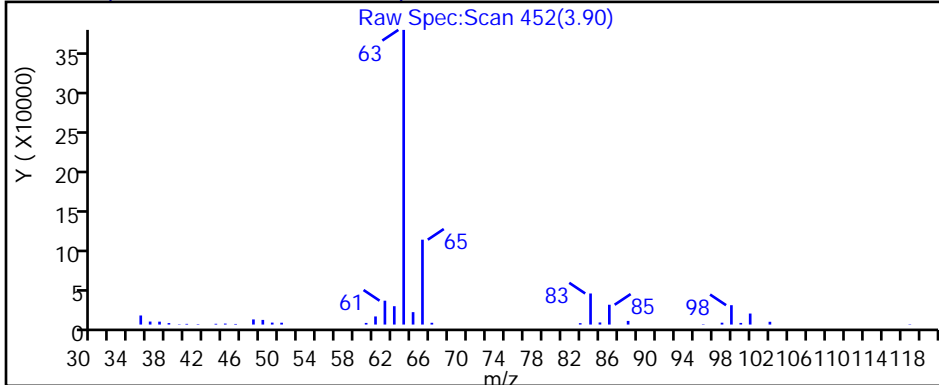
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

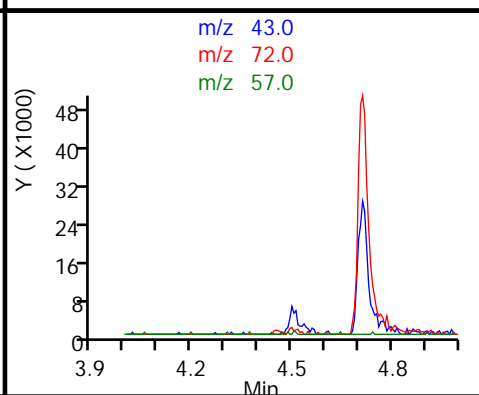
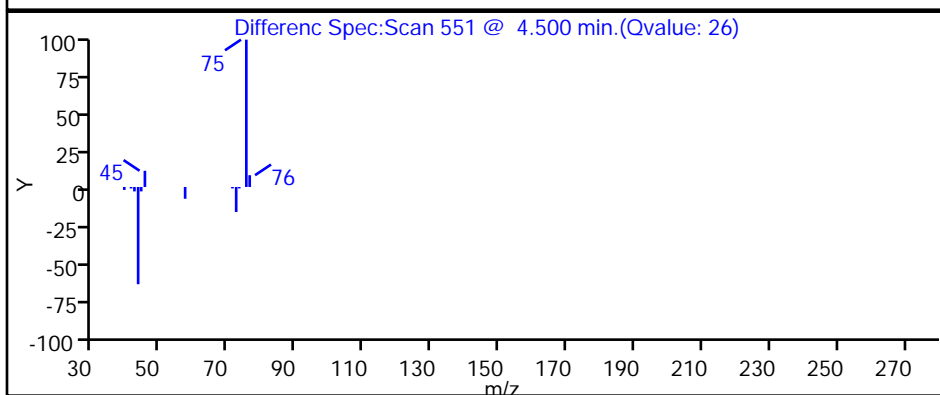
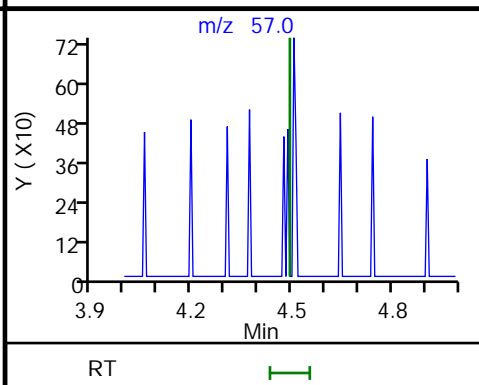
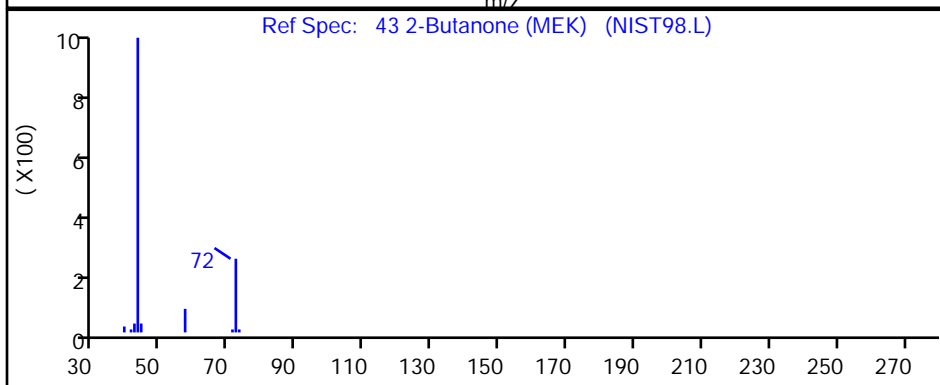
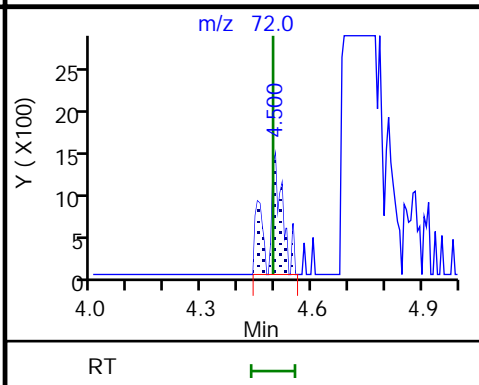
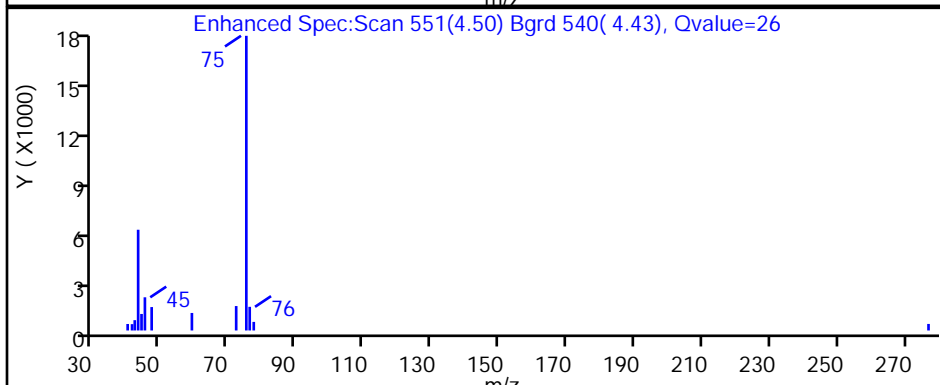
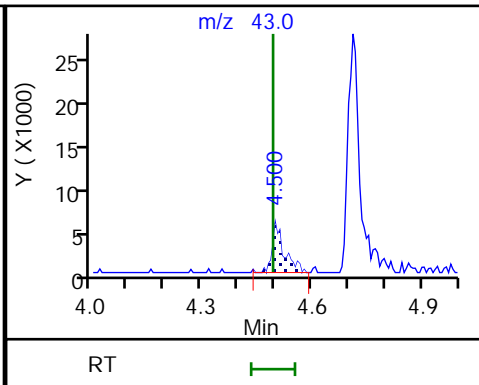
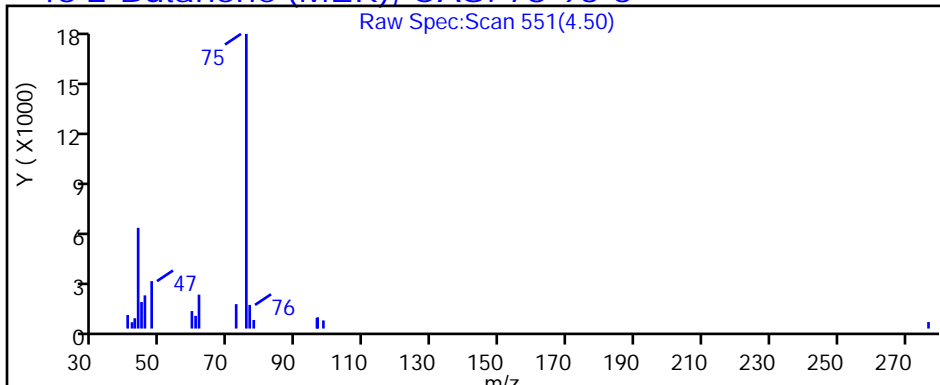
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

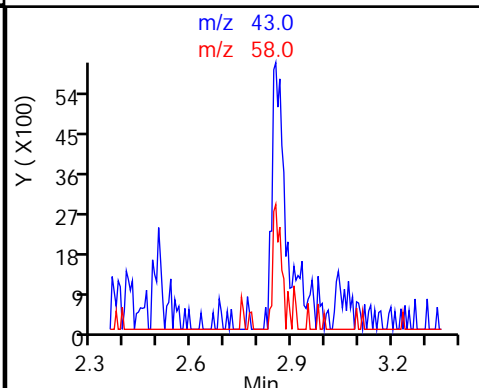
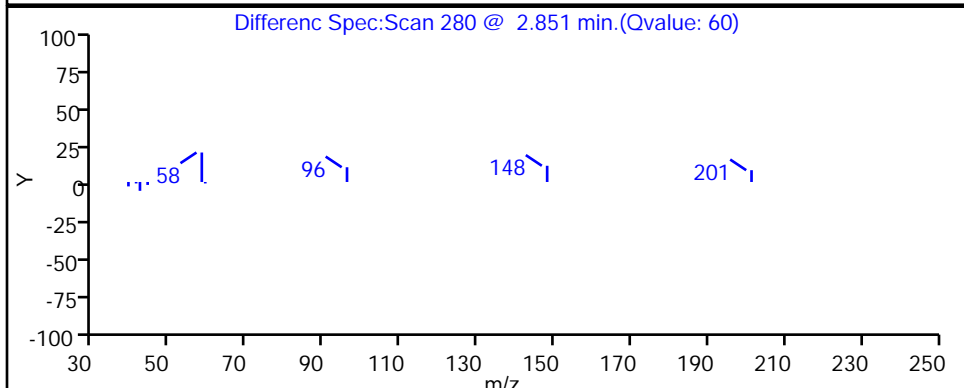
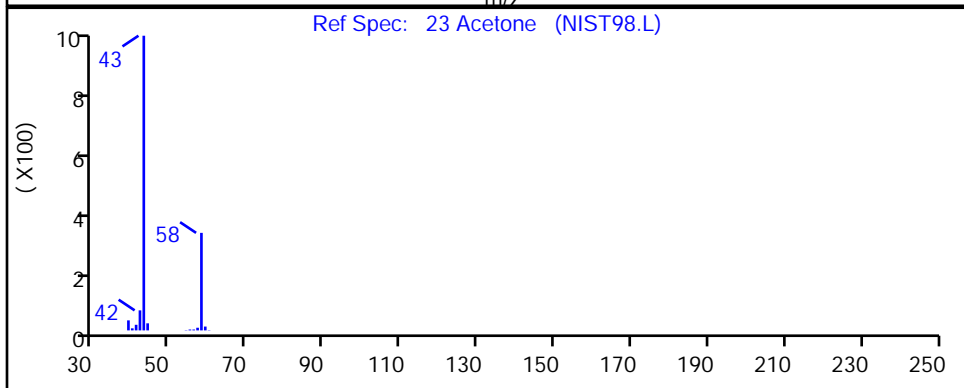
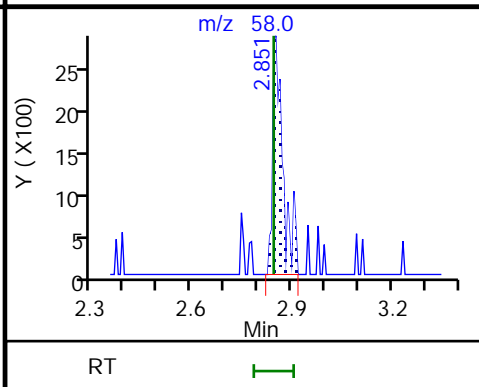
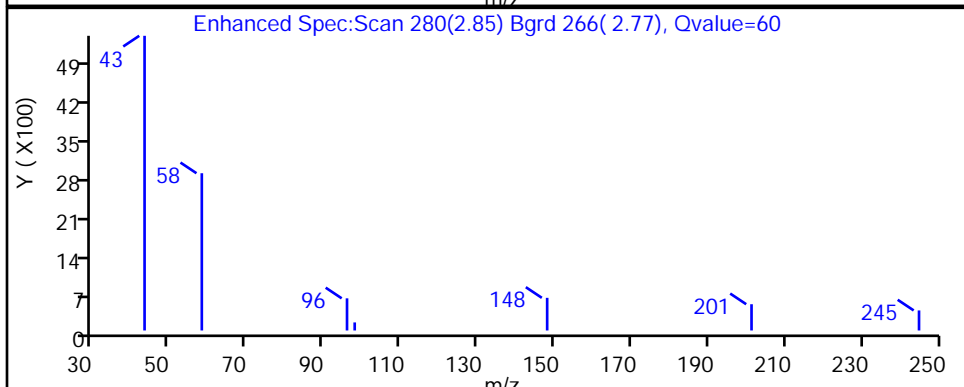
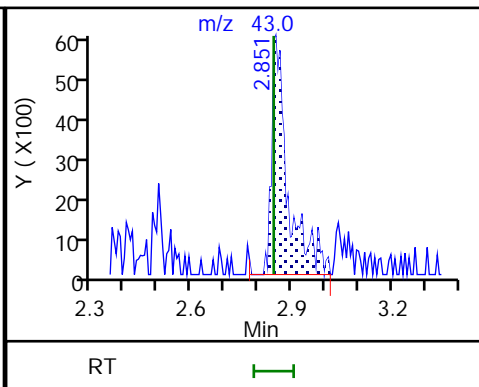
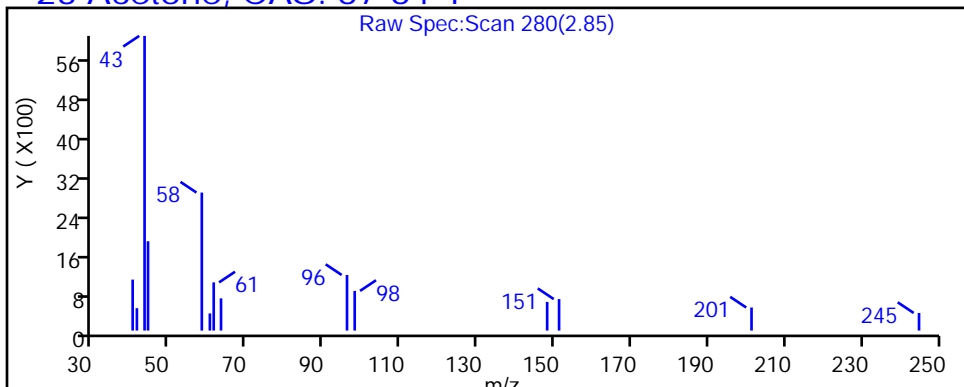
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

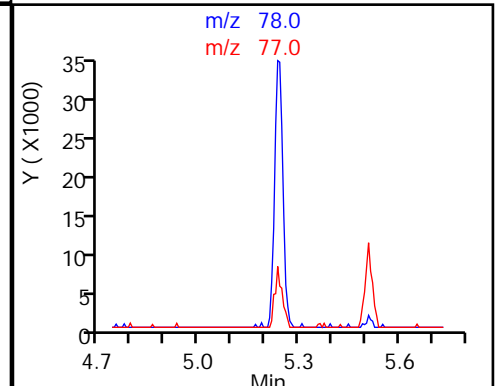
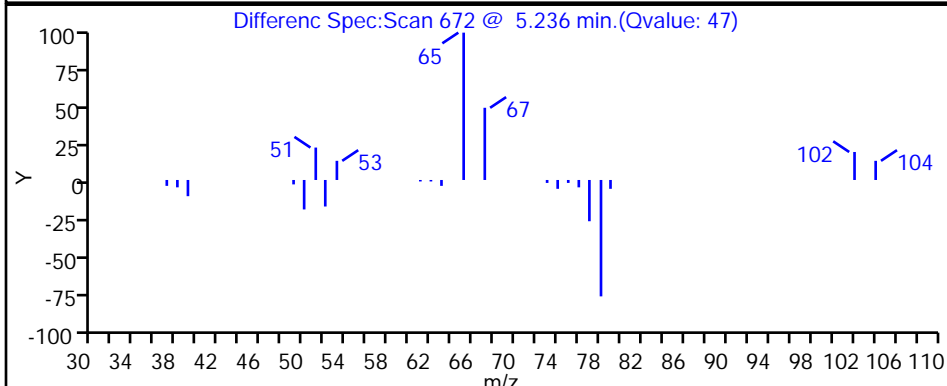
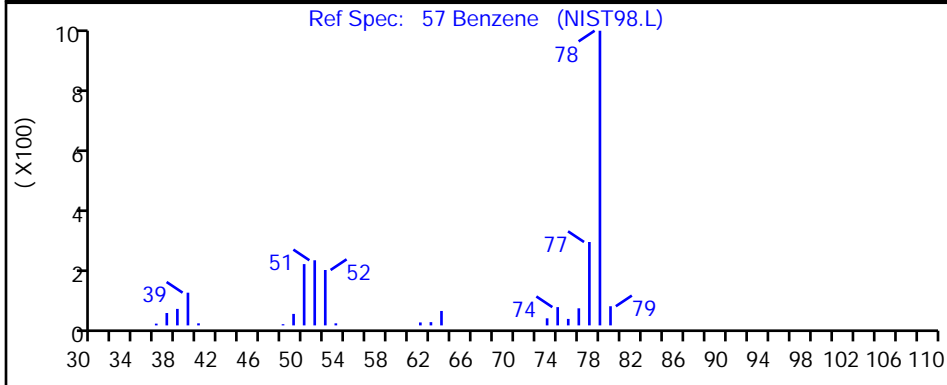
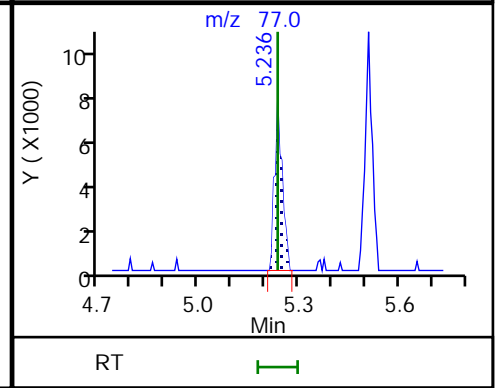
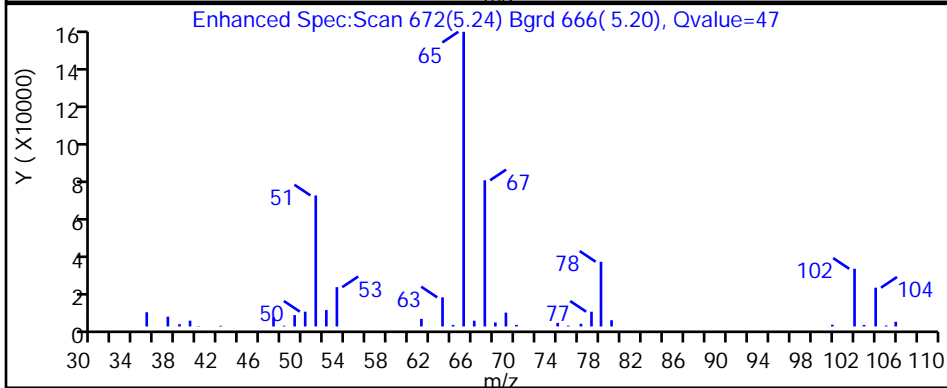
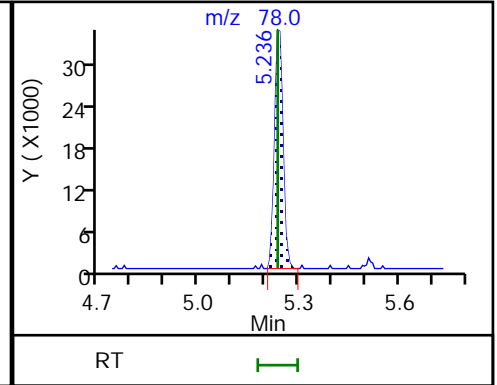
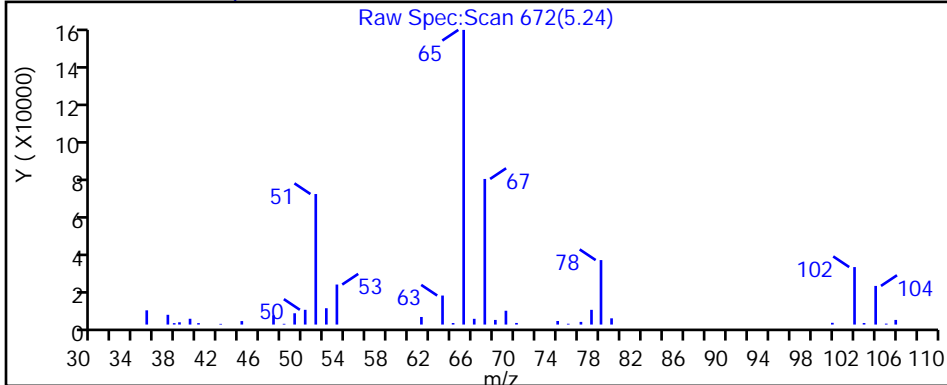
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

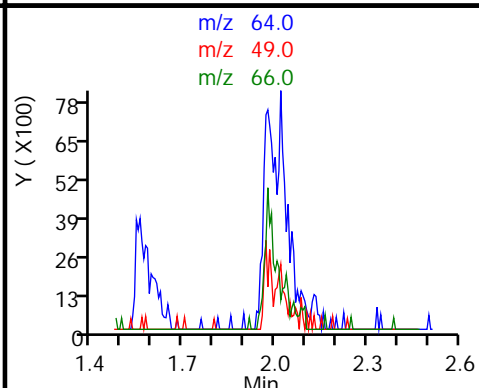
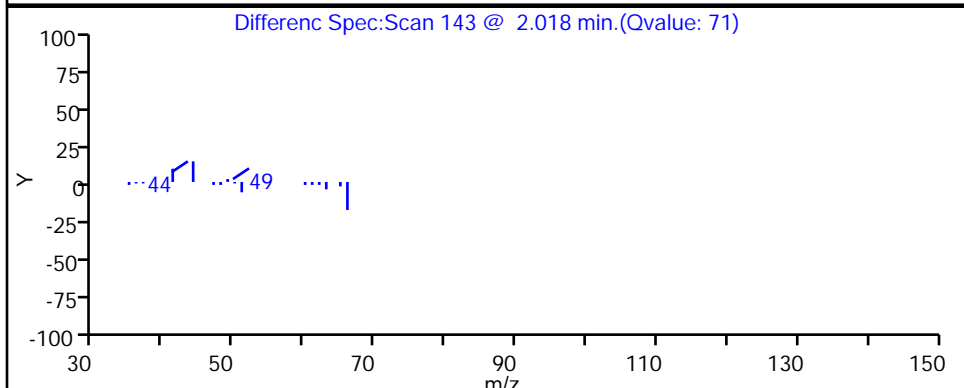
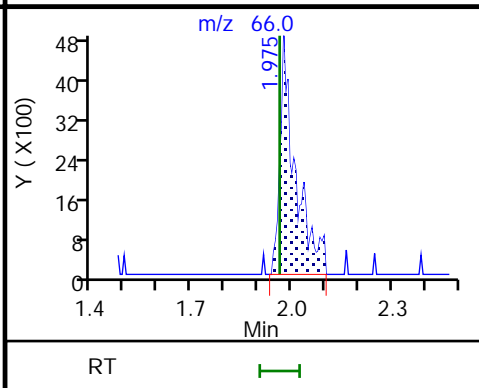
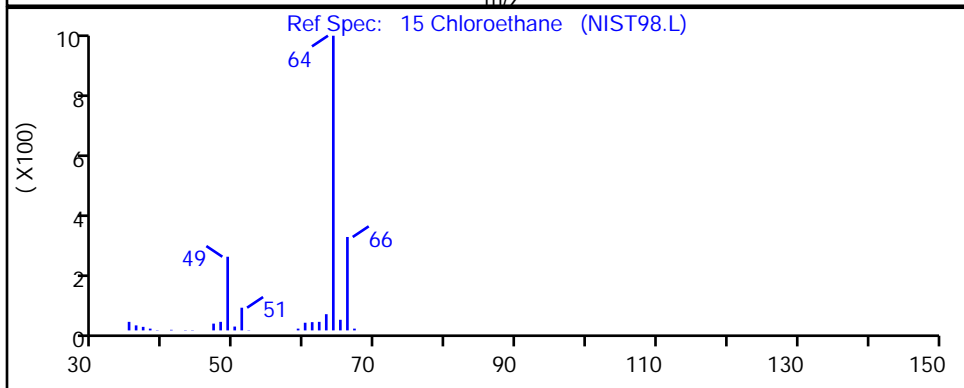
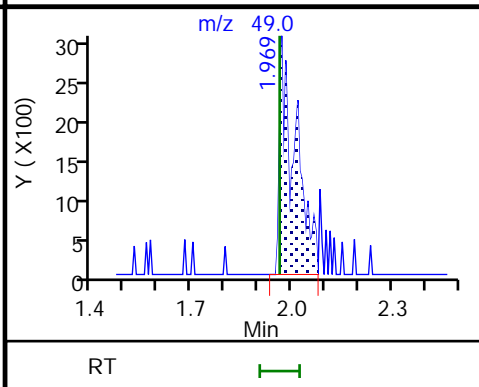
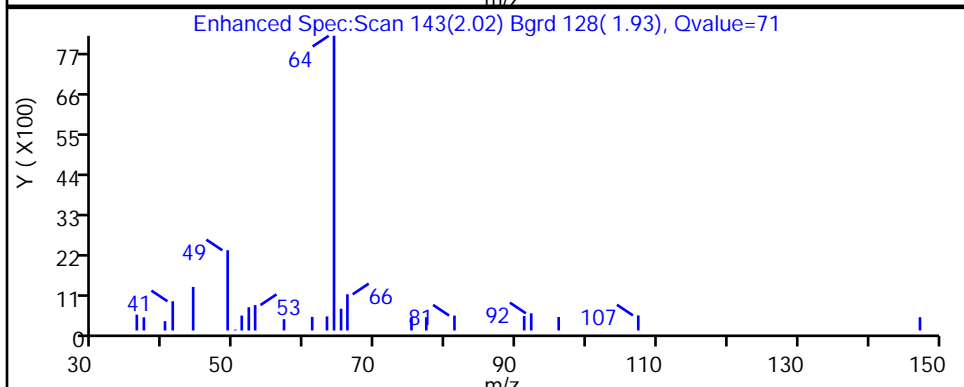
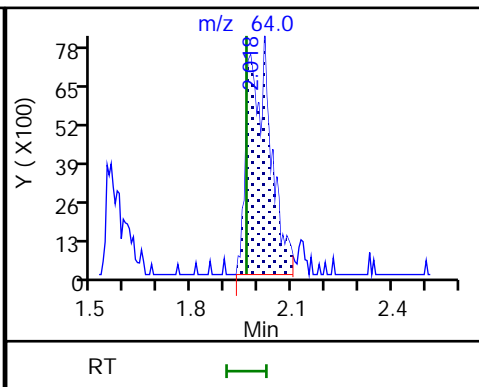
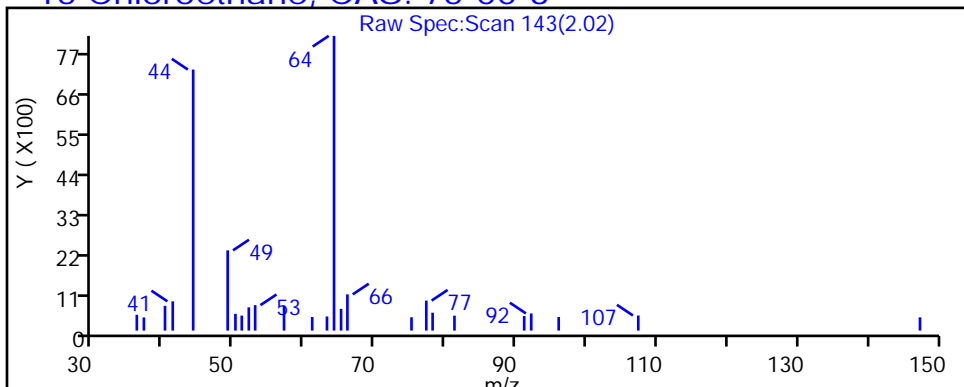
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

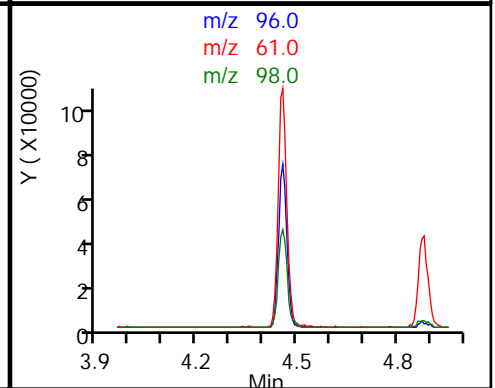
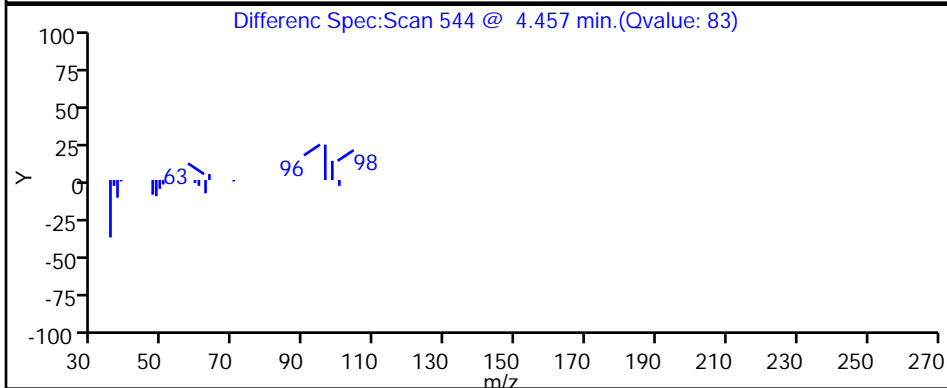
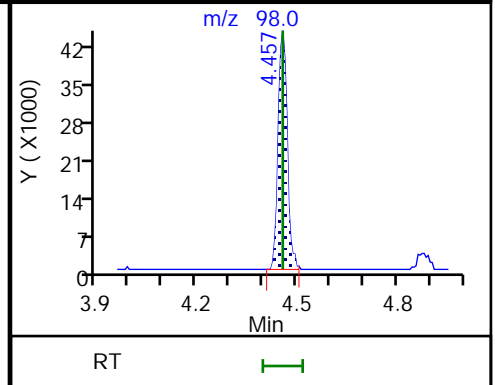
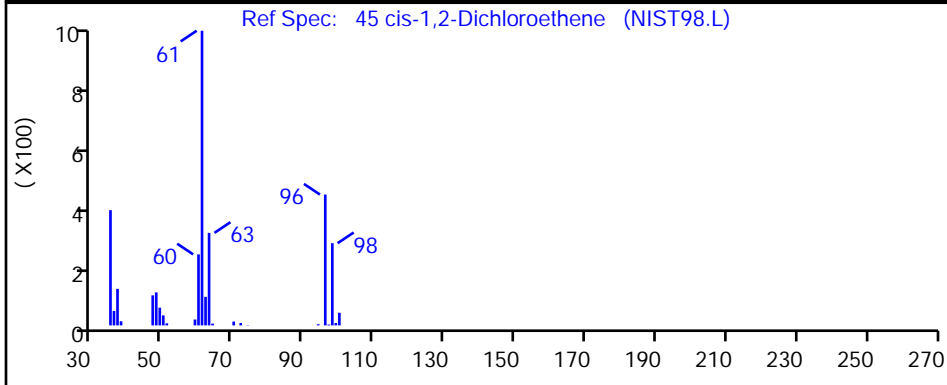
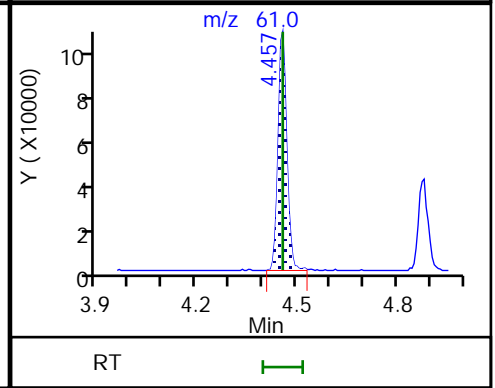
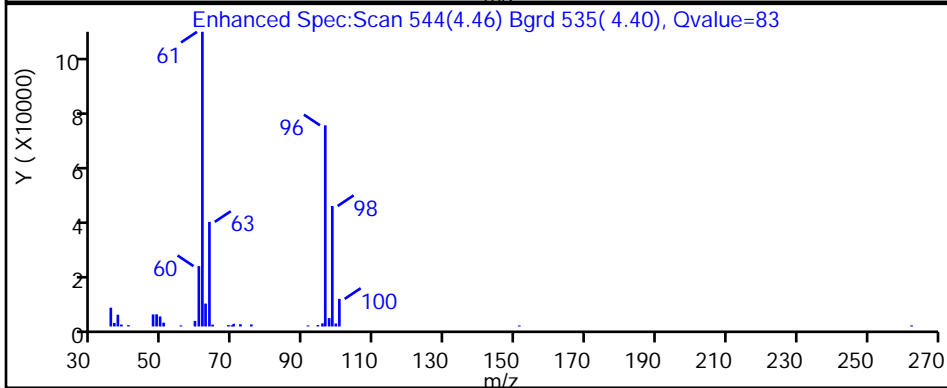
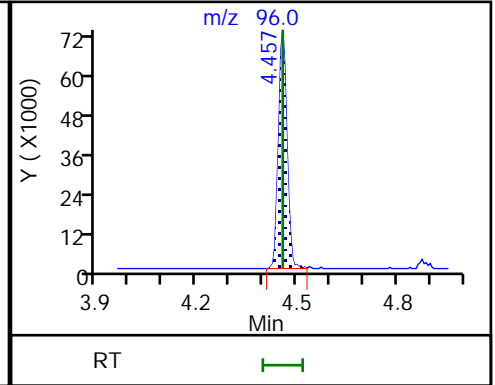
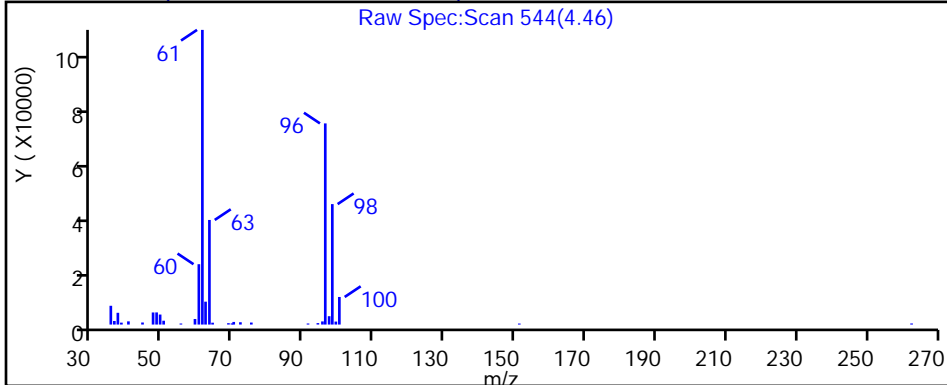
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

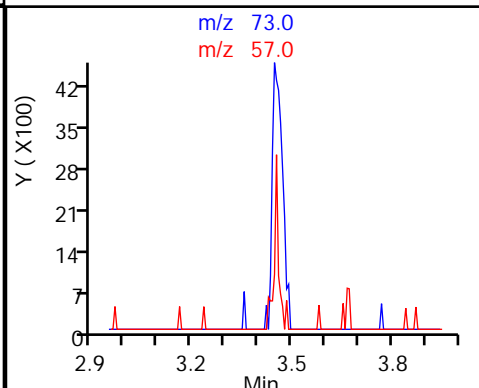
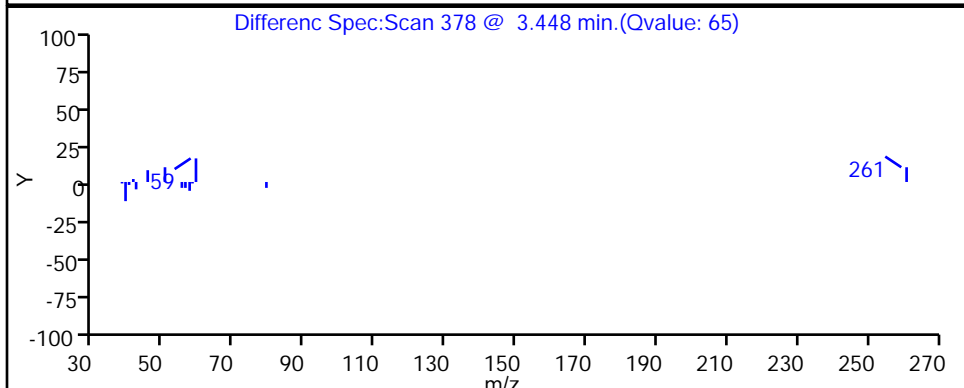
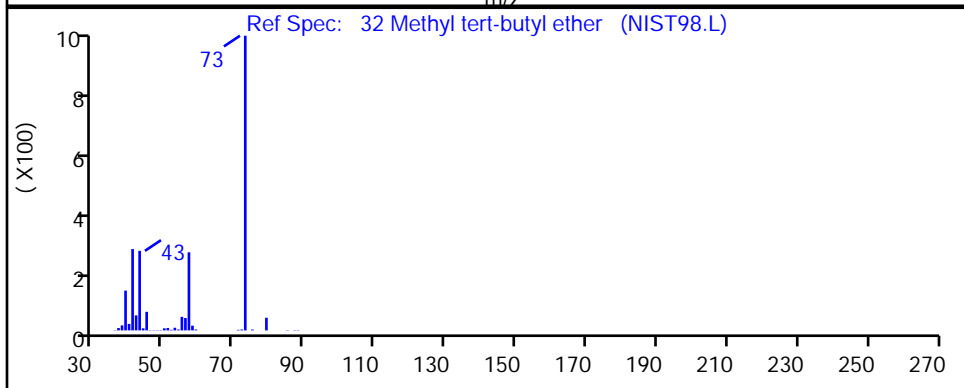
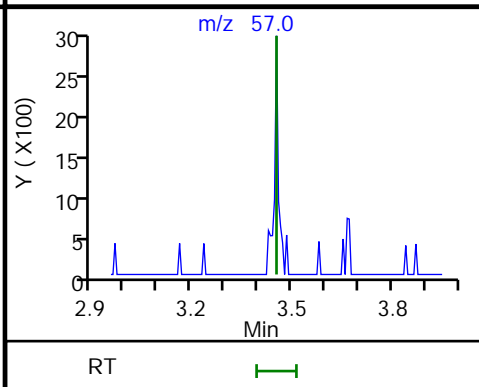
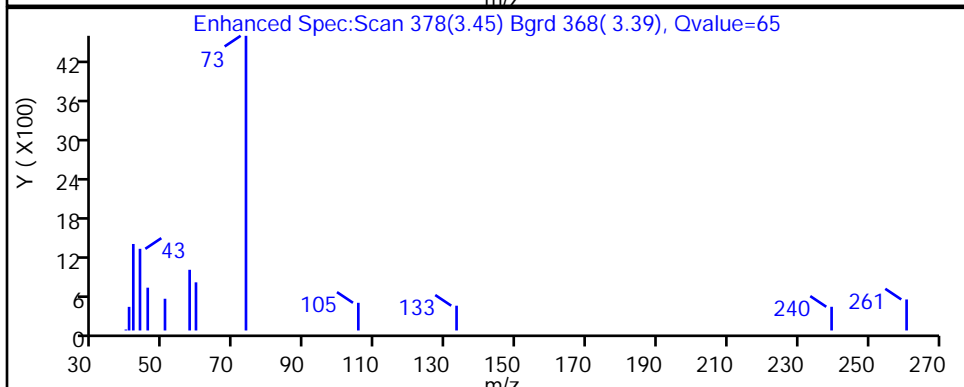
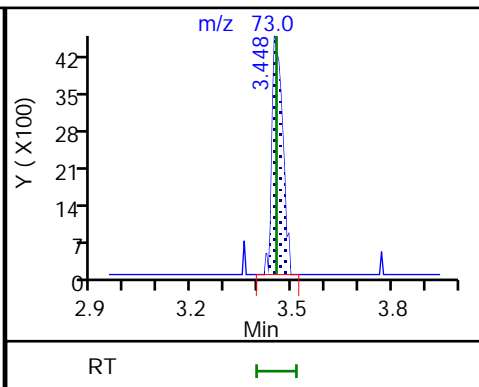
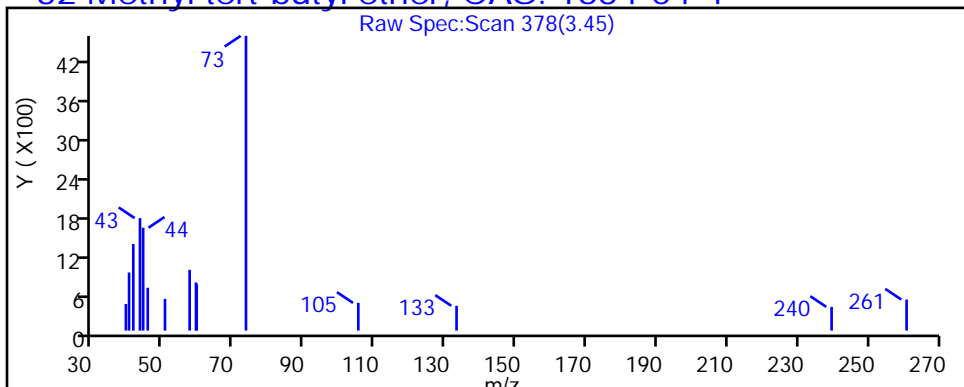
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

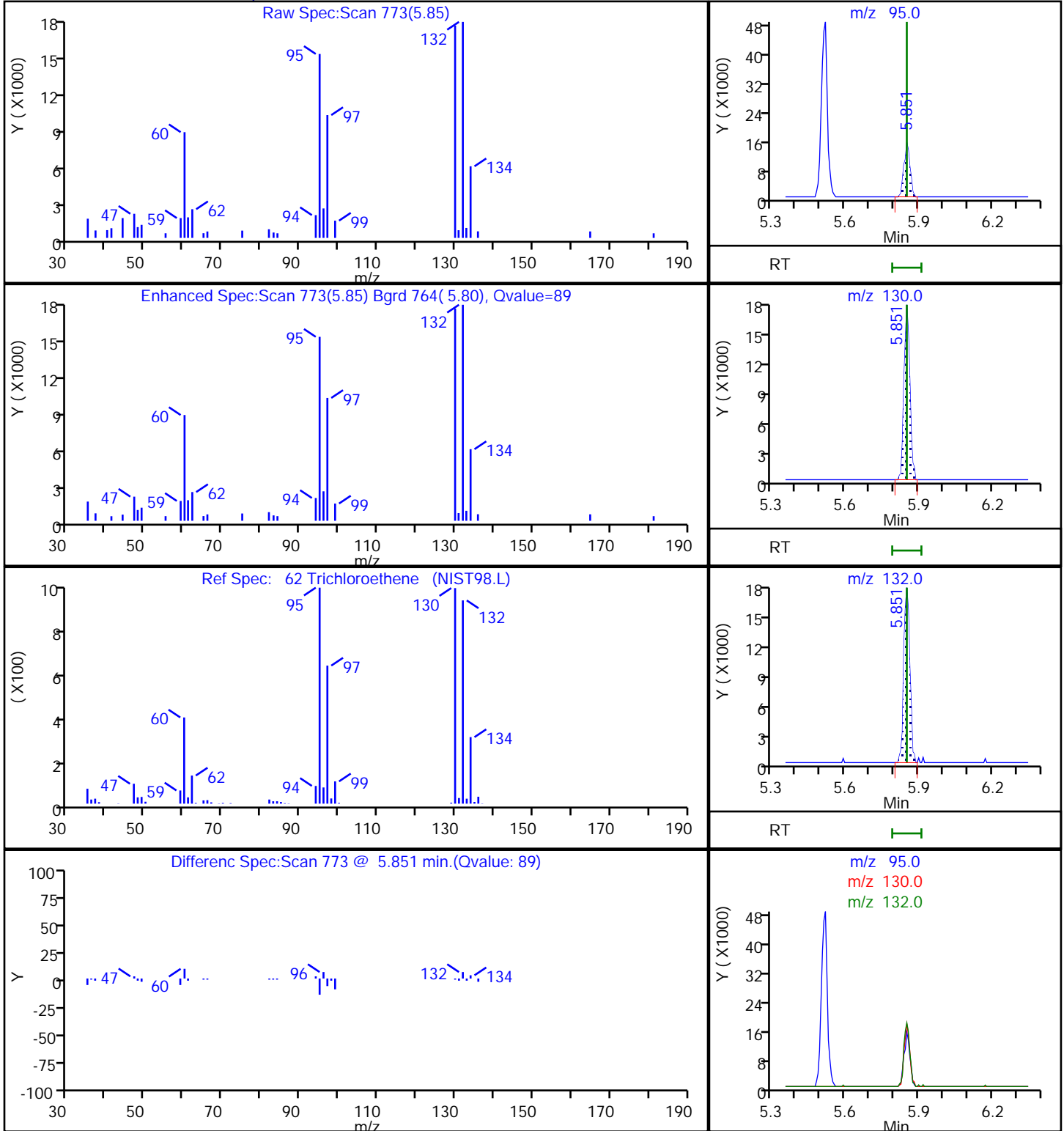
32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D
Injection Date: 23-Jun-2018 16:30:30 Instrument ID: HP5973S
Lims ID: 480-137527-B-3 Lab Sample ID: 480-137527-3
Client ID: DUPE
Operator ID: RB ALS Bottle#: 18 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

62 Trichloroethene, CAS: 79-01-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

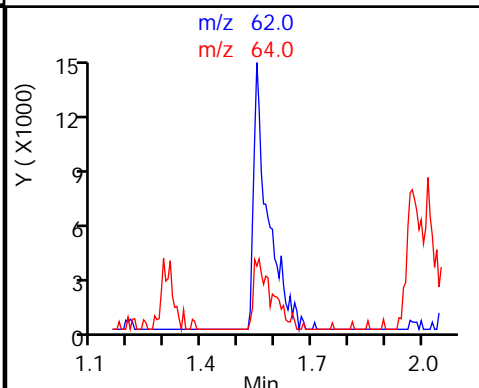
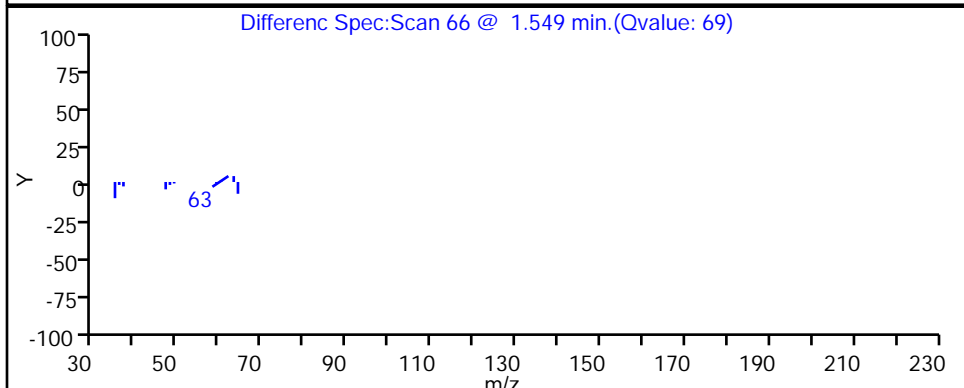
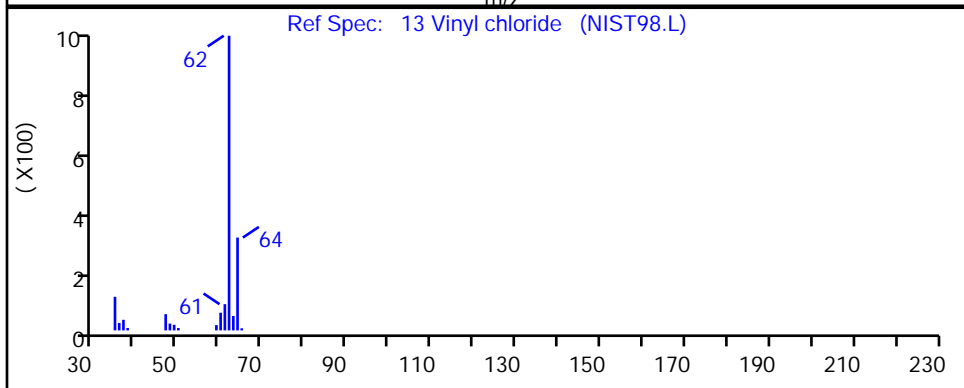
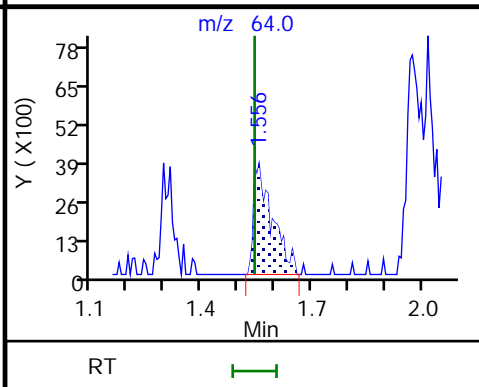
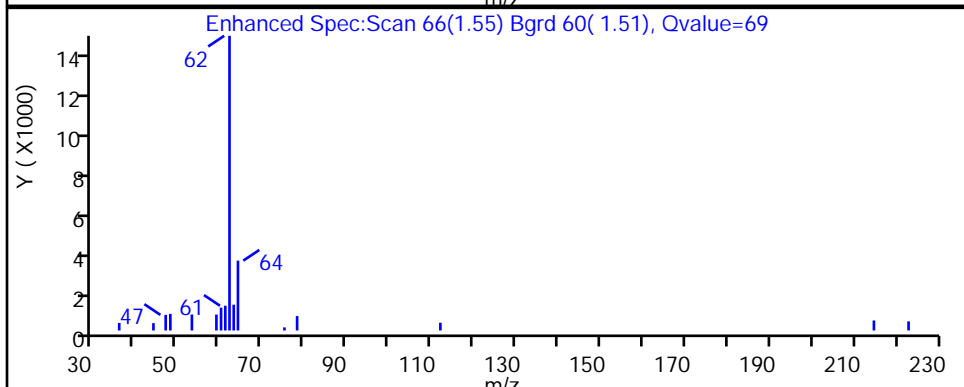
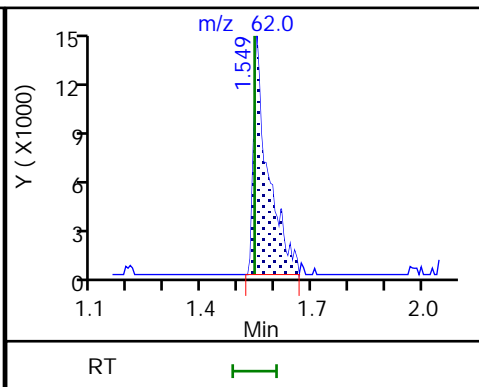
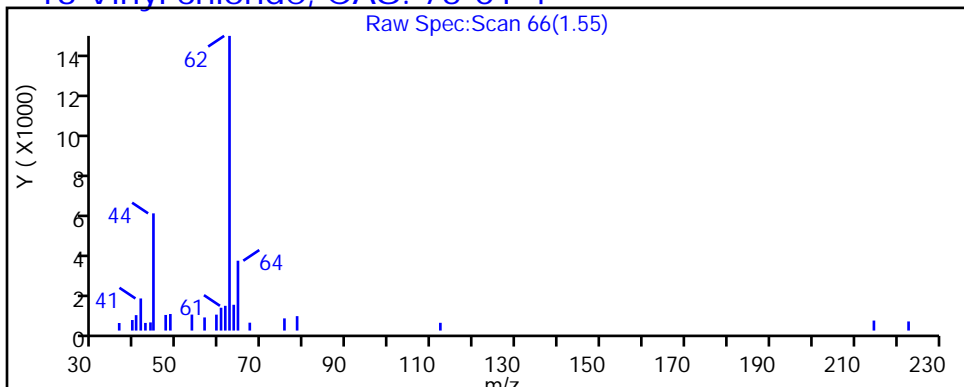
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2657.D

Injection Date: 23-Jun-2018 16:30:30

Instrument ID: HP5973S

Lims ID: 480-137527-B-3

Lab Sample ID: 480-137527-3

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 18 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

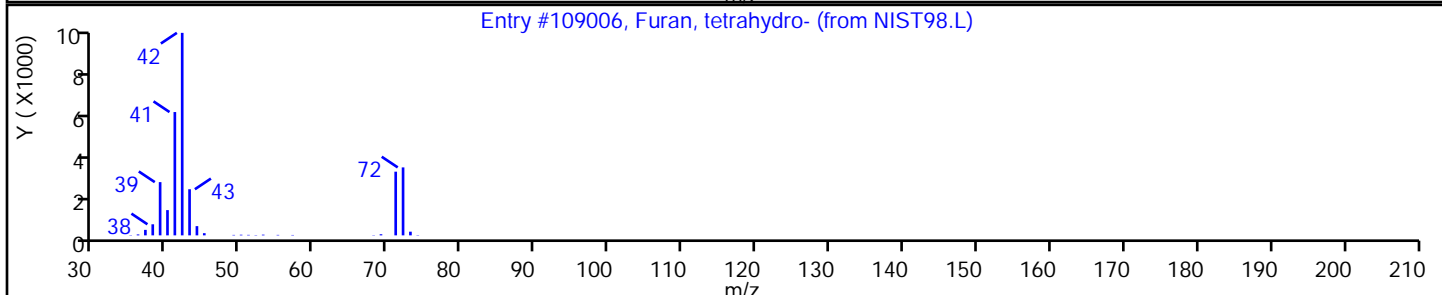
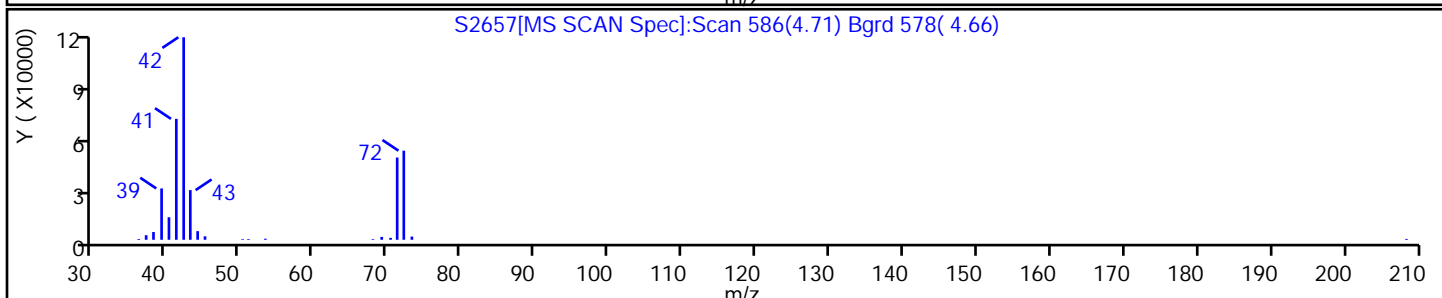
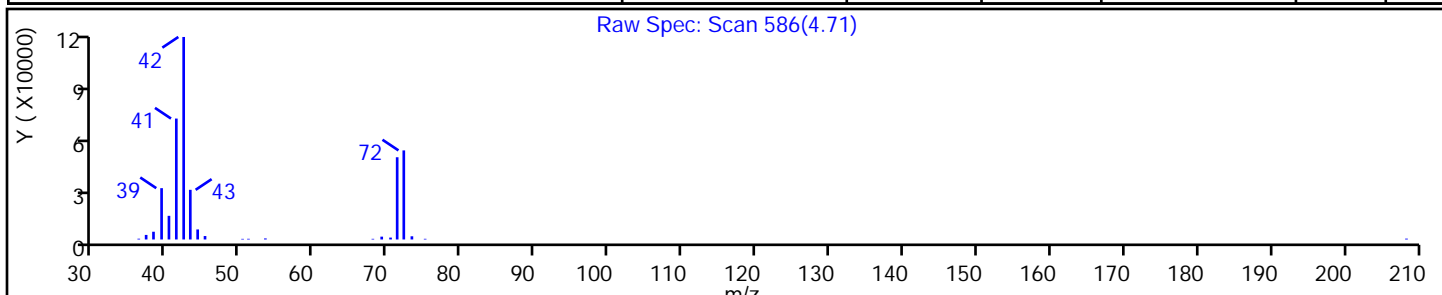
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Furan, tetrahydro-	109-99-9	NIST98.L	109006	C4H8O	72	91



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.0665 1.2589	0.9361 1.4448	0.9453 1.2775	1.4718	1.2318	Ave		1.2041		0.1000	17.1		20.0				
Chloromethane	1.7623 1.9306	1.9509 1.9553	1.9350 1.8158	2.0155	1.9350	Ave		1.9125		0.1000	4.3		20.0				
Vinyl chloride	1.6568 1.6908	1.5657 1.8763	1.6230 1.6849	1.8470	1.6612	Ave		1.7007		0.1000	6.3		20.0				
Butadiene	1.8620 1.6494	1.7965 1.8564	1.7020 1.6775	1.9156	1.7306	Ave		1.7737			5.5		20.0				
Bromomethane	0.9917 0.8747	0.9861 0.9359	0.8069 0.8729	0.9617	0.8612	Ave		0.9114		0.1000	7.3		20.0				
Chloroethane	++++ 1.0362	1.0152 1.1005	0.9560 1.0175	1.1014	0.9788	Ave		1.0294		0.1000	5.4		20.0				
Trichlorofluoromethane	1.3514 1.6874	1.2497 1.9145	1.5084 1.7620	1.9155	1.5032	Ave		1.6115		0.1000	15.4		20.0				
Dichlorofluoromethane	2.8785 2.0907	2.4003 2.1919	1.9931 2.1039	2.4123	1.9710	Ave		2.2552			13.4		20.0				
Ethyl ether	1.3529 1.4756	1.2888 1.5496	1.3634 1.4488	1.5277	1.4614	Ave		1.4335			6.3		20.0				
Acrolein	0.2835 0.2882	0.2776 0.2993	0.2421 0.2849	0.2616	0.2595	Ave		0.2746			6.8		20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.9341	0.5111 0.9461	0.7470 1.0076	1.0940	1.0244	Lin1	-0.369	0.9933		0.1000				0.9980		0.9900	
1,1-Dichloroethene	0.8917 1.1648	0.7505 1.2089	1.1564 1.2140	1.2655	1.1826	Ave		1.1043		0.1000	16.5		20.0				
Acetone	++++ 0.4184	0.5585 0.4700	0.5654 0.4500	0.4830	0.4216	Ave		0.4810		0.1000	12.5		20.0				
Iodomethane	1.2009 1.7612	1.2126 1.8969	1.4497 1.8973	1.7945	1.7071	Ave		1.6150			17.9		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
Carbon disulfide	3.3950 3.5530	2.7999 3.8268	3.4659 3.7169	3.9148	3.4911	Ave		3.5204		0.1000	9.8		20.0				
Allyl chloride	2.6942 2.0957	1.6922 2.1931	2.1081 2.1248	2.3194	1.9001	Ave		2.1409			13.7		20.0				
Methyl acetate	1.3560 1.1196	1.1715 1.2779	1.4665 1.2157	1.3271	1.1675	Ave		1.2627		0.1000	9.2		20.0				
Methylene Chloride	6.4996 1.4449	3.4907 1.4330	2.6242 1.3806	1.9329	1.5594	Lin1	2.4473	1.3618		0.1000				0.9990		0.9900	
2-Methyl-2-propanol	++++ 0.1557	0.1363 0.1769	0.1472 0.1960	0.1598	0.1689	Ave		0.1630			12.1		20.0				
Methyl tert-butyl ether	4.1375 4.2209	3.7459 4.3401	4.1817 4.1626	4.2685	4.0491	Ave		4.1383		0.1000	4.4		20.0				
trans-1,2-Dichloroethene	1.0514 1.2945	1.1406 1.3219	1.2992 1.2872	1.4285	1.2872	Ave		1.2638		0.1000	9.2		20.0				
Acrylonitrile	0.6220 0.6716	0.6885 0.7132	0.6792 0.6639	0.6531	0.6780	Ave		0.6712			4.0		20.0				
Hexane	2.2114 2.2652	2.0959 2.4442	2.1205 2.4309	2.7772	2.2960	Ave		2.3302			9.5		20.0				
1,1-Dichloroethane	2.5389 2.6549	2.3884 2.7780	2.7132 2.6860	2.8305	2.7092	Ave		2.6624		0.2000	5.3		20.0				
Vinyl acetate	2.9127 3.1221	3.1111 3.0557	3.1275 2.8332	3.2000	3.1953	Ave		3.0697			4.3		20.0				
2,2-Dichloropropane	1.3363 1.5114	1.2926 1.5386	1.4757 1.5408	1.6651	1.4425	Ave		1.4754			8.1		20.0				
cis-1,2-Dichloroethene	1.3250 1.5154	1.2193 1.5485	1.3895 1.5021	1.5820	1.5363	Ave		1.4523		0.1000	8.8		20.0				
2-Butanone (MEK)	0.8114 0.7283	0.7148 0.7480	0.7158 0.7457	0.7321	0.7126	Ave		0.7386		0.1000	4.4		20.0				
Chlorobromomethane	0.5523 0.7433	0.6218 0.7417	0.7106 0.7173	0.7721	0.6916	Ave		0.6939			10.5		20.0				
Tetrahydrofuran	0.5100 0.5143	0.5916 0.5038	0.4911 0.5042	0.4629	0.4823	Ave		0.5075			7.5		20.0				
Chloroform	2.2184 2.2511	2.3256 2.3574	2.3450 2.2735	2.5367	2.2740	Ave		2.3227		0.2000	4.3		20.0				
1,1,1-Trichloroethane	1.6807 1.7550	1.4931 1.8613	1.6427 1.8405	1.8985	1.6762	Ave		1.7310		0.1000	7.8		20.0				
Cyclohexane	2.1504 2.4488	1.8163 2.5917	2.1665 2.6545	2.4471	2.3534	Ave		2.3286		0.1000	11.8		20.0				
Carbon tetrachloride	1.1105 1.5222	1.1651 1.6554	1.5214 1.6186	1.5803	1.4305	Ave		1.4505		0.1000	14.1		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.8731 1.7168	1.4205 1.8558	1.8938 1.8328	1.8298	1.6916	Ave		1.7643			8.9		20.0				
Benzene	5.1942 5.3896	4.7117 5.5287	5.2823 5.2725	5.7352	5.3147	Ave		5.3036		0.5000	5.6		20.0				
Isobutyl alcohol	0.0671 0.0668	0.0622 0.0750	0.0700 0.0764	0.0628	0.0685	Ave		0.0686			7.5		20.0				
1,2-Dichloroethane	2.0805 2.1099	2.0699 2.1793	2.2191 2.0867	2.2540	2.1430	Ave		2.1428		0.1000	3.2		20.0				
n-Heptane	2.3209 2.1075	1.9690 2.1545	2.1019 2.1373	2.4588	2.0887	Ave		2.1673			7.0		20.0				
Trichloroethene	1.3177 1.3771	1.1544 1.4170	1.3587 1.4162	1.5440	1.3610	Ave		1.3683		0.2000	8.0		20.0				
Methylcyclohexane	1.7990 2.1533	1.5990 2.3276	1.9460 2.2773	2.4588	2.1083	Ave		2.0837		0.1000	13.8		20.0				
1,2-Dichloropropane	1.4365 1.5812	1.5517 1.6696	1.6624 1.5781	1.6836	1.6365	Ave		1.6000		0.1000	5.1		20.0				
Dibromomethane	0.7897 0.8553	0.7556 0.8807	0.7750 0.8684	0.8635	0.8943	Ave		0.8353		0.1000	6.4		20.0				
1,4-Dioxane	++++ 0.0058	0.0019 0.0058	0.0036 0.0055	0.0043	0.0058	Lin1	-0.075	0.0057						0.9980		0.9900	
Bromodichloromethane	1.3255 1.7458	1.3019 1.8412	1.4534 1.8150	1.7492	1.6384	Ave		1.6088		0.2000	13.6		20.0				
2-Chloroethyl vinyl ether	0.8987 1.1430	1.0935 1.1740	0.9247 1.1354	1.0863	1.0857	Ave		1.0677			9.5		20.0				
cis-1,3-Dichloropropene	1.7113 2.1494	1.7018 2.2435	1.9021 2.1801	2.1612	2.1330	Ave		2.0228		0.2000	10.8		20.0				
4-Methyl-2-pentanone (MIBK)	0.8176 0.7887	0.7729 0.7775	0.8747 0.7119	0.8128	0.8291	Ave		0.7981		0.1000	6.0		20.0				
Toluene	1.4932 1.6238	1.5773 1.7040	1.7421 1.7063	1.7553	1.6931	Ave		1.6619		0.4000	5.4		20.0				
trans-1,3-Dichloropropene	0.7668 0.9648	0.7879 1.0144	0.8905 1.0454	0.8818	0.9722	Ave		0.9155		0.1000	11.1		20.0				
Ethyl methacrylate	0.6799 0.9439	0.8300 0.9611	0.9006 0.9825	0.9328	0.9491	Ave		0.8975			11.1		20.0				
1,1,2-Trichloroethane	0.4116 0.4978	0.4735 0.5176	0.5613 0.5217	0.5195	0.5023	Ave		0.5007		0.1000	8.8		20.0				
Tetrachloroethene	0.6925 0.6880	0.6277 0.7351	0.6985 0.7322	0.7337	0.7060	Ave		0.7017		0.2000	5.1		20.0				
1,3-Dichloropropane	0.9225 1.0482	1.0197 1.0980	1.1380 1.0980	1.0186	1.1041	Ave		1.0559			6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.5897 0.5765	0.5749 0.5711	0.6269 0.5367	0.6138	0.6103	Ave		0.5875			0.1000	4.9	20.0				
Dibromochloromethane	0.3992 0.6085	0.4622 0.6535	0.5746 0.6922	0.5631	0.6019	Ave		0.5694			0.1000	17.0	20.0				
1,2-Dibromoethane	0.5204 0.6216	0.6798 0.6443	0.6333 0.6522	0.6498	0.6452	Ave		0.6308				7.6	20.0				
Chlorobenzene	1.8118 1.7992	1.5610 1.8673	1.9020 1.8548	1.9177	1.8555	Ave		1.8212			0.5000	6.2	20.0				
Ethylbenzene	2.6561 2.9895	2.6563 3.0996	3.2172 2.9793	3.2411	3.1222	Ave		2.9952			0.1000	7.6	20.0				
1,1,1,2-Tetrachloroethane	0.4433 0.6070	0.5314 0.6466	0.6090 0.6704	0.5787	0.6253	Ave		0.5890				12.3	20.0				
m,p-Xylene	1.2373 1.1561	1.1556 1.2284	1.2508 1.2629	1.2609	1.1952	Ave		1.2184			0.1000	3.6	20.0				
o-Xylene	1.0045 1.1613	0.9780 1.2163	1.2332 1.2250	1.2192	1.2136	Ave		1.1564			0.3000	9.0	20.0				
Styrene	1.8152 2.0224	1.6328 2.1117	2.0436 2.1105	2.0942	2.0471	Ave		1.9847			0.3000	8.6	20.0				
Bromoform	0.2877 0.3850	0.3141 0.4304	0.3156 0.4701	0.3317	0.3750	Ave		0.3637			0.1000	17.4	20.0				
Isopropylbenzene	2.8187 3.2334	2.6604 3.2502	3.2717 3.1740	3.5120	3.2946	Ave		3.1519			0.1000	8.8	20.0				
Bromobenzene	0.7185 0.8335	0.6972 0.8144	0.8005 0.8430	0.8368	0.8355	Ave		0.7974				7.2	20.0				
1,1,2,2-Tetrachloroethane	0.8554 0.8631	0.7756 0.8499	0.8473 0.8656	0.9010	0.8934	Ave		0.8564			0.3000	4.4	20.0				
N-Propylbenzene	3.3950 3.7788	3.0422 3.7479	3.7585 3.5471	4.0917	3.8709	Ave		3.6540				8.8	20.0				
1,2,3-Trichloropropane	0.2961 0.2956	0.2105 0.2987	0.2592 0.2930	0.2999	0.3025	Ave		0.2819				11.3	20.0				
trans-1,4-Dichloro-2-butene	++++ 0.3124	0.1809 0.3116	0.2095 ++++	0.2457	0.2760	Lin1	-0.183	0.3127						0.9980		0.9900	
2-Chlorotoluene	0.9499 0.7905	0.6127 0.7783	0.7784 0.7925	0.8076	0.7823	Ave		0.7865				11.5	20.0				
1,3,5-Trimethylbenzene	2.6880 2.7560	2.4032 2.7485	2.7675 2.6995	2.8892	2.9233	Ave		2.7344				5.8	20.0				
4-Chlorotoluene	0.6916 0.8473	0.6714 0.8358	0.8732 0.8485	0.8432	0.8364	Ave		0.8059				9.7	20.0				
tert-Butylbenzene	0.4442 0.6248	0.4824 0.6328	0.5740 0.6377	0.6554	0.6120	Ave		0.5829				13.4	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	2.6497 2.9289	2.2643 2.8720	2.8780 2.7535	3.0114	2.9833	Ave		2.7927			8.7		20.0				
sec-Butylbenzene	3.1348 3.3954	2.7032 3.3821	3.3932 3.2799	3.5159	3.4256	Ave		3.2788			7.9		20.0				
1,3-Dichlorobenzene	1.5074 1.5713	1.3706 1.5679	1.6123 1.5509	1.6125	1.6026	Ave		1.5494		0.6000	5.2		20.0				
4-Isopropyltoluene	2.5737 2.9925	2.1476 2.9966	2.8678 2.8440	3.1091	3.0448	Ave		2.8220			11.3		20.0				
1,4-Dichlorobenzene	1.3127 1.5924	1.5619 1.5765	1.6568 1.5808	1.7201	1.6378	Ave		1.5799		0.5000	7.6		20.0				
n-Butylbenzene	2.1891 2.7229	2.0400 2.6514	2.6980 2.5836	2.8037	2.6684	Ave		2.5446			10.8		20.0				
1,2-Dichlorobenzene	1.3859 1.5321	1.4084 1.5247	1.5498 1.5112	1.6559	1.6346	Ave		1.5253		0.4000	6.2		20.0				
1,2-Dibromo-3-Chloropropane	0.1861 0.1811	0.1318 0.1863	0.1428 0.1854	0.1507	0.1653	Ave		0.1662		0.0500	13.2		20.0				
1,2,4-Trichlorobenzene	0.9478 1.1265	0.9110 1.1573	1.1771 1.1556	1.0821	1.1198	Ave		1.0847		0.2000	9.3		20.0				
Hexachlorobutadiene	0.5332 0.5343	0.3840 0.5453	0.5260 0.5664	0.5353	0.5245	Ave		0.5186			10.8		20.0				
Naphthalene	2.5334 3.2095	2.6074 3.1917	2.9880 3.0480	2.9747	3.1673	Ave		2.9650			8.8		20.0				
1,2,3-Trichlorobenzene	0.7843 1.0767	0.8587 1.0732	0.9477 1.1030	1.0666	1.0923	Ave		1.0003			12.2		20.0				
Dibromofluoromethane (Surr)	1.1790 1.1858	1.1799 1.2727	1.1679 1.2115	1.2117	1.1648	Ave		1.1967			3.0		20.0				
1,2-Dichloroethane-d4 (Surr)	0.7678 0.7917	0.7976 0.8218	0.7565 0.7458	0.8347	0.7500	Ave		0.7832			4.3		20.0				
Toluene-d8 (Surr)	2.4473 2.3886	2.4261 2.4587	2.5049 2.3969	2.4292	2.4265	Ave		2.4348			1.5		20.0				
4-Bromofluorobenzene (Surr)	0.7361 0.7460	0.7584 0.7652	0.7525 0.7580	0.7431	0.7227	Ave		0.7477			1.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4246 248186	7348 556127	15348 1042243	57375	100661	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	7016 380591	15313 752596	31418 1481396	78570	158120	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	6596 333324	12290 722212	26352 1374584	72004	135746	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7413 325163	14101 714525	27634 1368549	74679	141422	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3948 172433	7740 360223	13102 712144	37490	70373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 204270	7969 423584	15522 830061	42938	79988	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5380 332653	9809 736903	24492 1437497	74675	122840	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11460 412155	18841 843653	32362 1716432	94040	161069	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5386 290892	10116 596459	22137 1181934	59556	119421	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	5643 284078	10896 575962	19651 1162249	50983	106044	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin1	++++ 184140	4012 364156	12129 822020	42648	83709	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	3550 229631	5891 465301	18776 990419	49334	96639	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 412424	21919 904483	45897 1835772	94147	172269	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4781 347195	9518 730136	23539 1547832	69957	139498	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13516 700429	21977 1472959	56275 3032330	152614	285284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	10726 413143	13283 844115	34229 1733446	90419	155269	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	10797 441430	18391 983740	47623 1983551	103471	190812	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	25876 284846	27400 551561	42609 1126336	75350	127431	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	++++ 307003	10697 680866	23908 1598960	62295	137981	++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	16472 832097	29403 1670515	67897 3395940	166404	330882	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4186 255195	8953 508786	21095 1050113	55688	105184	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	24762 1323936	54039 2745107	110281 5416558	254614	554059	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	8804 446557	16451 940801	34429 1983165	108267	187621	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	10108 523385	18747 1069251	44053 2191279	110345	221389	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	23192 1230989	48840 2352331	101560 4622714	249498	522220	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5320 297960	10146 592229	23960 1257016	64910	117878	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5275 298747	9571 596033	22561 1225447	61673	125542	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	16151 717854	28054 1439504	58111 3041661	142709	291158	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2199 146527	4881 285479	11538 585187	30101	56519	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	4061 202767	9288 387841	15949 822605	36094	78819	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	8832 443774	18254 907363	38075 1854730	98890	185827	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6691 345970	11720 716429	26672 1501541	74012	136975	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	8561 482758	14257 997545	35177 2165602	95397	192312	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4421 300091	9145 637175	24702 1320508	61607	116898	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	7457 338452	11150 714312	30749 1495256	71332	138232	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	20679 1062500	36984 2128022	85767 4301395	223580	434302	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	6683 329152	12199 721955	28420 1557611	61251	139911	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8283 415950	16247 838833	36030 1702374	87871	175124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	9240 415475	15455 829266	34128 1743611	95852	170684	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5246 271489	9061 545392	22060 1155378	60191	111214	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	7162 424498	12551 895898	31597 1857834	95854	172282	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	5719 311720	12180 642638	26992 1287446	65633	133728	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	3144 168616	5931 338999	12583 708426	33662	73081	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	++++ 46908	597 91625	2267 176888	6969	18780	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	5277 344167	10219 708669	23598 1480734	68190	133887	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3578 225325	8583 451891	15014 926261	42348	88719	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6813 423733	13358 863532	30883 1778596	84252	174306	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	32292 1601823	59826 3068632	137972 5759555	326171	670794	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	11795 659595	24418 1345091	54960 2760907	140875	273964	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6057 391909	12197 800744	28095 1691433	70774	157325	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5371 383401	12849 758693	28412 1589664	74867	153587	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3251 202209	7331 408565	17708 844173	41694	81284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5470 279490	9718 580239	22036 1184748	58888	114249	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7287 425777	15786 866770	35902 1776603	81753	178659	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	23291 1170919	44500 2254226	98893 4341846	246316	493778	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3153 247163	7156 515833	18127 1120056	45191	97396	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4111 252512	10524 508600	19979 1055354	52152	104411	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14312 730835	24166 1474031	60005 3001103	153908	300247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	20981 1214363	41123 2446781	101499 4820637	260118	505219	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3502 246580	8227 510400	19212 1084784	46444	101180	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	9774 469623	17890 969691	39460 2043355	101199	193403	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	7935 471745	15140 960148	38904 1982170	97848	196385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14339 821536	25278 1666910	64472 3414832	168072	331254	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2273 156408	4863 339740	9957 760638	26624	60675	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	20648 1180615	39437 2412885	97764 4783571	261022	487020	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	5263 304349	10335 604551	23921 1270447	62196	123511	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6266 315135	11498 630975	25318 1304499	66963	132068	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	24869 1379737	45097 2782295	112308 5345840	304106	572209	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2169 107926	3120 221749	7744 441615	22292	44716	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	++++ 114077	2682 231344	6261 ++++	18263	40802	++++ 25.0	1.00 50.0	2.00 ++++	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6958 288633	9082 577783	23261 1194322	60025	115644	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19690 1006297	35625 2040375	82695 4068375	214731	432135	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	5066 309390	9952 620467	26092 1278707	62670	123635	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3254 228134	7151 469785	17151 961000	48709	90461	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19410 1069434	33566 2132089	85998 4149841	223814	441006	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	22963 1239742	40072 2510799	101392 4943148	261311	506385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	11042 573712	20317 1163942	48178 2337298	119848	236904	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	18853 1092636	31836 2224584	85693 4286221	231080	450095	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,4-Dichlorobenzene	DCBd 4	Ave	9616 581426	23153 1170382	49506 2382476	127844	242101	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16036 994221	30240 1968301	80619 3893665	208379	394458	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10152 559407	20878 1131910	46309 2277520	123068	241629	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1363 66108	1954 138297	4266 279459	11203	24435	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	6943 411331	13505 859177	35174 1741646	80426	165528	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3906 195098	5693 404793	15718 853596	39788	77538	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	18558 1171879	38651 2369399	89284 4593666	221088	468207	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5745 393148	12729 796689	28319 1662277	79276	161462	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	234690 233776	231529 244934	237036 247091	236175	237971	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152837 156084	156518 158160	153545 152101	162701	153221	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	966595 970258	938964 970429	987838 969583	974777	981631	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	290734 303043	293518 302035	296734 306600	298183	292377	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Jun-2018 13:51:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0072482-005
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:34 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 17:24:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	199059	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394964	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	366264	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	57	234690	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	152837	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	966595	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	290734	25.0	24.6	
10 Dichlorodifluoromethane	85	1.300	1.282	0.018	1	4246	0.5000	0.4429	
12 Chloromethane	50	1.464	1.464	0.000	34	7016	0.5000	0.4607	
13 Vinyl chloride	62	1.562	1.549	0.013	21	6596	0.5000	0.4871	a
151 Butadiene	54	1.598	1.574	0.024	52	7413	0.5000	0.5249	Ma
14 Bromomethane	94	1.878	1.872	0.006	62	3948	0.5000	0.5440	
15 Chloroethane	64		1.969				ND	ND	U
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	31	5380	0.5000	0.4193	M
16 Dichlorofluoromethane	67	2.200	2.194	0.006	55	11460	0.5000	0.6382	Ma
18 Ethyl ether	59	2.498	2.492	0.006	52	5386	0.5000	0.4719	
20 Acrolein	56	2.693	2.687	0.006	32	5643	2.50	2.58	M
21 1,1,2-Trichloro-1,2,2-trif	101		2.705				ND	ND	U
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	28	3550	0.5000	0.4037	M
23 Acetone	43	2.851	2.851	0.000	93	13929	2.50	3.64	Ma
25 Iodomethane	142	2.894	2.894	0.000	16	4781	0.5000	0.3718	a
26 Carbon disulfide	76	2.918	2.918	0.000	85	13516	0.5000	0.4822	M
28 3-Chloro-1-propene	41	3.088	3.089	0.000	37	10726	0.5000	0.6292	M
27 Methyl acetate	43	3.143	3.143	0.000	85	10797	1.00	1.07	M
30 Methylene Chloride	84	3.253	3.253	0.000	91	25876	0.5000	0.5893	M
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	57	3836	5.00	2.96	M
32 Methyl tert-butyl ether	73	3.460	3.454	0.006	53	16472	0.5000	0.4999	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	60	4186	0.5000	0.4160	
33 Acrylonitrile	53	3.539	3.539	0.000	92	24762	5.00	4.63	
35 Hexane	57	3.660	3.660	0.000	68	8804	0.5000	0.4745	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	8	10108	0.5000	0.4768	
37 Vinyl acetate	43	3.946	3.952	-0.006	92	23192	1.00	0.9489	
44 2,2-Dichloropropane	77	4.409	4.415	-0.006	37	5320	0.5000	0.4529	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	30	5275	0.5000	0.4562	a
43 2-Butanone (MEK)	43	4.500	4.494	0.006	83	16151	2.50	2.75	
48 Chlorobromomethane	128	4.701	4.695	0.006	63	2199	0.5000	0.3980	
49 Tetrahydrofuran	42	4.719	4.713	0.006	57	4061	1.00	1.00	
50 Chloroform	83	4.768	4.774	-0.006	61	8832	0.5000	0.4776	
51 1,1,1-Trichloroethane	97	4.889	4.877	0.012	31	6691	0.5000	0.4855	
52 Cyclohexane	56	4.877	4.883	-0.006	45	8561	0.5000	0.4617	
55 Carbon tetrachloride	117	5.011	5.011	0.000	55	4421	0.5000	0.3828	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	61	7457	0.5000	0.5308	
57 Benzene	78	5.236	5.236	0.000	33	20679	0.5000	0.4897	
53 Isobutyl alcohol	43	5.272	5.266	0.006	34	6683	12.5	12.2	M
58 1,2-Dichloroethane	62	5.315	5.315	0.000	59	8283	0.5000	0.4855	
59 n-Heptane	43	5.406	5.412	-0.006	62	9240	0.5000	0.5354	M
62 Trichloroethene	95	5.844	5.850	-0.006	50	5246	0.5000	0.4815	
64 Methylcyclohexane	83	5.960	5.960	0.000	57	7162	0.5000	0.4317	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	41	5719	0.5000	0.4489	
67 Dibromomethane	93	6.240	6.234	0.006	69	3144	0.5000	0.4727	
66 1,4-Dioxane	88	6.258	6.246	0.012	8	485	10.0	18.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	23	5277	0.5000	0.4120	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	29	3578	0.5000	0.4209	
72 cis-1,3-Dichloropropene	75	6.812	6.806	0.006	47	6813	0.5000	0.4230	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	87	32292	2.50	2.56	M
74 Toluene	92	7.079	7.085	-0.006	60	11795	0.5000	0.4492	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	54	6057	0.5000	0.4188	M
75 Ethyl methacrylate	69	7.420	7.414	0.006	48	5371	0.5000	0.3788	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	20	3251	0.5000	0.4110	
81 Tetrachloroethene	166	7.621	7.615	0.006	53	5470	0.5000	0.4934	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	50	7287	0.5000	0.4368	
80 2-Hexanone	43	7.797	7.791	0.006	70	23291	2.50	2.51	
83 Chlorodibromomethane	129	7.961	7.961	0.000	7	3153	0.5000	0.3505	
84 Ethylene Dibromide	107	8.071	8.071	0.000	44	4111	0.5000	0.4125	
87 Chlorobenzene	112	8.545	8.539	0.006	18	14312	0.5000	0.4974	
88 Ethylbenzene	91	8.631	8.631	0.000	67	20981	0.5000	0.4434	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	21	3502	0.5000	0.3764	
90 m-Xylene & p-Xylene	106	8.758	8.752	0.006	0	9774	0.5000	0.5078	
91 o-Xylene	106	9.184	9.178	0.006	72	7935	0.5000	0.4343	
92 Styrene	104	9.209	9.209	0.000	67	14339	0.5000	0.4573	
95 Bromoform	173	9.470	9.464	0.006	1	2273	0.5000	0.3956	
94 Isopropylbenzene	105	9.561	9.561	0.000	72	20648	0.5000	0.4471	
101 Bromobenzene	156	9.914	9.908	0.006	52	5263	0.5000	0.4505	
97 1,1,2,2-Tetrachloroethane	83	9.975	9.969	0.006	11	6266	0.5000	0.4994	
99 N-Propylbenzene	91	9.981	9.987	-0.006	84	24869	0.5000	0.4646	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	21	2169	0.5000	0.5251	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	863	0.5000	0.7725	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	55	6958	0.5000	0.6038	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	60	19690	0.5000	0.4915	
105 4-Chlorotoluene	126	10.200	10.200	0.000	44	5066	0.5000	0.4291	
106 tert-Butylbenzene	134	10.474	10.474	0.000	63	3254	0.5000	0.3810	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	48	19410	0.5000	0.4744	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	52	22963	0.5000	0.4780	
111 1,3-Dichlorobenzene	146	10.833	10.827	0.006	46	11042	0.5000	0.4864	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	53	18853	0.5000	0.4560	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	34	9616	0.5000	0.4154	M
115 n-Butylbenzene	91	11.210	11.210	0.000	68	16036	0.5000	0.4301	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	64	10152	0.5000	0.4543	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	1	1363	0.5000	0.5598	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	29	6943	0.5000	0.4369	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	6	3906	0.5000	0.5141	M
121 Naphthalene	128	12.883	12.877	0.006	77	18558	0.5000	0.4272	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	36	5745	0.5000	0.3920	
S 123 Total BTEX	1				0			2.32	
S 125 1,2-Dichloroethene, Total	1				0			0.8722	
S 124 Xylenes, Total	1				0			0.9421	
S 126 1,3-Dichloropropene, Total	1				0			0.8418	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00128	Amount Added: 0.50	Units: uL	
GAS CORP mix_00287	Amount Added: 0.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D

Injection Date: 20-Jun-2018 13:51:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 0.5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

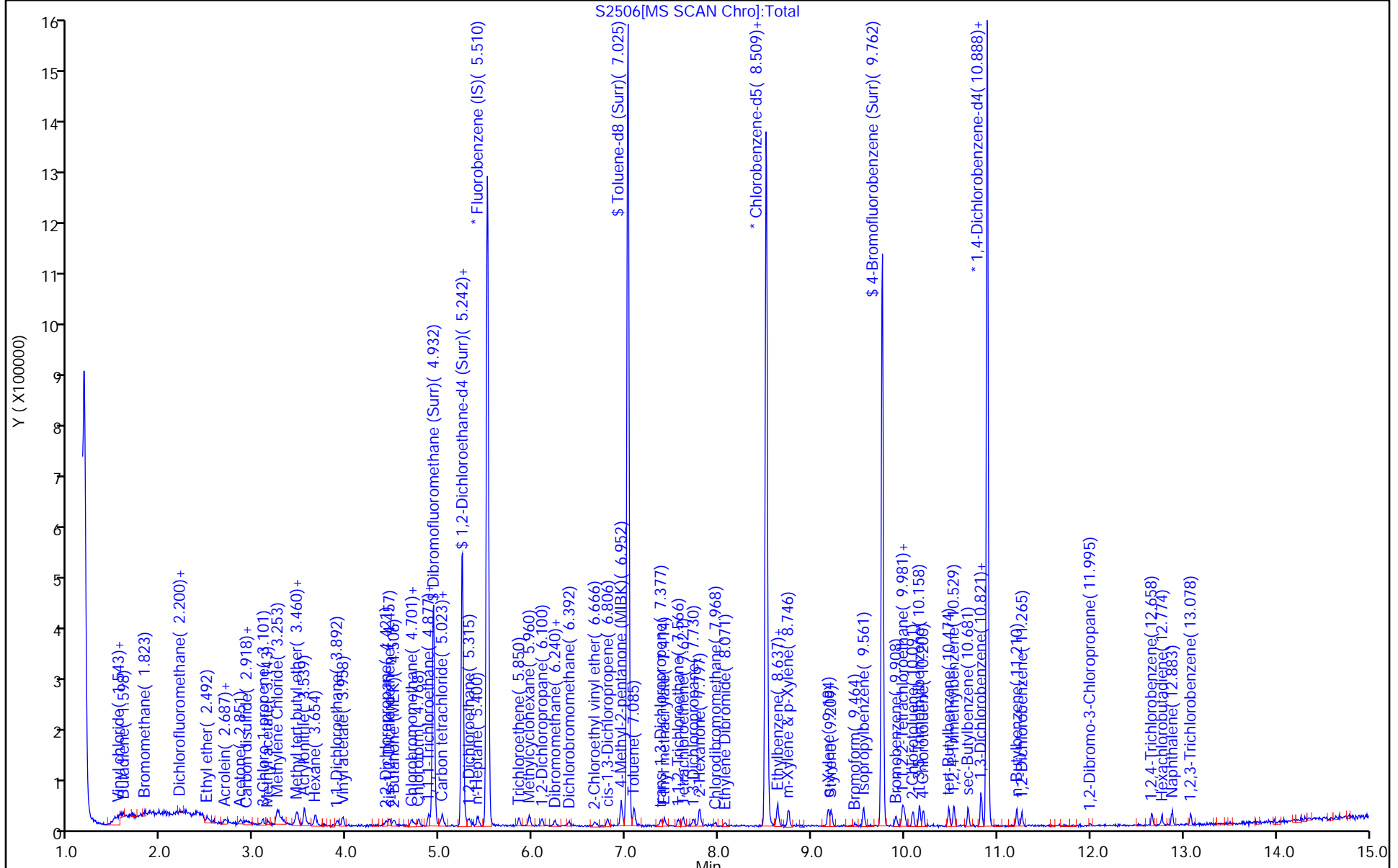
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

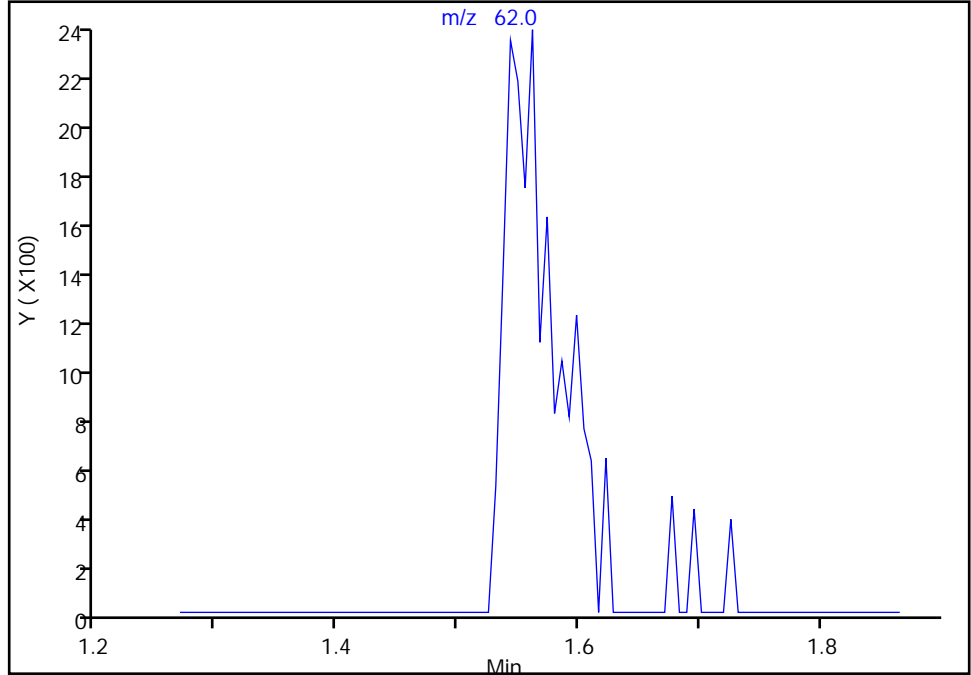
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

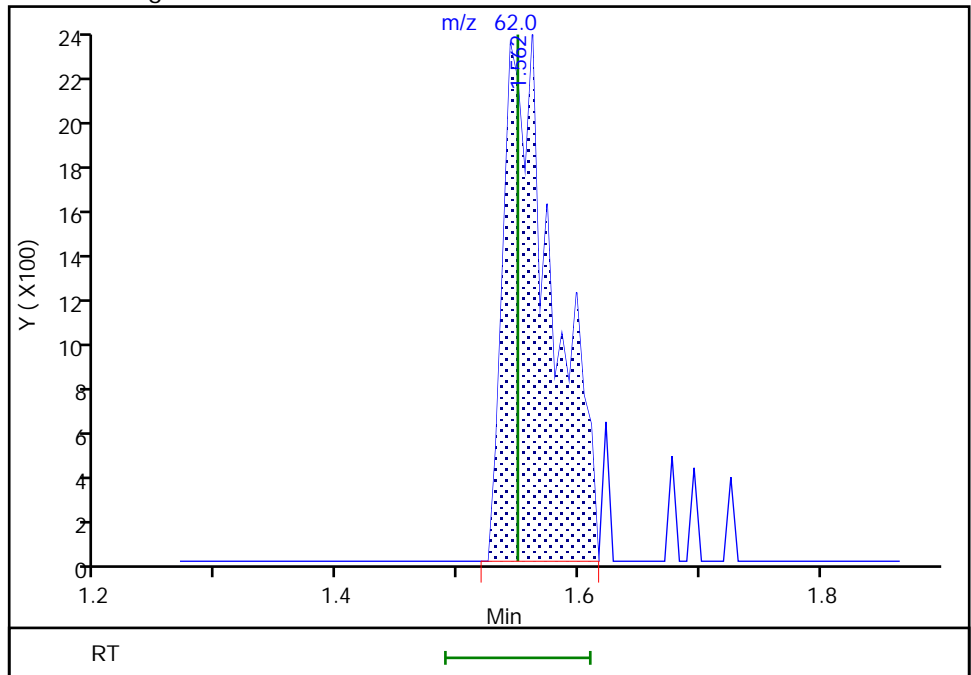
Not Detected
Expected RT: 1.55

Processing Integration Results



RT: 1.56
Area: 6596
Amount: 0.487086
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:40:43
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

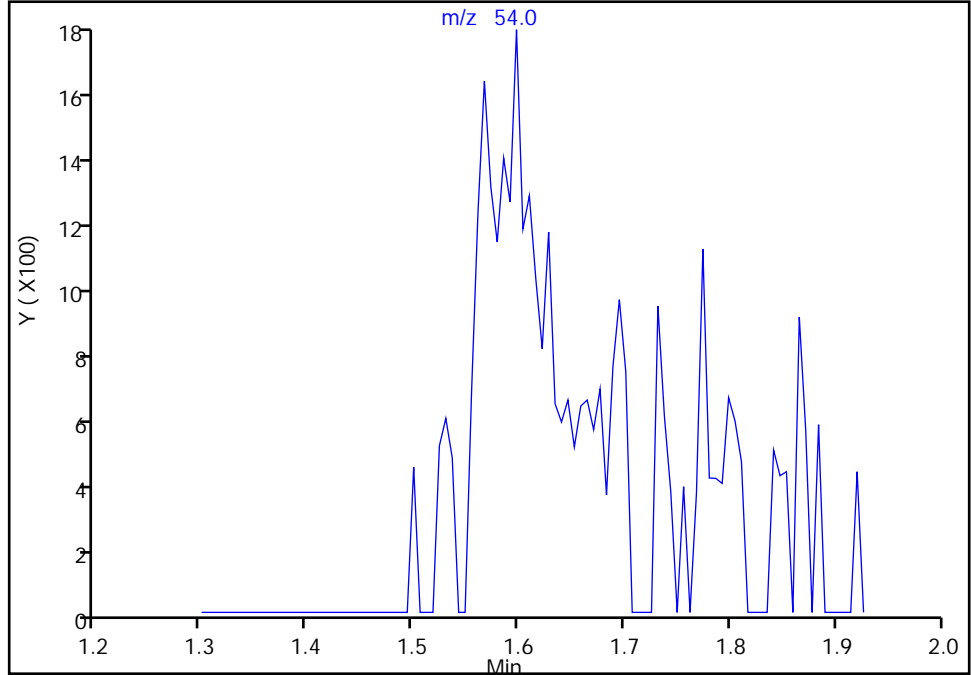
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

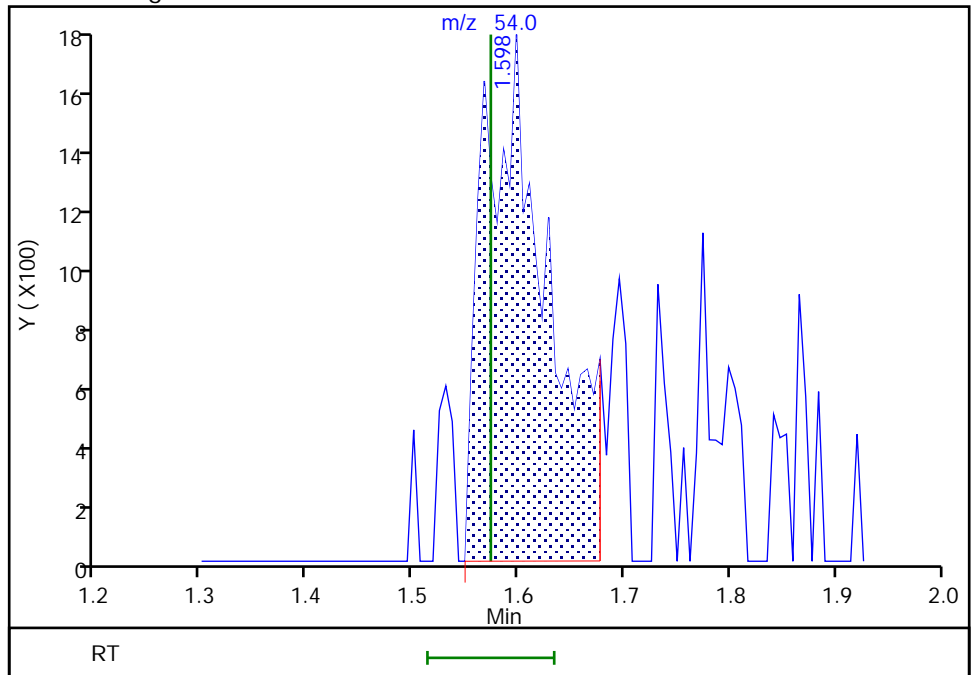
Not Detected
Expected RT: 1.57

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 7413
Amount: 0.524880
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:56:38
Audit Action: Manually Integrated

TestAmerica Buffalo

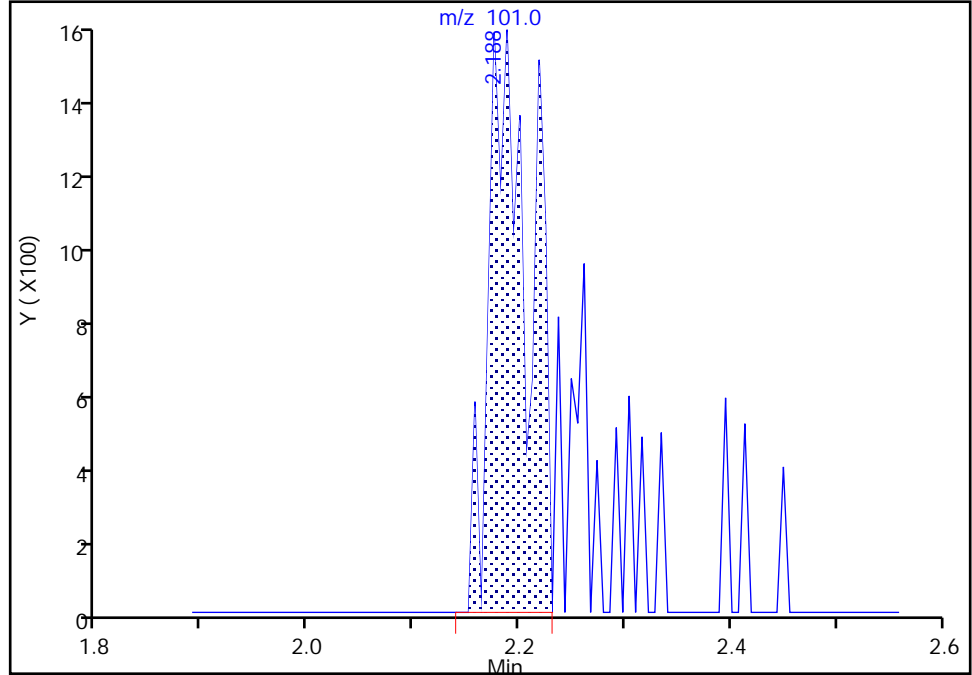
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

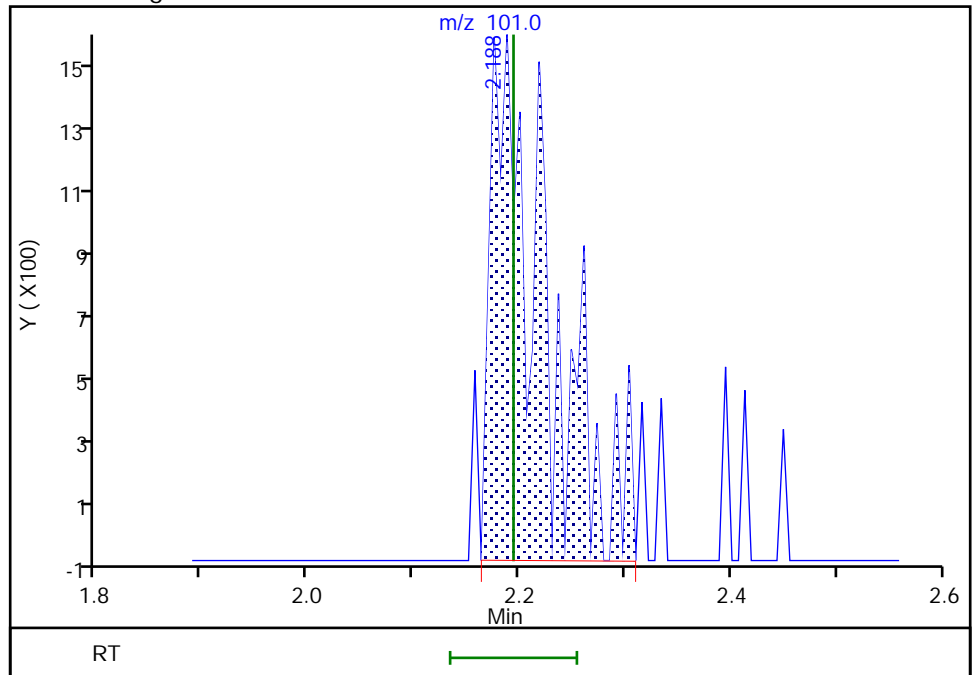
RT: 2.19
Area: 4042
Amount: 0.598811
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 5380
Amount: 0.419280
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:45:22
Audit Action: Manually Integrated

TestAmerica Buffalo

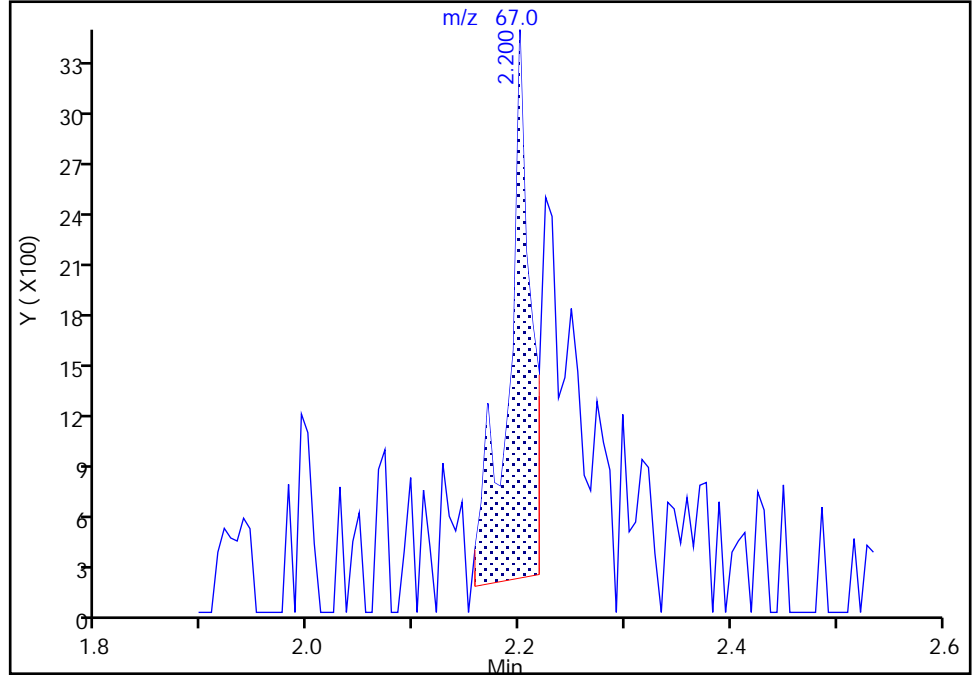
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

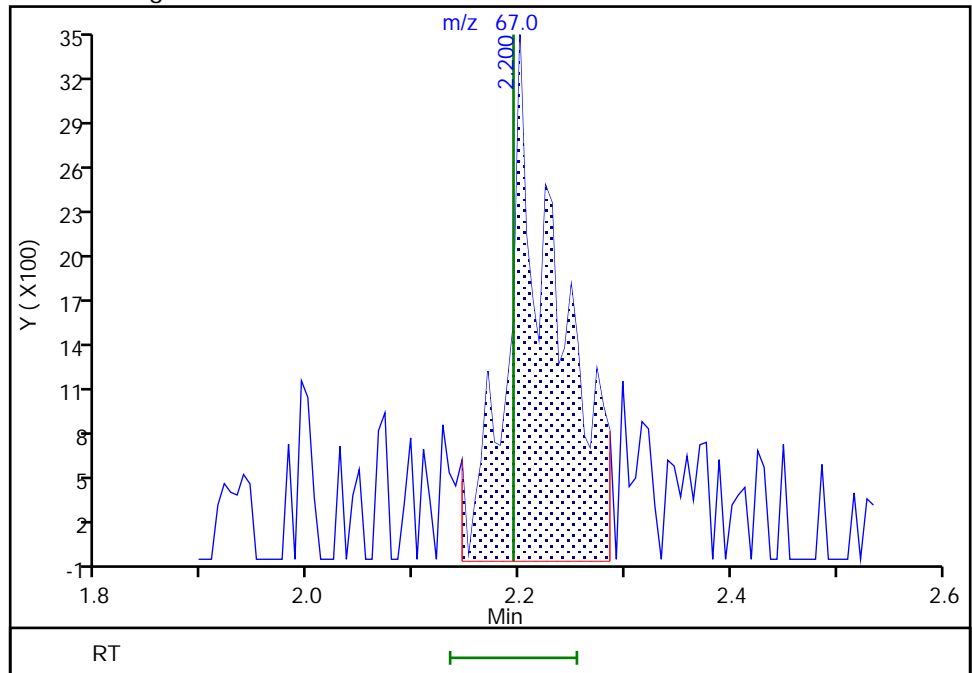
RT: 2.20
Area: 4764
Amount: 0.316635
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 11460
Amount: 0.638193
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:41:07
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

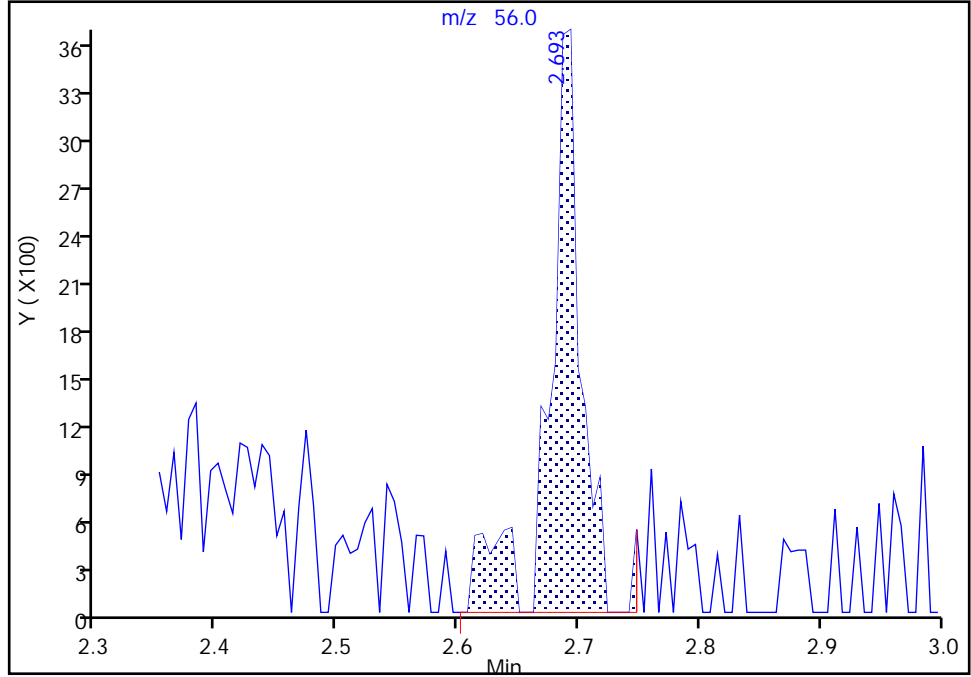
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

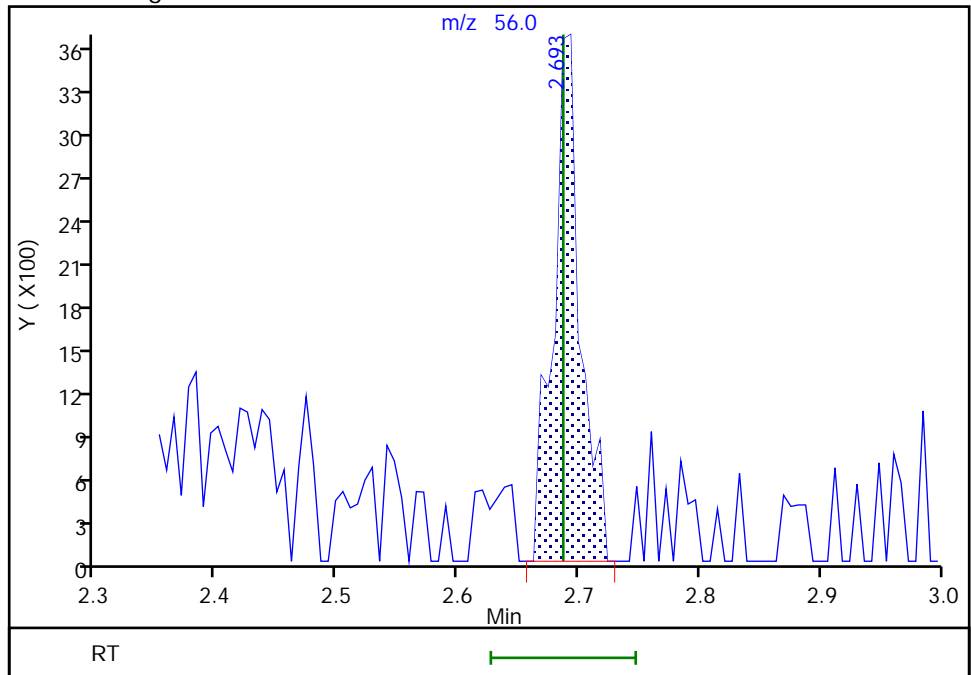
RT: 2.69
Area: 6846
Amount: 3.145829
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 5643
Amount: 2.581028
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:42:04
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

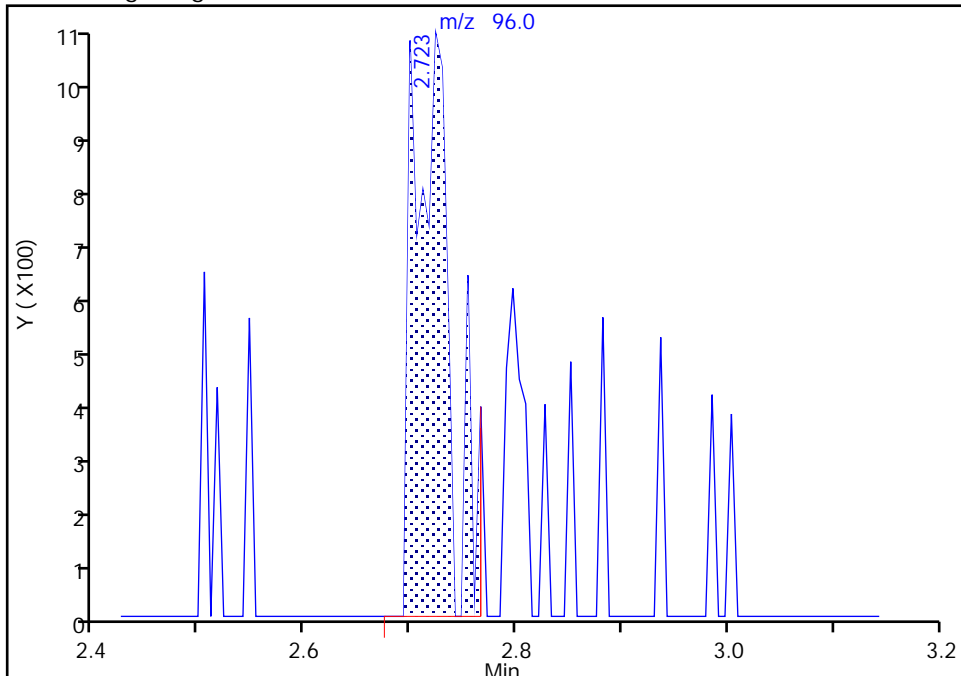
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

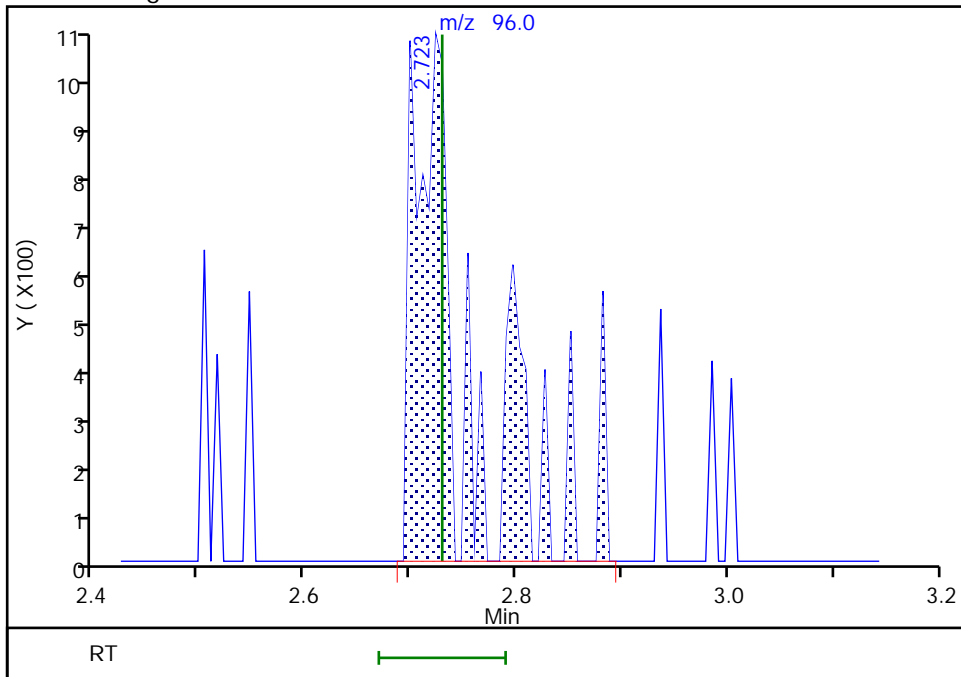
RT: 2.72
Area: 2399
Amount: 0.270204
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 3550
Amount: 0.403737
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:47:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

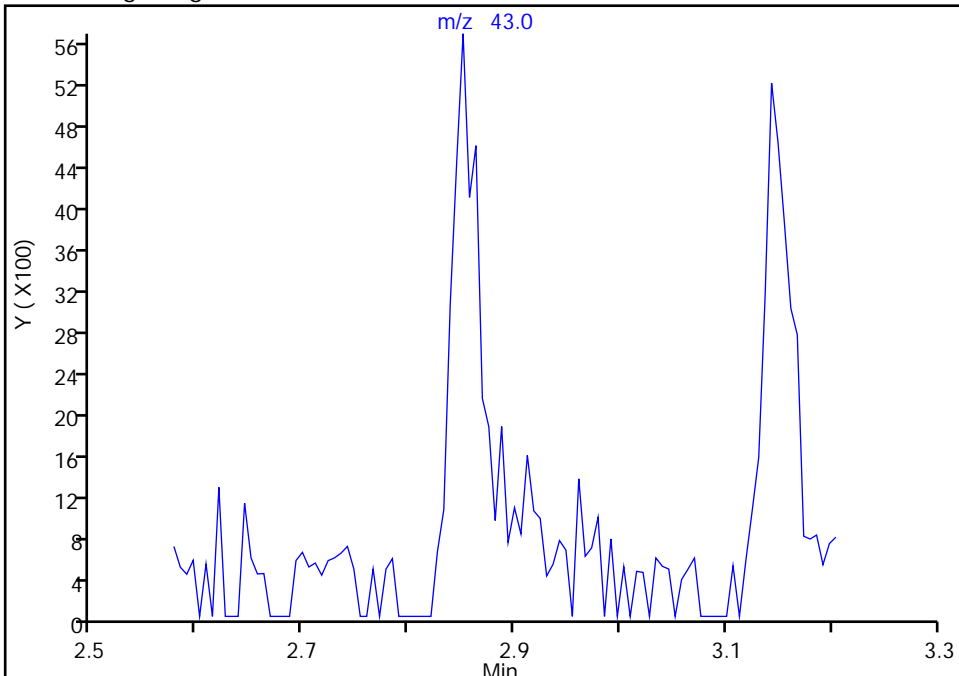
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

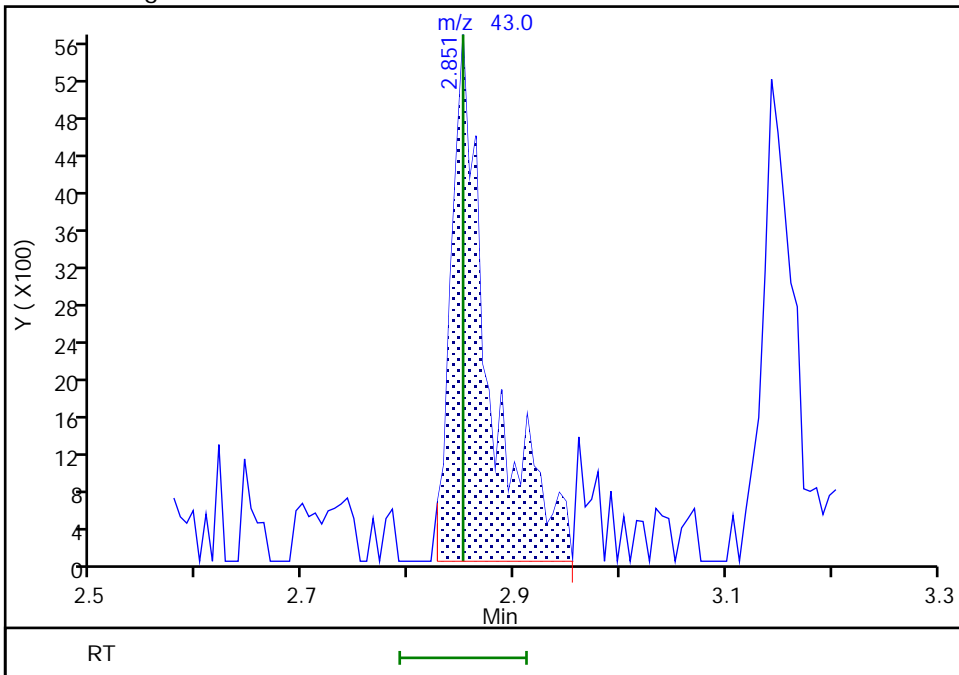
Not Detected
Expected RT: 2.85

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 13929
Amount: 3.637017
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:42:59
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

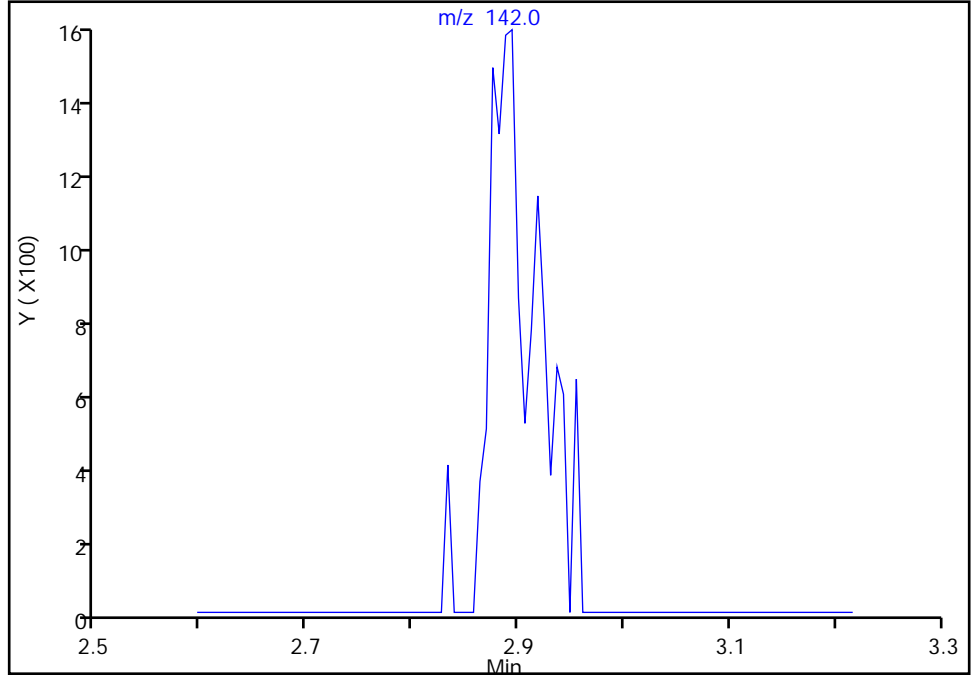
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

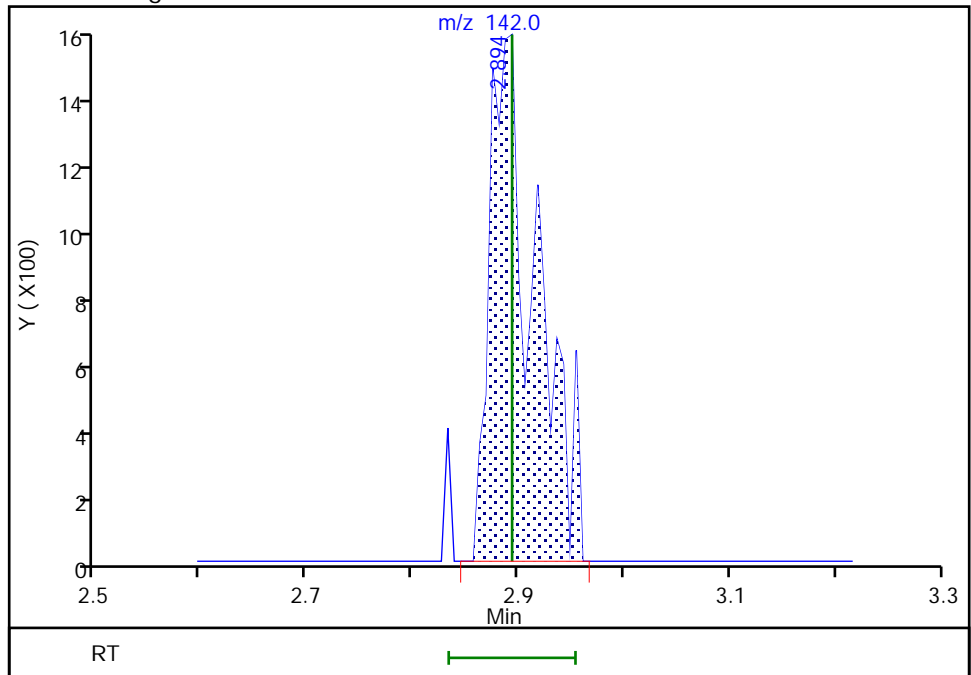
Not Detected
Expected RT: 2.89

Processing Integration Results



RT: 2.89
Area: 4781
Amount: 0.371790
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:57:46
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

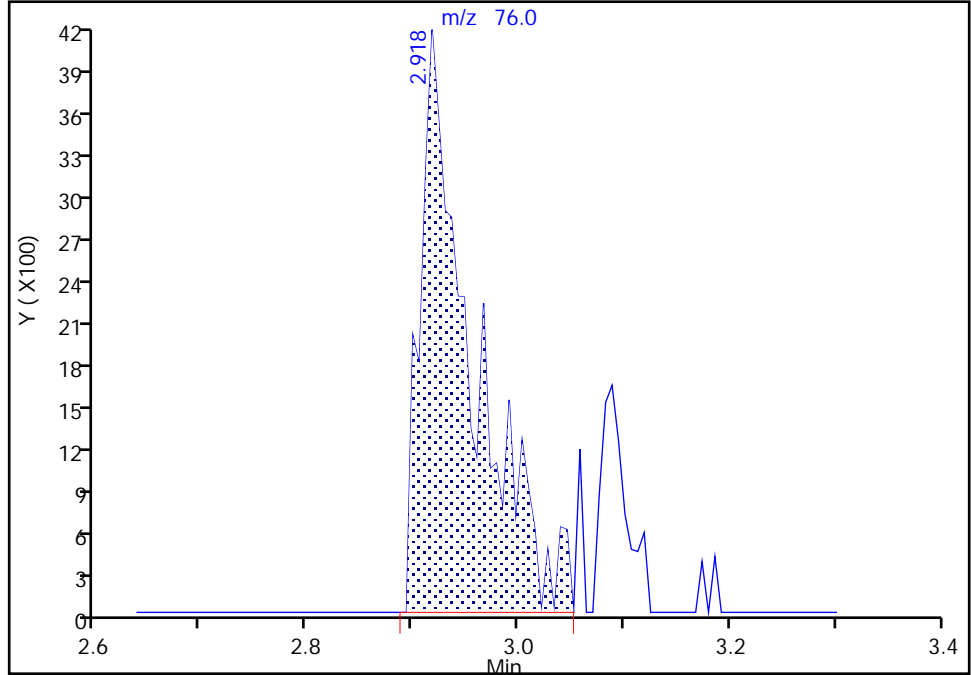
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

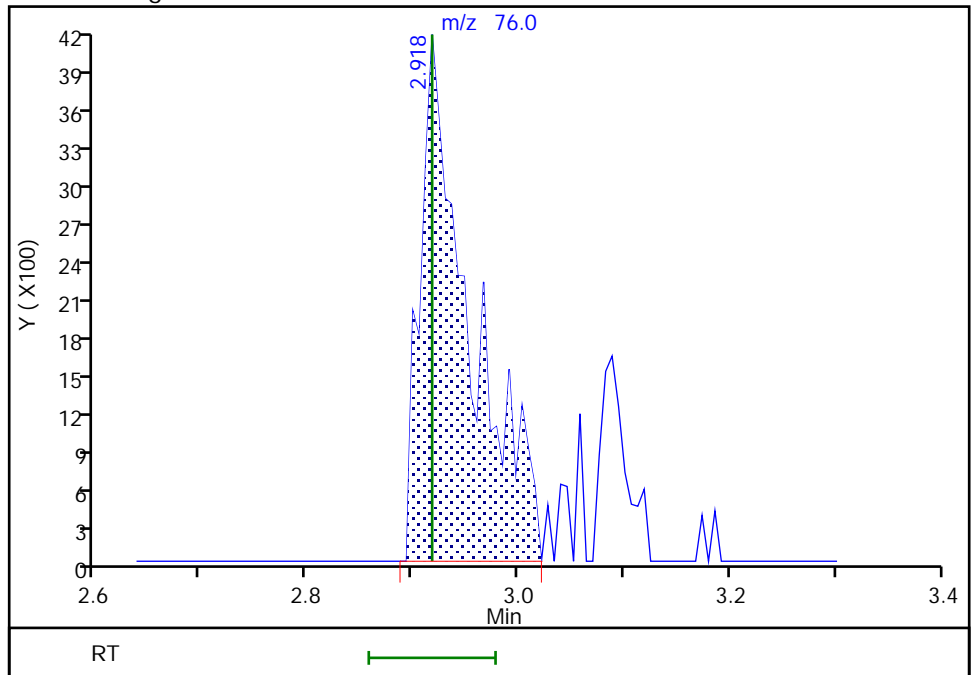
RT: 2.92
Area: 14115
Amount: 0.500876
Amount Units: ug/L

Processing Integration Results



RT: 2.92
Area: 13516
Amount: 0.482183
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:58:14
Audit Action: Manually Integrated

TestAmerica Buffalo

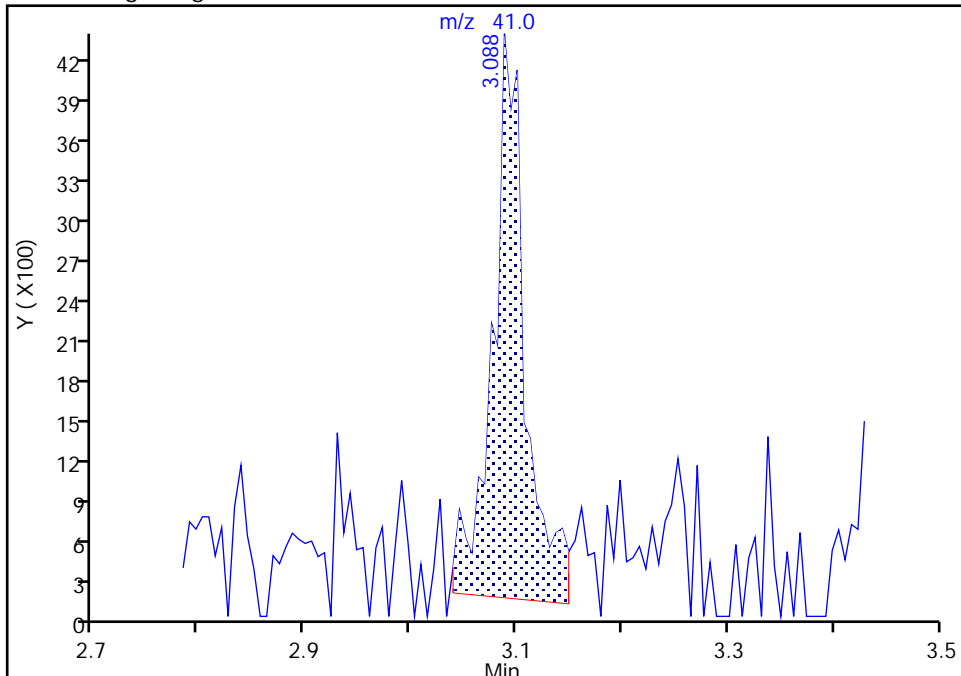
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

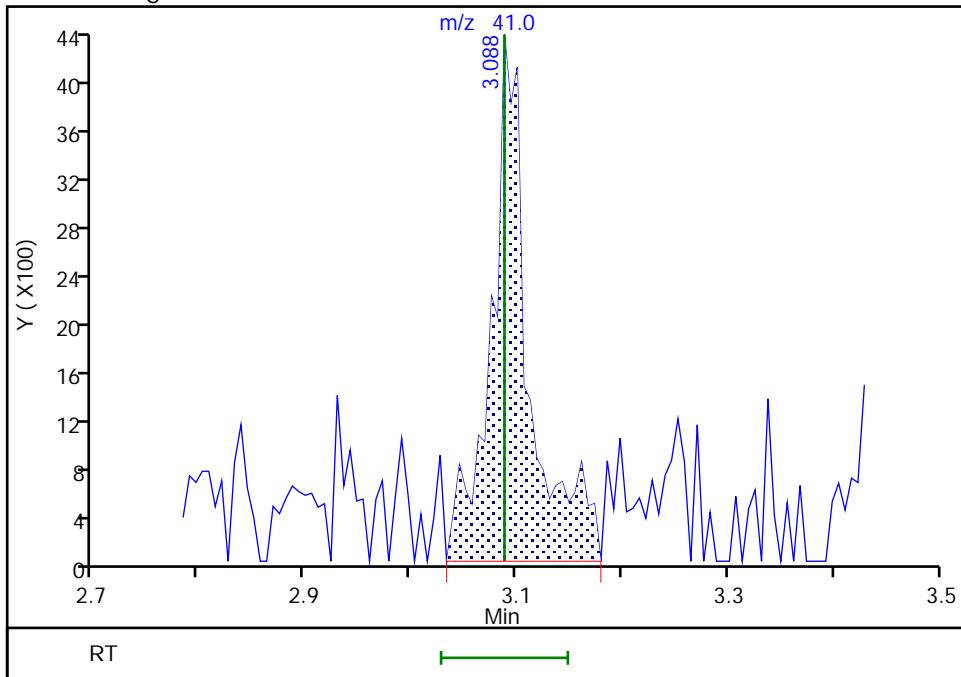
RT: 3.09
Area: 8961
Amount: 0.540219
Amount Units: ug/L

Processing Integration Results



RT: 3.09
Area: 10726
Amount: 0.629202
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:55:59
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

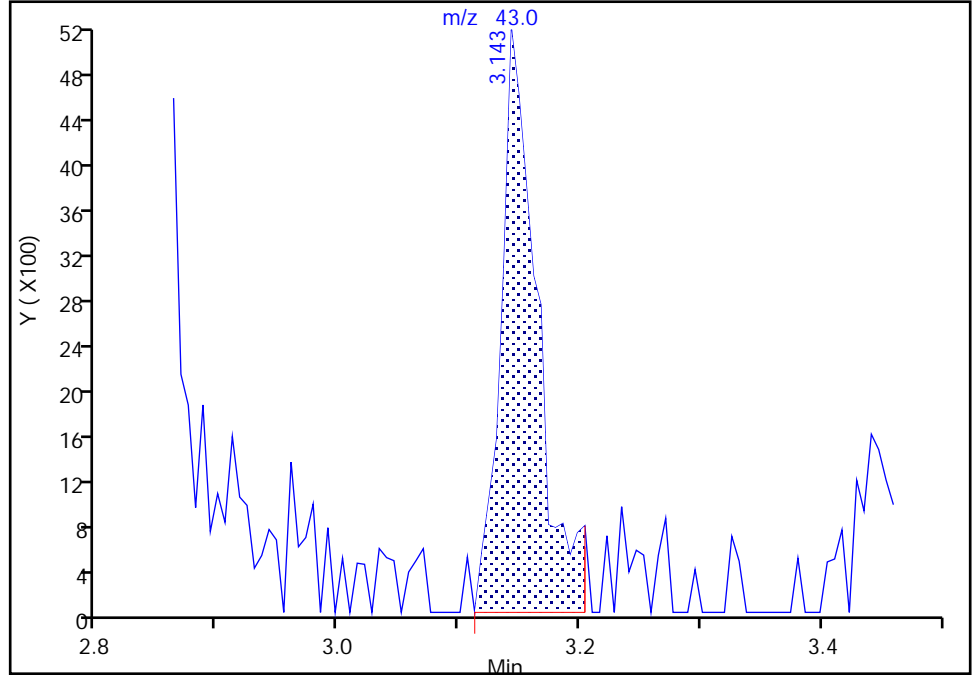
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

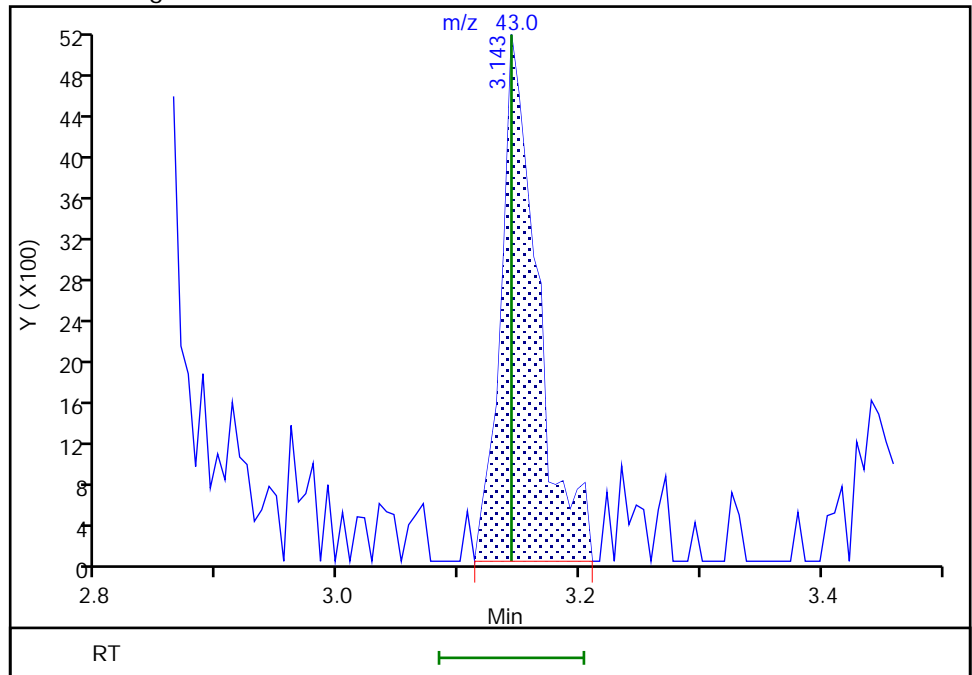
RT: 3.14
Area: 10797
Amount: 1.072511
Amount Units: ug/L

Processing Integration Results



RT: 3.14
Area: 10797
Amount: 1.073869
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:58:27
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

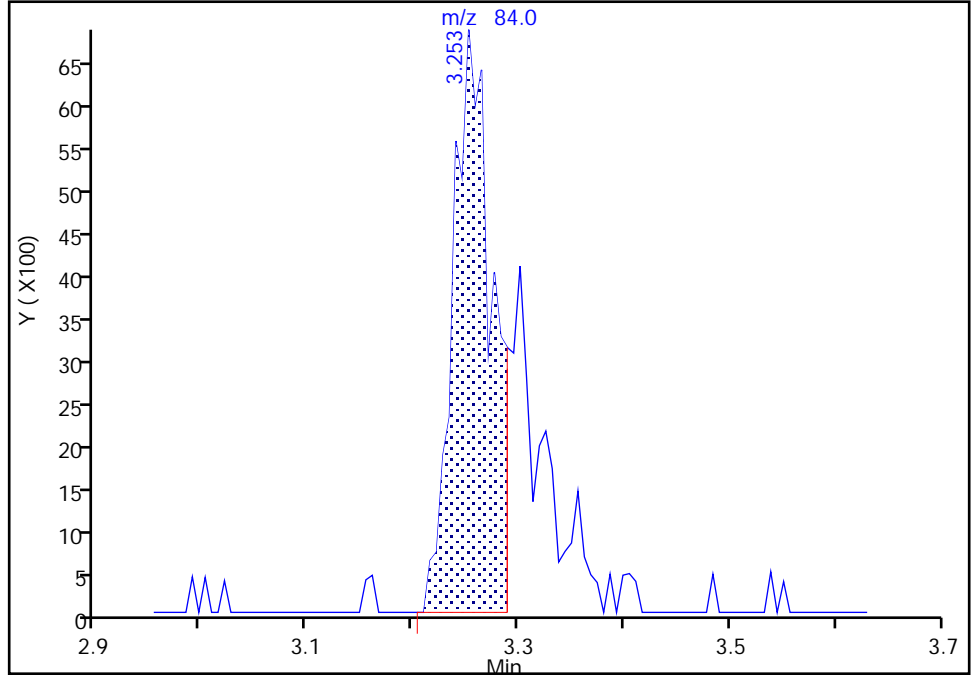
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

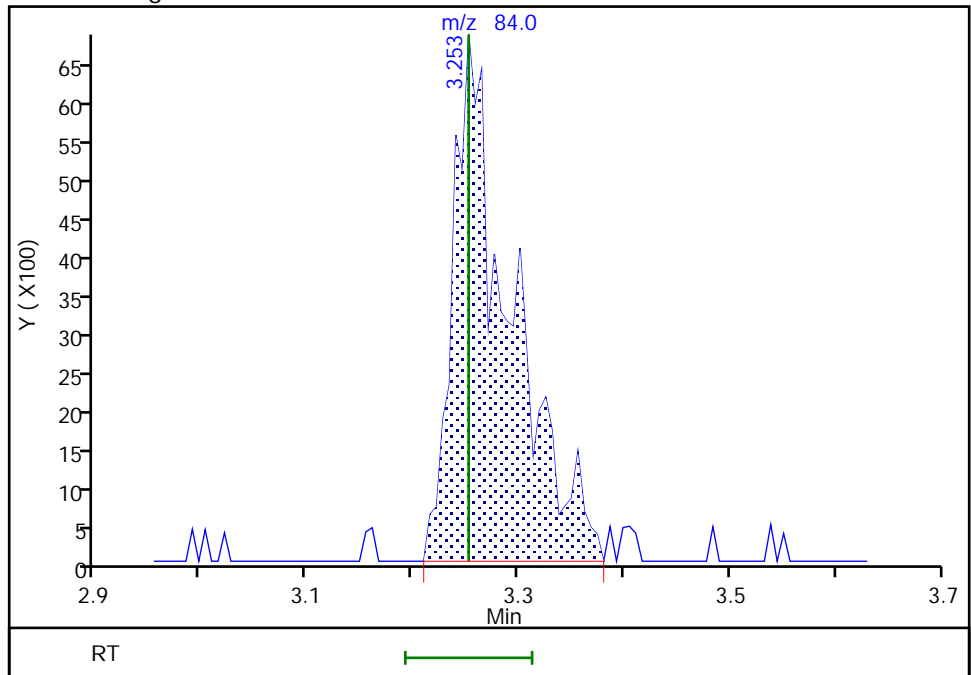
RT: 3.25
Area: 17805
Amount: 1.289031
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 25876
Amount: 0.589276
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:43:43
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

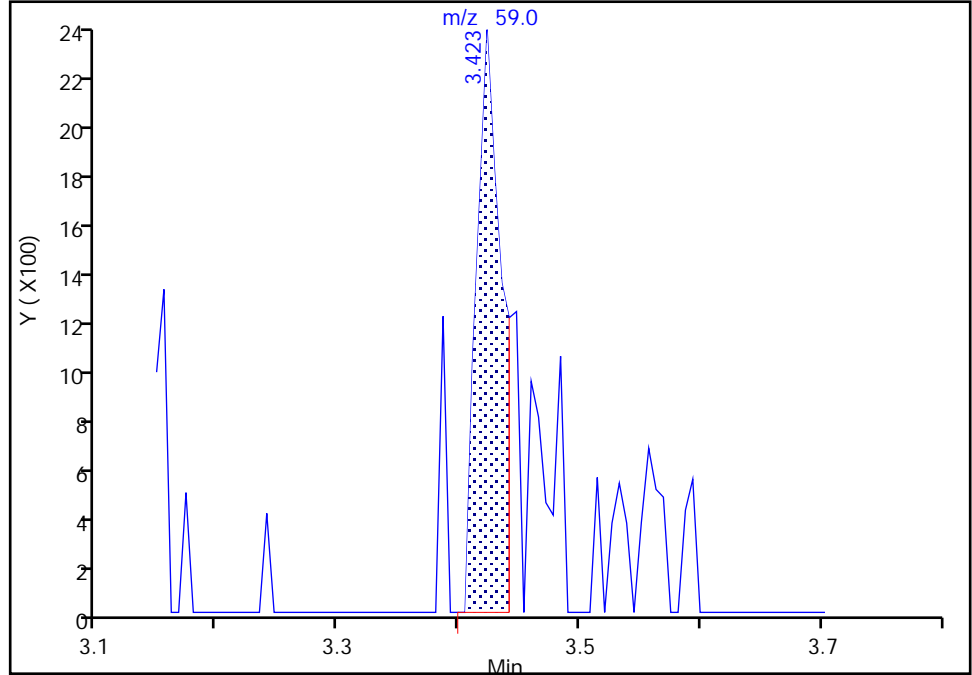
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

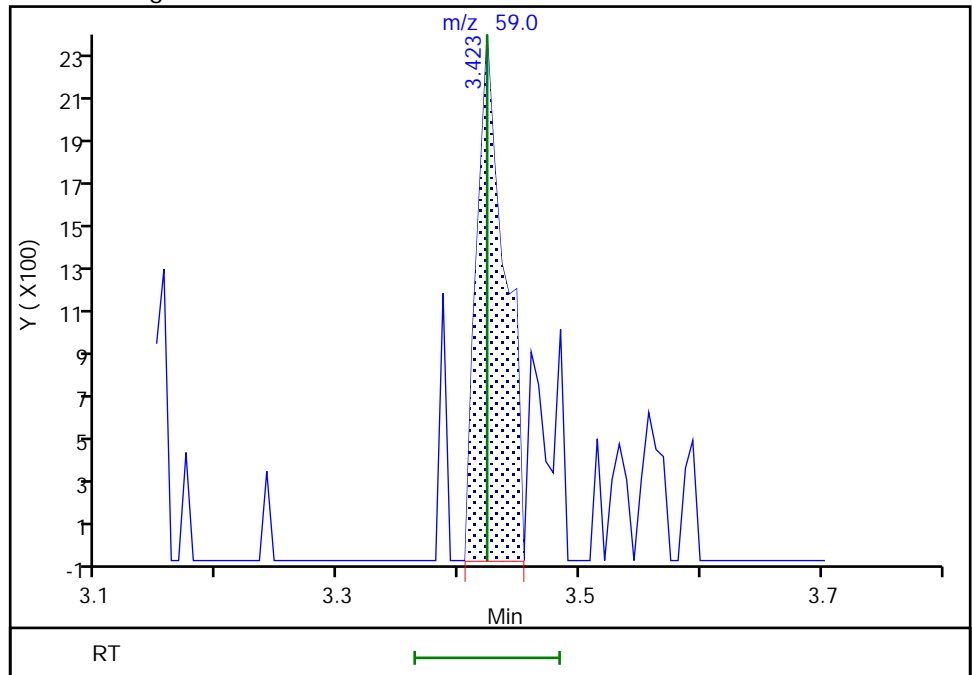
RT: 3.42
Area: 3386
Amount: 3.028648
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 3836
Amount: 2.956164
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:47:12
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

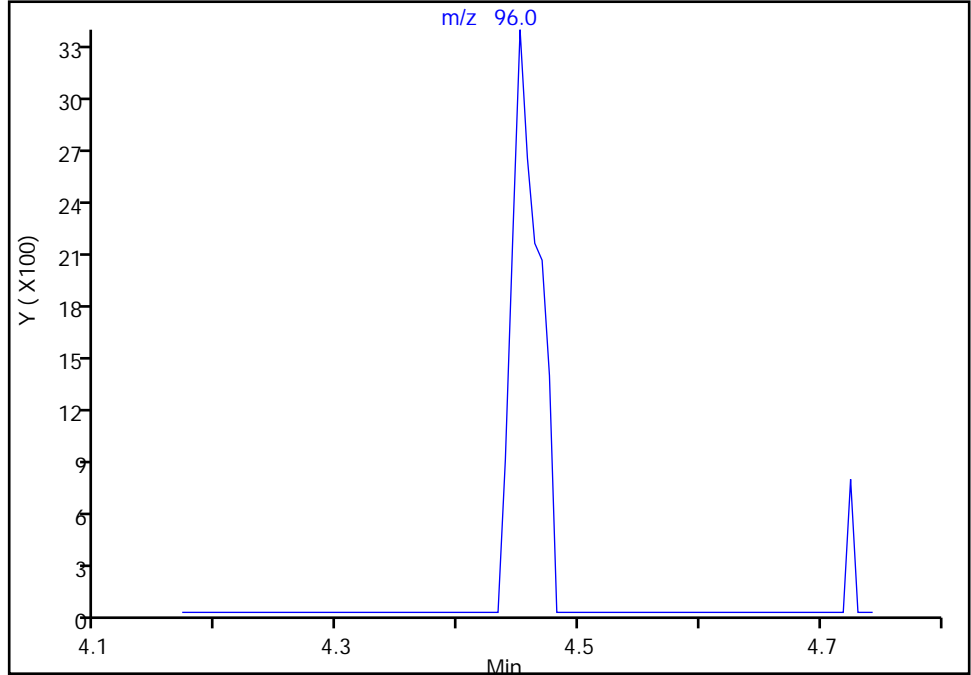
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

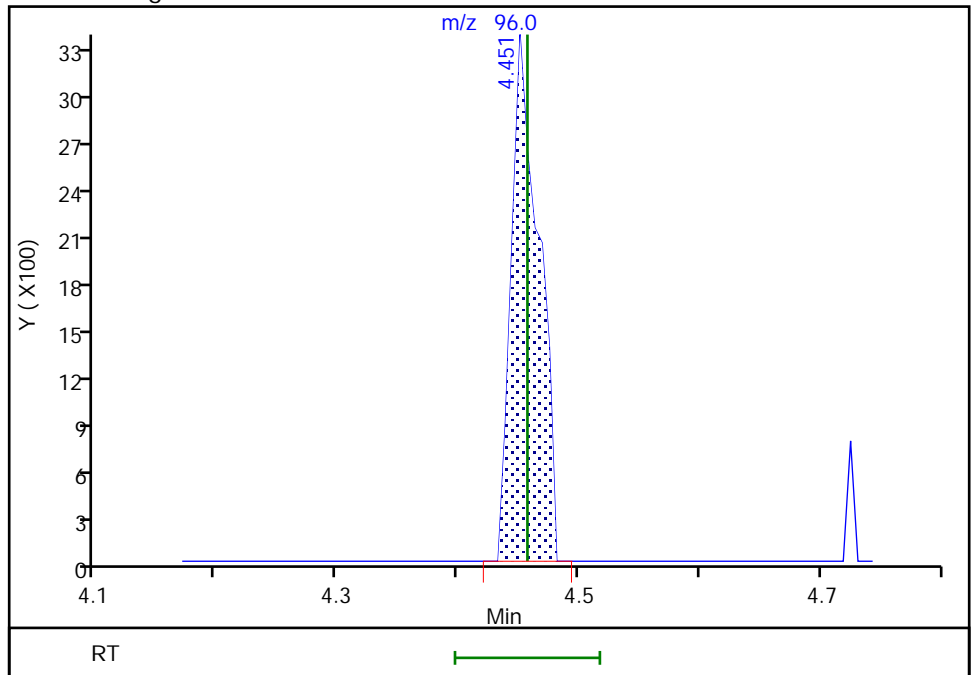
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.45
Area: 5275
Amount: 0.456176
Amount Units: ug/L



TestAmerica Buffalo

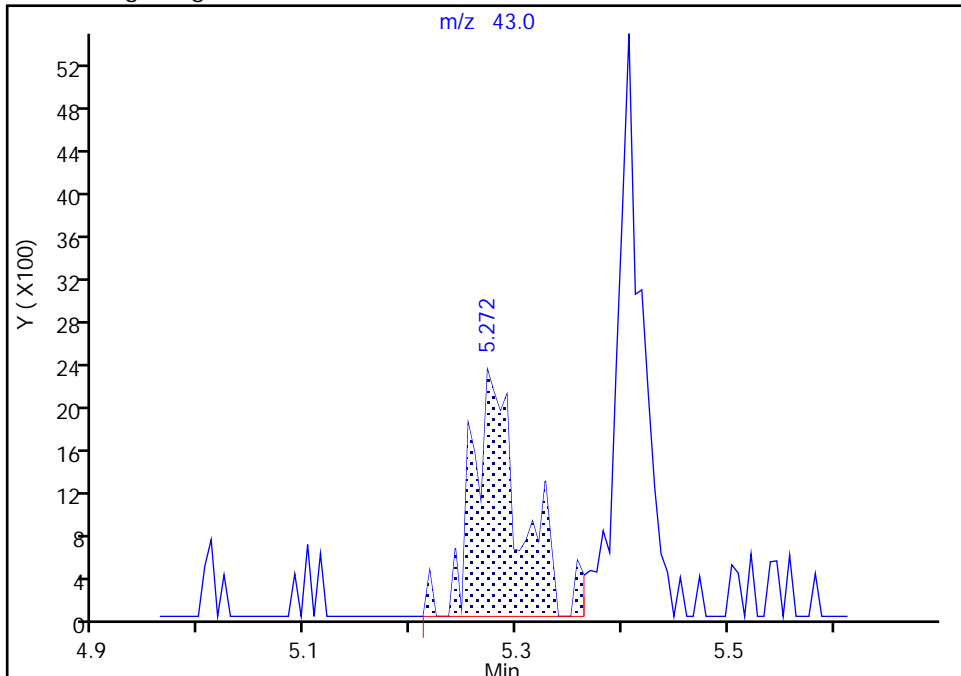
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

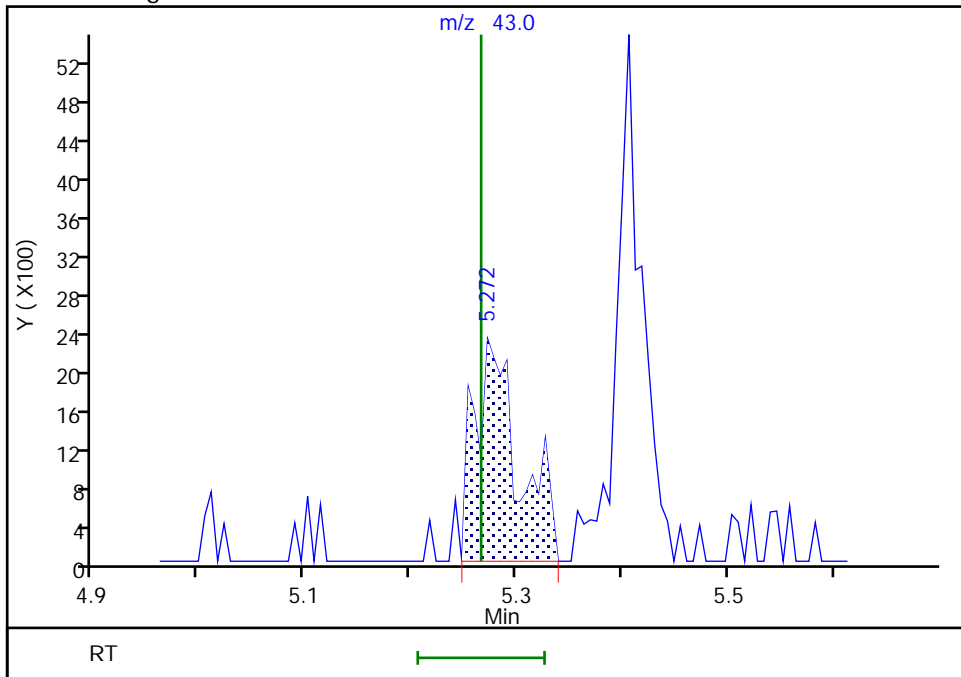
RT: 5.27
Area: 7407
Amount: 13.382108
Amount Units: ug/L

Processing Integration Results



RT: 5.27
Area: 6683
Amount: 12.234095
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:00:59
Audit Action: Manually Integrated

TestAmerica Buffalo

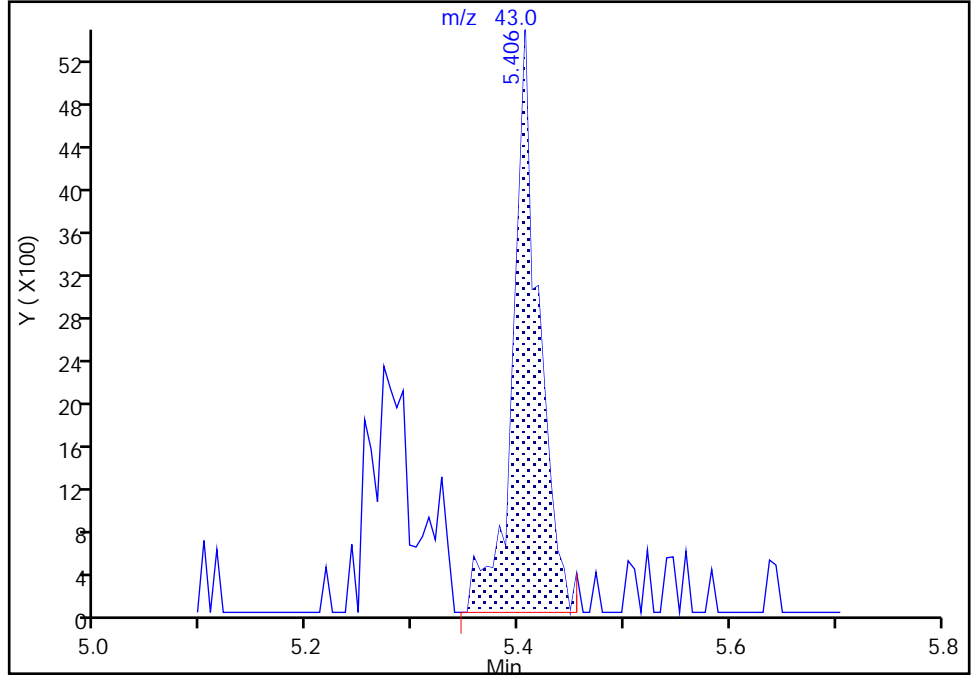
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

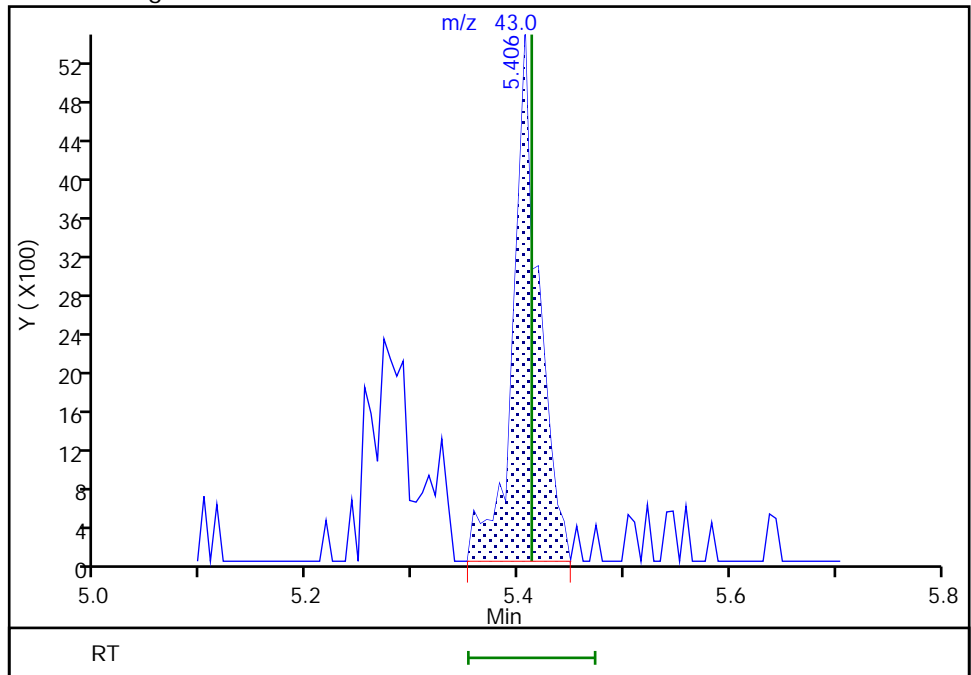
RT: 5.41
Area: 9374
Amount: 0.547303
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 9240
Amount: 0.535437
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:01:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

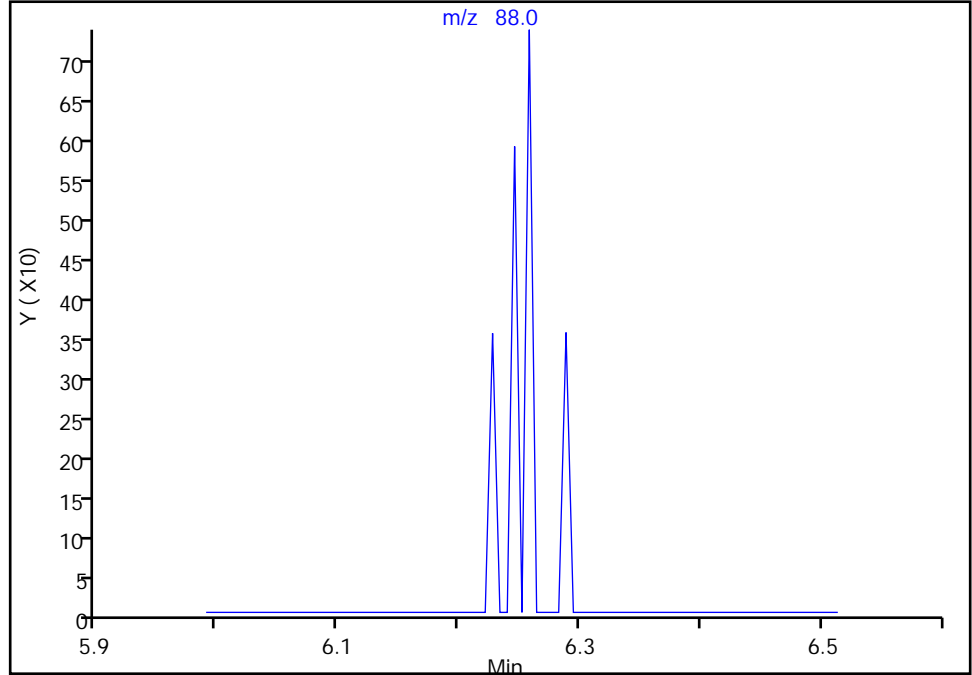
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

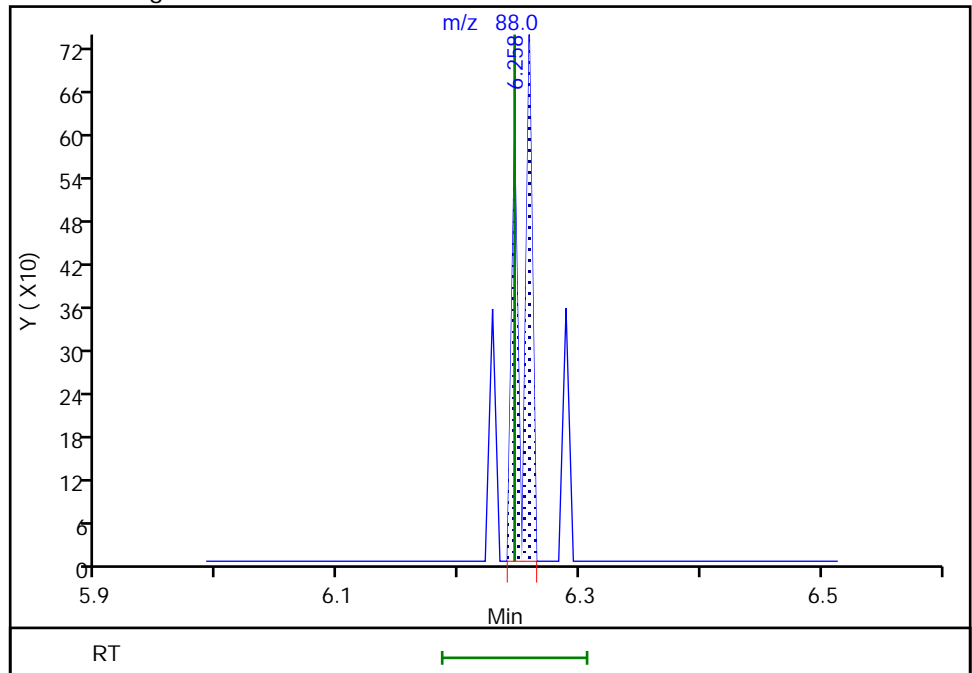
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 485
Amount: 18.689662
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:10
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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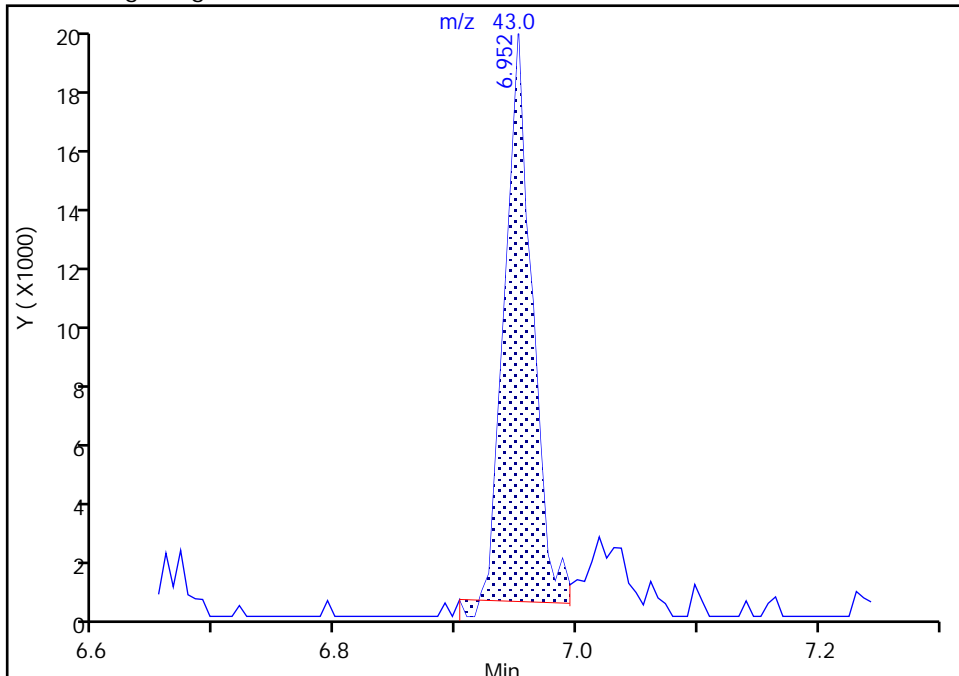
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

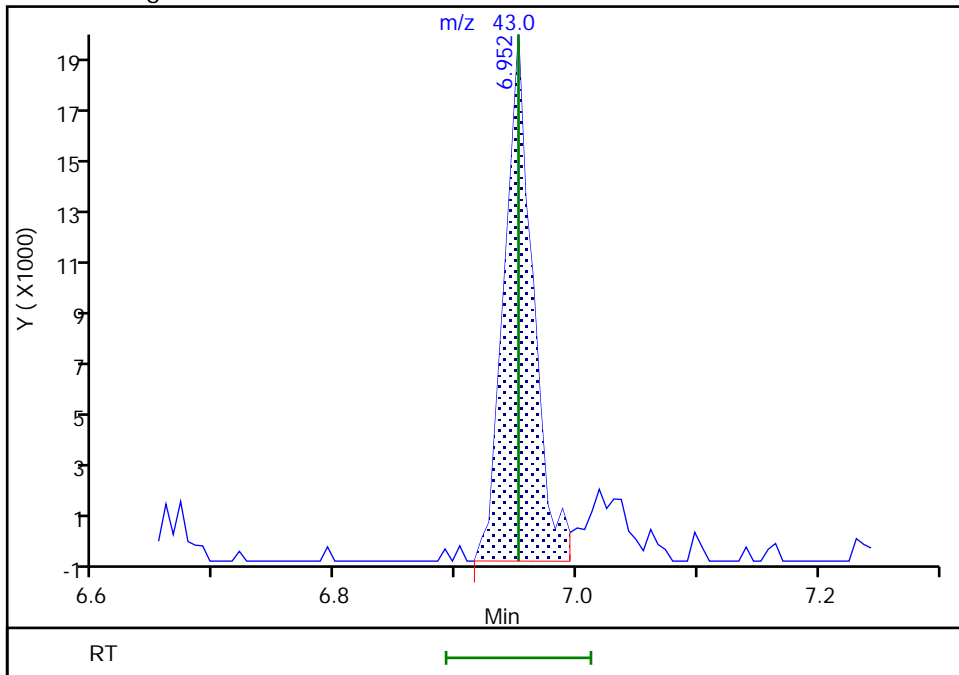
RT: 6.95
Area: 29564
Amount: 2.370232
Amount Units: ug/L

Processing Integration Results



RT: 6.95
Area: 32292
Amount: 2.560938
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:03:07
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

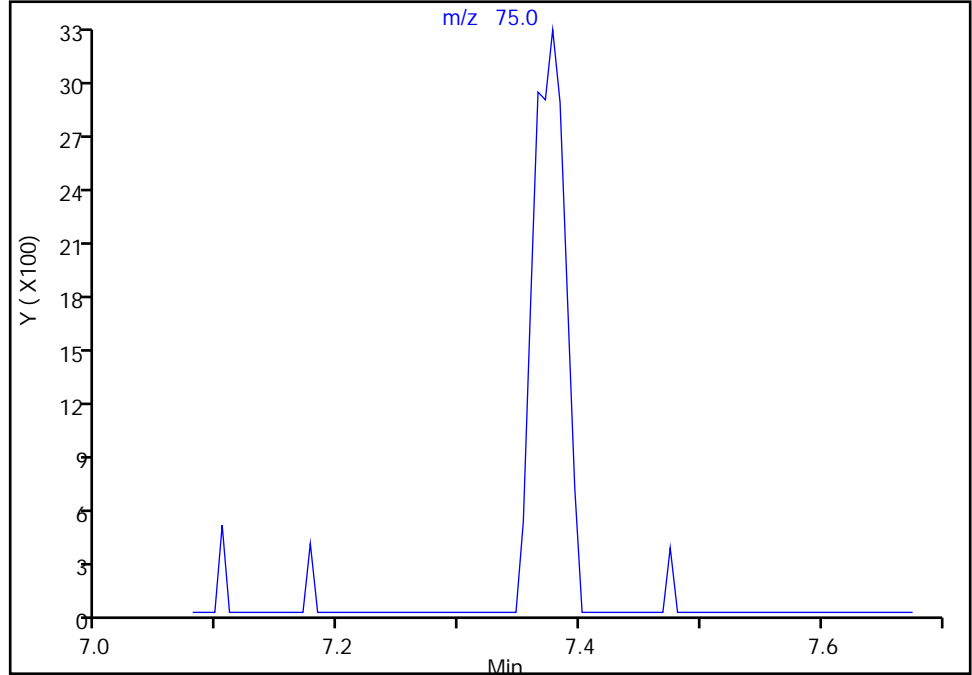
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

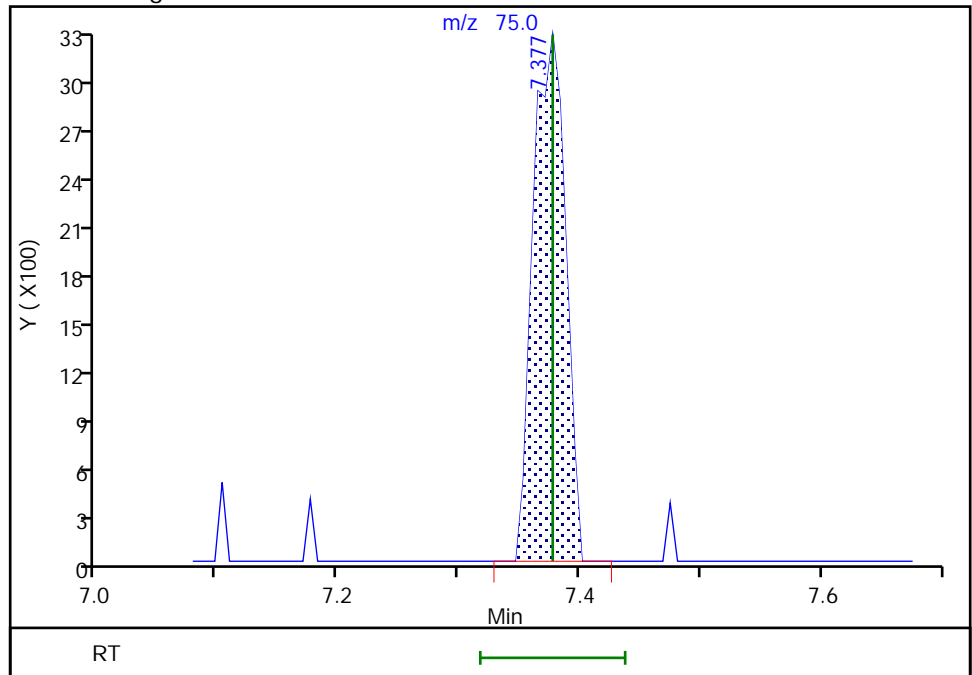
Not Detected
Expected RT: 7.38

Processing Integration Results



RT: 7.38
Area: 6057
Amount: 0.418787
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:45:20
Audit Action: Manually Integrated

Audit Reason: Assign Peak

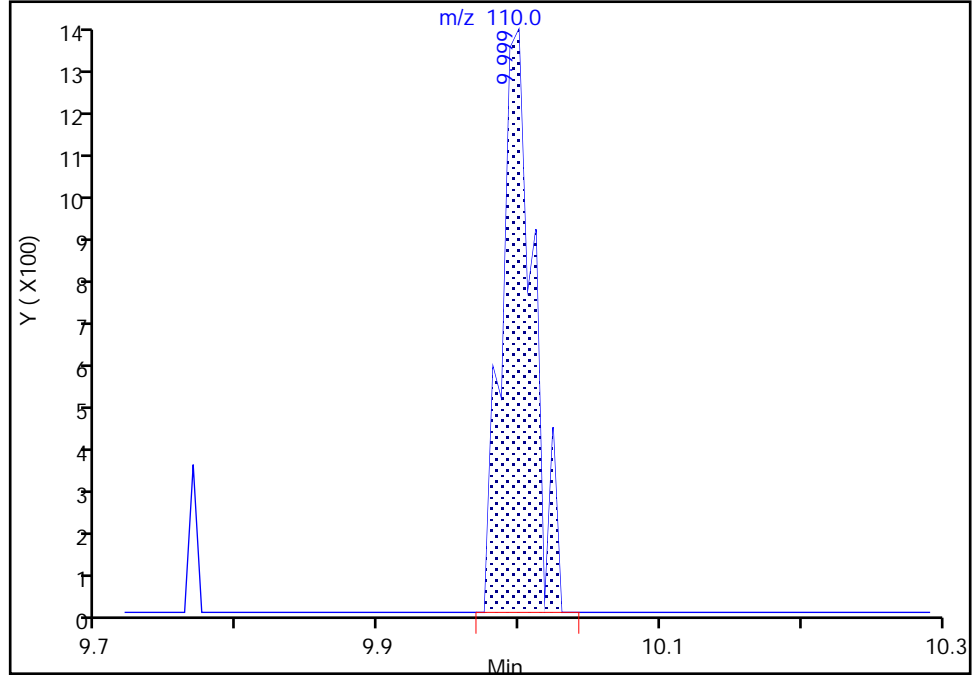
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4
Signal: 1

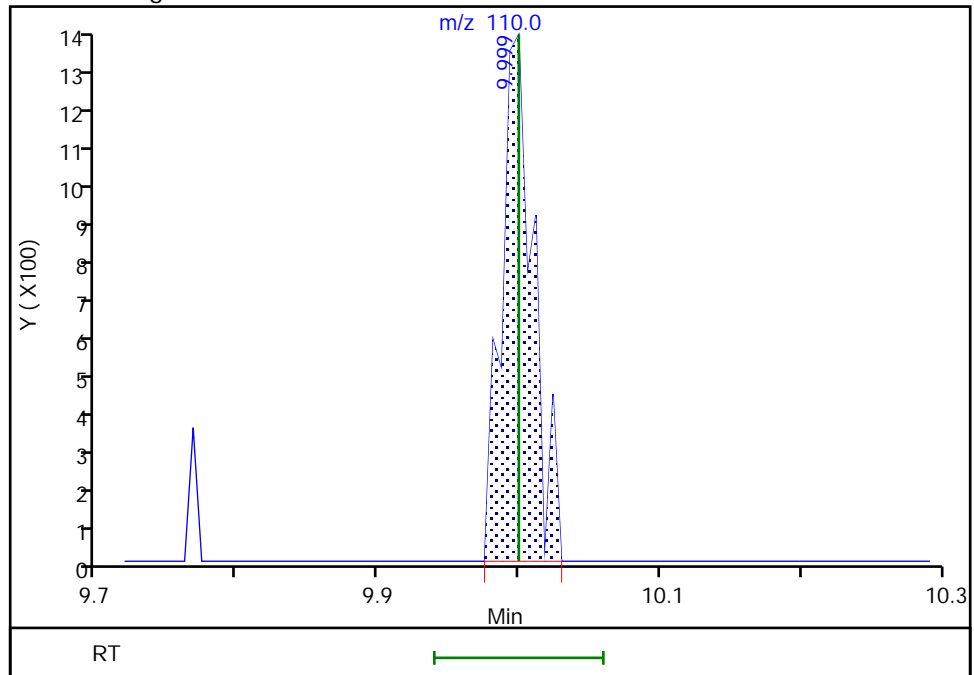
RT: 10.00
Area: 2169
Amount: 0.520804
Amount Units: ug/L

Processing Integration Results



RT: 10.00
Area: 2169
Amount: 0.525119
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:04:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

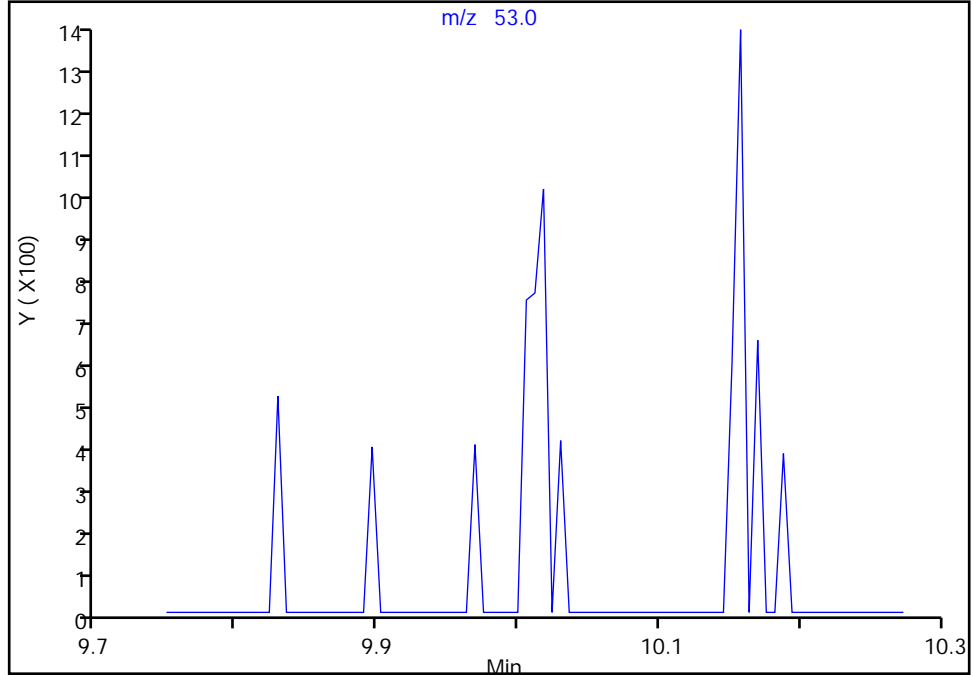
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

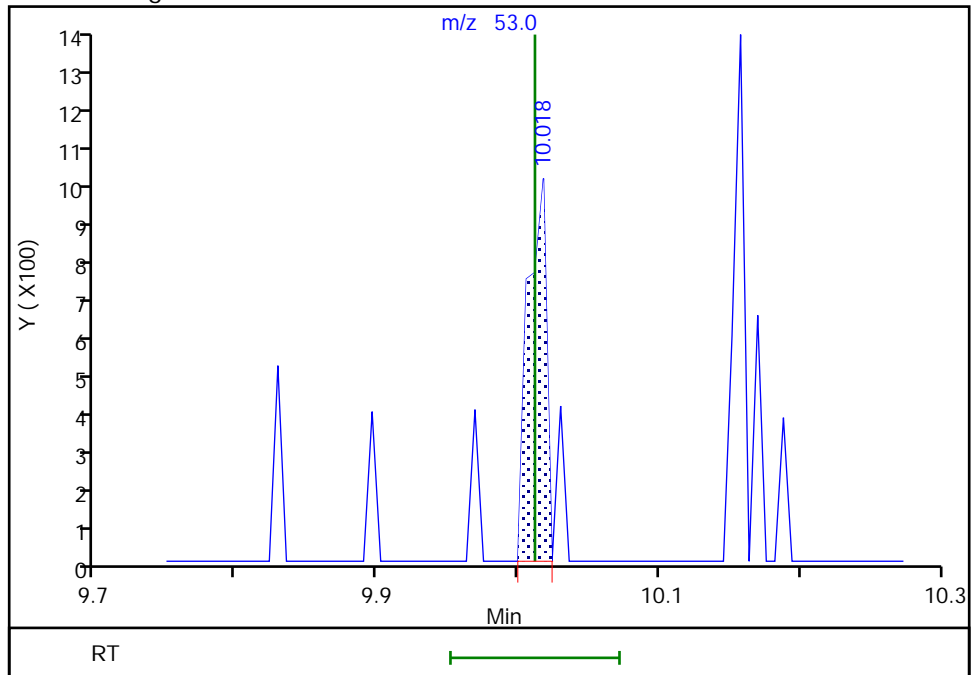
Not Detected
Expected RT: 10.01

Processing Integration Results



Manual Integration Results

RT: 10.02
Area: 863
Amount: 0.772476
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:04:23
Audit Action: Manually Integrated

TestAmerica Buffalo

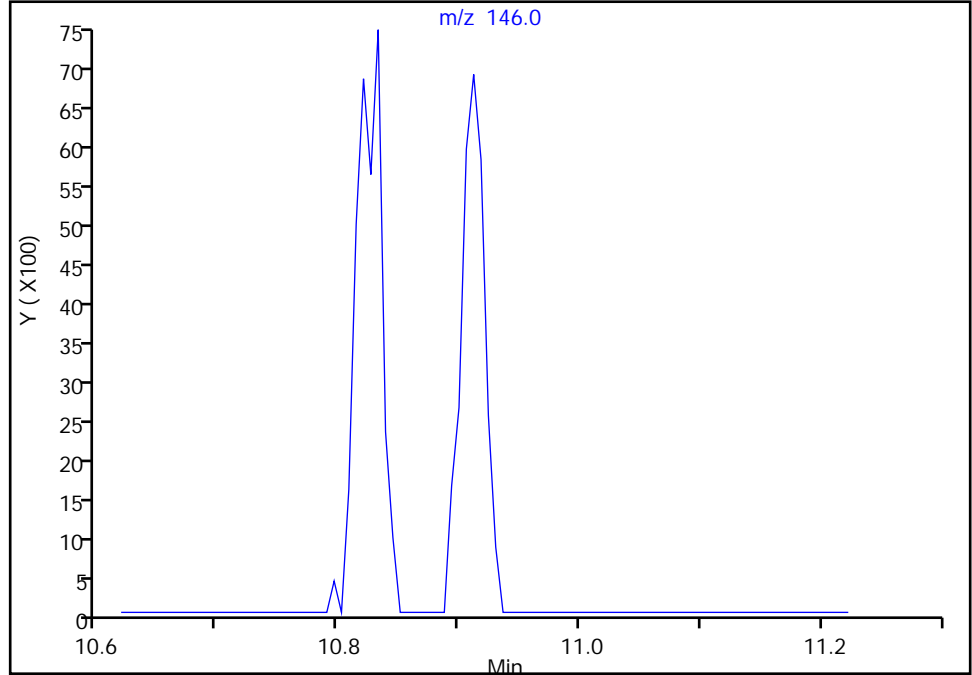
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

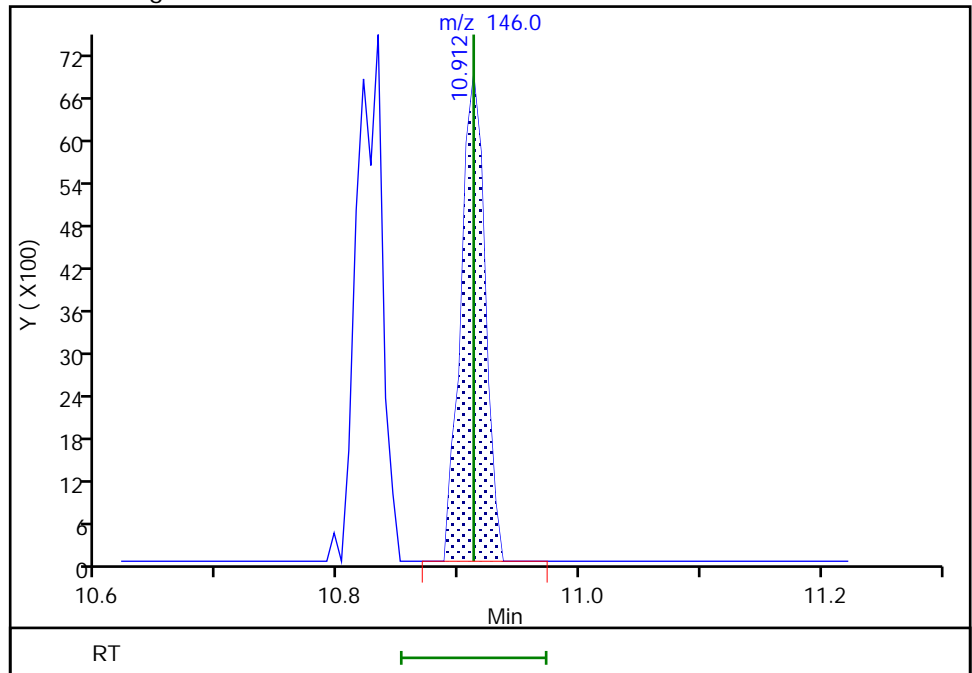
Signal: 1

Not Detected
Expected RT: 10.91

Processing Integration Results



Manual Integration Results



RT: 10.91
Area: 9616
Amount: 0.415448
Amount Units: ug/L

Reviewer: nowakk, 20-Jun-2018 20:45:54
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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TestAmerica Buffalo

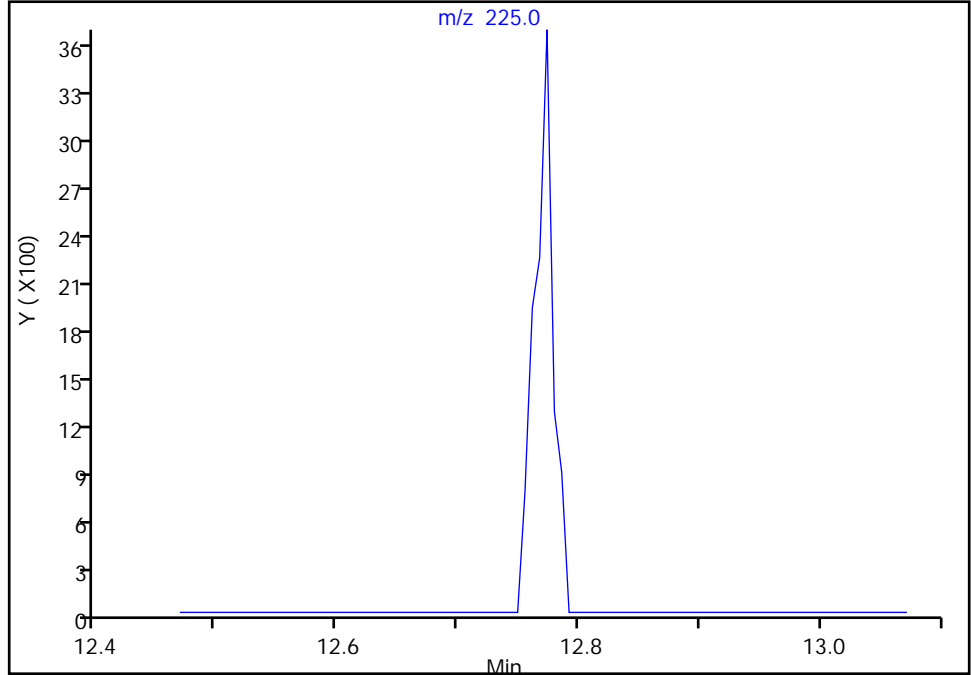
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

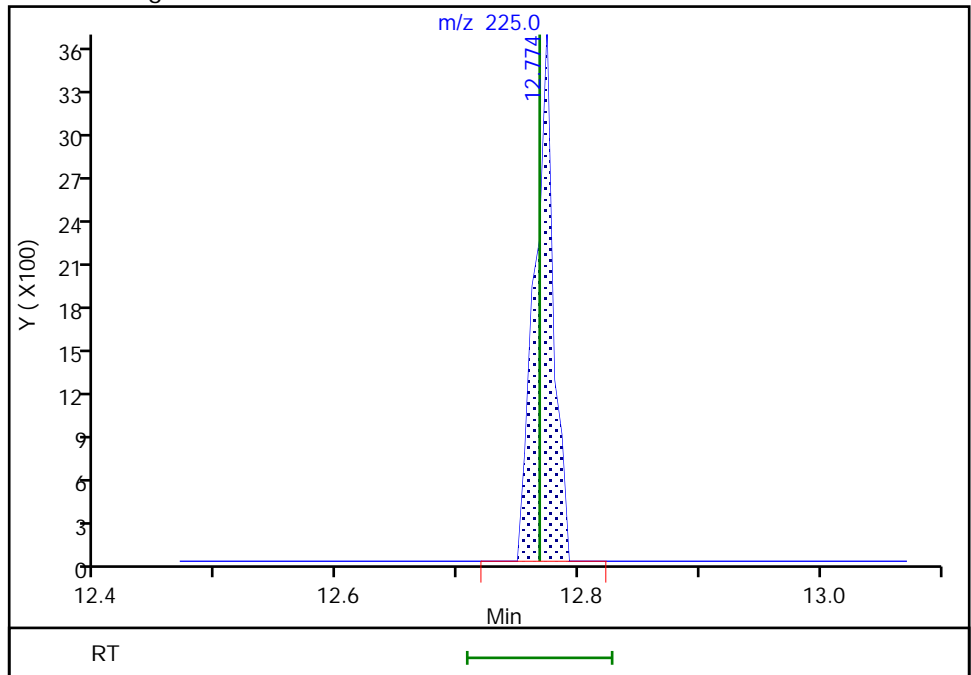
Not Detected
Expected RT: 12.77

Processing Integration Results



Manual Integration Results

RT: 12.77
Area: 3906
Amount: 0.514056
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:46:00
Audit Action: Manually Integrated

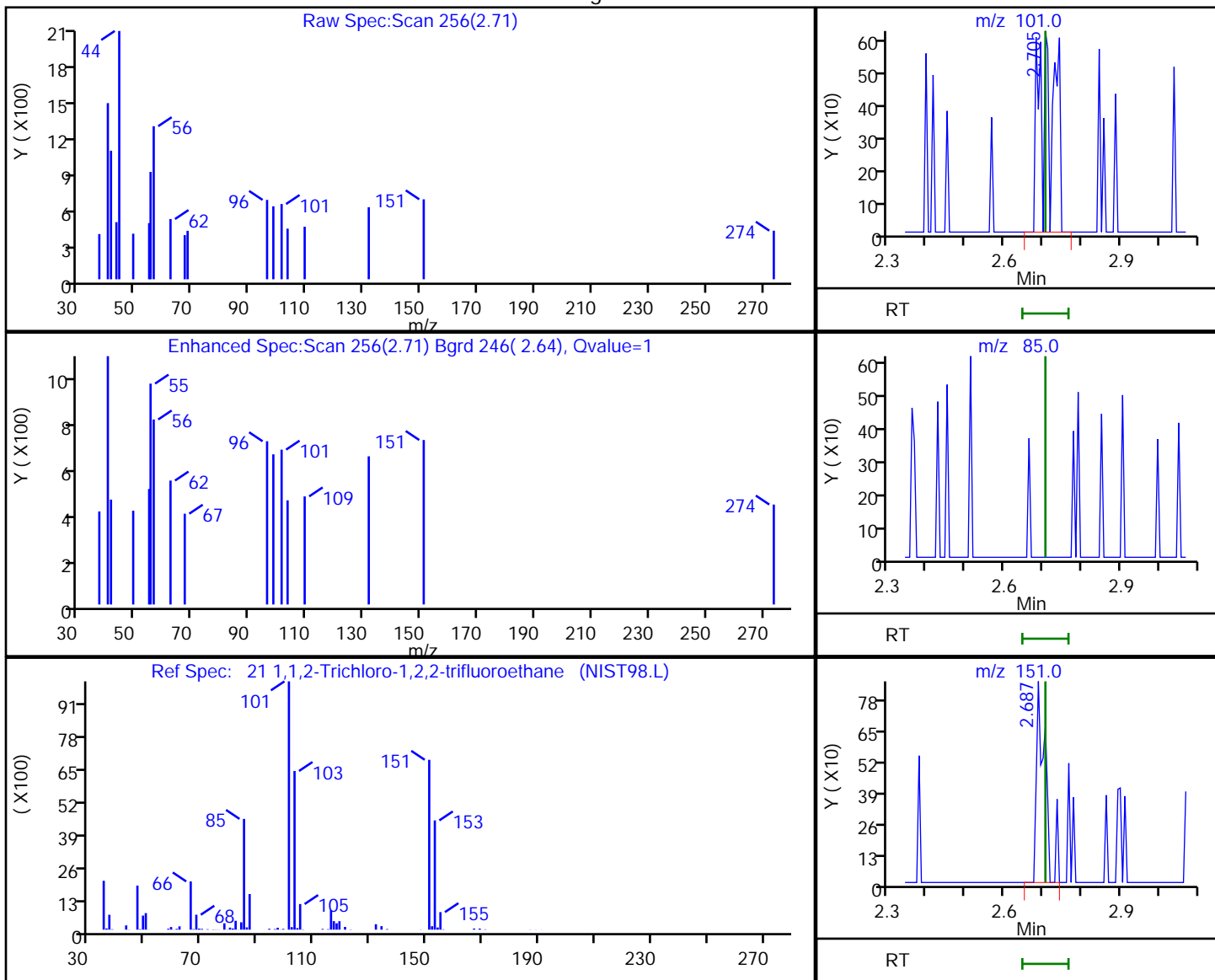
Audit Reason: Assign Peak
Page 129 of 444

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
 Lims ID: IC 0.5
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.71	101.00	1737	0.614237
2.71	85.00	0	
2.69	151.00	1339	

Reviewer: moffata, 21-Jun-2018 11:57:25

Audit Action: Marked Compound Undetected

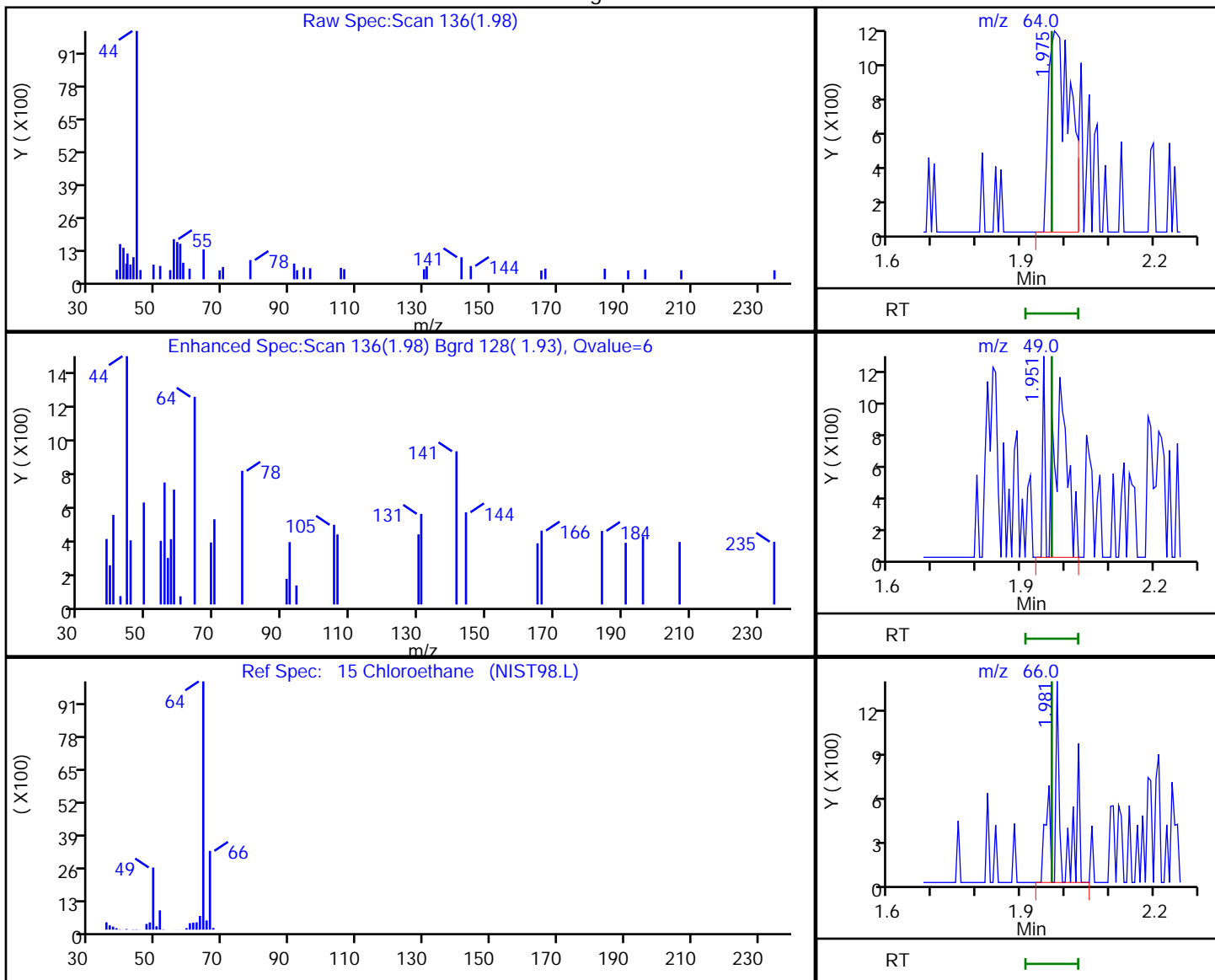
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
 Lims ID: IC 0.5
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.98	64.00	4050	0.494855
1.95	49.00	2720	
1.98	66.00	1758	

Reviewer: moffata, 21-Jun-2018 11:56:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	59	18747	1.00	0.8971	
37 Vinyl acetate	43	3.952	3.952	0.000	95	48840	2.00	2.03	
44 2,2-Dichloropropane	77	4.421	4.415	0.006	58	10146	1.00	0.8761	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	38	9571	1.00	0.8396	M
43 2-Butanone (MEK)	43	4.506	4.494	0.012	90	28054	5.00	4.84	M
48 Chlorobromomethane	128	4.701	4.695	0.006	61	4881	1.00	0.8962	
49 Tetrahydrofuran	42	4.713	4.713	0.000	83	9288	2.00	2.33	
50 Chloroform	83	4.774	4.774	0.000	55	18254	1.00	1.00	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	59	11720	1.00	0.8626	
52 Cyclohexane	56	4.889	4.883	0.006	66	14257	1.00	0.7800	
55 Carbon tetrachloride	117	5.011	5.011	0.000	69	9145	1.00	0.8032	M
54 1,1-Dichloropropene	75	5.035	5.029	0.006	71	11150	1.00	0.8051	
57 Benzene	78	5.236	5.236	0.000	41	36984	1.00	0.8884	
53 Isobutyl alcohol	43	5.266	5.266	0.000	49	12199	25.0	22.7	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	71	16247	1.00	0.9660	M
59 n-Heptane	43	5.406	5.412	-0.006	79	15455	1.00	0.9085	
62 Trichloroethene	95	5.850	5.850	0.000	66	9061	1.00	0.8437	
64 Methylcyclohexane	83	5.954	5.960	-0.006	65	12551	1.00	0.7674	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	64	12180	1.00	0.9699	
67 Dibromomethane	93	6.240	6.234	0.006	78	5931	1.00	0.9046	
66 1,4-Dioxane	88	6.258	6.246	0.012	1	597	20.0	20.1	M
68 Dichlorobromomethane	83	6.398	6.386	0.012	28	10219	1.00	0.8092	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	66	8583	1.00	1.02	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	59	13358	1.00	0.8413	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	89	59826	5.00	4.84	
74 Toluene	92	7.091	7.085	0.006	73	24418	1.00	0.9491	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	67	12197	1.00	0.8606	
75 Ethyl methacrylate	69	7.414	7.414	0.000	72	12849	1.00	0.9248	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	54	7331	1.00	0.9458	
81 Tetrachloroethene	166	7.621	7.615	0.006	82	9718	1.00	0.8945	
82 1,3-Dichloropropane	76	7.736	7.730	0.006	59	15786	1.00	0.9657	
80 2-Hexanone	43	7.791	7.791	0.000	92	44500	5.00	4.89	
83 Chlorodibromomethane	129	7.961	7.961	0.000	36	7156	1.00	0.8118	M
84 Ethylene Dibromide	107	8.071	8.071	0.000	53	10524	1.00	1.08	
87 Chlorobenzene	112	8.539	8.539	0.000	83	24166	1.00	0.8571	
88 Ethylbenzene	91	8.631	8.631	0.000	93	41123	1.00	0.8869	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	37	8227	1.00	0.9023	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	17890	1.00	0.9484	
91 o-Xylene	106	9.178	9.178	0.000	80	15140	1.00	0.8457	
92 Styrene	104	9.209	9.209	0.000	51	25278	1.00	0.8227	
95 Bromoform	173	9.470	9.464	0.006	55	4863	1.00	0.8636	
94 Isopropylbenzene	105	9.561	9.561	0.000	77	39437	1.00	0.8441	
101 Bromobenzene	156	9.908	9.908	0.000	70	10335	1.00	0.8743	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	62	11498	1.00	0.9057	
99 N-Propylbenzene	91	9.981	9.987	-0.006	91	45097	1.00	0.8326	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	25	3120	1.00	0.7465	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	2682	1.00	1.16	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	89	9082	1.00	0.7790	M
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	71	35625	1.00	0.8789	
105 4-Chlorotoluene	126	10.200	10.200	0.000	48	9952	1.00	0.8330	
106 tert-Butylbenzene	134	10.474	10.474	0.000	74	7151	1.00	0.8276	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	9	33566	1.00	0.8108	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	76	40072	1.00	0.8245	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	82	31836	1.00	0.7610	
111 1,3-Dichlorobenzene	146	10.821	10.827	-0.006	64	20317	1.00	0.8846	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	58	23153	1.00	0.9886	
115 n-Butylbenzene	91	11.210	11.210	0.000	87	30240	1.00	0.8017	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	85	20878	1.00	0.9234	
117 1,2-Dibromo-3-Chloropropan	75	11.989	11.995	-0.006	1	1954	1.00	0.7932	M
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	64	13505	1.00	0.8399	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	45	5693	1.00	0.7405	
121 Naphthalene	128	12.883	12.877	0.006	79	38651	1.00	0.8794	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	62	12729	1.00	0.8584	
S 124 Xylenes, Total	1				0			1.79	
S 126 1,3-Dichloropropene, Total	1				0			1.70	
S 123 Total BTEX	1				0			4.52	
S 125 1,2-Dichloroethene, Total	1				0			1.74	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 1.00

Units: uL

GAS CORP mix_00287

Amount Added: 1.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D

Injection Date: 20-Jun-2018 14:14:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

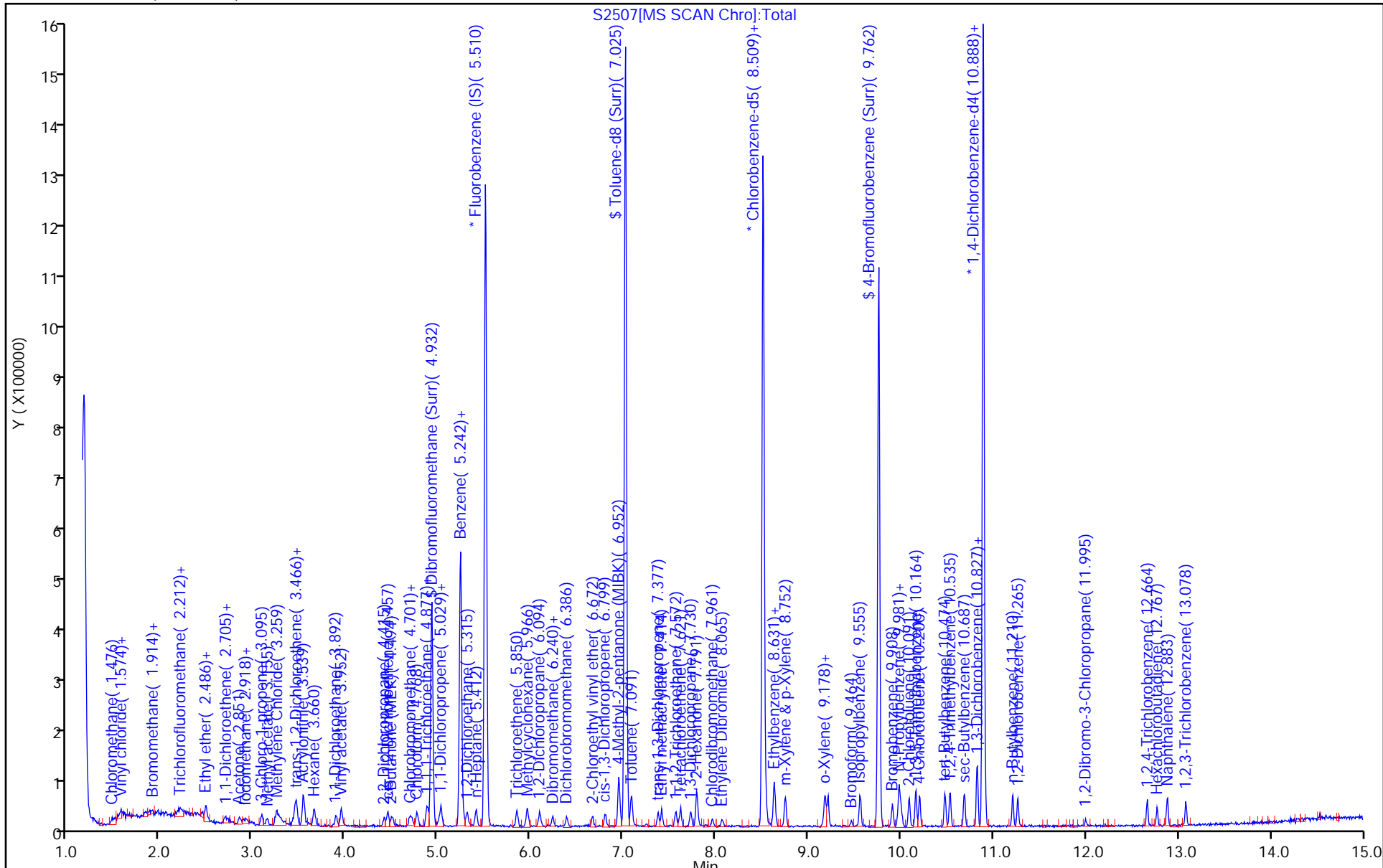
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

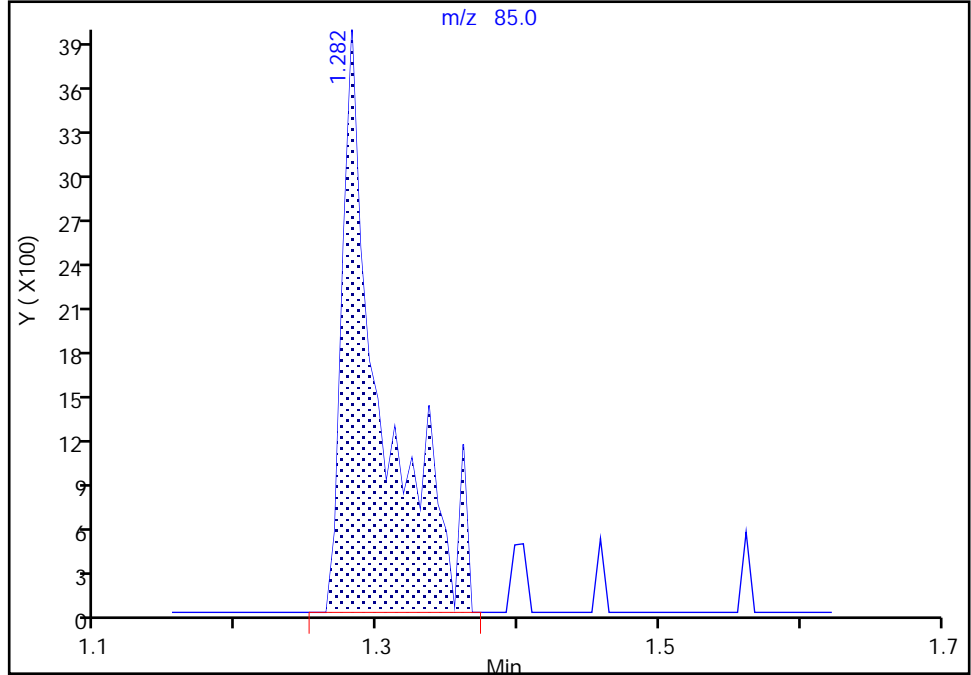
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

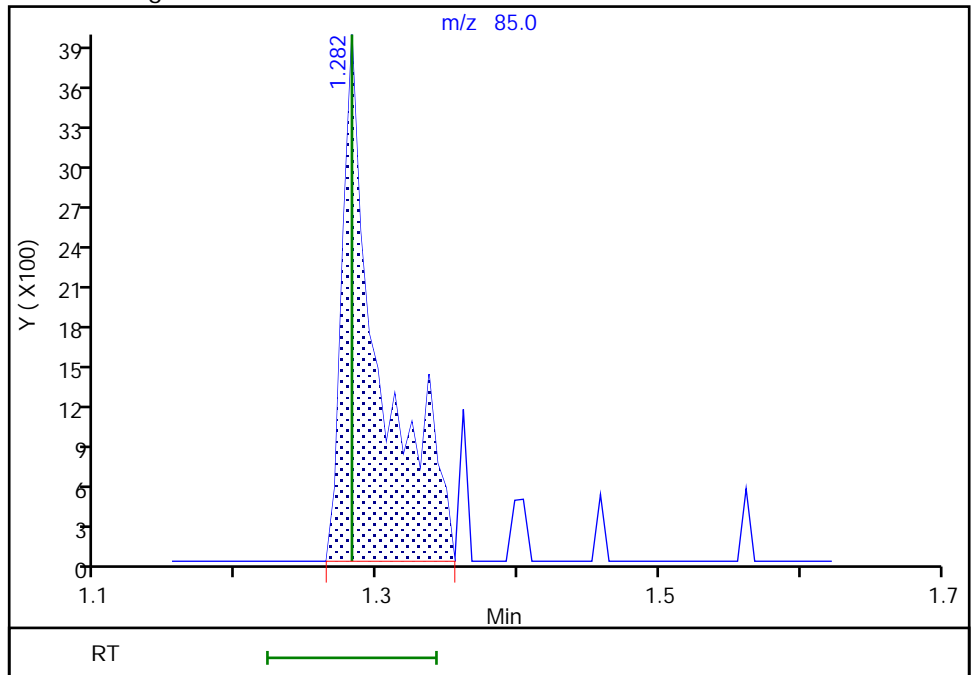
RT: 1.28
Area: 7767
Amount: 0.815608
Amount Units: ug/L

Processing Integration Results



RT: 1.28
Area: 7348
Amount: 0.777451
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:05:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

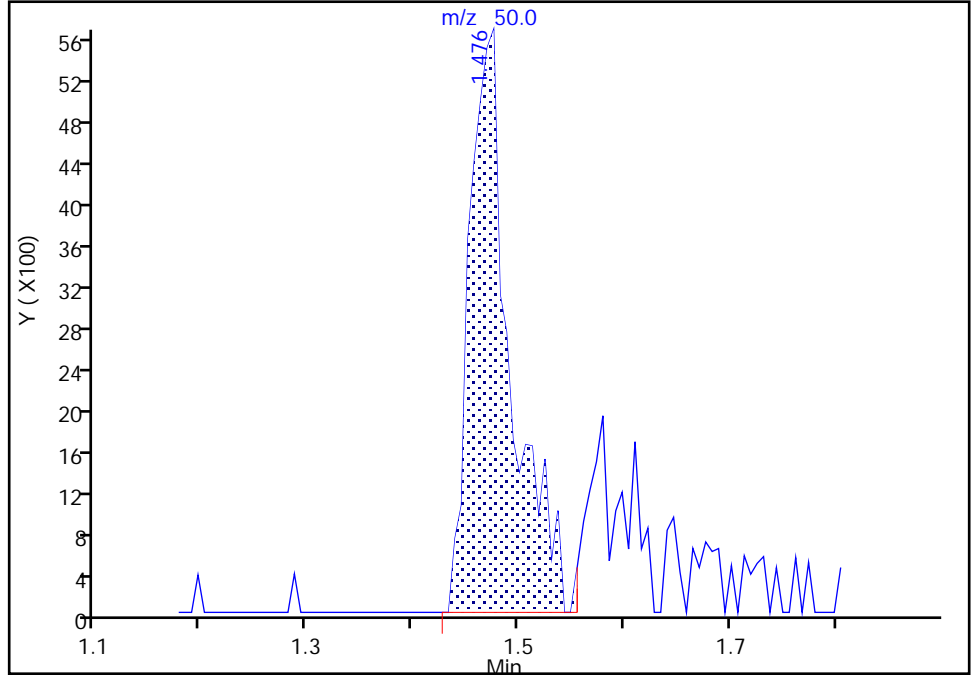
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

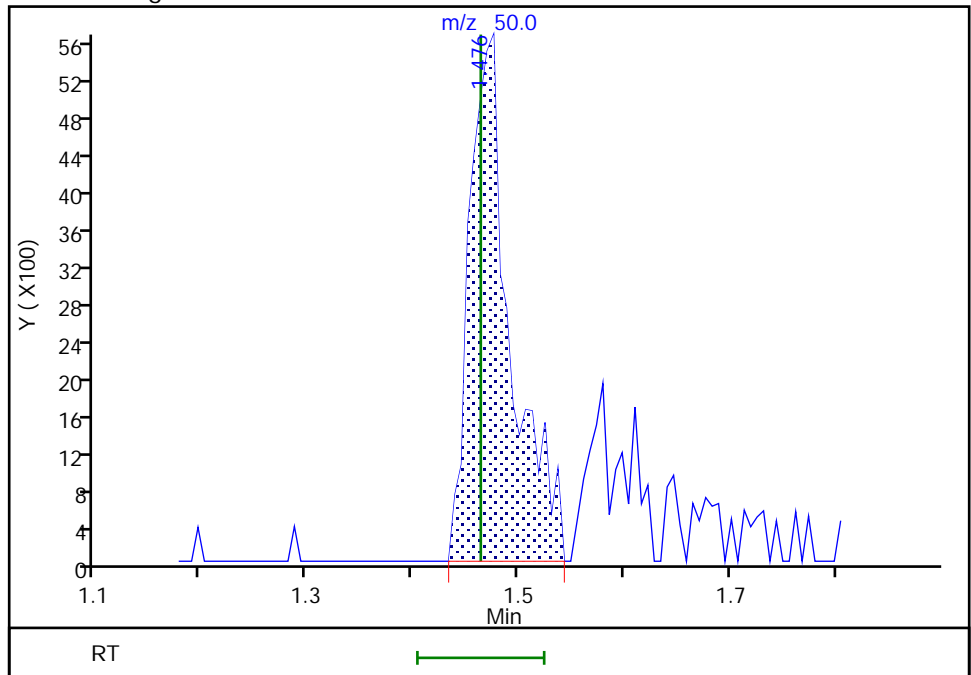
RT: 1.48
Area: 15473
Amount: 1.029331
Amount Units: ug/L

Processing Integration Results



RT: 1.48
Area: 15313
Amount: 1.020044
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:05:22
Audit Action: Manually Integrated

TestAmerica Buffalo

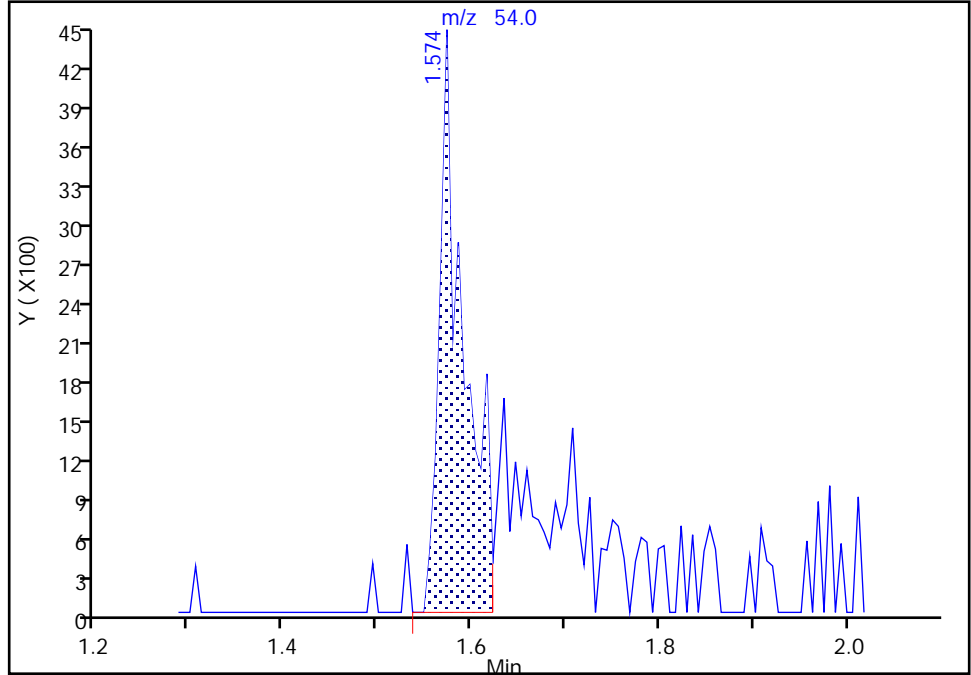
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

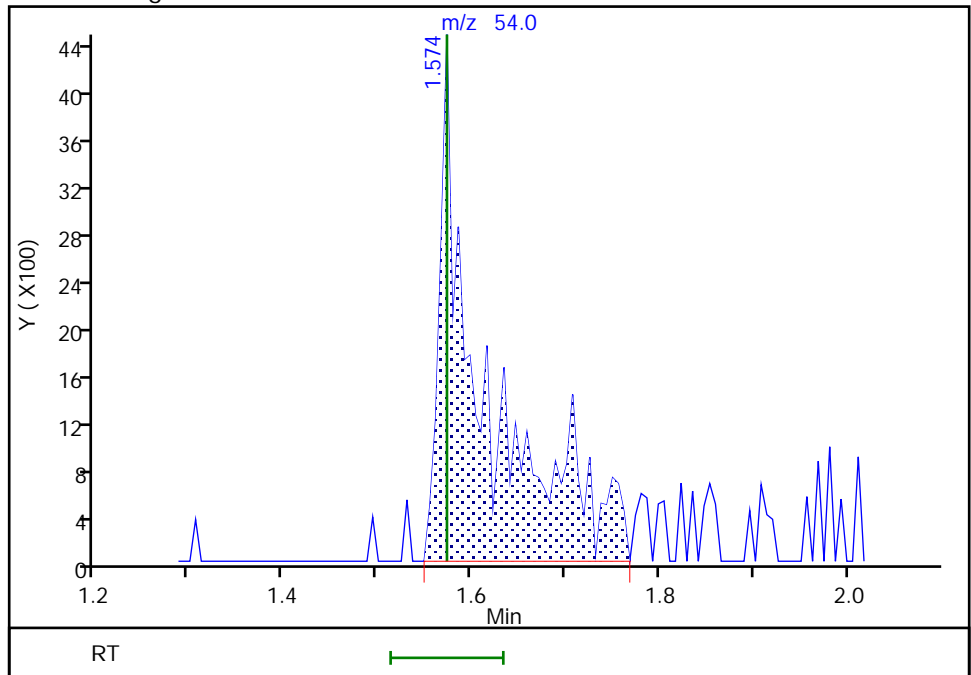
RT: 1.57
Area: 7860
Amount: 0.579263
Amount Units: ug/L

Processing Integration Results



RT: 1.57
Area: 14101
Amount: 1.012805
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:55:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

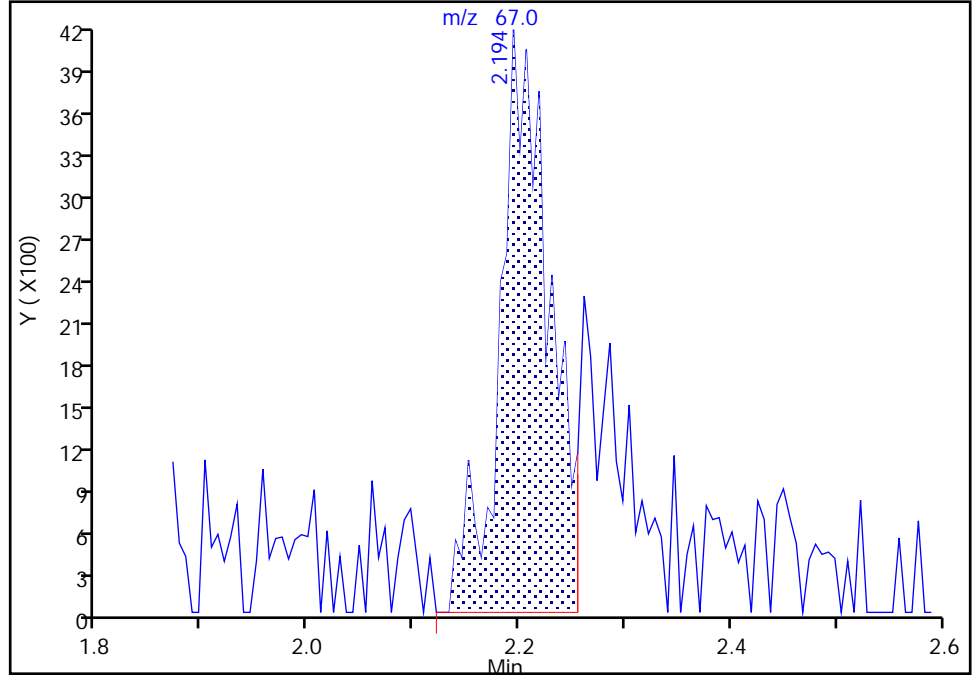
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

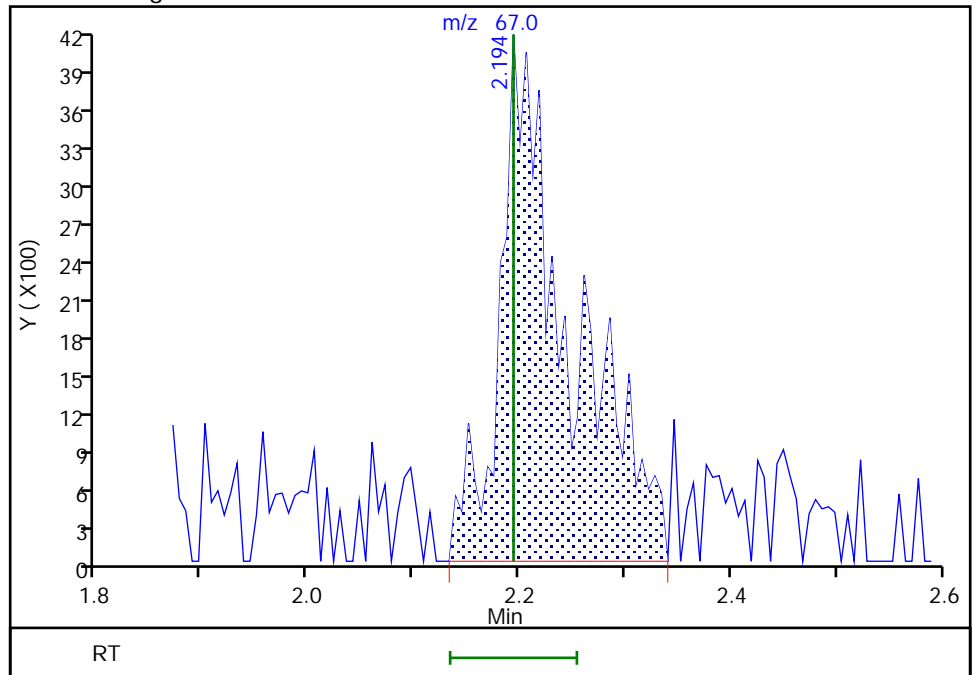
RT: 2.19
Area: 13440
Amount: 0.850503
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 18841
Amount: 1.064342
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:49:44
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

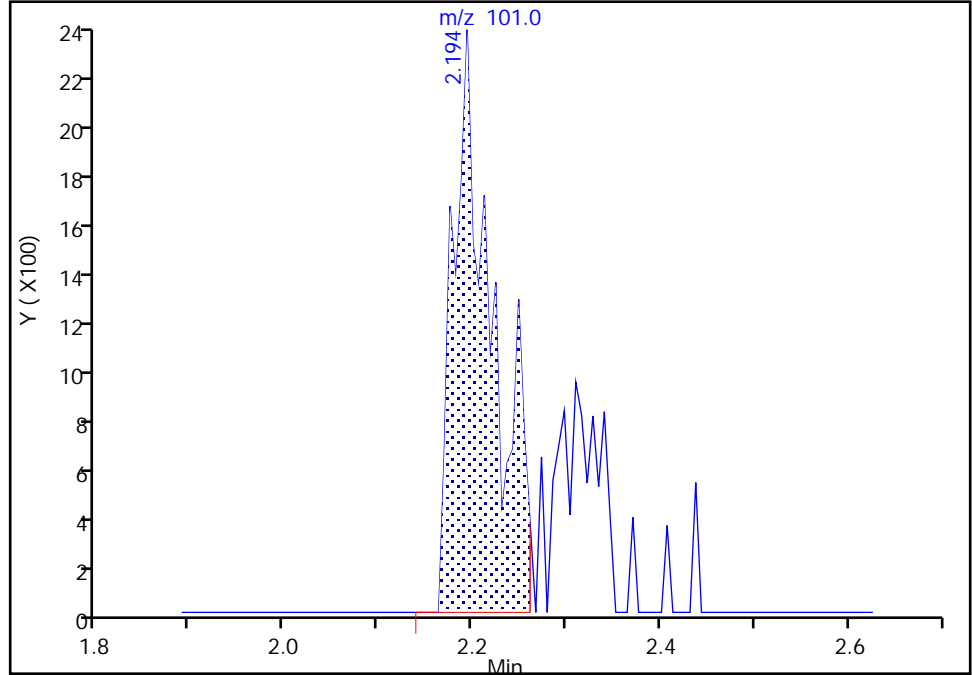
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

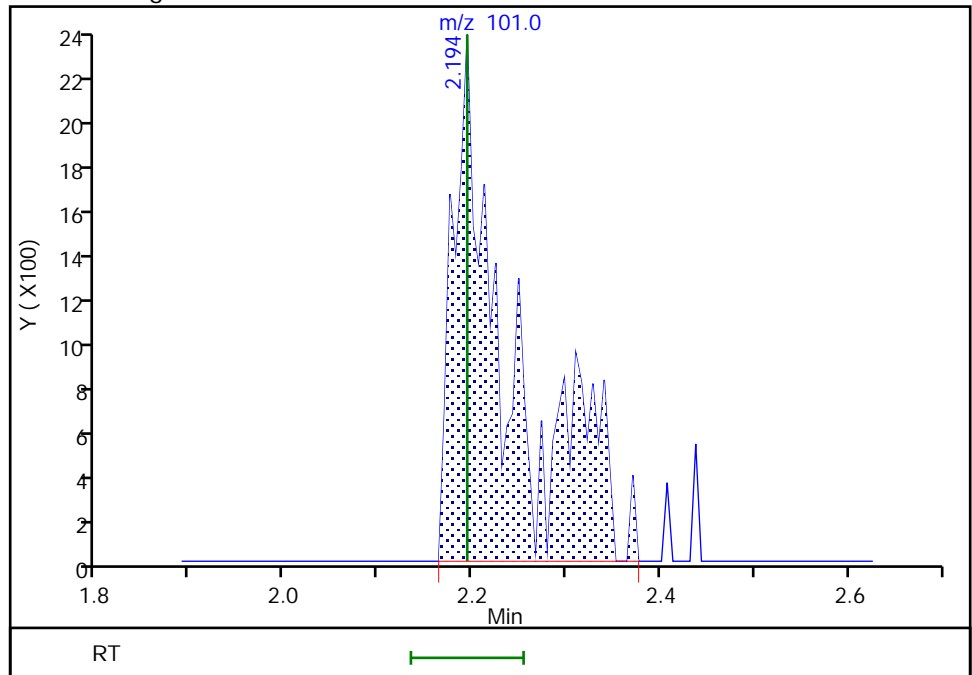
RT: 2.19
Area: 6814
Amount: 0.799434
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 9809
Amount: 0.775455
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:46:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 140 of 444

TestAmerica Buffalo

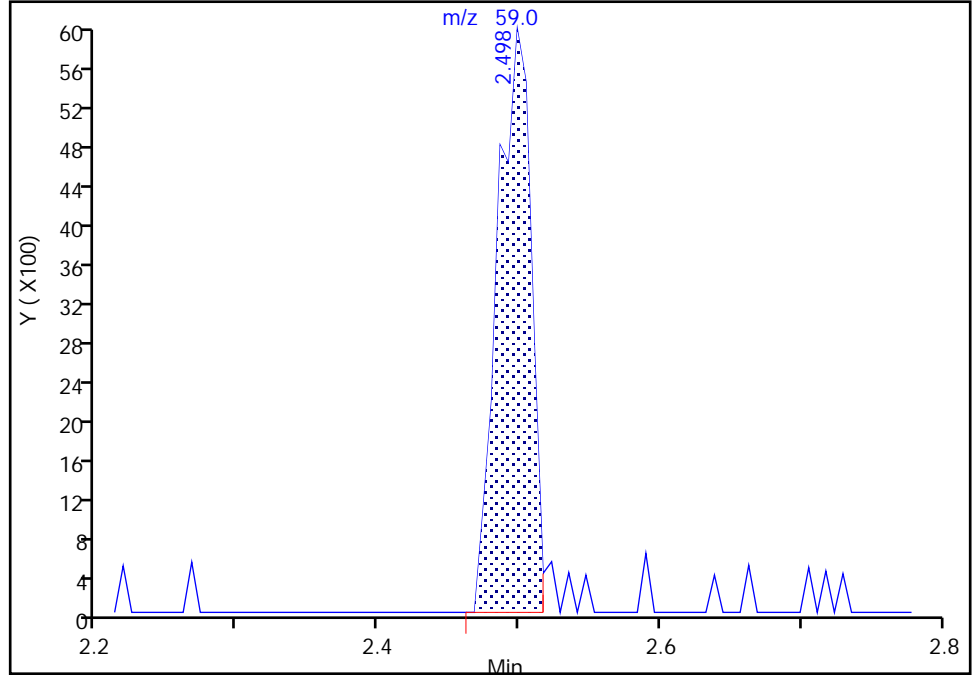
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

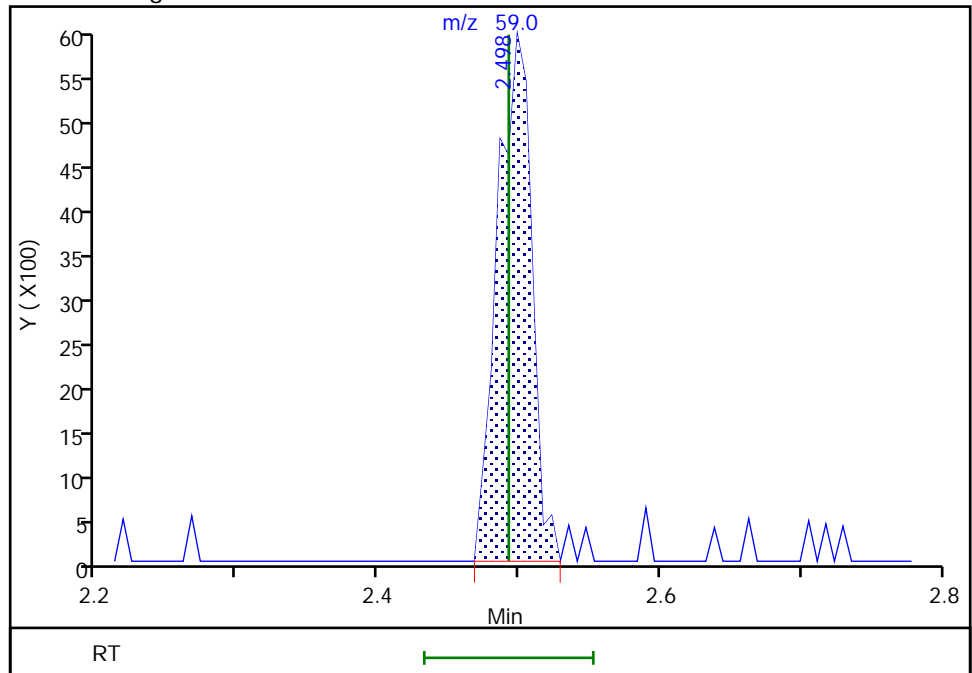
RT: 2.50
Area: 9925
Amount: 0.883933
Amount Units: ug/L

Processing Integration Results



RT: 2.50
Area: 10116
Amount: 0.899032
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:06:08
Audit Action: Manually Integrated

TestAmerica Buffalo

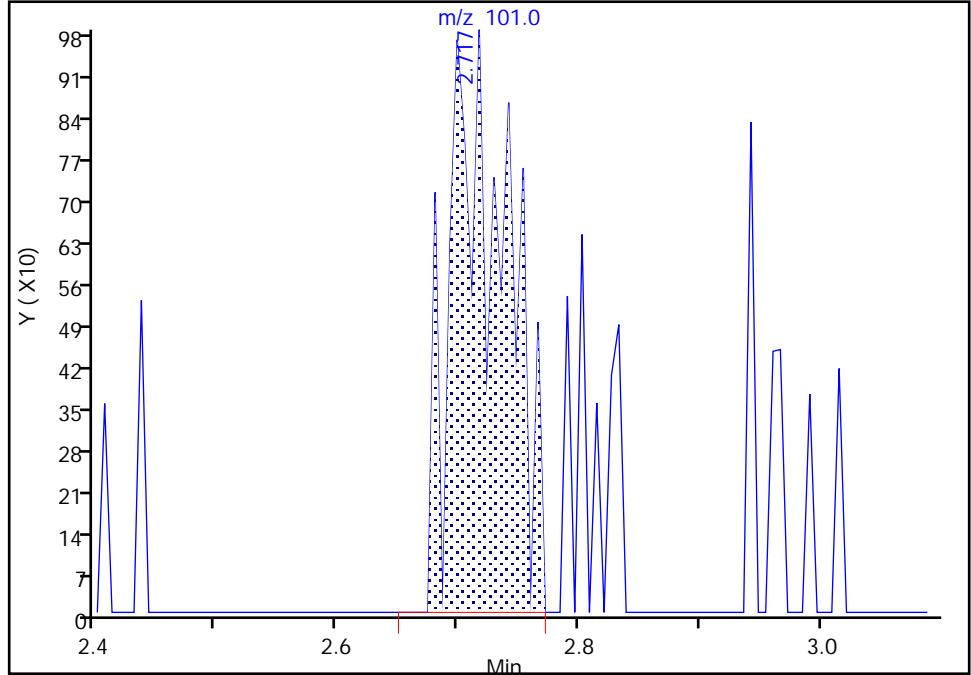
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

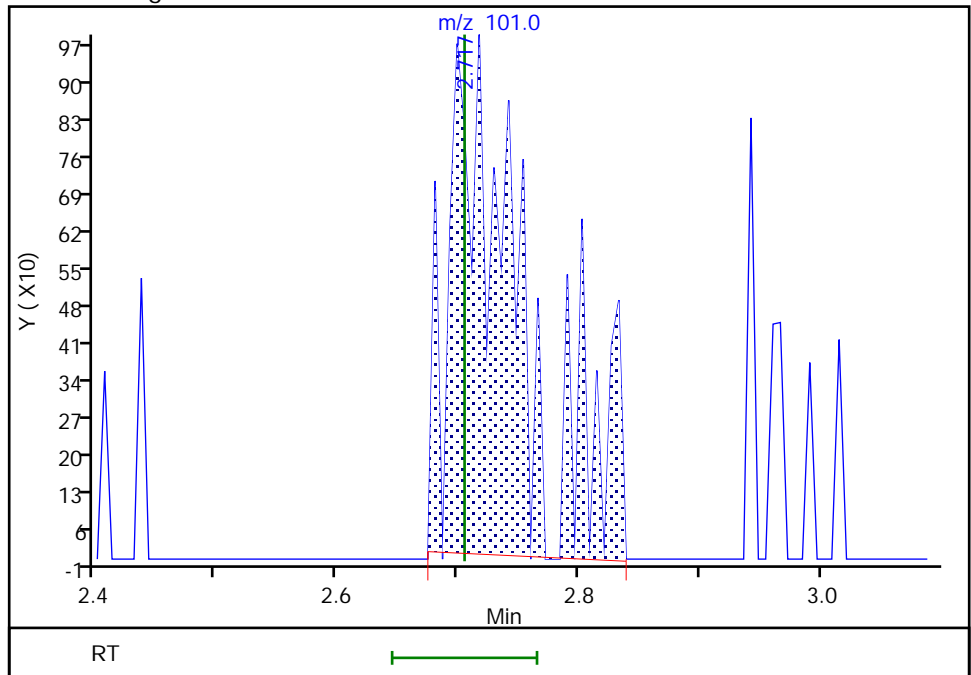
RT: 2.72
Area: 3185
Amount: 0.461181
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 4012
Amount: 0.885545
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

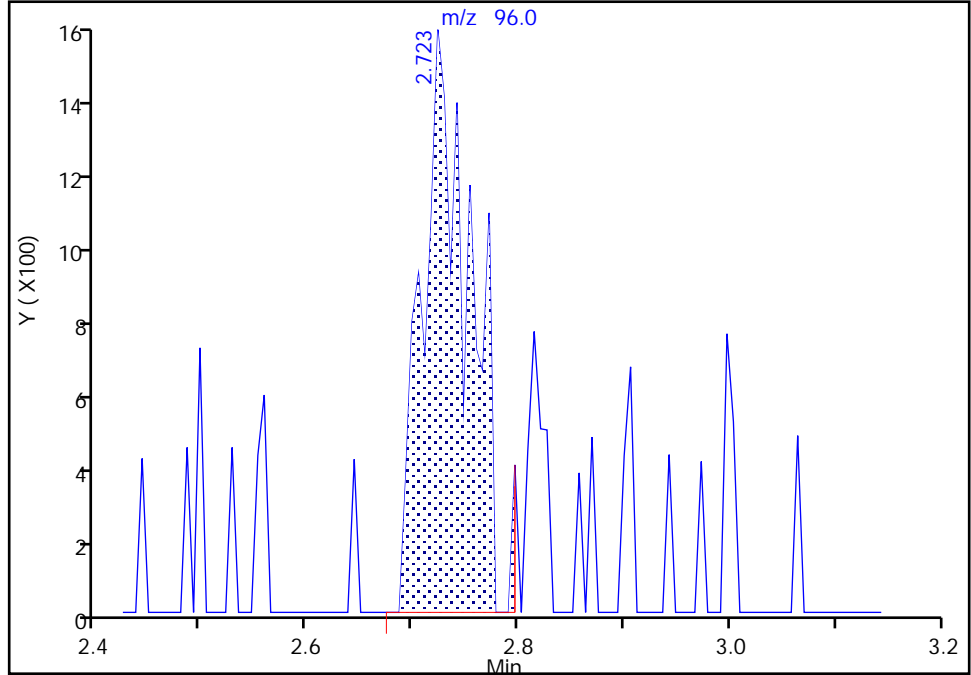
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

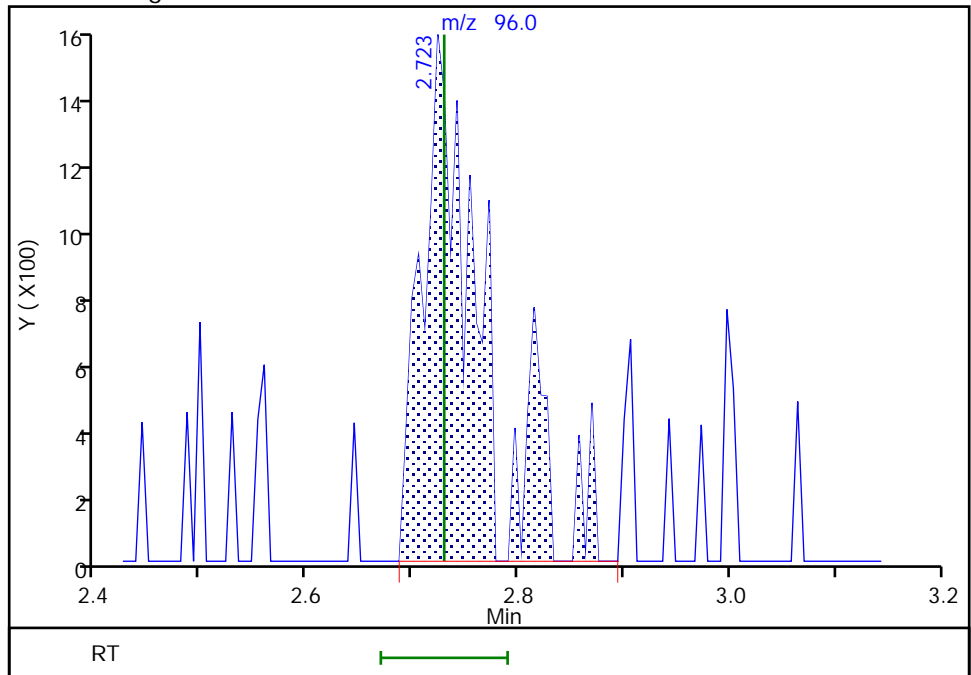
RT: 2.72
Area: 4813
Amount: 0.549905
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 5891
Amount: 0.679625
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:47:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

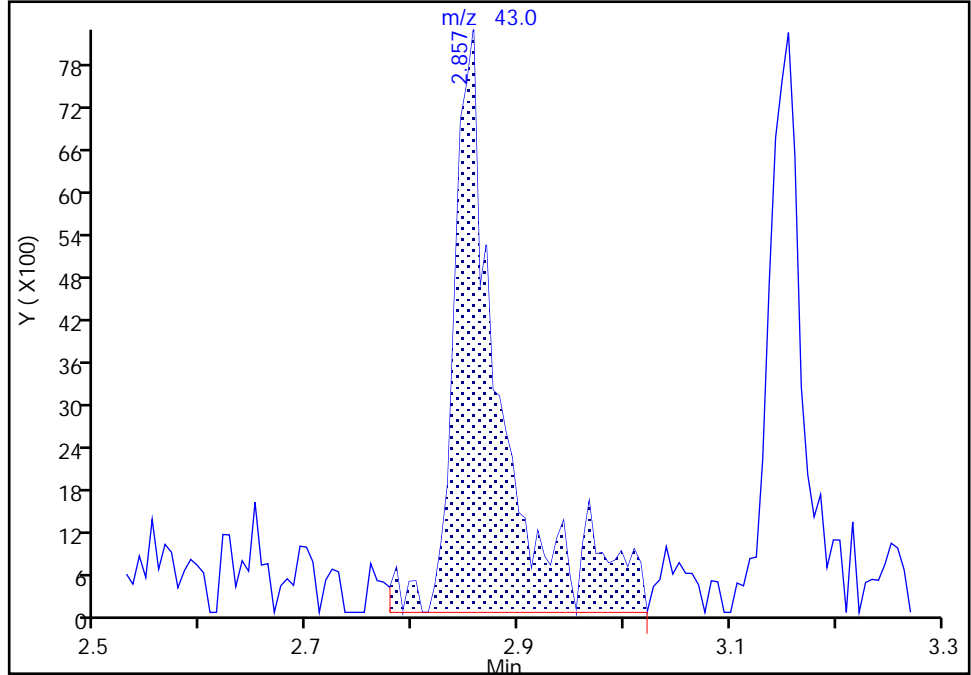
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

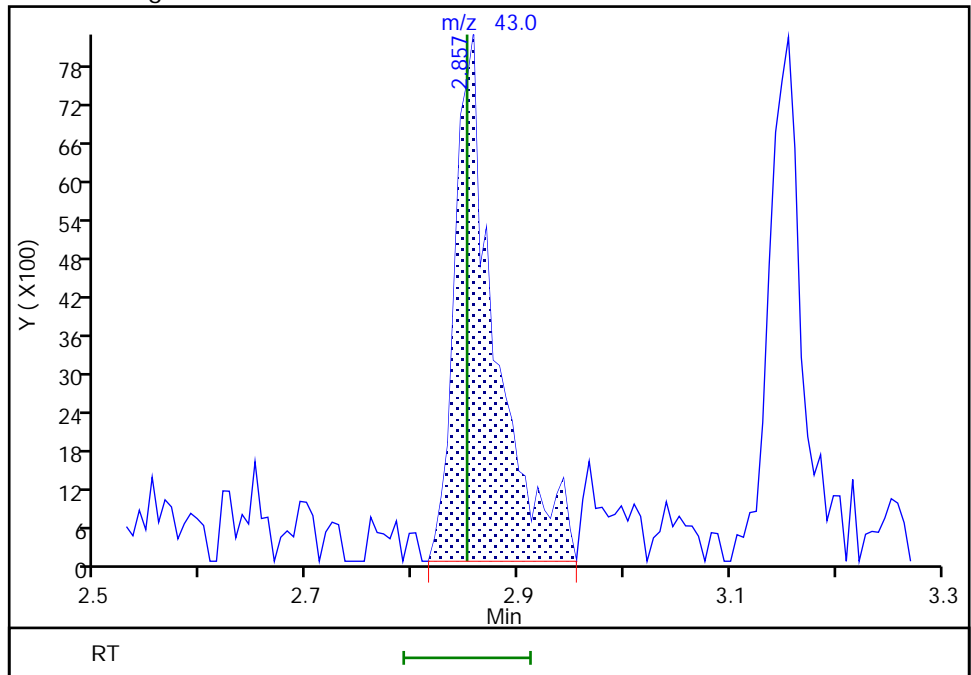
RT: 2.86
Area: 25800
Amount: 5.650467
Amount Units: ug/L

Processing Integration Results



RT: 2.86
Area: 21919
Amount: 5.805718
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:07:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

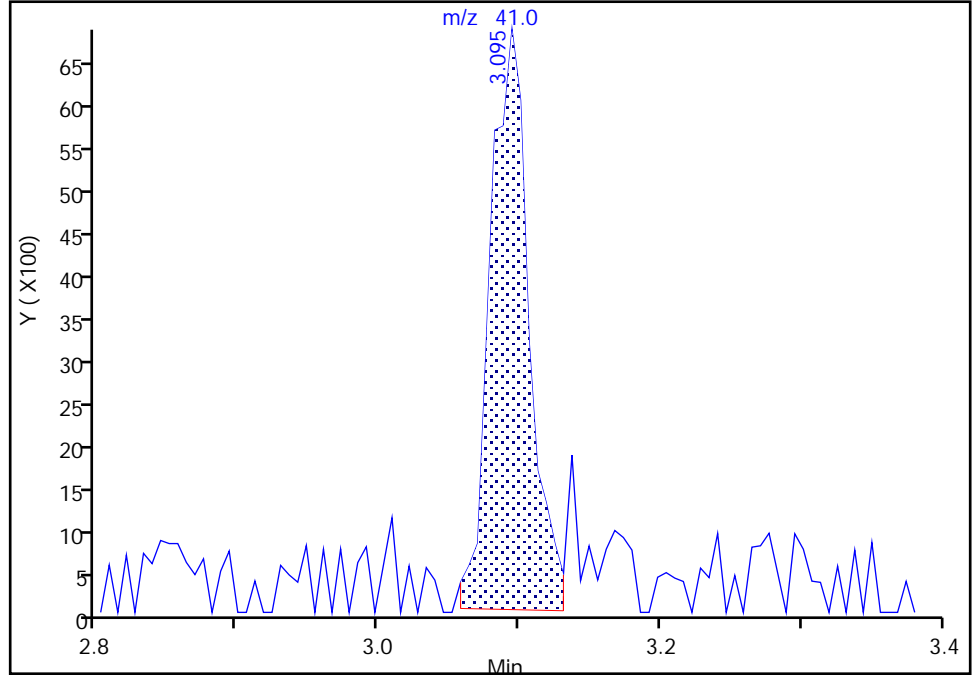
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

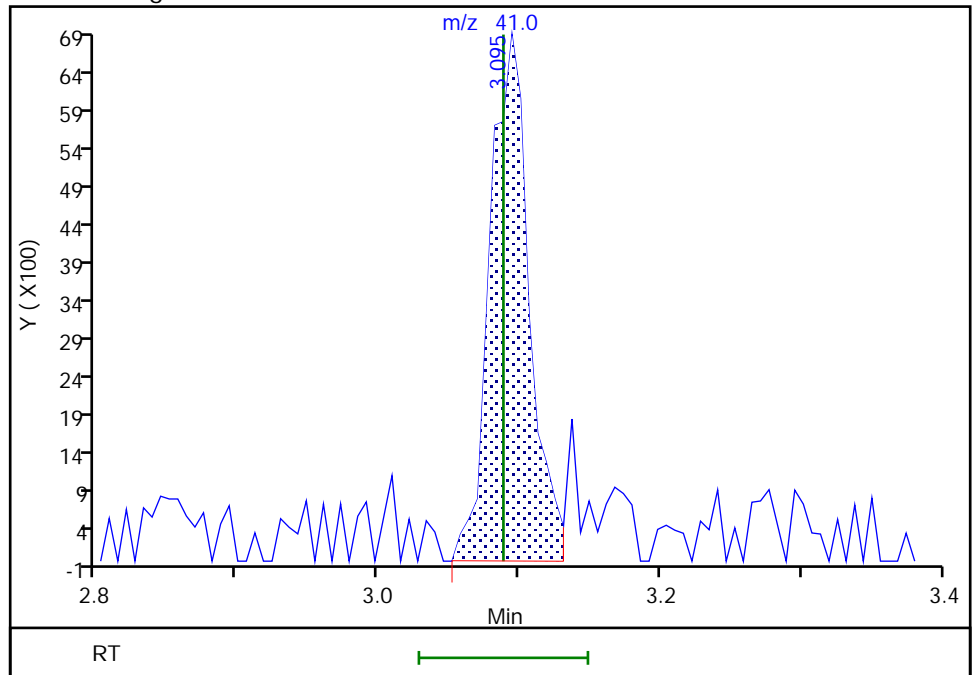
RT: 3.09
Area: 13141
Amount: 0.782798
Amount Units: ug/L

Processing Integration Results



RT: 3.09
Area: 13283
Amount: 0.790421
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:08:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

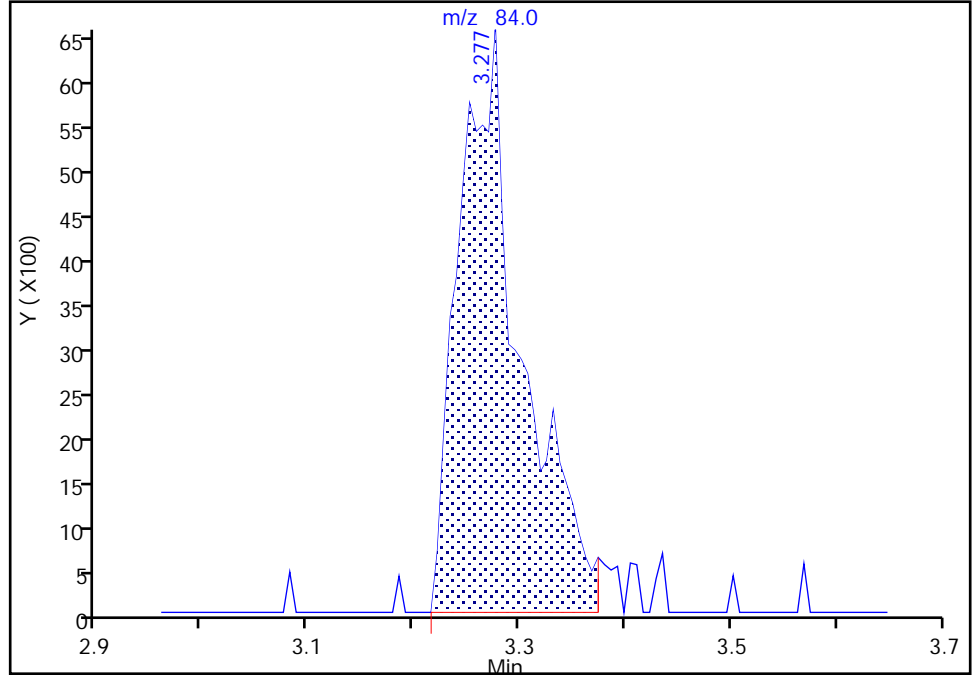
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

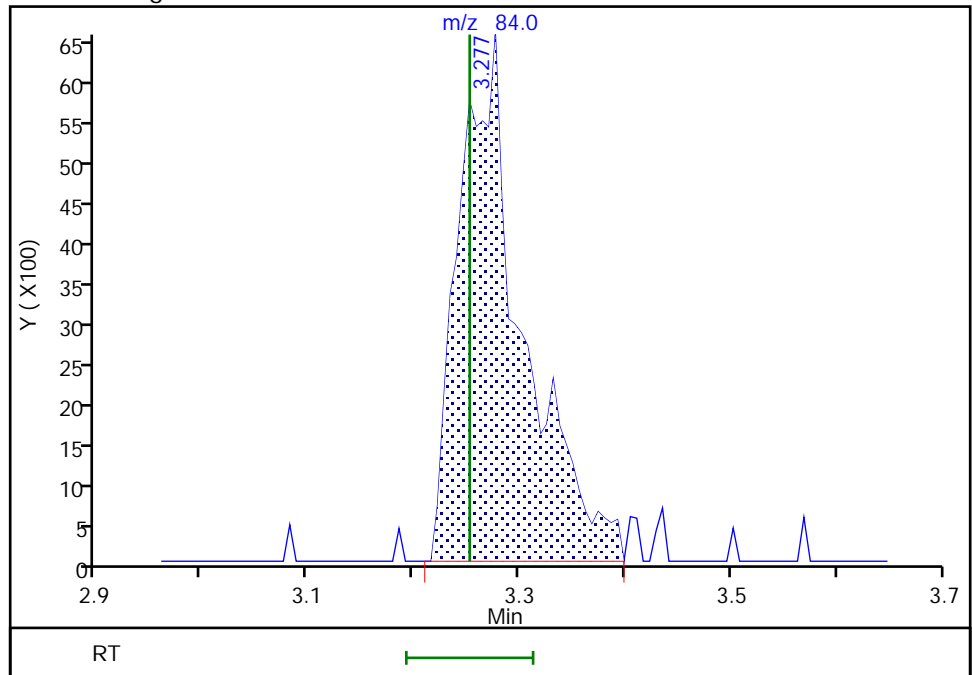
RT: 3.28
Area: 26844
Amount: 0.746640
Amount Units: ug/L

Processing Integration Results



RT: 3.28
Area: 27400
Amount: 0.766220
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:08:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

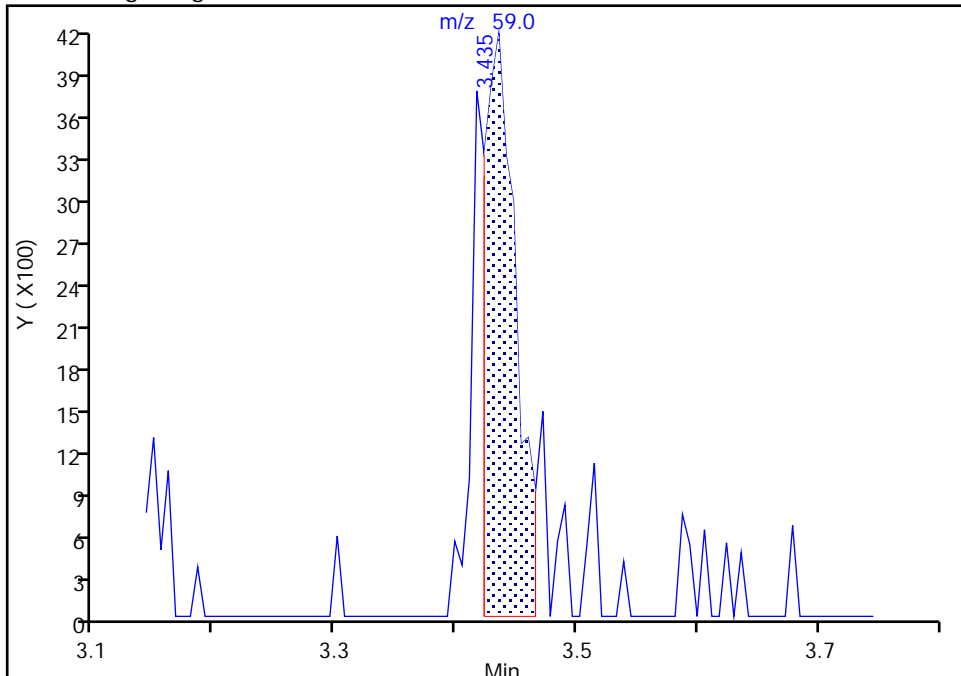
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

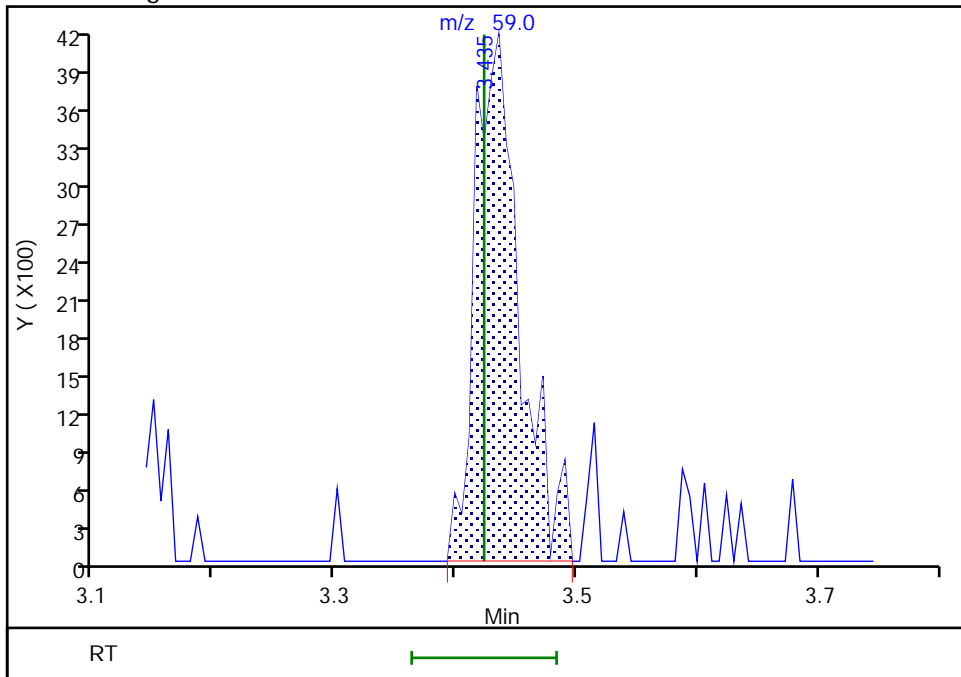
RT: 3.44
Area: 7629
Amount: 7.104469
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 10697
Amount: 8.362223
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:52:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

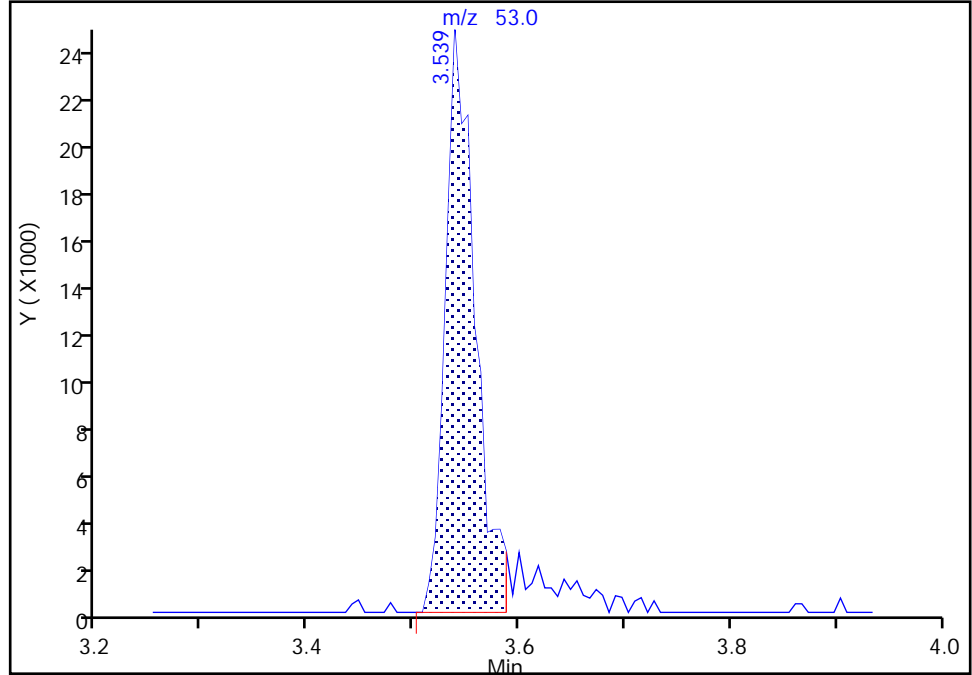
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

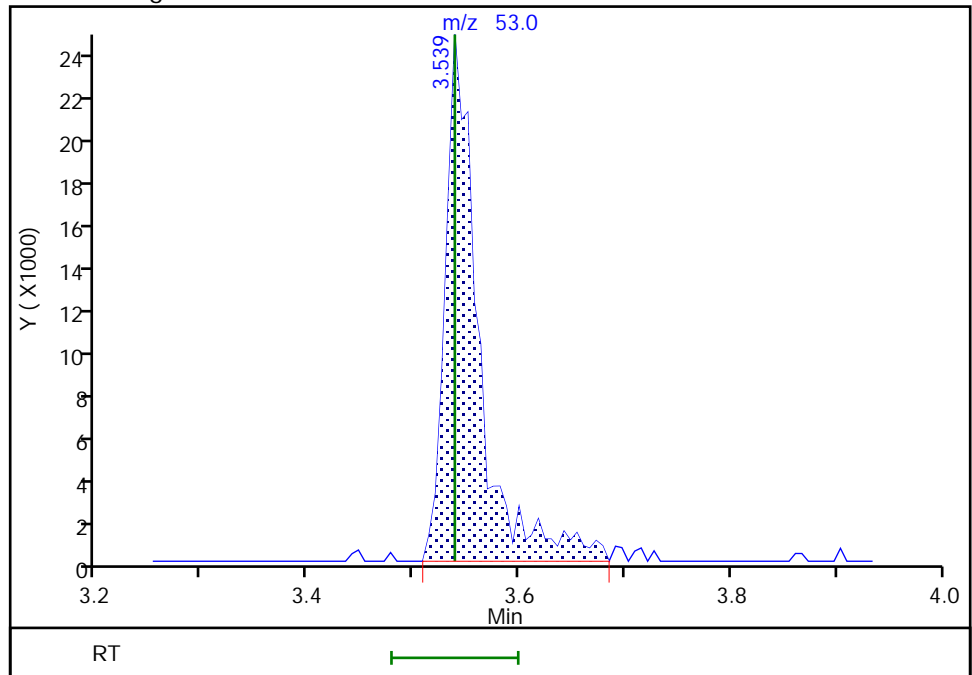
RT: 3.54
Area: 47894
Amount: 9.225375
Amount Units: ug/L

Processing Integration Results



RT: 3.54
Area: 54039
Amount: 10.257266
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:09:17
Audit Action: Manually Integrated

TestAmerica Buffalo

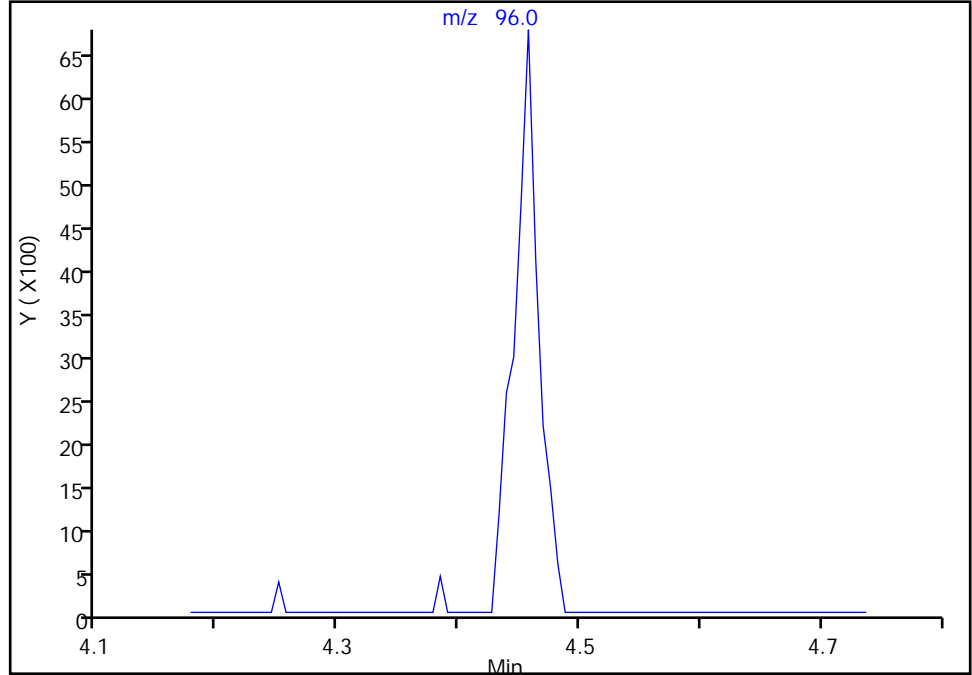
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

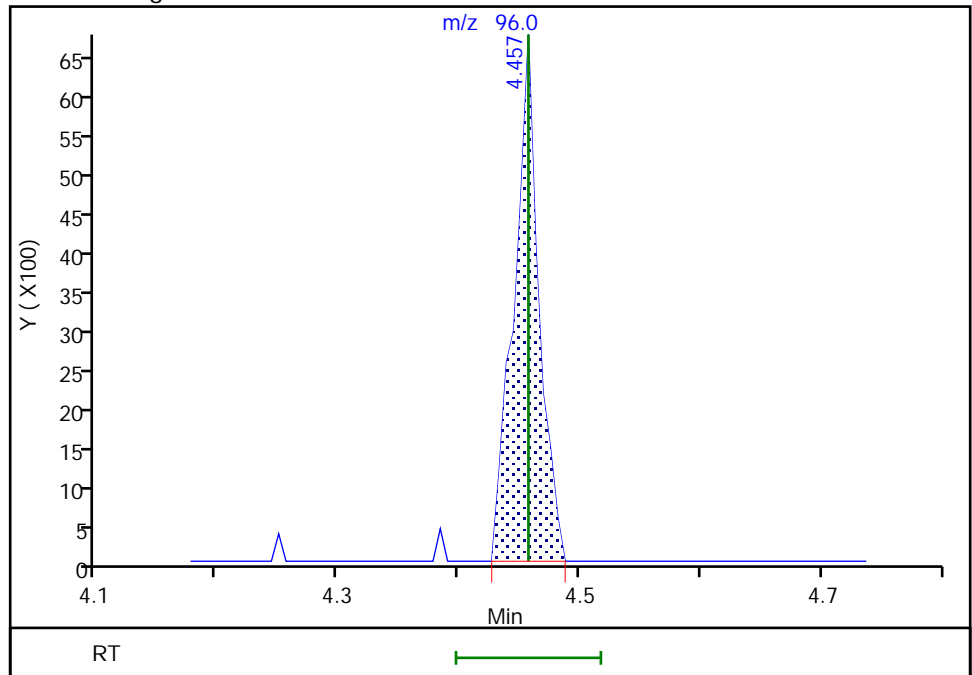
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 9571
Amount: 0.839608
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:09:29
Audit Action: Manually Integrated

TestAmerica Buffalo

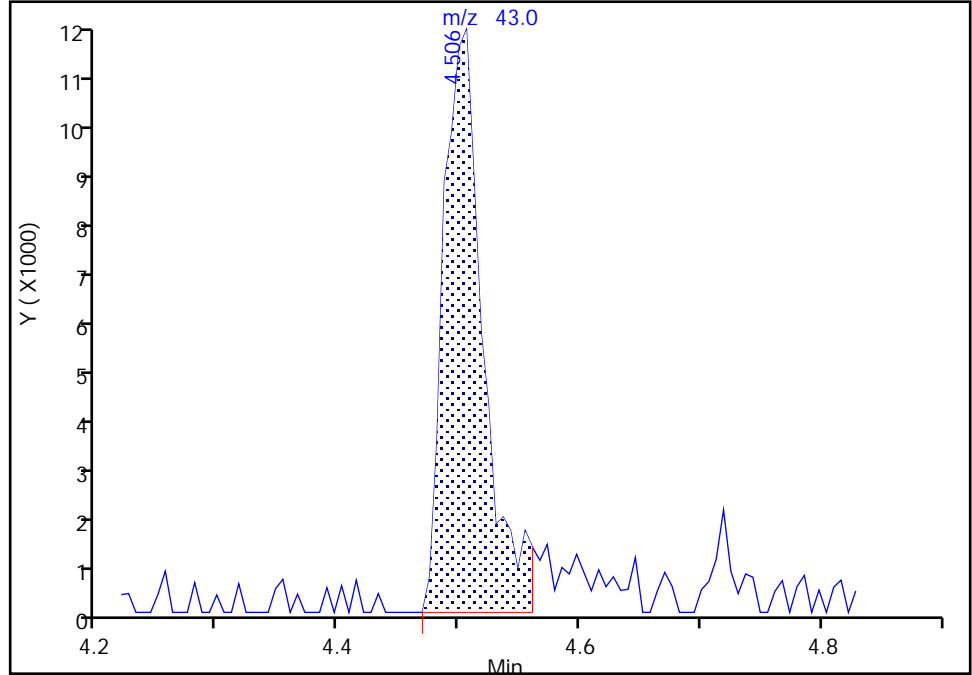
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

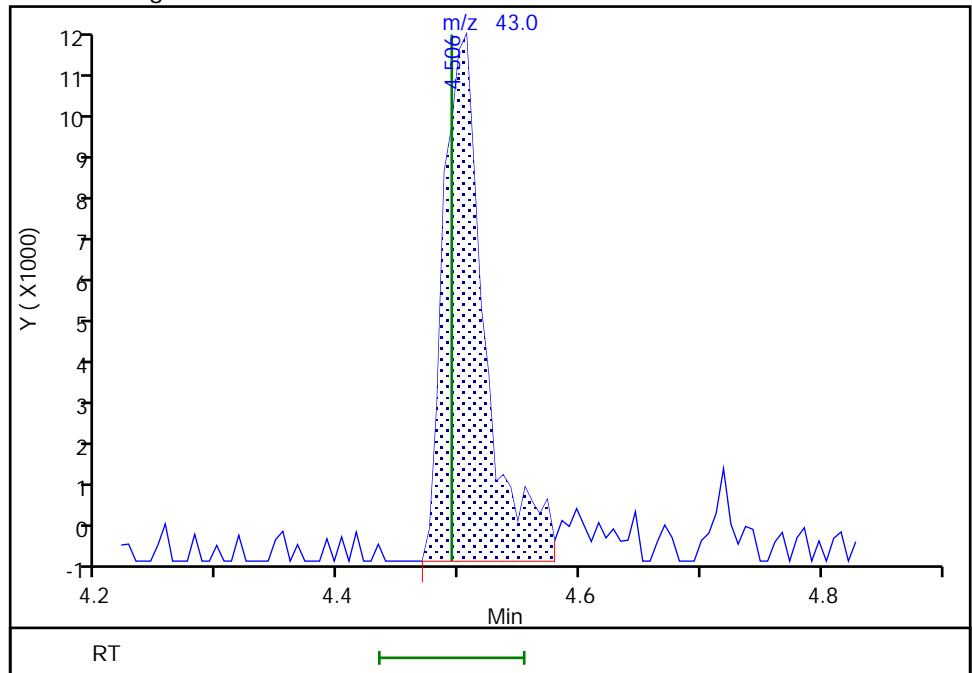
RT: 4.51
Area: 26981
Amount: 4.675650
Amount Units: ug/L

Processing Integration Results



RT: 4.51
Area: 28054
Amount: 4.839100
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:12:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

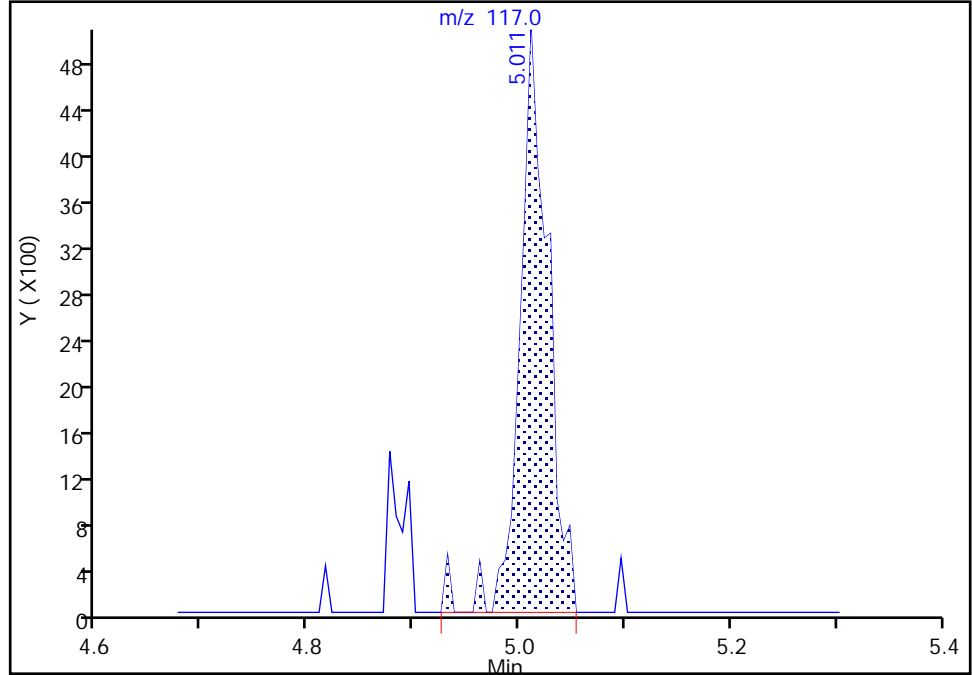
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

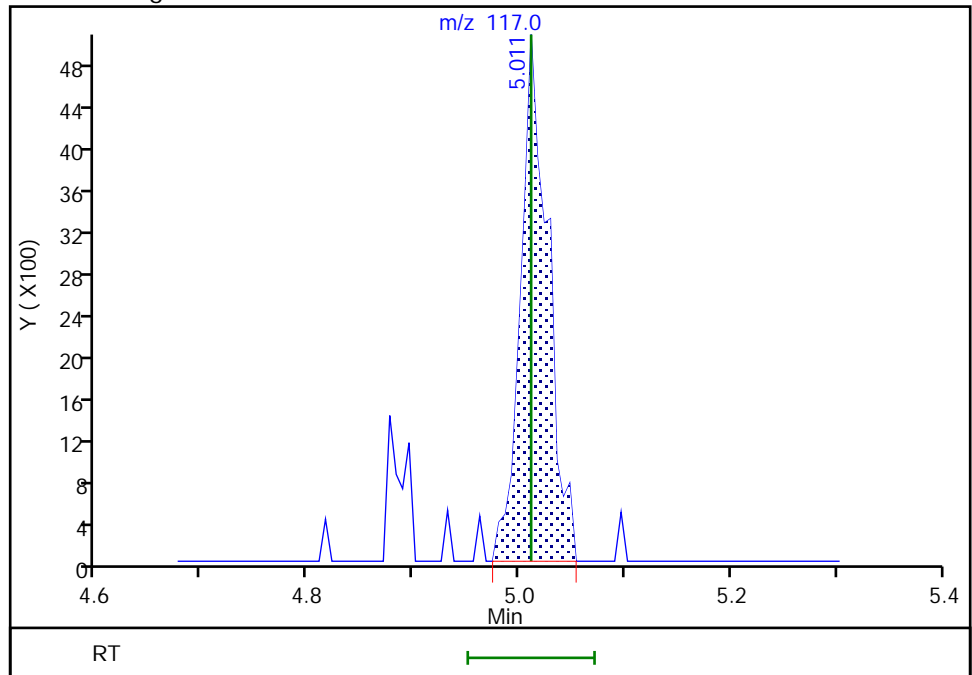
RT: 5.01
Area: 9483
Amount: 0.829824
Amount Units: ug/L

Processing Integration Results



RT: 5.01
Area: 9145
Amount: 0.803217
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:12:40
Audit Action: Manually Integrated

TestAmerica Buffalo

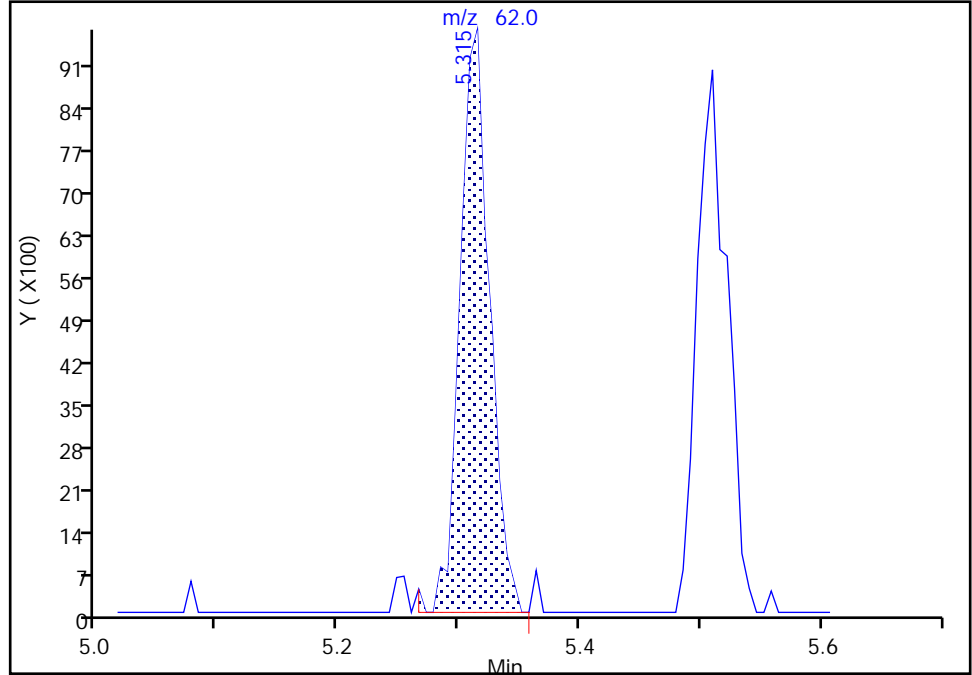
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

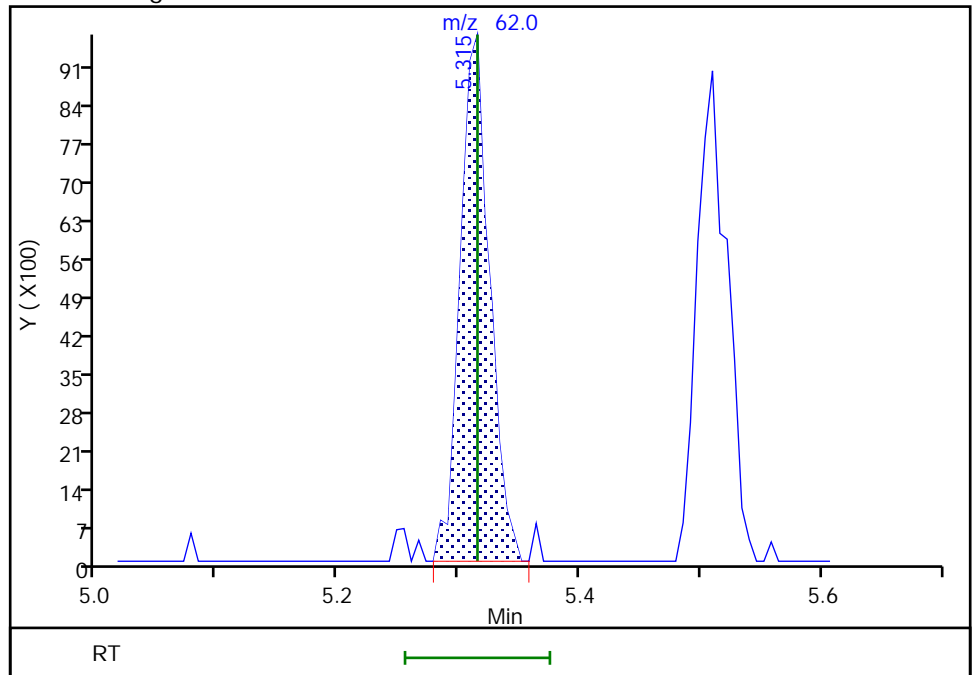
RT: 5.32
Area: 16387
Amount: 0.973266
Amount Units: ug/L

Processing Integration Results



RT: 5.32
Area: 16247
Amount: 0.965955
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:13:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

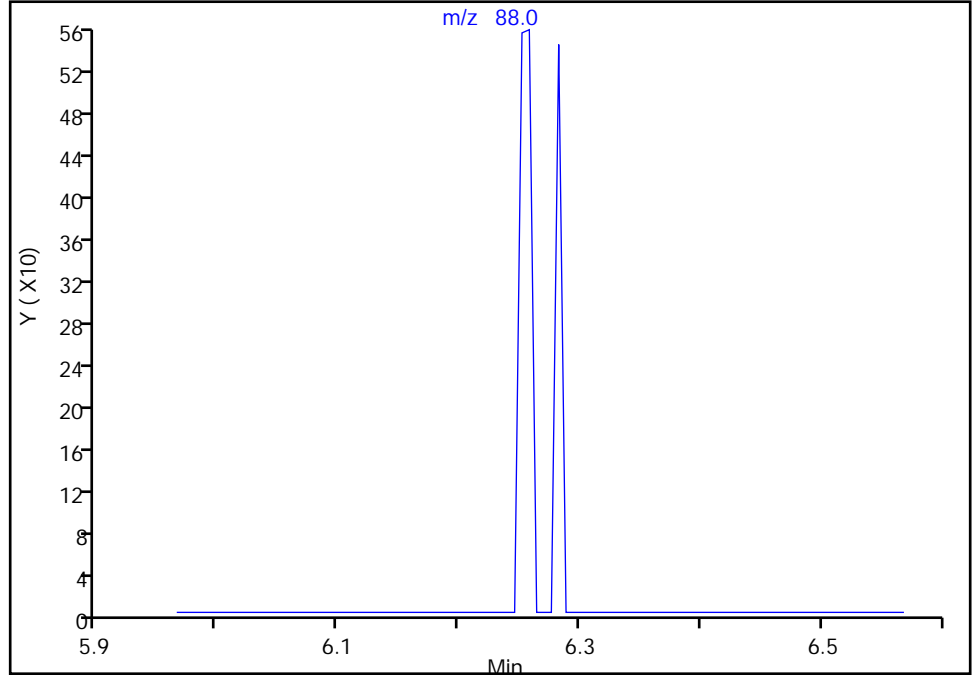
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

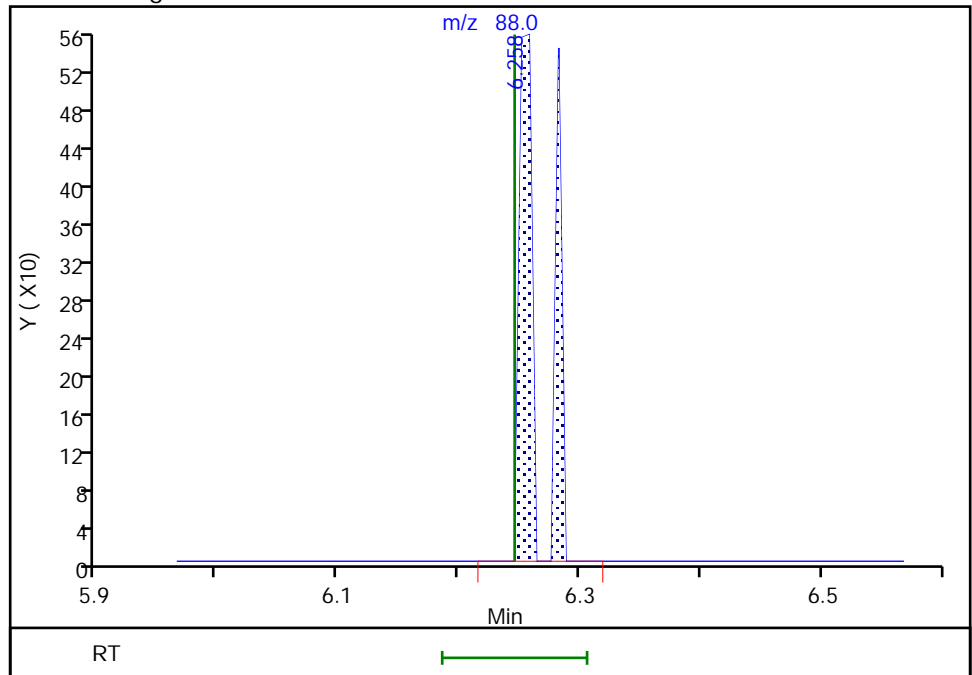
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 597
Amount: 20.073889
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:13:31
Audit Action: Manually Integrated

TestAmerica Buffalo

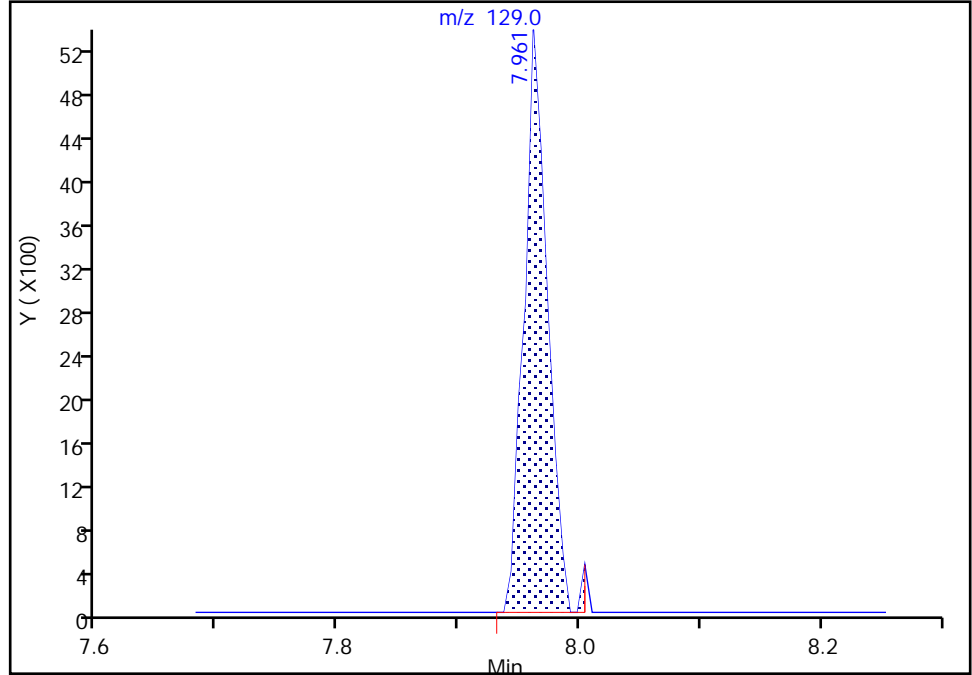
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

83 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

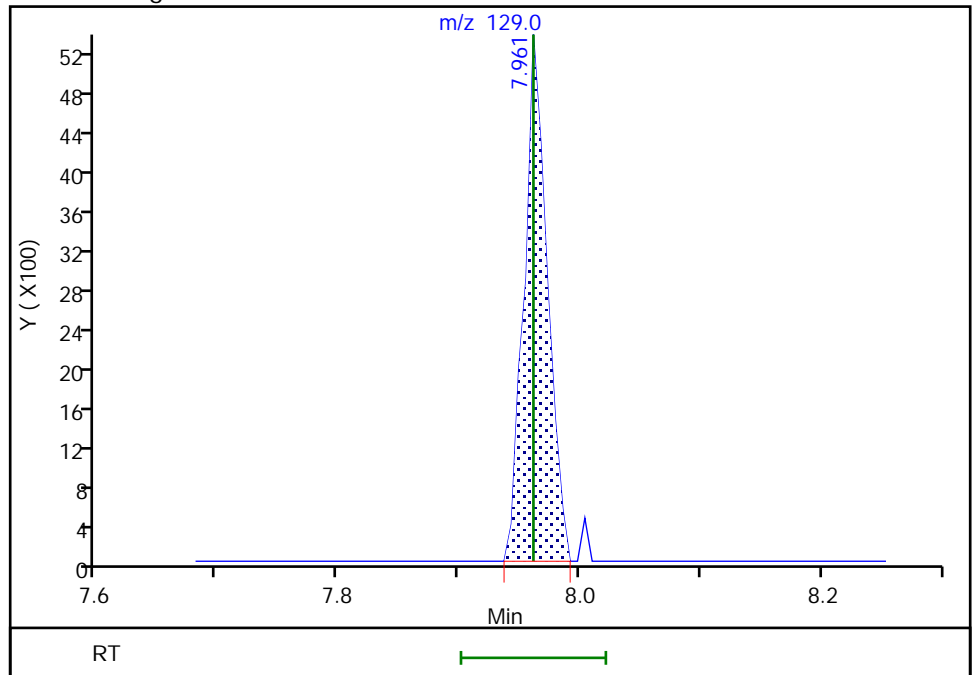
RT: 7.96
Area: 7317
Amount: 0.828185
Amount Units: ug/L

Processing Integration Results



RT: 7.96
Area: 7156
Amount: 0.811811
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:14:35
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

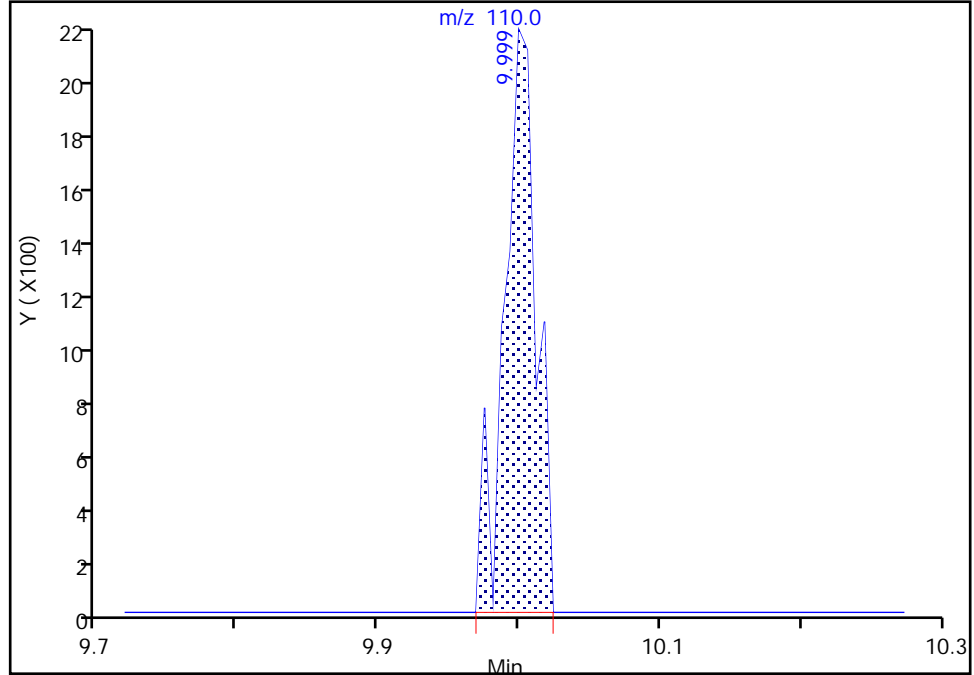
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

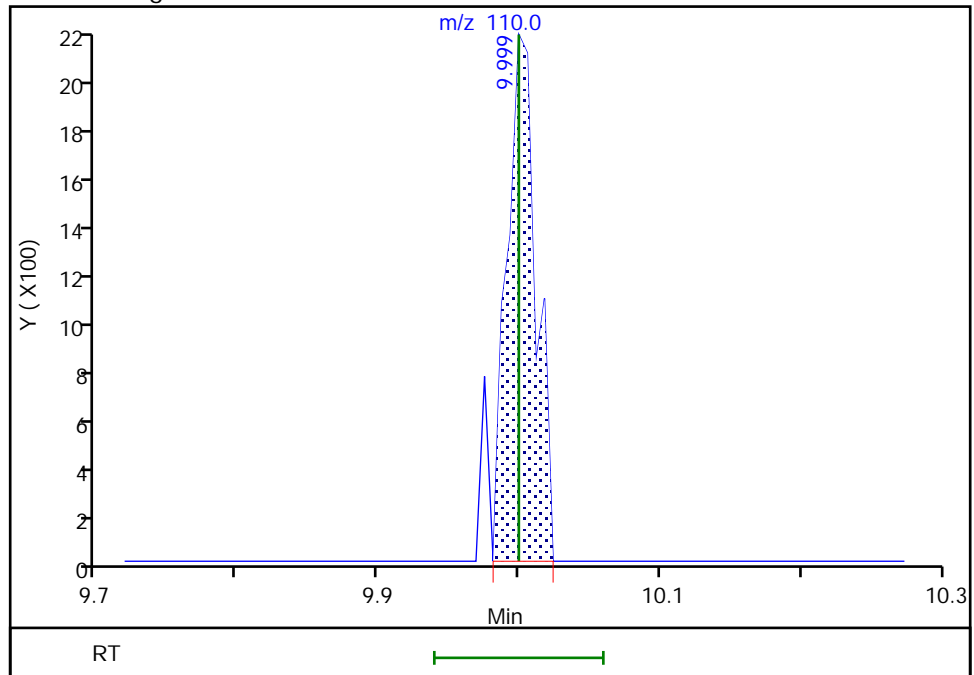
RT: 10.00
Area: 3397
Amount: 0.806128
Amount Units: ug/L

Processing Integration Results



RT: 10.00
Area: 3120
Amount: 0.746528
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:00
Audit Action: Manually Integrated

TestAmerica Buffalo

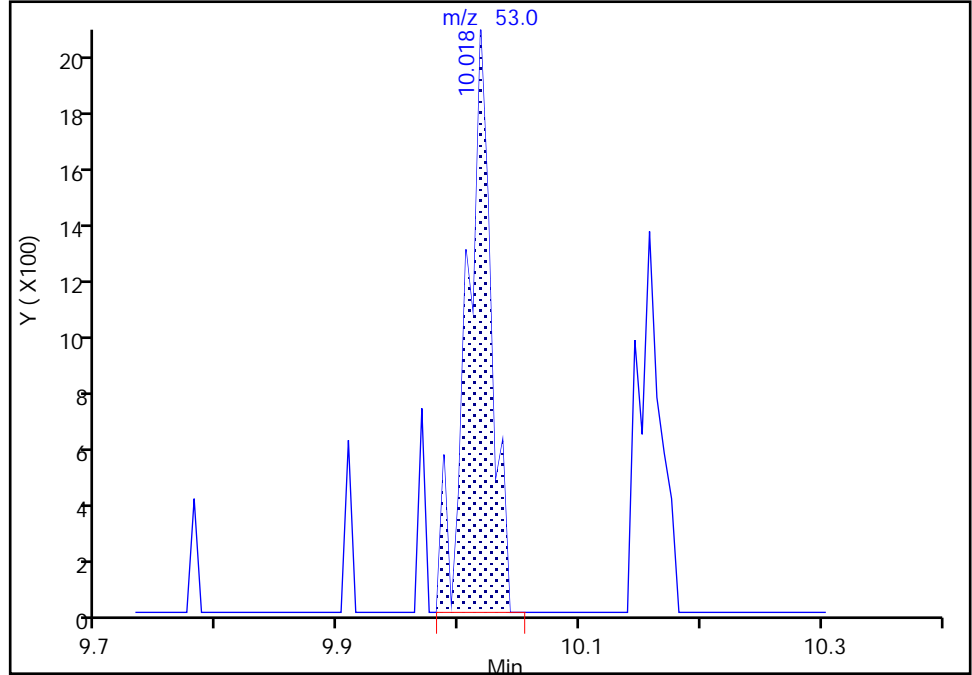
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

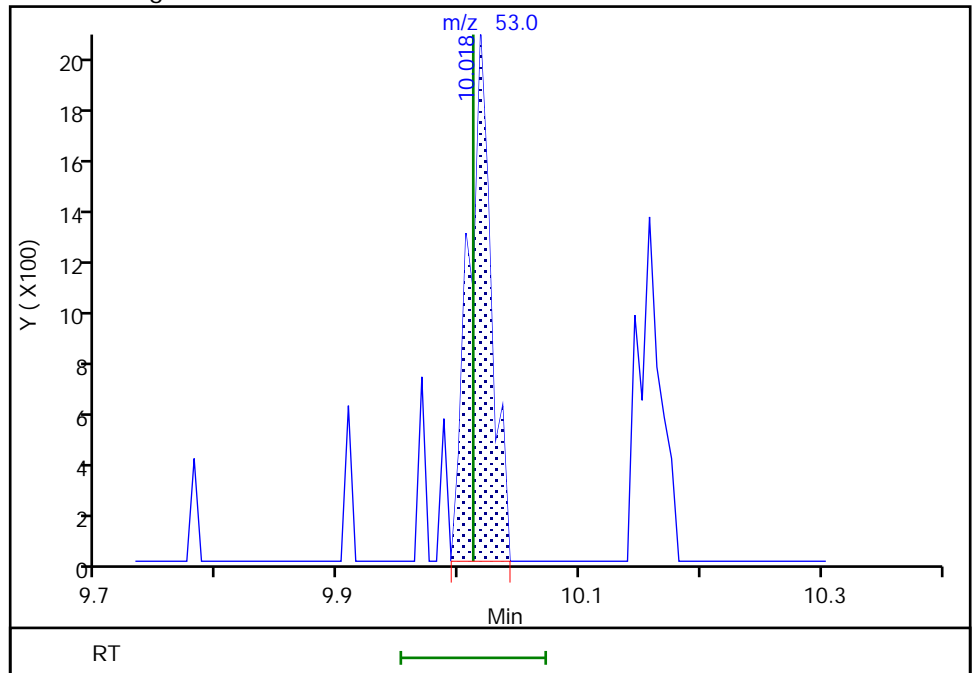
RT: 10.02
Area: 2886
Amount: 1.070549
Amount Units: ug/L

Processing Integration Results



RT: 10.02
Area: 2682
Amount: 1.162748
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

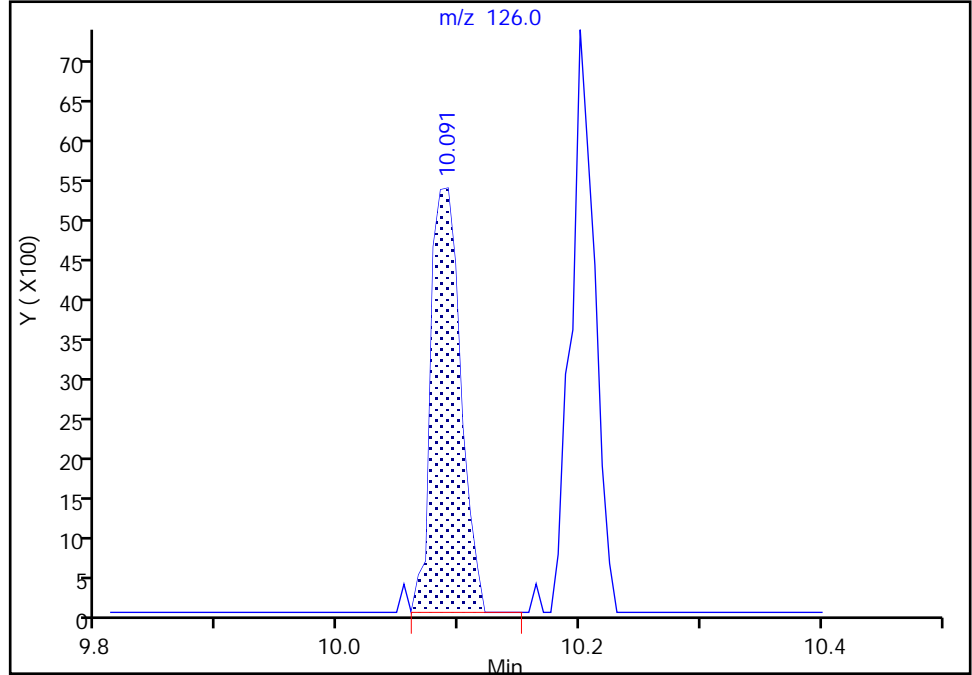
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

103 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

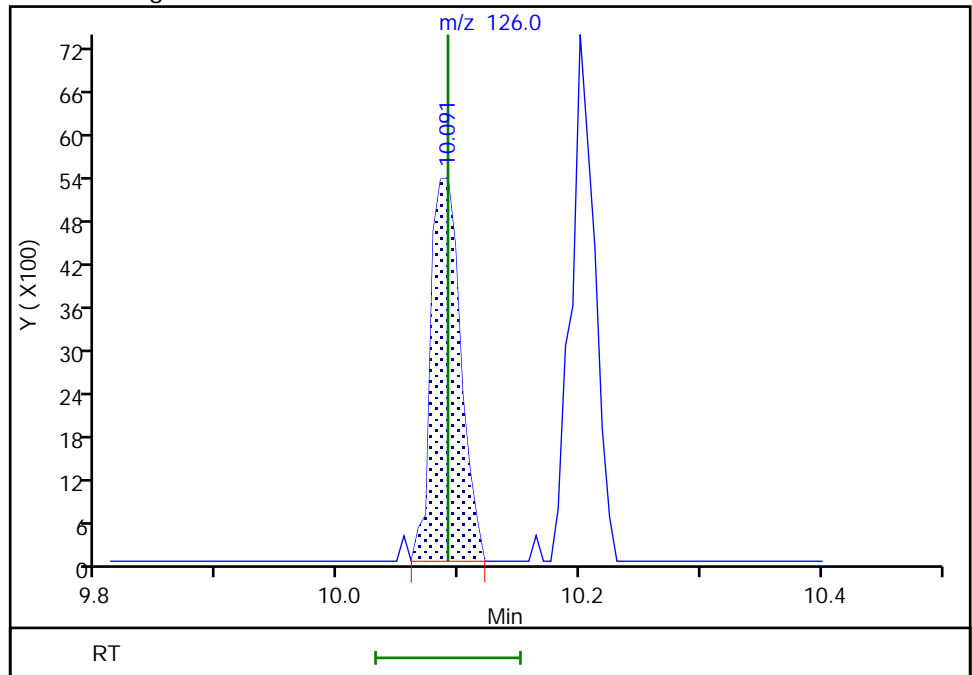
RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L

Processing Integration Results



RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:16
Audit Action: Manually Integrated

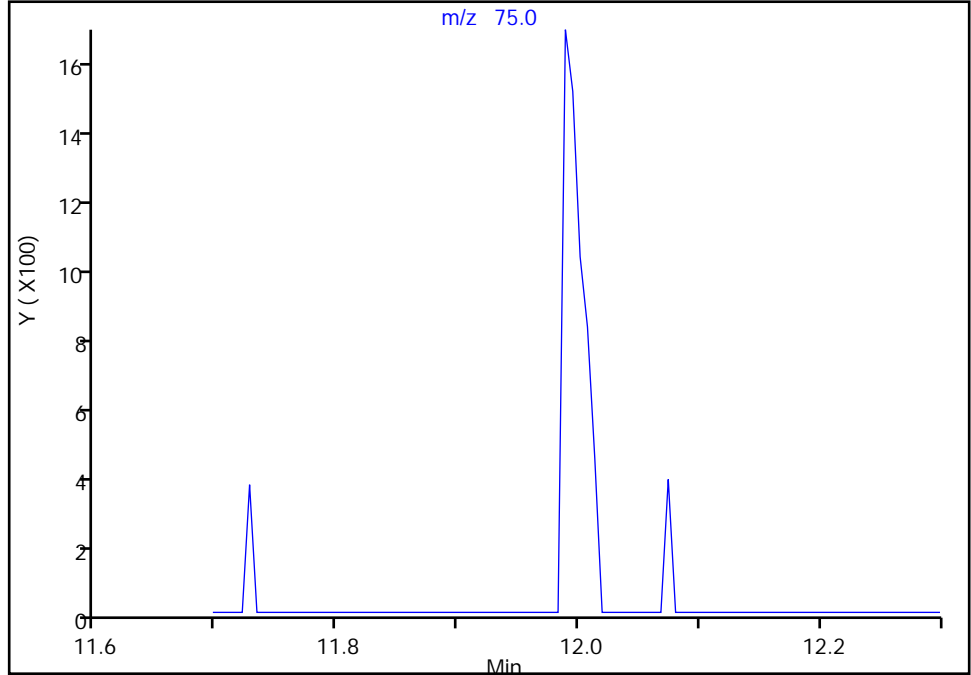
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

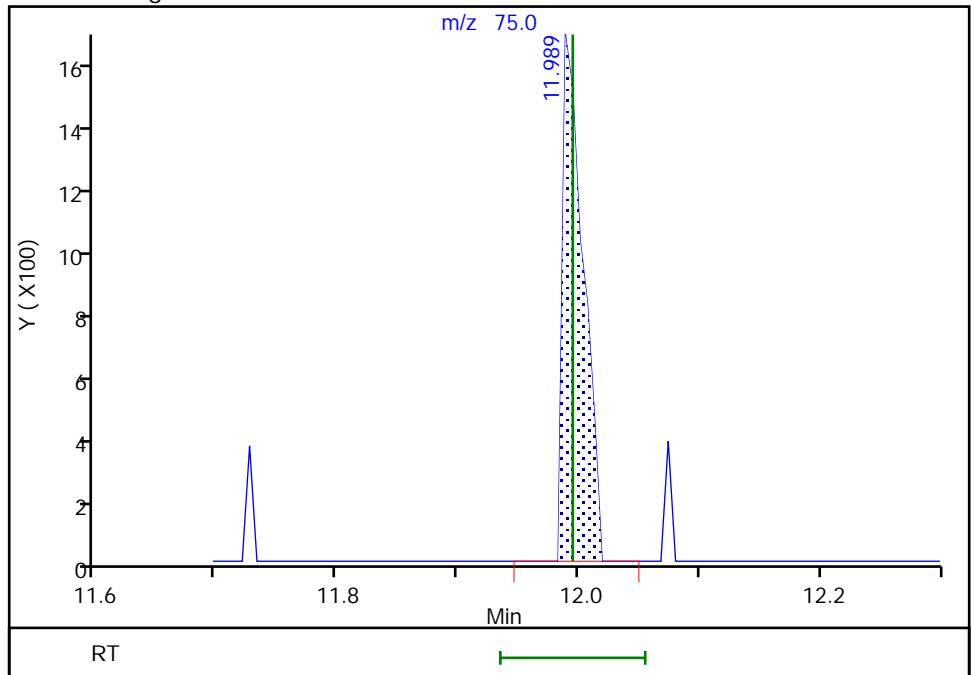
Not Detected
Expected RT: 11.99

Processing Integration Results



RT: 11.99
Area: 1954
Amount: 0.793195
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:52:06
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Jun-2018 14:38:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0072482-007
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:46 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:33:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	202958	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	394355	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	95	373516	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	55	237036	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	153545	25.0	24.1	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	987838	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	296734	25.0	25.2	
10 Dichlorodifluoromethane	85	1.276	1.282	-0.006	48	15348	2.00	1.57	
12 Chloromethane	50	1.464	1.464	0.000	69	31418	2.00	2.02	
13 Vinyl chloride	62	1.555	1.549	0.006	74	26352	2.00	1.91	
151 Butadiene	54	1.580	1.574	0.006	79	27634	2.00	1.92	
14 Bromomethane	94	1.872	1.872	0.000	76	13102	2.00	1.77	M
15 Chloroethane	64	1.981	1.969	0.012	40	15522	2.00	1.86	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	61	24492	2.00	1.87	M
16 Dichlorofluoromethane	67	2.206	2.194	0.012	58	32362	2.00	1.77	M
18 Ethyl ether	59	2.498	2.492	0.006	75	22137	2.00	1.90	
20 Acrolein	56	2.687	2.687	0.000	77	19651	10.0	8.82	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	12	12129	2.00	1.88	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	67	18776	2.00	2.09	M
23 Acetone	43	2.851	2.851	0.000	92	45897	10.0	11.8	M
25 Iodomethane	142	2.900	2.894	0.006	83	23539	2.00	1.80	M
26 Carbon disulfide	76	2.918	2.918	0.000	91	56275	2.00	1.97	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	85	34229	2.00	1.97	
27 Methyl acetate	43	3.149	3.143	0.006	88	47623	4.00	4.65	
30 Methylene Chloride	84	3.253	3.253	0.000	87	42609	2.00	2.06	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	89	23908	20.0	18.1	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	85	67897	2.00	2.02	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	21095	2.00	2.06	
33 Acrylonitrile	53	3.545	3.539	0.006	98	110281	20.0	20.2	
35 Hexane	57	3.666	3.660	0.006	81	34429	2.00	1.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.904	3.892	0.012	75	44053	2.00	2.04	
37 Vinyl acetate	43	3.952	3.952	0.000	93	101560	4.00	4.08	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	73	23960	2.00	2.00	
45 cis-1,2-Dichloroethene	96	4.463	4.457	0.006	70	22561	2.00	1.91	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	91	58111	10.0	9.69	
48 Chlorobromomethane	128	4.695	4.695	0.000	79	11538	2.00	2.05	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	15949	4.00	3.87	
50 Chloroform	83	4.768	4.774	-0.006	84	38075	2.00	2.02	
51 1,1,1-Trichloroethane	97	4.871	4.877	-0.006	62	26672	2.00	1.90	
52 Cyclohexane	56	4.877	4.883	-0.006	83	35177	2.00	1.86	
55 Carbon tetrachloride	117	5.011	5.011	0.000	63	24702	2.00	2.10	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	86	30749	2.00	2.15	
57 Benzene	78	5.236	5.236	0.000	53	85767	2.00	1.99	
53 Isobutyl alcohol	43	5.266	5.266	0.000	63	28420	50.0	51.0	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	56	36030	2.00	2.07	
59 n-Heptane	43	5.406	5.412	-0.006	92	34128	2.00	1.94	M
62 Trichloroethene	95	5.850	5.850	0.000	83	22060	2.00	1.99	
64 Methylcyclohexane	83	5.966	5.960	0.006	87	31597	2.00	1.87	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	84	26992	2.00	2.08	
67 Dibromomethane	93	6.234	6.234	0.000	77	12583	2.00	1.86	
66 1,4-Dioxane	88	6.240	6.246	-0.006	24	2267	40.0	38.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	80	23598	2.00	1.81	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	75	15014	2.00	1.73	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	71	30883	2.00	1.88	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	137972	10.0	11.0	
74 Toluene	92	7.092	7.085	0.007	74	54960	2.00	2.10	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	86	28095	2.00	1.95	
75 Ethyl methacrylate	69	7.420	7.414	0.006	58	28412	2.00	2.01	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	82	17708	2.00	2.24	
81 Tetrachloroethene	166	7.621	7.615	0.006	83	22036	2.00	1.99	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	84	35902	2.00	2.16	
80 2-Hexanone	43	7.797	7.791	0.006	77	98893	10.0	10.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	66	18127	2.00	2.02	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	76	19979	2.00	2.01	
87 Chlorobenzene	112	8.539	8.539	0.000	86	60005	2.00	2.09	
88 Ethylbenzene	91	8.631	8.631	0.000	95	101499	2.00	2.15	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	43	19212	2.00	2.07	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	39460	2.00	2.05	
91 o-Xylene	106	9.178	9.178	0.000	94	38904	2.00	2.13	
92 Styrene	104	9.209	9.209	0.000	89	64472	2.00	2.06	
95 Bromoform	173	9.470	9.464	0.006	64	9957	2.00	1.74	
94 Isopropylbenzene	105	9.555	9.561	-0.006	89	97764	2.00	2.08	
101 Bromobenzene	156	9.908	9.908	0.000	88	23921	2.00	2.01	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	59	25318	2.00	1.98	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	112308	2.00	2.06	
100 1,2,3-Trichloropropane	110	10.006	9.999	0.007	65	7744	2.00	1.84	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	45	6261	2.00	1.92	
103 2-Chlorotoluene	126	10.091	10.091	0.000	92	23261	2.00	1.98	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	86	82695	2.00	2.02	
105 4-Chlorotoluene	126	10.200	10.200	0.000	79	26092	2.00	2.17	
106 tert-Butylbenzene	134	10.480	10.474	0.006	84	17151	2.00	1.97	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	69	85998	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.681	10.687	-0.006	88	101392	2.00	2.07	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	69	48178	2.00	2.08	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	93	85693	2.00	2.03	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	53	49506	2.00	2.10	
115 n-Butylbenzene	91	11.210	11.210	0.000	90	80619	2.00	2.12	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	89	46309	2.00	2.03	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	34	4266	2.00	1.72	
119 1,2,4-Trichlorobenzene	180	12.658	12.664	-0.006	71	35174	2.00	2.17	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	68	15718	2.00	2.03	
121 Naphthalene	128	12.883	12.877	0.006	93	89284	2.00	2.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	86	28319	2.00	1.89	
S 123 Total BTEX	1				0			10.4	
S 125 1,2-Dichloroethene, Total	1				0			3.97	
S 124 Xylenes, Total	1				0			4.19	
S 126 1,3-Dichloropropene, Total	1				0			3.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 2.00	Units: uL	
GAS CORP mix_00287	Amount Added: 2.00	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D

Injection Date: 20-Jun-2018 14:38:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

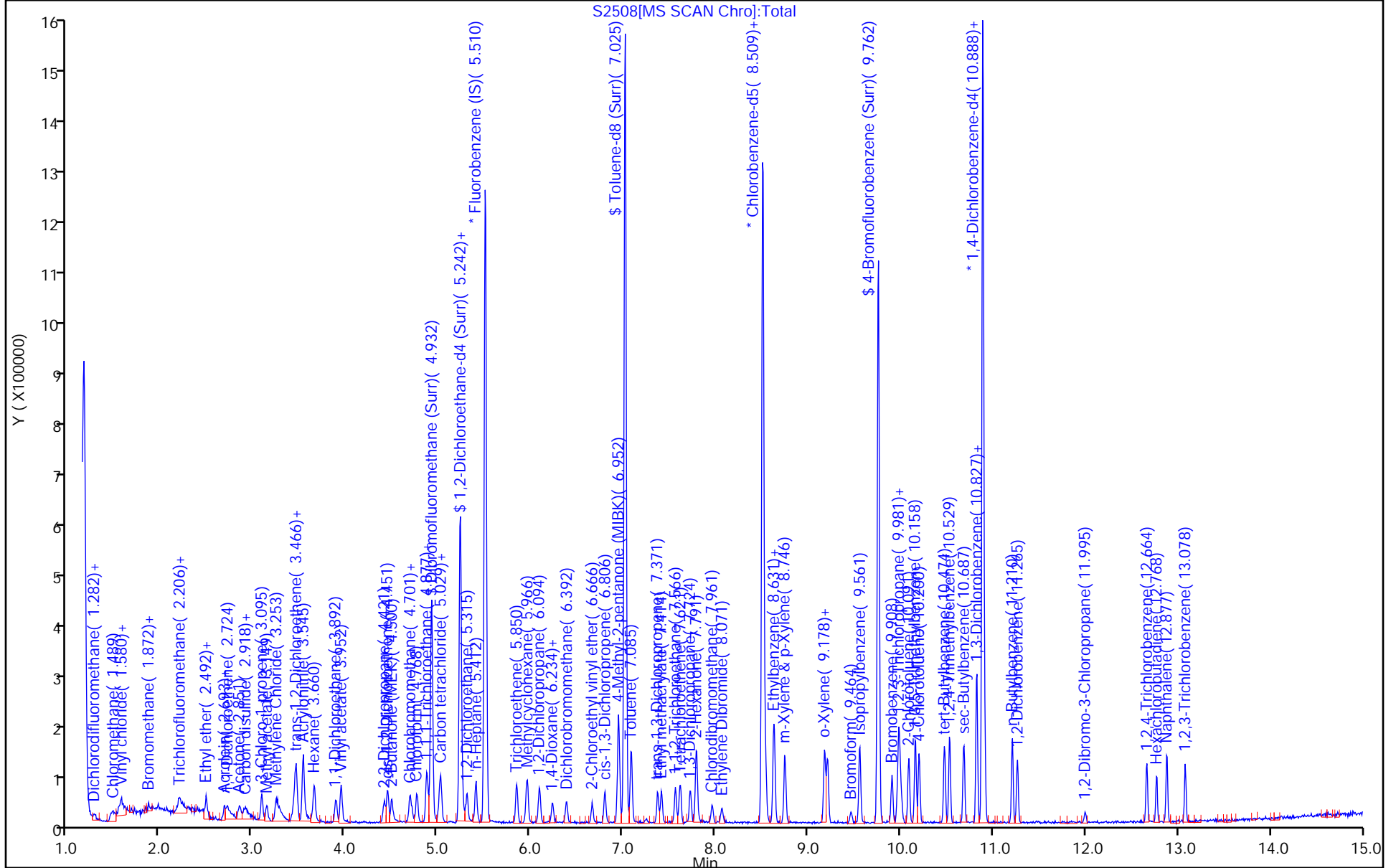
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

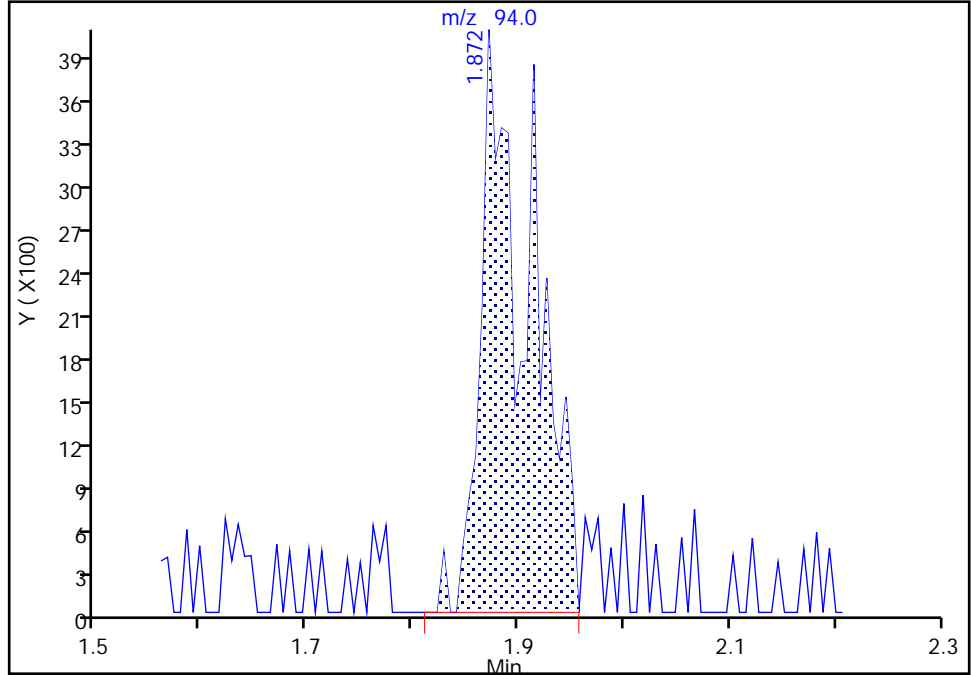
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

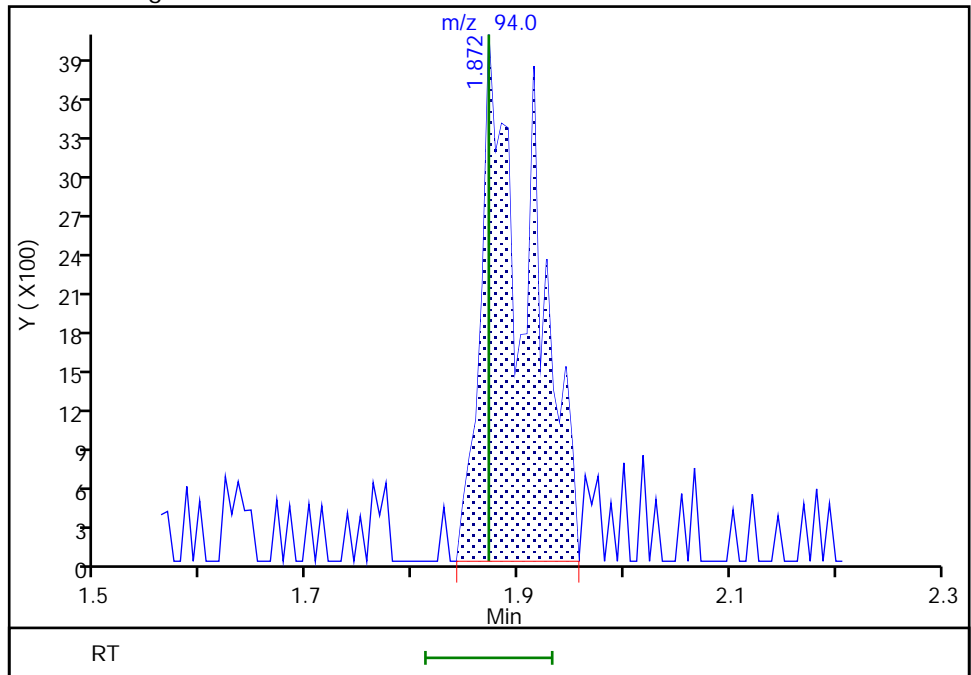
RT: 1.87
Area: 13255
Amount: 1.789184
Amount Units: ug/L

Processing Integration Results



RT: 1.87
Area: 13102
Amount: 1.770817
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:25
Audit Action: Manually Integrated

TestAmerica Buffalo

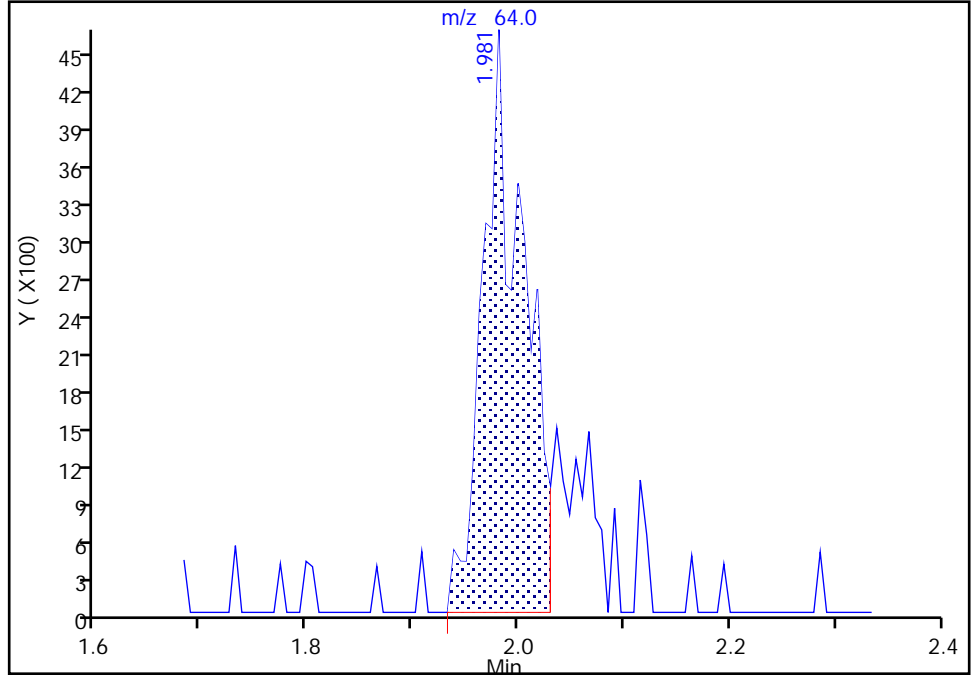
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

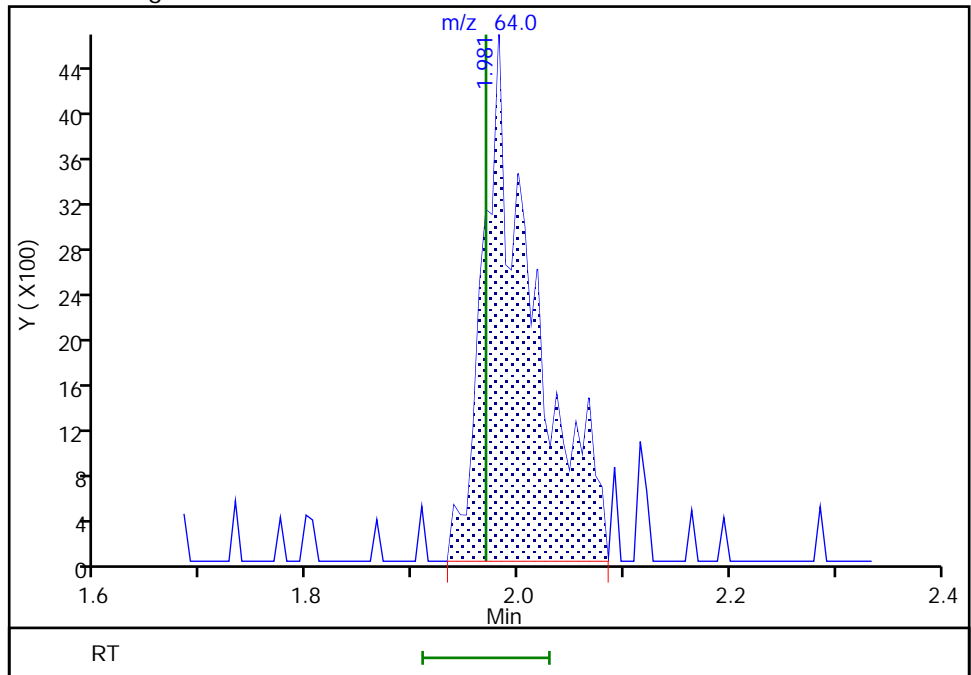
RT: 1.98
Area: 12491
Amount: 1.531681
Amount Units: ug/L

Processing Integration Results



RT: 1.98
Area: 15522
Amount: 1.857410
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:47:42
Audit Action: Manually Integrated

TestAmerica Buffalo

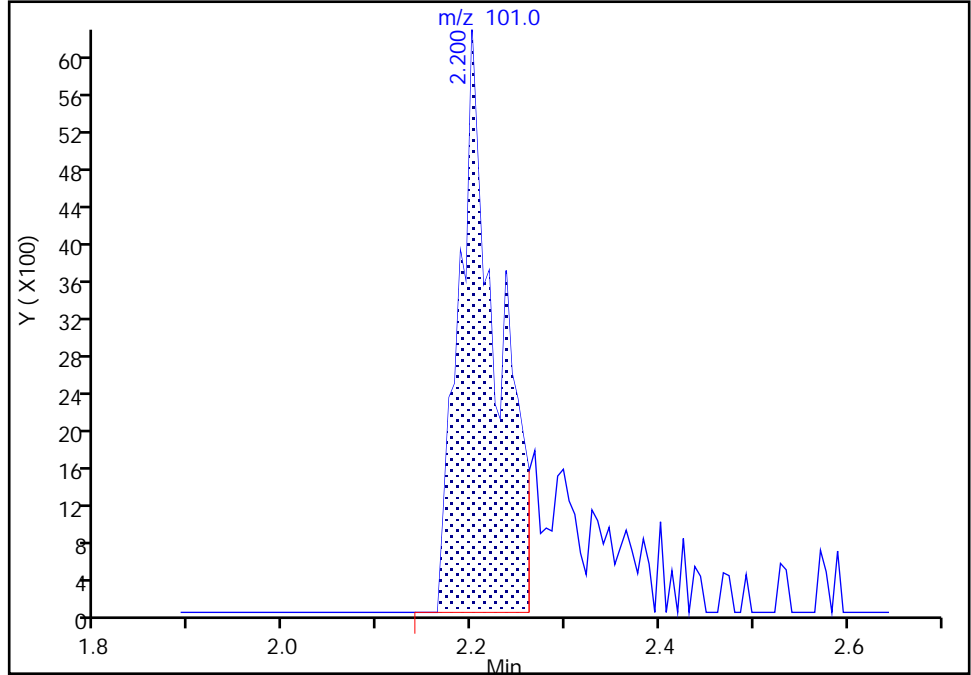
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

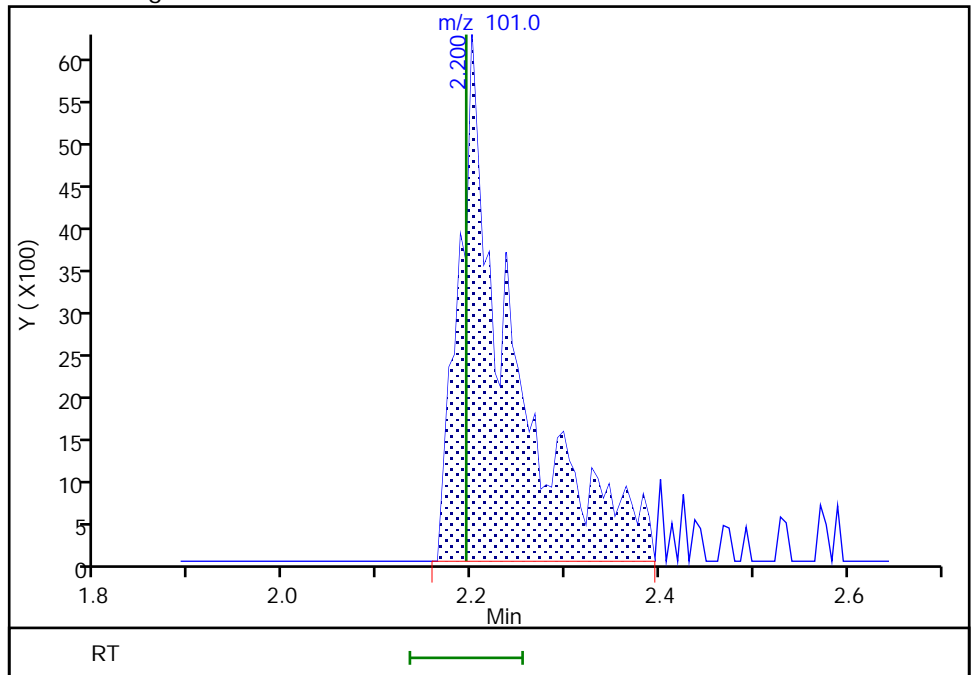
RT: 2.20
Area: 17555
Amount: 1.517755
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 24492
Amount: 1.872069
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:48:16
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

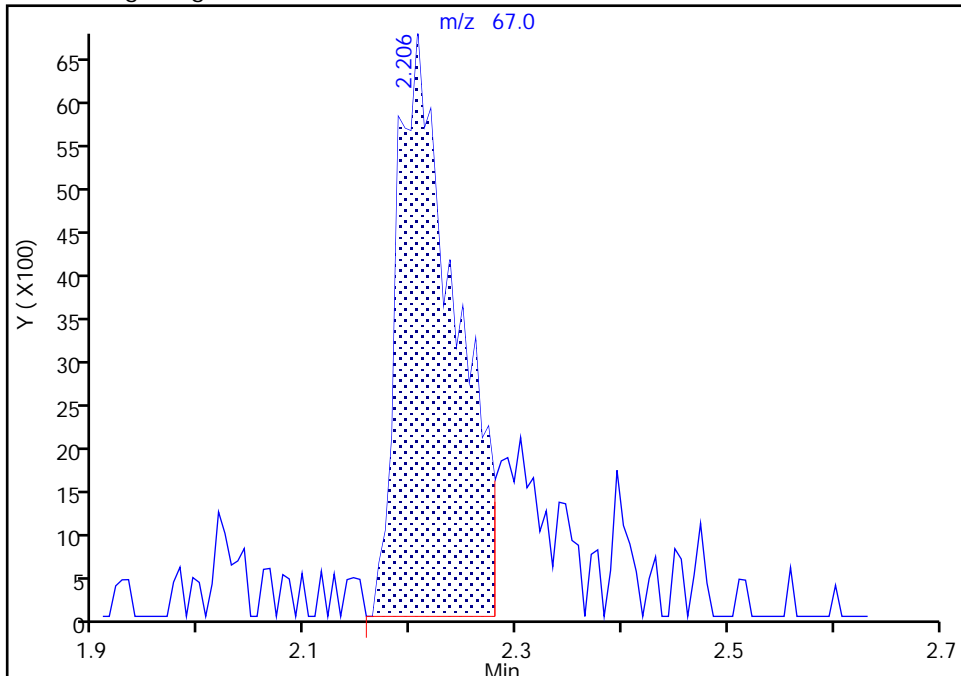
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

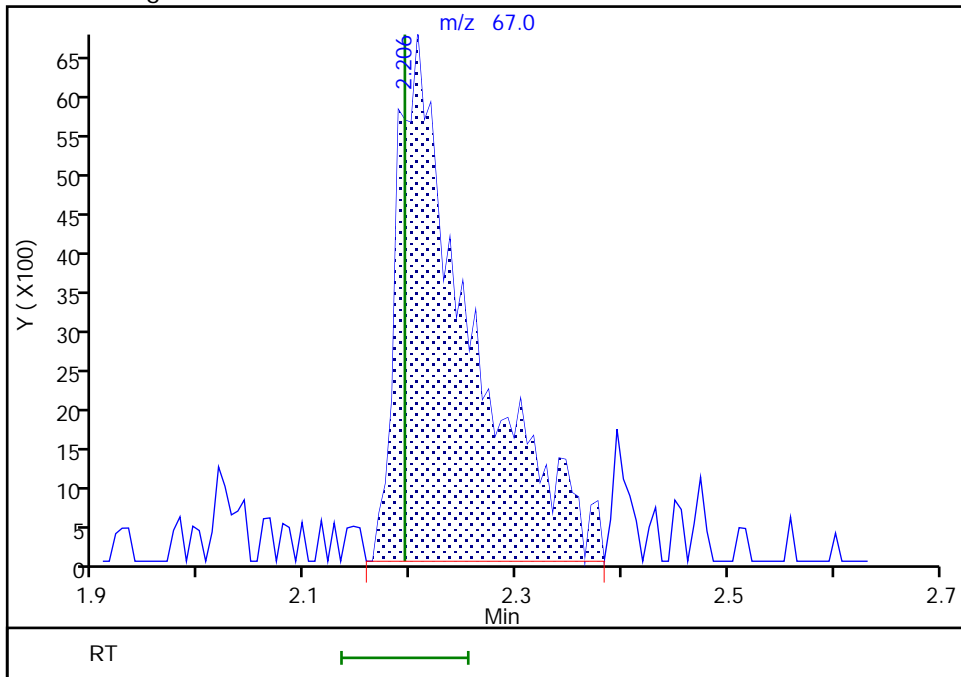
RT: 2.21
Area: 25443
Amount: 1.492939
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 32362
Amount: 1.767578
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:48:39
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

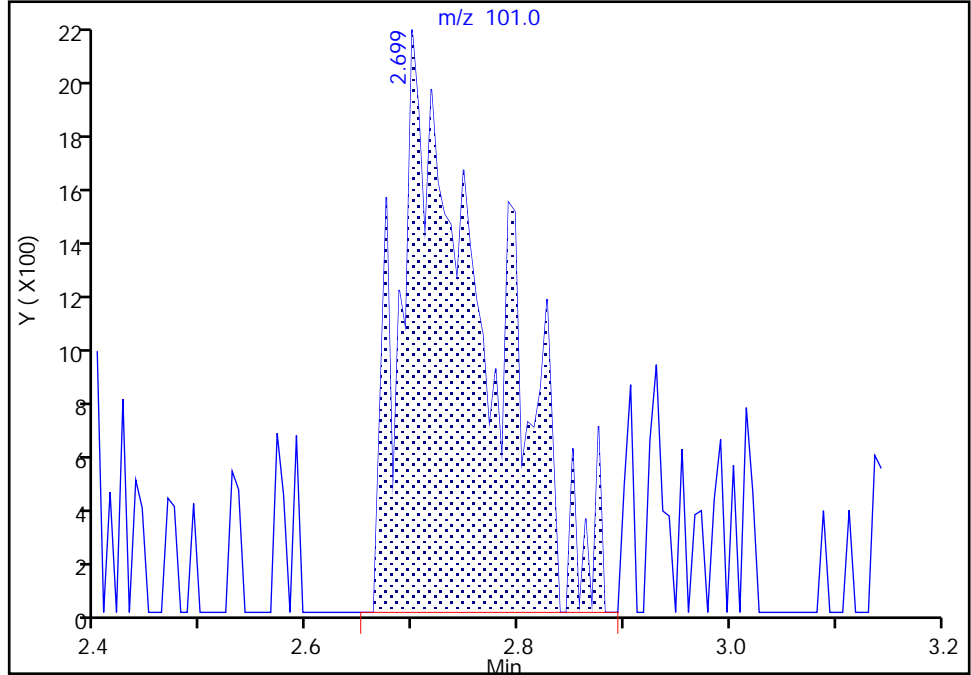
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

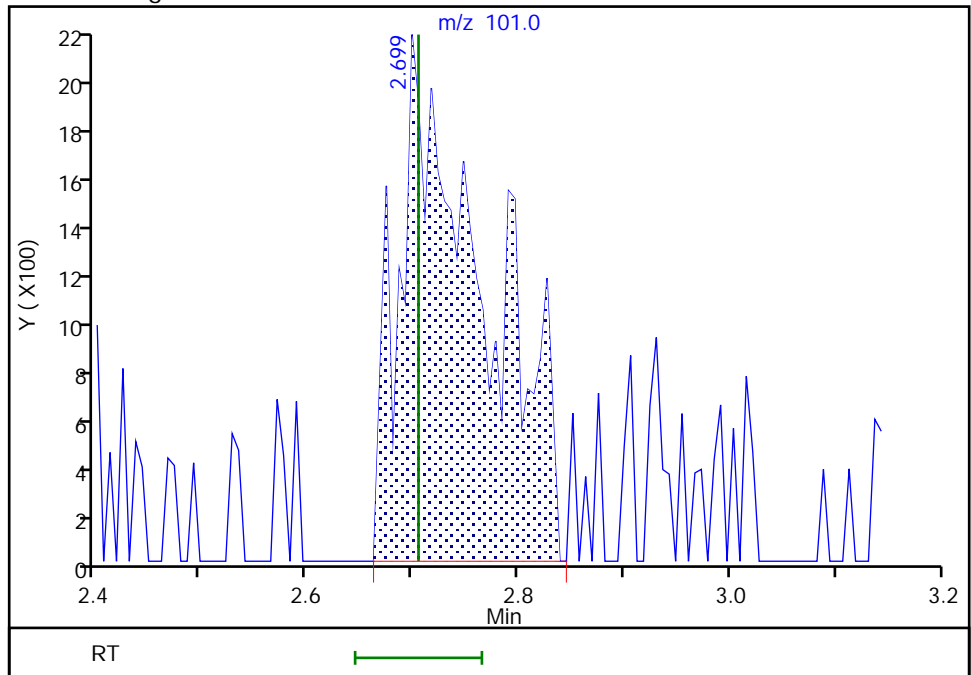
RT: 2.70
Area: 12735
Amount: 2.086698
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 12129
Amount: 1.875033
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

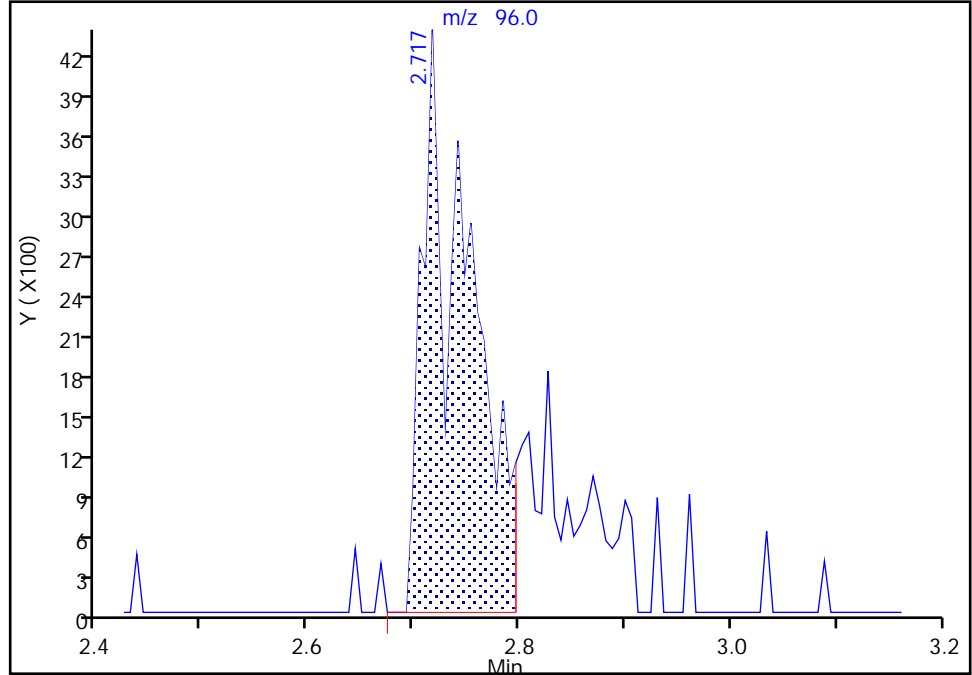
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

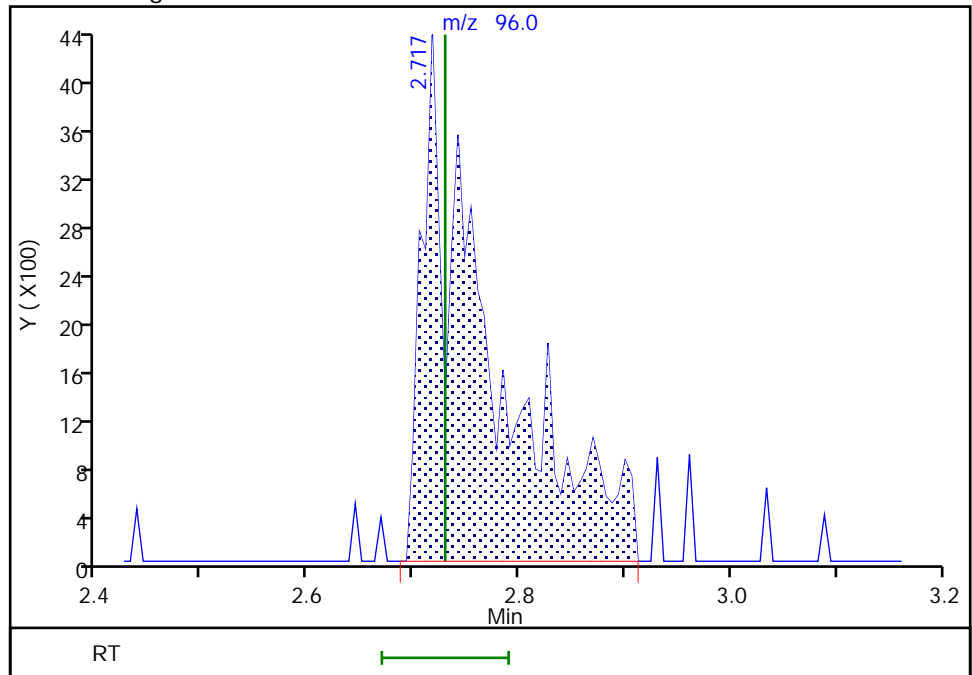
RT: 2.72
Area: 13311
Amount: 1.727229
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 18776
Amount: 2.094349
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

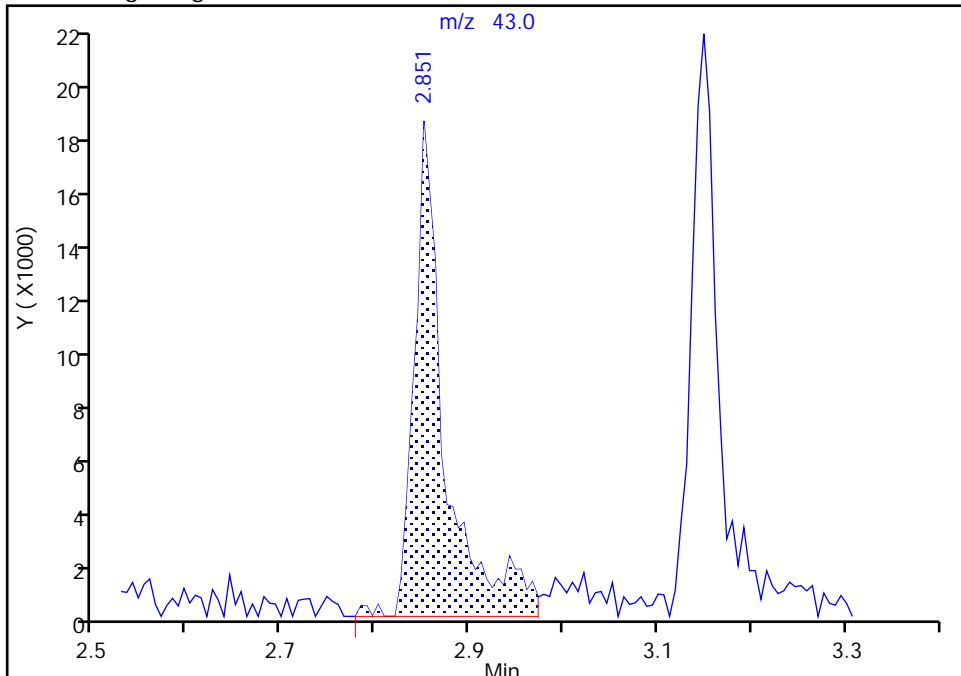
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

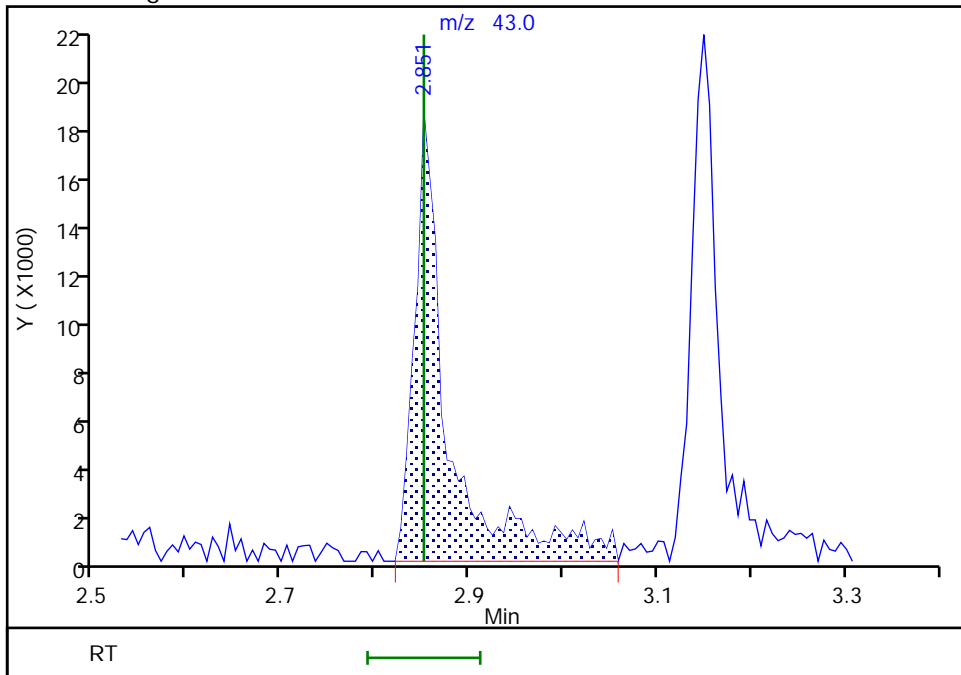
RT: 2.85
Area: 41648
Amount: 9.924223
Amount Units: ug/L

Processing Integration Results



RT: 2.85
Area: 45897
Amount: 11.753991
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:49:47
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

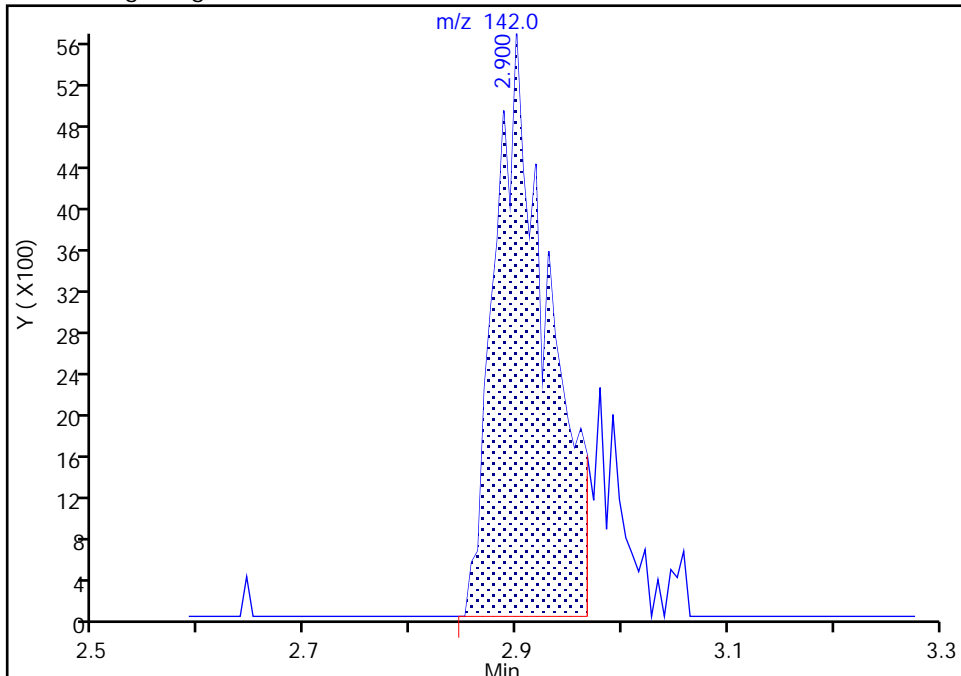
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

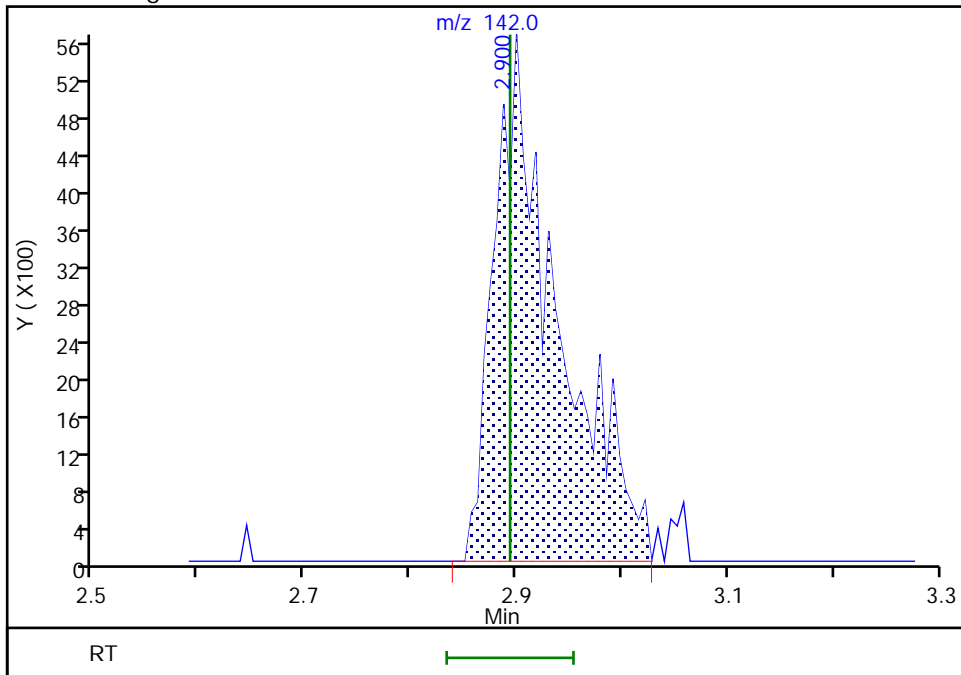
RT: 2.90
Area: 19972
Amount: 1.497511
Amount Units: ug/L

Processing Integration Results



RT: 2.90
Area: 23539
Amount: 1.795323
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:50:30
Audit Action: Manually Integrated

TestAmerica Buffalo

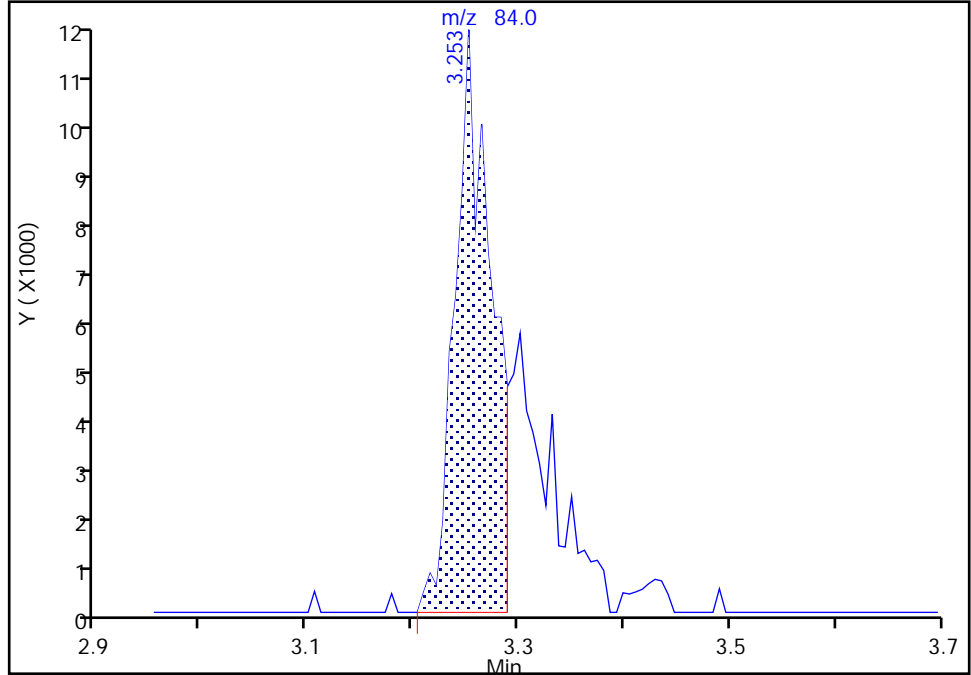
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Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

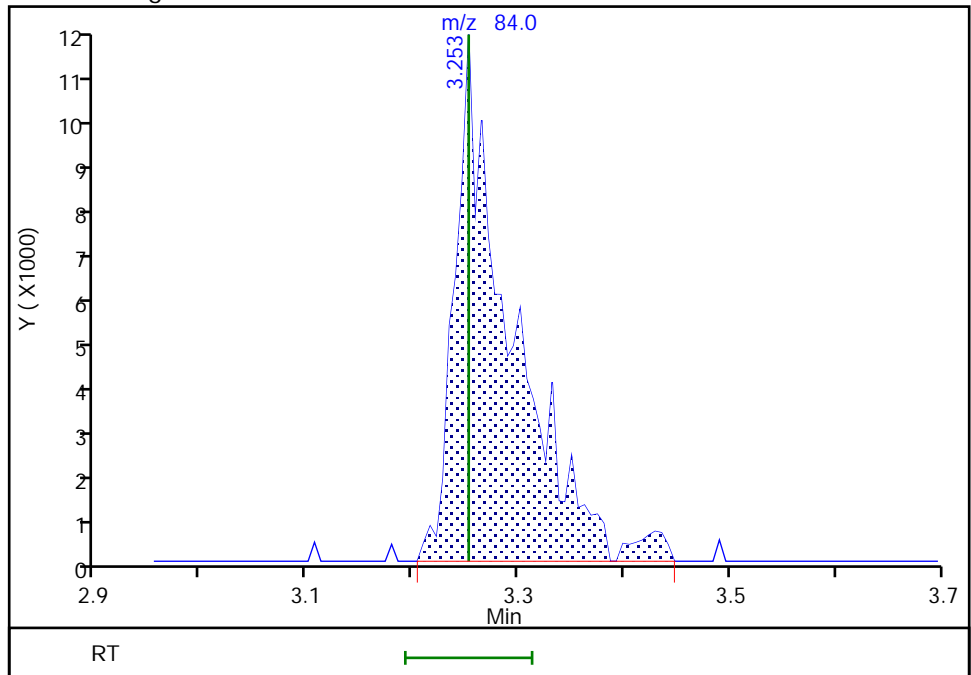
RT: 3.25
Area: 27629
Amount: 1.460418
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 42609
Amount: 2.057003
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

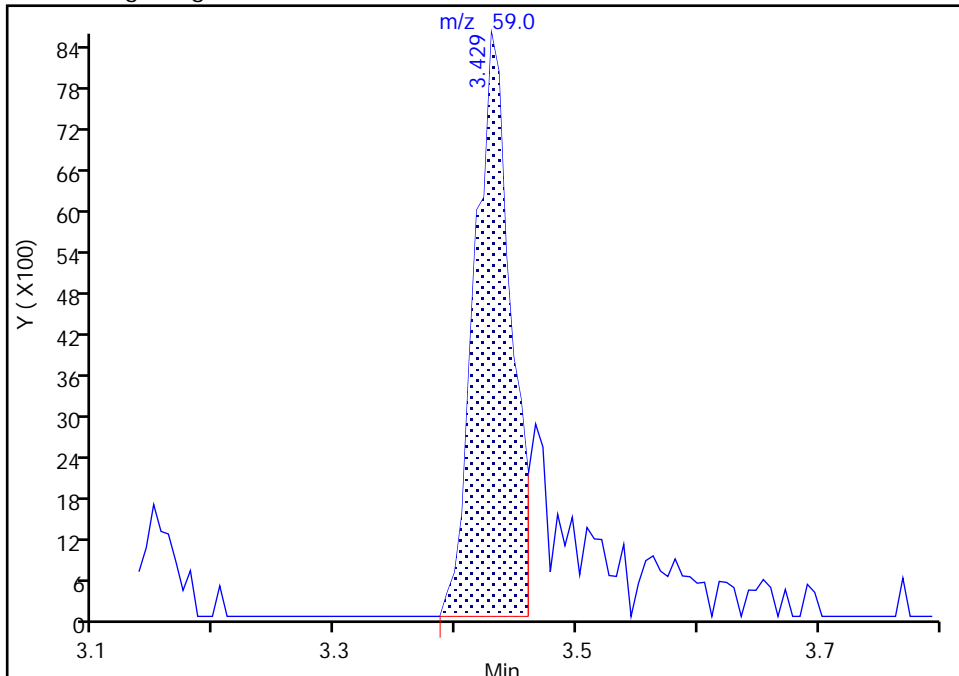
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Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

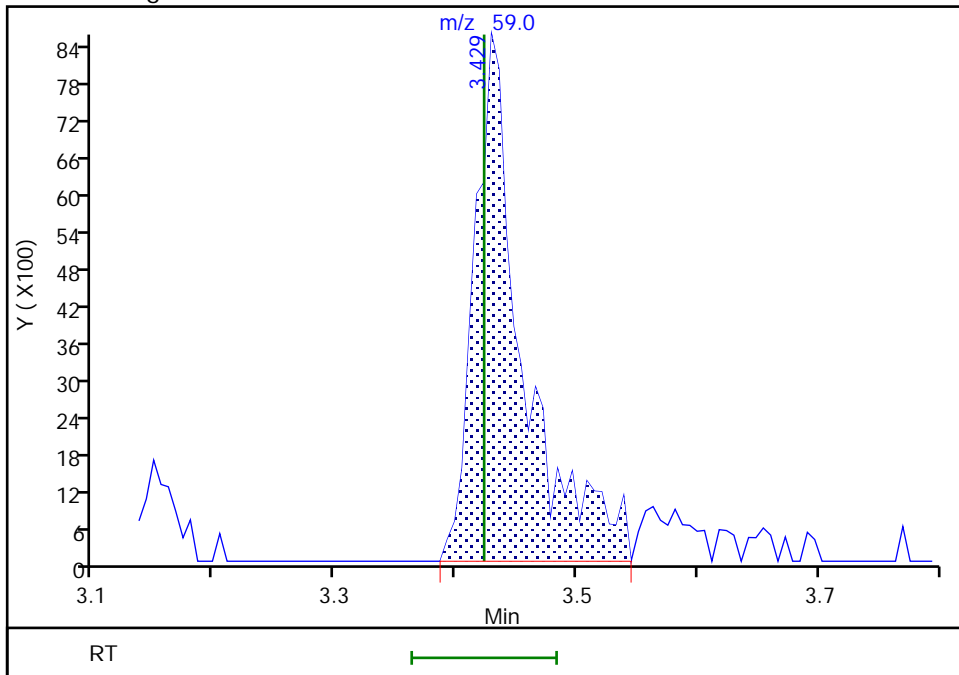
RT: 3.43
Area: 17955
Amount: 16.316635
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 23908
Amount: 18.070445
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:51:44
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

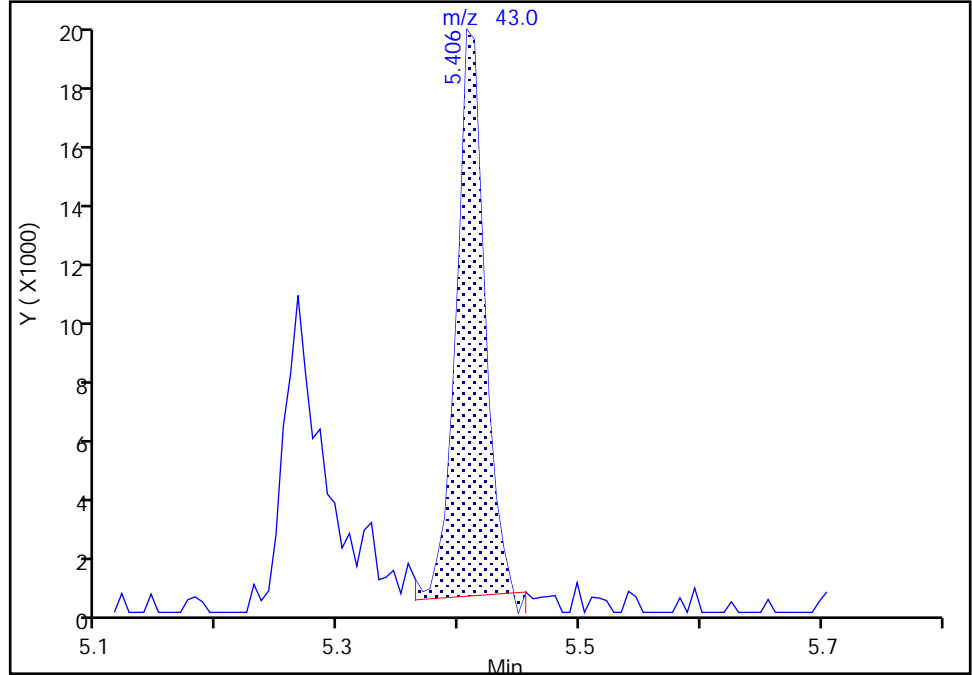
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

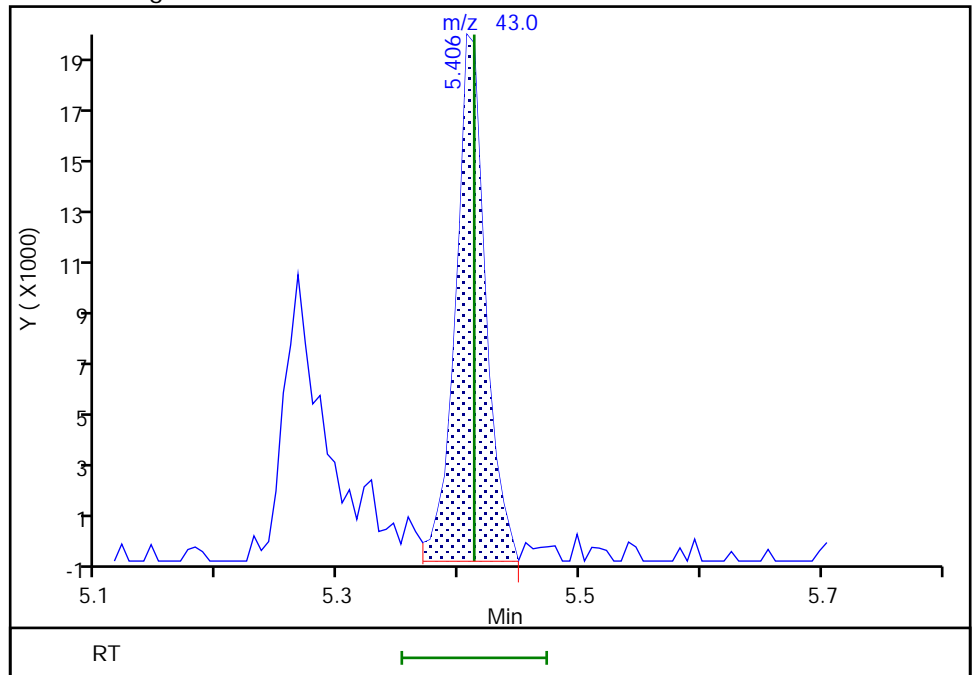
RT: 5.41
Area: 31472
Amount: 1.805730
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 34128
Amount: 1.939647
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:17:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

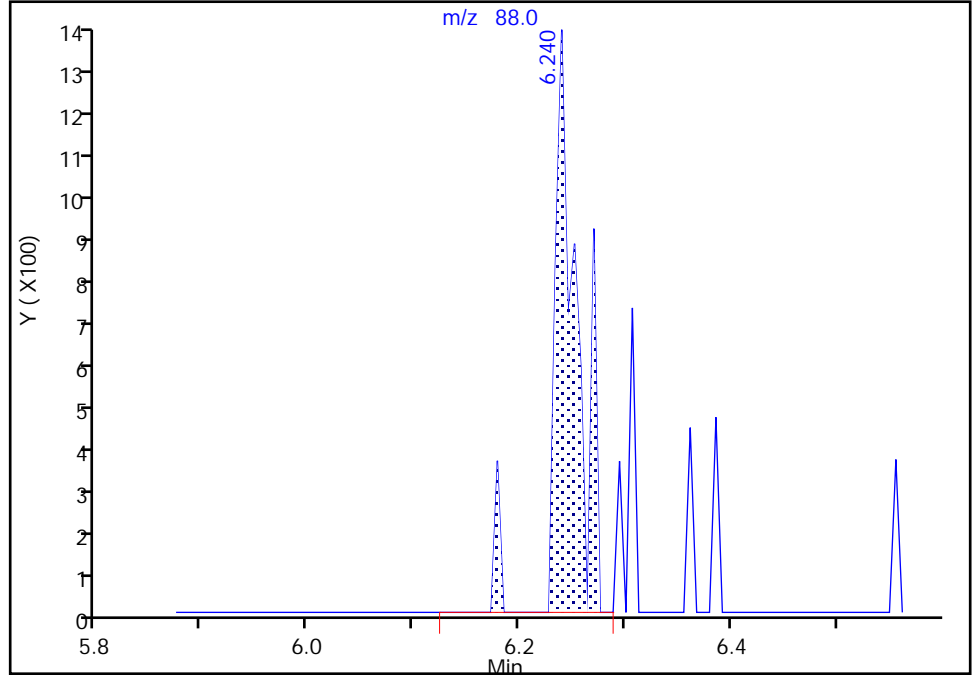
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

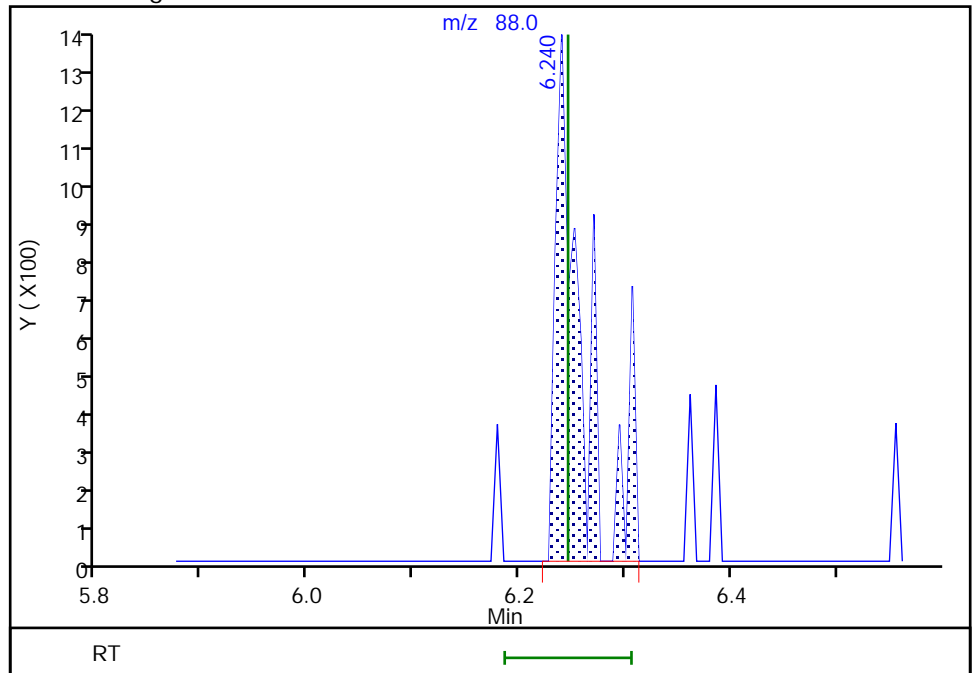
RT: 6.24
Area: 2010
Amount: 26.141337
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 2267
Amount: 38.583938
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:26:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Jun-2018 15:01:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0072482-008
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:51 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:19:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	194919	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	86	401283	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	93	371613	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	62	236175	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	162701	25.0	26.6	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	974777	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	298183	25.0	24.8	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	84	57375	5.00	6.11	
12 Chloromethane	50	1.464	1.464	0.000	98	78570	5.00	5.27	
13 Vinyl chloride	62	1.543	1.549	-0.006	81	72004	5.00	5.43	
151 Butadiene	54	1.574	1.574	0.000	56	74679	5.00	5.40	
14 Bromomethane	94	1.884	1.872	0.012	81	37490	5.00	5.28	
15 Chloroethane	64	1.988	1.969	0.019	70	42938	5.00	5.35	
16 Dichlorofluoromethane	67	2.207	2.194	0.013	79	94040	5.00	5.35	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	68	74675	5.00	5.94	M
18 Ethyl ether	59	2.492	2.492	0.000	82	59556	5.00	5.33	
20 Acrolein	56	2.687	2.687	0.000	90	50983	25.0	23.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	39	42648	5.00	5.88	M
22 1,1-Dichloroethene	96	2.718	2.730	-0.012	96	49334	5.00	5.73	
23 Acetone	43	2.845	2.851	-0.006	92	94147	25.0	25.1	
25 Iodomethane	142	2.894	2.894	0.000	93	69957	5.00	5.56	
26 Carbon disulfide	76	2.918	2.918	0.000	88	152614	5.00	5.56	
28 3-Chloro-1-propene	41	3.089	3.089	0.001	86	90419	5.00	5.42	
27 Methyl acetate	43	3.143	3.143	0.000	96	103471	10.0	10.5	
30 Methylene Chloride	84	3.247	3.253	-0.006	87	75350	5.00	5.30	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	84	62295	50.0	49.0	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	90	166404	5.00	5.16	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	55688	5.00	5.65	
33 Acrylonitrile	53	3.539	3.539	0.000	99	254614	50.0	48.7	
35 Hexane	57	3.654	3.660	-0.006	82	108267	5.00	5.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	92	110345	5.00	5.32	
37 Vinyl acetate	43	3.953	3.952	0.001	97	249498	10.0	10.4	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	89	64910	5.00	5.64	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	75	61673	5.00	5.45	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	92	142709	25.0	24.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	91	30101	5.00	5.56	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	36094	10.0	9.12	
50 Chloroform	83	4.768	4.774	-0.006	92	98890	5.00	5.46	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	88	74012	5.00	5.48	
52 Cyclohexane	56	4.877	4.883	-0.006	89	95397	5.00	5.25	
55 Carbon tetrachloride	117	5.017	5.011	0.006	86	61607	5.00	5.45	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	89	71332	5.00	5.19	
57 Benzene	78	5.236	5.236	0.000	75	223580	5.00	5.41	
53 Isobutyl alcohol	43	5.267	5.266	0.001	92	61251	125.0	114.5	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	70	87871	5.00	5.26	
59 n-Heptane	43	5.413	5.412	0.001	86	95852	5.00	5.67	
62 Trichloroethene	95	5.851	5.850	0.001	93	60191	5.00	5.64	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	95854	5.00	5.90	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	94	65633	5.00	5.26	
67 Dibromomethane	93	6.240	6.234	0.006	86	33662	5.00	5.17	
66 1,4-Dioxane	88	6.240	6.246	-0.006	26	6969	100.0	89.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	95	68190	5.00	5.44	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	87	42348	5.00	5.09	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	87	84252	5.00	5.34	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	326171	25.0	25.5	
74 Toluene	92	7.092	7.085	0.007	80	140875	5.00	5.28	
77 trans-1,3-Dichloropropene	75	7.378	7.377	0.001	87	70774	5.00	4.82	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	74867	5.00	5.20	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	91	41694	5.00	5.19	
81 Tetrachloroethene	166	7.621	7.615	0.006	81	58888	5.00	5.23	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	93	81753	5.00	4.82	
80 2-Hexanone	43	7.791	7.791	0.000	79	246316	25.0	26.1	
83 Chlorodibromomethane	129	7.962	7.961	0.001	82	45191	5.00	4.94	
84 Ethylene Dibromide	107	8.071	8.071	0.000	90	52152	5.00	5.15	
87 Chlorobenzene	112	8.540	8.539	0.001	90	153908	5.00	5.27	
88 Ethylbenzene	91	8.631	8.631	0.000	99	260118	5.00	5.41	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	54	46444	5.00	4.91	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	101199	5.00	5.17	
91 o-Xylene	106	9.178	9.178	0.000	98	97848	5.00	5.27	
92 Styrene	104	9.209	9.209	0.000	93	168072	5.00	5.28	
95 Bromoform	173	9.464	9.464	0.000	91	26624	5.00	4.56	
94 Isopropylbenzene	105	9.562	9.561	0.001	94	261022	5.00	5.57	
101 Bromobenzene	156	9.908	9.908	0.000	93	62196	5.00	5.25	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	81	66963	5.00	5.26	
99 N-Propylbenzene	91	9.981	9.987	-0.006	98	304106	5.00	5.60	
100 1,2,3-Trichloropropane	110	10.000	9.999	0.001	67	22292	5.00	5.32	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	65	18263	5.00	4.51	
103 2-Chlorotoluene	126	10.091	10.091	0.000	95	60025	5.00	5.13	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	83	214731	5.00	5.28	
105 4-Chlorotoluene	126	10.206	10.200	0.006	93	62670	5.00	5.23	
106 tert-Butylbenzene	134	10.474	10.474	0.000	90	48709	5.00	5.62	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	75	223814	5.00	5.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	90	261311	5.00	5.36	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	231080	5.00	5.51	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	119848	5.00	5.20	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	75	127844	5.00	5.44	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	208379	5.00	5.51	
116 1,2-Dichlorobenzene	146	11.259	11.265	-0.006	90	123068	5.00	5.43	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	47	11203	5.00	4.54	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	91	80426	5.00	4.99	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	89	39788	5.00	5.16	
121 Naphthalene	128	12.877	12.877	0.000	97	221088	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	79276	5.00	5.33	
S 124 Xylenes, Total	1				0			10.4	
S 126 1,3-Dichloropropene, Total	1				0			10.2	
S 123 Total BTEX	1				0			26.5	
S 125 1,2-Dichloroethene, Total	1				0			11.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 5.00

Units: uL

GAS CORP mix_00287

Amount Added: 5.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D

Injection Date: 20-Jun-2018 15:01:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 3

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

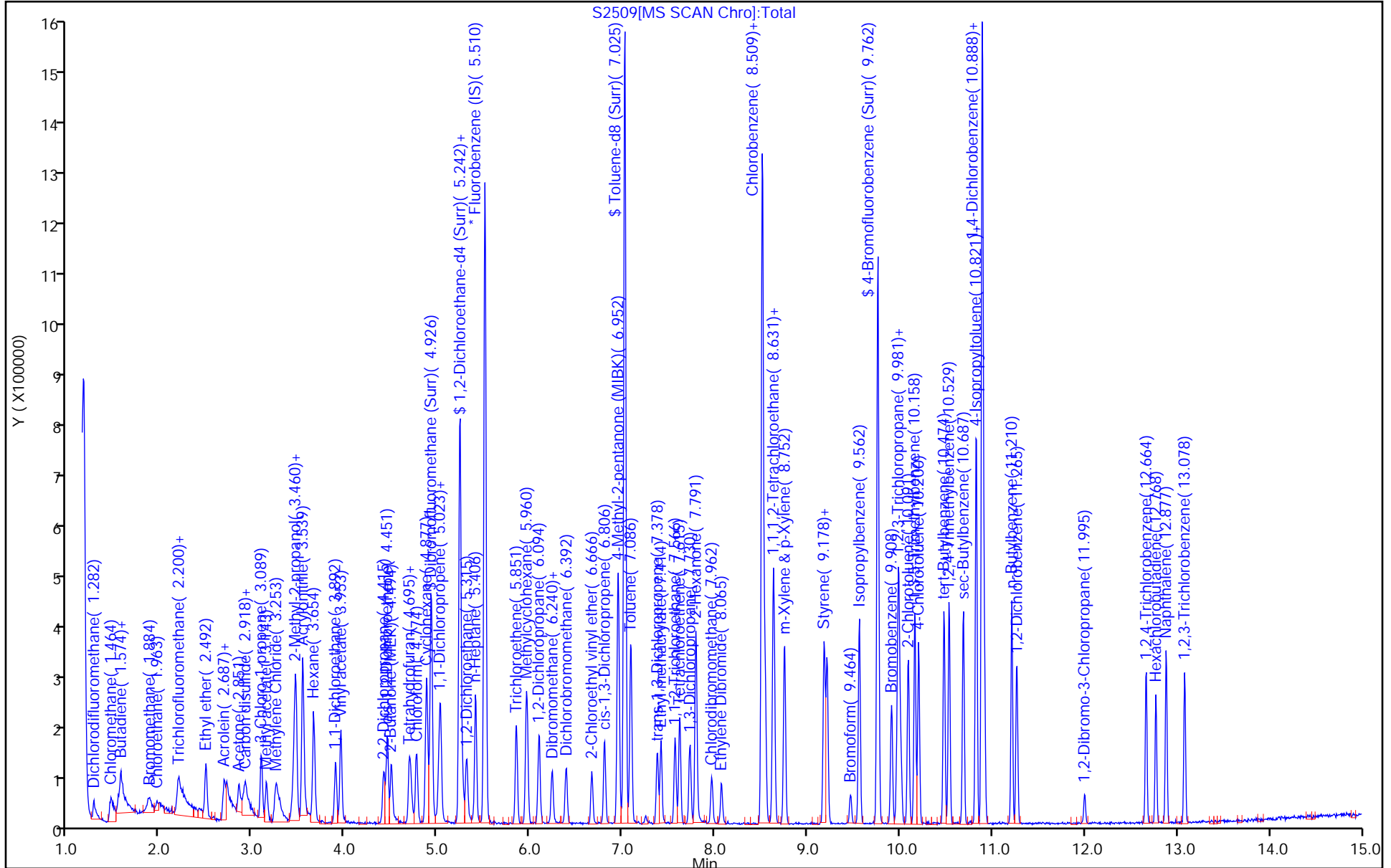
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

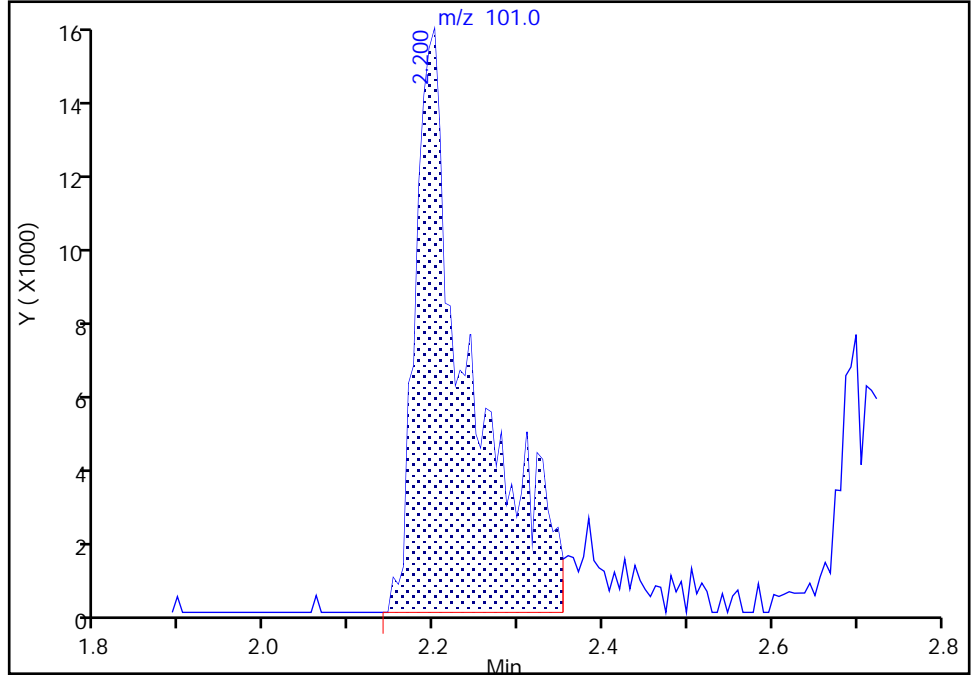
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

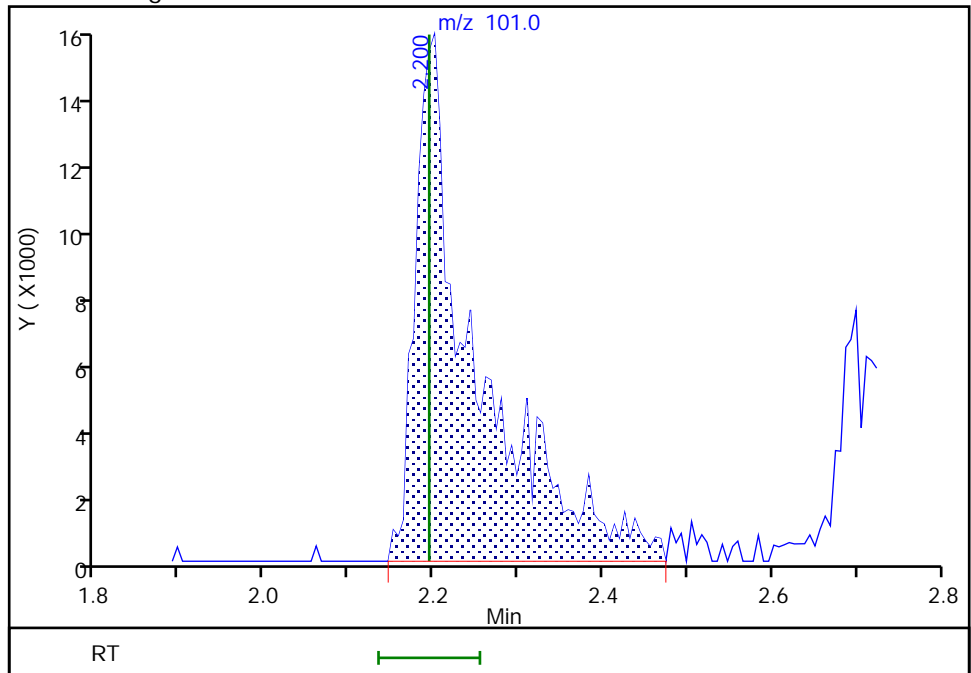
RT: 2.20
Area: 67404
Amount: 5.262149
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 74675
Amount: 5.943261
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:53:53
Audit Action: Manually Integrated

Audit Reason: Baseline
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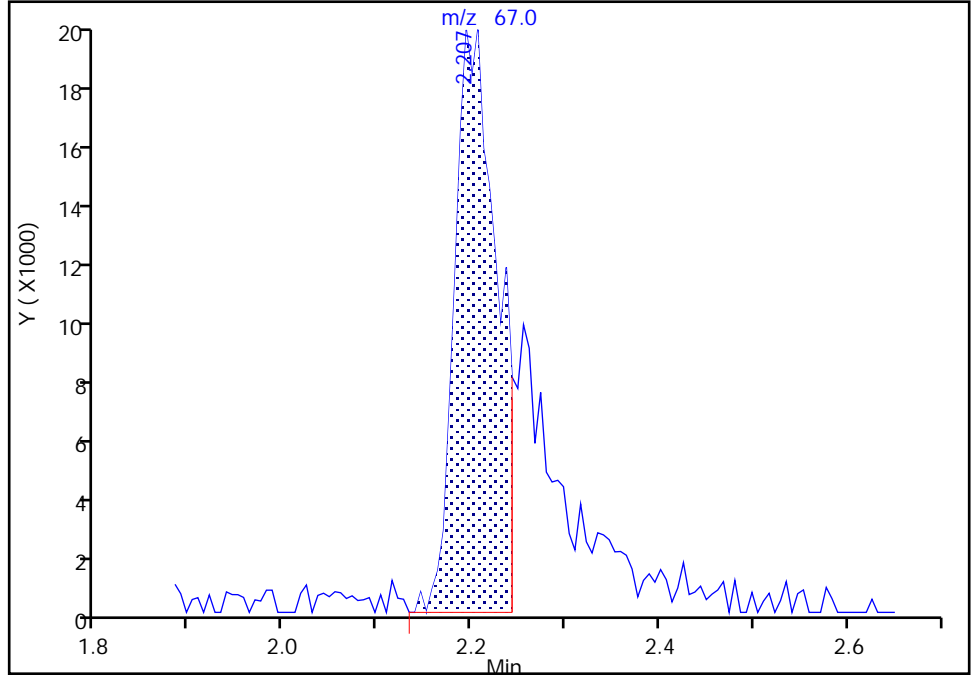
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Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

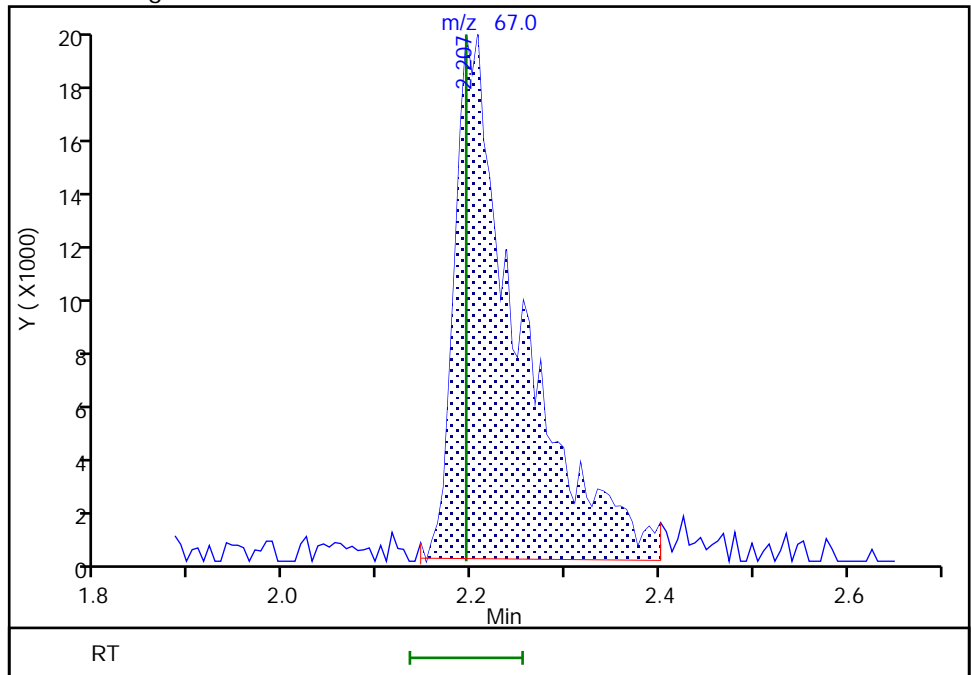
RT: 2.21
Area: 62001
Amount: 3.732710
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 94040
Amount: 5.348202
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:53:24
Audit Action: Manually Integrated

TestAmerica Buffalo

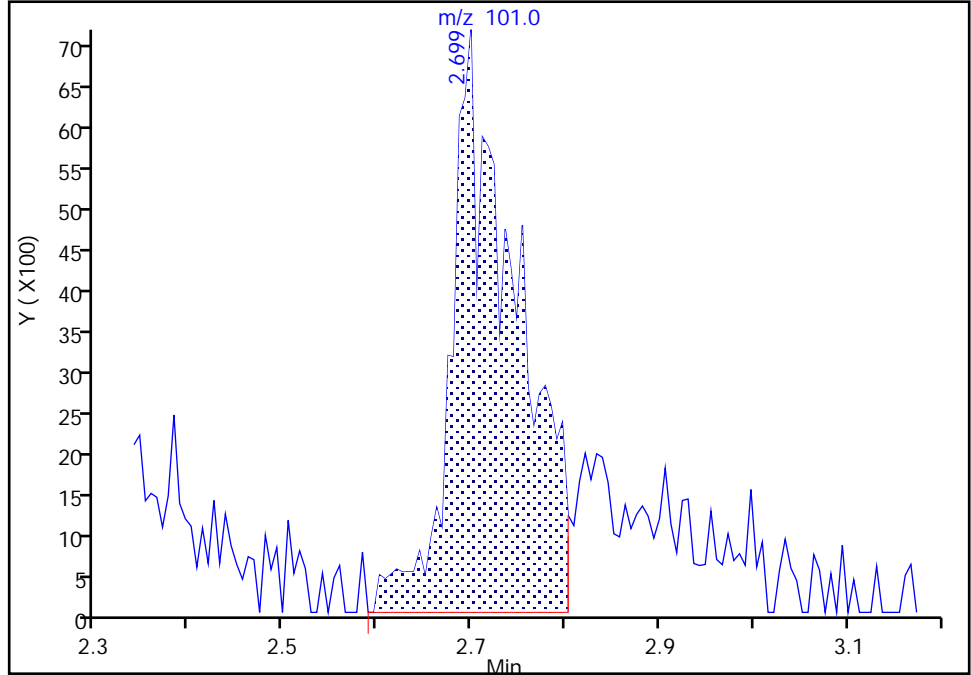
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Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

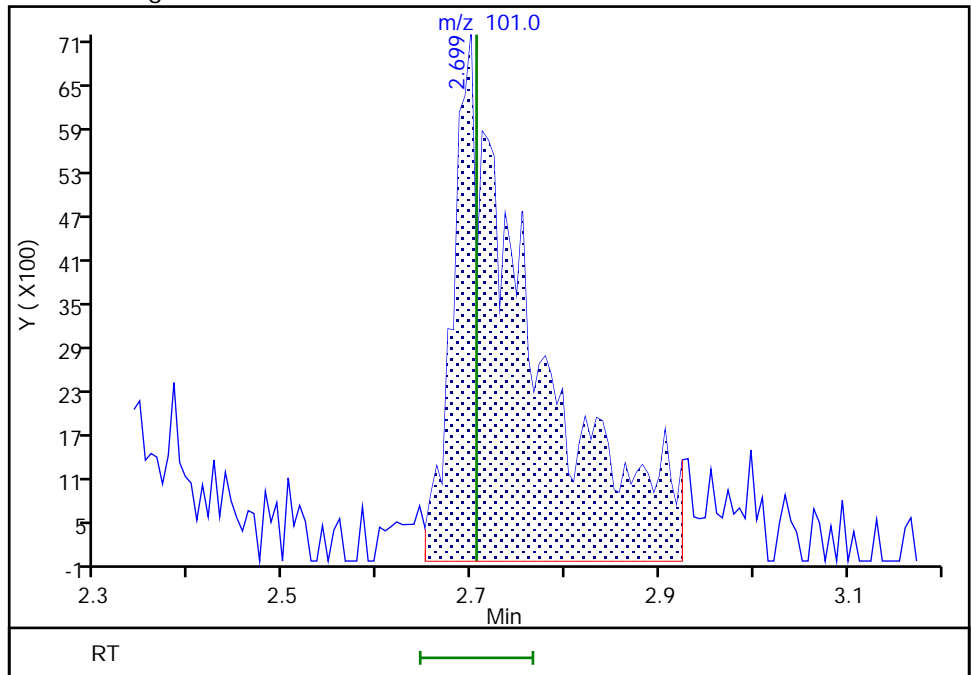
RT: 2.70
Area: 34329
Amount: 5.577335
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 42648
Amount: 5.877613
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:20:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

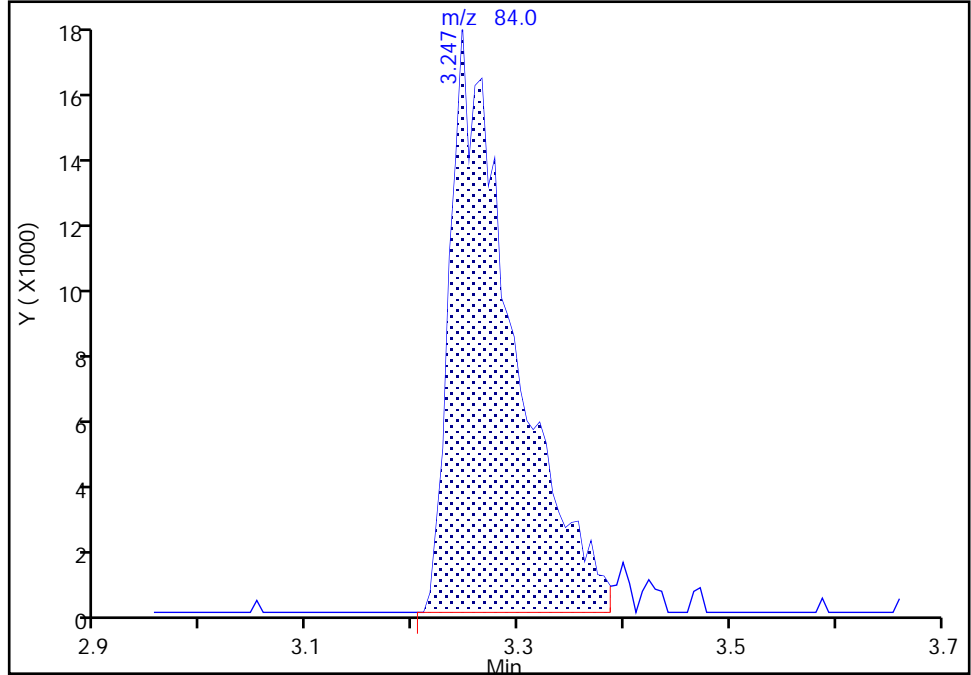
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

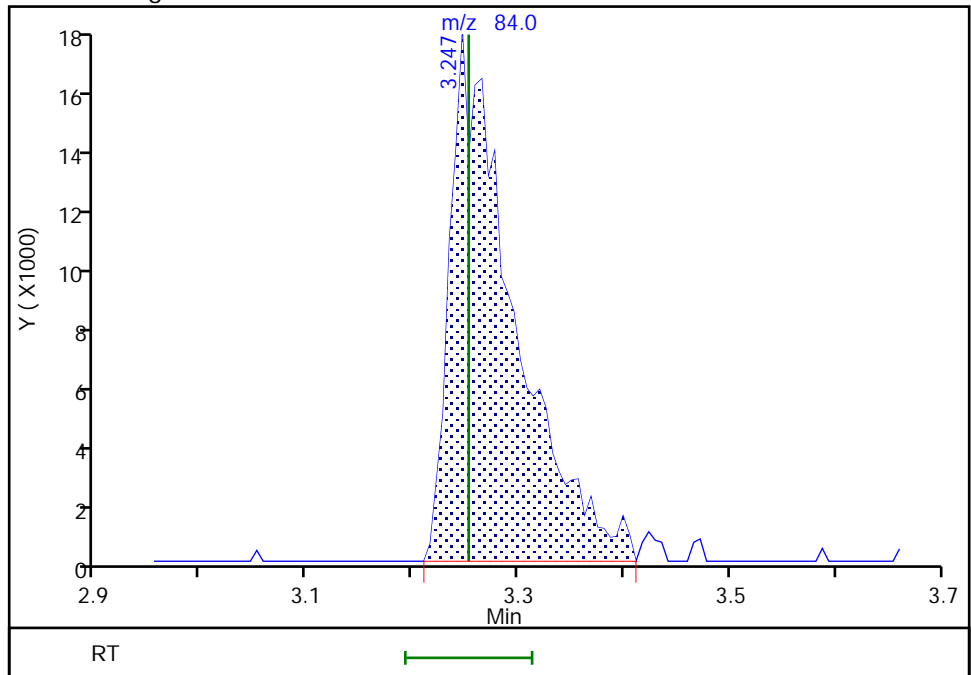
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Area: 74156
Amount: 5.210539
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 75350
Amount: 5.299668
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:43:48
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 182 of 444

TestAmerica Buffalo

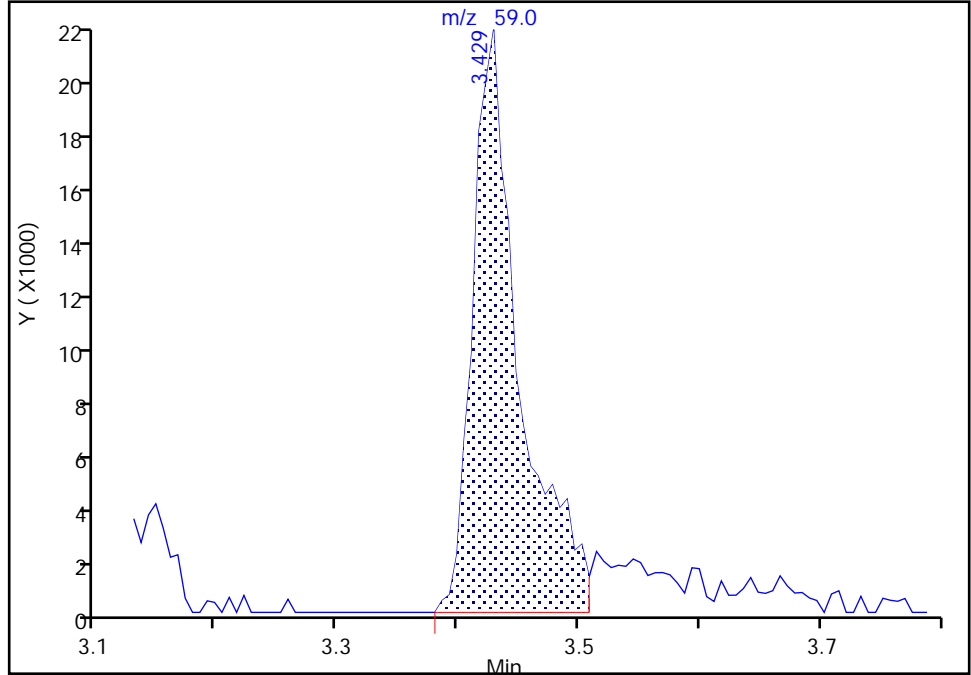
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

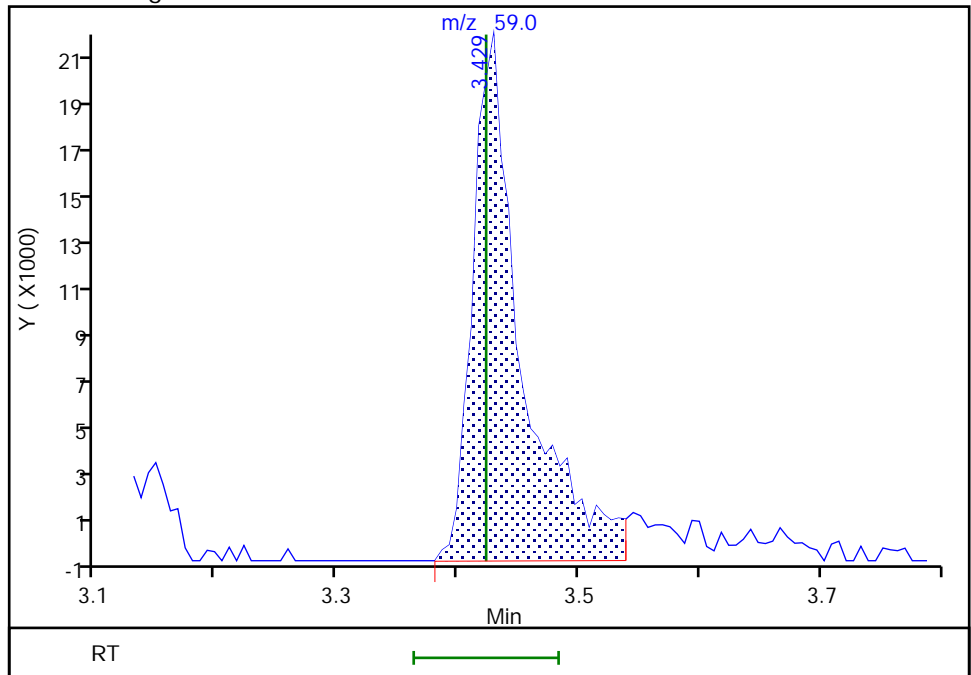
RT: 3.43
Area: 58800
Amount: 52.791577
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 62295
Amount: 49.026488
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:51:26
Audit Action: Manually Integrated

TestAmerica Buffalo

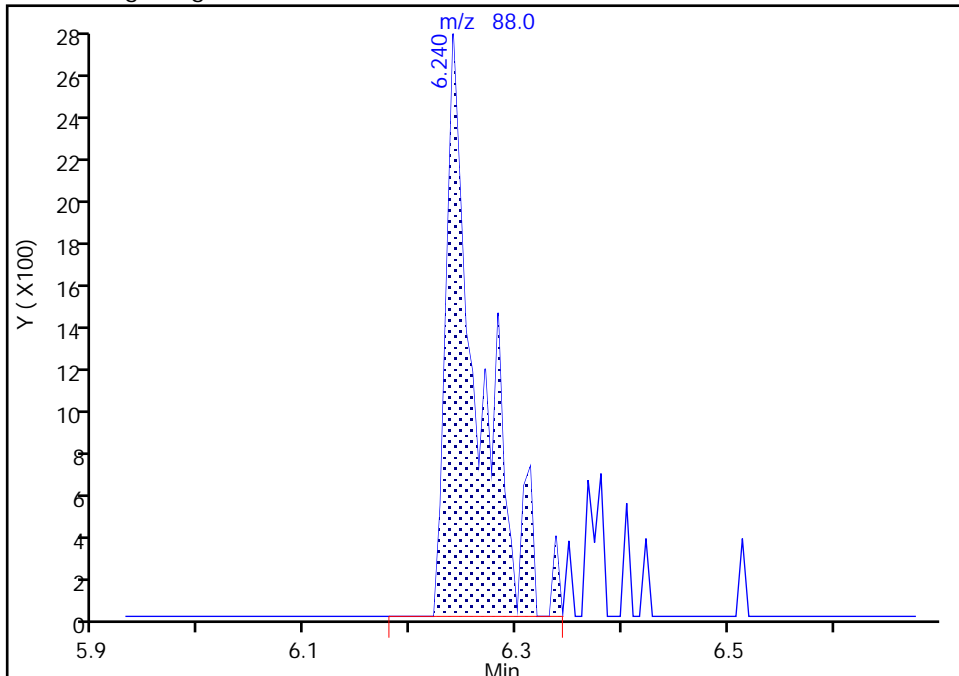
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

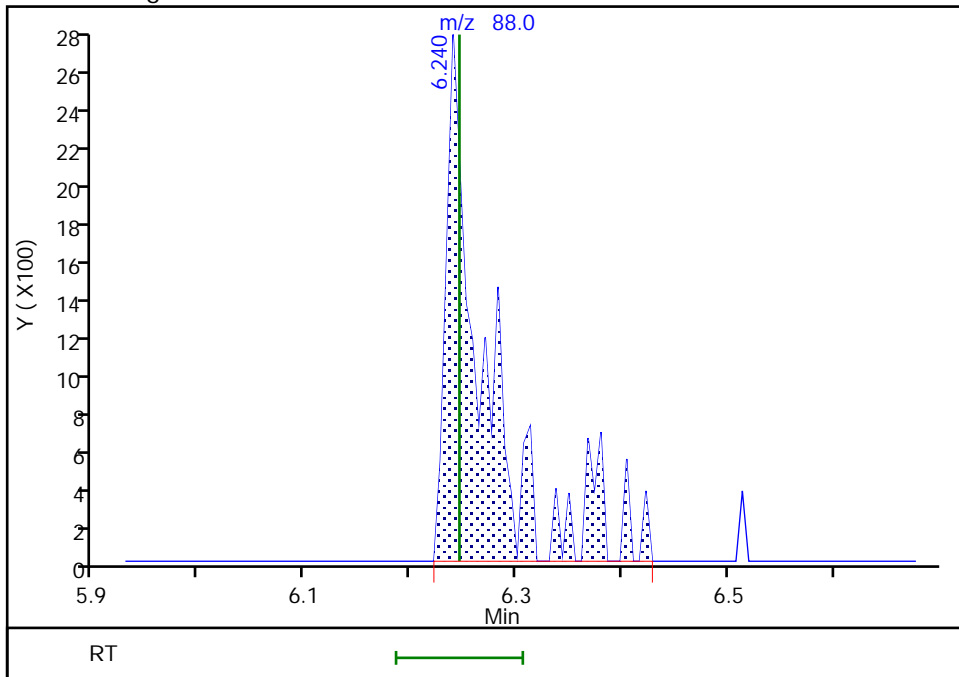
RT: 6.24
Area: 5894
Amount: 69.560976
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 6969
Amount: 89.712458
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:21:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-Jun-2018 15:24:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0072482-009
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:56 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:35:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	204294	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.515	8.509	0.006	86	404541	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	96	369559	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	237971	25.0	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	153221	25.0	23.9	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	981631	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	292377	25.0	24.2	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	95	100661	10.0	10.2	
12 Chloromethane	50	1.470	1.464	0.006	88	158120	10.0	10.1	
13 Vinyl chloride	62	1.549	1.549	0.000	95	135746	10.0	9.77	
151 Butadiene	54	1.580	1.574	0.006	84	141422	10.0	9.76	
14 Bromomethane	94	1.872	1.872	0.000	79	70373	10.0	9.45	
15 Chloroethane	64	1.975	1.969	0.006	82	79988	10.0	9.51	
17 Trichlorofluoromethane	101	2.206	2.194	0.012	72	122840	10.0	9.33	
16 Dichlorofluoromethane	67	2.200	2.194	0.006	94	161069	10.0	8.74	
18 Ethyl ether	59	2.498	2.492	0.006	85	119421	10.0	10.2	
20 Acrolein	56	2.687	2.687	0.000	89	106044	50.0	47.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.705	0.006	54	83709	10.0	10.7	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	90	96639	10.0	10.7	M
23 Acetone	43	2.851	2.851	0.000	97	172269	50.0	43.8	
25 Iodomethane	142	2.888	2.894	-0.006	96	139498	10.0	10.6	
26 Carbon disulfide	76	2.918	2.918	0.000	96	285284	10.0	9.92	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	86	155269	10.0	8.87	
27 Methyl acetate	43	3.149	3.143	0.006	95	190812	20.0	18.5	M
30 Methylene Chloride	84	3.253	3.253	0.000	94	127431	10.0	9.65	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	92	137981	100.0	103.6	M
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	330882	10.0	9.78	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	82	105184	10.0	10.2	
33 Acrylonitrile	53	3.539	3.539	0.000	100	554059	100.0	101.0	
35 Hexane	57	3.660	3.660	0.000	84	187621	10.0	9.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	97	221389	10.0	10.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	522220	20.0	20.8	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	117878	10.0	9.78	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	79	125542	10.0	10.6	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	291158	50.0	48.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	94	56519	10.0	9.97	
49 Tetrahydrofuran	42	4.713	4.713	0.000	85	78819	20.0	19.0	
50 Chloroform	83	4.774	4.774	0.000	93	185827	10.0	9.79	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	88	136975	10.0	9.68	
52 Cyclohexane	56	4.877	4.883	-0.006	89	192312	10.0	10.1	M
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	116898	10.0	9.86	
54 1,1-Dichloropropene	75	5.035	5.029	0.006	95	138232	10.0	9.59	
57 Benzene	78	5.242	5.236	0.006	92	434302	10.0	10.0	
53 Isobutyl alcohol	43	5.272	5.266	0.006	93	139911	250.0	249.6	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	76	175124	10.0	10.0	
59 n-Heptane	43	5.412	5.412	0.000	89	170684	10.0	9.64	
62 Trichloroethene	95	5.850	5.850	0.000	95	111214	10.0	9.95	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	172282	10.0	10.1	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	96	133728	10.0	10.2	
67 Dibromomethane	93	6.234	6.234	0.000	92	73081	10.0	10.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	11	18780	200.0	217.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	96	133887	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	86	88719	10.0	10.2	
72 cis-1,3-Dichloropropene	75	6.799	6.806	-0.007	88	174306	10.0	10.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	670794	50.0	51.9	
74 Toluene	92	7.091	7.085	0.006	88	273964	10.0	10.2	
77 trans-1,3-Dichloropropene	75	7.371	7.377	-0.006	96	157325	10.0	10.6	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	153587	10.0	10.6	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	90	81284	10.0	10.0	
81 Tetrachloroethene	166	7.621	7.615	0.006	75	114249	10.0	10.1	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	92	178659	10.0	10.5	
80 2-Hexanone	43	7.791	7.791	0.000	91	493778	50.0	51.9	
83 Chlorodibromomethane	129	7.961	7.961	0.000	86	97396	10.0	10.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	104411	10.0	10.2	
87 Chlorobenzene	112	8.539	8.539	0.000	92	300247	10.0	10.2	
88 Ethylbenzene	91	8.631	8.631	0.000	99	505219	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	56	101180	10.0	10.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	193403	10.0	9.81	
91 o-Xylene	106	9.178	9.178	0.000	97	196385	10.0	10.5	
92 Styrene	104	9.215	9.209	0.006	93	331254	10.0	10.3	
95 Bromoform	173	9.464	9.464	0.000	93	60675	10.0	10.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	487020	10.0	10.5	
101 Bromobenzene	156	9.908	9.908	0.000	95	123511	10.0	10.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	73	132068	10.0	10.4	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	572209	10.0	10.6	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	44716	10.0	10.7	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	75	40802	10.0	9.41	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	115644	10.0	9.95	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	95	432135	10.0	10.7	
105 4-Chlorotoluene	126	10.200	10.200	0.000	81	123635	10.0	10.4	
106 tert-Butylbenzene	134	10.474	10.474	0.000	91	90461	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	54	441006	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	506385	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	236904	10.0	10.3	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	450095	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	242101	10.0	10.4	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	394458	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	241629	10.0	10.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	69	24435	10.0	9.95	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	165528	10.0	10.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	92	77538	10.0	10.1	
121 Naphthalene	128	12.877	12.877	0.000	97	468207	10.0	10.7	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	161462	10.0	10.9	
S 123 Total BTEX	1				0			50.9	
S 125 1,2-Dichloroethene, Total	1				0			20.8	
S 124 Xylenes, Total	1				0			20.3	
S 126 1,3-Dichloropropene, Total	1				0			21.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 5.00

Units: uL

GAS CORP mix_00287

Amount Added: 5.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D

Injection Date: 20-Jun-2018 15:24:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 4

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

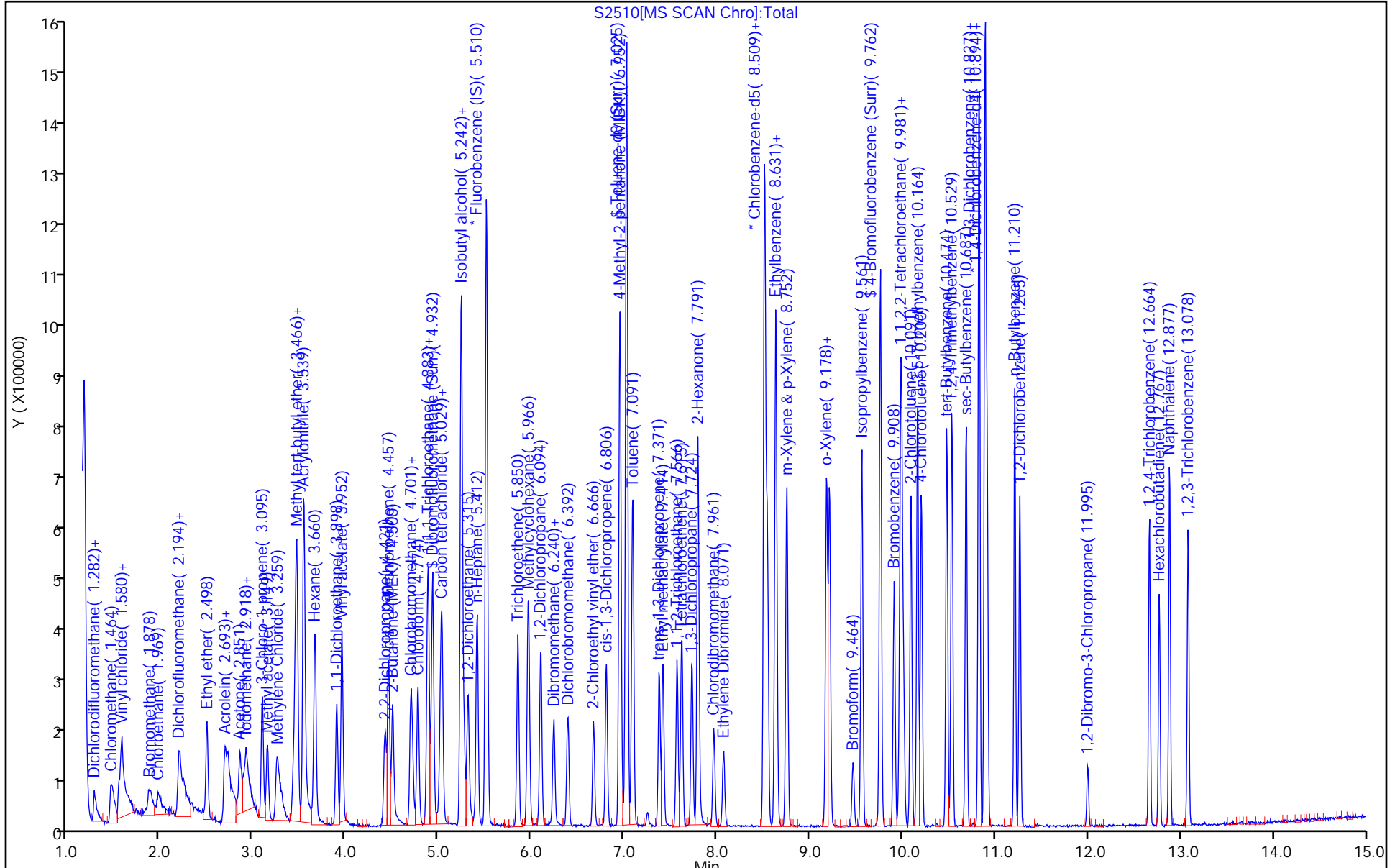
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

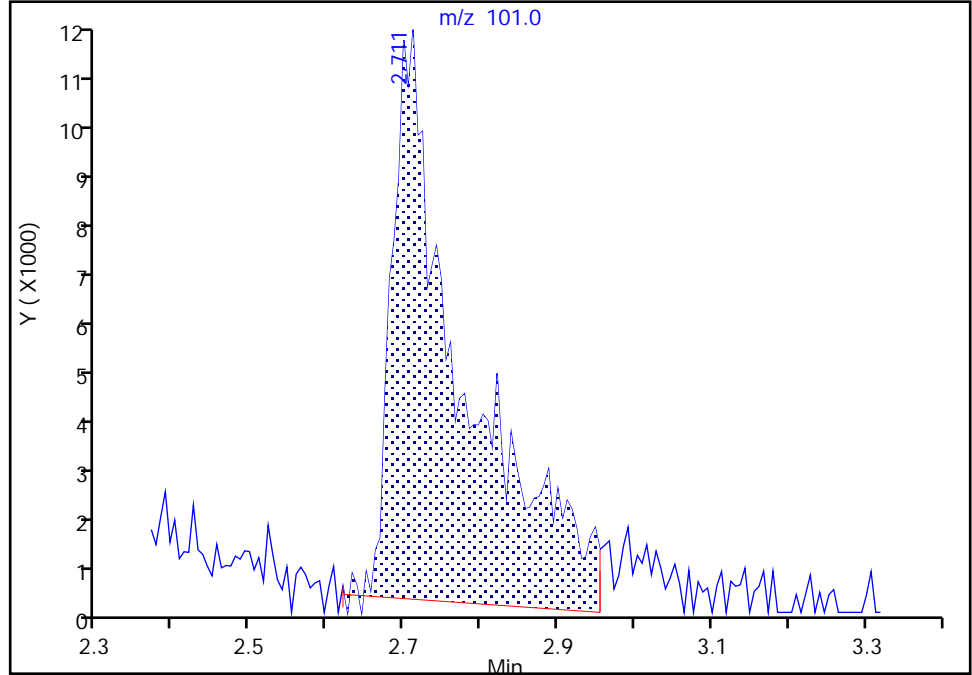
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

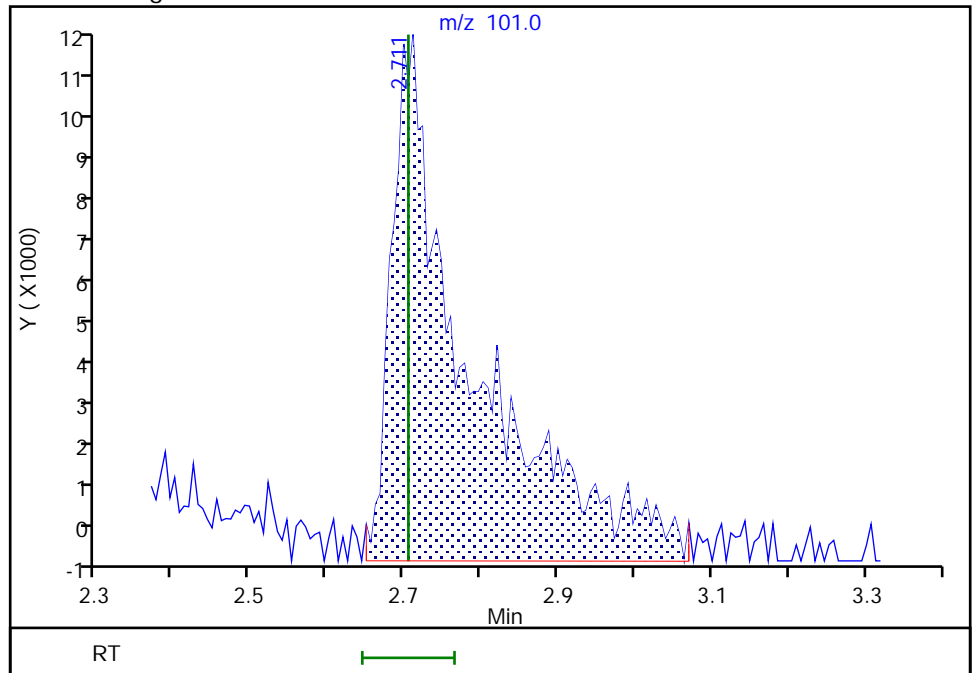
RT: 2.71
Area: 74021
Amount: 9.501471
Amount Units: ug/L

Processing Integration Results



RT: 2.71
Area: 83709
Amount: 10.683331
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:22:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

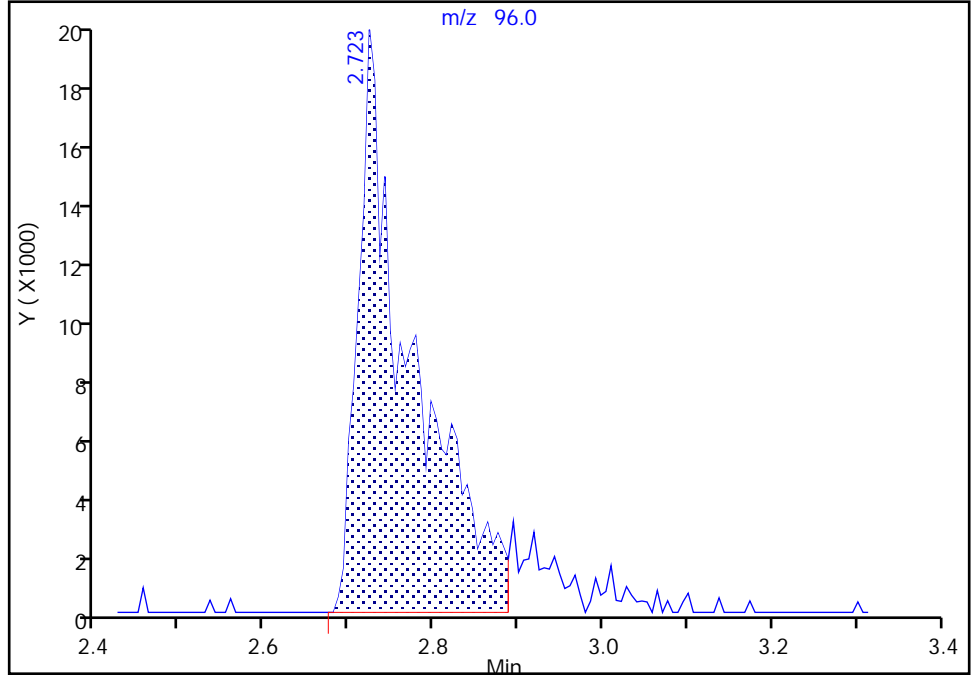
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

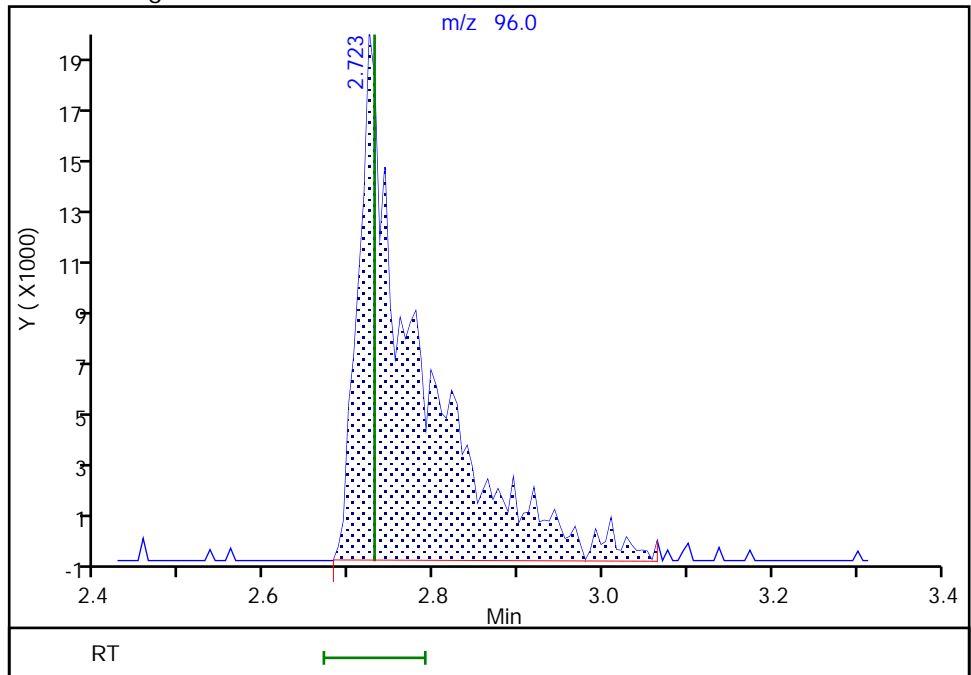
RT: 2.72
Area: 85549
Amount: 10.295861
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 96639
Amount: 10.709001
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

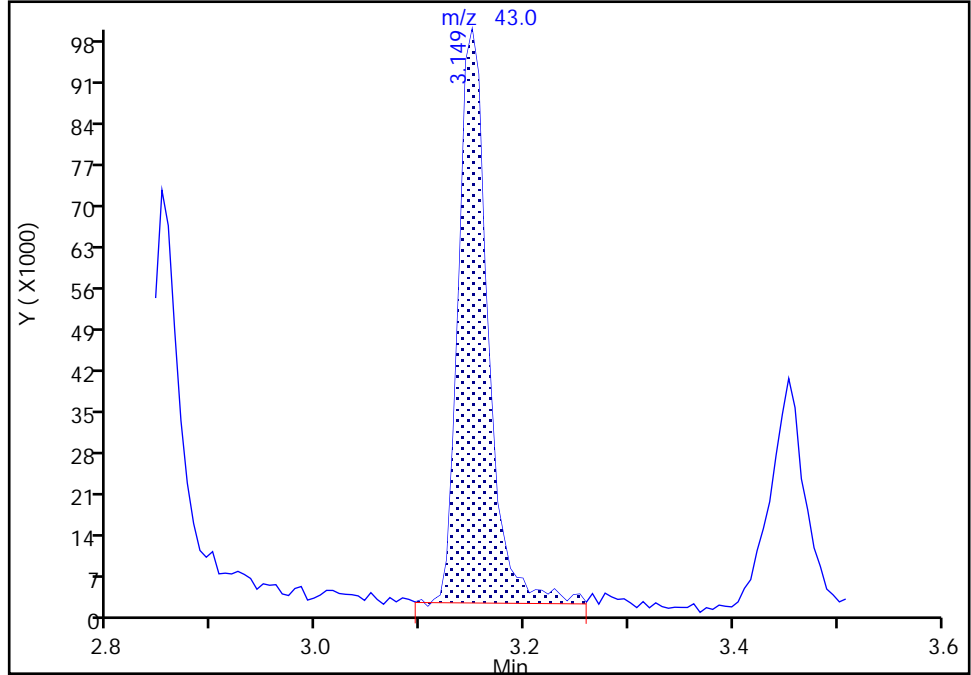
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

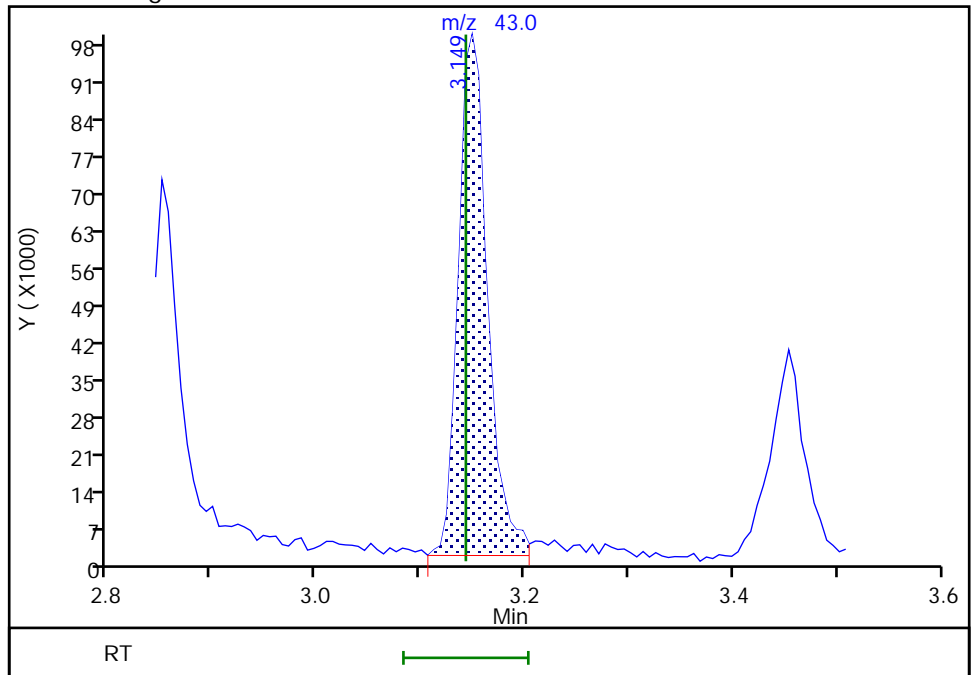
RT: 3.15
Area: 192902
Amount: 18.670750
Amount Units: ug/L

Processing Integration Results



RT: 3.15
Area: 190812
Amount: 18.491841
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:29:54
Audit Action: Manually Integrated

TestAmerica Buffalo

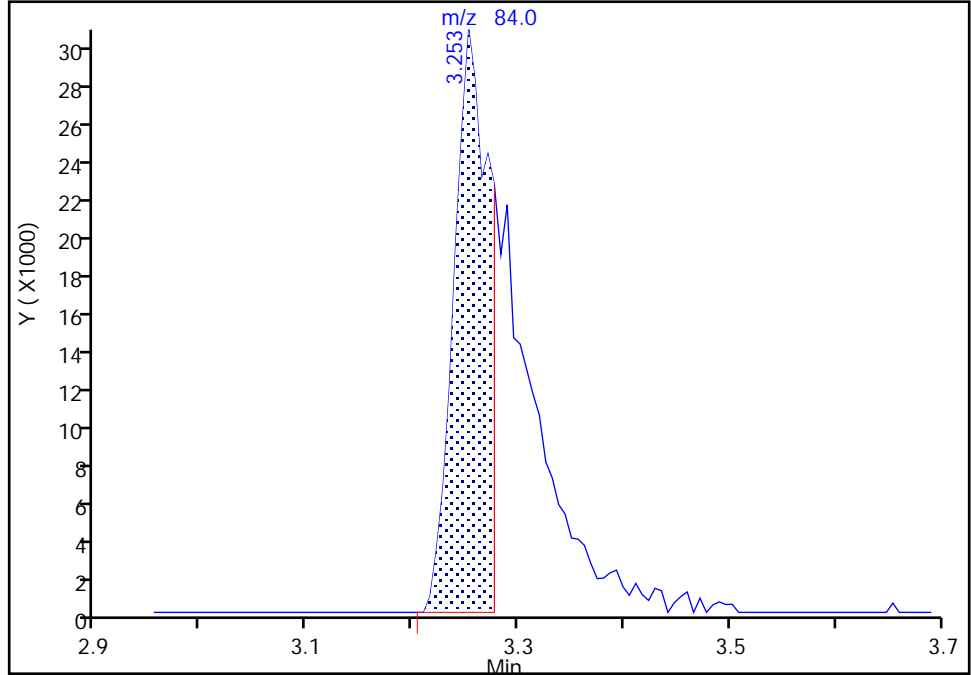
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

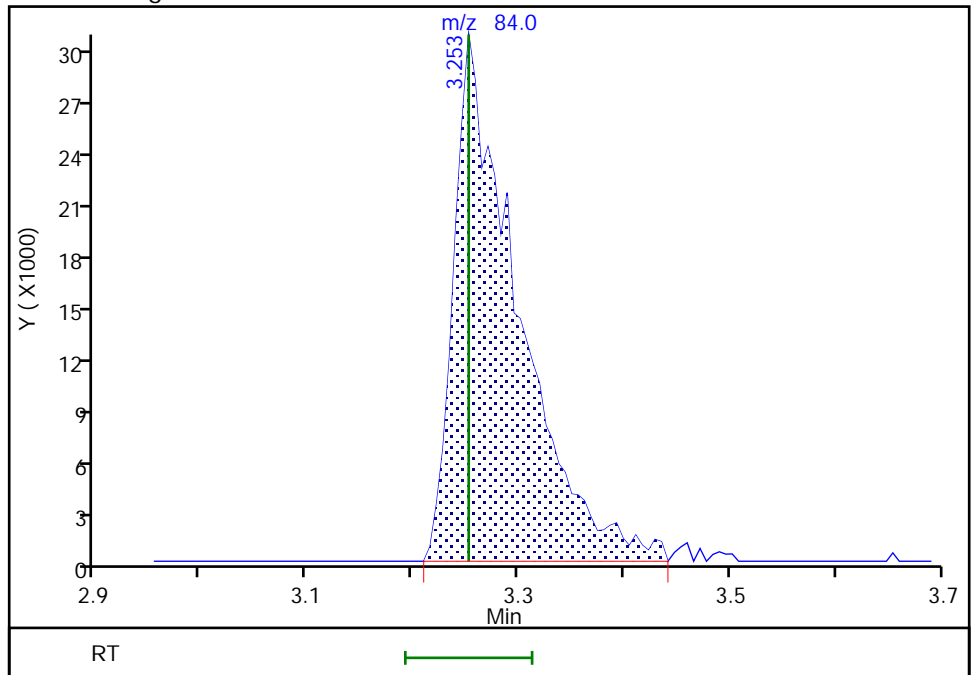
RT: 3.25
Area: 70355
Amount: 3.535941
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 127431
Amount: 9.654141
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:43:27
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

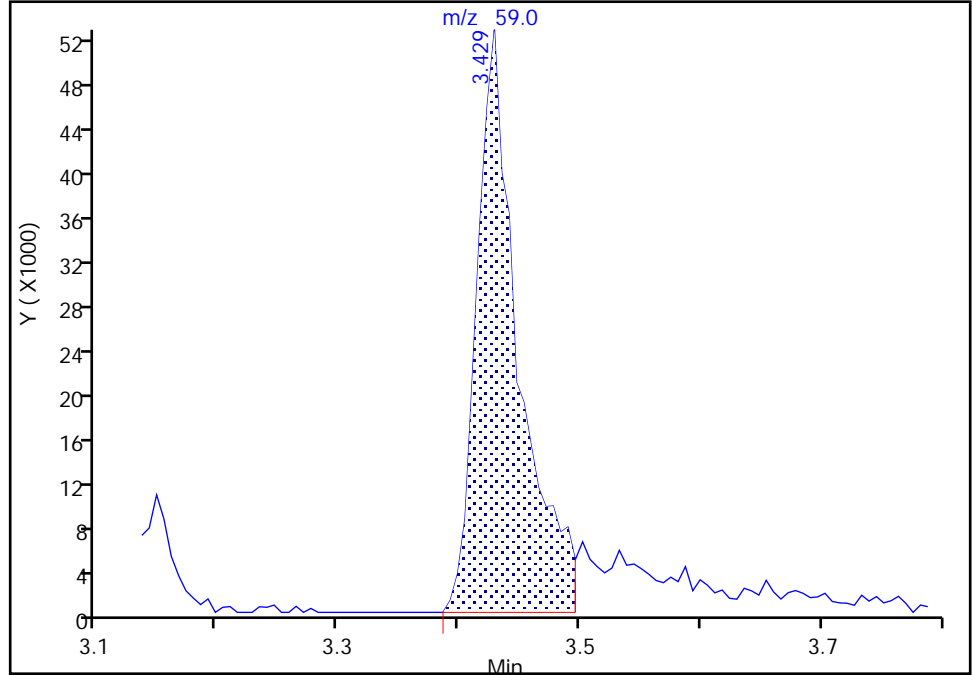
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

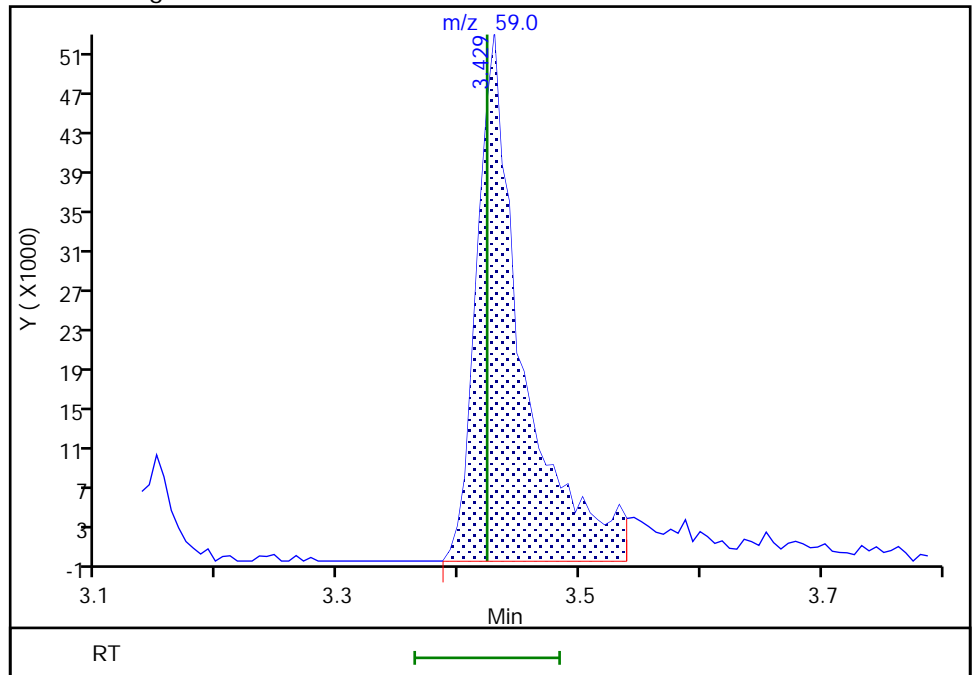
RT: 3.43
Area: 125953
Amount: 105.2771
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 137981
Amount: 103.6085
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:50:37
Audit Action: Manually Integrated

TestAmerica Buffalo

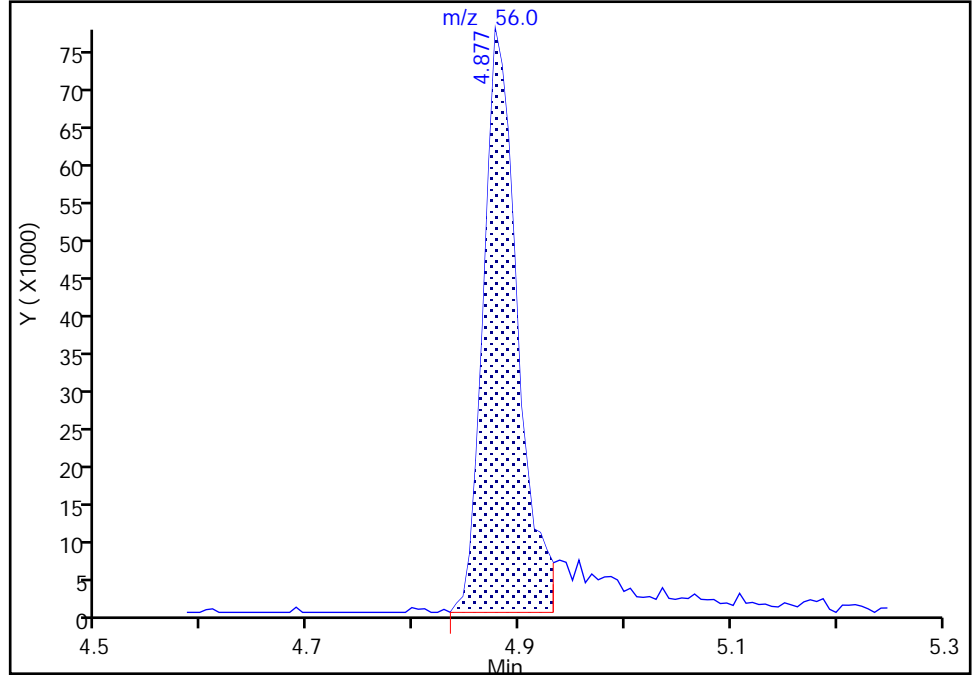
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

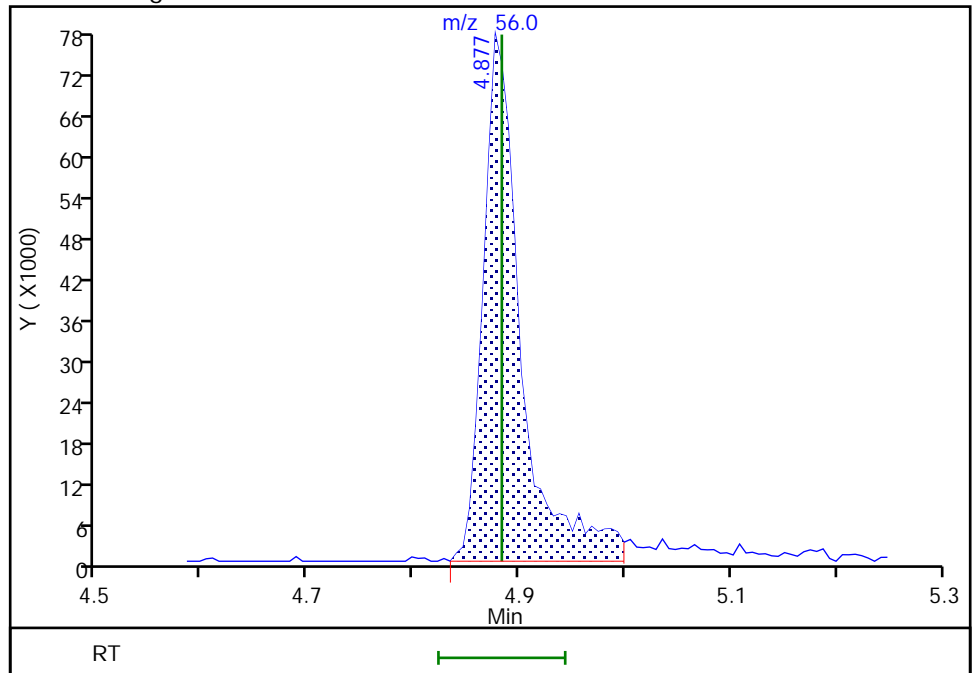
RT: 4.88
Area: 172484
Amount: 9.184054
Amount Units: ug/L

Processing Integration Results



RT: 4.88
Area: 192312
Amount: 10.106438
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:30:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 194 of 444

TestAmerica Buffalo

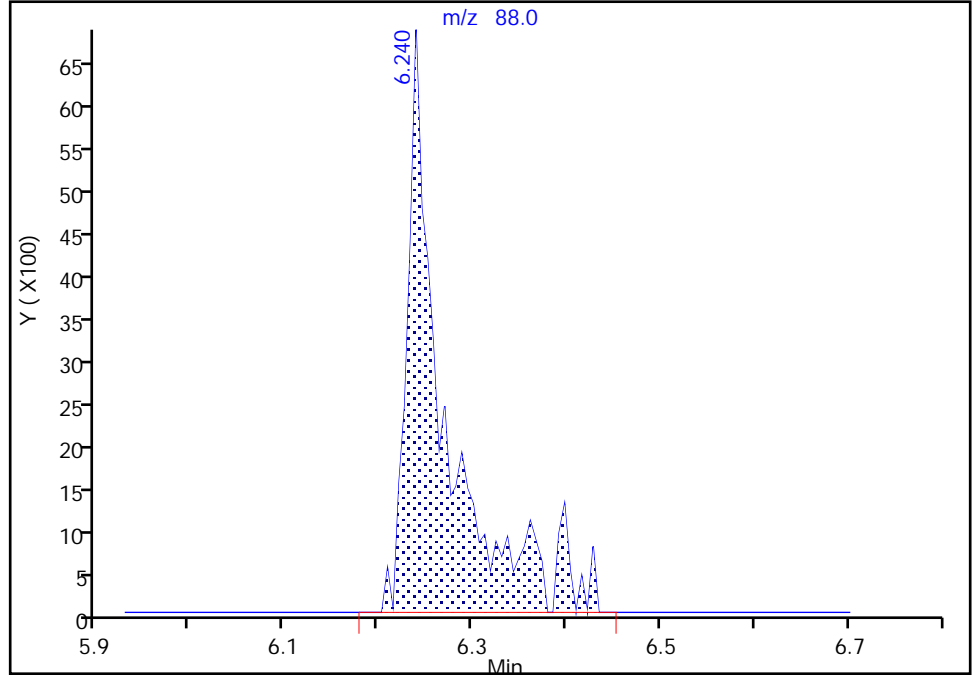
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

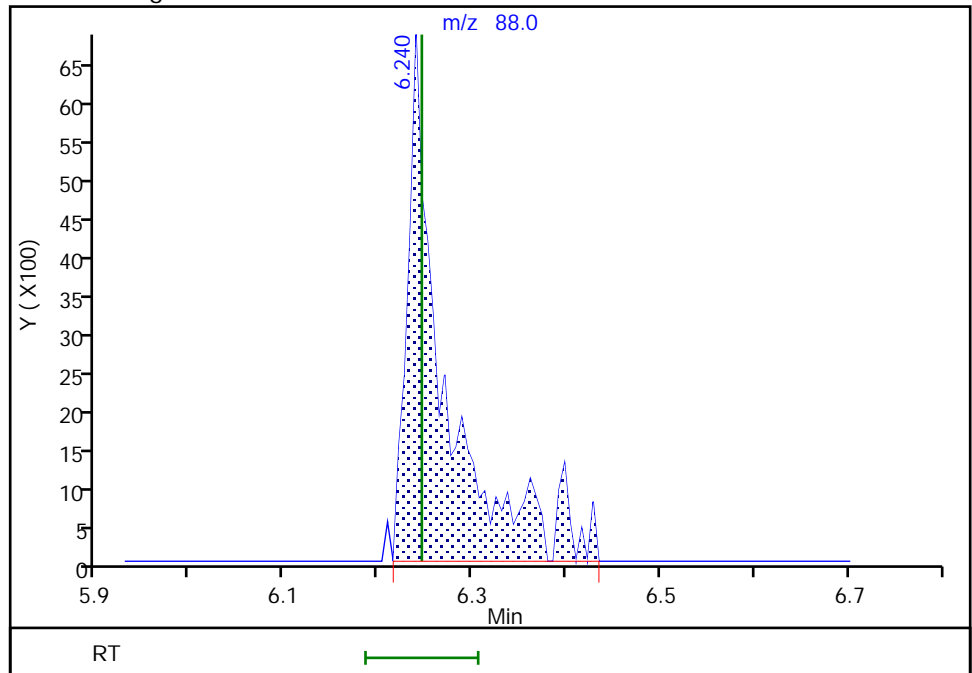
RT: 6.24
Area: 18966
Amount: 219.4414
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 18780
Amount: 217.5811
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:31:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 20-Jun-2018 15:48:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0072482-010
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:00 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:39:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	197139	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	406209	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	56	365129	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	58	233776	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	156084	25.0	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	970258	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	303043	25.0	24.9	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	97	248186	25.0	26.1	
12 Chloromethane	50	1.464	1.464	0.000	97	380591	25.0	25.2	
13 Vinyl chloride	62	1.549	1.549	0.000	63	333324	25.0	24.9	
151 Butadiene	54	1.574	1.574	0.000	56	325163	25.0	23.2	
14 Bromomethane	94	1.872	1.872	0.000	89	172433	25.0	24.0	
15 Chloroethane	64	1.969	1.969	0.000	97	204270	25.0	25.2	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	95	412155	25.0	23.2	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	76	332653	25.0	26.2	
18 Ethyl ether	59	2.492	2.492	0.000	92	290892	25.0	25.7	
20 Acrolein	56	2.687	2.687	0.000	95	284078	125.0	131.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	68	184140	25.0	23.9	
22 1,1-Dichloroethene	96	2.730	2.730	0.000	90	229631	25.0	26.4	
23 Acetone	43	2.851	2.851	0.000	100	412424	125.0	108.7	
25 Iodomethane	142	2.894	2.894	0.000	98	347195	25.0	27.3	
26 Carbon disulfide	76	2.918	2.918	0.000	98	700429	25.0	25.2	
28 3-Chloro-1-propene	41	3.089	3.089	0.000	88	413143	25.0	24.5	
27 Methyl acetate	43	3.143	3.143	0.000	95	441430	50.0	44.3	
30 Methylene Chloride	84	3.253	3.253	0.000	97	284846	25.0	24.7	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	95	307003	250.0	238.9	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	92	832097	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	95	255195	25.0	25.6	
33 Acrylonitrile	53	3.539	3.539	0.000	98	1323936	250.0	250.1	
35 Hexane	57	3.660	3.660	0.000	84	446557	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	96	523385	25.0	24.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	1230989	50.0	50.9	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	297960	25.0	25.6	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	298747	25.0	26.1	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	717854	125.0	123.3	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	146527	25.0	26.8	
49 Tetrahydrofuran	42	4.713	4.713	0.000	93	202767	50.0	50.7	
50 Chloroform	83	4.774	4.774	0.000	93	443774	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	94	345970	25.0	25.3	
52 Cyclohexane	56	4.883	4.883	0.000	89	482758	25.0	26.3	
55 Carbon tetrachloride	117	5.011	5.011	0.000	89	300091	25.0	26.2	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	93	338452	25.0	24.3	
57 Benzene	78	5.236	5.236	0.000	96	1062500	25.0	25.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	94	329152	625.0	608.4	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	415950	25.0	24.6	
59 n-Heptane	43	5.412	5.412	0.000	91	415475	25.0	24.3	
62 Trichloroethene	95	5.850	5.850	0.000	97	271489	25.0	25.2	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	424498	25.0	25.8	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	95	311720	25.0	24.7	
67 Dibromomethane	93	6.234	6.234	0.000	94	168616	25.0	25.6	
66 1,4-Dioxane	88	6.246	6.246	0.000	29	46908	500.0	521.5	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	344167	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	88	225325	25.0	26.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	423733	25.0	26.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1601823	125.0	123.5	
74 Toluene	92	7.085	7.085	0.000	94	659595	25.0	24.4	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	93	391909	25.0	26.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	383401	25.0	26.3	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	202209	25.0	24.9	
81 Tetrachloroethene	166	7.615	7.615	0.000	85	279490	25.0	24.5	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	94	425777	25.0	24.8	
80 2-Hexanone	43	7.791	7.791	0.000	90	1170919	125.0	122.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	247163	25.0	26.7	
84 Ethylene Dibromide	107	8.071	8.071	0.000	97	252512	25.0	24.6	
87 Chlorobenzene	112	8.539	8.539	0.000	93	730835	25.0	24.7	
88 Ethylbenzene	91	8.631	8.631	0.000	99	1214363	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	246580	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	469623	25.0	23.7	
91 o-Xylene	106	9.178	9.178	0.000	97	471745	25.0	25.1	
92 Styrene	104	9.209	9.209	0.000	92	821536	25.0	25.5	
95 Bromoform	173	9.464	9.464	0.000	95	156408	25.0	26.5	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	1180615	25.0	25.6	
101 Bromobenzene	156	9.908	9.908	0.000	97	304349	25.0	26.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	72	315135	25.0	25.2	
99 N-Propylbenzene	91	9.987	9.987	0.000	98	1379737	25.0	25.9	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	70	107926	25.0	26.2	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	114077	25.0	25.6	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	288633	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	83	1006297	25.0	25.2	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	309390	25.0	26.3	
106 tert-Butylbenzene	134	10.474	10.474	0.000	93	228134	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1069434	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1239742	25.0	25.9	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1092636	25.0	26.5	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	573712	25.0	25.4	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	581426	25.0	25.2	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	994221	25.0	26.8	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	93	559407	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	76	66108	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	411331	25.0	26.0	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	195098	25.0	25.8	
121 Naphthalene	128	12.877	12.877	0.000	97	1171879	25.0	27.1	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	393148	25.0	26.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D

Injection Date: 20-Jun-2018 15:48:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: ICIS 5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

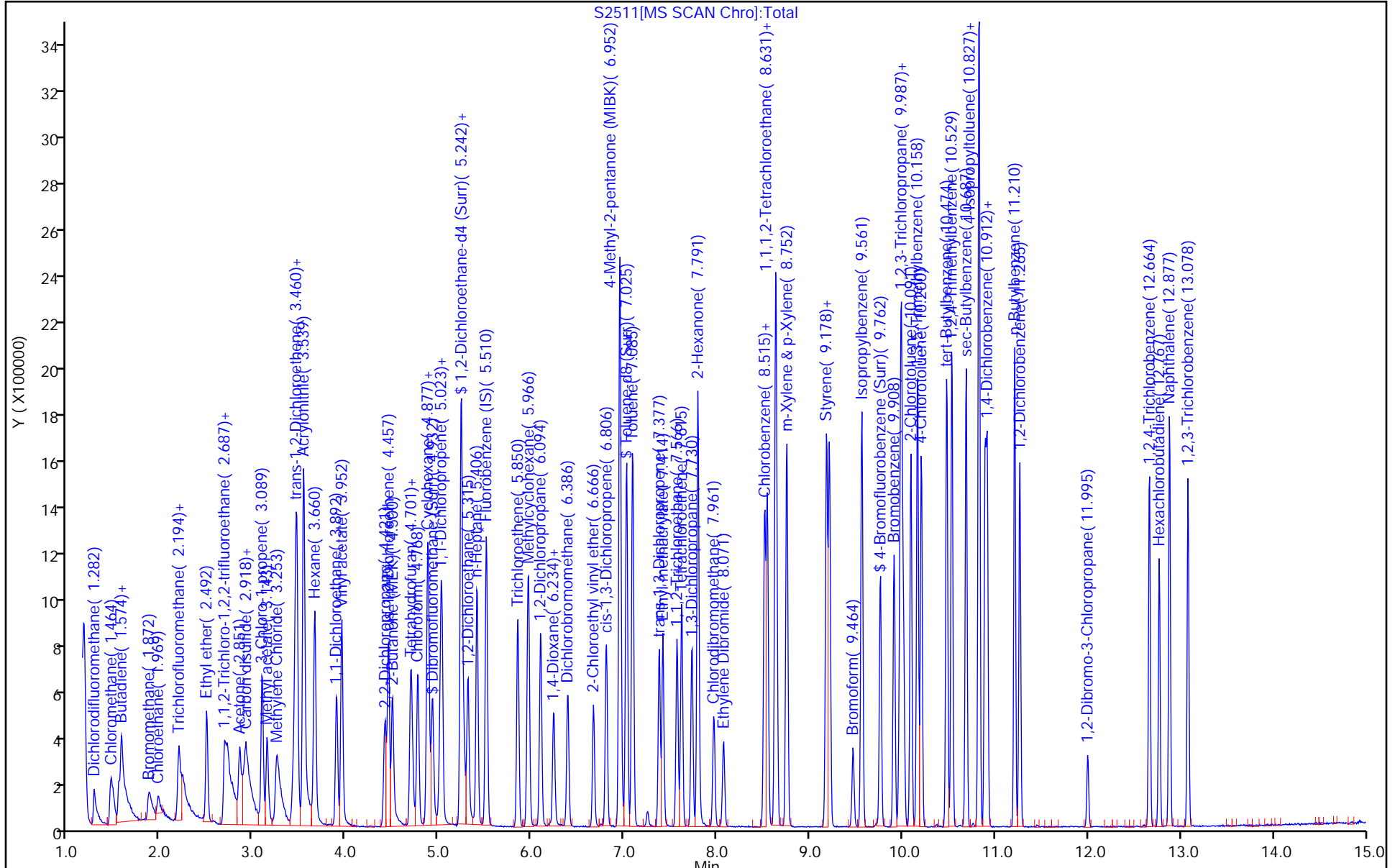
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

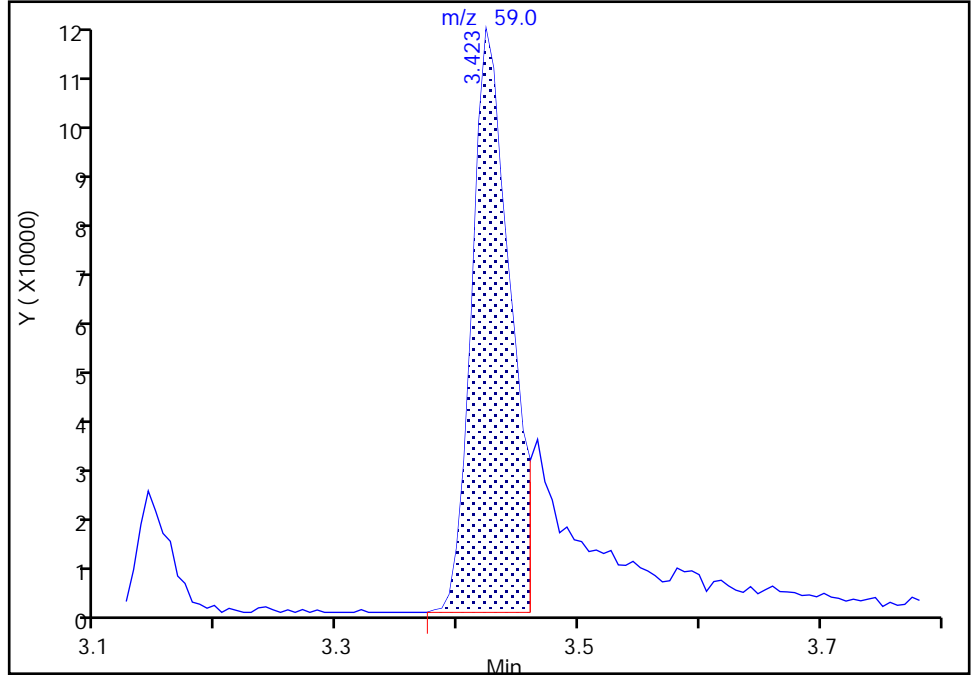
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D
Injection Date: 20-Jun-2018 15:48:30 Instrument ID: HP5973S
Lims ID: ICIS 5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

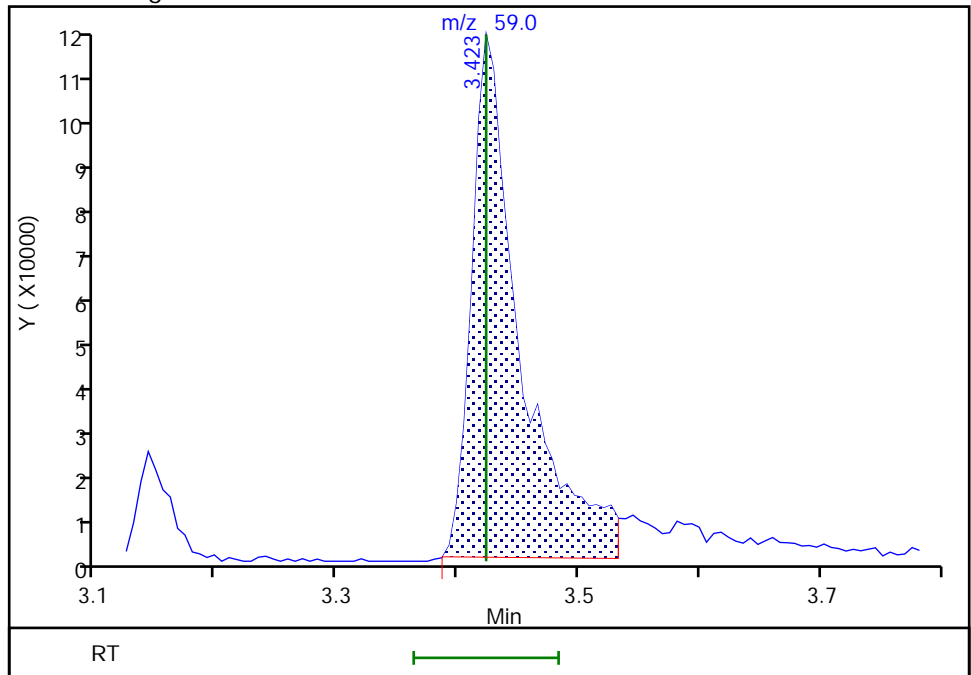
RT: 3.42
Area: 243993
Amount: 233.1605
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 307003
Amount: 238.8921
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:49:52
Audit Action: Manually Integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 20-Jun-2018 16:11:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0072482-011
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:07 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:20:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	192452	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394691	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	42	371185	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	56	244934	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	158160	25.0	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	89	970429	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	302035	25.0	25.6	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	99	556127	50.0	60.0	
12 Chloromethane	50	1.458	1.464	-0.006	99	752596	50.0	51.1	
13 Vinyl chloride	62	1.543	1.549	-0.006	93	722212	50.0	55.2	
151 Butadiene	54	1.574	1.574	0.000	86	714525	50.0	52.3	
14 Bromomethane	94	1.878	1.872	0.006	88	360223	50.0	51.3	
15 Chloroethane	64	1.969	1.969	0.000	99	423584	50.0	53.5	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	81	736903	50.0	59.4	M
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	843653	50.0	48.6	
18 Ethyl ether	59	2.492	2.492	0.000	92	596459	50.0	54.1	
20 Acrolein	56	2.681	2.687	-0.006	96	575962	250.0	272.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	65	364156	50.0	48.0	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	95	465301	50.0	54.7	
23 Acetone	43	2.845	2.851	-0.006	97	904483	250.0	244.3	
25 Iodomethane	142	2.894	2.894	0.000	97	730136	50.0	58.7	
26 Carbon disulfide	76	2.918	2.918	0.000	98	1472959	50.0	54.4	
28 3-Chloro-1-propene	41	3.088	3.089	0.000	88	844115	50.0	51.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	983740	100.0	101.2	
30 Methylene Chloride	84	3.253	3.253	0.000	98	551561	50.0	50.8	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	94	680866	500.0	542.7	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	1670515	50.0	52.4	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	93	508786	50.0	52.3	
33 Acrylonitrile	53	3.539	3.539	0.000	98	2745107	500.0	531.3	
35 Hexane	57	3.660	3.660	0.000	83	940801	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.891	3.892	-0.001	97	1069251	50.0	52.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	2352331	100.0	99.5	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	92	592229	50.0	52.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	596033	50.0	53.3	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	1439504	250.0	253.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	97	285479	50.0	53.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	90	387841	100.0	99.3	
50 Chloroform	83	4.768	4.774	-0.006	94	907363	50.0	50.7	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	95	716429	50.0	53.8	
52 Cyclohexane	56	4.883	4.883	0.000	91	997545	50.0	55.6	
55 Carbon tetrachloride	117	5.017	5.011	0.006	92	637175	50.0	57.1	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	714312	50.0	52.6	
57 Benzene	78	5.236	5.236	0.000	97	2128022	50.0	52.1	
53 Isobutyl alcohol	43	5.266	5.266	0.000	97	721955	1250.0	1367.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	79	838833	50.0	50.9	
59 n-Heptane	43	5.406	5.412	-0.006	91	829266	50.0	49.7	
62 Trichloroethene	95	5.850	5.850	0.000	97	545392	50.0	51.8	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	895898	50.0	55.9	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	642638	50.0	52.2	
67 Dibromomethane	93	6.234	6.234	0.000	91	338999	50.0	52.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	33	91625	1000.0	1034.9	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	708669	50.0	57.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	451891	50.0	55.0	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	863532	50.0	55.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	3068632	250.0	243.5	
74 Toluene	92	7.085	7.085	0.000	95	1345091	50.0	51.3	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	95	800744	50.0	55.4	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	758693	50.0	53.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	92	408565	50.0	51.7	
81 Tetrachloroethene	166	7.615	7.615	0.000	87	580239	50.0	52.4	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	866770	50.0	52.0	
80 2-Hexanone	43	7.791	7.791	0.000	90	2254226	250.0	243.0	
83 Chlorodibromomethane	129	7.967	7.961	0.006	90	515833	50.0	57.4	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	508600	50.0	51.1	
87 Chlorobenzene	112	8.539	8.539	0.000	92	1474031	50.0	51.3	
88 Ethylbenzene	91	8.631	8.631	0.000	98	2446781	50.0	51.7	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.643	-0.006	48	510400	50.0	54.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	969691	50.0	50.4	
91 o-Xylene	106	9.178	9.178	0.000	97	960148	50.0	52.6	
92 Styrene	104	9.209	9.209	0.000	94	1666910	50.0	53.2	
95 Bromoform	173	9.464	9.464	0.000	97	339740	50.0	59.2	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	2412885	50.0	51.6	
101 Bromobenzene	156	9.908	9.908	0.000	95	604551	50.0	51.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	75	630975	50.0	49.6	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	2782295	50.0	51.3	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	69	221749	50.0	53.0	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	231344	50.0	50.4	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	577783	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	85	2040375	50.0	50.3	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	620467	50.0	51.9	
106 tert-Butylbenzene	134	10.480	10.474	0.006	93	469785	50.0	54.3	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	2132089	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	2510799	50.0	51.6	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	1163942	50.0	50.6	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	2224584	50.0	53.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	1170382	50.0	49.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1968301	50.0	52.1	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	1131910	50.0	50.0	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	82	138297	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	859177	50.0	53.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	404793	50.0	52.6	
121 Naphthalene	128	12.877	12.877	0.000	97	2369399	50.0	53.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	95	796689	50.0	53.6	
S 123 Total BTEX	1				0			258.1	
S 125 1,2-Dichloroethene, Total	1				0			105.6	
S 124 Xylenes, Total	1				0			103.0	
S 126 1,3-Dichloropropene, Total	1				0			110.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 25.00

Units: uL

GAS CORP mix_00287

Amount Added: 25.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D

Injection Date: 20-Jun-2018 16:11:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 6

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

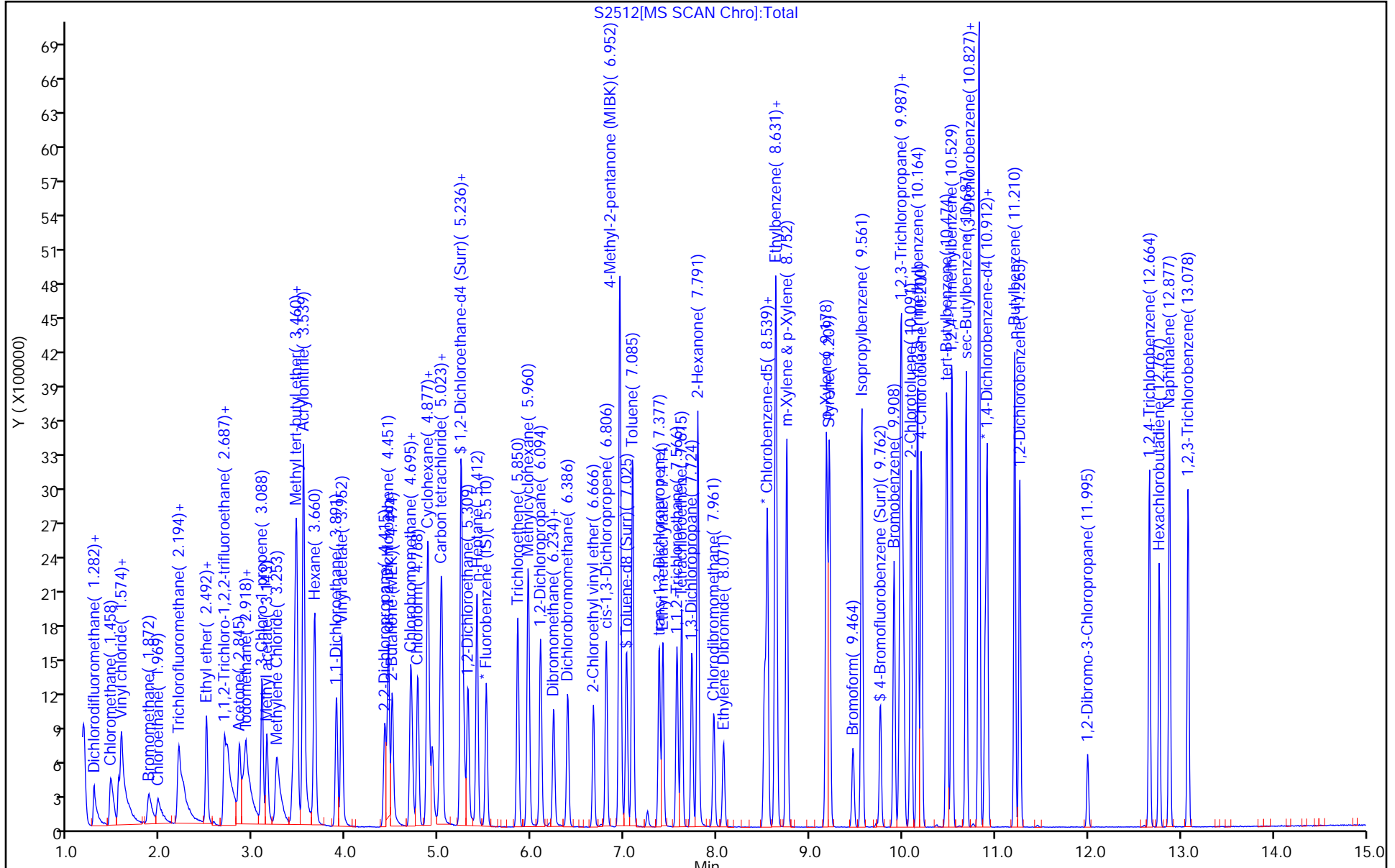
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

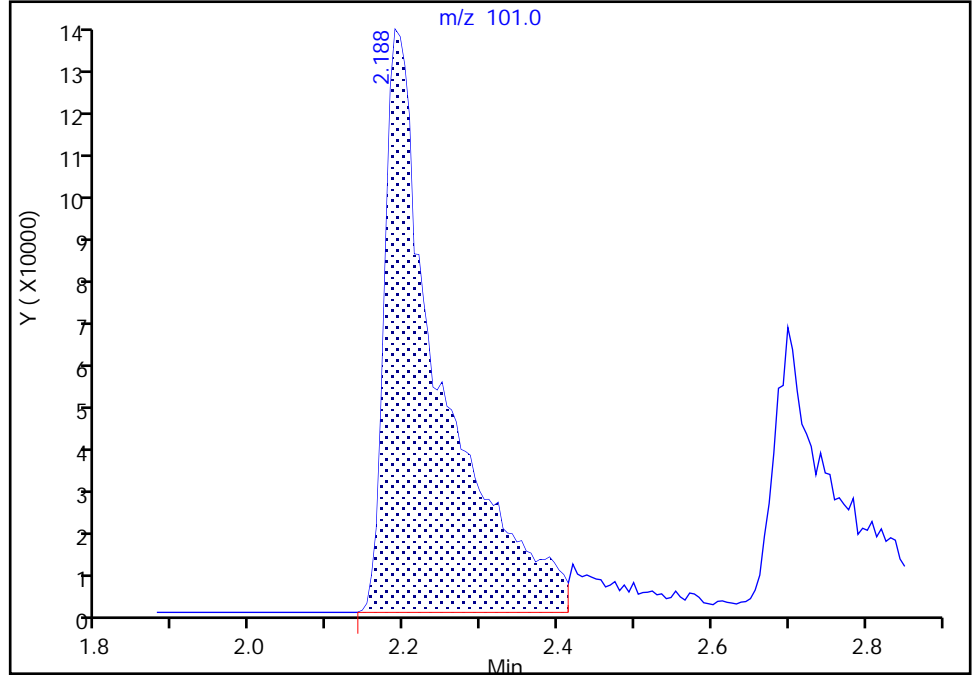
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Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

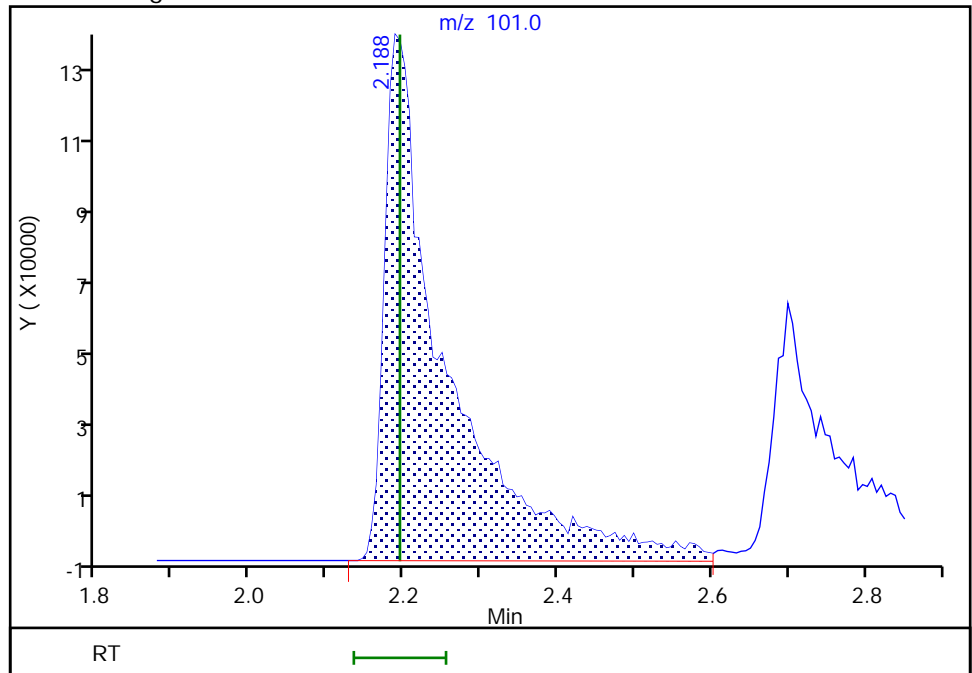
RT: 2.19
Area: 674194
Amount: 50.268036
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 736903
Amount: 59.400714
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 23:01:35
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 205 of 444

TestAmerica Buffalo

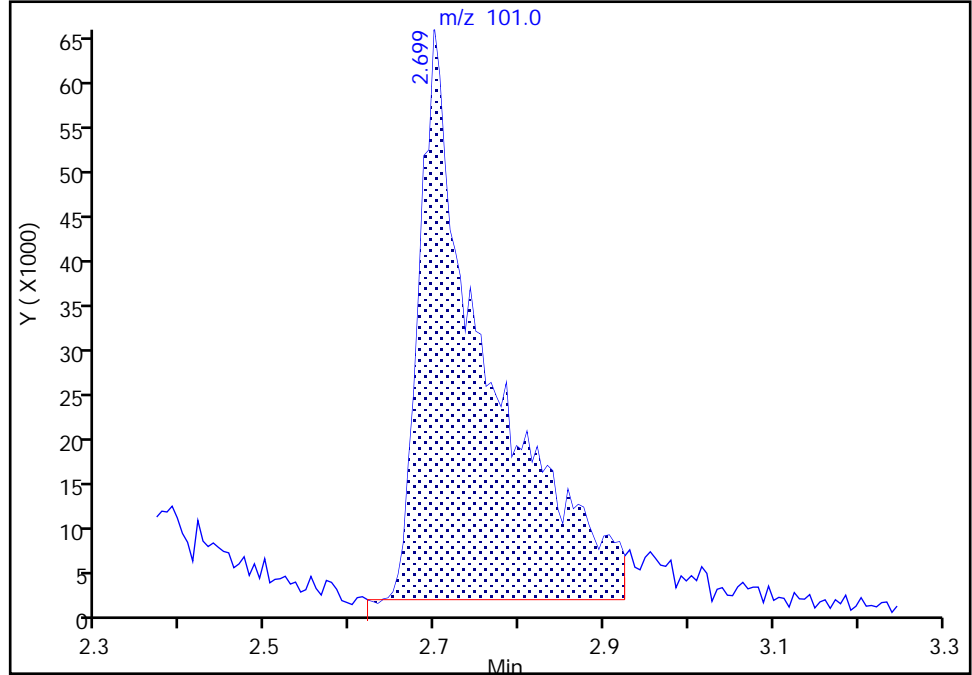
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Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

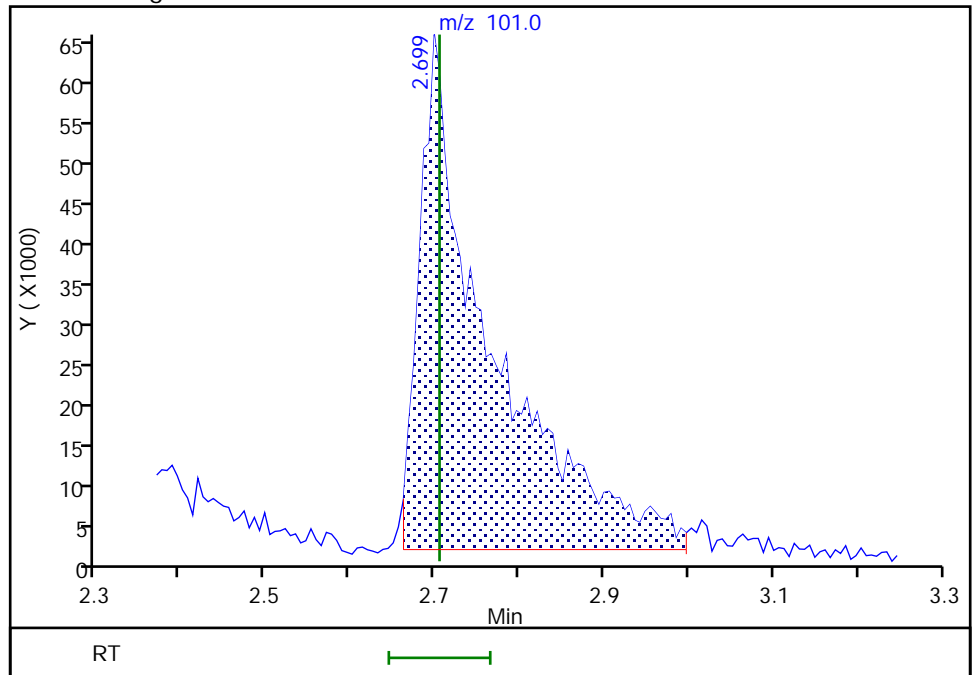
RT: 2.70
Area: 349411
Amount: 45.201404
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 364156
Amount: 47.992777
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:33:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 20-Jun-2018 16:34:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0072482-012
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:11 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	203954	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	404509	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	17	376772	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	247091	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	152101	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	64	969583	25.0	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	306600	25.0	25.3	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	1042243	100.0	106.1	M
12 Chloromethane	50	1.464	1.464	0.000	99	1481396	100.0	94.9	
13 Vinyl chloride	62	1.543	1.549	-0.006	82	1374584	100.0	99.1	
151 Butadiene	54	1.574	1.574	0.000	82	1368549	100.0	94.6	
14 Bromomethane	94	1.878	1.872	0.006	91	712144	100.0	95.8	
15 Chloroethane	64	1.969	1.969	0.000	99	830061	100.0	98.8	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	1716432	100.0	93.3	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	85	1437497	100.0	109.3	
18 Ethyl ether	59	2.492	2.492	0.000	92	1181934	100.0	101.1	
20 Acrolein	56	2.687	2.687	0.000	98	1162249	500.0	518.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	59	822020	100.0	101.8	M
22 1,1-Dichloroethene	96	2.724	2.730	-0.006	94	990419	100.0	109.9	
23 Acetone	43	2.845	2.851	-0.006	98	1835772	500.0	467.8	
25 Iodomethane	142	2.894	2.894	0.000	98	1547832	100.0	117.5	
26 Carbon disulfide	76	2.918	2.918	0.000	98	3032330	100.0	105.6	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	89	1733446	100.0	99.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	1983551	200.0	192.5	
30 Methylene Chloride	84	3.253	3.253	0.000	96	1126336	100.0	99.6	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	1598960	1000.0	1202.6	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	3395940	100.0	100.6	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	92	1050113	100.0	101.9	
33 Acrylonitrile	53	3.539	3.539	0.000	97	5416558	1000.0	989.2	
35 Hexane	57	3.660	3.660	0.000	87	1983165	100.0	104.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	2191279	100.0	100.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	4622714	200.0	184.6	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	1257016	100.0	104.4	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	1225447	100.0	103.4	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	95	3041661	500.0	504.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	98	585187	100.0	103.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	87	822605	200.0	198.7	
50 Chloroform	83	4.774	4.774	0.000	93	1854730	100.0	97.9	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	1501541	100.0	106.3	
52 Cyclohexane	56	4.877	4.883	-0.006	91	2165602	100.0	114.0	
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	1320508	100.0	111.6	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	1495256	100.0	103.9	
57 Benzene	78	5.236	5.236	0.000	98	4301395	100.0	99.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	95	1557611	2500.0	2783.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	83	1702374	100.0	97.4	
59 n-Heptane	43	5.406	5.412	-0.006	91	1743611	100.0	98.6	
62 Trichloroethene	95	5.850	5.850	0.000	97	1155378	100.0	103.5	
64 Methylcyclohexane	83	5.960	5.960	0.000	93	1857834	100.0	109.3	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	1287446	100.0	98.6	
67 Dibromomethane	93	6.234	6.234	0.000	90	708426	100.0	104.0	
66 1,4-Dioxane	88	6.240	6.246	-0.006	35	176888	2000.0	1937.7	
68 Dichlorobromomethane	83	6.386	6.386	0.000	99	1480734	100.0	112.8	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	926261	100.0	106.3	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	91	1778596	100.0	107.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	91	5759555	500.0	446.0	
74 Toluene	92	7.092	7.085	0.007	97	2760907	100.0	102.7	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	94	1691433	100.0	114.2	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	1589664	100.0	109.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	844173	100.0	104.2	
81 Tetrachloroethene	166	7.621	7.615	0.006	85	1184748	100.0	104.3	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	93	1776603	100.0	104.0	
80 2-Hexanone	43	7.791	7.791	0.000	87	4341846	500.0	456.8	
83 Chlorodibromomethane	129	7.968	7.961	0.007	91	1120056	100.0	121.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	1055354	100.0	103.4	
87 Chlorobenzene	112	8.539	8.539	0.000	92	3001103	100.0	101.8	
88 Ethylbenzene	91	8.631	8.631	0.000	98	4820637	100.0	99.5	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	1084784	100.0	113.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	2043355	100.0	103.6	
91 o-Xylene	106	9.178	9.178	0.000	97	1982170	100.0	105.9	
92 Styrene	104	9.209	9.209	0.000	94	3414832	100.0	106.3	
95 Bromoform	173	9.464	9.464	0.000	97	760638	100.0	129.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	4783571	100.0	100.7	
101 Bromobenzene	156	9.908	9.908	0.000	96	1270447	100.0	105.7	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	80	1304499	100.0	101.1	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	5345840	100.0	97.1	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	441615	100.0	103.9	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	79	502274	100.0	107.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	1194322	100.0	100.8	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	86	4068375	100.0	98.7	
105 4-Chlorotoluene	126	10.206	10.200	0.006	95	1278707	100.0	105.3	
106 tert-Butylbenzene	134	10.480	10.474	0.006	92	961000	100.0	109.4	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	4149841	100.0	98.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	95	4943148	100.0	100.0	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	4286221	100.0	100.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	2337298	100.0	100.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	2382476	100.0	100.1	
115 n-Butylbenzene	91	11.210	11.210	0.000	95	3893665	100.0	101.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	2277520	100.0	99.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	83	279459	100.0	111.6	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	1741646	100.0	106.5	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	96	853596	100.0	109.2	
121 Naphthalene	128	12.877	12.877	0.000	98	4593666	100.0	102.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	1662277	100.0	110.3	
S 124 Xylenes, Total	1				0			209.6	
S 126 1,3-Dichloropropene, Total	1				0			222.0	
S 123 Total BTEX	1				0			511.1	
S 125 1,2-Dichloroethene, Total	1				0			205.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 50.00

Units: uL

GAS CORP mix_00287

Amount Added: 50.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D

Injection Date: 20-Jun-2018 16:34:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 7

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

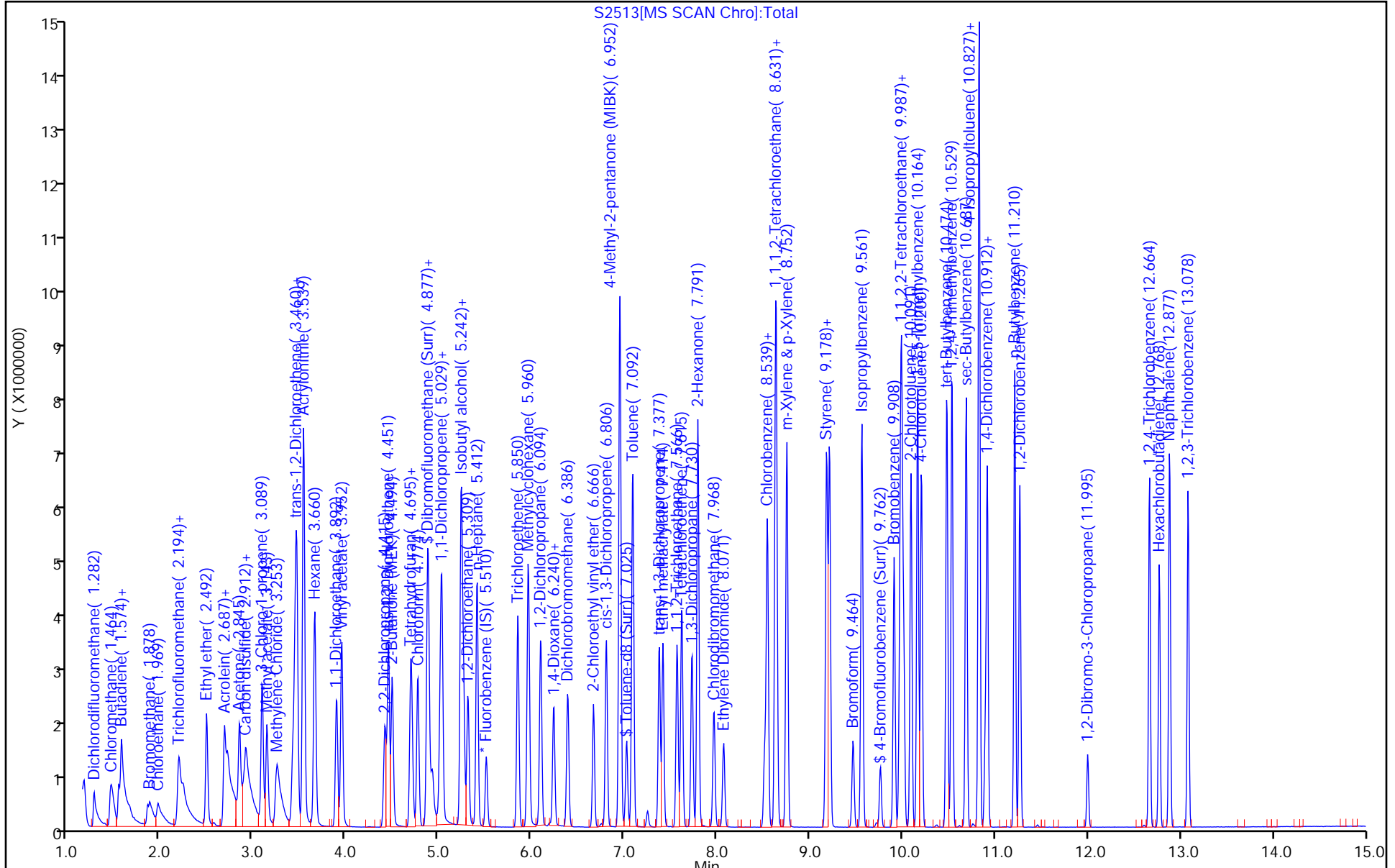
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

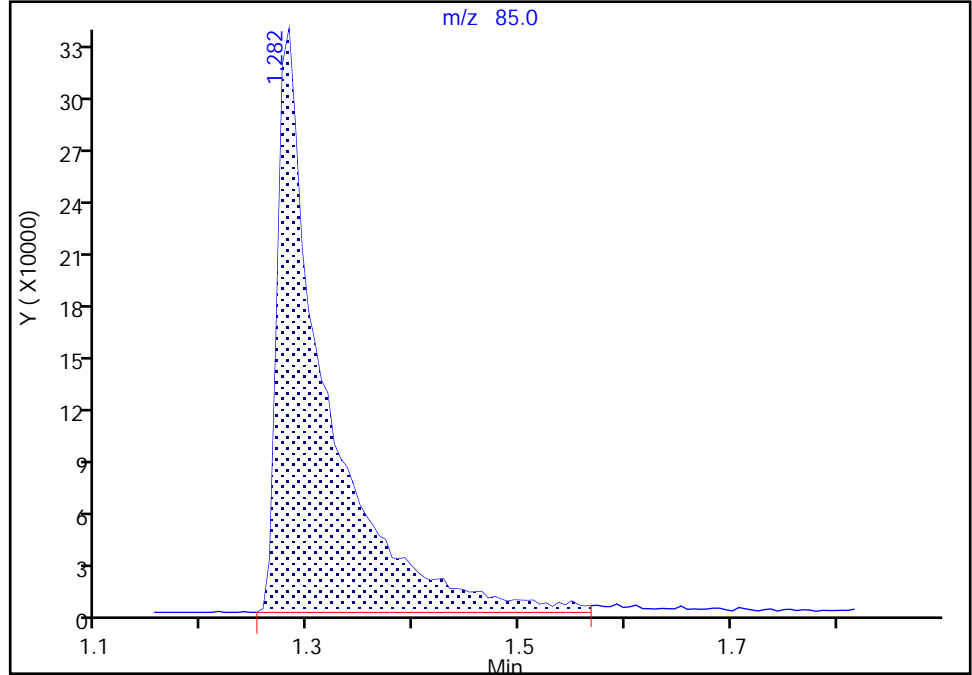
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Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

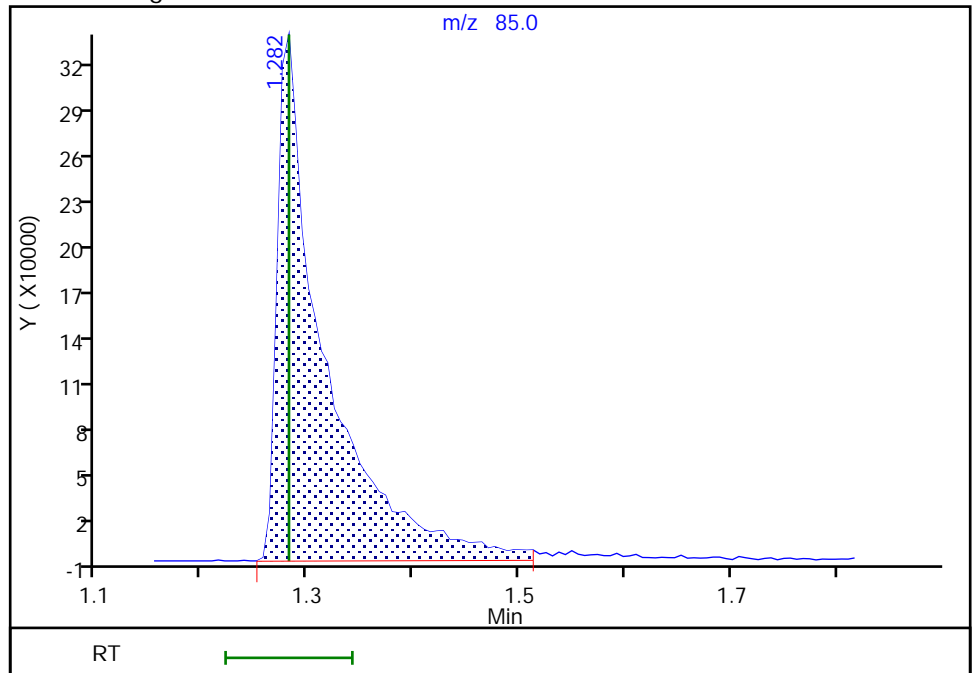
RT: 1.28
Area: 1058190
Amount: 97.253184
Amount Units: ug/L

Processing Integration Results



RT: 1.28
Area: 1042243
Amount: 106.0994
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:50:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

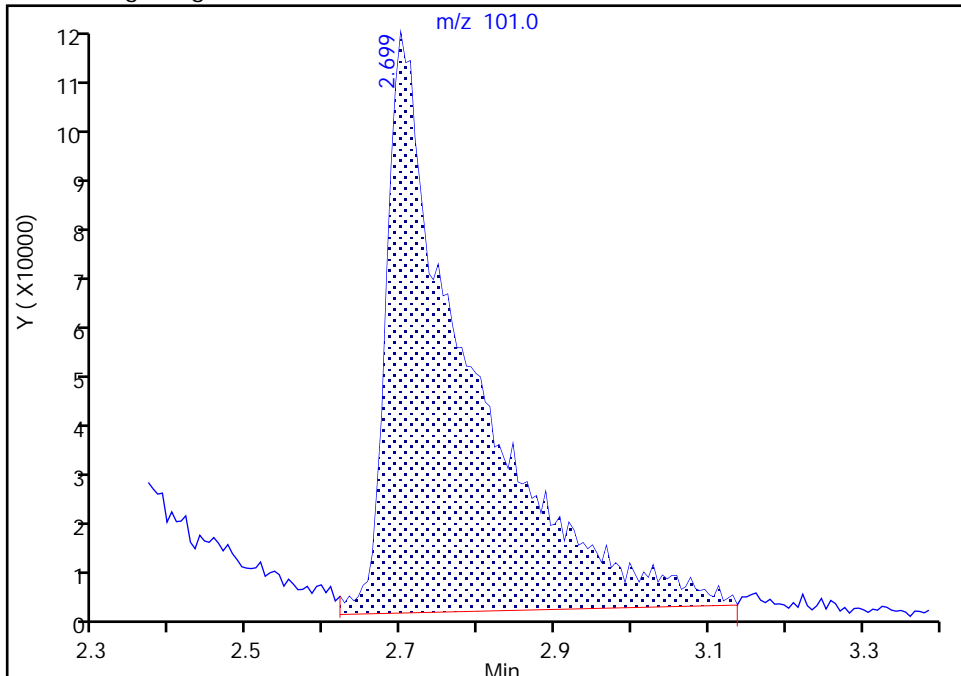
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Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

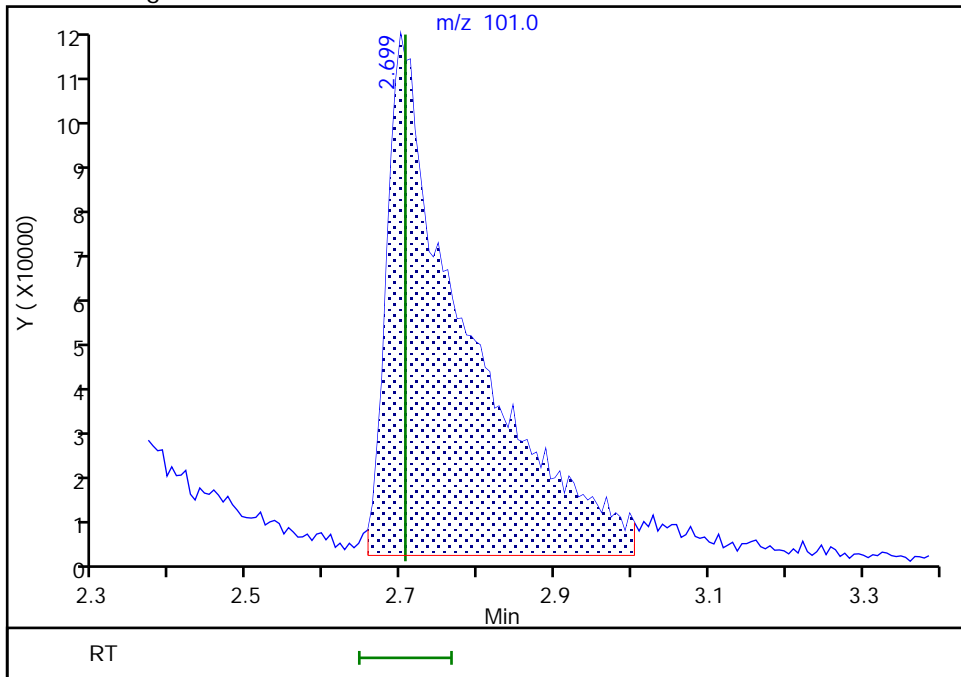
RT: 2.70
Area: 865473
Amount: 103.9221
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 822020
Amount: 101.8067
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:38:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 212 of 444

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421204/3 Calibration Date: 06/23/2018 10:20
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2642.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.204	1.003	0.1000	20.8	25.0	-16.7	50.0
Chloromethane	Ave	1.913	1.526	0.1000	19.9	25.0	-20.2*	20.0
Vinyl chloride	Ave	1.701	1.496	0.1000	22.0	25.0	-12.1	20.0
Butadiene	Ave	1.774	1.463		20.6	25.0	-17.5	20.0
Bromomethane	Ave	0.9114	0.7669	0.1000	21.0	25.0	-15.9	50.0
Chloroethane	Ave	1.029	0.9066	0.1000	22.0	25.0	-11.9	50.0
Dichlorofluoromethane	Ave	2.255	1.908		21.1	25.0	-15.4	20.0
Trichlorofluoromethane	Ave	1.612	1.463	0.1000	22.7	25.0	-9.2	20.0
Ethyl ether	Ave	1.434	1.344		23.4	25.0	-6.3	20.0
Acrolein	Ave	0.2746	0.2542		116	125	-7.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.031	0.1000	26.3	25.0	5.3	20.0
1,1-Dichloroethene	Ave	1.104	1.022	0.1000	23.1	25.0	-7.5	20.0
Acetone	Ave	0.4810	0.4866	0.1000	126	125	1.2	50.0
Iodomethane	Ave	1.615	1.658		25.7	25.0	2.7	20.0
Carbon disulfide	Ave	3.520	3.239	0.1000	23.0	25.0	-8.0	20.0
Allyl chloride	Ave	2.141	1.918		22.4	25.0	-10.4	20.0
Methyl acetate	Ave	1.263	1.113	0.1000	44.1	50.0	-11.8	50.0
Methylene Chloride	Lin1		1.235	0.1000	20.9	25.0	-16.5	20.0
2-Methyl-2-propanol	Ave	0.1630	0.1957		300	250	20.1	50.0
Methyl tert-butyl ether	Ave	4.138	3.843	0.1000	23.2	25.0	-7.1	20.0
trans-1,2-Dichloroethene	Ave	1.264	1.198	0.1000	23.7	25.0	-5.2	20.0
Acrylonitrile	Ave	0.6712	0.6478		241	250	-3.5	20.0
Hexane	Ave	2.330	2.336		25.1	25.0	0.2	20.0
1,1-Dichloroethane	Ave	2.662	2.450	0.2000	23.0	25.0	-8.0	20.0
Vinyl acetate	Ave	3.070	3.038		49.5	50.0	-1.0	20.0
2,2-Dichloropropane	Ave	1.475	1.516		25.7	25.0	2.8	20.0
cis-1,2-Dichloroethene	Ave	1.452	1.393	0.1000	24.0	25.0	-4.1	20.0
2-Butanone (MEK)	Ave	0.7386	0.7232	0.1000	122	125	-2.1	20.0
Chlorobromomethane	Ave	0.6939	0.6563		23.6	25.0	-5.4	20.0
Tetrahydrofuran	Ave	0.5075	0.4689		46.2	50.0	-7.6	20.0
Chloroform	Ave	2.323	2.115	0.2000	22.8	25.0	-9.0	20.0
1,1,1-Trichloroethane	Ave	1.731	1.711	0.1000	24.7	25.0	-1.2	20.0
Cyclohexane	Ave	2.329	2.437	0.1000	26.2	25.0	4.7	20.0
Carbon tetrachloride	Ave	1.451	1.501	0.1000	25.9	25.0	3.5	20.0
1,1-Dichloropropene	Ave	1.764	1.714		24.3	25.0	-2.9	20.0
Benzene	Ave	5.304	4.964	0.5000	23.4	25.0	-6.4	20.0
Isobutyl alcohol	Ave	0.0686	0.0745		679	625	8.6	50.0
1,2-Dichloroethane	Ave	2.143	1.969	0.1000	23.0	25.0	-8.1	20.0
n-Heptane	Ave	2.167	2.039		23.5	25.0	-5.9	20.0
Trichloroethene	Ave	1.368	1.284	0.2000	23.5	25.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421204/3 Calibration Date: 06/23/2018 10:20
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2642.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.084	2.205	0.1000	26.5	25.0	5.8	20.0
1,2-Dichloropropane	Ave	1.600	1.461	0.1000	22.8	25.0	-8.7	20.0
Dibromomethane	Ave	0.8353	0.8236	0.1000	24.6	25.0	-1.4	20.0
1,4-Dioxane	Lin1		0.0063		567	500	13.4	50.0
Bromodichloromethane	Ave	1.609	1.607	0.2000	25.0	25.0	-0.1	20.0
2-Chloroethyl vinyl ether	Ave	1.068	0.9913		23.2	25.0	-7.1	20.0
cis-1,3-Dichloropropene	Ave	2.023	1.934	0.2000	23.9	25.0	-4.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7981	0.7148	0.1000	112	125	-10.4	20.0
Toluene	Ave	1.662	1.628	0.4000	24.5	25.0	-2.1	20.0
trans-1,3-Dichloropropene	Ave	0.9155	0.9305	0.1000	25.4	25.0	1.6	20.0
Ethyl methacrylate	Ave	0.8975	0.8906		24.8	25.0	-0.8	20.0
1,1,2-Trichloroethane	Ave	0.5007	0.4854	0.1000	24.2	25.0	-3.0	20.0
Tetrachloroethene	Ave	0.7017	0.7162	0.2000	25.5	25.0	2.1	20.0
1,3-Dichloropropane	Ave	1.056	1.004		23.8	25.0	-4.9	20.0
2-Hexanone	Ave	0.5875	0.5271	0.1000	112	125	-10.3	20.0
Dibromochloromethane	Ave	0.5694	0.6006	0.1000	26.4	25.0	5.5	20.0
1,2-Dibromoethane	Ave	0.6308	0.6009		23.8	25.0	-4.8	20.0
Chlorobenzene	Ave	1.821	1.778	0.5000	24.4	25.0	-2.4	20.0
Ethylbenzene	Ave	2.995	2.921	0.1000	24.4	25.0	-2.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5890	0.6145		26.1	25.0	4.3	20.0
m,p-Xylene	Ave	1.218	1.152	0.1000	23.6	25.0	-5.4	20.0
o-Xylene	Ave	1.156	1.124	0.3000	24.3	25.0	-2.8	20.0
Styrene	Ave	1.985	1.988	0.3000	25.0	25.0	0.2	20.0
Bromoform	Ave	0.3637	0.4009	0.1000	27.6	25.0	10.2	50.0
Isopropylbenzene	Ave	3.152	3.293	0.1000	26.1	25.0	4.5	20.0
Bromobenzene	Ave	0.7974	0.8142		25.5	25.0	2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	0.8807	0.3000	25.7	25.0	2.8	20.0
N-Propylbenzene	Ave	3.654	3.797		26.0	25.0	3.9	20.0
1,2,3-Trichloropropane	Ave	0.2819	0.2915		25.8	25.0	3.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2948		24.2	25.0	-3.4	50.0
2-Chlorotoluene	Ave	0.7865	0.7931		25.2	25.0	0.8	20.0
1,3,5-Trimethylbenzene	Ave	2.734	2.805		25.6	25.0	2.6	20.0
4-Chlorotoluene	Ave	0.8059	0.8365		25.9	25.0	3.8	20.0
tert-Butylbenzene	Ave	0.5829	0.6204		26.6	25.0	6.4	20.0
1,2,4-Trimethylbenzene	Ave	2.793	2.886		25.8	25.0	3.3	20.0
sec-Butylbenzene	Ave	3.279	3.550		27.1	25.0	8.3	20.0
1,3-Dichlorobenzene	Ave	1.549	1.537	0.6000	24.8	25.0	-0.8	20.0
4-Isopropyltoluene	Ave	2.822	3.115		27.6	25.0	10.4	20.0
1,4-Dichlorobenzene	Ave	1.580	1.600	0.5000	25.3	25.0	1.3	20.0
n-Butylbenzene	Ave	2.545	2.806		27.6	25.0	10.3	20.0
1,2-Dichlorobenzene	Ave	1.525	1.501	0.4000	24.6	25.0	-1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421204/3 Calibration Date: 06/23/2018 10:20
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2642.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1662	0.1711	0.0500	25.7	25.0	2.9	50.0
1,2,4-Trichlorobenzene	Ave	1.085	1.119	0.2000	25.8	25.0	3.1	20.0
Hexachlorobutadiene	Ave	0.5186	0.5762		27.8	25.0	11.1	20.0
Naphthalene	Ave	2.965	3.082		26.0	25.0	4.0	20.0
1,2,3-Trichlorobenzene	Ave	1.000	1.050		26.2	25.0	5.0	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.179		24.6	25.0	-1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7832	0.7884		25.2	25.0	0.7	20.0
Toluene-d8 (Surr)	Ave	2.435	2.454		25.2	25.0	0.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7477	0.7354		24.6	25.0	-1.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 23-Jun-2018 10:20:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0072571-003
 Operator ID: RB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 10:53:29 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 10:53:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	200347	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	390439	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.894	0.000	52	349453	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	57	236288	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	157943	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	957979	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	287146	25.0	24.6	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	200869	25.0	20.8	
12 Chloromethane	50	1.470	1.470	0.000	99	305655	25.0	19.9	M
13 Vinyl chloride	62	1.543	1.543	0.000	92	299649	25.0	22.0	
151 Butadiene	54	1.574	1.574	0.000	86	293178	25.0	20.6	
14 Bromomethane	94	1.860	1.860	0.000	88	153643	25.0	21.0	M
15 Chloroethane	64	1.963	1.963	0.000	95	181627	25.0	22.0	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	76	293091	25.0	22.7	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	382198	25.0	21.1	
18 Ethyl ether	59	2.492	2.492	0.000	93	269179	25.0	23.4	
20 Acrolein	56	2.681	2.681	0.000	98	254635	125.0	115.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	0.000	50	206543	25.0	26.3	
22 1,1-Dichloroethene	96	2.723	2.723	0.000	89	204760	25.0	23.1	
23 Acetone	43	2.845	2.845	0.000	98	487457	125.0	126.5	
25 Iodomethane	142	2.894	2.894	0.000	96	332163	25.0	25.7	
26 Carbon disulfide	76	2.918	2.918	0.000	99	648830	25.0	23.0	
28 3-Chloro-1-propene	41	3.088	3.088	0.000	90	384364	25.0	22.4	
27 Methyl acetate	43	3.143	3.143	0.000	95	446050	50.0	44.1	
30 Methylene Chloride	84	3.247	3.247	0.000	95	247436	25.0	20.9	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	392104	250.0	300.2	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	769904	25.0	23.2	
34 trans-1,2-Dichloroethene	96	3.466	3.466	0.000	92	240077	25.0	23.7	
33 Acrylonitrile	53	3.539	3.539	0.000	99	1297849	250.0	241.3	
35 Hexane	57	3.660	3.660	0.000	87	467996	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	490821	25.0	23.0	
37 Vinyl acetate	43	3.946	3.946	0.000	97	1217309	50.0	49.5	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	92	303764	25.0	25.7	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	80	279125	25.0	24.0	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	724418	125.0	122.4	
48 Chlorobromomethane	128	4.695	4.695	0.000	95	131481	25.0	23.6	
49 Tetrahydrofuran	42	4.713	4.713	0.000	90	187870	50.0	46.2	
50 Chloroform	83	4.774	4.774	0.000	93	423645	25.0	22.8	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	92	342703	25.0	24.7	
52 Cyclohexane	56	4.883	4.883	0.000	90	488307	25.0	26.2	
55 Carbon tetrachloride	117	5.011	5.011	0.000	88	300703	25.0	25.9	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	343382	25.0	24.3	
57 Benzene	78	5.236	5.236	0.000	96	994456	25.0	23.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	96	373298	625.0	679.0	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	78	394419	25.0	23.0	
59 n-Heptane	43	5.406	5.406	0.000	90	408583	25.0	23.5	
62 Trichloroethene	95	5.850	5.850	0.000	96	257312	25.0	23.5	
64 Methylcyclohexane	83	5.966	5.966	0.000	91	441670	25.0	26.5	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	96	292731	25.0	22.8	
67 Dibromomethane	93	6.234	6.234	0.000	88	165008	25.0	24.6	
66 1,4-Dioxane	88	6.240	6.240	0.000	43	49136	500.0	567.1	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	322011	25.0	25.0	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	198612	25.0	23.2	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	387490	25.0	23.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	95	1395415	125.0	111.9	
74 Toluene	92	7.085	7.085	0.000	94	635455	25.0	24.5	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	94	363313	25.0	25.4	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	347707	25.0	24.8	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	189518	25.0	24.2	
81 Tetrachloroethene	166	7.615	7.615	0.000	88	279635	25.0	25.5	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	392083	25.0	23.8	
80 2-Hexanone	43	7.791	7.791	0.000	89	1029088	125.0	112.2	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	234484	25.0	26.4	
84 Ethylene Dibromide	107	8.071	8.071	0.000	99	234601	25.0	23.8	
87 Chlorobenzene	112	8.539	8.539	0.000	93	694202	25.0	24.4	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1140336	25.0	24.4	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	58	239915	25.0	26.1	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	449855	25.0	23.6	
91 o-Xylene	106	9.178	9.178	0.000	98	438723	25.0	24.3	
92 Styrene	104	9.209	9.209	0.000	94	776364	25.0	25.0	
95 Bromoform	173	9.470	9.470	0.000	97	156516	25.0	27.6	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	1150837	25.0	26.1	
101 Bromobenzene	156	9.908	9.908	0.000	96	284533	25.0	25.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	77	307773	25.0	25.7	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	1326994	25.0	26.0	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	65	101855	25.0	25.8	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.018	0.000	70	103007	25.0	24.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	277158	25.0	25.2	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	94	980365	25.0	25.6	
105 4-Chlorotoluene	126	10.200	10.200	0.000	88	292299	25.0	25.9	
106 tert-Butylbenzene	134	10.474	10.474	0.000	92	216784	25.0	26.6	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	40	1008385	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1240578	25.0	27.1	
111 1,3-Dichlorobenzene	146	10.821	10.821	0.000	71	537201	25.0	24.8	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1088427	25.0	27.6	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	94	559168	25.0	25.3	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	980473	25.0	27.6	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	524416	25.0	24.6	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	78	59779	25.0	25.7	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	390959	25.0	25.8	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	97	201336	25.0	27.8	
121 Naphthalene	128	12.877	12.877	0.000	97	1077122	25.0	26.0	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	367014	25.0	26.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D

Injection Date: 23-Jun-2018 10:20:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

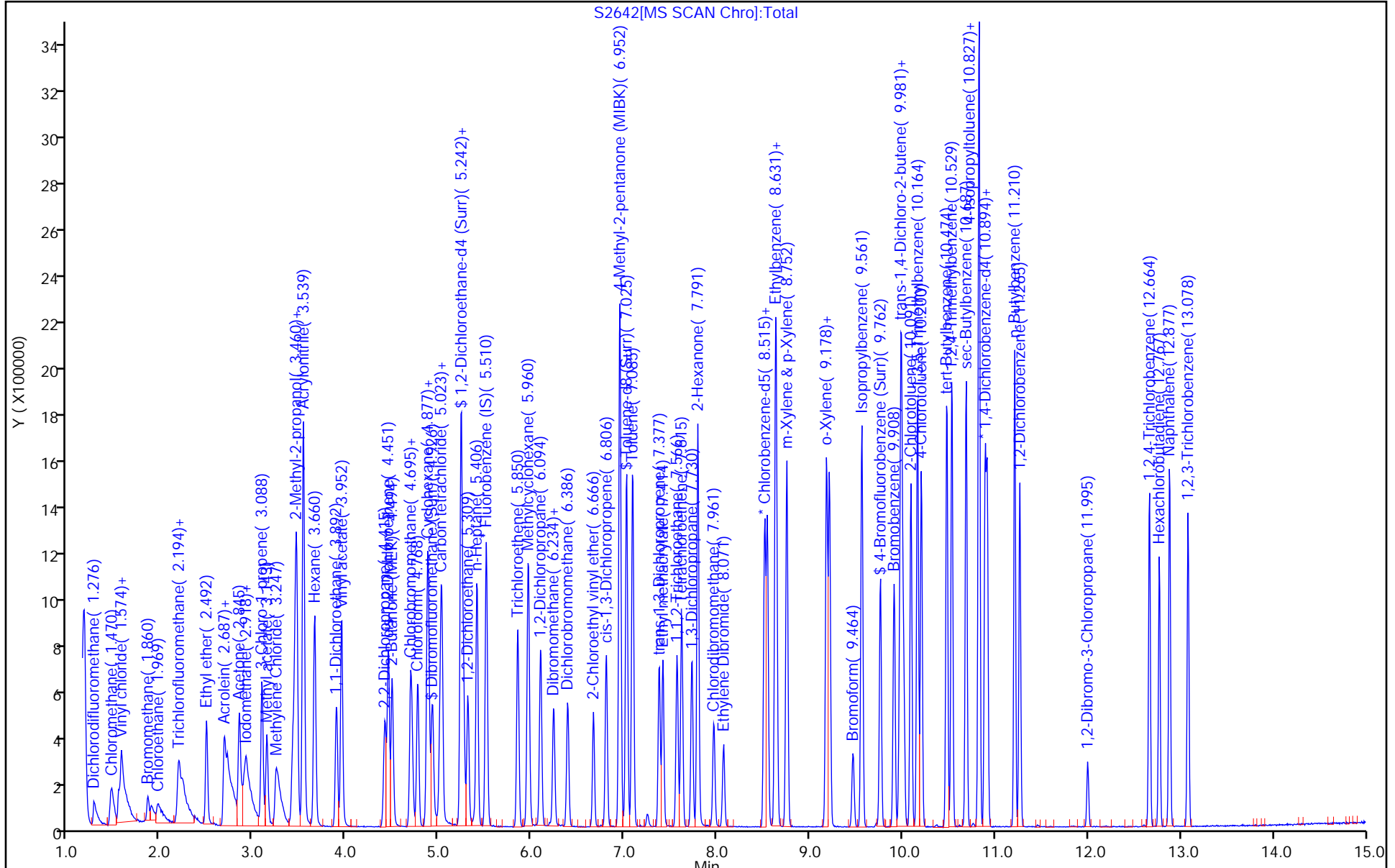
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

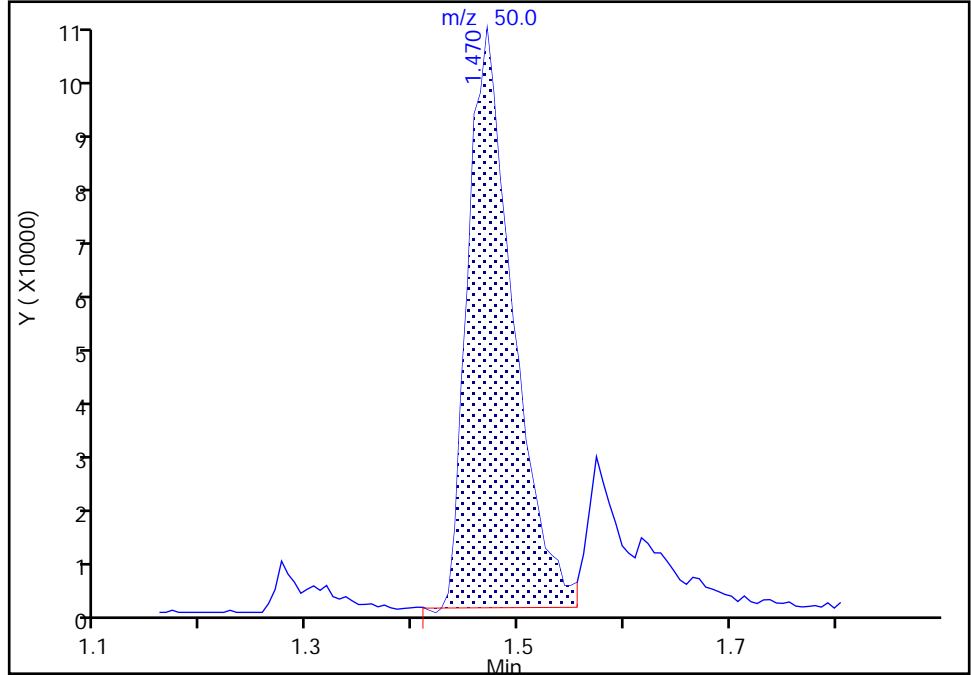
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D
Injection Date: 23-Jun-2018 10:20:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: RB ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

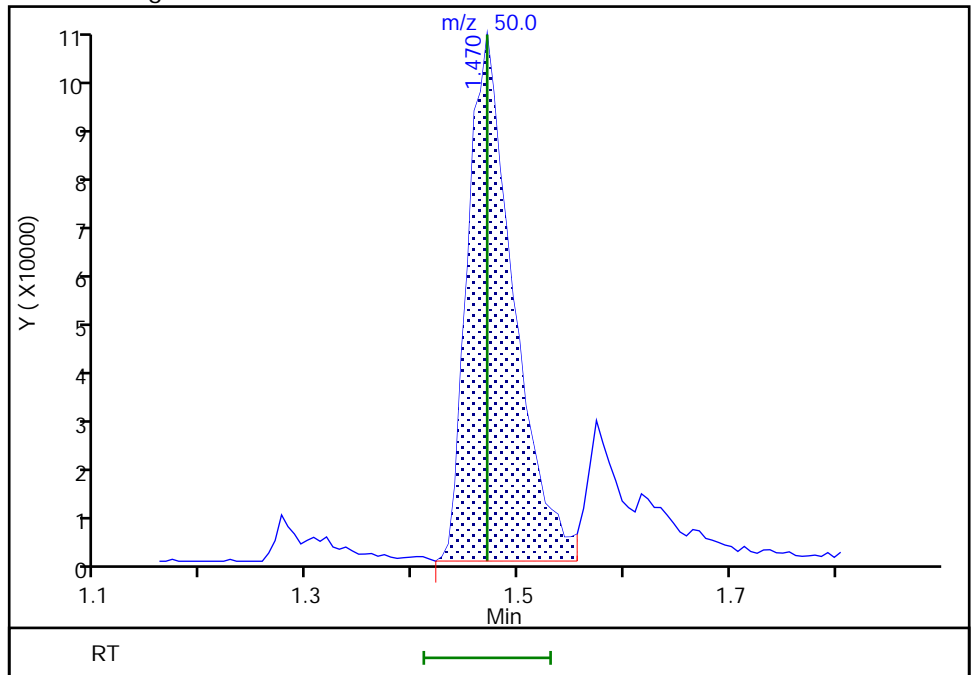
RT: 1.47
Area: 299028
Amount: 19.510111
Amount Units: ug/L

Processing Integration Results



RT: 1.47
Area: 305655
Amount: 19.942490
Amount Units: ug/L

Manual Integration Results



Reviewer: baroner, 23-Jun-2018 10:46:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 220 of 444

TestAmerica Buffalo

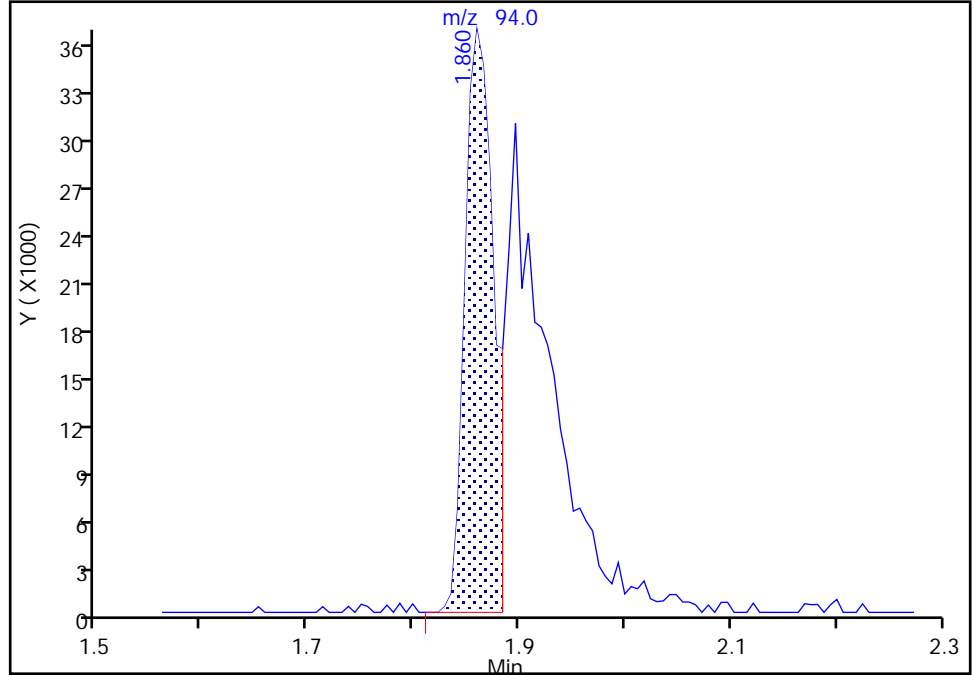
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D
Injection Date: 23-Jun-2018 10:20:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: RB ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

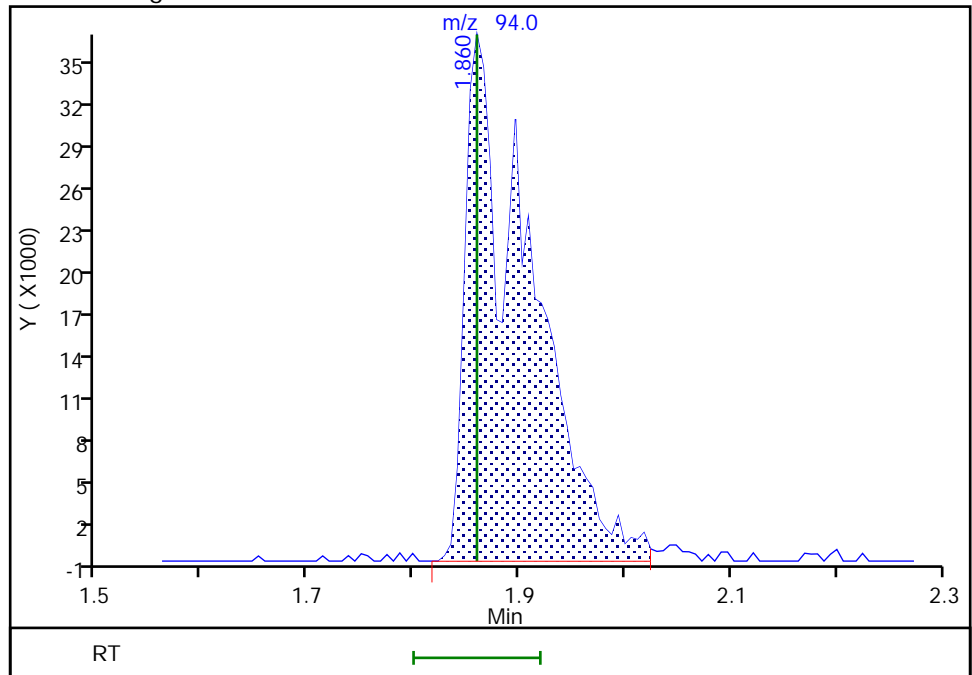
RT: 1.86
Area: 70249
Amount: 9.618328
Amount Units: ug/L

Processing Integration Results



RT: 1.86
Area: 153643
Amount: 21.036438
Amount Units: ug/L

Manual Integration Results



Reviewer: baroner, 23-Jun-2018 10:44:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 20-Jun-2018 12:54:30 ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0072482-003
 Operator ID: LH/ZV Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:32 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: HillL Date: 20-Jun-2018 13:13:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.844	3.844	0.000	0	365310	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

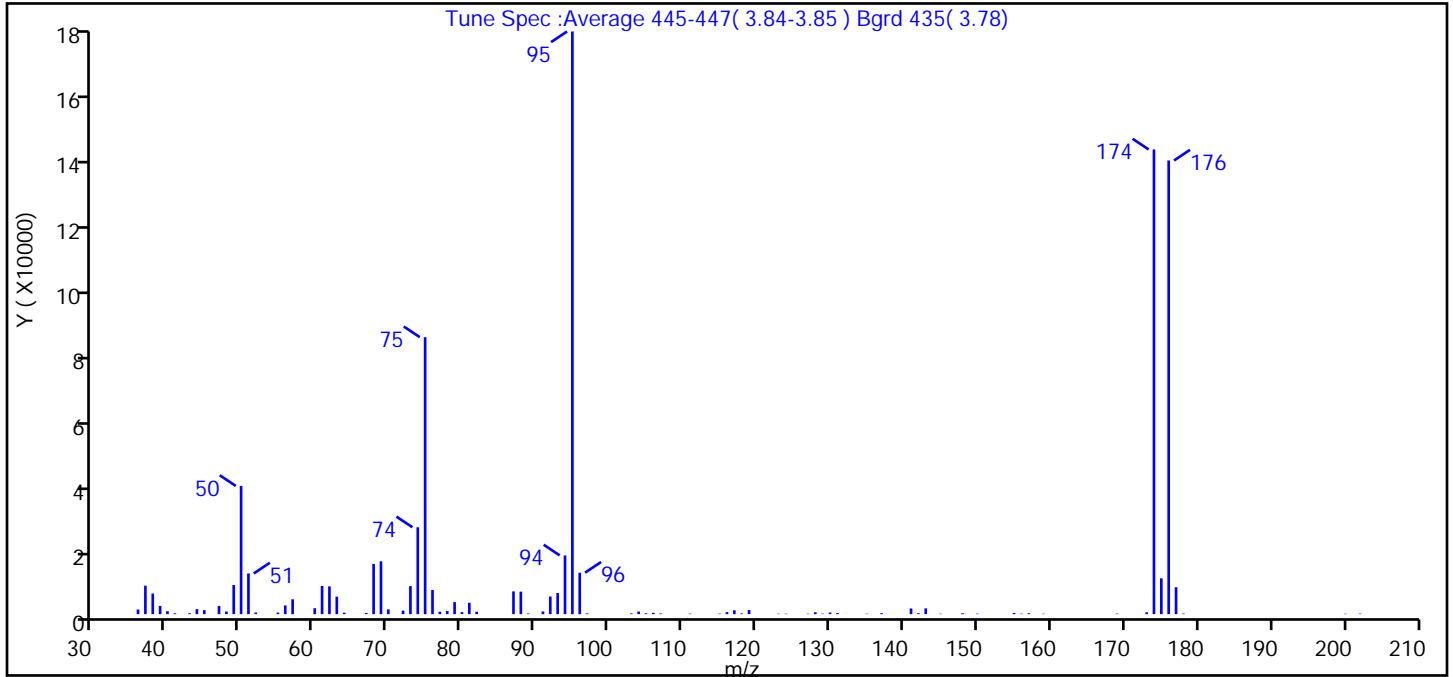
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
 Injection Date: 20-Jun-2018 12:54:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	77.9 (97.6)
177	5 to 9% of m/z 176	4.6 (5.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D\S-8260.rslt\spectra.d
Injection Date: 20-Jun-2018 12:54:30
Spectrum: Tune Spec :Average 445-447(3.84-3.85) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1407	64.00	431	94.00	17720	135.00	127
37.00	8584	67.00	332	95.00	175744	137.00	293
38.00	6219	68.00	15169	96.00	12510	141.00	1718
39.00	2493	69.00	15927	97.00	220	142.00	276
40.00	882	70.00	1443	103.00	214	143.00	1753
41.00	259	72.00	1061	104.00	774	145.00	120
43.00	272	73.00	8463	105.00	254	148.00	274
44.00	1512	74.00	26200	106.00	401	150.00	143
45.00	1201	75.00	83536	107.00	215	155.00	371
47.00	2483	76.00	7284	111.00	150	156.00	135
48.00	793	77.00	743	115.00	152	157.00	266
49.00	8783	78.00	943	116.00	614	159.00	122
50.00	38672	79.00	3636	117.00	1150	169.00	161
51.00	12273	80.00	618	118.00	217	173.00	560
52.00	492	81.00	3438	119.00	1234	174.00	140160
55.00	464	82.00	722	123.00	123	175.00	10816
56.00	2625	87.00	6872	124.00	134	176.00	136832
57.00	4479	88.00	6780	127.00	144	177.00	8108
60.00	1791	89.00	186	128.00	567	178.00	172
61.00	8484	91.00	806	129.00	141	200.00	119
62.00	8375	92.00	5315	130.00	491	202.00	159
63.00	5273	93.00	6372	131.00	333		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2641.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 23-Jun-2018 09:52:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0072571-002
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 10:04:43 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner Date: 23-Jun-2018 10:04:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.851	3.851	0.000	0	308496	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

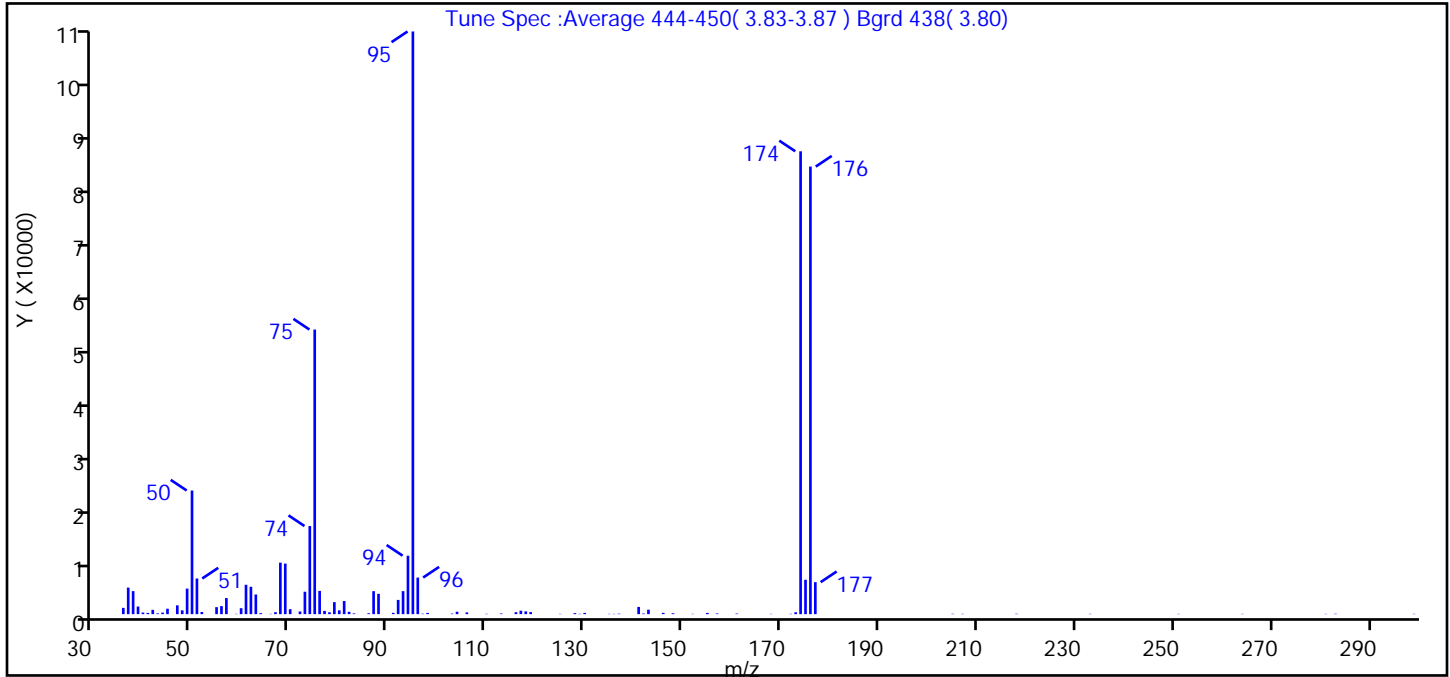
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2641.D
 Injection Date: 23-Jun-2018 09:52:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: RB ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.2
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.4
175	5 to 9% of m/z 174	5.9 (7.4)
176	Greater than 95% but less than 101% of m/z 174	76.8 (96.7)
177	5 to 9% of m/z 176	5.5 (7.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2641.D\S-8260.rslt\spectra.d
Injection Date: 23-Jun-2018 09:52:30
Spectrum: Tune Spec :Average 444-450(3.83-3.87) Bgrd 438(3.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1151	64.00	183	94.00	10746	146.00	246
37.00	4879	66.00	50	95.00	107128	148.00	164
38.00	4233	67.00	353	96.00	6727	152.00	56
39.00	1403	68.00	9469	97.00	79	155.00	228
40.00	296	69.00	9297	98.00	230	157.00	116
41.00	233	70.00	912	103.00	98	161.00	107
42.00	792	72.00	486	104.00	448	168.00	50
43.00	141	73.00	4122	106.00	317	172.00	63
44.00	280	74.00	16200	110.00	63	173.00	340
45.00	1001	75.00	52328	113.00	115	174.00	85096
47.00	1620	76.00	4277	116.00	360	175.00	6321
48.00	701	77.00	599	117.00	635	176.00	82288
49.00	4699	78.00	344	118.00	506	177.00	5882
50.00	22728	79.00	2213	119.00	378	205.00	73
51.00	6556	80.00	699	125.00	53	207.00	62
52.00	390	81.00	2417	128.00	187	218.00	75
55.00	1289	82.00	433	129.00	55	233.00	61
56.00	1481	83.00	135	130.00	231	251.00	52
57.00	2956	86.00	160	135.00	54	264.00	55
59.00	54	87.00	4224	136.00	53	281.00	51
60.00	1092	88.00	3738	137.00	89	283.00	77
61.00	5400	91.00	241	141.00	1326	299.00	59
62.00	5029	92.00	2618	142.00	118		
63.00	3613	93.00	4227	143.00	823		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421204/7
 Matrix: Water Lab File ID: S2646.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421204/7
 Matrix: Water Lab File ID: S2646.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421204/7
 Matrix: Water Lab File ID: S2646.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2646.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Jun-2018 11:54:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0072571-007
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 12:13:40 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 12:13:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	349725	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.515	8.509	0.006	87	714901	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	671304	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.932	-0.006	59	445393	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	288810	25.0	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.030	0.001	94	1801864	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.769	0.000	88	537786	25.0	25.2	
10 Dichlorodifluoromethane	85		1.282					ND	
11 Chlorodifluoromethane	51		1.306					ND	
12 Chloromethane	50		1.470					ND	
13 Vinyl chloride	62		1.543					ND	
151 Butadiene	54		1.574					ND	
15 Chloroethane	64		1.963					ND	
17 Trichlorofluoromethane	101		2.194					ND	
18 Ethyl ether	59		2.492					ND	
148 Ethanol	45		2.523					ND	U
19 Propene oxide	58		2.584					ND	
20 Acrolein	56		2.681					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.693					ND	
22 1,1-Dichloroethene	96		2.723					ND	
23 Acetone	43		2.845					ND	
25 Iodomethane	142		2.894					ND	
26 Carbon disulfide	76		2.918					ND	
24 Isopropyl alcohol	45		3.040					ND	
28 3-Chloro-1-propene	41		3.088					ND	
27 Methyl acetate	43		3.143					ND	
29 Acetonitrile	40		3.161					ND	
31 2-Methyl-2-propanol	59		3.423					ND	
32 Methyl tert-butyl ether	73		3.454					ND	
34 trans-1,2-Dichloroethene	96		3.466					ND	
33 Acrylonitrile	53		3.539					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
35 Hexane	57		3.660					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.892					ND	
36 Isopropyl ether	45		3.904					ND	
40 2-Chloro-1,3-butadiene	53		3.946					ND	
37 Vinyl acetate	43		3.946					ND	
38 1,1-Dimethoxyethane	75		3.983					ND	
41 Tert-butyl ethyl ether	59		4.244					ND	
44 2,2-Dichloropropane	77		4.415					ND	
45 cis-1,2-Dichloroethene	96		4.457					ND	
43 2-Butanone (MEK)	43		4.494					ND	
46 Propionitrile	54		4.609					ND	
48 Chlorobromomethane	128		4.695					ND	
47 Methacrylonitrile	41		4.713					ND	
49 Tetrahydrofuran	42		4.713					ND	
50 Chloroform	83		4.774					ND	
51 1,1,1-Trichloroethane	97		4.877					ND	
52 Cyclohexane	56		4.883					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		5.011					ND	
54 1,1-Dichloropropene	75		5.029					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.224					ND	
57 Benzene	78		5.236					ND	
53 Isobutyl alcohol	43		5.266					ND	
58 1,2-Dichloroethane	62		5.309					ND	
56 Tert-amyl methyl ether	73		5.315					ND	
147 t-Amyl alcohol	59		5.315					ND	
59 n-Heptane	43		5.406					ND	
1 1,4-Difluorobenzene	114		5.619					ND	
62 Trichloroethene	95		5.850					ND	
60 n-Butanol	56		5.887					ND	
64 Methylcyclohexane	83		5.966					ND	
142 Ethyl acrylate	55		5.978					ND	
65 1,2-Dichloropropane	63		6.094					ND	
63 Methyl methacrylate	41		6.191					ND	
67 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.240					ND	
68 Dichlorobromomethane	83		6.386					ND	
70 2-Nitropropane	43		6.647					ND	
69 2-Chloroethyl vinyl ether	63		6.666					ND	
71 Epichlorohydrin	57		6.763					ND	
72 cis-1,3-Dichloropropene	75		6.806					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952					ND	
74 Toluene	92		7.085					ND	
76 2-Methylthiophene	97		7.225					ND	
77 trans-1,3-Dichloropropene	75		7.377					ND	
78 3-Methylthiophene	97		7.396					ND	
75 Ethyl methacrylate	69		7.414					ND	
79 1,1,2-Trichloroethane	83		7.566					ND	
81 Tetrachloroethene	166		7.615					ND	
82 1,3-Dichloropropane	76		7.730					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43		7.791					ND	
155 n-Butyl acetate	43		7.894					ND	
83 Chlorodibromomethane	129		7.961					ND	
84 Ethylene Dibromide	107		8.071					ND	
146 1-Chlorohexane	55		8.485					ND	U
85 3-Chlorobenzotrifluoride	180		8.509					ND	
87 Chlorobenzene	112		8.539					ND	
86 4-Chlorobenzotrifluoride	180		8.570					ND	
88 Ethylbenzene	91		8.631					ND	
89 1,1,1,2-Tetrachloroethane	131		8.643					ND	
90 m-Xylene & p-Xylene	106		8.752					ND	
91 o-Xylene	106		9.178					ND	
92 Styrene	104		9.209					ND	
95 Bromoform	173		9.470					ND	
93 2-Chlorobenzotrifluoride	180		9.488					ND	
94 Isopropylbenzene	105		9.561					ND	
96 Cyclohexanone	55		9.738					ND	
101 Bromobenzene	156		9.908					ND	
97 1,1,2,2-Tetrachloroethane	83		9.969					ND	
99 N-Propylbenzene	91		9.987					ND	
100 1,2,3-Trichloropropane	110		9.999					ND	
98 trans-1,4-Dichloro-2-buten	53		10.018					ND	
103 2-Chlorotoluene	126		10.091					ND	
104 3-Chlorotoluene	126		10.158					ND	
102 1,3,5-Trimethylbenzene	105		10.164					ND	
105 4-Chlorotoluene	126		10.200					ND	
106 tert-Butylbenzene	134		10.474					ND	
107 1,2,4-Trimethylbenzene	105		10.529					ND	
108 Pentachloroethane	167		10.541					ND	
109 sec-Butylbenzene	105		10.687					ND	
111 1,3-Dichlorobenzene	146		10.821					ND	
110 4-Isopropyltoluene	119		10.827					ND	
114 Dicyclopentadiene	66		10.888					ND	
113 1,4-Dichlorobenzene	146		10.912					ND	
112 1,2,3-Trimethylbenzene	105		10.936					ND	
150 Benzyl chloride	126		11.058					ND	
116 1,2-Dichlorobenzene	146		11.265					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.123					ND	
119 1,2,4-Trichlorobenzene	180		12.664					ND	
120 Hexachlorobutadiene	225		12.767					ND	
121 Naphthalene	128		12.877					ND	
122 1,2,3-Trichlorobenzene	180		13.078					ND	
149 2-Methylnaphthalene	142		13.789					ND	
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2646.D

Injection Date: 23-Jun-2018 11:54:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

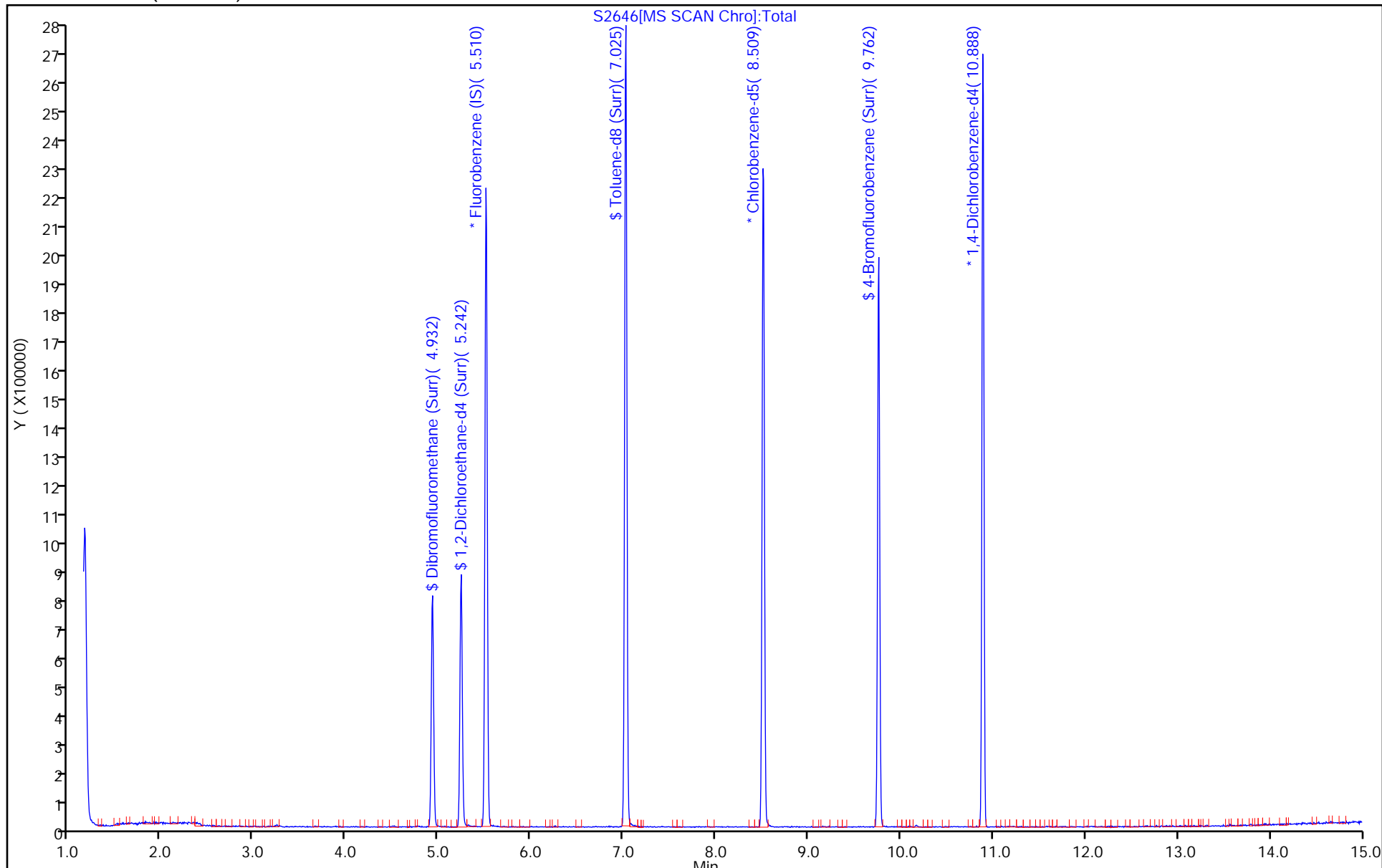
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-421204/5
 Matrix: Water Lab File ID: S2644.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.5		1.0	0.31
75-34-3	1,1-Dichloroethane	24.5		1.0	0.38
75-35-4	1,1-Dichloroethene	25.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.2		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.5		1.0	0.79
107-06-2	1,2-Dichloroethane	23.9		1.0	0.21
78-87-5	1,2-Dichloropropane	23.9		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.9		1.0	0.84
78-93-3	2-Butanone (MEK)	118		10	1.3
591-78-6	2-Hexanone	111		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.1
67-64-1	Acetone	116		10	3.0
71-43-2	Benzene	24.9		1.0	0.41
75-27-4	Bromodichloromethane	25.5		1.0	0.39
75-25-2	Bromoform	25.9		1.0	0.26
74-83-9	Bromomethane	22.3		1.0	0.69
75-15-0	Carbon disulfide	24.2		1.0	0.19
56-23-5	Carbon tetrachloride	28.3		1.0	0.27
108-90-7	Chlorobenzene	25.1		1.0	0.75
124-48-1	Dibromochloromethane	26.9		1.0	0.32
75-00-3	Chloroethane	22.9		1.0	0.32
67-66-3	Chloroform	24.2		1.0	0.34
74-87-3	Chloromethane	20.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.9		1.0	0.36
110-82-7	Cyclohexane	27.7		1.0	0.18
75-71-8	Dichlorodifluoromethane	20.4		1.0	0.68
100-41-4	Ethylbenzene	25.9		1.0	0.74
106-93-4	1,2-Dibromoethane	23.2		1.0	0.73
98-82-8	Isopropylbenzene	26.5		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-421204/5
 Matrix: Water Lab File ID: S2644.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	43.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	27.4		1.0	0.16
75-09-2	Methylene Chloride	22.2		1.0	0.44
100-42-5	Styrene	25.1		1.0	0.73
127-18-4	Tetrachloroethene	25.7		1.0	0.36
108-88-3	Toluene	25.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.3		1.0	0.37
79-01-6	Trichloroethene	25.3		1.0	0.46
75-69-4	Trichlorofluoromethane	22.8		1.0	0.88
75-01-4	Vinyl chloride	22.4		1.0	0.90
1330-20-7	Xylenes, Total	49.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2644.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Jun-2018 11:07:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0072571-005
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 11:25:43 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 11:25:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	195959	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	388813	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	55	353233	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	58	237654	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	150692	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	91	960531	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	291874	25.0	25.1	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	192924	25.0	20.4	
12 Chloromethane	50	1.470	1.470	0.000	99	313952	25.0	20.9	
13 Vinyl chloride	62	1.549	1.543	0.006	72	298952	25.0	22.4	
151 Butadiene	54	1.580	1.574	0.006	84	310211	25.0	22.3	
14 Bromomethane	94	1.884	1.860	0.024	85	159442	25.0	22.3	
15 Chloroethane	64	1.975	1.963	0.012	89	184824	25.0	22.9	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	91	288117	25.0	22.8	
16 Dichlorofluoromethane	67	2.200	2.194	0.006	96	389168	25.0	22.0	
18 Ethyl ether	59	2.492	2.492	0.000	92	265330	25.0	23.6	
20 Acrolein	56	2.687	2.681	0.006	98	235781	125.0	109.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.693	0.012	69	179832	25.0	23.5	
22 1,1-Dichloroethene	96	2.724	2.723	0.001	94	222016	25.0	25.6	
23 Acetone	43	2.851	2.845	0.006	99	436665	125.0	115.8	
25 Iodomethane	142	2.900	2.894	0.006	96	333240	25.0	26.3	
26 Carbon disulfide	76	2.924	2.918	0.006	97	667201	25.0	24.2	
28 3-Chloro-1-propene	41	3.095	3.088	0.007	88	401607	25.0	23.9	
27 Methyl acetate	43	3.143	3.143	0.000	95	426960	50.0	43.1	
30 Methylene Chloride	84	3.259	3.247	0.012	92	256662	25.0	22.2	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	359942	250.0	281.8	
32 Methyl tert-butyl ether	73	3.448	3.454	-0.006	92	763226	25.0	23.5	
34 trans-1,2-Dichloroethene	96	3.466	3.466	0.000	93	250421	25.0	25.3	
33 Acrylonitrile	53	3.539	3.539	0.000	99	1263464	250.0	240.2	
35 Hexane	57	3.660	3.660	0.000	88	478284	25.0	26.2	
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	511226	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.952	3.946	0.006	97	1158952	50.0	48.2	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	90	313925	25.0	27.1	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	85	288038	25.0	25.3	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	682895	125.0	118.0	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	134044	25.0	24.6	
49 Tetrahydrofuran	42	4.713	4.713	0.000	87	185057	50.0	46.5	
50 Chloroform	83	4.774	4.774	0.000	92	441029	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	346819	25.0	25.6	
52 Cyclohexane	56	4.883	4.883	0.000	89	506151	25.0	27.7	
55 Carbon tetrachloride	117	5.017	5.011	0.006	87	321628	25.0	28.3	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	95	346754	25.0	25.1	
57 Benzene	78	5.236	5.236	0.000	96	1034390	25.0	24.9	
53 Isobutyl alcohol	43	5.267	5.266	0.001	95	350912	625.0	652.6	
58 1,2-Dichloroethane	62	5.315	5.309	0.006	79	400965	25.0	23.9	
59 n-Heptane	43	5.406	5.406	0.000	91	428135	25.0	25.2	
62 Trichloroethene	95	5.851	5.850	0.001	97	271026	25.0	25.3	
64 Methylcyclohexane	83	5.960	5.966	-0.006	93	447577	25.0	27.4	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	299526	25.0	23.9	
67 Dibromomethane	93	6.234	6.234	0.000	91	160396	25.0	24.5	
66 1,4-Dioxane	88	6.234	6.240	-0.006	40	46425	500.0	538.7	
68 Dichlorobromomethane	83	6.392	6.386	0.006	98	321261	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	199566	25.0	23.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	394186	25.0	24.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1352142	125.0	108.9	
74 Toluene	92	7.086	7.086	0.001	94	652905	25.0	25.3	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.001	94	360136	25.0	25.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	326758	25.0	23.4	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	189413	25.0	24.3	
81 Tetrachloroethene	166	7.621	7.615	0.006	87	279955	25.0	25.7	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	93	396781	25.0	24.2	
80 2-Hexanone	43	7.791	7.791	0.000	90	1010740	125.0	110.6	
83 Chlorodibromomethane	129	7.962	7.962	0.001	90	238510	25.0	26.9	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	98	227577	25.0	23.2	
87 Chlorobenzene	112	8.539	8.540	0.000	94	711111	25.0	25.1	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1207313	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	239447	25.0	26.1	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	466119	25.0	24.6	
91 o-Xylene	106	9.178	9.178	0.000	97	440835	25.0	24.5	
92 Styrene	104	9.209	9.209	0.000	94	774949	25.0	25.1	
95 Bromoform	173	9.464	9.470	-0.006	94	146461	25.0	25.9	
94 Isopropylbenzene	105	9.562	9.562	0.001	96	1177972	25.0	26.5	
101 Bromobenzene	156	9.908	9.908	0.000	94	291161	25.0	25.8	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	68	286244	25.0	23.7	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	1395555	25.0	27.0	
100 1,2,3-Trichloropropane	110	10.000	10.000	0.001	69	95527	25.0	24.0	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.018	-0.006	81	103094	25.0	23.9	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	278452	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	86	1003006	25.0	26.0	
105 4-Chlorotoluene	126	10.200	10.200	0.000	81	293380	25.0	25.8	
106 tert-Butylbenzene	134	10.480	10.474	0.006	92	226297	25.0	27.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	72	1029729	25.0	26.1	
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	1276616	25.0	27.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.827	10.821	0.006	71	557925	25.0	25.5	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1092361	25.0	27.4	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	555001	25.0	24.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1005498	25.0	28.0	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	91	528881	25.0	24.5	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	70	56740	25.0	24.2	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	403328	25.0	26.3	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	97	201532	25.0	27.5	
121 Naphthalene	128	12.877	12.877	0.000	97	1031976	25.0	24.6	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	93	373532	25.0	26.4	

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2644.D

Injection Date: 23-Jun-2018 11:07:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

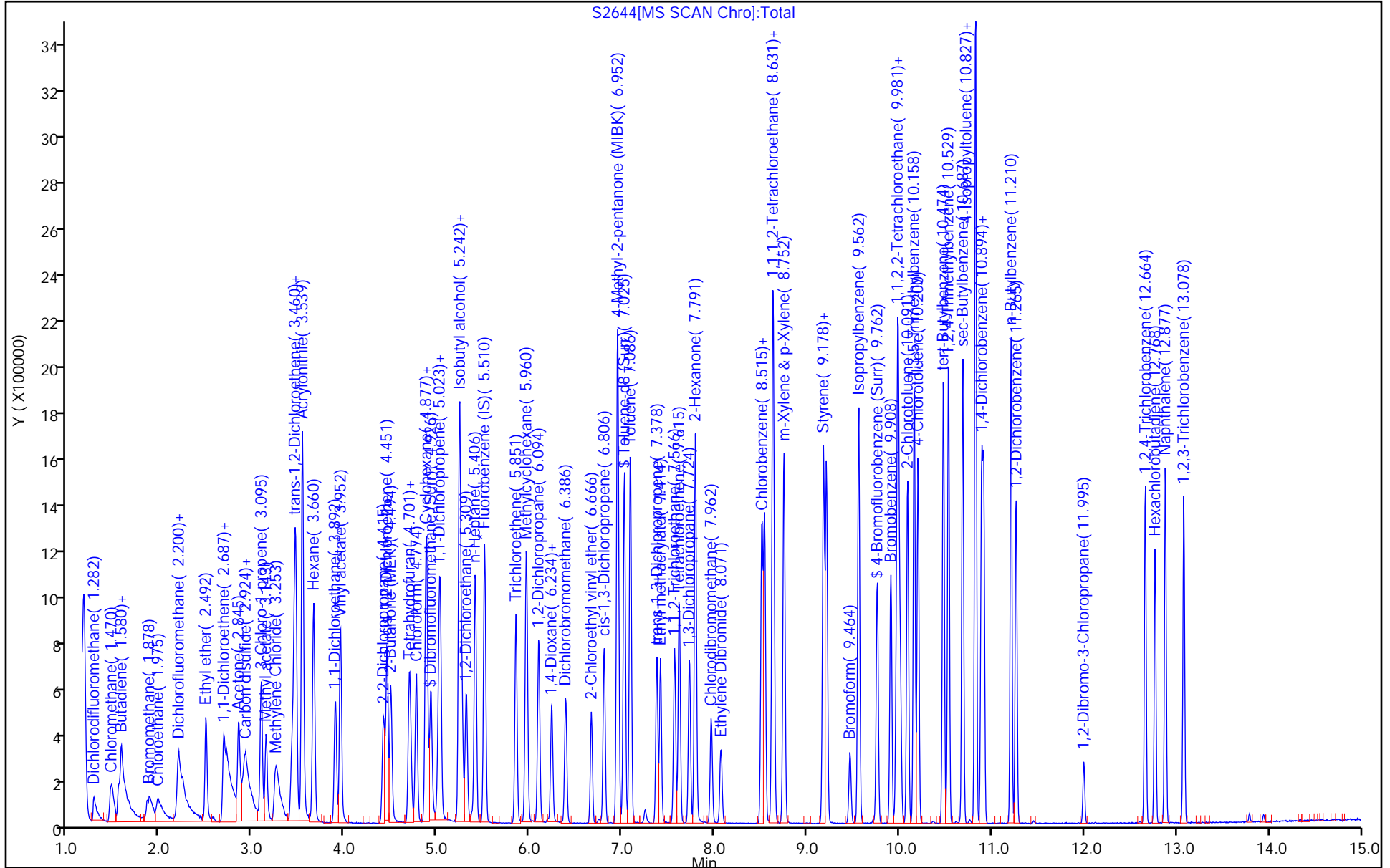
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D MS Lab Sample ID: 480-137527-2 MS
 Matrix: Water Lab File ID: S2665.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 19:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	201		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	127		5.0	1.1
79-00-5	1,1,2-Trichloroethane	131		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	156		5.0	1.6
75-34-3	1,1-Dichloroethane	290		5.0	1.9
75-35-4	1,1-Dichloroethene	147		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	131		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	133		5.0	2.0
95-50-1	1,2-Dichlorobenzene	124		5.0	4.0
107-06-2	1,2-Dichloroethane	127		5.0	1.1
78-87-5	1,2-Dichloropropane	128		5.0	3.6
541-73-1	1,3-Dichlorobenzene	125		5.0	3.9
106-46-7	1,4-Dichlorobenzene	129		5.0	4.2
78-93-3	2-Butanone (MEK)	667		50	6.6
591-78-6	2-Hexanone	585		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	590		25	11
67-64-1	Acetone	650		50	15
71-43-2	Benzene	138		5.0	2.1
75-27-4	Bromodichloromethane	142		5.0	2.0
75-25-2	Bromoform	141		5.0	1.3
74-83-9	Bromomethane	118		5.0	3.5
75-15-0	Carbon disulfide	129		5.0	0.95
56-23-5	Carbon tetrachloride	149		5.0	1.4
108-90-7	Chlorobenzene	129		5.0	3.8
124-48-1	Dibromochloromethane	140		5.0	1.6
75-00-3	Chloroethane	147		5.0	1.6
67-66-3	Chloroform	127		5.0	1.7
74-87-3	Chloromethane	106		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	187		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	134		5.0	1.8
110-82-7	Cyclohexane	145		5.0	0.90
75-71-8	Dichlorodifluoromethane	106		5.0	3.4
100-41-4	Ethylbenzene	134		5.0	3.7
106-93-4	1,2-Dibromoethane	125		5.0	3.7
98-82-8	Isopropylbenzene	132		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D MS Lab Sample ID: 480-137527-2 MS
 Matrix: Water Lab File ID: S2665.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 19:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	240		13	6.5
1634-04-4	Methyl tert-butyl ether	132		5.0	0.80
108-87-2	Methylcyclohexane	147		5.0	0.80
75-09-2	Methylene Chloride	119		5.0	2.2
100-42-5	Styrene	131		5.0	3.7
127-18-4	Tetrachloroethene	130		5.0	1.8
108-88-3	Toluene	133		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	138		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	127		5.0	1.9
79-01-6	Trichloroethene	142		5.0	2.3
75-69-4	Trichlorofluoromethane	130		5.0	4.4
75-01-4	Vinyl chloride	133		5.0	4.5
1330-20-7	Xylenes, Total	259		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2665.D
 Lims ID: 480-137527-B-2 MS
 Client ID: ML-7-D
 Sample Type: MS
 Inject. Date: 23-Jun-2018 19:36:30 ALS Bottle#: 26 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137527-b-2 ms
 Misc. Info.: 480-0072571-023
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:08:20 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk

Date: 24-Jun-2018 09:08:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	179420	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	369738	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	55	351550	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	56	225361	25.0	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	147296	25.0	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	91	925226	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	279266	25.0	25.3	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	183260	25.0	21.2	
12 Chloromethane	50	1.470	1.470	0.000	98	291270	25.0	21.2	
13 Vinyl chloride	62	1.549	1.543	0.006	93	325803	25.0	26.7	
14 Bromomethane	94	1.872	1.860	0.012	87	154090	25.0	23.6	
15 Chloroethane	64	1.975	1.963	0.012	95	217475	25.0	29.4	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	84	300639	25.0	26.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.012	71	220194	25.0	31.3	
22 1,1-Dichloroethene	96	2.730	2.723	0.007	97	232253	25.0	29.3	
23 Acetone	43	2.851	2.851	0.006	99	448559	125.0	129.9	
26 Carbon disulfide	76	2.918	2.918	0.000	97	651395	25.0	25.8	
27 Methyl acetate	43	3.143	3.143	0.000	94	435105	50.0	48.0	
30 Methylene Chloride	84	3.259	3.247	0.012	97	249662	25.0	23.7	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	92	782287	25.0	26.3	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	93	249458	25.0	27.5	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	97	1109946	25.0	58.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	80	390256	25.0	37.4	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	706724	125.0	133.3	
50 Chloroform	83	4.774	4.774	0.000	93	424515	25.0	25.5	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	94	499804	25.0	40.2	
52 Cyclohexane	56	4.883	4.883	0.000	81	483068	25.0	28.9	
55 Carbon tetrachloride	117	5.017	5.011	0.006	88	310934	25.0	29.9	
57 Benzene	78	5.242	5.236	0.006	97	1051390	25.0	27.6	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	94	389898	25.0	25.4	
62 Trichloroethene	95	5.850	5.850	0.000	97	279368	25.0	28.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.966	5.966	0.000	93	441060	25.0	29.5	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	292975	25.0	25.5	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	328627	25.0	28.5	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	91	388207	25.0	26.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1392808	125.0	118.0	
74 Toluene	92	7.091	7.086	0.006	93	653715	25.0	26.6	
77 trans-1,3-Dichloropropene	75	7.371	7.377	-0.006	96	345244	25.0	25.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	92	194251	25.0	26.2	
81 Tetrachloroethene	166	7.621	7.615	0.006	85	269372	25.0	26.0	
80 2-Hexanone	43	7.791	7.791	0.000	89	1016832	125.0	117.0	
83 Chlorodibromomethane	129	7.968	7.961	0.007	89	235212	25.0	27.9	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	232339	25.0	24.9	
87 Chlorobenzene	112	8.539	8.540	0.000	92	696979	25.0	25.9	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1190681	25.0	26.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	462865		25.7	
91 o-Xylene	106	9.178	9.178	0.000	98	448874		26.2	
92 Styrene	104	9.209	9.209	0.000	93	766694	25.0	26.1	
95 Bromoform	173	9.464	9.470	-0.006	95	151395	25.0	28.1	
94 Isopropylbenzene	105	9.561	9.567	0.000	95	1173198	25.0	26.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	77	306476	25.0	25.4	
111 1,3-Dichlorobenzene	146	10.827	10.821	0.006	70	546442	25.0	25.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	573140	25.0	25.8	
116 1,2-Dichlorobenzene	146	11.265	11.271	0.000	91	530187	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	77	62065	25.0	26.6	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	91	400320	25.0	26.2	
S 124 Xylenes, Total	1				0			51.9	

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2665.D

Injection Date: 23-Jun-2018 19:36:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137527-B-2 MS

Worklist Smp#: 23

Client ID: ML-7-D

Purge Vol: 5.000 mL

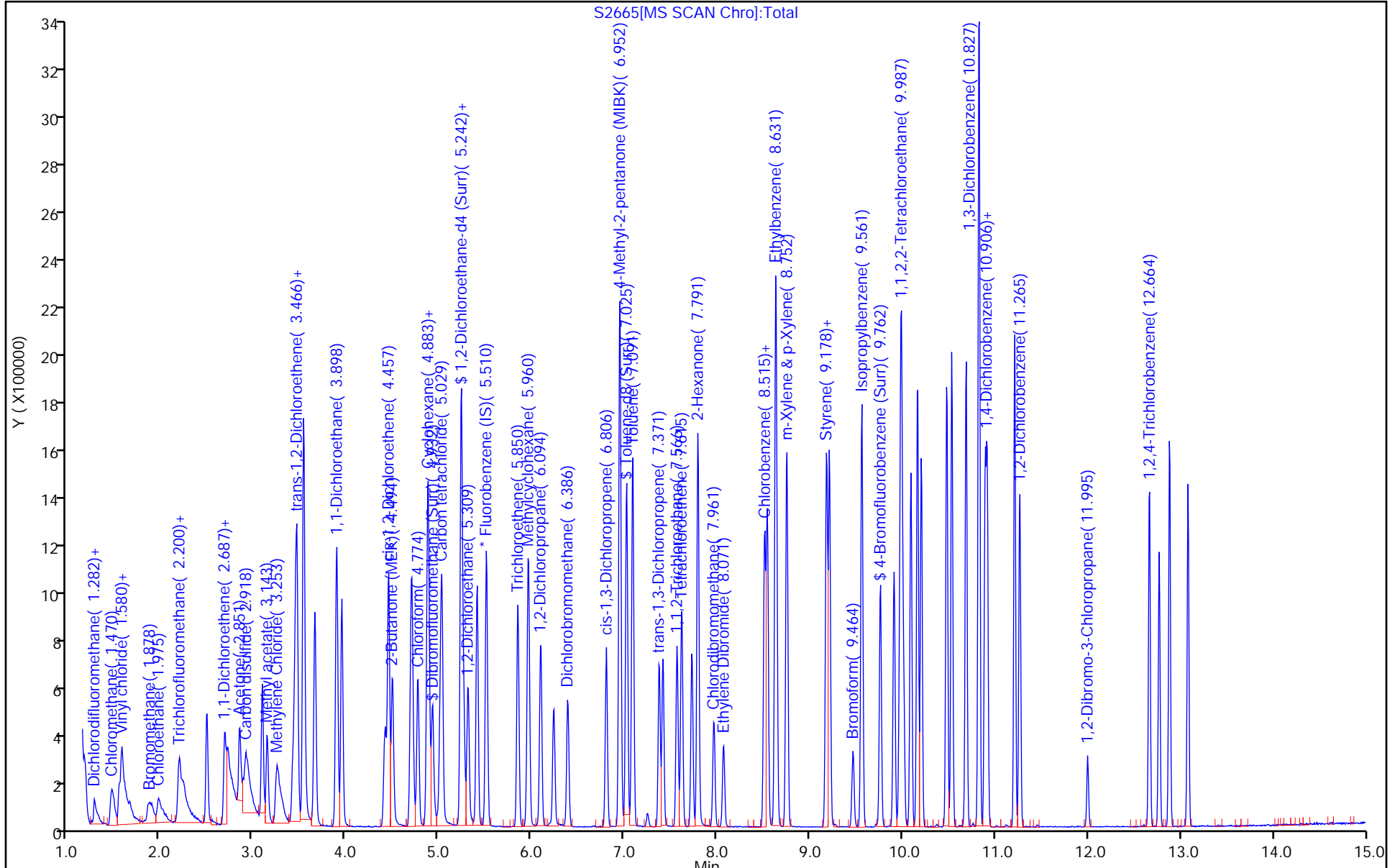
Dil. Factor: 5.0000

ALS Bottle#: 26

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D MSD Lab Sample ID: 480-137527-2 MSD
 Matrix: Water Lab File ID: S2666.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 19:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	200		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	132		5.0	1.1
79-00-5	1,1,2-Trichloroethane	125		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	136		5.0	1.6
75-34-3	1,1-Dichloroethane	292		5.0	1.9
75-35-4	1,1-Dichloroethene	139		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	131		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	125		5.0	2.0
95-50-1	1,2-Dichlorobenzene	129		5.0	4.0
107-06-2	1,2-Dichloroethane	128		5.0	1.1
78-87-5	1,2-Dichloropropane	127		5.0	3.6
541-73-1	1,3-Dichlorobenzene	129		5.0	3.9
106-46-7	1,4-Dichlorobenzene	128		5.0	4.2
78-93-3	2-Butanone (MEK)	641		50	6.6
591-78-6	2-Hexanone	569		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	583		25	11
67-64-1	Acetone	664		50	15
71-43-2	Benzene	141		5.0	2.1
75-27-4	Bromodichloromethane	140		5.0	2.0
75-25-2	Bromoform	141		5.0	1.3
74-83-9	Bromomethane	118		5.0	3.5
75-15-0	Carbon disulfide	131		5.0	0.95
56-23-5	Carbon tetrachloride	145		5.0	1.4
108-90-7	Chlorobenzene	134		5.0	3.8
124-48-1	Dibromochloromethane	145		5.0	1.6
75-00-3	Chloroethane	150		5.0	1.6
67-66-3	Chloroform	129		5.0	1.7
74-87-3	Chloromethane	108		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	190		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	134		5.0	1.8
110-82-7	Cyclohexane	137		5.0	0.90
75-71-8	Dichlorodifluoromethane	107		5.0	3.4
100-41-4	Ethylbenzene	135		5.0	3.7
106-93-4	1,2-Dibromoethane	128		5.0	3.7
98-82-8	Isopropylbenzene	138		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D MSD Lab Sample ID: 480-137527-2 MSD
 Matrix: Water Lab File ID: S2666.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 19:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	240		13	6.5
1634-04-4	Methyl tert-butyl ether	129		5.0	0.80
108-87-2	Methylcyclohexane	148		5.0	0.80
75-09-2	Methylene Chloride	120		5.0	2.2
100-42-5	Styrene	134		5.0	3.7
127-18-4	Tetrachloroethene	132		5.0	1.8
108-88-3	Toluene	134		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	141		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	133		5.0	1.9
79-01-6	Trichloroethene	146		5.0	2.3
75-69-4	Trichlorofluoromethane	140		5.0	4.4
75-01-4	Vinyl chloride	137		5.0	4.5
1330-20-7	Xylenes, Total	263		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2666.D
 Lims ID: 480-137527-B-2 MSD
 Client ID: ML-7-D
 Sample Type: MSD
 Inject. Date: 23-Jun-2018 19:59:30 ALS Bottle#: 27 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137527-b-2 msd
 Misc. Info.: 480-0072571-024
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:10:21 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk

Date: 24-Jun-2018 09:10:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	183304	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	373559	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	56	351188	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.932	-0.006	56	223573	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	150407	25.0	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.024	7.025	0.000	90	933798	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	274002	25.0	24.5	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	189230	25.0	21.4	
12 Chloromethane	50	1.470	1.470	0.000	99	302020	25.0	21.5	
13 Vinyl chloride	62	1.549	1.543	0.006	94	341716	25.0	27.4	
14 Bromomethane	94	1.860	1.860	0.000	88	157711	25.0	23.6	M
15 Chloroethane	64	1.975	1.963	0.012	95	227017	25.0	30.1	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	82	329882	25.0	27.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.006	55	194927	25.0	27.1	M
22 1,1-Dichloroethene	96	2.723	2.723	0.000	95	224961	25.0	27.8	
23 Acetone	43	2.851	2.851	0.006	99	468229	125.0	132.8	
26 Carbon disulfide	76	2.918	2.918	0.000	98	675312	25.0	26.2	
27 Methyl acetate	43	3.149	3.143	0.006	95	444354	50.0	48.0	
30 Methylene Chloride	84	3.247	3.247	0.000	95	256759	25.0	23.9	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	784001	25.0	25.8	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	92	261009	25.0	28.2	
39 1,1-Dichloroethane	63	3.897	3.892	0.005	97	1141765	25.0	58.5	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	81	404391	25.0	38.0	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	694571	125.0	128.3	
50 Chloroform	83	4.774	4.774	0.000	93	440327	25.0	25.9	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	96	506665	25.0	39.9	
52 Cyclohexane	56	4.883	4.883	0.000	80	466906	25.0	27.3	
55 Carbon tetrachloride	117	5.017	5.011	0.006	92	308546	25.0	29.0	
57 Benzene	78	5.242	5.236	0.006	96	1092963	25.0	28.1	
58 1,2-Dichloroethane	62	5.315	5.309	0.006	80	403159	25.0	25.7	
62 Trichloroethene	95	5.850	5.850	0.000	97	292169	25.0	29.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.966	5.966	0.000	92	451971	25.0	29.6	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	97	297239	25.0	25.3	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	331395	25.0	28.1	
72 cis-1,3-Dichloropropene	75	6.805	6.806	-0.001	92	397067	25.0	26.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.951	6.952	-0.001	95	1391450	125.0	116.7	
74 Toluene	92	7.091	7.086	0.006	95	666914	25.0	26.9	
77 trans-1,3-Dichloropropene	75	7.371	7.377	-0.006	95	363007	25.0	26.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	186581	25.0	24.9	
81 Tetrachloroethene	166	7.615	7.615	0.000	88	277820	25.0	26.5	
80 2-Hexanone	43	7.791	7.791	0.000	88	999664	125.0	113.9	
83 Chlorodibromomethane	129	7.961	7.961	0.000	87	246102	25.0	28.9	
84 Ethylene Dibromide	107	8.071	8.071	0.000	96	240748	25.0	25.5	
87 Chlorobenzene	112	8.539	8.540	0.000	93	730956	25.0	26.9	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1209753	25.0	27.0	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	474345		26.1	
91 o-Xylene	106	9.178	9.178	0.000	97	460038		26.6	
92 Styrene	104	9.208	9.209	-0.001	93	797258	25.0	26.9	
95 Bromoform	173	9.464	9.470	-0.006	95	153060	25.0	28.2	
94 Isopropylbenzene	105	9.561	9.567	0.000	96	1223262	25.0	27.6	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	74	316913	25.0	26.3	
111 1,3-Dichlorobenzene	146	10.827	10.821	0.006	69	560366	25.0	25.7	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	568889	25.0	25.6	
116 1,2-Dichlorobenzene	146	11.265	11.271	0.000	92	552185	25.0	25.8	
117 1,2-Dibromo-3-Chloropropan	75	12.001	11.995	0.006	75	58240	25.0	24.9	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	399246	25.0	26.2	
S 124 Xylenes, Total	1				0			52.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2666.D

Injection Date: 23-Jun-2018 19:59:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137527-B-2 MSD

Worklist Smp#: 24

Client ID: ML-7-D

Purge Vol: 5.000 mL

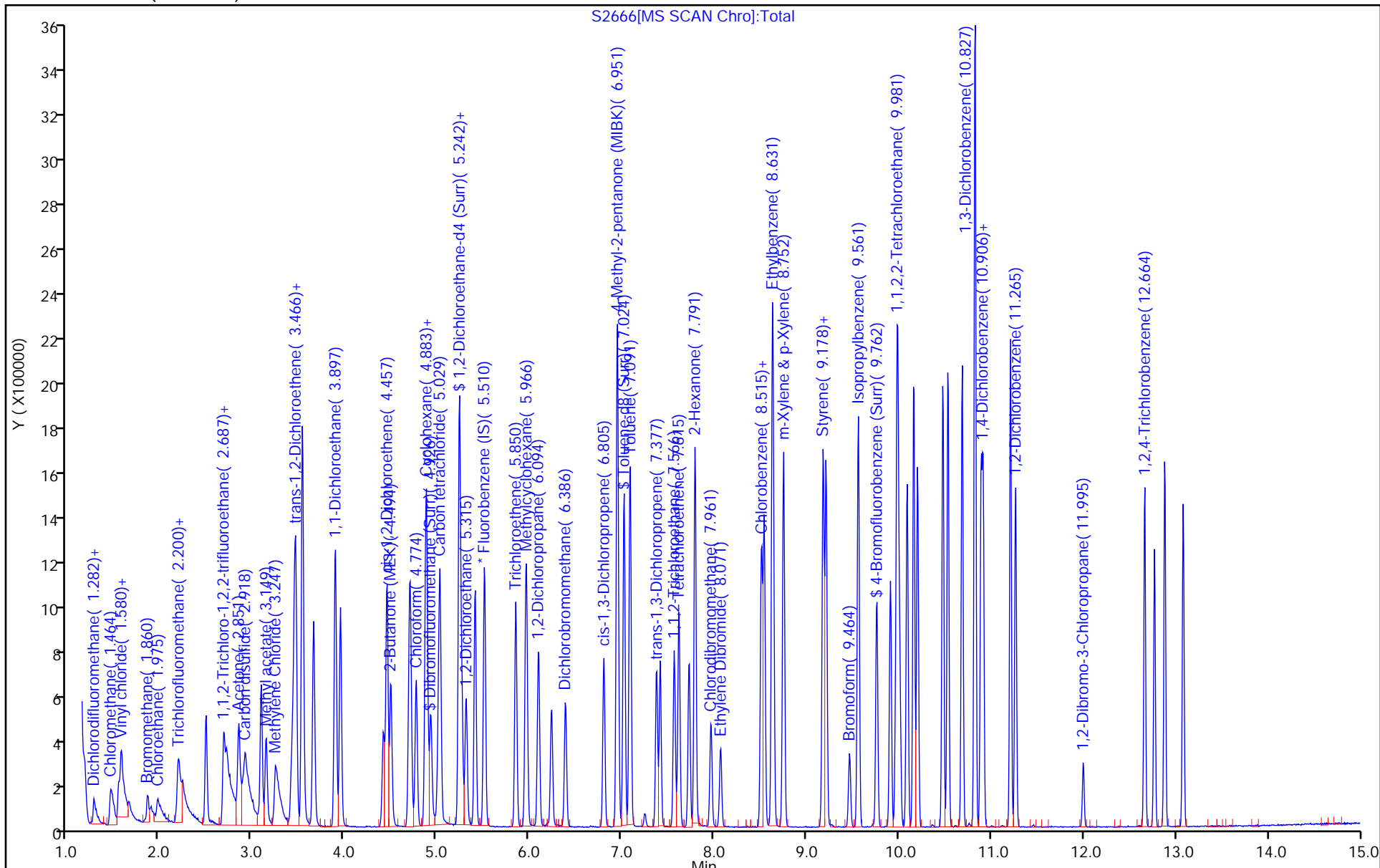
Dil. Factor: 5.0000

ALS Bottle#: 27

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

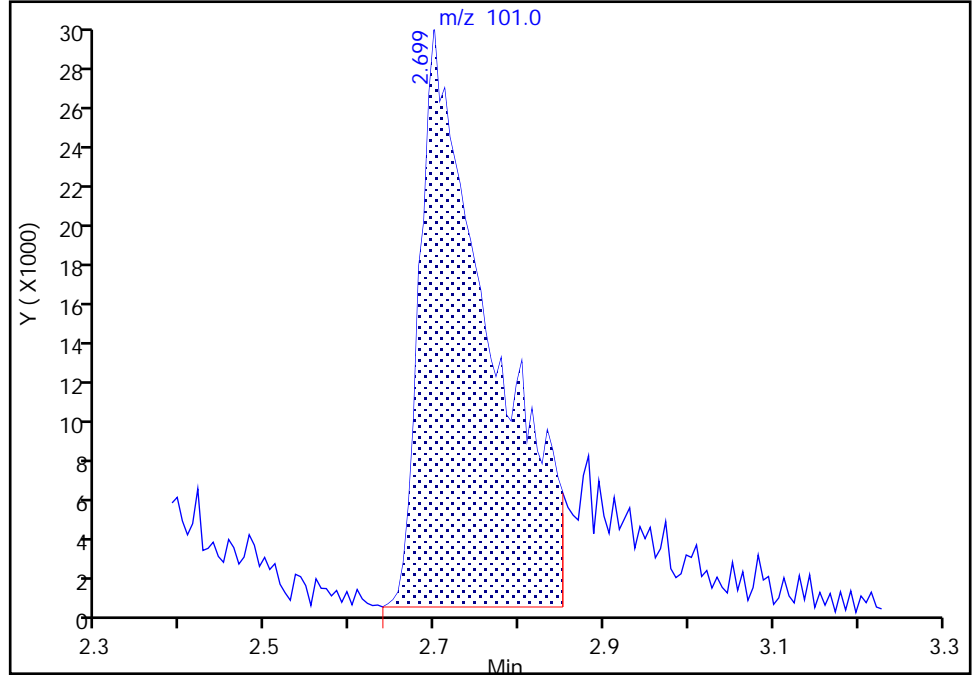
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2666.D
Injection Date: 23-Jun-2018 19:59:30 Instrument ID: HP5973S
Lims ID: 480-137527-B-2 MSD
Client ID: ML-7-D
Operator ID: RB ALS Bottle#: 27 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

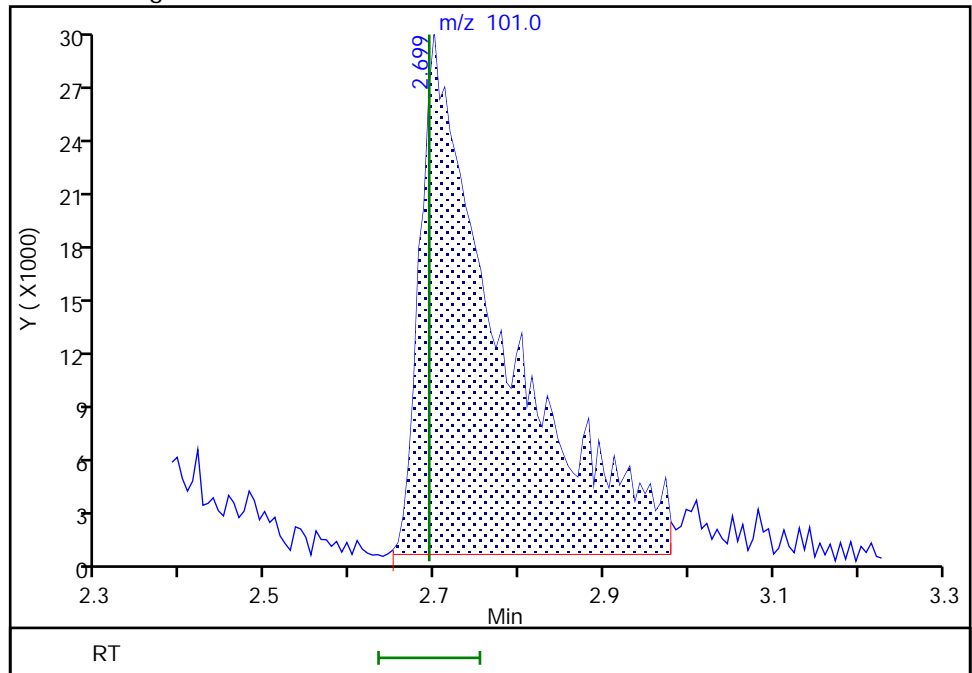
RT: 2.70
Area: 164089
Amount: 22.900316
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 194927
Amount: 27.134355
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 24-Jun-2018 09:10:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

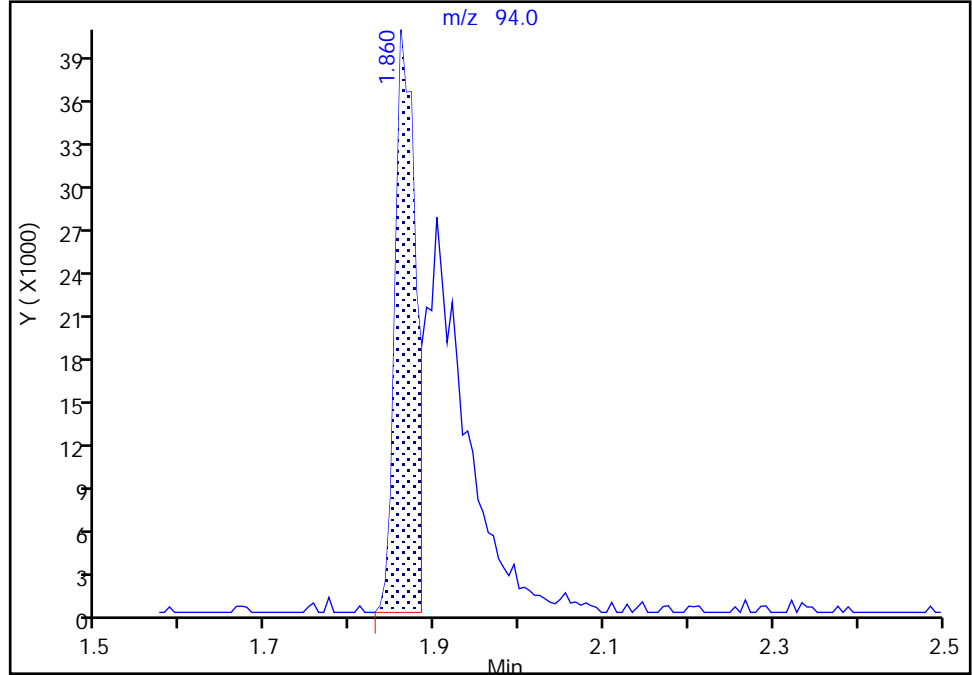
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2666.D
Injection Date: 23-Jun-2018 19:59:30 Instrument ID: HP5973S
Lims ID: 480-137527-B-2 MSD
Client ID: ML-7-D
Operator ID: RB ALS Bottle#: 27 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

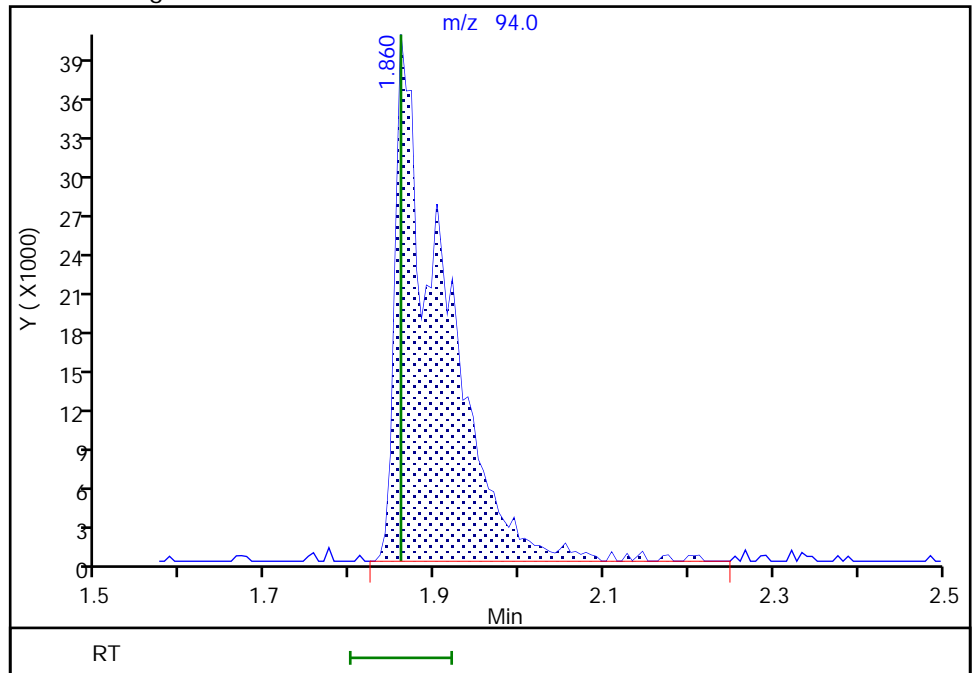
RT: 1.86
Area: 68794
Amount: 10.294871
Amount Units: ug/L

Processing Integration Results



RT: 1.86
Area: 157711
Amount: 23.601104
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 24-Jun-2018 09:09:18
Audit Action: Manually Integrated

Audit Reason: Baseline
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GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137527-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 06/20/2018 12:54Analysis Batch Number: 420621End Date: 06/20/2018 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420621/3		06/20/2018 12:54	1	S2504.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/5		06/20/2018 13:51	1	S2506.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/6		06/20/2018 14:14	1	S2507.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/7		06/20/2018 14:38	1	S2508.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/8		06/20/2018 15:01	1	S2509.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/9		06/20/2018 15:24	1	S2510.D	ZB-624 (20) 0.18 (mm)
ICIS 480-420621/10		06/20/2018 15:48	1	S2511.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/11		06/20/2018 16:11	1	S2512.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/12		06/20/2018 16:34	1	S2513.D	ZB-624 (20) 0.18 (mm)
MDLV 480-420621/14		06/20/2018 17:21	1		ZB-624 (20) 0.18 (mm)
MDLV 480-420621/15		06/20/2018 17:44	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/17		06/20/2018 18:31	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/18		06/20/2018 18:54	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/19		06/20/2018 19:17	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/20		06/20/2018 19:41	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/21		06/20/2018 20:04	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/22		06/20/2018 20:27	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/23		06/20/2018 20:51	1		ZB-624 (20) 0.18 (mm)
MDLV 480-420621/25		06/20/2018 21:37	1		ZB-624 (20) 0.18 (mm)
ICV 480-420621/26		06/20/2018 22:01	1		ZB-624 (20) 0.18 (mm)
ICV 480-420621/27		06/20/2018 22:24	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137527-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 06/23/2018 09:52Analysis Batch Number: 421204End Date: 06/23/2018 23:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-421204/2		06/23/2018 09:52	1	S2641.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-421204/3		06/23/2018 10:20	1	S2642.D	ZB-624 (20) 0.18 (mm)
CCV 480-421204/4		06/23/2018 10:44	1		ZB-624 (20) 0.18 (mm)
LCS 480-421204/5		06/23/2018 11:07	1	S2644.D	ZB-624 (20) 0.18 (mm)
RL 480-421204/6		06/23/2018 11:30	1		ZB-624 (20) 0.18 (mm)
MB 480-421204/7		06/23/2018 11:54	1	S2646.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 12:37	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 13:01	25		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 13:24	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 13:47	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 14:10	10		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 14:34	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 14:57	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 15:20	1		ZB-624 (20) 0.18 (mm)
480-137527-1		06/23/2018 15:43	20	S2655.D	ZB-624 (20) 0.18 (mm)
480-137527-2		06/23/2018 16:07	5	S2656.D	ZB-624 (20) 0.18 (mm)
480-137527-3		06/23/2018 16:30	5	S2657.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 16:53	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 17:16	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 17:40	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 18:03	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 18:26	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 18:50	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 19:13	1		ZB-624 (20) 0.18 (mm)
480-137527-2 MS		06/23/2018 19:36	5	S2665.D	ZB-624 (20) 0.18 (mm)
480-137527-2 MSD		06/23/2018 19:59	5	S2666.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 21:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 21:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 21:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 22:19	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 22:42	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 23:05	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 421204 Batch Start Date: 06/23/18 09:52 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00127	BFB_WRK 00071	GAS CORP mix 00287
BFB 480-421204/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-421204/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-421204/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-421204/7		8260C		5 mL	5 mL				
480-137527-G-1	ML-7-I	8260C	T	5 mL	5 mL	<2 SU			
480-137527-G-2	ML-7-D	8260C	T	5 mL	5 mL	<2 SU			
480-137527-B-2 MS	ML-7-D	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-137527-B-2 MSD	ML-7-D	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-137527-B-3	DUPE	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00292	S_8260_Surr 00271	AnalysisComment			
BFB 480-421204/2		8260C							
CCVIS 480-421204/3		8260C		1 uL	1 uL				
LCS 480-421204/5		8260C		1 uL	1 uL				
MB 480-421204/7		8260C		1 uL	1 uL				
480-137527-G-1	ML-7-I	8260C	T	1 uL	1 uL	Targets			
480-137527-G-2	ML-7-D	8260C	T	1 uL	1 uL	Targets			
480-137527-B-2 MS	ML-7-D	8260C	T	1 uL	1 uL	Targets			
480-137527-B-2 MSD	ML-7-D	8260C	T	1 uL	1 uL	Targets			
480-137527-B-3	DUPE	8260C	T	1 uL	1 uL	Targets			

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 421204 Batch Start Date: 06/23/18 09:52 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_045.D
 Lab ID: LCS 480-420316/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	13.1	90	79-120	
Ethene	13.6	12.0	88	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_12_046.D

Lab ID: LCSD 480-420316/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	14.6	13.8	95	6	50	79-120	
Ethene	13.6	12.8	94	6	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: MB 480-420316/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_12_044.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/19/2018 09:55 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-420316/5	06/19/2018 10:12	
	LCSD 480-420316/6	06/19/2018 10:30	
ML-7-D	480-137527-2	06/19/2018 12:29	
ML-7-I	480-137527-1	06/19/2018 14:31	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: 21_12_057.D
 Analysis Method: RSK-175 Date Collected: 06/14/2018 10:05
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 14:31
 Soil Aliquot Vol: _____ Dilution Factor: 11
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	120		83	17
74-85-1	Ethene	700		77	17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_057.D
 Lims ID: 480-137527-K-1
 Client ID: ML-7-I
 Sample Type: Client
 Inject. Date: 19-Jun-2018 14:31:33 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 11.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

2 Ethane

1	1.750	1.753	-0.003	24719	11.0	
2	1.543	1.547	-0.004	33323	11.1	

3 Ethylene

1	2.410	2.437	-0.027	94936	63.2	
2	1.463	1.467	-0.004	120886	64.2	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_057.D

Injection Date: 19-Jun-2018 14:31:33

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-137527-K-1

Lab Sample ID: 480-137527-1

Worklist Smp#: 17

Client ID: ML-7-I

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

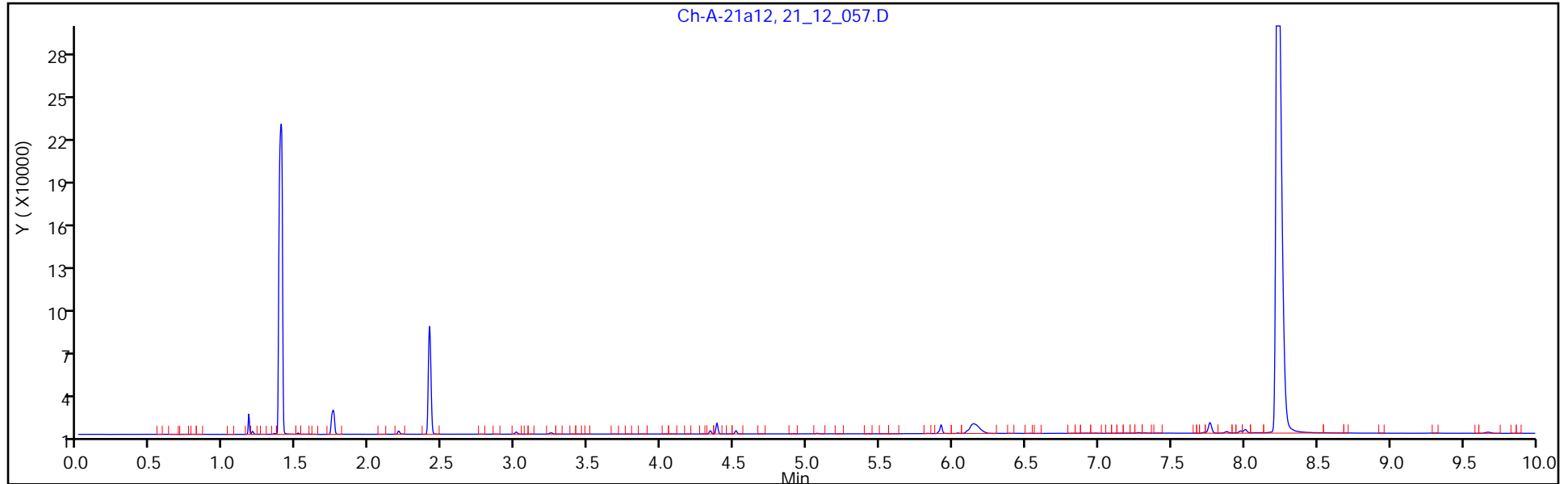
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

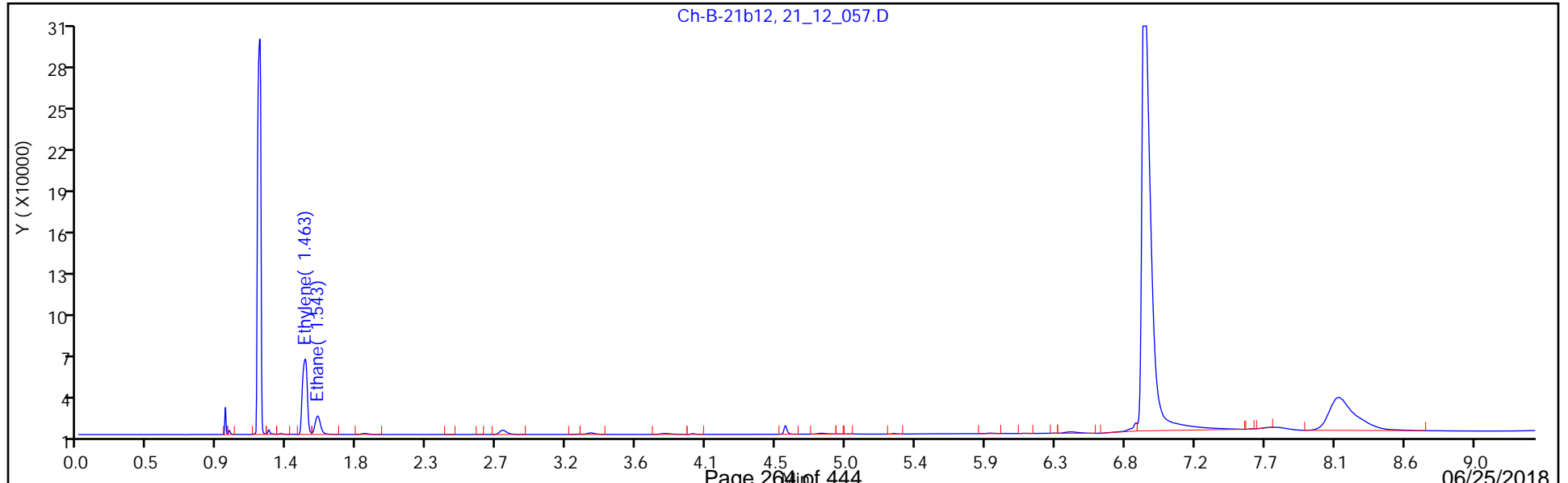
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: 21_12_050.D
 Analysis Method: RSK-175 Date Collected: 06/14/2018 14:05
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 12:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	37		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_050.D
 Lims ID: 480-137527-K-2
 Client ID: ML-7-D
 Sample Type: Client
 Inject. Date: 19-Jun-2018 12:29:03 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.740	1.753	-0.013	64596	37.1	
2	1.537	1.547	-0.010	78319	34.5	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_050.D

Injection Date: 19-Jun-2018 12:29:03

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-137527-K-2

Lab Sample ID: 480-137527-2

Worklist Smp#: 10

Client ID: ML-7-D

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

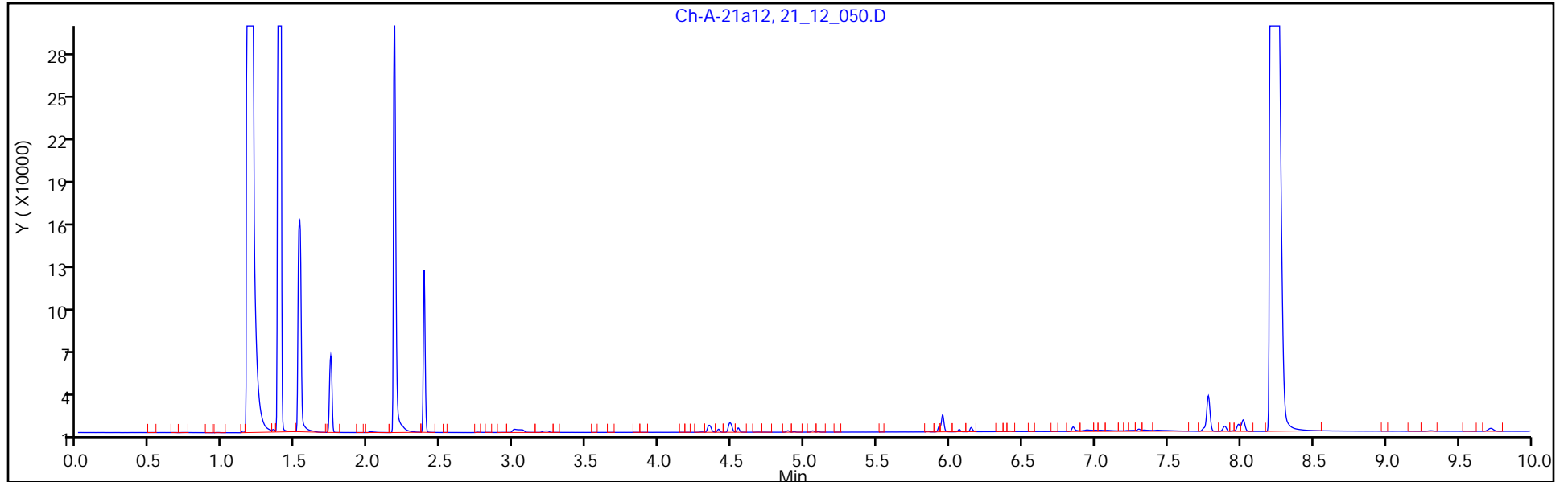
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

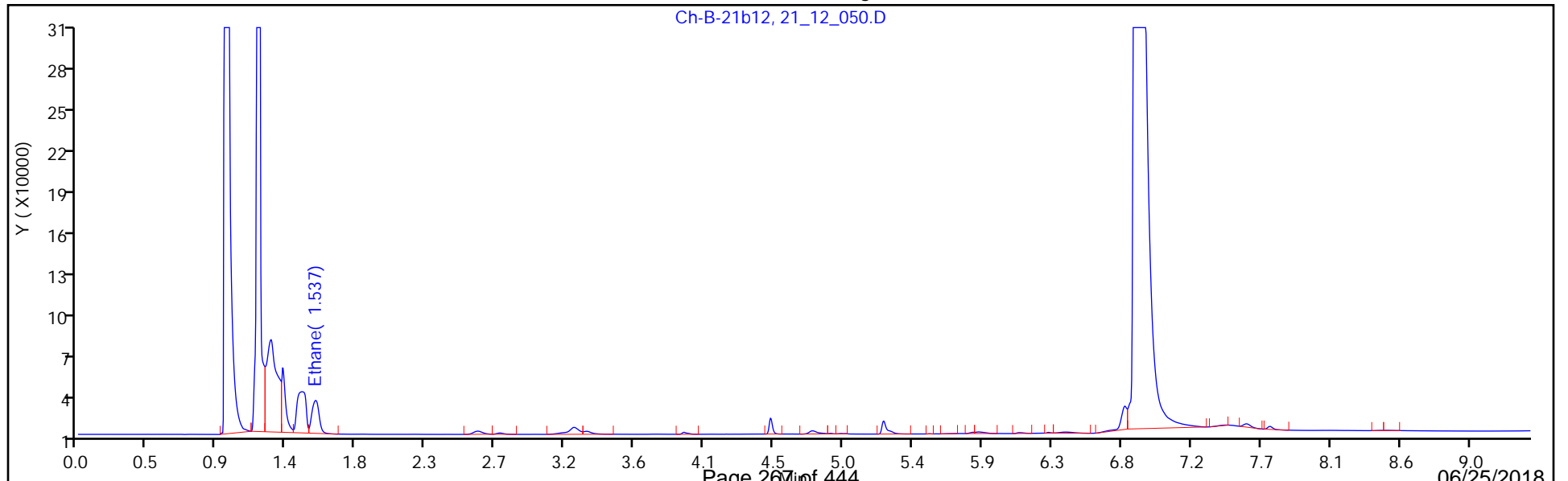
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124						0.9980			0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962						0.9980			0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756						0.9980			0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753						0.9970			0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147						0.9930			0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	Lin1	9749	14857	34711	62430	125878	3.88	7.77	19.4	38.8	77.7
		229956	348303	441234	534455		155	233	311	388	
Ethane	Lin1	18234	28234	67776	121900	247603	7.28	14.6	36.4	72.8	146
		450167	686896	868187	+++++		291	437	583	+++++	
Ethene	Lin1	15388	24254	57298	104285	211496	6.80	13.6	34.0	68.0	136
		384441	587597	737510	+++++		272	408	544	+++++	
Propane	Lin1	27946	43073	103995	185489	380021	10.7	21.4	53.4	107	214
		684190	+++++	+++++	+++++		427	+++++	+++++	+++++	
Butane	Lin1	37264	57053	138358	247119	587931	13.9	27.9	69.7	139	279
		1013085	+++++	+++++	+++++		558	+++++	+++++	+++++	

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	
2 Ethane							
1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	
3 Ethylene							
1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	
4 Propane							
1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	
5 Butane							
1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

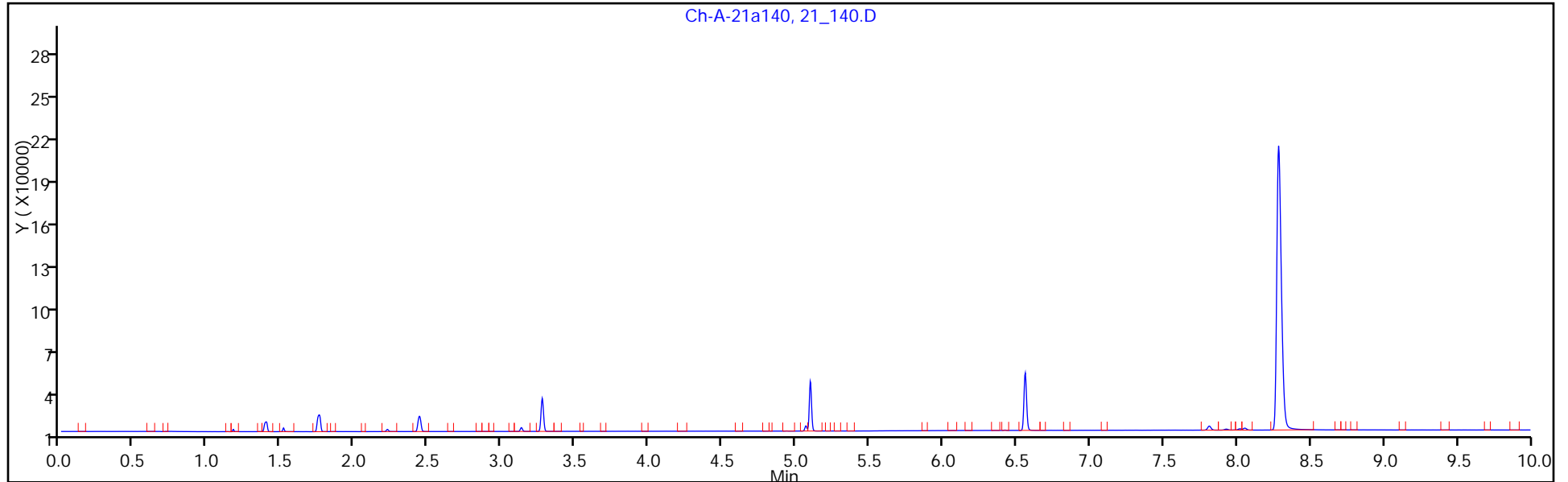
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

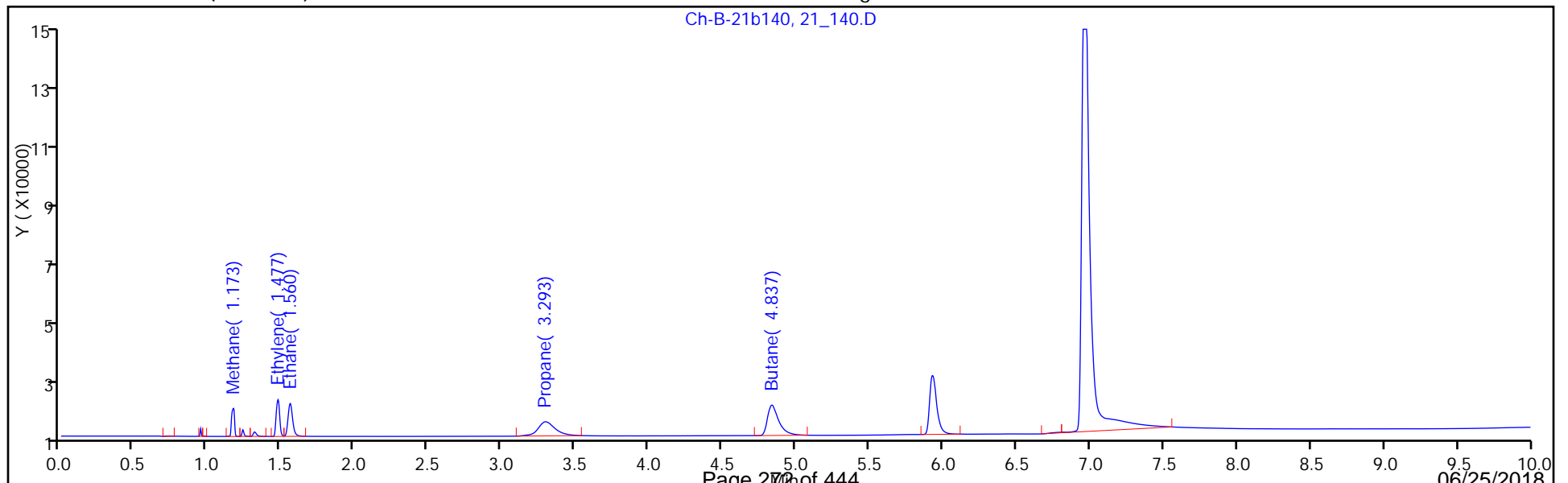
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	
2 Ethane							
1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	
3 Ethylene							
1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	
4 Propane							
1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	
5 Butane							
1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

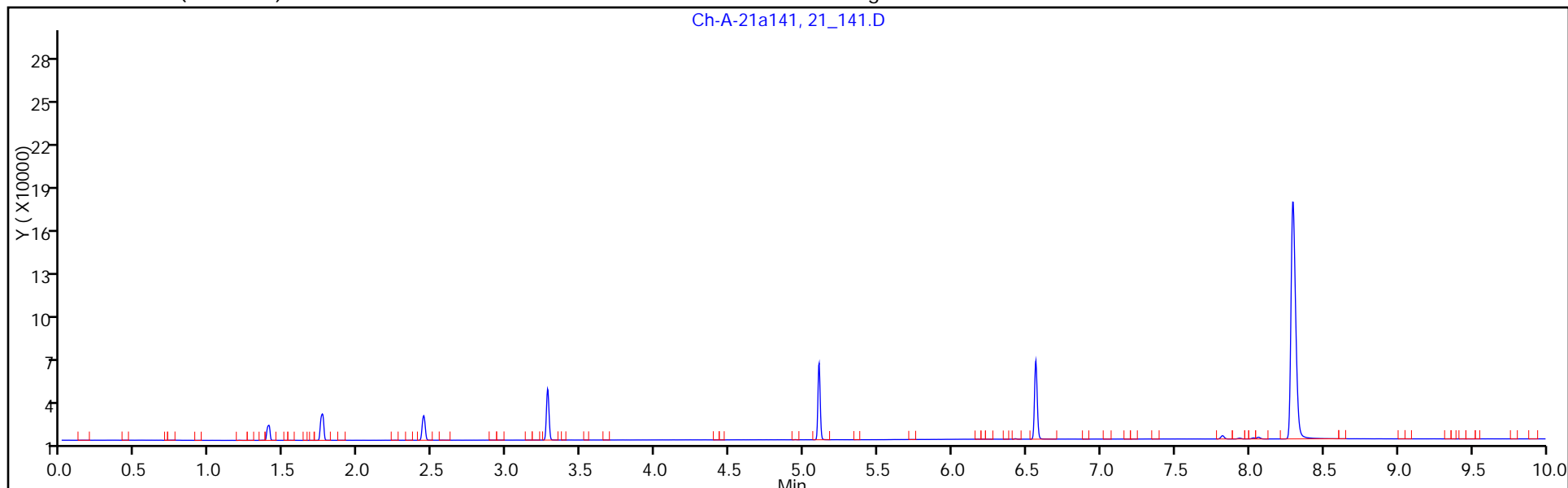
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

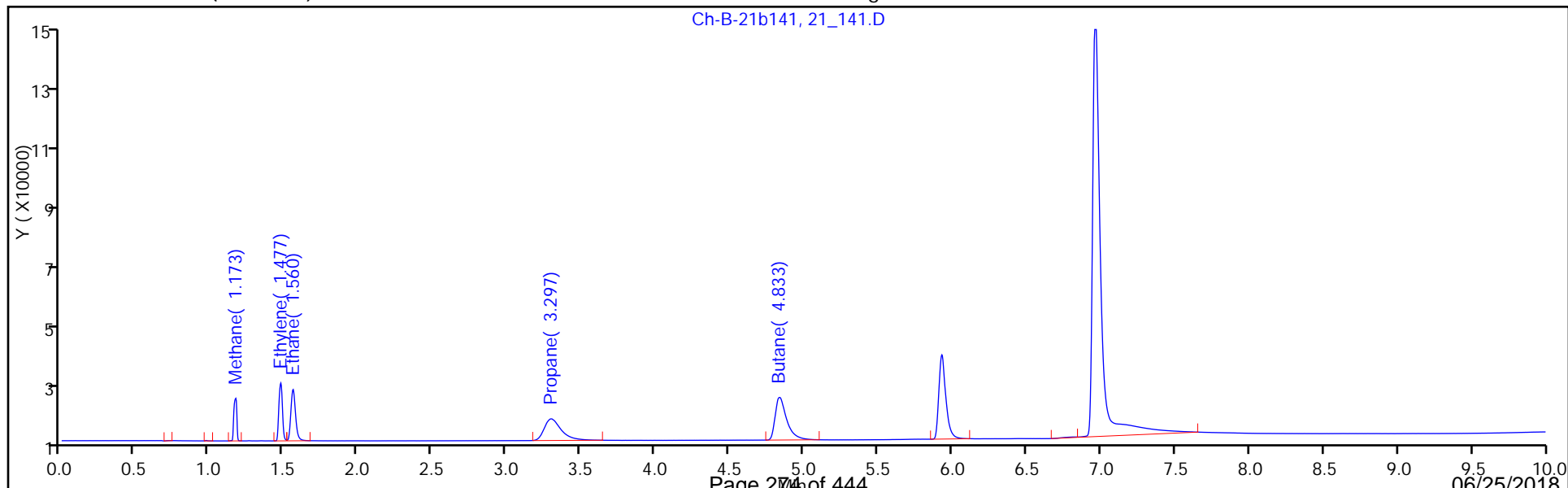
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	
2 Ethane							
1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	
3 Ethylene							
1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	
4 Propane							
1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	
5 Butane							
1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022 Amount Added: 50.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

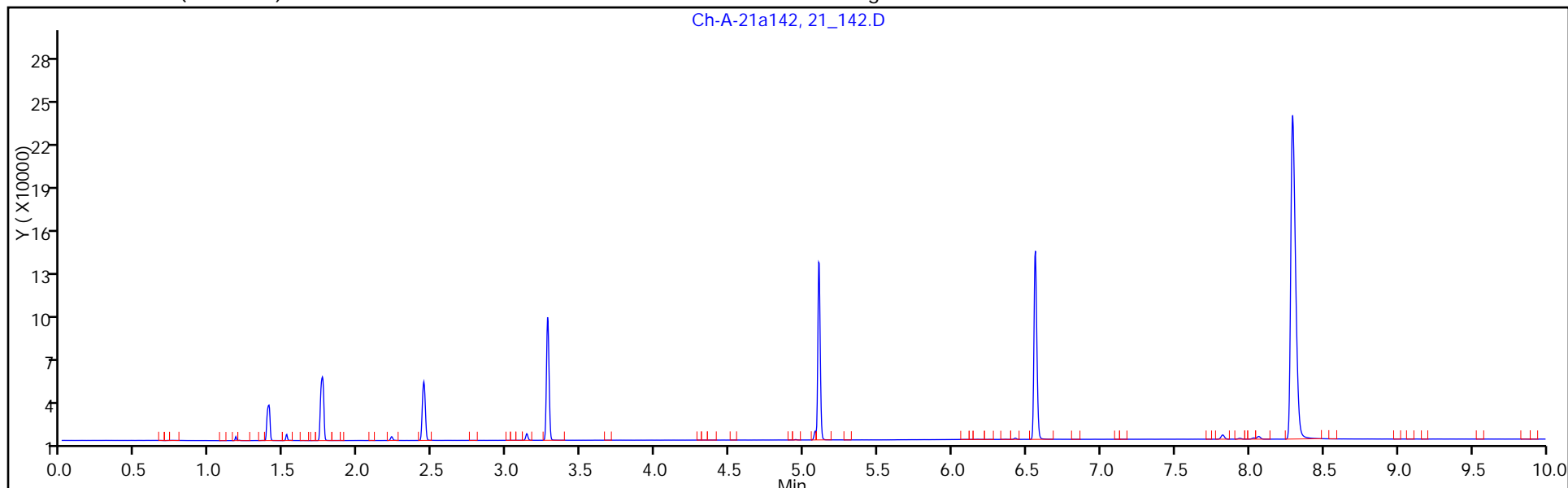
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

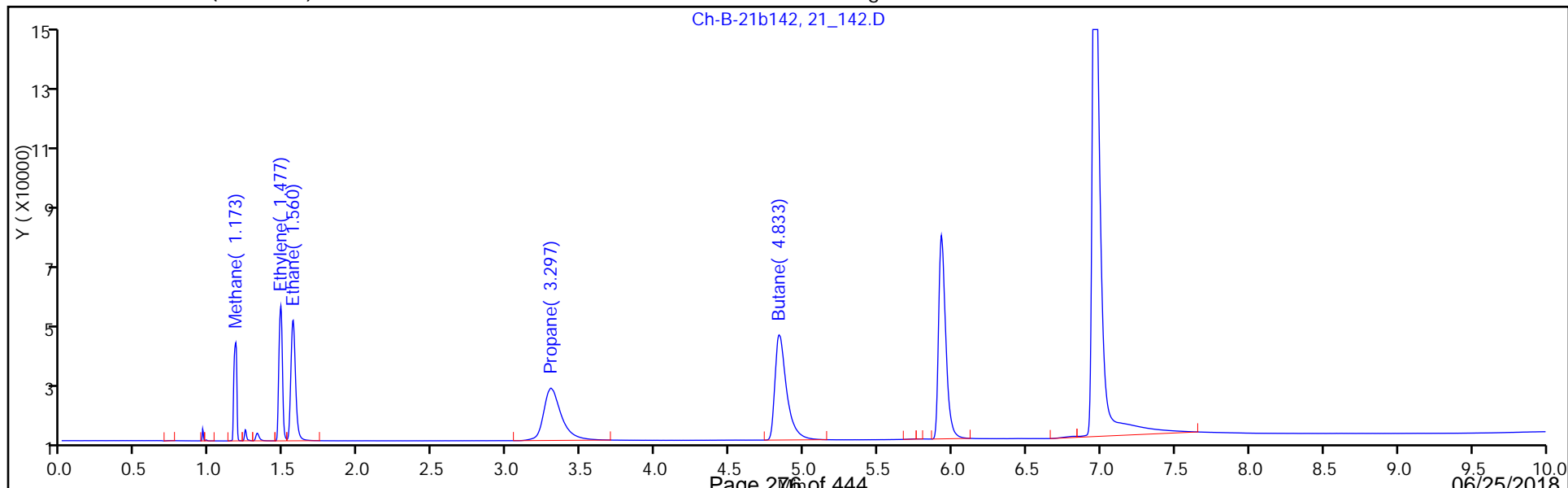
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	
2 Ethane							
1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	
3 Ethylene							
1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	
4 Propane							
1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	
5 Butane							
1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

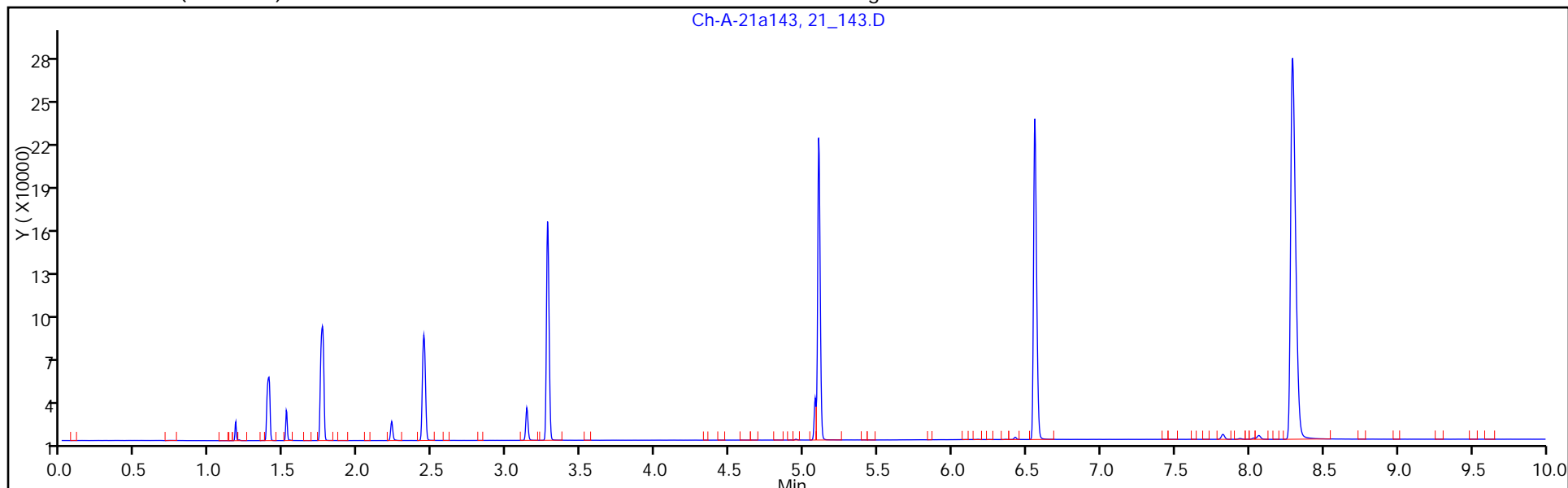
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

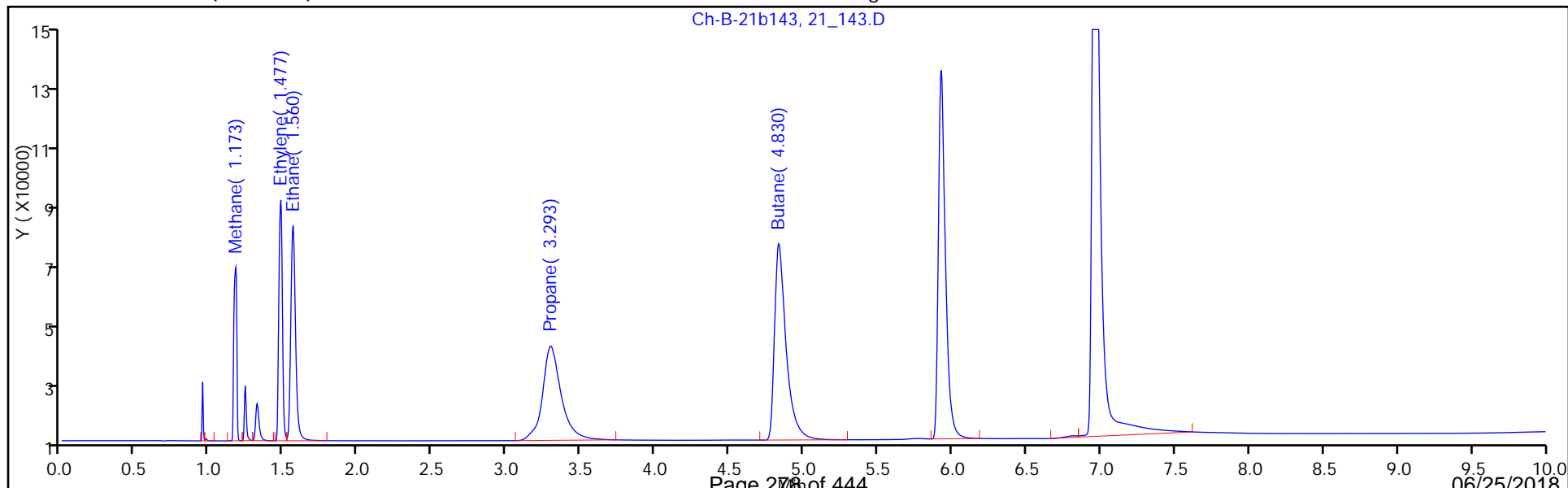
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	
2 Ethane							
1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	
3 Ethylene							
1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	
4 Propane							
1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	
5 Butane							
1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022 Amount Added: 200.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

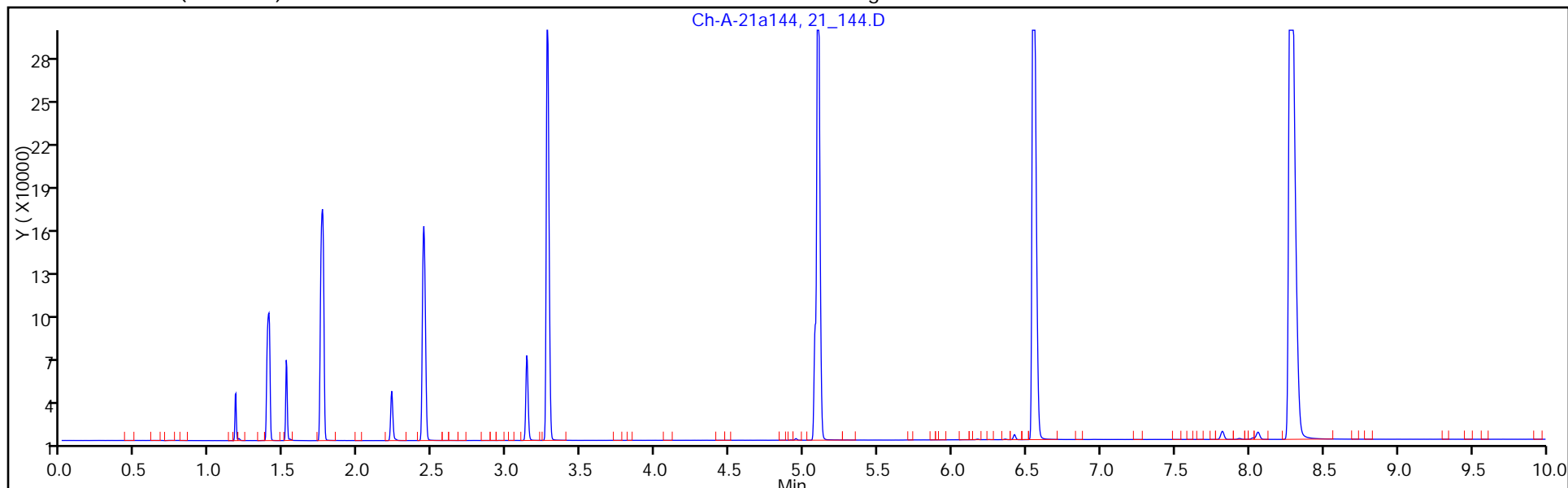
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

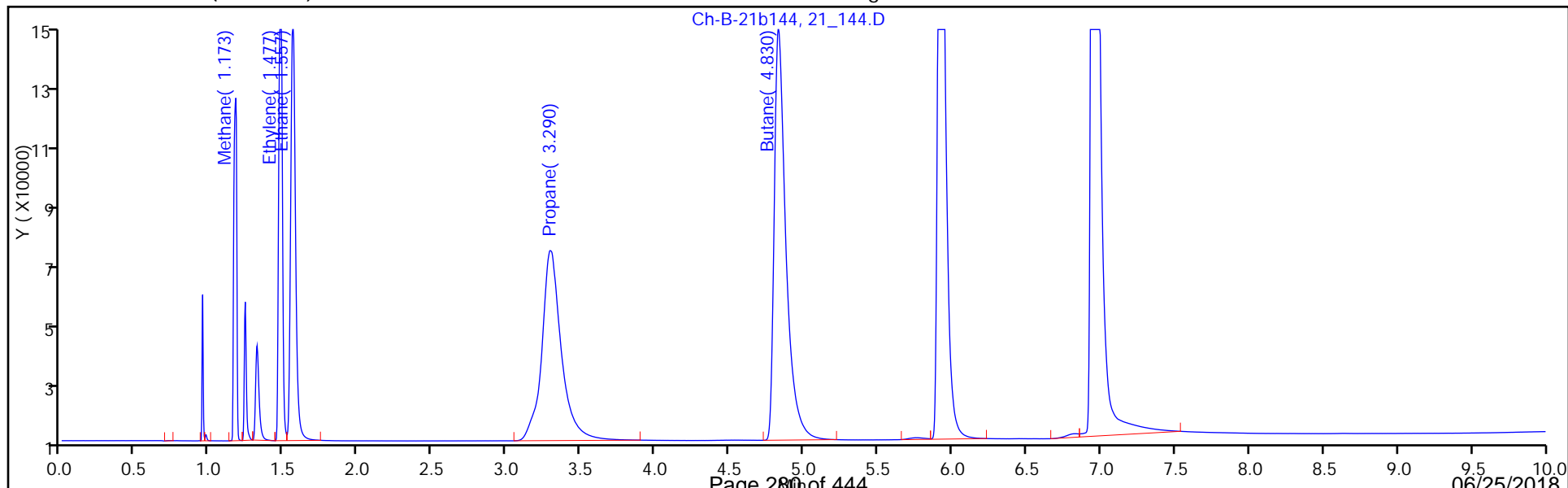
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	
2 Ethane							
1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	
3 Ethylene							
1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	
4 Propane							
1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	
5 Butane							
1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022 Amount Added: 400.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

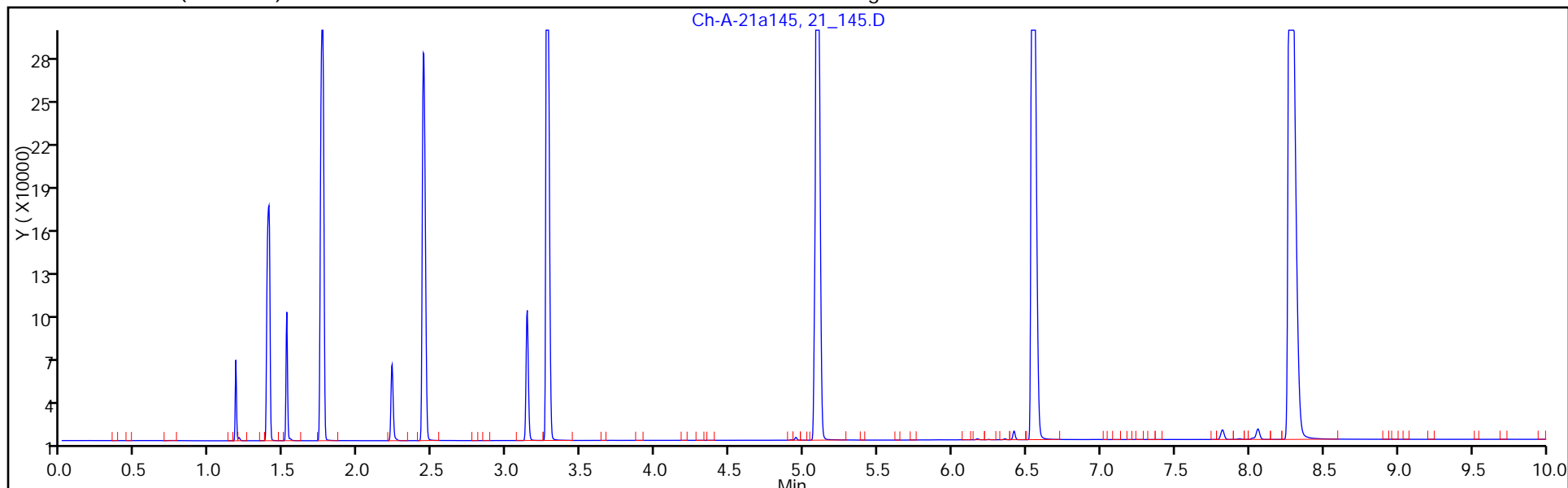
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

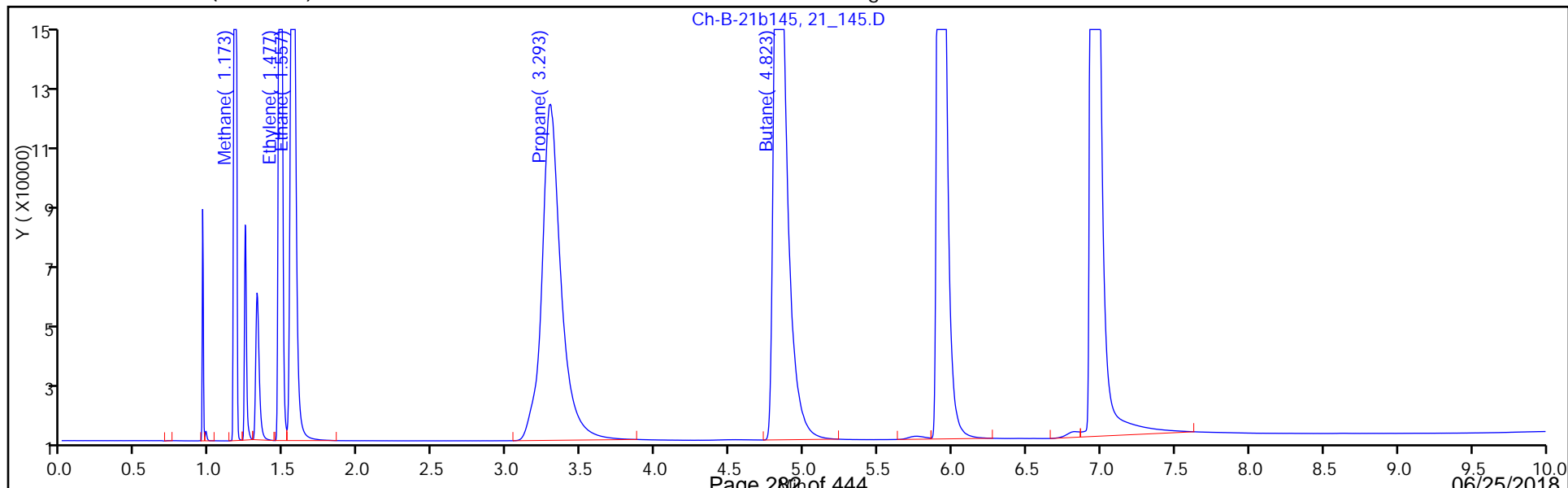
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	
2 Ethane							
1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	
3 Ethylene							
1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	
4 Propane							
1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	
5 Butane							
1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022 Amount Added: 600.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

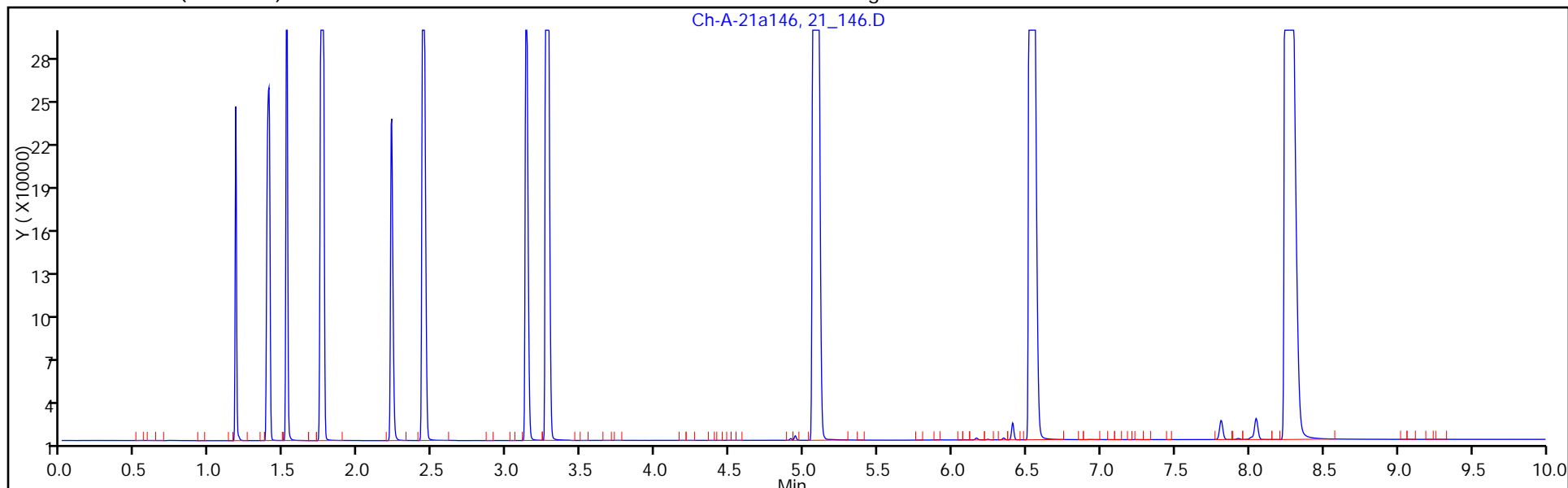
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

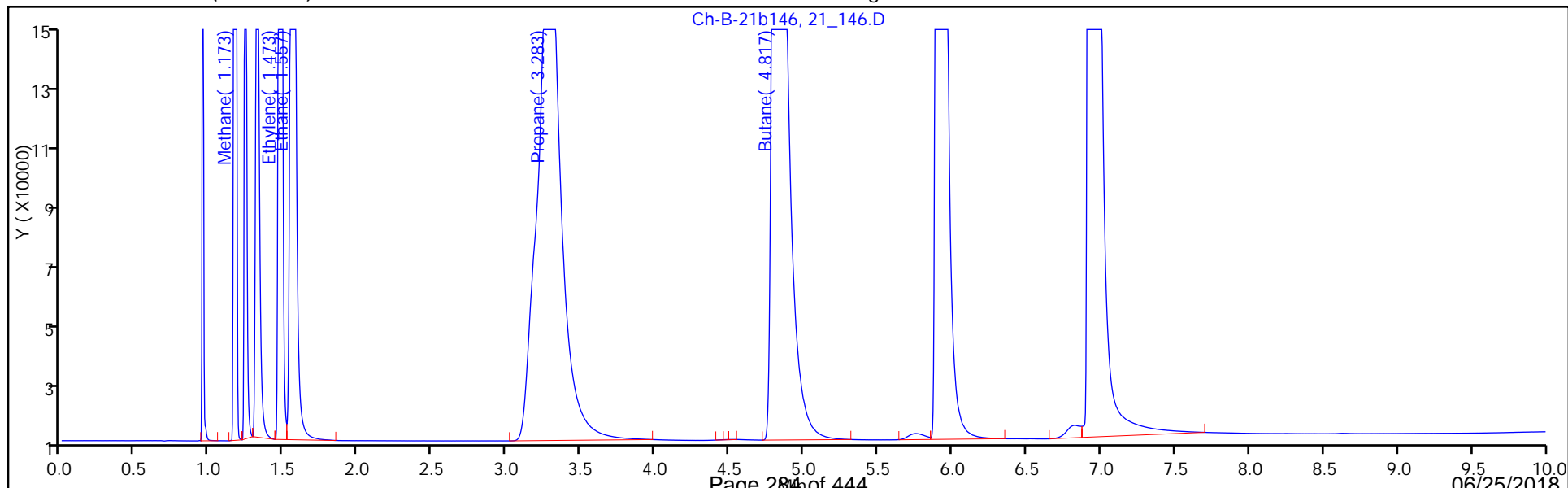
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	441234	310.8	306.7	M
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							
1	1.757	1.757	0.000	868187	582.7	563.1	M
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							
1	2.433	2.440	-0.007	737510	543.9	523.5	M
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 800.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

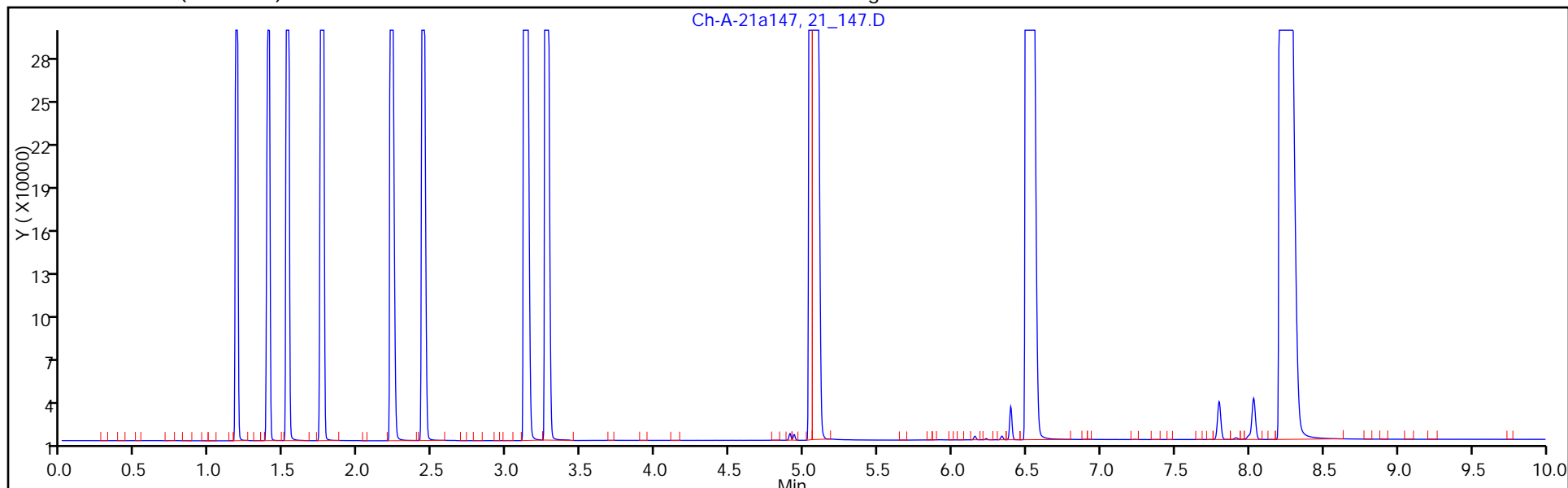
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

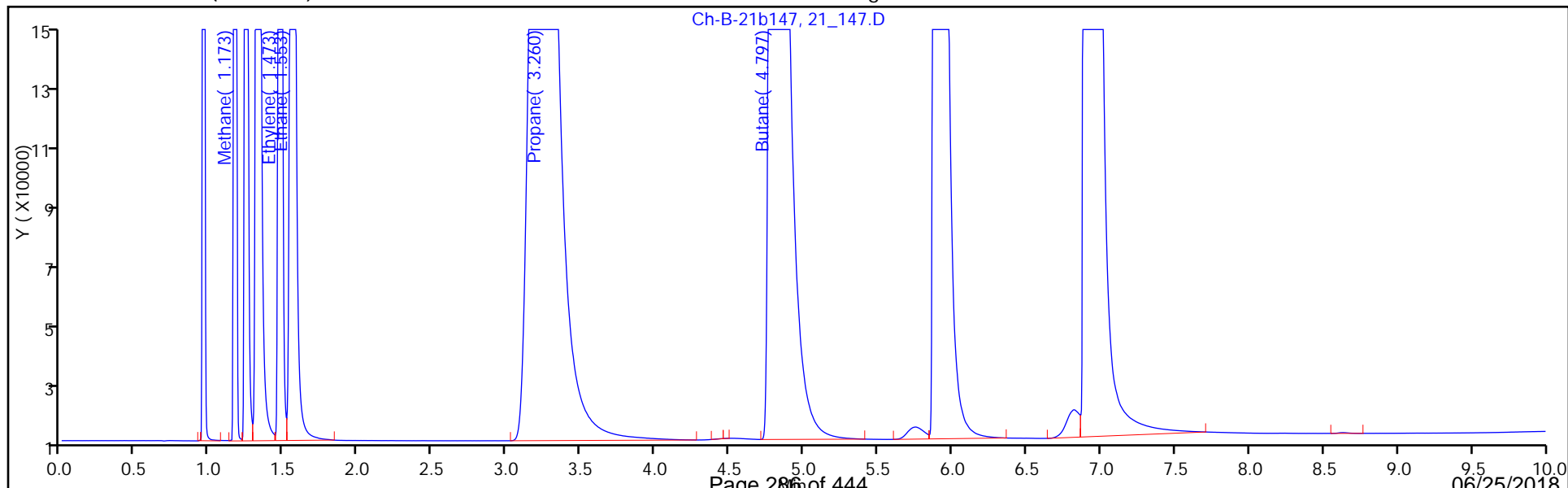
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	
2 Ethane							
1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	
3 Ethylene							
1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	
4 Propane							
1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M
5 Butane							
1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 1000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

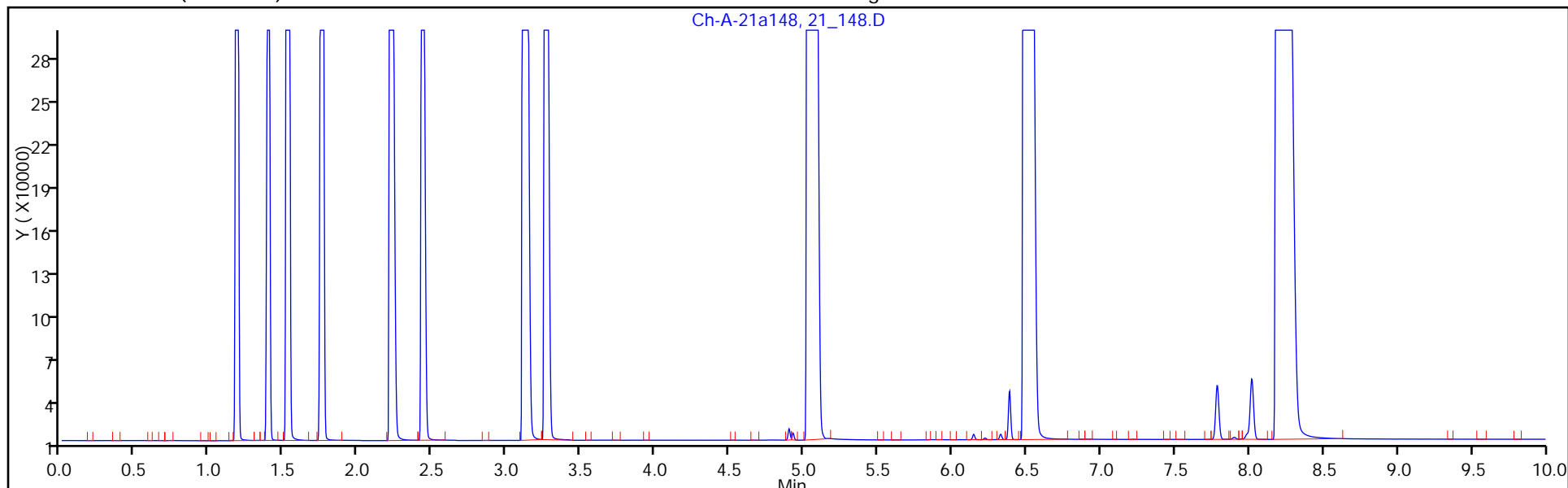
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

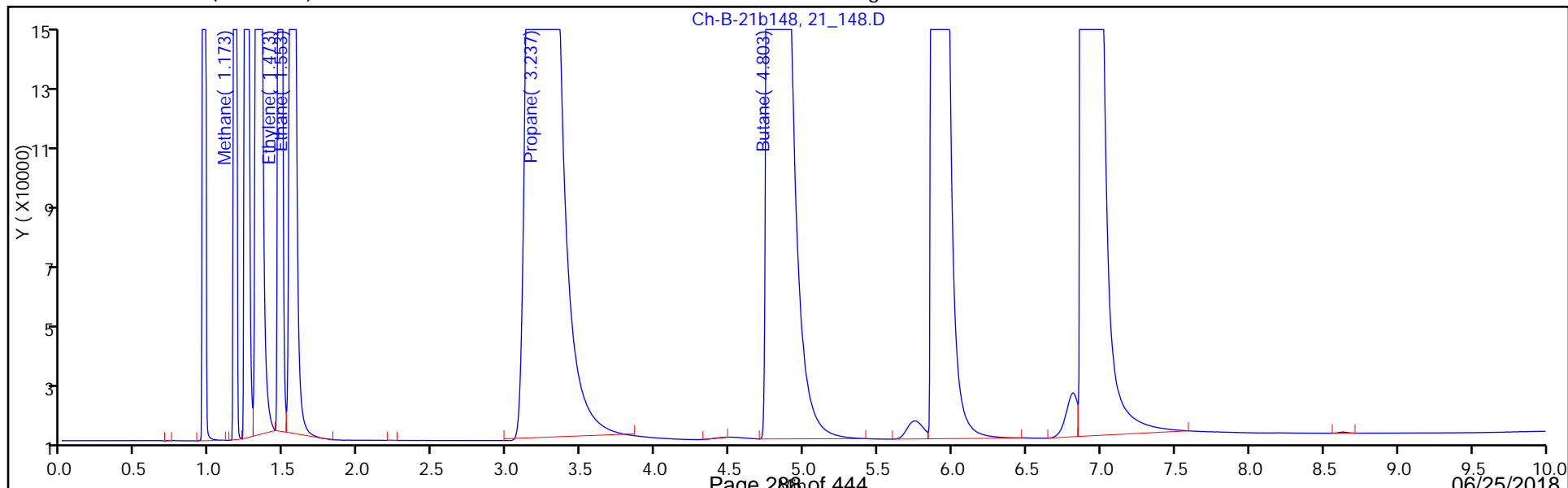
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

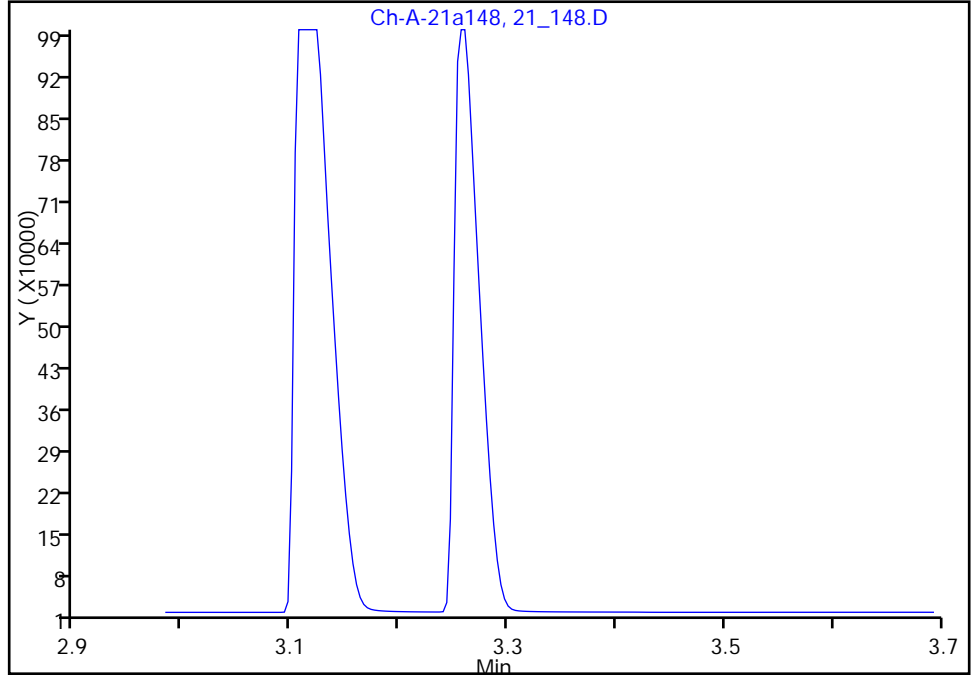
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

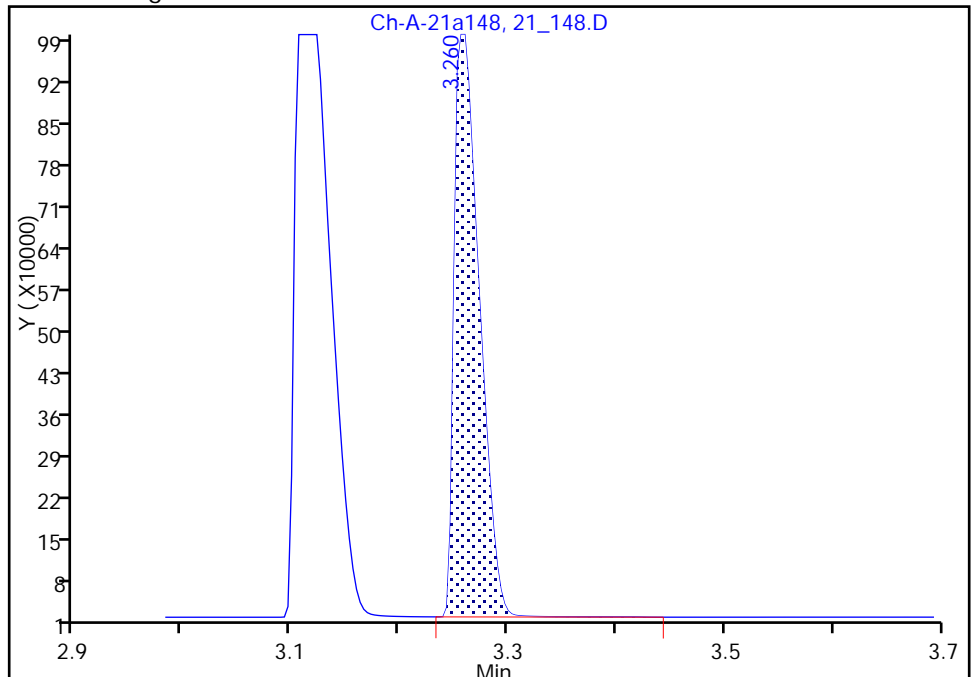
Not Detected
Expected RT: 3.27

Processing Integration Results



Manual Integration Results

RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l



Reviewer: gentnert, 12-Sep-2017 11:10:42
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1773		15.9	15.5	2.6	15.0
Ethane	Lin1		1745		28.1	29.1	-3.5	15.0
Ethene	Lin1		1593		26.3	27.2	-3.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.44	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_043.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Jun-2018 09:37:36 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 10:10:33

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	27551	15.5	15.9	
2	1.173	1.173	0.000	36762	15.5	16.5	
2 Ethane							
1	1.753	1.753	0.000	50847	29.1	28.1	
2	1.547	1.547	0.000	67145	29.1	28.7	
3 Ethylene							
1	2.437	2.437	0.000	43330	27.2	26.3	
2	1.467	1.467	0.000	56391	27.2	26.8	
4 Propane							
1	3.263	3.263	0.000	77622	42.7	40.9	
2	3.257	3.257	0.000	100809	42.7	36.7	
5 Butane							
1	5.087	5.087	0.000	103334	55.8	50.6	
2	4.797	4.797	0.000	137989	55.8	49.7	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_043.D

Injection Date: 19-Jun-2018 09:37:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

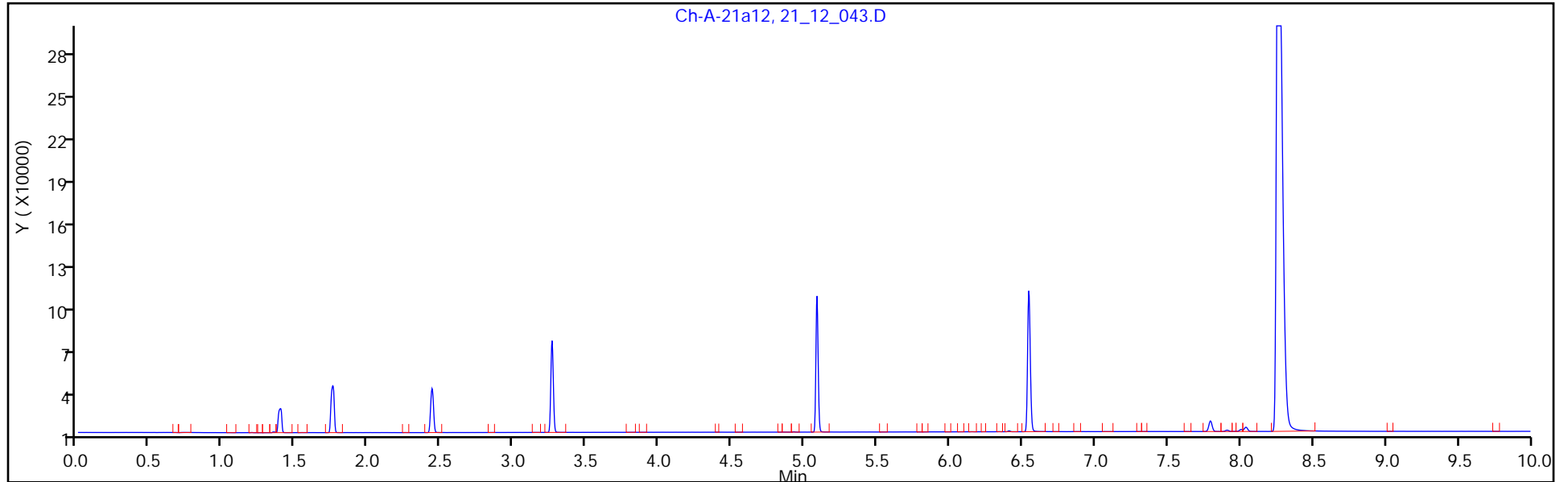
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

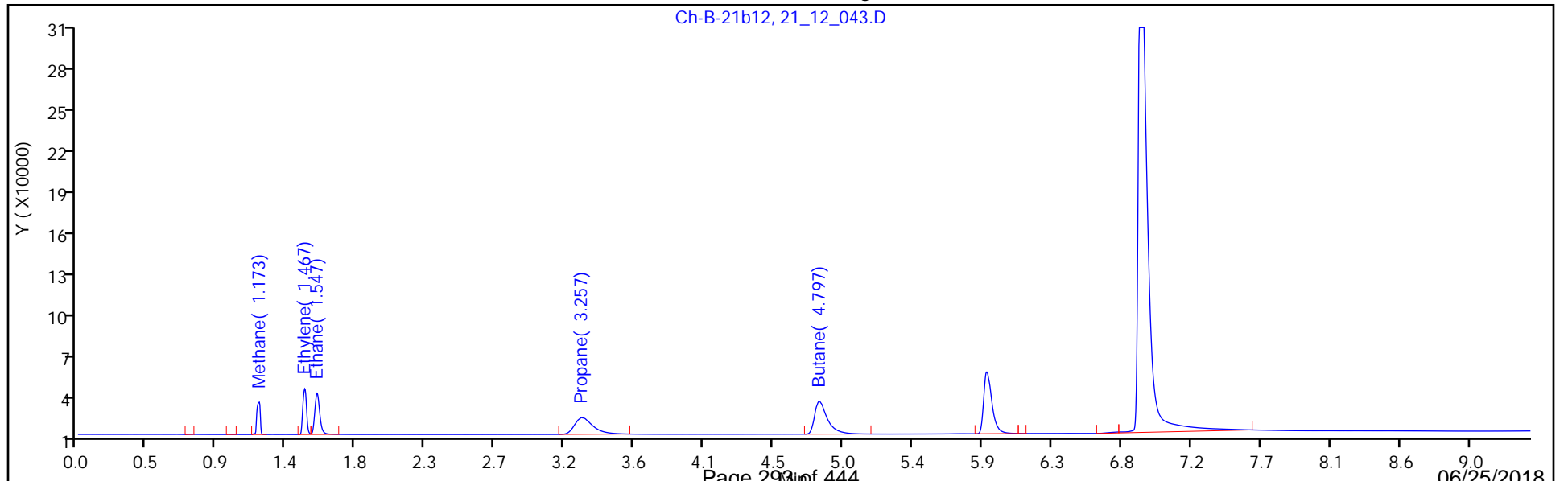
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1865		16.9	15.5	9.1	15.0
Ethane	Lin1		1867		30.4	29.1	4.5	15.0
Ethene	Lin1		1703		28.4	27.2	4.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.42	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_060.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Jun-2018 15:33:49 ALS Bottle#: 0 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:32:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK004

First Level Reviewer: clarkda Date: 19-Jun-2018 16:12:55

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28985	15.5	16.9	
2	1.173	1.173	0.000	39002	15.5	17.8	
2 Ethane							
1	1.750	1.753	-0.003	54399	29.1	30.4	
2	1.543	1.547	-0.004	72272	29.1	31.3	
3 Ethylene							
1	2.420	2.437	-0.017	46316	27.2	28.4	
2	1.467	1.467	0.000	59914	27.2	28.8	
4 Propane							
1	3.257	3.263	-0.006	83355	42.7	44.4	
2	3.260	3.257	0.003	110495	42.7	40.7	
5 Butane							
1	5.083	5.087	-0.004	111199	55.8	54.8	
2	4.793	4.797	-0.004	148052	55.8	53.9	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_060.D

Injection Date: 19-Jun-2018 15:33:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

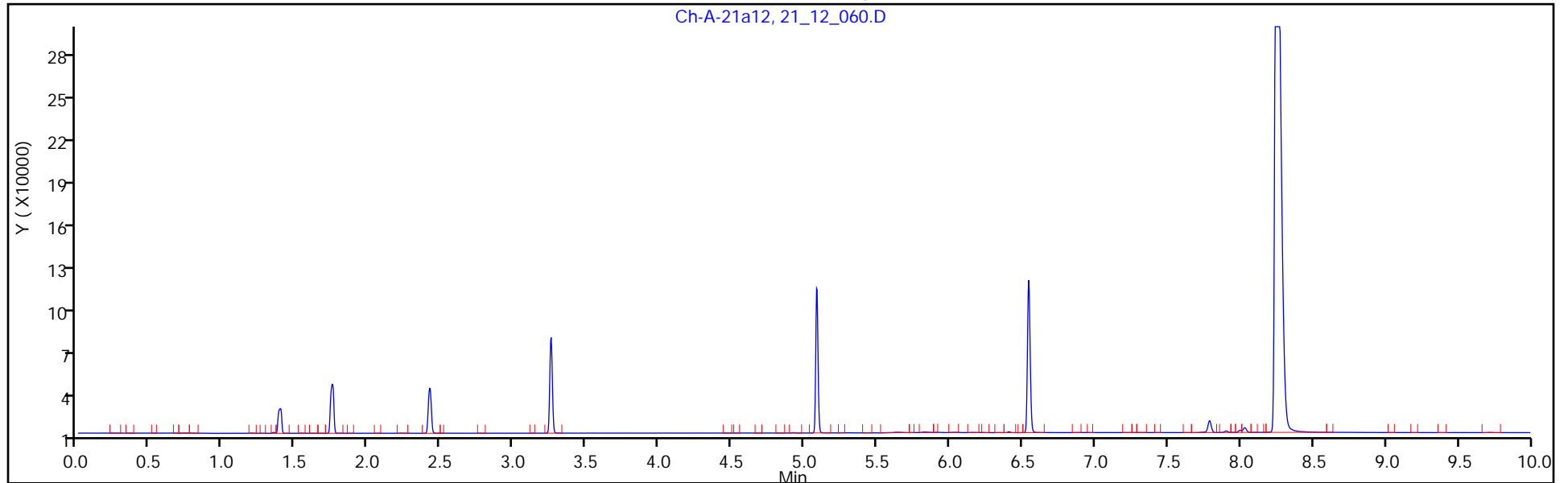
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

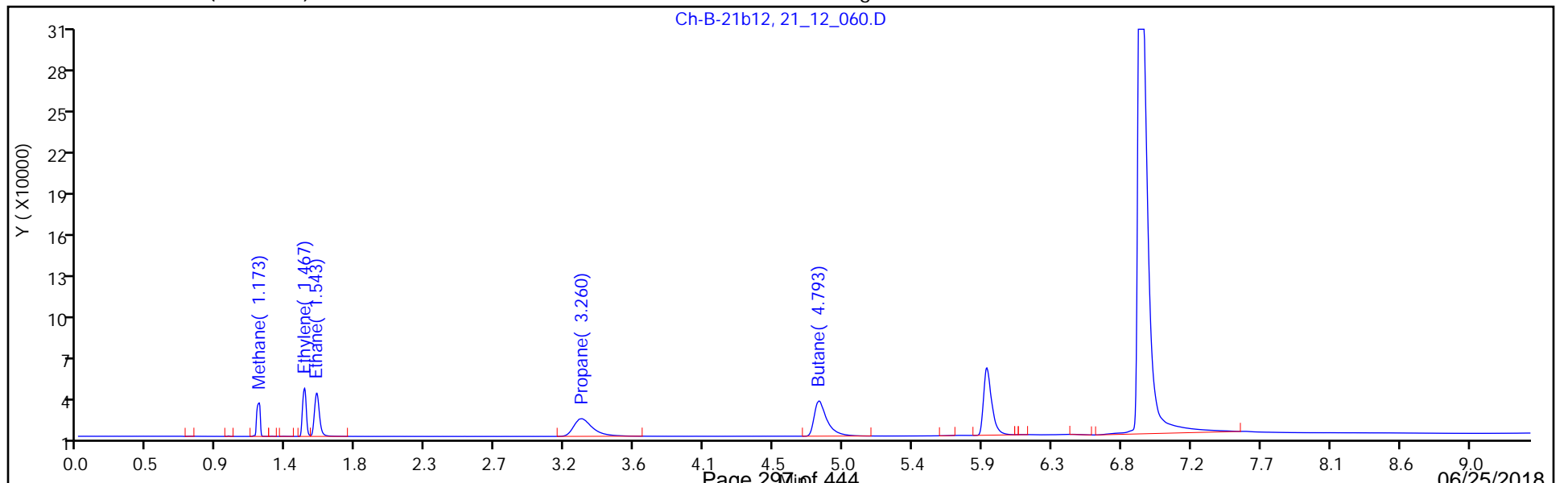
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420316/4
 Matrix: Water Lab File ID: 21_12_044.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 06/19/2018 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_044.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Jun-2018 09:55:06 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 10:26:44

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	1696		-2.23	
2	1.173	1.173	0.000	3111		-2.57	

2 Ethane

1	1.753	1.753	0.000	176		-5.04	
2	1.537	1.547	-0.010	111		-6.08	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_044.D

Injection Date: 19-Jun-2018 09:55:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

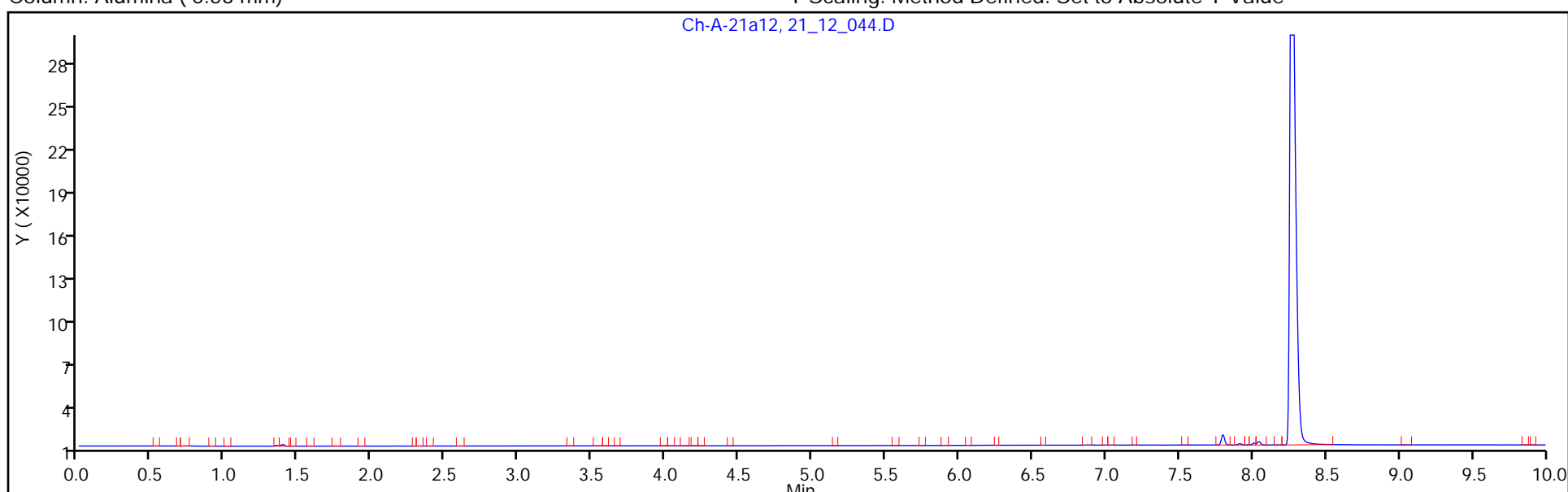
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

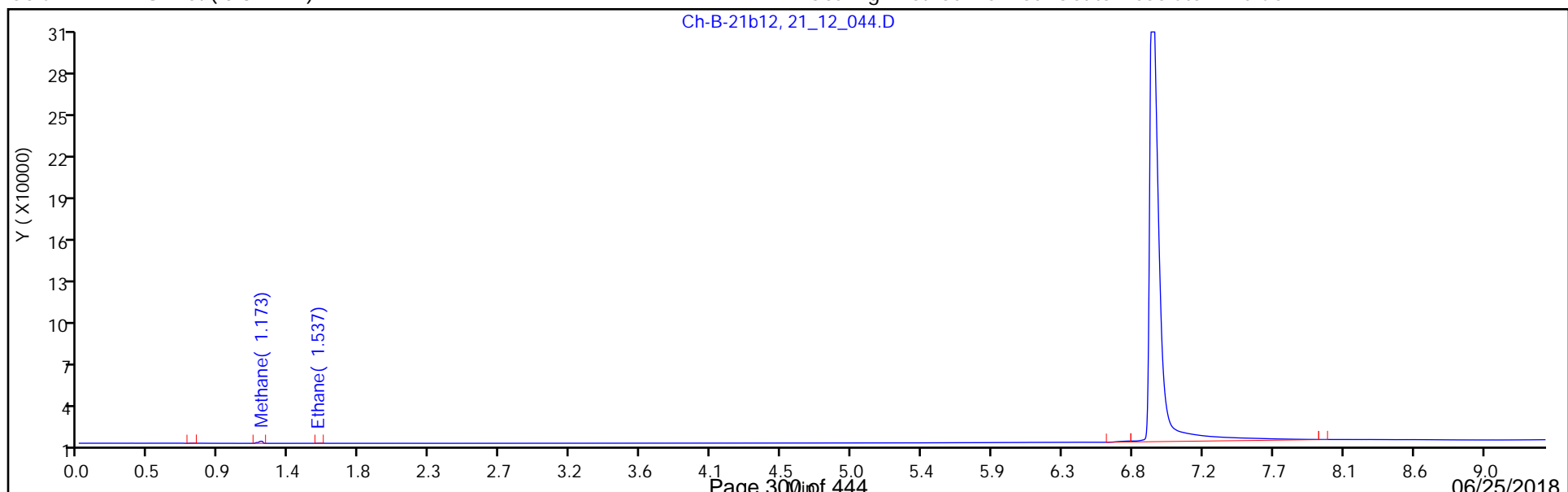
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-420316/5
 Matrix: Water Lab File ID: 21_12_045.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 06/19/2018 10:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	13.1		7.5	1.5
74-85-1	Ethene	12.0		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_045.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Jun-2018 10:12:36 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 11:10:38

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.393	1.393	0.000	15727	7.77	7.63	
2	1.173	1.173	0.000	21751	7.77	8.01	
2 Ethane							
1	1.753	1.753	0.000	27819	14.6	13.1	
2	1.547	1.547	0.000	37384	14.6	13.2	
3 Ethylene							
1	2.437	2.437	0.000	23436	13.6	12.0	
2	1.467	1.467	0.000	30920	13.6	12.0	
4 Propane							
1	3.263	3.263	0.000	42221	21.4	19.2	
2	3.257	3.257	0.000	21665	21.4	4.11	
5 Butane							
1	5.093	5.087	0.006	55686	27.9	25.0	
2	4.797	4.797	0.000	74890	27.9	23.2	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_045.D

Injection Date: 19-Jun-2018 10:12:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

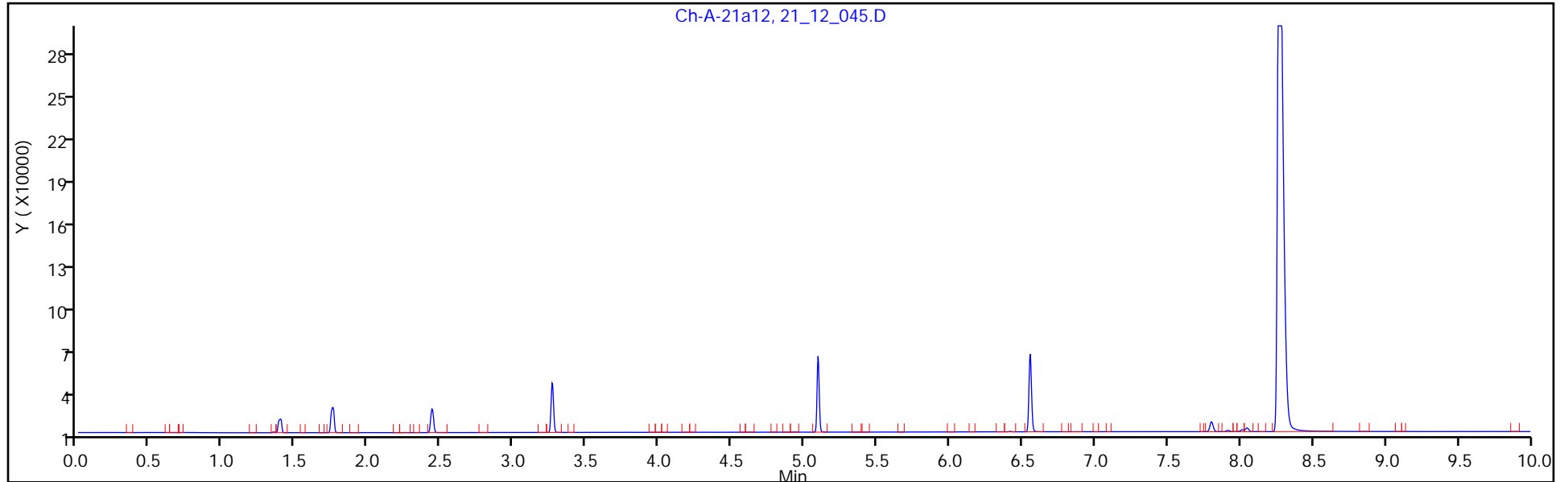
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

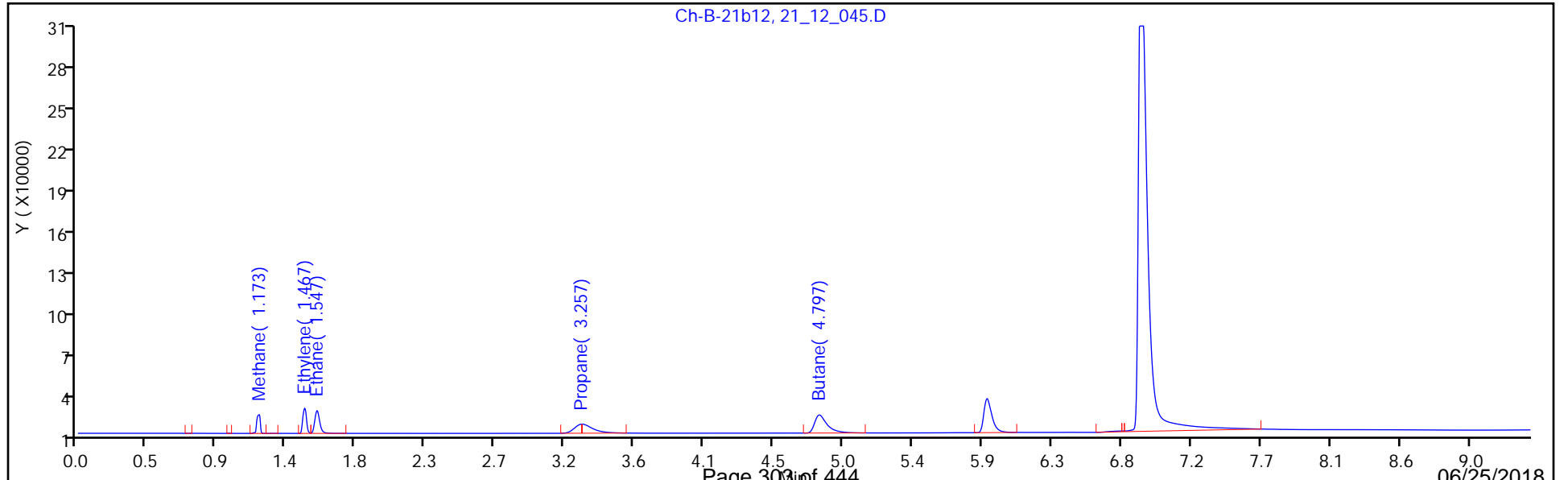
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-420316/6
 Matrix: Water Lab File ID: 21_12_046.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 10:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	13.8		7.5	1.5
74-85-1	Ethene	12.8		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_046.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 19-Jun-2018 10:30:06 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	16314	7.77	8.04	
2	1.173	1.173	0.000	22501	7.77	8.43	
2 Ethane							
1	1.753	1.753	0.000	28995	14.6	13.8	
2	1.547	1.547	0.000	38812	14.6	14.0	
3 Ethylene							
1	2.440	2.437	0.003	24516	13.6	12.8	
2	1.467	1.467	0.000	32368	13.6	12.8	
4 Propane							
1	3.267	3.263	0.004	44062	21.4	20.4	
2	3.263	3.257	0.006	58365	21.4	19.2	
5 Butane							
1	5.097	5.087	0.010	58571	27.9	26.6	
2	4.793	4.797	-0.004	78536	27.9	24.7	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_046.D

Injection Date: 19-Jun-2018 10:30:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

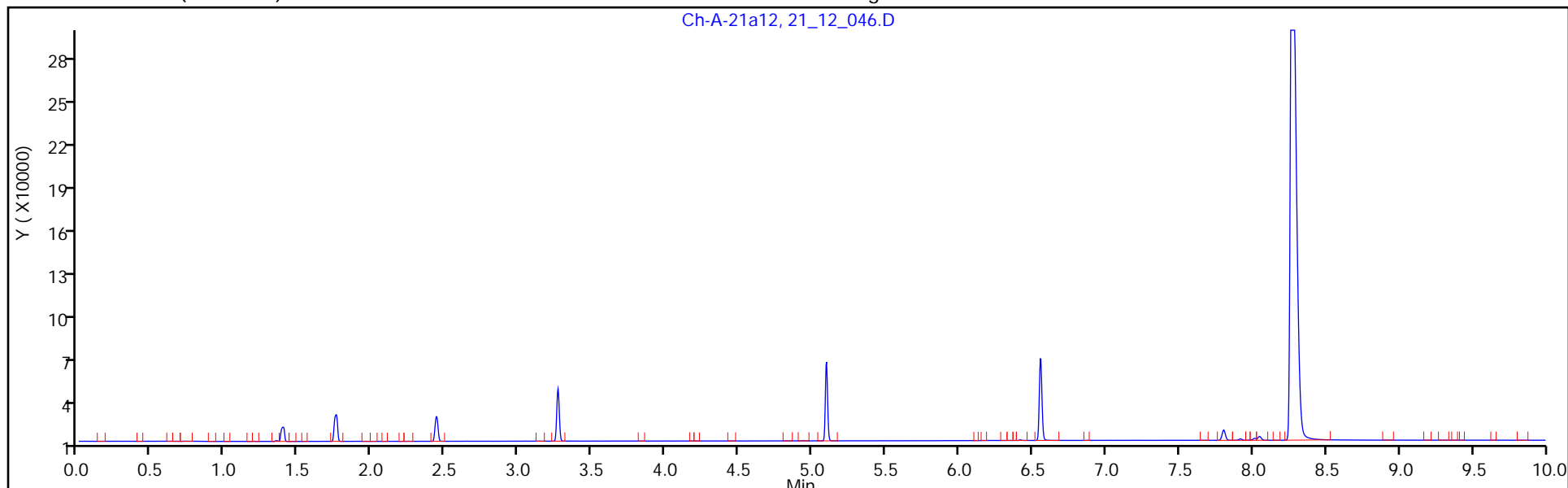
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

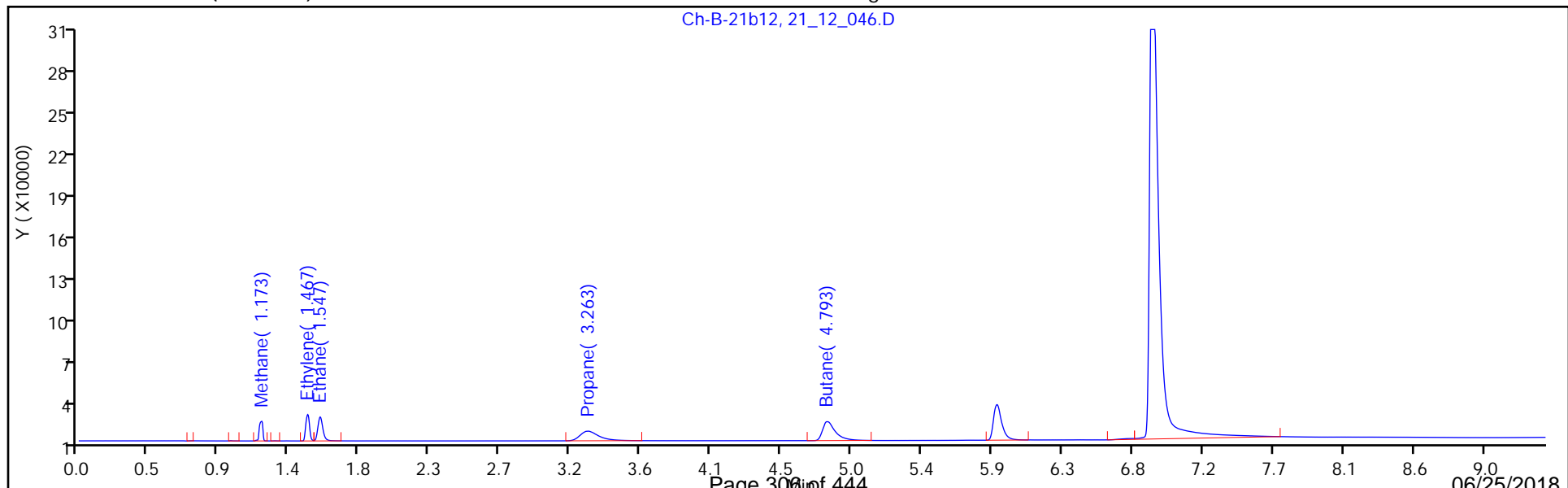
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Instrument ID: HP5890-21 Start Date: 09/12/2017 08:34

Analysis Batch Number: 376268 End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137527-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 06/19/2018 09:02Analysis Batch Number: 420316End Date: 06/19/2018 15:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/19/2018 09:02	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:02	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 09:20	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:20	1		RTX-U Plot 0.32 (mm)
CCV 480-420316/3		06/19/2018 09:37	1	21_12_043.D	Alumina 0.53 (mm)
CCV 480-420316/3		06/19/2018 09:37	1		RTX-U Plot 0.32 (mm)
MB 480-420316/4		06/19/2018 09:55	1	21_12_044.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:55	1		RTX-U Plot 0.32 (mm)
LCS 480-420316/5		06/19/2018 10:12	1	21_12_045.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 10:12	1		RTX-U Plot 0.32 (mm)
LCSD 480-420316/6		06/19/2018 10:30	1	21_12_046.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 10:30	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 11:36	44		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 11:36	44		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 11:54	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 11:54	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:11	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:11	22		RTX-U Plot 0.32 (mm)
480-137527-2		06/19/2018 12:29	1	21_12_050.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:29	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:46	44		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:46	44		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:04	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:04	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:21	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:21	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:39	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:39	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:56	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:56	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:14	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:14	1		RTX-U Plot 0.32 (mm)
480-137527-1		06/19/2018 14:31	11	21_12_057.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:31	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:49	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:49	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 15:06	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 15:06	11		RTX-U Plot 0.32 (mm)
CCV 480-420316/20		06/19/2018 15:33	1	21_12_060.D	Alumina 0.53 (mm)
CCV 480-420316/20		06/19/2018 15:33	1		RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1

SDG No.: _____

Project: Former Emerson Street Landfill Project

Client Sample ID	Lab Sample ID
<u>ML-7-I</u>	<u>480-137527-1</u>
<u>ML-7-D</u>	<u>480-137527-2</u>

Comments:

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-7-I

Lab Sample ID: 480-137527-1

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2018 10:05

Reporting Basis: WET

Date Received: 06/15/2018 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	933	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: ML-7-D

Lab Sample ID: 480-137527-2

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2018 14:05

Reporting Basis: WET

Date Received: 06/15/2018 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	0.086	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	9.7	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	796	10.0	5.6	mg/L			20	9056A
14808-79-8	Sulfate	868	40.0	7.0	mg/L			20	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Analyst: DCB Batch Start Date: 06/15/2018
 Reporting Units: mg/L Analytical Batch No.: 419956

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:28	Nitrite	1.42	1.50	95	90-110		Nitrite CCV_00879
2	CCB	20:29	Nitrite	ND					
13	CCV	20:41	Nitrite	1.41	1.50	94	90-110		Nitrite CCV_00879
14	CCB	20:42	Nitrite	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Analyst: MJB Batch Start Date: 06/21/2018

Reporting Units: mg/L Analytical Batch No.: 420855

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:44	Sulfide	10.00	10.0	100	90-110		Sulfide CCV_00238
2	CCB	10:44	Sulfide	ND					
13	CCV	10:44	Sulfide	10.00	10.0	100	90-110		Sulfide CCV_00238
14	CCB	10:44	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Analyst: DMR Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 420962

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:30	Chloride	50.54	50.0	101	90-110		IC_ANION_LCS__0020 7
			Sulfate	51.24	50.0	102	90-110		IC_ANION_LCS__0020 7
2	CCB	20:38	Chloride	ND					
			Sulfate	ND					
13	CCV	22:08	Chloride	51.17	50.0	102	90-110		IC_ANION_LCS__0020 7
			Sulfate	51.40	50.0	103	90-110		IC_ANION_LCS__0020 7
14	CCB	22:16	Chloride	ND					
			Sulfate	ND					
25	CCV	23:46	Chloride	51.16	50.0	102	90-110		IC_ANION_LCS__0020 7
			Sulfate	51.01	50.0	102	90-110		IC_ANION_LCS__0020 7
26	CCB	23:54	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 06/18/2018
 Reporting Units: mg/L Analytical Batch No.: 420230

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:00	Ferrous Iron	1.79	2.00	90	90-110		FE 200ppm ICV 00022
2	CCB	13:00	Ferrous Iron	ND					
13	CCV	13:00	Ferrous Iron	2.11	2.00	105	90-110		FE 200ppm ICV 00022
14	CCB	13:00	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 419956 Date: 06/15/2018 20:30							
353.2	MB 480-419956/3	Nitrite	ND		mg/L as N	0.050	1
Batch ID: 420962 Date: 06/21/2018 20:55							
9056A	MB 480-420962/4	Chloride	ND		mg/L	0.50	1
9056A	MB 480-420962/4	Sulfate	ND		mg/L	2.0	1
Batch ID: 420230 Date: 06/18/2018 13:00							
SM 3500 FE D	MB 480-420230/3	Ferrous Iron	ND		mg/L	0.10	1
Batch ID: 420855 Date: 06/21/2018 10:44							
SM 4500 S2 F	MB 480-420855/3	Sulfide	ND		mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420230 Date: 06/18/2018 13:00											
SM 3500	480-137527-2	Ferrous Iron	ND		mg/L						HF
FE D											
SM 3500	480-137527-2	Ferrous Iron	0.975		mg/L	1.00	97	70-130			
FE D	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 419956 Date: 06/15/2018 20:31											
LCS Source: Nitrite CCV_00879											
353.2	LCS 480-419956/4	Nitrite	1.40		mg/L as N	1.50	93	90-110			
Batch ID: 420962 Date: 06/21/2018 20:46											
LCS Source: IC_ANION_LCS__00207											
9056A	LCS 480-420962/3	Chloride	50.62		mg/L	50.0	101	90-110			
9056A	LCS 480-420962/3	Sulfate	51.34		mg/L	50.0	103	90-110			
Batch ID: 420230 Date: 06/18/2018 13:00											
LCS Source: FE 200ppm ICV_00022											
SM 3500 FE D	LCS 480-420230/4	Ferrous Iron	1.88		mg/L	2.00	94	90-110			
Batch ID: 420855 Date: 06/21/2018 10:44											
LCS Source: Sulfide LCS_00238											
SM 4500 S2 F	LCS 480-420855/4	Sulfide	8.80		mg/L	9.20	96	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137527-1

SDG Number: _____

Matrix: Water

Instrument ID: LCHAT3

Method: 353.2

MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrite		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrite		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137527-1

SDG Number: _____

Matrix: Water

Instrument ID: NOEQUIP

Method: SM 4500 S2 F

MDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.67

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F XMDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		1	0.67

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137527-1

SDG Number: _____

Matrix: Water

Instrument ID: LCHAT3

Method: 353.2

MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: IC-2
Method: 9056A MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: IC-2
Method: 9056A XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D MDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.075

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137527-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/15/2018 18:44 End Date: 06/15/2018 19:47

Lab Sample ID	D / F	Type	Time	Analytes															
				N	O	2	-	N											
ZZZZZZ			18:44																
ZZZZZZ			18:49																
ZZZZZZ			18:50																
ZZZZZZ			18:51																
ZZZZZZ			18:57																
ZZZZZZ			18:58																
ZZZZZZ			18:59																
ZZZZZZ			19:00																
ZZZZZZ			19:01																
ZZZZZZ			19:03																
ZZZZZZ			19:05																
ZZZZZZ			19:12																
480-137527-1	1	T	19:15	X															
ZZZZZZ			19:17																
ZZZZZZ			19:19																
ZZZZZZ			19:20																
ZZZZZZ			19:27																
ZZZZZZ			19:28																
ZZZZZZ			19:29																
ZZZZZZ			19:30																
ZZZZZZ			19:31																
ZZZZZZ			19:39																
ZZZZZZ			19:43																
ZZZZZZ			19:45																
ZZZZZZ			19:46																
ZZZZZZ			19:47																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/15/2018 20:28 End Date: 06/15/2018 20:51

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 2 -N															
CCV 480-419956/1	1		20:28	X															
CCB 480-419956/2	1		20:29	X															
MB 480-419956/3	1	T	20:30	X															
LCS 480-419956/4	1	T	20:31	X															
ZZZZZZ			20:32																
ZZZZZZ			20:33																
ZZZZZZ			20:35																
ZZZZZZ			20:36																
ZZZZZZ			20:37																
ZZZZZZ			20:38																
ZZZZZZ			20:39																
480-137527-2	1	T	20:40	X															
CCV 480-419956/13	1		20:41	X															
CCB 480-419956/14	1		20:42	X															
ZZZZZZ			20:43																
ZZZZZZ			20:45																
ZZZZZZ			20:46																
ZZZZZZ			20:47																
ZZZZZZ			20:48																
ZZZZZZ			20:49																
CCV 480-419956/21			20:50																
CCB 480-419956/22			20:51																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 4500 S2 F

Start Date: 06/21/2018 10:44 End Date: 06/21/2018 10:44

Lab Sample ID	D / F	Type	Time	Analytes																			
				S	2																		
CCV 480-420855/1	1		10:44	X																			
CCB 480-420855/2	1		10:44	X																			
MB 480-420855/3	1	T	10:44	X																			
LCS 480-420855/4	1	T	10:44	X																			
480-137527-1	1	T	10:44	X																			
480-137527-2	1	T	10:44	X																			
ZZZZZZ			10:44																				
ZZZZZZ			10:44																				
ZZZZZZ			10:44																				
ZZZZZZ			10:44																				
ZZZZZZ			10:44																				
ZZZZZZ			10:44																				
CCV 480-420855/13	1		10:44	X																			
CCB 480-420855/14	1		10:44	X																			
ZZZZZZ			10:44																				
CCV 480-420855/16			10:44																				
CCB 480-420855/17			10:44																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/15/2018 18:44 End Date: 06/15/2018 20:48

Lab Sample ID	D / F	Type	Time	Analytes															
				N O 3															
ZZZZZZ			18:44																
ZZZZZZ			18:49																
ZZZZZZ			18:50																
ZZZZZZ			18:51																
ZZZZZZ			18:57																
ZZZZZZ			18:58																
ZZZZZZ			18:59																
ZZZZZZ			19:00																
ZZZZZZ			19:01																
ZZZZZZ			19:03																
ZZZZZZ			19:05																
ZZZZZZ			19:12																
480-137527-1	1	T	19:15	X															
ZZZZZZ			19:17																
ZZZZZZ			19:19																
ZZZZZZ			19:20																
ZZZZZZ			19:27																
ZZZZZZ			19:28																
ZZZZZZ			19:29																
ZZZZZZ			19:30																
ZZZZZZ			19:31																
ZZZZZZ			19:39																
ZZZZZZ			19:43																
ZZZZZZ			19:45																
ZZZZZZ			19:46																
ZZZZZZ			19:47																
ZZZZZZ			20:32																
ZZZZZZ			20:36																
ZZZZZZ			20:37																
ZZZZZZ			20:38																
ZZZZZZ			20:39																
480-137527-2	1	T	20:40	X															
ZZZZZZ			20:43																
ZZZZZZ			20:45																
ZZZZZZ			20:46																
ZZZZZZ			20:47																
ZZZZZZ			20:48																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Instrument ID: IC-2 Method: 9056A

Start Date: 06/21/2018 20:30 End Date: 06/22/2018 03:09

Lab Sample ID	D / F	T y p e	Time	Analytes															
				C L -	S O 4														
CCV 480-420962/1	1		20:30	X	X														
CCB 480-420962/2	1		20:38	X	X														
LCS 480-420962/3	1	T	20:46	X	X														
MB 480-420962/4	1	T	20:55	X	X														
ZZZZZZ			21:11																
ZZZZZZ			21:19																
ZZZZZZ			21:43																
ZZZZZZ			21:52																
ZZZZZZ			22:00																
CCV 480-420962/13	1		22:08	X	X														
CCB 480-420962/14	1		22:16	X	X														
480-137527-1	10	T	22:57	X	X														
480-137527-2	20	T	23:05	X	X														
ZZZZZZ			23:29																
ZZZZZZ			23:38																
CCV 480-420962/25	1		23:46	X	X														
CCB 480-420962/26	1		23:54	X	X														
ZZZZZZ			00:02																
ZZZZZZ			00:10																
CCV 480-420962/37			01:23																
CCB 480-420962/38			01:32																
CCV 480-420962/49			03:01																
CCB 480-420962/50			03:09																

Prep Types
T = Total/NA

419953 419956 419962 419963

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

	<u>Solutions #</u>	
Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 08/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4263342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD(MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4713322	Exp. 06/16/2018
Nitrite 1.5ppm CCV/ICV/LCS	4713323	Exp. 06/16/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
 (1.35 mg/L ~1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%

RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up to 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 6/15/18

NO₃ 419953

Original Run Filename: OM_6-15-2018_06-38-03PM.OMN Created: 6/15/2018 6:38:03 PM
 Original Run Author's Signature: [BuFLachat3]
 Current Run Filename: OM_6-15-2018_06-38-03PM.OMN Last Modified: 6/15/2018 8:00:41 PM
 Current Run Author's Signature: [BuFLachat3]
 Description: Default New Run

DB
6/15/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.45	4.24	0.335	6/15/2018@6:38:08 PM	
		Calibration:	Table/Fig. : 1				
CCV	1	S9	1.48	4.34	0.342	6/15/2018@6:40:18 PM	
		Known Conc:	1.50				
CCB	1	S10	0.0134	-0.131	-9.20e-3	6/15/2018@6:41:25 PM	
		Known Conc:	0.00				
MB	1	S10	6.66e-3	-0.151	-0.0101	6/15/2018@6:42:33 PM	
		Known Conc:	0.00				
LCS	1	S9	1.49	4.35	0.343	6/15/2018@6:43:41 PM	
		Known Conc:	1.50				
480-137480-I-1	1	1	0.0110	-0.138	-9.25e-3	6/15/2018@6:44:51 PM	
480-137480-I-1 DU	1	2	0.0124	-0.134	-9.11e-3	6/15/2018@6:46:00 PM	
480-137480-I-1 MS	1	3	0.969	2.77	0.219	6/15/2018@6:47:09 PM	
480-137480-L-2	1	4	0.356	0.910	0.0729	6/15/2018@6:48:18 PM	
480-137480-L-3	1	5	0.0189	-0.114	-8.78e-3	6/15/2018@6:49:27 PM	
480-137480-L-4	1	6	0.0146	-0.127	-8.38e-3	6/15/2018@6:50:36 PM	
480-137480-I-5	1	7	0.0290	-0.0834	-4.97e-3	6/15/2018@6:51:45 PM	
480-137480-I-6	1	8	0.0546	-5.38e-3	2.28e-3	6/15/2018@6:52:53 PM	
CCV	1	S9	1.47	4.29	0.338	6/15/2018@6:54:01 PM	
		Known Conc:	1.50				
CCB	1	S10	8.79e-3	-0.145	-9.55e-3	6/15/2018@6:55:10 PM	
		Known Conc:	0.00				
480-137480-I-7	1	9	0.0617	0.0160	2.40e-3	6/15/2018@6:56:18 PM	
480-137480-I-8	1	10	0.0147	-0.127	-9.25e-3	6/15/2018@6:57:27 PM	
480-137480-I-9	1	11	0.0205	-0.109	-7.33e-3	6/15/2018@6:58:35 PM	
480-137480-I-10	1	12	0.0183	-0.116	-7.95e-3	6/15/2018@6:59:43 PM	
480-137480-I-11	1	13	4.95e-3	-0.166	-0.0103	6/15/2018@7:00:51 PM	
480-137483-d-1	1	14	-4.86e-3	-0.186	-0.0104	6/15/2018@7:01:59 PM	
480-137484-I-1	1	15	6.12e-3	-0.153	-9.98e-3	6/15/2018@7:03:06 PM	
480-137484-I-2	1	16	0.0671	0.0326	4.06e-3	6/15/2018@7:04:16 PM	
480-137484-I-3	1	17	5.75e-3	-0.164	-9.95e-3	6/15/2018@7:05:25 PM	
480-137484-I-3 MS	1	18	0.989	2.78	0.217	6/15/2018@7:06:34 PM	
CCV	1	S9	1.46	4.27	0.338	6/15/2018@7:07:42 PM	
		Known Conc:	1.50				
CCB	1	S10	9.21e-3	-0.143	-9.63e-3	6/15/2018@7:08:51 PM	
		Known Conc:	0.00				
MB	1	S10	0.0106	-0.139	-9.59e-3	6/15/2018@7:09:59 PM	
		Known Conc:	0.00				
LCS	1	S9	1.44	4.20	0.331	6/15/2018@7:11:07 PM	
		Known Conc:	1.50				
480-137484-I-4	1	19	0.0137	-0.130	-8.17e-3	6/15/2018@7:12:16 PM	
480-137484-I-4 DU	1	20	9.97e-3	-0.141	-8.20e-3	6/15/2018@7:13:25 PM	
480-137484-I-4 MS	1	21	0.888	2.86	0.228	6/15/2018@7:14:34 PM	
480-137527-d-1	1	22	-8.72e-4	-0.174	-0.0104	6/15/2018@7:15:42 PM	
480-137527-d-2	1	23	9.24	27.9	2.15	6/15/2018@7:16:51 PM	
480-137528-f-1	1	24	0.0106	-0.138	-9.47e-3	6/15/2018@7:17:59 PM	
480-137528-f-2	1	25	0.0221	-0.104	-7.29e-3	6/15/2018@7:19:08 PM	
480-137534-g-1	1	26	0.0149	-0.125	-8.33e-3	6/15/2018@7:20:16 PM	
CCV	1	S9	1.43	4.17	0.328	6/15/2018@7:21:24 PM	
		Known Conc:	1.50				
CCB	1	S10	6.44e-3	-0.152	-0.0102	6/15/2018@7:22:32 PM	
		Known Conc:	0.00				
480-137504-d-1^10	1	27	2.03	6.99	0.471	6/15/2018@7:23:40 PM	
480-137531-e-2	1	28	0.109	0.159	0.0114	6/15/2018@7:24:49 PM	
480-137531-e-3	1	29	0.0681	0.0355	3.76e-3	6/15/2018@7:25:56 PM	
480-137531-e-4	1	30	0.0194	-0.113	-7.55e-3	6/15/2018@7:27:04 PM	
480-137531-e-5	1	31	0.0472	-0.0281	-1.94e-3	6/15/2018@7:28:14 PM	
480-137531-e-6	1	32	9.41e-3	-0.143	-9.88e-3	6/15/2018@7:29:23 PM	

500 → SMC

480-137531-e-7	1	33	9.17e-3	-0.144	-9.71e-3	6/15/2018@7:30:32 PM
480-137531-e-8	1	34	0.0428	-0.0415	-2.22e-3	6/15/2018@7:31:41 PM
480-137531-e-9	1	35	0.0613	-0.0154	-1.57e-3	6/15/2018@7:32:50 PM
480-137531-e-9 MS	1	36	1.03	2.96	0.233	6/15/2018@7:33:59 PM
CCV	1	S9	1.48	4.32	0.338	6/15/2018@7:35:06 PM
		Known Conc:	1.50			
CCB	1	S10	9.89e-3	-0.141	-9.81e-3	6/15/2018@7:36:15 PM
		Known Conc:	0.00			
MB	1	S10	4.09e-3	-0.159	-0.0104	6/15/2018@7:37:23 PM
		Known Conc:	0.00			
LCS	1	S9	1.44	4.20	0.330	6/15/2018@7:38:31 PM
		Known Conc:	1.50			
480-137509-b-1	1	37	0.0252	-0.0950	-5.40e-3	6/15/2018@7:39:40 PM
480-137509-b-1 DU	1	38	0.0526	-0.0114	-1.99e-3	6/15/2018@7:40:49 PM
480-137509-b-1 MS	1	38	1.00	2.87	0.228	6/15/2018@7:41:57 PM
480-137509-b-2	1	40	0.0158	-0.123	-7.93e-3	6/15/2018@7:43:05 PM
480-137509-b-3	1	41	0.0786	0.0674	7.09e-3	6/15/2018@7:44:14 PM
480-137509-b-4	1	42	0.0498	-0.0201	-1.39e-3	6/15/2018@7:45:22 PM
480-137509-b-5	1	43	0.0244	-0.0972	-6.96e-3	6/15/2018@7:46:30 PM
480-137509-b-6	1	44	6.47e-3	-0.162	-0.0105	6/15/2018@7:47:38 PM
CCV	1	S9	1.48	4.33	0.342	6/15/2018@7:48:46 PM
		Known Conc:	1.50			
CCB	1	S10	0.0163	-0.122	-8.81e-3	6/15/2018@7:49:54 PM
		Known Conc:	0.00			
480-137509-b-7	1	45	0.188	0.401	0.0335	6/15/2018@7:51:02 PM
480-137509-b-7 MS	1	46	1.16	3.37	0.287	6/15/2018@7:52:12 PM
480-137527-d-2*10	1	47	0.977	2.90	0.222	6/15/2018@7:53:21 PM
480-137531-e-9 2	1	48	0.0498	-0.0200	-2.37e-3	6/15/2018@7:54:30 PM
480-137531-e-9 3	1	48	0.0511	-0.0162	-2.82e-3	6/15/2018@7:55:39 PM
480-137531-e-2 4	1	50	0.120	0.193	0.0146	6/15/2018@7:56:47 PM
CCV	1	S9	1.47	4.29	0.339	6/15/2018@7:57:55 PM
		Known Conc:	1.50			
CCB	1	S10	4.18e-3	-0.159	-0.0103	6/15/2018@7:59:04 PM
		Known Conc:	0.00			

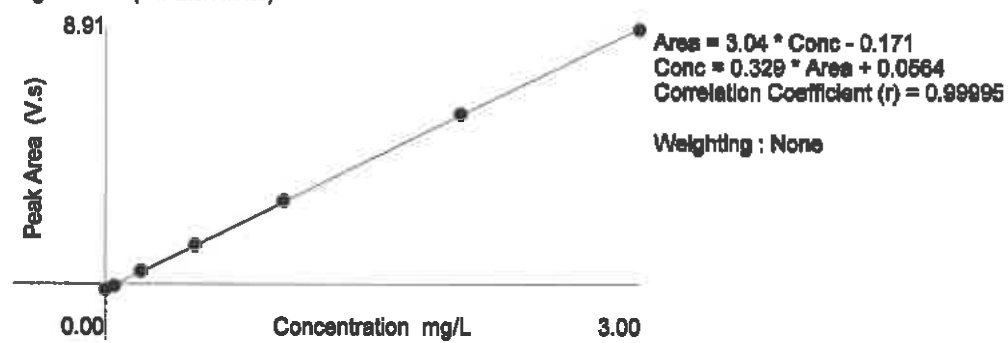
Analyte Properties Table for : OM_6-15-2018_06-36-03PM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.91	0.699	0.0	0.4	2.99	6/15/2018	6:23:19 PM
2	2.00	1	5.94	0.468	0.0	-0.6	2.01	6/15/2018	6:24:27 PM
3	1.00	1	2.91	0.231	0.0	-1.5	1.01	6/15/2018	6:26:36 PM
4	0.500	1	1.37	0.110	0.0	-1.6	0.507	6/15/2018	6:26:45 PM
5	0.200	1	0.452	0.0363	0.0	-3.4	0.205	6/15/2018	6:27:54 PM
6	0.0500	1	-0.0638	-2.94e-3	0.0	-231.8	0.0355	6/15/2018	6:28:04 PM
7	0.00	1	-0.199	-0.0116			-9.05e-3	6/15/2018	6:30:12 PM

Figure : 1 (Nitrate/Nitrite)



No 419956

Original Run Filename: OM_6-15-2018_08-27-19PM.OMN Created: 6/15/2018 8:27:19 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_6-15-2018_08-27-19PM.OMN Last Modified: 6/15/2018 8:52:55 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

DB
6/15/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.42	4.62	0.485	6/15/2018@8:28:24 PM	
		Known Conc:	100				
		Calibration: Table/Fit: 1					
CCB	1	S10	-0.0114	-0.134	-8.82e-3	6/15/2018@8:29:30 PM	
		Known Conc:	100				
MB	1	S10	-0.0107	-0.132	-8.56e-3	6/15/2018@8:30:36 PM	
		Known Conc:	100				
LCS	1	S11	1.40	4.66	0.478	6/15/2018@8:31:43 PM	
		Known Conc:	100				
480-137504-d-1	1	1	0.109	0.334	0.0326	6/15/2018@8:32:50 PM	
480-137504-d-1 DU	1	2	0.116	0.333	0.0352	6/15/2018@8:33:57 PM	
480-137504-d-1 MS	1	3	1.12	3.62	0.381	6/15/2018@8:35:04 PM	
480-137480-l-2	1	4	-0.0105	-0.151	-8.50e-3	6/15/2018@8:36:10 PM	
480-137480-l-6	1	5	-0.0109	-0.126	-8.63e-3	6/15/2018@8:37:17 PM	
480-137480-l-7	1	6	1.37e-3	-0.0847	-4.41e-3	6/15/2018@8:38:23 PM	
480-137484-l-2	1	7	-9.84e-3	-0.120	-8.27e-3	6/15/2018@8:39:30 PM	
480-137527-d-2	1	8	0.0857	0.240	0.0247	6/15/2018@8:40:36 PM	
CCV	1	S11	1.41	4.55	0.483	6/15/2018@8:41:43 PM	
		Known Conc:	100				
CCB	1	S10	-0.0119	-0.143	-8.97e-3	6/15/2018@8:42:49 PM	
		Known Conc:	100				
480-137531-e-2	1	9	0.0283	-0.0283	4.19e-3	6/15/2018@8:43:56 PM	
480-137531-e-3	1	10	-2.01e-3	-0.0580	-5.57e-3	6/15/2018@8:45:01 PM	
480-137531-e-9	1	11	-9.47e-3	-0.122	-8.15e-3	6/15/2018@8:46:07 PM	
480-137509-b-3	1	12	-9.86e-3	-0.137	-8.21e-3	6/15/2018@8:47:13 PM	
480-137509-b-7	1	13	-6.87e-3	-0.137	-7.94e-3	6/15/2018@8:48:19 PM	
480-137509-b-7 MS	1	14	0.897	2.75	0.304	6/15/2018@8:49:24 PM	
CCV	1	S11	1.43	4.68	0.487	6/15/2018@8:50:30 PM	
		Known Conc:	100				
CCB	1	S10	-9.58e-3	-0.137	-8.18e-3	6/15/2018@8:51:36 PM	
		Known Conc:	100				

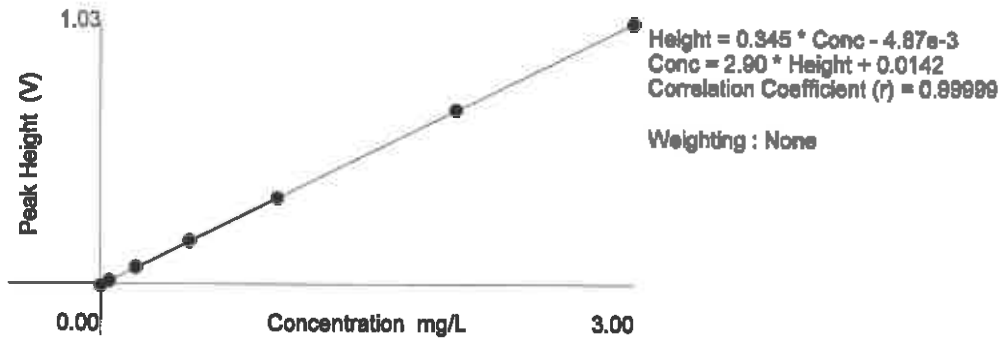
Analyte Properties Table for : OM_6-15-2018_08-27-19PM.OMN

Property	Channel 2 Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.42	1.03	0.0	0.2	2.99	6/15/2018	8:06:03 PM
2	2.00	1	6.31	0.687	0.0	-0.4	2.01	6/15/2018	8:06:09 PM
3	1.00	1	3.14	0.339	0.0	0.1	0.999	6/15/2018	8:07:16 PM
4	0.500	1	1.54	0.168	0.0	-0.6	0.503	6/15/2018	8:08:22 PM
5	0.200	1	0.595	0.0650	0.0	-1.4	0.203	6/15/2018	8:09:30 PM
6	0.0600	1	0.118	0.0128	0.0	-3.1	0.0511	6/15/2018	8:10:36 PM
7	0.00	1	-0.124	-7.55e-3			-7.75e-3	6/15/2018	8:11:43 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 419853

Data										
Lab Sample ID	Client Sample	Method	Analyte	Prop Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-137480-I-1	B11D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-10	MW20R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-11	01FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-5	MW12D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.061	<input type="checkbox"/> 0-0.066
480-137480-I-6	MW17D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.055	<input type="checkbox"/> 0-0.093	<input type="checkbox"/> 0-0.1
480-137480-I-7	MW17S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.062	<input type="checkbox"/> 0-0.32	<input type="checkbox"/> 0-0.264
480-137480-L-2	B11S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.36	<input type="checkbox"/> 0-0.691	<input type="checkbox"/> 0-0.732
480-137480-L-3	B15D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.193	<input type="checkbox"/> 0-0.192
480-137480-L-4	B15S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-8	MW19D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-9	MW18S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137483-D-1	POND01	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-1	FIELD BLANK	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-2	MWBA-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	0.067	<input type="checkbox"/> 0-0.386	<input type="checkbox"/> 0-0.348
480-137484-I-3	MWBA-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	ND	<input type="checkbox"/> 0-1.794	<input type="checkbox"/> 0-1.92
480-137484-I-4	MW-O(1)	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	ND	<input type="checkbox"/> 0-0.083	<input type="checkbox"/> 0-0.088
480-137504-D-1	EFFLUENT	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	10.0	20	<input type="checkbox"/> 7.288 - 28.712	<input type="checkbox"/> 11.2 - 31.2
480-137528-F-1	MW-109R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.109	<input type="checkbox"/> 0-0.118
480-137528-F-2	MW-114R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-2	MW-10R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.110, 120	<input checked="" type="checkbox"/> 0-0.097	<input checked="" type="checkbox"/> 0-0.104 confirmed same batch
480-137531-E-3	MW-10S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.068	<input type="checkbox"/> 0-0.101	<input type="checkbox"/> 0-0.082
480-137531-E-4	MW-14R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.145	<input type="checkbox"/> 0-0.156
480-137531-E-5	MW-20R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-6	MW-20S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-7	MW-7R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.123	<input type="checkbox"/> 0-0.132
480-137531-E-8	SW-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.304	<input type="checkbox"/> 0-3.6
480-137531-E-9	SW-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.051, 0.0311	<input checked="" type="checkbox"/> 0-0	<input checked="" type="checkbox"/> 0-0 confirmed same batch
480-137534-G-1	INFLUENT	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

Historical Data Summary Report

For Batch 419956

Lab Sample ID	Client Sample	Method	Analyte	Data				Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution		
480-137480-I-8	MW17D	353.2_Nitrite Nitrogen, Nitrite	Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0
480-137480-I-7	MW17S	353.2_Nitrite Nitrogen, Nitrite	Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0
480-137480-L-2	B11S	353.2_Nitrite Nitrogen, Nitrite	Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0
480-137484-I-2	MWBA-1	353.2_Nitrite Nitrite as N	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	<input type="checkbox"/> 0-0
480-137504-D-1	EFFLUENT	353.2_Nitrite Nitrite as N	Nitrite as N	Total/NA	mg/L	8	1.0	0.11	<input type="checkbox"/> 0-0.407
480-137531-E-2	MW-10R	353.2_Nitrite Nitrite as N	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.085
480-137531-E-3	MW-10S	353.2_Nitrite Nitrite as N	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0
480-137531-E-9	SW-5	353.2_Nitrite Nitrite as N	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0

Historical Data Summary Report

For Batch 419962

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fall 3-Sigma Limits	Fall Client Limits
				Prep Type	Unit	Points	Dilution			
480-137480-I-1	B11D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-I-10	MW20R	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-I-11	O1FB	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-I-5	MW12D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-L-3	B15D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-L-4	B15S	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-L-8	MW19D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137480-L-8	MW18S	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137483-D-1	POND01	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137484-I-1	FIELD BLANK	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	0-0	0-0
480-137484-I-3	MWBA-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	0-0	0-0
480-137484-I-4	MW-OX()	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	0-0	0-0
480-137528-F-1	MW-108R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137528-F-2	MW-114R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137531-E-4	MW-14R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137531-E-5	MW-20R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137531-E-6	MW-20S	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137531-E-7	MW-7R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0
480-137531-E-8	SW-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0.269	0-0.276
480-137534-G-1	INFLUENT	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	0-0	0-0

419953 419956 419962 419963

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

	<u>Solutions #</u>	
Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 08/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4263342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD(MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4713322	Exp. 06/16/2018
Nitrite 1.5ppm CCV/ICV/LCS	4713323	Exp. 06/16/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L ~1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%

RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up to 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 6/15/18

NO₃

419953

Original Run Filename: OM_6-15-2018_06-38-03PM.OMN Created: 6/15/2018 6:38:03 PM
Original Run Author's Signature: [BuFLachat3]
Current Run Filename: OM_6-15-2018_06-38-03PM.OMN Last Modified: 6/15/2018 8:00:41 PM
Current Run Author's Signature: [BuFLachat3]
Description: Default New Run

DB
6/15/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.45	4.24	0.335	6/15/2018@6:38:08 PM	
		Calibration:	Table/Fig. : 1				
CCV	1	S9	1.48	4.34	0.342	6/15/2018@6:40:16 PM	
		Known Conc:	1.50				
CCB	1	S10	0.0134	-0.131	-9.20e-3	6/15/2018@6:41:25 PM	
		Known Conc:	0.00				
MB	1	S10	6.66e-3	-0.151	-0.0101	6/15/2018@6:42:33 PM	
		Known Conc:	0.00				
LCS	1	S9	1.49	4.35	0.343	6/15/2018@6:43:41 PM	
		Known Conc:	1.50				
480-137480-I-1	1	1	0.0110	-0.138	-9.25e-3	6/15/2018@6:44:51 PM	
480-137480-I-1 DU	1	2	0.0124	-0.134	-9.11e-3	6/15/2018@6:46:00 PM	
480-137480-I-1 MS	1	3	0.969	2.77	0.219	6/15/2018@6:47:09 PM	
480-137480-L-2	1	4	0.356	0.910	0.0729	6/15/2018@6:48:18 PM	
480-137480-L-3	1	5	0.0189	-0.114	-8.78e-3	6/15/2018@6:49:27 PM	
480-137480-L-4	1	6	0.0146	-0.127	-8.38e-3	6/15/2018@6:50:36 PM	
480-137480-I-5	1	7	0.0290	-0.0834	-4.97e-3	6/15/2018@6:51:45 PM	
480-137480-I-6	1	8	0.0546	-5.38e-3	2.28e-3	6/15/2018@6:52:53 PM	
CCV	1	S9	1.47	4.29	0.338	6/15/2018@6:54:01 PM	
		Known Conc:	1.50				
CCB	1	S10	8.79e-3	-0.145	-9.55e-3	6/15/2018@6:55:10 PM	
		Known Conc:	0.00				
480-137480-I-7	1	9	0.0617	0.0160	2.40e-3	6/15/2018@6:56:18 PM	
480-137480-I-8	1	10	0.0147	-0.127	-9.25e-3	6/15/2018@6:57:27 PM	
480-137480-I-9	1	11	0.0206	-0.109	-7.33e-3	6/15/2018@6:58:35 PM	
480-137480-I-10	1	12	0.0183	-0.116	-7.95e-3	6/15/2018@6:59:43 PM	
480-137480-I-11	1	13	4.95e-3	-0.166	-0.0103	6/15/2018@7:00:51 PM	
480-137483-d-1	1	14	-4.86e-3	-0.186	-0.0104	6/15/2018@7:01:59 PM	
480-137484-I-1	1	15	6.12e-3	-0.153	-9.98e-3	6/15/2018@7:03:06 PM	
480-137484-I-2	1	16	0.0671	0.0326	4.06e-3	6/15/2018@7:04:16 PM	
480-137484-I-3	1	17	5.75e-3	-0.164	-9.95e-3	6/15/2018@7:05:25 PM	
480-137484-I-3 MS	1	18	0.989	2.78	0.217	6/15/2018@7:06:34 PM	
CCV	1	S9	1.46	4.27	0.338	6/15/2018@7:07:42 PM	
		Known Conc:	1.50				
CCB	1	S10	9.21e-3	-0.143	-9.63e-3	6/15/2018@7:08:51 PM	
		Known Conc:	0.00				
MB	1	S10	0.0106	-0.139	-9.59e-3	6/15/2018@7:09:59 PM	
		Known Conc:	0.00				
LCS	1	S9	1.44	4.20	0.331	6/15/2018@7:11:07 PM	
		Known Conc:	1.50				
480-137484-I-4	1	19	0.0137	-0.130	-8.17e-3	6/15/2018@7:12:16 PM	
480-137484-I-4 DU	1	20	9.97e-3	-0.141	-8.20e-3	6/15/2018@7:13:25 PM	
480-137484-I-4 MS	1	21	0.888	2.86	0.228	6/15/2018@7:14:34 PM	
480-137527-d-1	1	22	-8.72e-4	-0.174	-0.0104	6/15/2018@7:15:42 PM	
480-137527-d-2	1	23	9.24	27.9	2.15	6/15/2018@7:16:51 PM	
480-137528-f-1	1	24	0.0106	-0.138	-9.47e-3	6/15/2018@7:17:59 PM	
480-137528-f-2	1	25	0.0221	-0.104	-7.29e-3	6/15/2018@7:19:08 PM	
480-137534-g-1	1	26	0.0149	-0.126	-8.33e-3	6/15/2018@7:20:16 PM	
CCV	1	S9	1.43	4.17	0.328	6/15/2018@7:21:24 PM	
		Known Conc:	1.50				
CCB	1	S10	6.44e-3	-0.152	-0.0102	6/15/2018@7:22:32 PM	
		Known Conc:	0.00				
480-137504-d-1^10	1	27	2.03	6.99	0.471	6/15/2018@7:23:40 PM	
480-137531-e-2	1	28	0.109	0.159	0.0114	6/15/2018@7:24:49 PM	
480-137531-e-3	1	29	0.0681	0.0355	3.76e-3	6/15/2018@7:25:56 PM	
480-137531-e-4	1	30	0.0194	-0.113	-7.56e-3	6/15/2018@7:27:04 PM	
480-137531-e-5	1	31	0.0472	-0.0281	-1.94e-3	6/15/2018@7:28:14 PM	
480-137531-e-6	1	32	9.41e-3	-0.143	-9.88e-3	6/15/2018@7:29:23 PM	

500 → SMC

480-137531-e-7	1	33	9.17e-3	-0.144	-9.71e-3	6/15/2018@7:30:32 PM
480-137531-e-8	1	34	0.0428	-0.0415	-2.22e-3	6/15/2018@7:31:41 PM
480-137531-e-9	1	35	0.0613	-0.0154	-1.57e-3	6/15/2018@7:32:50 PM
480-137531-e-9 MS	1	36	1.03	2.96	0.233	6/15/2018@7:33:59 PM
CCV	1	S9	1.48	4.32	0.338	6/15/2018@7:35:06 PM
		Known Conc:	1.50			
CCB	1	S10	9.89e-3	-0.141	-9.81e-3	6/15/2018@7:36:15 PM
		Known Conc:	0.00			
MB	1	S10	4.09e-3	-0.159	-0.0104	6/15/2018@7:37:23 PM
		Known Conc:	0.00			
LCS	1	S9	1.44	4.20	0.330	6/15/2018@7:38:31 PM
		Known Conc:	1.50			
480-137509-b-1	1	37	0.0252	-0.0950	-5.40e-3	6/15/2018@7:39:40 PM
480-137509-b-1 DU	1	38	0.0526	-0.0114	-1.99e-3	6/15/2018@7:40:49 PM
480-137509-b-1 MS	1	38	1.00	2.87	0.228	6/15/2018@7:41:57 PM
480-137509-b-2	1	40	0.0158	-0.123	-7.93e-3	6/15/2018@7:43:05 PM
480-137509-b-3	1	41	0.0786	0.0674	7.09e-3	6/15/2018@7:44:14 PM
480-137509-b-4	1	42	0.0498	-0.0201	-1.39e-3	6/15/2018@7:45:22 PM
480-137509-b-5	1	43	0.0244	-0.0972	-6.96e-3	6/15/2018@7:46:30 PM
480-137509-b-6	1	44	6.47e-3	-0.162	-0.0105	6/15/2018@7:47:38 PM
CCV	1	S9	1.48	4.33	0.342	6/15/2018@7:48:46 PM
		Known Conc:	1.50			
CCB	1	S10	0.0163	-0.122	-8.81e-3	6/15/2018@7:49:54 PM
		Known Conc:	0.00			
480-137509-b-7	1	45	0.188	0.401	0.0335	6/15/2018@7:51:02 PM
480-137509-b-7 MS	1	46	1.16	3.37	0.287	6/15/2018@7:52:12 PM
480-137527-d-2*10	1	47	0.977	2.90	0.222	6/15/2018@7:53:21 PM
480-137531-e-9 2	1	48	0.0498	-0.0200	-2.37e-3	6/15/2018@7:54:30 PM
480-137531-e-9 3	1	48	0.0511	-0.0162	-2.82e-3	6/15/2018@7:55:39 PM
480-137531-e-2 4	1	50	0.120	0.193	0.0146	6/15/2018@7:56:47 PM
CCV	1	S9	1.47	4.29	0.339	6/15/2018@7:57:55 PM
		Known Conc:	1.50			
CCB	1	S10	4.18e-3	-0.159	-0.0103	6/15/2018@7:59:04 PM
		Known Conc:	0.00			

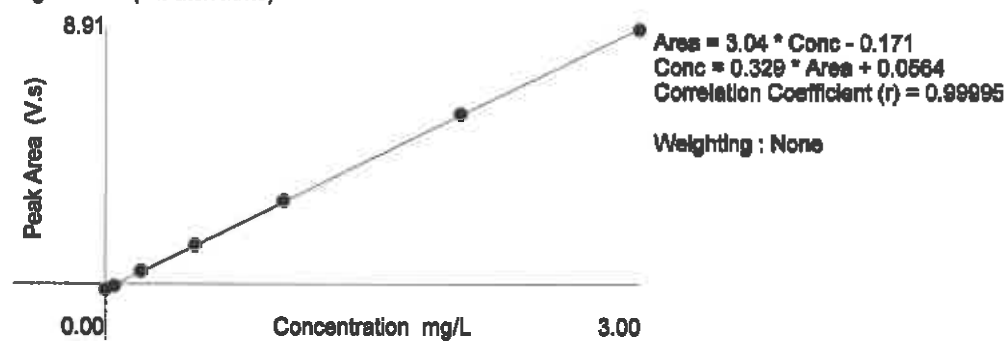
Analyte Properties Table for : OM_6-15-2018_06-36-03PM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.91	0.699	0.0	0.4	2.99	6/15/2018	6:23:19 PM
2	2.00	1	5.94	0.468	0.0	-0.6	2.01	6/15/2018	6:24:27 PM
3	1.00	1	2.91	0.231	0.0	-1.5	1.01	6/15/2018	6:26:36 PM
4	0.500	1	1.37	0.110	0.0	-1.6	0.507	6/15/2018	6:26:45 PM
5	0.200	1	0.452	0.0363	0.0	-3.4	0.205	6/15/2018	6:27:54 PM
6	0.0500	1	-0.0638	-2.94e-3	0.0	-231.8	0.0355	6/15/2018	6:28:04 PM
7	0.00	1	-0.199	-0.0116			-9.05e-3	6/15/2018	6:30:12 PM

Figure : 1 (Nitrate/Nitrite)



No 419956

Original Run Filename: OM_6-15-2018_08-27-19PM.OMN Created: 6/15/2018 8:27:19 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_6-15-2018_08-27-19PM.OMN Last Modified: 6/15/2018 8:52:55 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

DB
6/15/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.42	4.62	0.485	6/15/2018@8:28:24 PM	
		Known Conc:	100				
		Calibration: Table/Fit: 1					
CCB	1	S10	-0.0114	-0.134	-8.82e-3	6/15/2018@8:29:30 PM	
		Known Conc:	100				
MB	1	S10	-0.0107	-0.132	-8.56e-3	6/15/2018@8:30:36 PM	
		Known Conc:	100				
LCS	1	S11	1.40	4.66	0.478	6/15/2018@8:31:43 PM	
		Known Conc:	100				
480-137504-d-1	1	1	0.109	0.334	0.0326	6/15/2018@8:32:50 PM	
480-137504-d-1 DU	1	2	0.116	0.333	0.0352	6/15/2018@8:33:57 PM	
480-137504-d-1 MS	1	3	1.12	3.62	0.381	6/15/2018@8:35:04 PM	
480-137480-l-2	1	4	-0.0105	-0.151	-8.50e-3	6/15/2018@8:36:10 PM	
480-137480-l-6	1	5	-0.0109	-0.126	-8.63e-3	6/15/2018@8:37:17 PM	
480-137480-l-7	1	6	1.37e-3	-0.0847	-4.41e-3	6/15/2018@8:38:23 PM	
480-137484-l-2	1	7	-9.84e-3	-0.120	-8.27e-3	6/15/2018@8:39:30 PM	
480-137527-d-2	1	8	0.0857	0.240	0.0247	6/15/2018@8:40:36 PM	
CCV	1	S11	1.41	4.55	0.483	6/15/2018@8:41:43 PM	
		Known Conc:	100				
CCB	1	S10	-0.0119	-0.143	-8.97e-3	6/15/2018@8:42:49 PM	
		Known Conc:	100				
480-137531-e-2	1	9	0.0283	-0.0283	4.19e-3	6/15/2018@8:43:56 PM	
480-137531-e-3	1	10	-2.01e-3	-0.0580	-5.57e-3	6/15/2018@8:45:01 PM	
480-137531-e-9	1	11	-9.47e-3	-0.122	-8.15e-3	6/15/2018@8:46:07 PM	
480-137509-b-3	1	12	-9.86e-3	-0.137	-8.21e-3	6/15/2018@8:47:13 PM	
480-137509-b-7	1	13	-6.87e-3	-0.137	-7.94e-3	6/15/2018@8:48:19 PM	
480-137509-b-7 MS	1	14	0.897	2.75	0.304	6/15/2018@8:49:24 PM	
CCV	1	S11	1.43	4.68	0.487	6/15/2018@8:50:30 PM	
		Known Conc:	100				
CCB	1	S10	-9.58e-3	-0.137	-8.18e-3	6/15/2018@8:51:36 PM	
		Known Conc:	100				

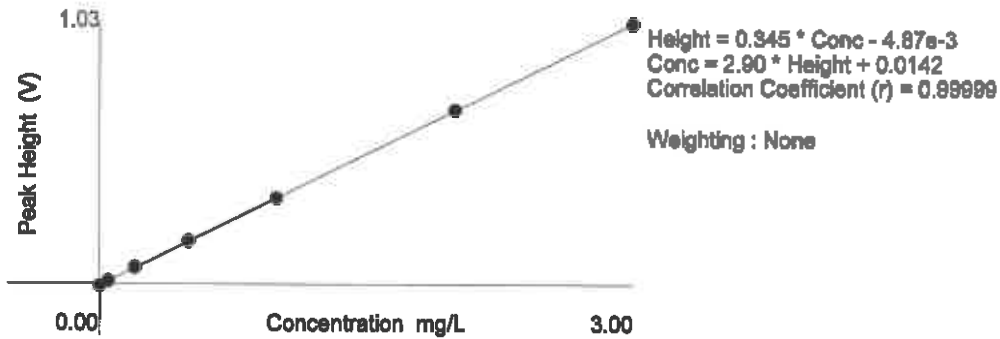
Analyte Properties Table for : OM_6-15-2018_08-27-19PM.OMN

Property	Channel 2 Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.42	1.03	0.0	0.2	2.99	6/15/2018	8:06:03 PM
2	2.00	1	6.31	0.687	0.0	-0.4	2.01	6/15/2018	8:06:09 PM
3	1.00	1	3.14	0.339	0.0	0.1	0.999	6/15/2018	8:07:16 PM
4	0.500	1	1.54	0.168	0.0	-0.6	0.503	6/15/2018	8:08:22 PM
5	0.200	1	0.595	0.0650	0.0	-1.4	0.203	6/15/2018	8:09:30 PM
6	0.0600	1	0.118	0.0128	0.0	-3.1	0.0511	6/15/2018	8:10:36 PM
7	0.00	1	-0.124	-7.55e-3			-7.75e-3	6/15/2018	8:11:43 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 419853

Data										
Lab Sample ID	Client Sample	Method	Analyte	Prop Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-137480-I-1	B11D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-10	MW20R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-11	01FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-5	MW12D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.061	<input type="checkbox"/> 0-0.066
480-137480-I-6	MW17D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.055	<input type="checkbox"/> 0-0.093	<input type="checkbox"/> 0-0.1
480-137480-I-7	MW17S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.062	<input type="checkbox"/> 0-0.32	<input type="checkbox"/> 0-0.264
480-137480-L-2	B11S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.36	<input type="checkbox"/> 0-0.691	<input type="checkbox"/> 0-0.732
480-137480-L-3	B15D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.193	<input type="checkbox"/> 0-0.192
480-137480-L-4	B15S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-8	MW19D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-9	MW18S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137483-D-1	POND01	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-1	FIELD BLANK	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-2	MWBA-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	0.067	<input type="checkbox"/> 0-0.386	<input type="checkbox"/> 0-0.348
480-137484-I-3	MWBA-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	ND	<input type="checkbox"/> 0-1.794	<input type="checkbox"/> 0-1.92
480-137484-I-4	MW-O(1)	353.2	Nitrate Nitrite as N	Total/NA	mg/L as NB	8	1.0	ND	<input type="checkbox"/> 0-0.083	<input type="checkbox"/> 0-0.088
480-137504-D-1	EFFLUENT	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	10.0	20	<input type="checkbox"/> 7.288 - 28.712	<input type="checkbox"/> 11.2 - 31.2
480-137528-F-1	MW-109R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.109	<input type="checkbox"/> 0-0.118
480-137528-F-2	MW-114R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-2	MW-10R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.110, 120	<input checked="" type="checkbox"/> 0-0.097	<input checked="" type="checkbox"/> 0-0.104 <i>continued same batch</i>
480-137531-E-3	MW-10S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.068	<input type="checkbox"/> 0-0.101	<input checked="" type="checkbox"/> 0-0.082
480-137531-E-4	MW-14R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.145	<input type="checkbox"/> 0-0.156
480-137531-E-5	MW-20R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-6	MW-20S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-7	MW-7R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.123	<input type="checkbox"/> 0-0.132
480-137531-E-8	SW-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.304	<input type="checkbox"/> 0-3.6
480-137531-E-9	SW-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.051, 0.0311	<input checked="" type="checkbox"/> 0-0	<input checked="" type="checkbox"/> 0-0 <i>continued same batch</i>
480-137534-G-1	INFLUENT	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

Historical Data Summary Report

For Batch 419956

Lab Sample ID	Client Sample	Method	Analyte	Data				Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution		
480-137480-I-8	MW17D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-137480-I-7	MW17S	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-137480-L-2	B11S	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-137484-I-2	MWBA-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-137504-D-1	EFFLUENT	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.11	<input type="checkbox"/> 0 - 0.407
480-137531-E-2	MW-10R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.085
480-137531-E-3	MW-10S	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0
480-137531-E-9	SW-5	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0

Historical Data Summary Report

For Batch 419962

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fall 3-Sigma Limits	Fall Client Limits
				Prep Type	Unit	Points	Dilution			
480-137480-I-1	B11D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-10	MW20R	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-11	O1FB	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-I-5	MW12D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-3	B15D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-4	B15S	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-8	MW19D	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137480-L-8	MW18S	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137483-D-1	POND01	353.2_Nitrite	Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-1	FIELD BLANK	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-3	MWBA-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137484-I-4	MW-OX()	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137528-F-1	MW-108R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137528-F-2	MW-114R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-4	MW-14R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-5	MW-20R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-6	MW-20S	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-7	MW-7R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137531-E-8	SW-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0.269	<input type="checkbox"/> 0-0.276
480-137534-G-1	INFLUENT	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

Sulfide Stock Solution Standardization
for method SM 4500 S2F

Add 5.0 mL of 0.025N iodine solution to a 250 mL flask
 Add 1.0 mL of 6N HCl
 Add 1.0 mL of 1000 ppm pre-certified Sodium Sulfide below the surface of the Iodine solution
 Dilute to 100 mL with reagent water
 Add 1 dropper of starch indicator
 Titrate with 0.025N Sodium Thiosulfate until the endpoint is reached (blue color disappears)

Repeat twice and average the results

The standardized sodium sulfide concentration is calculated as follows:

$$S = [(A \times B) - (C \times D)] \times 16,000 / E$$

Where:

- A = Volume of iodine solution (5.0 mL)
- B = Normality of iodine solution (0.025N)
- C = Volume of Na₂S₂O₃ solution (Determined by standardization)
- D = Normality of Na₂S₂O₃ solution (0.025N)
- E = Volume of sulfide stock (1.0 mL)
- S = Concentration of sulfide stock

The standardization procedure must be completed for both the primary source standard used for the CCV/MS and the secondary source standard for the LCS

Date:	<input type="text" value="6/21/2018"/>	0.025N Iodine	<u>TALS ID:</u>
		0.025N Sodium Thiosulfate	4449717
			4487459

CCV/MS

mL Na₂S₂O₃ used for Titration 1: 2.50
 mL Na₂S₂O₃ used for Titration 1: 2.50
 Avg mL:

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under CCV "Stock Conc."
 STOCK Reagent ID 4675836 The actual concentration of the CCV will calculate automatically
 NEW Reagent ID (CCV/MS) 4723423

LCS

mL Na₂S₂O₃ used for Titration 1: 2.70
 mL Na₂S₂O₃ used for Titration 1: 2.70
 Avg mL:

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under LCS "Stock Conc."
 STOCK Reagent ID 4683225 The actual concentration of the LCS will calculate automatically
 NEW Reagent ID (LCS) 4723424

Historical Data Summary Report

For Batch 420855

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-137546-E-6	MW2SR	SMA500_S2_Sulfide	S2_Sulfide	Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-7	MW40DR	SMA500_S2_Sulfide	S2_Sulfide	Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-8	DUP3	SMA500_S2_Sulfide	S2_Sulfide	Total/NA	ug/L	2	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

419953 419956 419962 419963

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO ₃ /NO ₂ 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4253342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD(MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4713322	Exp. 06/16/2018
Nitrite 1.5ppm CCV/ICV/LCS	4713323	Exp. 06/16/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
Control Limits = 90-110%
(1.35 mg/L –1.65 mg/L)

MB/CCB = 0.0mg/L
Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
Control Limits = 90-110%

RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up to 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with Di water
2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
.5ppm –5ml of 1.0ppm up to 10ml with DI water
.2 ppm – 5ml of 2.0ppm up too 50ml with DI water
.05 ppm – 5ml of .2ppm up 20ml With DI water
ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 6/15/18

NO₃

419953

Original Run Filename: OM_6-15-2018_06-38-03PM.OMN Created: 6/15/2018 6:38:03 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-15-2018_06-38-03PM.OMN Last Modified: 6/15/2018 8:00:41 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

DB
6/15/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.45	4.24	0.335	6/15/2018@6:39:08 PM	
Calibration:			Table/Fig. : 1				
CCV	1	S9	1.48	4.34	0.342	6/15/2018@6:40:16 PM	
Known Conc:			1.50				
CCB	1	S10	0.0134	-0.131	-9.20e-3	6/15/2018@6:41:25 PM	
Known Conc:			0.00				
MB	1	S10	6.66e-3	-0.151	-0.0101	6/15/2018@6:42:33 PM	
Known Conc:			0.00				
LCS	1	S9	1.49	4.35	0.343	6/15/2018@6:43:41 PM	
Known Conc:			1.50				
480-137480-I-1	1	1	0.0110	-0.138	-9.25e-3	6/15/2018@6:44:51 PM	
480-137480-I-1 DU	1	2	0.0124	-0.134	-9.11e-3	6/15/2018@6:46:00 PM	
480-137480-I-1 MS	1	3	0.969	2.77	0.218	6/15/2018@6:47:09 PM	
480-137480-L-2	1	4	0.356	0.910	0.0729	6/15/2018@6:48:18 PM	
480-137480-L-3	1	5	0.0189	-0.114	-6.78e-3	6/15/2018@6:49:27 PM	
480-137480-L-4	1	6	0.0146	-0.127	-8.38e-3	6/15/2018@6:50:36 PM	
480-137480-I-5	1	7	0.0290	-0.0834	-4.97e-3	6/15/2018@6:51:45 PM	
480-137480-I-6	1	8	0.0546	-5.36e-3	2.28e-3	6/15/2018@6:52:53 PM	
CCV	1	S9	1.47	4.29	0.338	6/15/2018@6:54:01 PM	
Known Conc:			1.50				
CCB	1	S10	8.79e-3	-0.145	-9.55e-3	6/15/2018@6:55:10 PM	
Known Conc:			0.00				
480-137480-i-7	1	9	0.0617	0.0160	2.40e-3	6/15/2018@6:56:18 PM	
480-137480-i-8	1	10	0.0147	-0.127	-9.25e-3	6/15/2018@6:57:27 PM	
480-137480-i-9	1	11	0.0205	-0.109	-7.33e-3	6/15/2018@6:58:35 PM	
480-137480-i-10	1	12	0.0183	-0.116	-7.96e-3	6/15/2018@6:59:43 PM	
480-137480-i-11	1	13	4.95e-3	-0.156	-0.0103	6/15/2018@7:00:51 PM	
480-137483-d-1	1	14	-4.86e-3	-0.186	-0.0104	6/15/2018@7:01:59 PM	
480-137484-i-1	1	15	6.12e-3	-0.153	-9.96e-3	6/15/2018@7:03:06 PM	
480-137484-i-2	1	16	0.0671	0.0326	4.05e-3	6/15/2018@7:04:16 PM	
480-137484-i-3	1	17	5.75e-3	-0.154	-9.95e-3	6/15/2018@7:05:25 PM	
480-137484-i-3 MS	1	18	0.969	2.78	0.217	6/15/2018@7:06:34 PM	
CCV	1	S9	1.46	4.27	0.338	6/15/2018@7:07:42 PM	
Known Conc:			1.50				
CCB	1	S10	9.21e-3	-0.143	-9.63e-3	6/15/2018@7:08:51 PM	
Known Conc:			0.00				
MB	1	S10	0.0106	-0.139	-9.59e-3	6/15/2018@7:09:59 PM	
Known Conc:			0.00				
LCS	1	S9	1.44	4.20	0.331	6/15/2018@7:11:07 PM	
Known Conc:			1.50				
480-137484-i-4	1	19	0.0137	-0.130	-8.17e-3	6/15/2018@7:12:16 PM	
480-137484-i-4 DU	1	20	9.97e-3	-0.141	-9.20e-3	6/15/2018@7:13:25 PM	
480-137484-i-4 MS	1	21	0.998	2.86	0.226	6/15/2018@7:14:34 PM	
480-137527-d-1	1	22	-8.72e-4	-0.174	-0.0104	6/15/2018@7:15:42 PM	
480-137527-d-2	1	23	9.24	27.9	2.15	6/15/2018@7:16:51 PM	
480-137528-f-1	1	24	0.0108	-0.139	-9.47e-3	6/15/2018@7:17:59 PM	
480-137528-f-2	1	25	0.0221	-0.104	-7.29e-3	6/15/2018@7:19:08 PM	
480-137534-g-1	1	26	0.0149	-0.126	-8.33e-3	6/15/2018@7:20:16 PM	
CCV	1	S9	1.43	4.17	0.328	6/15/2018@7:21:24 PM	
Known Conc:			1.50				
CCB	1	S10	6.44e-3	-0.152	-0.0102	6/15/2018@7:22:32 PM	
Known Conc:			0.00				
480-137504-d-1*10	1	27	2.03	5.99	0.471	6/15/2018@7:23:40 PM	
480-137531-e-2	1	28	0.109	0.159	0.0114	6/15/2018@7:24:49 PM	
480-137531-e-3	1	29	0.0681	0.0355	3.76e-3	6/15/2018@7:25:56 PM	
480-137531-e-4	1	30	0.0194	-0.113	-7.55e-3	6/15/2018@7:27:04 PM	
480-137531-e-5	1	31	0.0472	-0.0281	-1.94e-3	6/15/2018@7:28:14 PM	
480-137531-e-6	1	32	9.41e-3	-0.143	-9.88e-3	6/15/2018@7:29:23 PM	

21 → S10

480-137531-e-7	1	33	9.17e-3	-0.144	-9.71e-3	6/15/2018@7:30:32 PM
480-137531-e-8	1	34	0.0428	-0.0415	-2.22e-3	6/15/2018@7:31:41 PM
480-137531-e-9	1	35	0.0513	-0.0154	-1.57e-3	6/15/2018@7:32:50 PM
480-137531-e-9 MS	1	36	1.03	2.96	0.233	6/15/2018@7:33:59 PM
CCV	1	S9	1.48	4.32	0.338	6/15/2018@7:35:06 PM
Known Conc:			1.50			
CCB	1	S10	9.89e-3	-0.141	-9.81e-3	6/15/2018@7:36:15 PM
Known Conc:			0.00			
MB	1	S10	4.09e-3	-0.159	-0.0104	6/15/2018@7:37:23 PM
Known Conc:			0.00			
LCS	1	S9	1.44	4.20	0.330	6/15/2018@7:38:31 PM
Known Conc:			1.50			
480-137509-b-1	1	37	0.0252	-0.0950	-5.40e-3	6/15/2018@7:39:40 PM
480-137509-b-1 DU	1	38	0.0526	-0.0114	-1.99e-3	6/15/2018@7:40:49 PM
480-137509-b-1 MS	1	39	1.00	2.87	0.226	6/15/2018@7:41:57 PM
480-137509-b-2	1	40	0.0158	-0.123	-7.93e-3	6/15/2018@7:43:05 PM
480-137509-b-3	1	41	0.0786	0.0674	7.09e-3	6/15/2018@7:44:14 PM
480-137509-b-4	1	42	0.0498	-0.0201	-1.39e-3	6/15/2018@7:45:22 PM
480-137509-b-5	1	43	0.0244	-0.0972	-6.96e-3	6/15/2018@7:46:30 PM
480-137509-b-6	1	44	6.47e-3	-0.152	-0.0105	6/15/2018@7:47:38 PM
CCV	1	S9	1.48	4.33	0.342	6/15/2018@7:48:46 PM
Known Conc:			1.50			
CCB	1	S10	0.0163	-0.122	-8.81e-3	6/15/2018@7:49:54 PM
Known Conc:			0.00			
480-137509-b-7	1	45	0.188	0.401	0.0335	6/15/2018@7:51:02 PM
480-137509-b-7 MS	1	46	1.16	3.37	0.267	6/15/2018@7:52:12 PM
480-137527-d-2^10	1	47	0.977	2.80	0.222	6/15/2018@7:53:21 PM
480-137531-e-9 2	1	48	0.0498	-0.0200	-2.37e-3	6/15/2018@7:54:30 PM
480-137531-e-8 2	1	49	0.0511	-0.0162	-2.62e-3	6/15/2018@7:55:39 PM
480-137531-e-6 9	1	50	0.120	0.193	0.0146	6/15/2018@7:56:47 PM
CCV	1	S9	1.47	4.29	0.339	6/15/2018@7:57:55 PM
Known Conc:			1.50			
CCB	1	S10	4.18e-3	-0.159	-0.0103	6/15/2018@7:59:04 PM
Known Conc:			0.00			

500mg/Sml

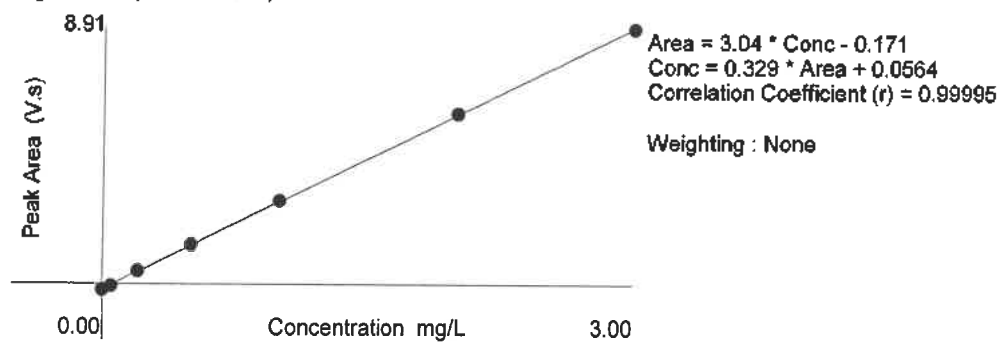
Analyte Properties Table for : OM_6-15-2018_06-38-03PM.OMN

Property	Channel 2
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	8.91	0.699	0.0	0.4	2.99	6/15/2018	6:23:19 PM
2	2.00	1	5.94	0.468	0.0	-0.6	2.01	6/15/2018	6:24:27 PM
3	1.00	1	2.91	0.231	0.0	-1.5	1.01	6/15/2018	6:25:36 PM
4	0.500	1	1.37	0.110	0.0	-1.6	0.507	6/15/2018	6:26:45 PM
5	0.200	1	0.452	0.0363	0.0	-3.4	0.205	6/15/2018	6:27:54 PM
6	0.0500	1	-0.0636	-2.94e-3	0.0	-231.8	0.0355	6/15/2018	6:29:04 PM
7	0.00	1	-0.199	-0.0115			-9.05e-3	6/15/2018	6:30:12 PM

Figure : 1 (Nitrate/Nitrite)



NO₂ 419956

Original Run Filename: OM_6-15-2018_08-27-19PM.OMN Created: 6/15/2018 8:27:19 PM
 Original Run Author's Signature: [BufLachat3]
 Current Run Filename: OM_6-15-2018_08-27-19PM.OMN Last Modified: 6/15/2018 8:52:55 PM
 Current Run Author's Signature: [BufLachat3]
 Description: Default New Run

DB
6/15/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.42	4.52	0.485	6/15/2018@8:28:24 PM	
		Known Conc:	100				
		Calibration:	Table/Fig. : 1				
CCB	1	S10	-0.0114	-0.134	-8.82e-3	6/15/2018@8:29:30 PM	
		Known Conc:	100				
MB	1	S10	-0.0107	-0.132	-8.56e-3	6/15/2018@8:30:36 PM	
		Known Conc:	100				
LCS	1	S11	1.40	4.56	0.479	6/15/2018@8:31:43 PM	
		Known Conc:	100				
480-137504-d-1	1	1	0.109	0.334	0.0326	6/15/2018@8:32:50 PM	
480-137504-d-1 DU	1	2	0.116	0.333	0.0352	6/15/2018@8:33:57 PM	
480-137504-d-1 MS	1	3	1.12	3.62	0.381	6/15/2018@8:35:04 PM	
480-137480-i-2	1	4	-0.0105	-0.151	-8.50e-3	6/15/2018@8:36:10 PM	
480-137480-i-6	1	5	-0.0109	-0.126	-8.63e-3	6/15/2018@8:37:17 PM	
480-137480-i-7	1	6	1.37e-3	-0.0847	-4.41e-3	6/15/2018@8:38:23 PM	
480-137484-i-2	1	7	-9.84e-3	-0.120	-8.27e-3	6/15/2018@8:39:30 PM	
480-137527-d-2	1	8	0.0857	0.240	0.0247	6/15/2018@8:40:36 PM	
CCV	1	S11	1.41	4.55	0.483	6/15/2018@8:41:43 PM	
		Known Conc:	100				
CCB	1	S10	-0.0119	-0.143	-8.97e-3	6/15/2018@8:42:49 PM	
		Known Conc:	100				
480-137531-e-2	1	9	0.0263	-0.0293	4.19e-3	6/15/2018@8:43:55 PM	
480-137531-e-3	1	10	-2.01e-3	-0.0580	-5.57e-3	6/15/2018@8:45:01 PM	
480-137531-e-9	1	11	-9.47e-3	-0.122	-8.15e-3	6/15/2018@8:46:07 PM	
480-137509-b-3	1	12	-9.66e-3	-0.137	-8.21e-3	6/15/2018@8:47:13 PM	
480-137509-b-7	1	13	-8.87e-3	-0.137	-7.94e-3	6/15/2018@8:48:19 PM	
480-137509-b-7 MS	1	14	0.897	2.75	0.304	6/15/2018@8:49:24 PM	
CCV	1	S11	1.43	4.58	0.487	6/15/2018@8:50:30 PM	
		Known Conc:	100				
CCB	1	S10	-9.56e-3	-0.137	-8.18e-3	6/15/2018@8:51:36 PM	
		Known Conc:	100				

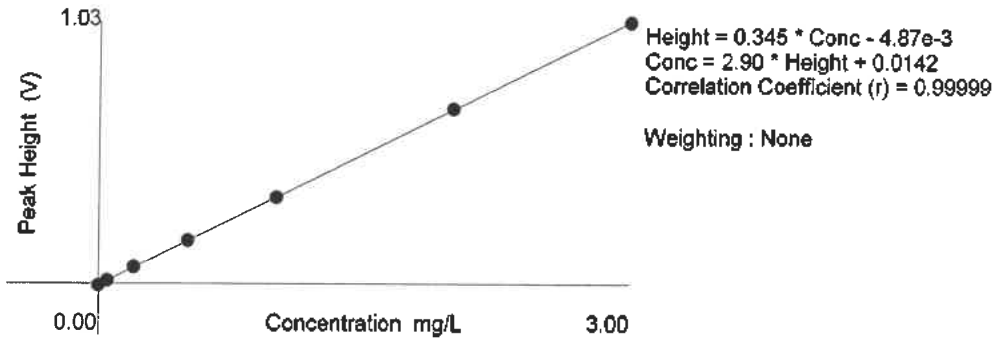
Analyte Properties Table for : OM_6-15-2018_08-27-19PM.OMN

Property	Channel 2 Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.42	1.03	0.0	0.2	2.99	6/15/2018	8:05:03 PM
2	2.00	1	6.31	0.687	0.0	-0.4	2.01	6/15/2018	8:06:09 PM
3	1.00	1	3.14	0.339	0.0	0.1	0.999	6/15/2018	8:07:16 PM
4	0.500	1	1.54	0.168	0.0	-0.6	0.503	6/15/2018	8:08:22 PM
5	0.200	1	0.595	0.0650	0.0	-1.4	0.203	6/15/2018	8:09:30 PM
6	0.0500	1	0.118	0.0128	0.0	-3.1	0.0511	6/15/2018	8:10:36 PM
7	0.00	1	-0.124	-7.55e-3			-7.75e-3	6/15/2018	8:11:43 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 419953

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fall 3-Sigma Limits	Fail Client Limits
480-137480-I-1	B11D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137480-I-10	MW20R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137480-I-11	O1FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137480-I-5	MW12D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.061	<input type="checkbox"/> 0 - 0.066
480-137480-I-6	MW17D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.065	<input type="checkbox"/> 0 - 0.093	<input type="checkbox"/> 0 - 0.1
480-137480-I-7	MW17S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.062	<input type="checkbox"/> 0 - 0.32	<input type="checkbox"/> 0 - 0.264
480-137480-L-2	B11S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.36	<input type="checkbox"/> 0 - 0.891	<input type="checkbox"/> 0 - 0.732
480-137480-L-3	B15D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.193	<input type="checkbox"/> 0 - 0.192
480-137480-L-4	B15S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137480-L-8	MW19D	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137480-L-9	MW19S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137483-D-1	POND01	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137484-I-1	FIELD BLANK	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137484-I-2	MWBA-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.067	<input type="checkbox"/> 0 - 0.388	<input type="checkbox"/> 0 - 0.348
480-137484-I-3	MWBA-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 1.794	<input type="checkbox"/> 0 - 1.92
480-137484-I-4	MW-O(I)	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.083	<input type="checkbox"/> 0 - 0.089
480-137504-D-1 A10EFFLUENT		353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	10.0	20	<input type="checkbox"/> 7.288 - 28.712	<input type="checkbox"/> 11.2 - 31.2
480-137528-F-1	MW-109R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.109	<input type="checkbox"/> 0 - 0.118
480-137528-F-2	MW-114R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137531-E-2	MW-10R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.110, 120	<input checked="" type="checkbox"/> 0 - 0.087	<input checked="" type="checkbox"/> 0 - 0.104 confirmed June batch
480-137531-E-3	MW-10S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.068	<input type="checkbox"/> 0 - 0.101	<input type="checkbox"/> 0 - 0.082
480-137531-E-4	MW-14R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.145	<input type="checkbox"/> 0 - 0.156
480-137531-E-5	MW-20R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137531-E-6	MW-20S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137531-E-7	MW-7R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137531-E-8	SW-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.123	<input type="checkbox"/> 0 - 0.132
480-137531-E-9	SW-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.051, 0.0514	<input type="checkbox"/> 0 - 3.904	<input type="checkbox"/> 0 - 3.6
480-137534-G-1	INFLUENT	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input checked="" type="checkbox"/> 0 - 0	<input checked="" type="checkbox"/> 0 - 0 confirmed same batch

Historical Data Summary Report

For Batch 419956

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Data	
									Fail 3-Sigma Limits	Fail Client Limits
480-137480-I-6	MW17D	353.2_Nitrite Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0	
480-137480-I-7	MW17S	353.2_Nitrite Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0	
480-137480-L-2	B11S	353.2_Nitrite Nitrogen, Nitrite	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0	
480-137484-I-2	MWBA-1	353.2_Nitrite Nitrite as N	Total/NA	mg/L as N	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0	
480-137504-D-1	EFFLUENT	353.2_Nitrite Nitrite as N	Total/NA	mg/L	8	1.0	0.11	<input type="checkbox"/> 0 - 0.407	<input type="checkbox"/> 0.078 - 0.348	
480-137531-E-2	MW-10R	353.2_Nitrite Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0.085	<input type="checkbox"/> 0 - 0.091	
480-137531-E-3	MW-10S	353.2_Nitrite Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0	
480-137531-E-9	SW-5	353.2_Nitrite Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0	

Historical Data Summary Report

For Batch 419962

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Limits	
									Fail 3-Sigma	Fail Client
480-137480-L-1	B11D	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-10	MW20R	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-11	O1FB	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-5	MW12D	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-3	B15D	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-4	B15S	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-8	MW19D	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137480-L-9	MW19S	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137483-D-1	POND01	353.2_Nitrite Nitrogen, Nitrite		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137484-L-1	FIELD BLANK	353.2_Nitrite Nitrite as N		Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137484-L-3	MWBA-2	353.2_Nitrite Nitrite as N		Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137484-L-4	MW-Q(I)	353.2_Nitrite Nitrite as N		Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137528-F-1	MW-109R	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137528-F-2	MW-114R	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137531-E-4	MW-14R	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137531-E-5	MW-20R	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137531-E-6	MW-20S	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137531-E-7	MW-7R	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137531-E-8	SW-1	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>
480-137534-G-1	INFLUENT	353.2_Nitrite Nitrite as N		Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	<input type="checkbox"/>

TestAmerica [lab name] Buffalo

Ion Chromatography Data Review Checklist

LIMS Batch Number: 418513-6	Work List Number: 72157	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: CA	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate ICAL		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		g	
2. Elution order of analytes in ICAL confirmed to be correct		Y		g	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y		g	
4. ICV, second source: run before samples 90-110% recovery	X	Y		g	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)	NA				If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y		g	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	NA				If no, list details:
8. PK Area:Height Difference (314.0 PD _{A/M}): Before samples <25%	NA				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?	NA				Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y		g	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:	NA				<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:	NA				<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:	NA				<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%	A				

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	NA			
b. All crossed out data is initialed and dated	NA			
c. Out of control QC is clearly identified	NA			
d. Any data that has a qualifier tick is commented on with appropriate action taken	NA			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	NA			
b. All crossed out data is initialed and dated	NA			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	NA			
b. Method and matrix are correct	A			
c. Date and time match raw data	Y			
d. Dilutions are correct	NA			
e. Correct suffix designated (where applicable)	NA			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	NA			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	NA			
b. All reported analytes are marked Primary or Secondary	NA			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer:

CR

Review Date:

6/8/18

Comments:

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180608 ICAL
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\Chrom\NA\Buffalo\ChromData\IC-2\20180607-72157.b
 Upload Directory: \\Corp\TALSAPP17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 72157
 Chrom Method: IC2-300
 Units: ul

Chris & Elton

CA

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072157-001	# 1 Blank		Client		sv	5.000	mL	1.000
480-0072157-002	# 2 CCV	IC_ANION_LCS_00205	CCV		sv	5.000	mL	1.000
480-0072157-003	# 3 CCV	IC_ANION_LCS_00205	CCV		sv	5.000	mL	1.000
480-0072157-004	# 4 Blank		Client		sv	5.000	mL	1.000
480-0072157-005	# 5 IC-STD1	IC_ANION_STD_00036	IC	1	sv	5.000	mL	1.000
480-0072157-006	# 6 IC-STD2	IC_ANION_STD_00036	IC	2	sv	5.000	mL	1.000
480-0072157-007	# 7 IC-STD3	IC_ANION_STD_00036	IC	3	sv	5.000	mL	1.000
480-0072157-008	# 8 IC-STD4	IC_ANION_STD_00036	IC	4	sv	5.000	mL	1.000
480-0072157-009	# 9 IC-STD5	IC_ANION_STD_00036	IC	5	sv	5.000	mL	1.000
480-0072157-010	#10 IC-STD6	IC_ANION_STD_00036	IC	6	sv	5.000	mL	1.000
480-0072157-011	#11 ICV	IC ERA_00018	ICV		sv	5.000	mL	1.000
480-0072157-012	#12 ICB		ICB		sv	5.000	mL	1.000

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
Instrument: IC-2 Lims Location: 480
Lock State: Initial Calib Locked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 08-Jun-2018 13:48:10
No. Compounds: 5

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.160	2.160	2.163	2.170	2.177	2.180	2.168	0.398	2.177
2 Chloride	3.010	3.010	3.010	3.007	3.000	2.990	3.004	0.269	3.000
3 Bromide	4.463	4.467	4.460	4.457	4.437	4.407	4.448	0.516	4.437
5 Sulfate	5.577	5.563	5.547	5.497	5.410	5.327	5.487	1.807	5.410

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	61660	48440	48222	44141	41656	39026	1494	40267	WLinr	13.0	0.998	
	-21.1	1.7	12.3	7.8	2.7	-3.5						
2 Chloride	24530	24889	25575	26310	26445	26859	-1973	26582	WLinr	4.0	1.000	
	6.7	-3.0	-2.7	-1.0	-0.7	0.7						
3 Bromide	7300	8030	9008	10086	10309	10478	-258	10395	WLinr	12.0	0.999	
	19.8	-10.4	-8.4	-1.7	-0.3	1.0						
5 Sulfate	91154	42623	30332	22703	21244	20805	37922	20573	WLinr	15.8	0.999	
	-25.6	15.0	10.6	1.1	-0.4	-0.7						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.160	2.160	2.163	2.170	2.177	2.180	2.168	0.398	2.177
2 Chloride	3.010	3.010	3.010	3.007	3.000	2.990	3.004	0.269	3.000
3 Bromide	4.463	4.467	4.460	4.457	4.437	4.407	4.448	0.516	4.437
5 Sulfate	5.577	5.563	5.547	5.497	5.410	5.327	5.487	1.807	5.410

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB SM4110B ICAL

Column 1:

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	61660	48440	48222	44141	41656	39026	1494	40267	WLinr	13.0	0.988	
	-21.1	1.7	12.3	7.8	2.7	-3.5						
2 Chloride	24530	24889	25575	26310	26445	26859	-1973	26682	WLinr	4.0	1.000	
	6.7	-3.0	-2.7	-1.0	-0.7	0.7						
3 Bromide	7300	8030	9008	10086	10309	10478	-258	10395	WLinr	12.0	0.999	
	19.8	-10.4	-8.4	-1.7	-0.3	1.0						
5 Sulfate	91154	42623	30332	22703	21244	20805	37922	20573	WLinr	15.8	0.999	
	-25.6	15.0	10.6	1.1	-0.4	-0.7						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Limit Group: MB 9056 ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.160	2.160	2.163	2.170	2.177	2.180	2.168	0.398	2.177
2 Chloride	3.010	3.010	3.010	3.007	3.000	2.990	3.004	0.269	3.000
3 Bromide	4.463	4.467	4.460	4.457	4.437	4.407	4.448	0.516	4.437
5 Sulfate	5.577	5.563	5.547	5.497	5.410	5.327	5.487	1.807	5.410

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB 9056 ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	61660	48440	48222	44141	41656	39026	1494	40267	WLinr	13.0	0.998	
	-21.1	1.7	12.3	7.8	2.7	-3.5						
2 Chloride	24530	24889	25575	26310	26445	26859	-1973	26682	WLinr	4.0	1.000	
	6.7	-3.0	-2.7	-1.0	-0.7	0.7						
3 Bromide	7300	8030	9008	10086	10309	10478	-258	10395	WLinr	12.0	0.999	
	19.8	-10.4	-8.4	-1.7	-0.3	1.0						
5 Sulfate	91154	42623	30332	22703	21244	20805	37922	20573	WLinr	15.8	0.999	
	-25.6	15.0	10.6	1.1	-0.4	-0.7						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No. Compounds: 5

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
4 Nitrate as N	4.737	4.730	4.723	4.703	4.663	4.603	4.693	1.096	4.663

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
4 Nitrate as N	61020	58840	64158	65264	66626	68557	-771	67648	WLinr	7.8	1.000	
	13.0	-7.3	-2.9	-3.0	-1.3	1.5						

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d
 Lims ID: IC - STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Jun-2018 12:15:45 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 205 Name: IC - STD1
 Misc. Info.: Study: 480-0072157-005 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:52 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:28:30

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.160	2.177	-0.017	3083	0.0500	0.0395	M
2 Chloride						
3.010	3.000	0.010	12265	0.5000	0.5336	
3 Bromide						Ma
4.463	4.437	0.026	365	0.0500	0.0599	M
4 Nitrate as N						M
4.737	4.663	0.074	3051	NC	NC	M
5 Sulfate						
5.577	5.410	0.167	45577	0.5000	0.3721	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

IC_ANION_STD_00036 Amount Added: 2.50 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d

Injection Date: 08-Jun-2018 12:15:45

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD1

Worklist Smp#: 5

Client ID:

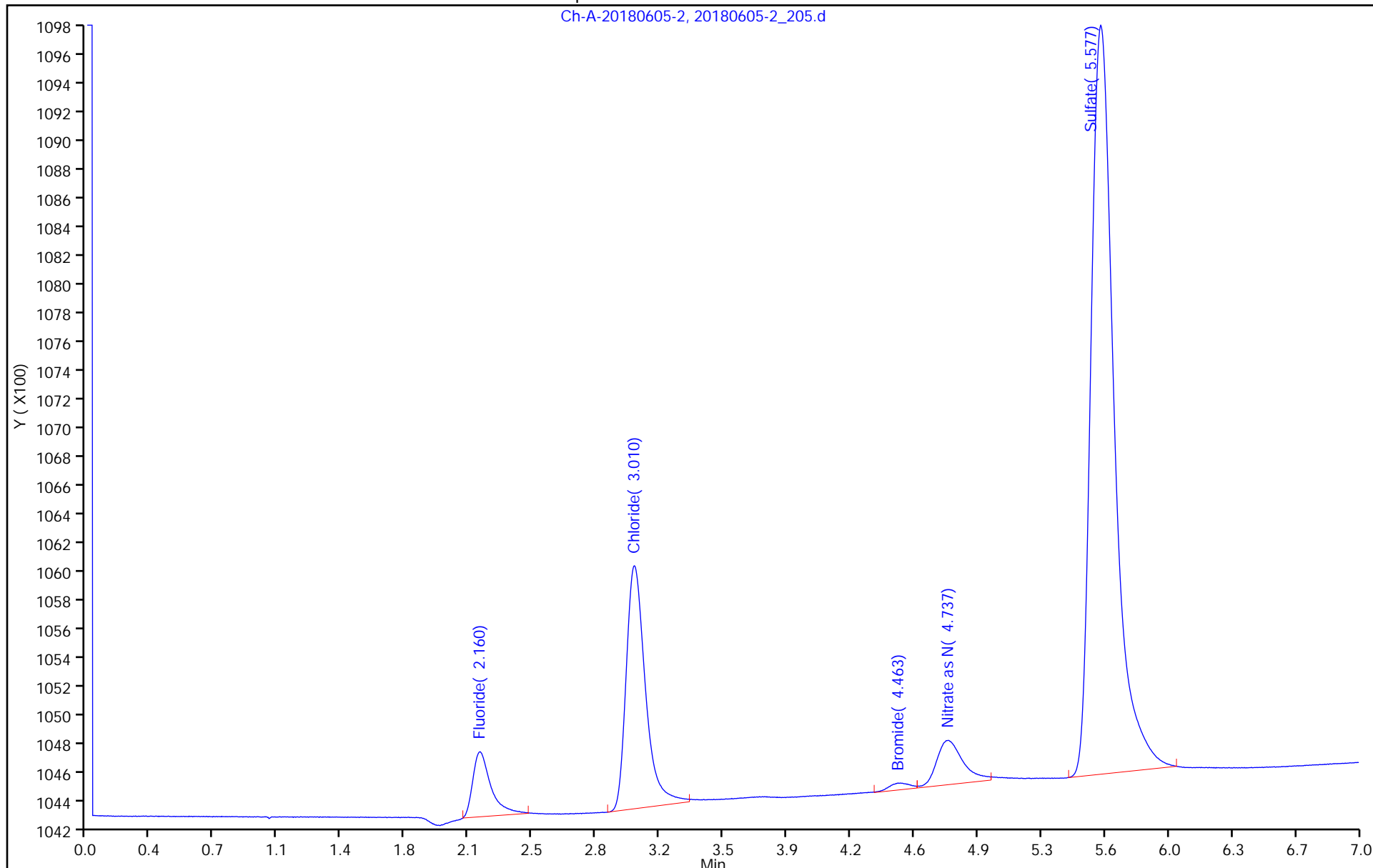
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

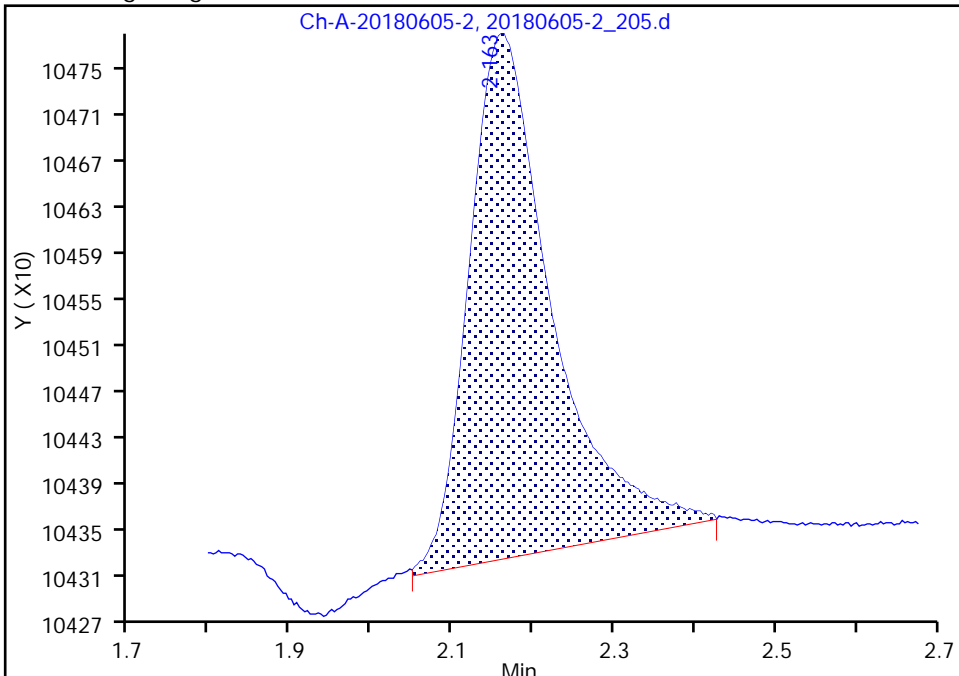
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d
Injection Date: 08-Jun-2018 12:15:45 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

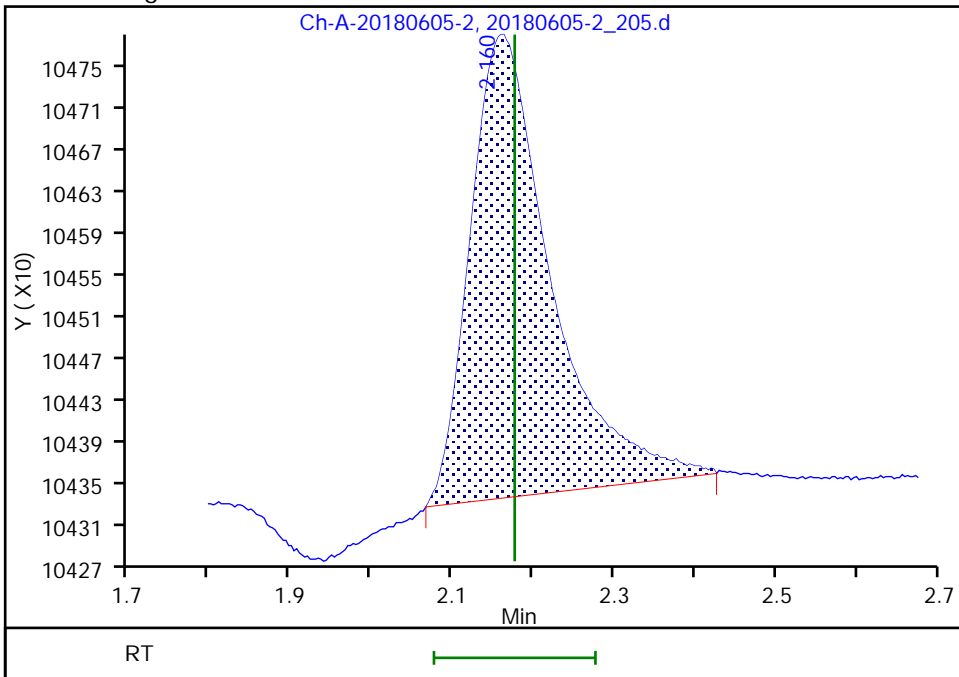
RT: 2.16
Area: 3253
Amount: 0.050984
Amount Units: ng/uL

Processing Integration Results



RT: 2.16
Area: 3083
Amount: 0.039453
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:26:16
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
Page 379 of 444

TestAmerica Buffalo

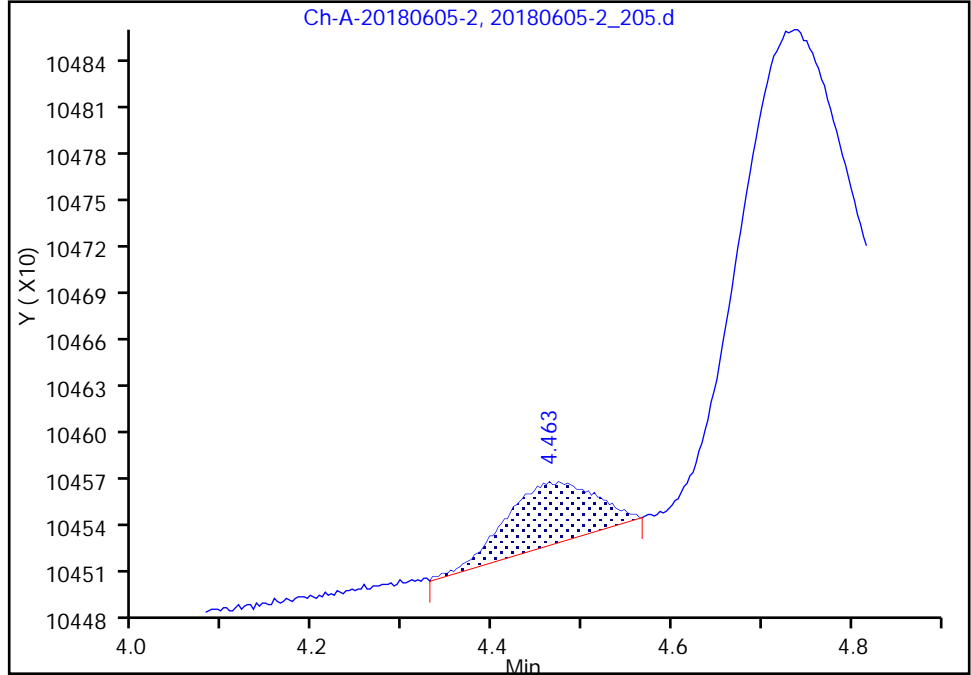
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d
Injection Date: 08-Jun-2018 12:15:45 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

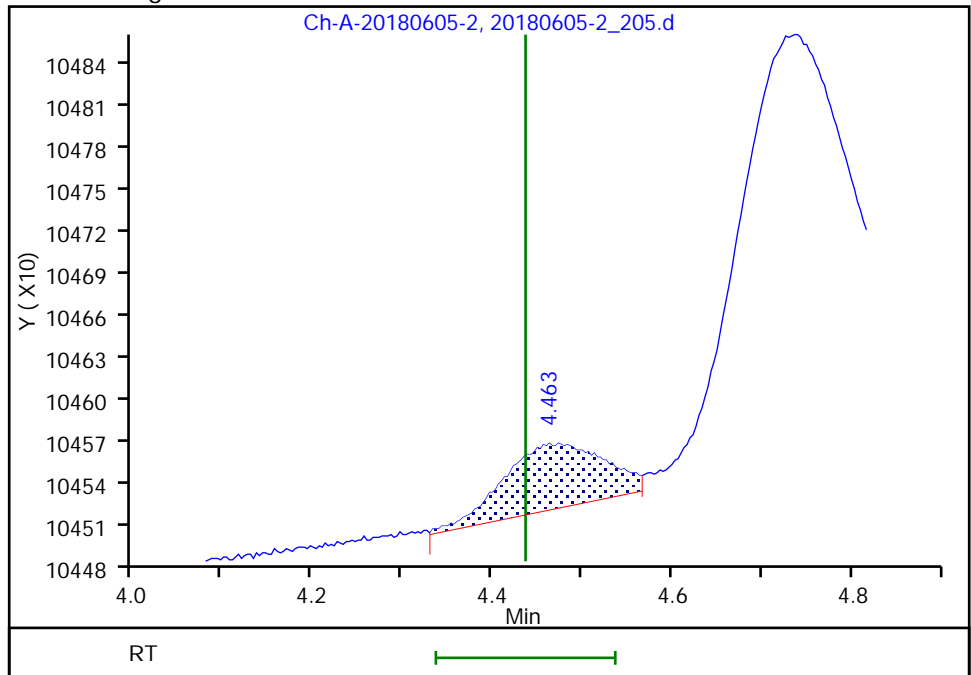
RT: 4.46
Area: 280
Amount: 0.063680
Amount Units: ng/uL

Processing Integration Results



RT: 4.46
Area: 365
Amount: 0.059893
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:27:38
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_206.d
 Lims ID: IC - STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Jun-2018 12:23:54 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 206 Name: IC - STD2
 Misc. Info.: Study: 480-0072157-006 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:53 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:29:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.160	2.177	-0.017	9688	0.2000	0.2035	M
2 Chloride						
3.010	3.000	0.010	49778	2.00	1.94	
3 Bromide						
4.467	4.437	0.030	1606	0.2000	0.1793	
4 Nitrate as N						
4.730	4.663	0.067	11768	NC	NC	
5 Sulfate						
5.563	5.410	0.153	85246	2.00	2.30	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_206.d

Injection Date: 08-Jun-2018 12:23:54

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD2

Worklist Smp#: 6

Client ID:

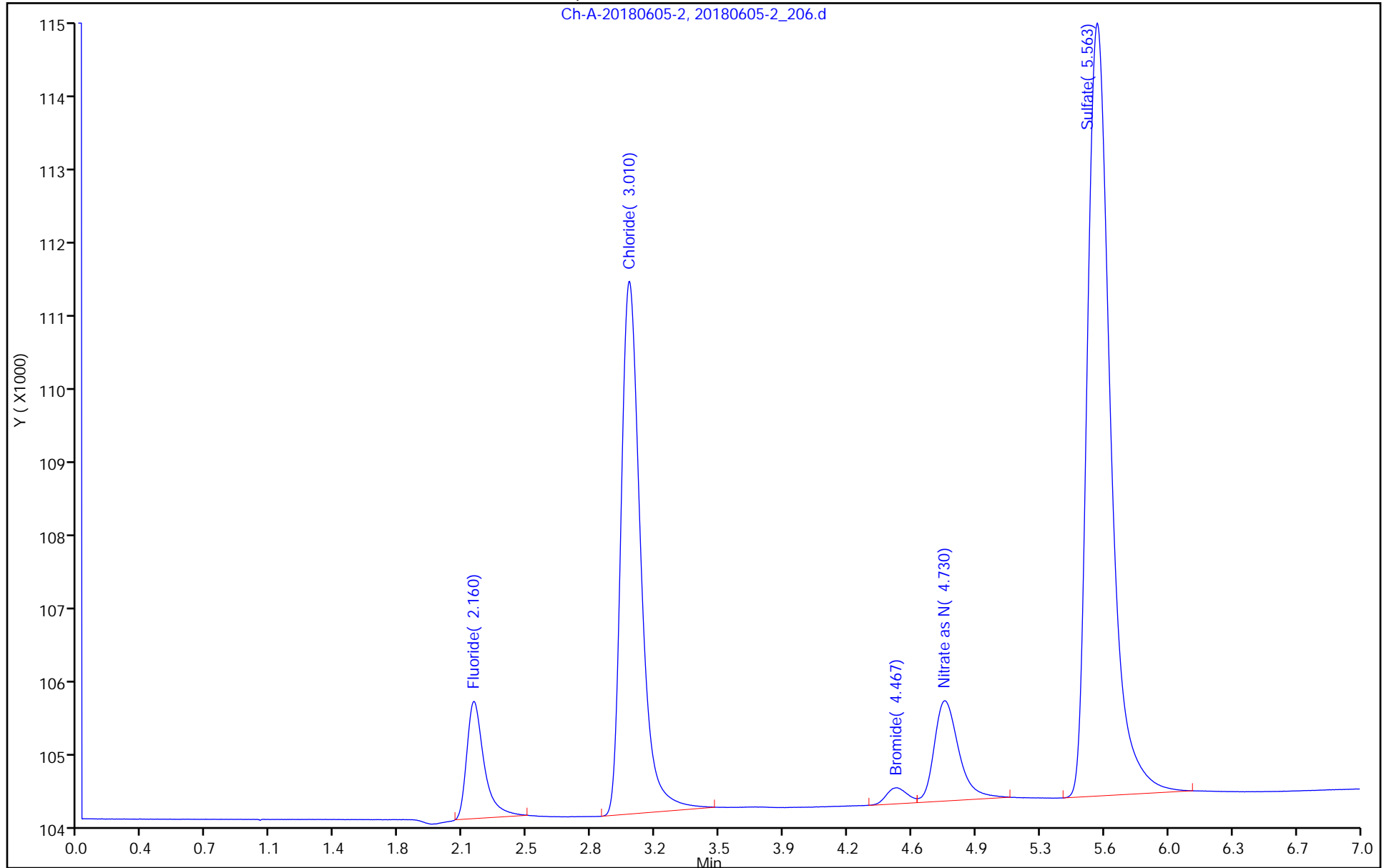
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

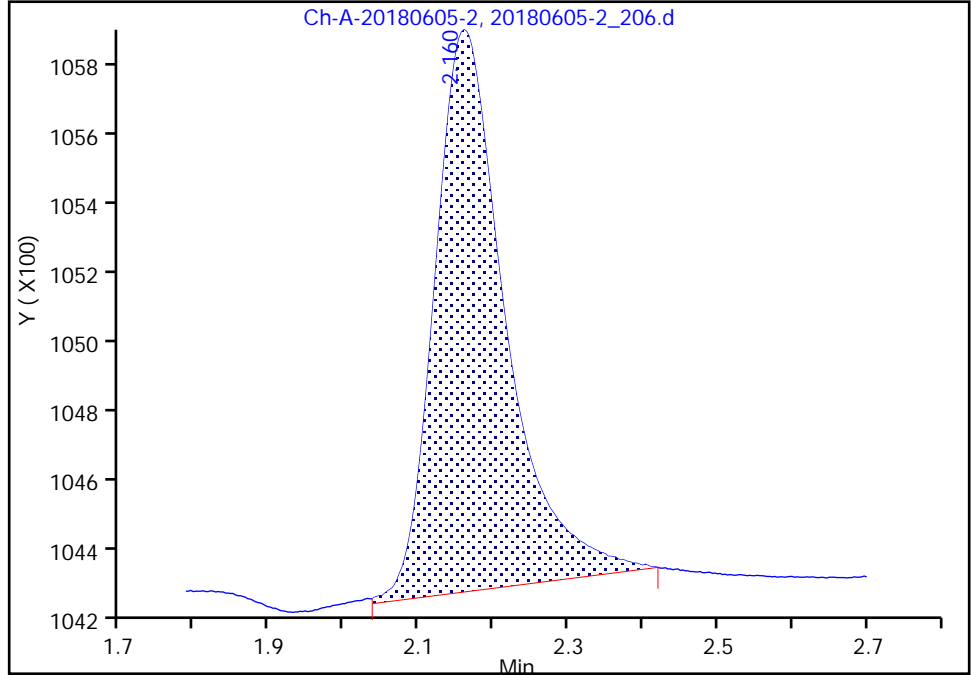
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_206.d
Injection Date: 08-Jun-2018 12:23:54 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

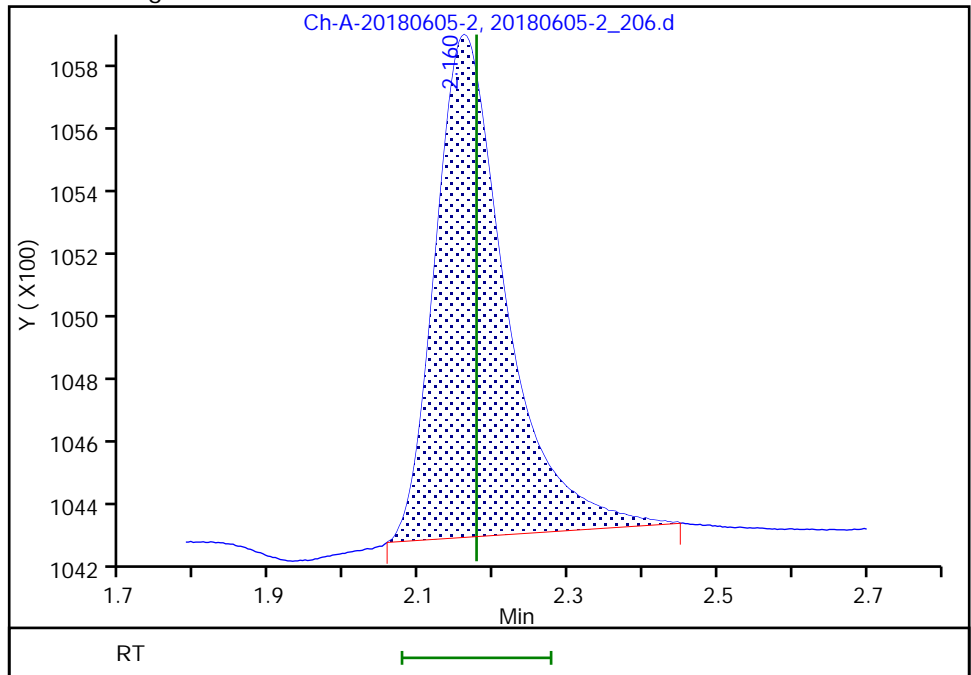
RT: 2.16
Area: 9859
Amount: 0.203727
Amount Units: ng/uL

Processing Integration Results



RT: 2.16
Area: 9688
Amount: 0.203483
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:29:02
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_207.d
 Lims ID: IC - STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Jun-2018 12:32:02 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 207 Name: IC - STD3
 Misc. Info.: Study: 480-0072157-007 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:55 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:29:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.163	2.177	-0.014	24111	0.5000	0.5617	M
2 Chloride						
3.010	3.000	0.010	127873	5.00	4.87	
3 Bromide						
4.460	4.437	0.023	4504	0.5000	0.4581	
4 Nitrate as N						
4.723	4.663	0.060	32079	NC	NC	
5 Sulfate						
5.547	5.410	0.137	151659	5.00	5.53	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 25.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_207.d

Injection Date: 08-Jun-2018 12:32:02

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD3

Worklist Smp#: 7

Client ID:

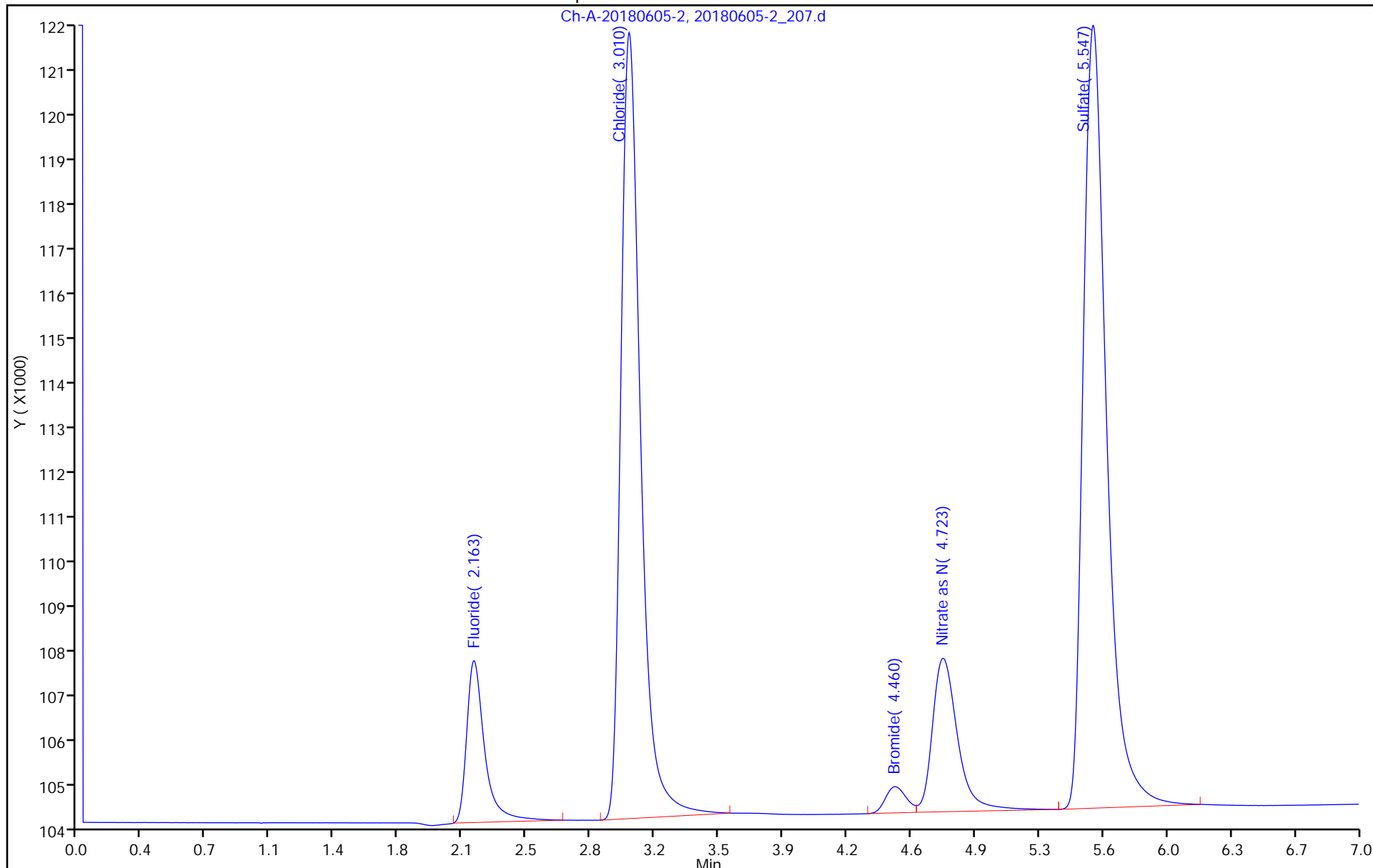
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

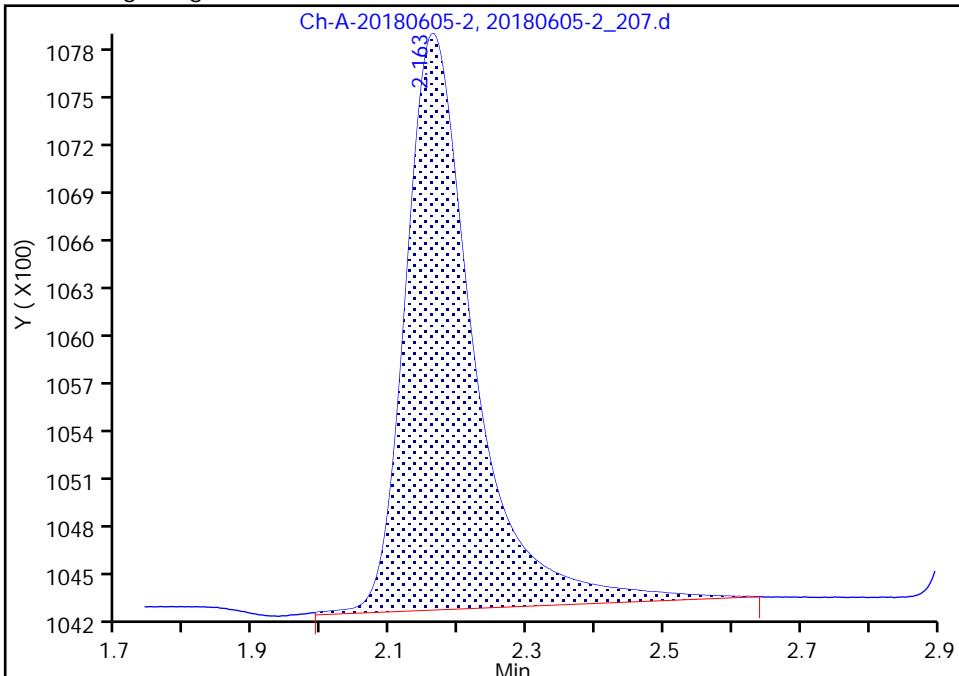
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_207.d
Injection Date: 08-Jun-2018 12:32:02 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

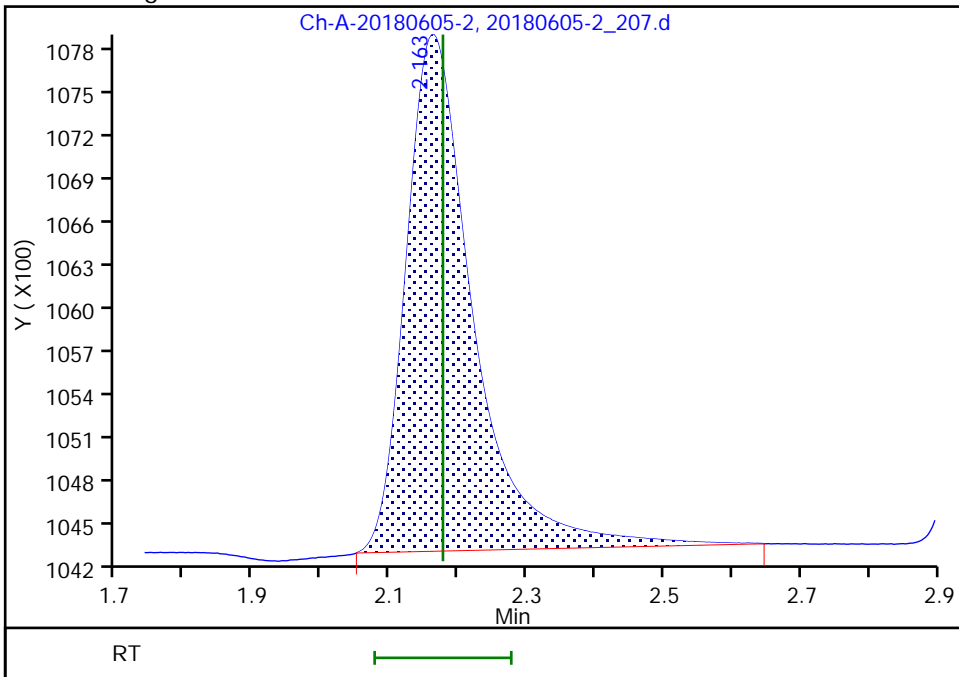
RT: 2.16
Area: 24789
Amount: 0.545636
Amount Units: ng/uL

Processing Integration Results



RT: 2.16
Area: 24111
Amount: 0.561666
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:29:35
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_208.d
 Lims ID: IC - STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Jun-2018 12:40:11 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 208 Name: IC - STD4
 Misc. Info.: Study: 480-0072157-008 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:51 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:41:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.170	2.177	-0.007	88282	2.00	2.16	M
2 Chloride						
3.007	3.000	0.007	526204	20.0	19.8	
3 Bromide						
4.457	4.437	0.020	20171	2.00	1.97	
4 Nitrate as N						
4.703	4.663	0.040	130528	NC	NC	
5 Sulfate						
5.497	5.410	0.087	454052	20.0	20.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_208.d

Injection Date: 08-Jun-2018 12:40:11

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD4

Worklist Smp#: 8

Client ID:

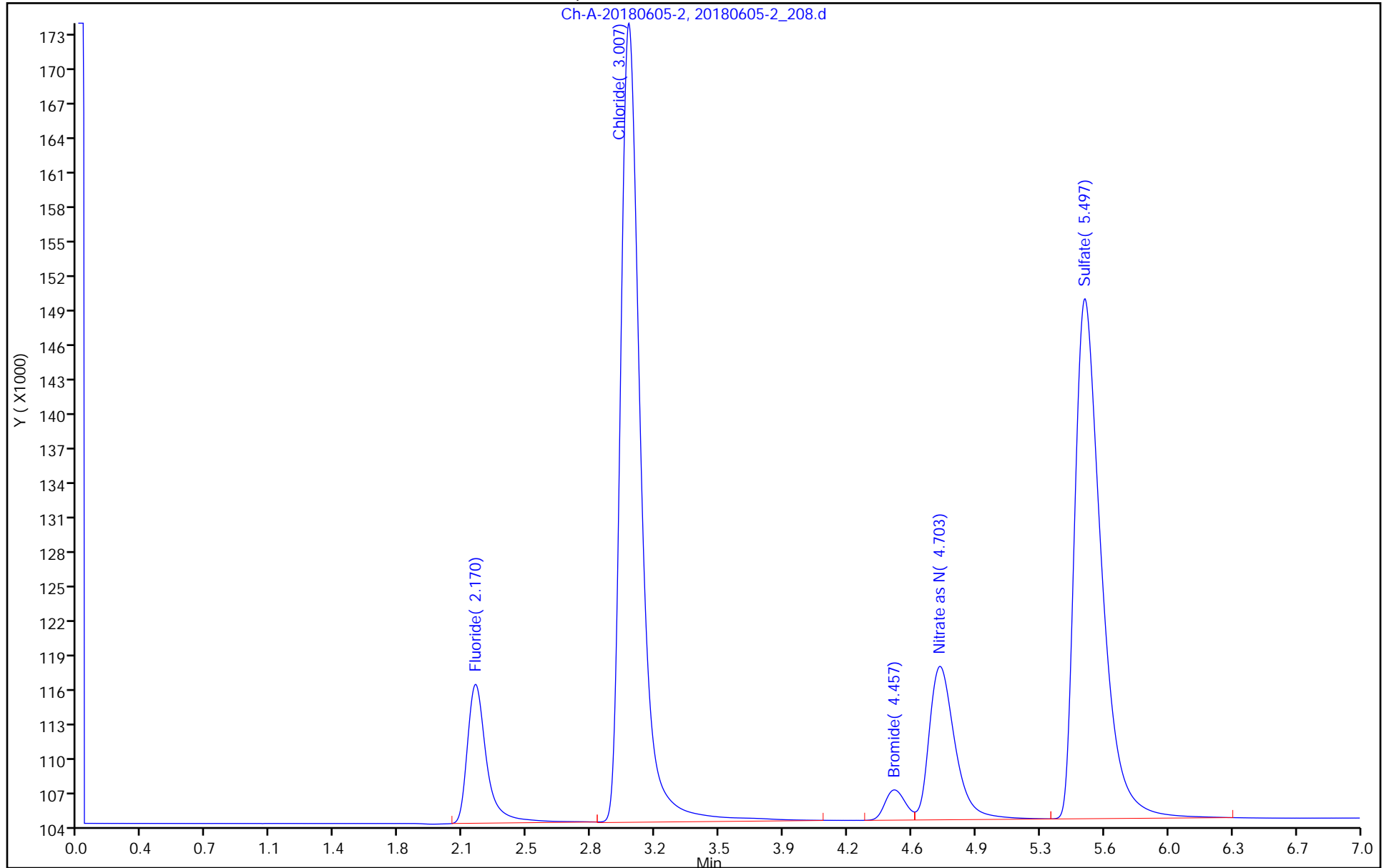
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

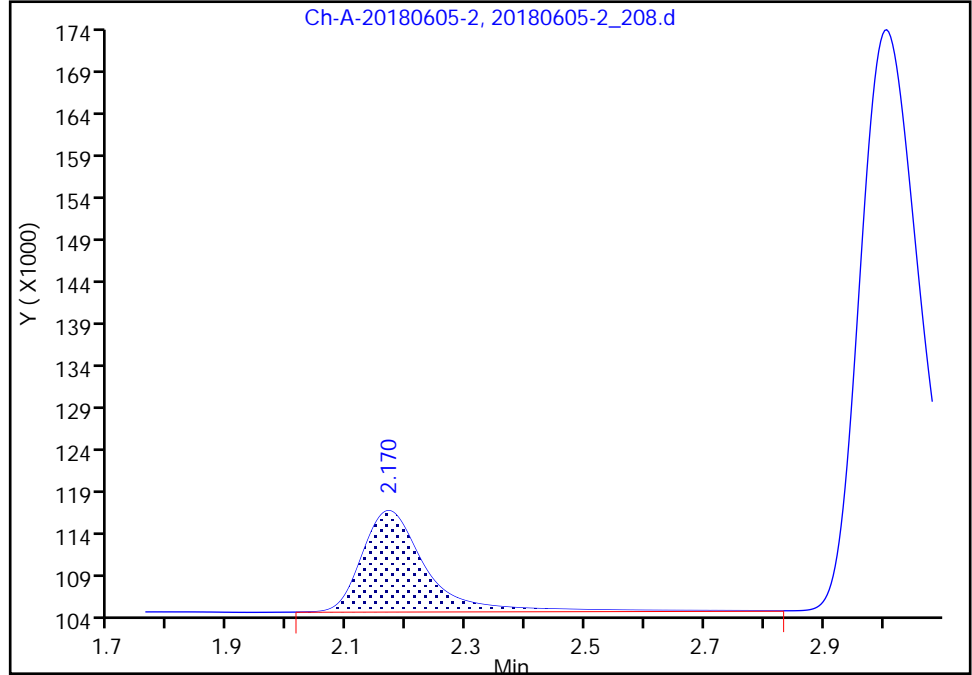
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_208.d
Injection Date: 08-Jun-2018 12:40:11 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

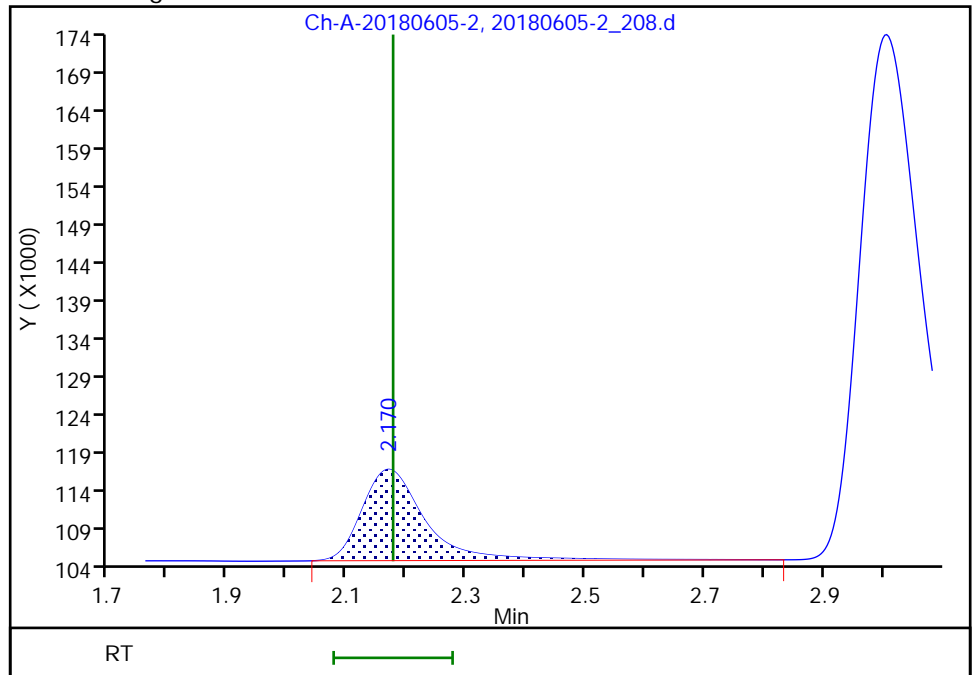
RT: 2.17
Area: 90635
Amount: 2.063616
Amount Units: ng/uL

Processing Integration Results



RT: 2.17
Area: 88282
Amount: 2.155300
Amount Units: ng/uL

Manual Integration Results



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_209.d
 Lims ID: IC - STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Jun-2018 12:48:19 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 209 Name: IC - STD5
 Misc. Info.: Study: 480-0072157-009 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:56 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:31:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.177	2.177	0.000	208282	5.00	5.14	M
2 Chloride						
3.000	3.000	0.000	1322227	50.0	49.6	
3 Bromide						
4.437	4.437	0.000	51545	5.00	4.98	
4 Nitrate as N						
4.663	4.663	0.000	333132	NC	NC	
5 Sulfate						
5.410	5.410	0.000	1062191	50.0	49.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_209.d

Injection Date: 08-Jun-2018 12:48:19

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD5

Worklist Smp#: 9

Client ID:

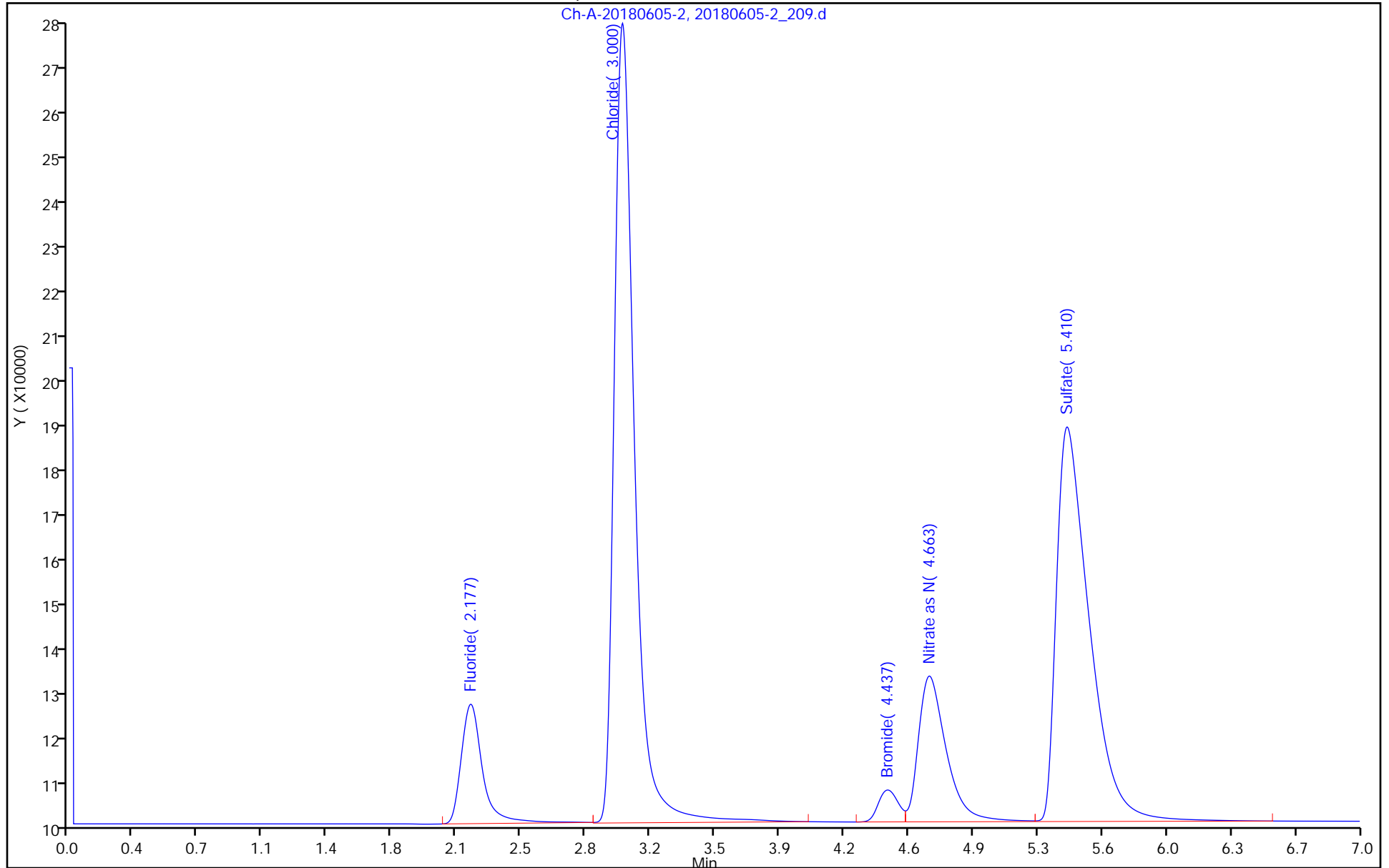
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

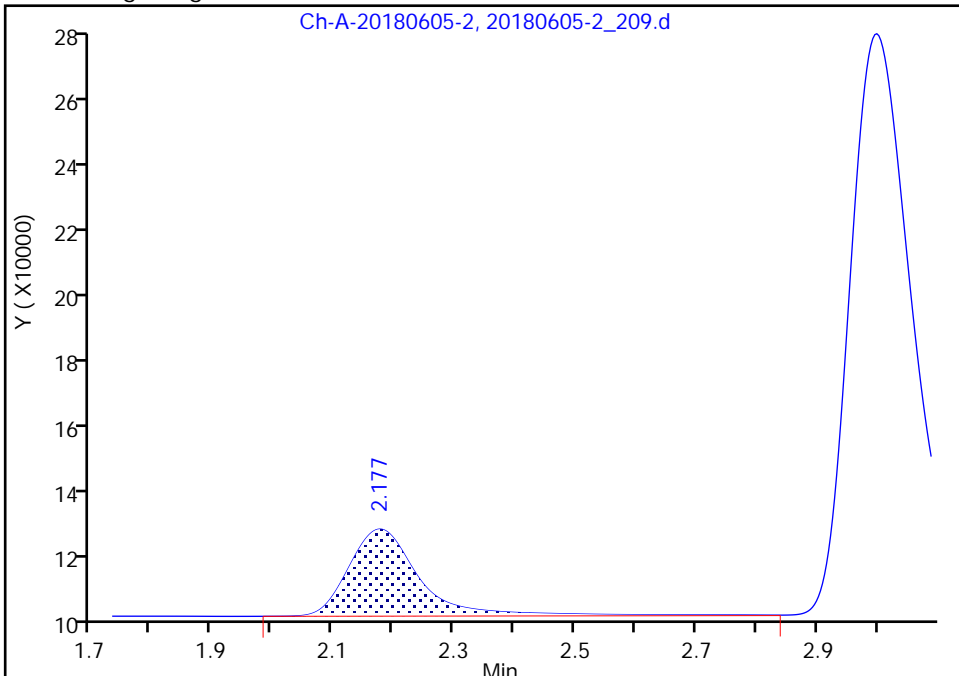
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_209.d
Injection Date: 08-Jun-2018 12:48:19 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

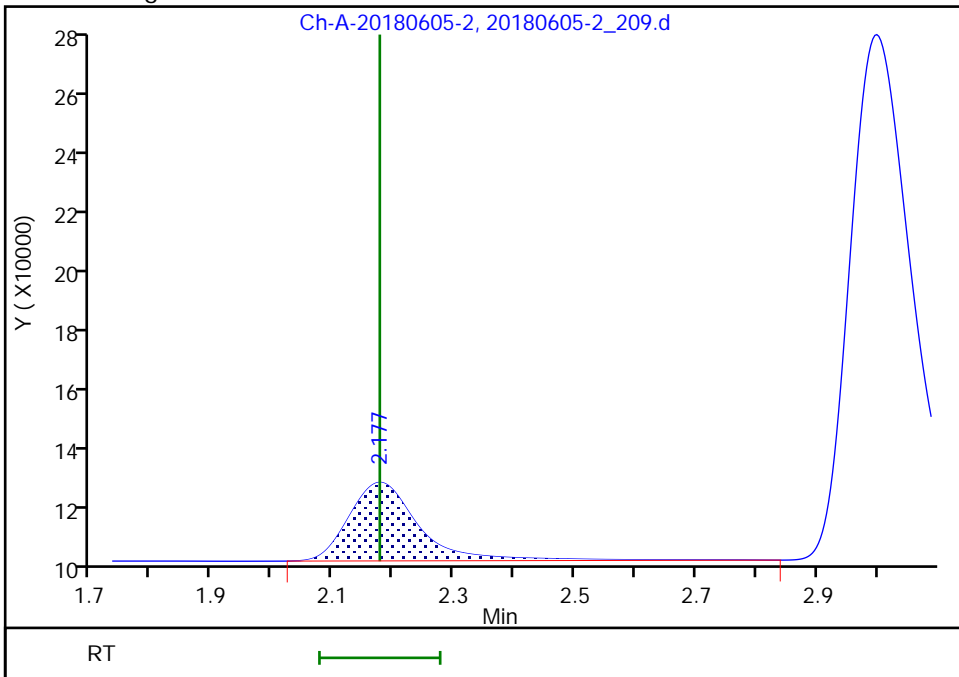
RT: 2.18
Area: 212343
Amount: 4.893537
Amount Units: ng/uL

Processing Integration Results



RT: 2.18
Area: 208282
Amount: 5.135401
Amount Units: ng/uL

Manual Integration Results



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Lims ID: IC - STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Jun-2018 12:56:28 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 210 Name: IC - STD6
 Misc. Info.: Study: 480-0072157-010 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:57 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:31:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.180	2.177	0.003	390261	10.0	9.65	M
2 Chloride						
2.990	3.000	-0.010	2685910	100.0	100.7	
3 Bromide						
4.407	4.437	-0.030	104780	10.0	10.1	
4 Nitrate as N						
4.603	4.663	-0.060	685568	NC	NC	
5 Sulfate						
5.327	5.410	-0.083	2080455	100.0	99.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 500.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Injection Date: 08-Jun-2018 12:56:28

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD6

Worklist Smp#: 10

Client ID:

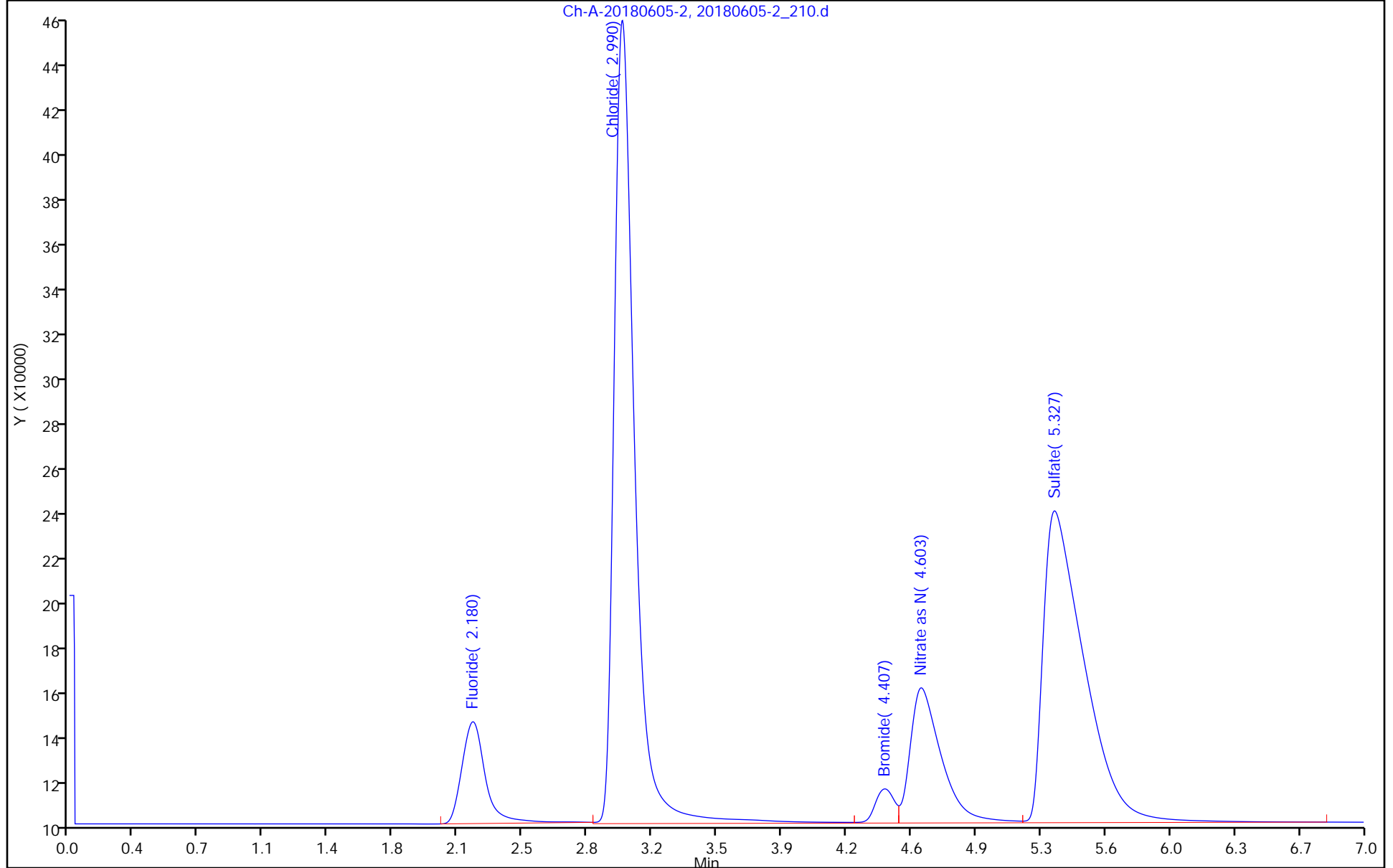
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

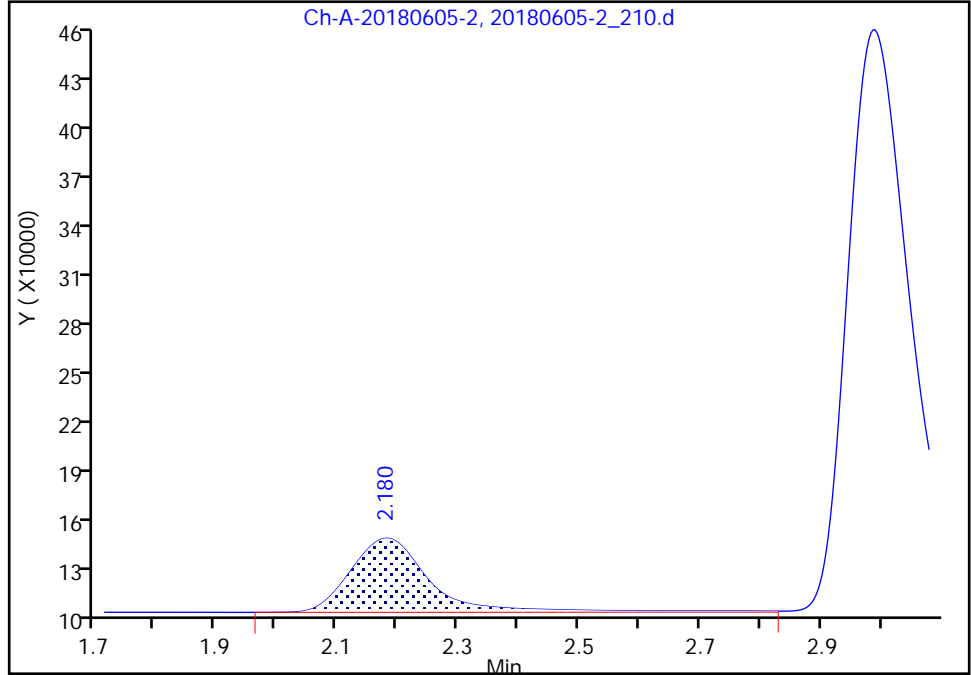
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
Injection Date: 08-Jun-2018 12:56:28 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

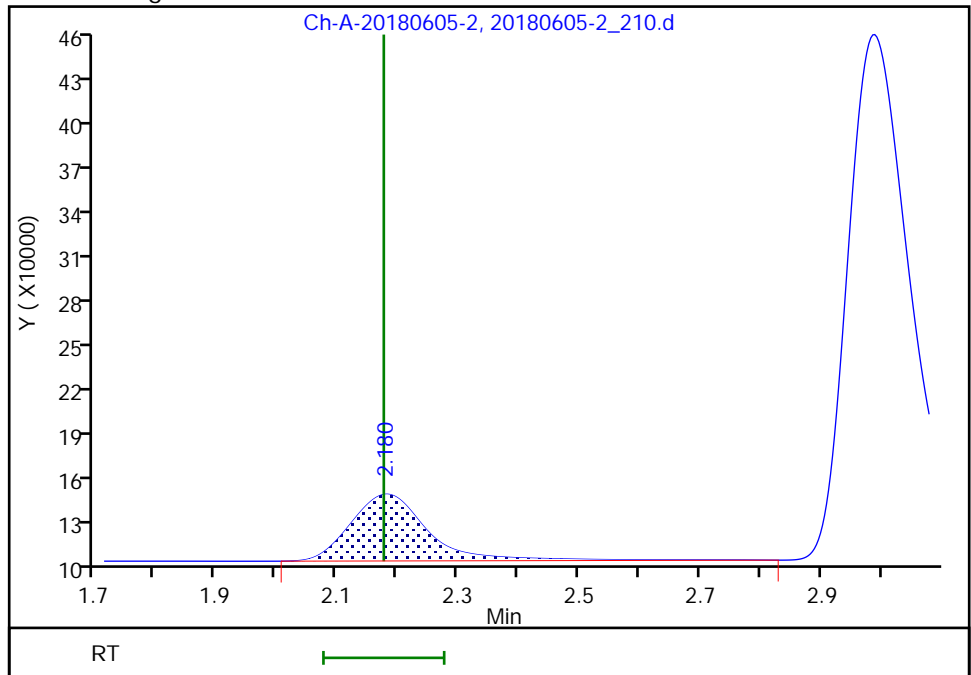
RT: 2.18
Area: 405252
Amount: 9.400333
Amount Units: ng/uL

Processing Integration Results



RT: 2.18
Area: 390261
Amount: 9.654699
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:31:39
Audit Action: Manually Integrated

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420960	Worklist: 72531	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. PK Area: Height Difference (314.0 PD _{A/H}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chruns, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst Initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	N/A			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420961	Worklist: 72531	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-Intercept < RL or < 1/2 RL (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte > RL In associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, Instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	N/A			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420962	Worklist:	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056 , 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	N/A			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 6-21-18
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\Chrom\NA\Buffalo\ChromData\IC-2\20180621-72531.B
 Upload Directory: \\CorptAL\SAPP17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 72531
 Chrom Method: IC2-300
 Units: ul

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-001	# 1 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-002	# 2 CCB		CCB	SV	5.000	mL	1.000
480-0072531-003	# 3 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-004	# 4 MB		MB	SV	5.000	mL	1.000
480-0072531-005	# 5 480-137560-E-1	20x (low) 2000x (low) 250ul to 5ml to 100ul to 5ml to 500ul to 5ml	Client 2000x 2000x	SV	5.000	mL	2000x
480-0072531-006	# 6 480-137605-E-1		Client	SV	5.000	mL	0.0
480-0072531-007	# 7 480-137605-E-3		Client	SV	5.000	mL	0.0
480-0072531-008	# 8 480-137713-D-1		Client	SV	5.000	mL	0.0
480-0072531-009	# 9 480-137509-B-2		Client	SV	5.000	mL	0.0
480-0072531-010	# 10 480-137509-B-3		Client	SV	5.000	mL	0.0
480-0072531-011	# 11 480-137509-B-3 MS		Client	SV	5.000	mL	0.0
480-0072531-012	# 12 480-137509-B-3 MSD		Client	SV	5.000	mL	0.0
480-0072531-013	# 13 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-014	# 14 CCB		CCB	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-015	#15 480-137509-B-4		Client	SV	5.000	mL	0.0
480-0072531-016	#16 480-137509-B-5		Client	SV	5.000	mL	0.0
480-0072531-017	#17 480-137509-B-6		Client	SV	5.000	mL	0.0
480-0072531-018	#18 480-137509-B-7		Client	SV	5.000	mL	0.0
480-0072531-019	#19 480-137527-E-1		Client	SV	5.000	mL	0.0
480-0072531-020	#20 480-137527-E-2		Client	SV	5.000	mL	0.0
480-0072531-021	#21 480-137537-A-1		Client	SV	5.000	mL	0.0
480-0072531-022	#22 480-137537-A-2		Client	SV	5.000	mL	0.0
480-0072531-023	#23 480-137537-A-3		Client	SV	5.000	mL	0.0
480-0072531-024	#24 480-137537-A-3 MS		Client	SV	5.000	mL	0.0
480-0072531-025	#25 CCV	IC_ANION_STD_00037	MS	SV	5.000	mL	0.0
480-0072531-026	#26 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-027	#27 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-028	#28 MB		MB	SV	5.000	mL	1.000
480-0072531-029	#29 480-137537-A-4		Client	SV	5.000	mL	0.0
480-0072531-030	#30 480-137537-A-5		Client	SV	5.000	mL	0.0
480-0072531-031	#31 480-137537-A-6		Client	SV	5.000	mL	0.0
480-0072531-032	#32 480-137537-A-7		Client	SV	5.000	mL	0.0

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-033	#33 480-137537-A-8		Client	SV	5.000	mL	0.0
480-0072531-034	#34 480-137537-A-9	897 μ S	Client	SV	5.000	mL	0.0
480-0072531-035	#35 480-137537-A-9 MS	530 μ S	Client	SV	5.000	mL	0.0
480-0072531-036	#36 480-137537-A-9 MSD		MSD	SV	5.000	mL	0.0
480-0072531-037	#37 CCV	IC_ANION_STD_00037	CCV	SV	5.000	mL	1.000
480-0072531-038	#38 CCB	IC_ANION_LCS_00207	CCB	SV	5.000	mL	1.000
480-0072531-039	#39 480-137537-A-10		Client	SV	5.000	mL	0.0
480-0072531-040	#40 480-137465-G-1	601 μ S	Client	SV	5.000	mL	0.0
480-0072531-041	#41 480-137347-B-1		Client	SV	5.000	mL	0.0
480-0072531-042	#42 480-137360-F-2		Client	SV	5.000	mL	0.0
480-0072531-043	#43 480-137360-F-3		Client	SV	5.000	mL	0.0
480-0072531-044	#44 480-137365-G-7		Client	SV	5.000	mL	0.0
480-0072531-045	#45 480-137369-F-1		Client	SV	5.000	mL	0.0
480-0072531-046	#46 480-137425-I-1		Client	SV	5.000	mL	0.0
480-0072531-047	#47 480-137425-I-2		Client	SV	5.000	mL	0.0
480-0072531-048	#48 480-137425-I-2 MS		MS	SV	5.000	mL	0.0
480-0072531-049	#49 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-050	#50 CCB	IC_ANION_STD_00037	CCB	SV	5.000	mL	1.000

06/25/2018

Ion Chromatography Data Review Checklist

LIMS Batch Number: <u>420962</u>	Worklist: <u>9283</u>	Instrument ID (circle one): IC1 <input type="radio"/> IC2 <input checked="" type="radio"/> IC3 <input type="radio"/> ICA <input type="radio"/>
Analyst/1 st Reviewer: <u>DR</u>	Method (circle): 300.0, 314.0, <u>9056</u> , 7199, SM4110 VFA	QC Type (circle) <u>Standard</u> QAPP Other
Matrix (circle): Drinking Water Non-potable <u>Water</u> Solid Leachate		<u>137527</u> , <u>137605</u>

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		/	
2. Elution order of analytes in ICAL confirmed to be correct		Y		/	
3. Linearity and Intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y		/	
4. ICV, second source: run before samples 90-110% recovery		Y		/	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y		/	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y		/	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X			/	If no, list details:
8. Pk Area:Height Difference (314.0 PD _{WH}): Before samples $< 25\%$	X			/	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y		/	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after choms, date, initial, & reason)		Y		/	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) if no, list blank ID & explain:		Y		/	<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) if no, list LCS ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

TestAmerica [lab name]

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y		/	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Out of control QC is clearly identified	Y		/	
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y		/	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		/	
16. Run Log				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Analyst initials/signature provided	Y		/	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y		/	
b. Method and matrix are correct	Y		/	
c. Date and time match raw data	Y		/	
d. Dilutions are correct	Y		/	
e. Correct suffix designated (where applicable)	NA		NO	
18. TALS Worksheet Tab is complete and correct	Y		/	
19. TALS Reagent Tab is complete and correct	Y		/	
20. TALS QC Links Tab is correct	Y		/	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y		/	
b. All reported analytes are marked Primary or Secondary	Y		/	
22. TALS Batch Information Screen documentation is complete	Y		/	
23. TALS Status set to appropriate review level	Y		/	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			/	
25. Results for samples and QC correct on final report?			/	
26. Are all necessary scanned documents in TALS?			/	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			/	

2nd Reviewer: Wilaiwan T Review Date: 6/25/18

Comments: _____

Wilaiwan T

TestAmerica Laboratories
Worklist Report

Worklist Name: 6-21-18
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: W:\Chrom\NALB\Falko\ChromData\IC-2\20180621-72531.b
 Upload Directory: W:\CPITAL\SAPP\17480-BF-RawData\Organics\MS\IC-2

Worklist Number: 72531
 Chrom Method: IC2-300
 Units: ul

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-001	# 1 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-002	# 2 CCB		CCB	SV	5.000	mL	1.000
480-0072531-003	# 3 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-004	# 4 MB		MB	SV	5.000	mL	1.000
480-0072531-005	# 5 480-137560-E-1	20x (low) 2000x (low) 2000x 250 ul → 5 mL → 1000 ul → 5 mL → 500 ul → 5 mL	Client 10x	SV	5.000	mL	20000
480-0072531-006	# 6 480-137605-E-1		Client 10x	SV	5.000	mL	0.0
480-0072531-007	# 7 480-137605-E-3		Client 10x	SV	5.000	mL	0.0
480-0072531-008	# 8 480-137713-D-1		Client 10x	SV	5.000	mL	0.0
480-0072531-009	# 9 480-137509-B-2		Client 1x	SV	5.000	mL	0.0
480-0072531-010	# 10 480-137509-B-3		Client 10x	SV	5.000	mL	0.0
480-0072531-011	# 11 480-137509-B-3 MS	1638 mS	Client SX	SV	5.000	mL	0.0
480-0072531-012	# 12 480-137509-B-3 MSD		Client 10x	SV	5.000	mL	0.0
480-0072531-013	# 13 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-014	# 14 CCB		CCB	SV	5.000	mL	1.000

Wainman

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-015	#15 480-137509-B-4		Client	SV	5.000	mL	0.0
480-0072531-016	#16 480-137509-B-5	3.7 mS	Client	SV	5.000	mL	0.0
480-0072531-017	#17 480-137509-B-6	2.92 mS	Client	SV	5.000	mL	0.0
480-0072531-018	#18 480-137509-B-7	27.3 mS	Client	SV	5.000	mL	0.0
480-0072531-019	#19 480-137527-E-1	334 mS	Client	SV	5.000	mL	0.0
480-0072531-020	#20 480-137527-E-2	3.14 mS	Client	SV	5.000	mL	0.0
480-0072531-021	#21 480-137537-A-1	4.34 mS	Client	SV	5.000	mL	0.0
480-0072531-022	#22 480-137537-A-2	332 mS	Client	SV	5.000	mL	0.0
480-0072531-023	#23 480-137537-A-3	558 mS	Client	SV	5.000	mL	0.0
480-0072531-024	#24 480-137537-A-3 MS	526	Client	SV	5.000	mL	0.0
480-0072531-025	#25 CCV	IC_ANION_STD_00037	MS	SV	5.000	mL	0.0
480-0072531-026	#26 CCB	IC_ANION_LCS_00207	CCB	SV	5.000	mL	1.000
480-0072531-027	#27 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-028	#28 MB		MB	SV	5.000	mL	1.000
480-0072531-029	#29 480-137537-A-4		Client	SV	5.000	mL	0.0
480-0072531-030	#30 480-137537-A-5	524	Client	SV	5.000	mL	0.0
480-0072531-031	#31 480-137537-A-6	628	Client	SV	5.000	mL	0.0
480-0072531-032	#32 480-137537-A-7	612	Client	SV	5.000	mL	0.0
		367	Client	SV	5.000	mL	0.0

W. L. Wainwright
06/25/2018

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-033	#33 480-137537-A-8		Client	SV	5.000	mL	0.0
480-0072531-034	#34 480-137537-A-9	592 <i>uS</i>	Client	SV	2.5 mL	5 mL	0.0
480-0072531-035	#35 480-137537-A-9 MS	530 <i>uS</i>	Client	SV	5.000	mL	0.0
480-0072531-036	#36 480-137537-A-9 MSD	IC_ANION_STD_00037	MS	SV	5.000	mL	0.0
480-0072531-037	#37 CCV	IC_ANION_STD_00037	MSD	SV	5.000	mL	0.0
480-0072531-038	#38 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-039	#39 480-137537-A-10		CCB	SV	5.000	mL	1.000
480-0072531-040	#40 480-137465-G-1	601 <i>uS</i>	Client	SV	2.5 mL	5 mL	0.0
480-0072531-041	#41 480-137347-B-1		Client	SV	1 mL	5 mL	5.000
480-0072531-042	#42 480-137360-F-2		Client	SV	2.5 mL	5 mL	2.000
480-0072531-043	#43 480-137360-F-3		Client	SV	5.000	mL	5.000
480-0072531-044	#44 480-137365-G-7		Client	SV	1 mL	5 mL	5.000
480-0072531-045	#45 480-137369-F-1		Client	SV	5.000	mL	1.000
480-0072531-046	#46 480-137425-I-1		Client	SV	5.000	mL	5.000
480-0072531-047	#47 480-137425-I-2		Client	SV	100 <i>uL</i>	5 mL	50.000
480-0072531-048	#48 480-137425-I-2 MS	IC_ANION_STD_00037	MS	SV	5.000	mL	50.000
480-0072531-049	#49 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-050	#50 CCB		CCB	SV	5.000	mL	1.000

Wilkinson
 06/25/2018

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_170.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 20:30:42 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 170 Name: CCV
 Misc. Info.: Study: 480-0072531-001 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:32:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.140	2.140	0.000	206911	5.00	5.10	M
2 Chloride						
2.907	2.907	0.000	1346550	50.0	50.5	
3 Bromide						
4.263	4.263	0.000	37482	5.00	3.63	
4 Nitrate as N						
4.483	4.483	0.000	326847	NC	NC	
5 Sulfate						
5.137	5.137	0.000	1092133	50.0	51.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_170.d

Injection Date: 21-Jun-2018 20:30:42

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 1

Client ID:

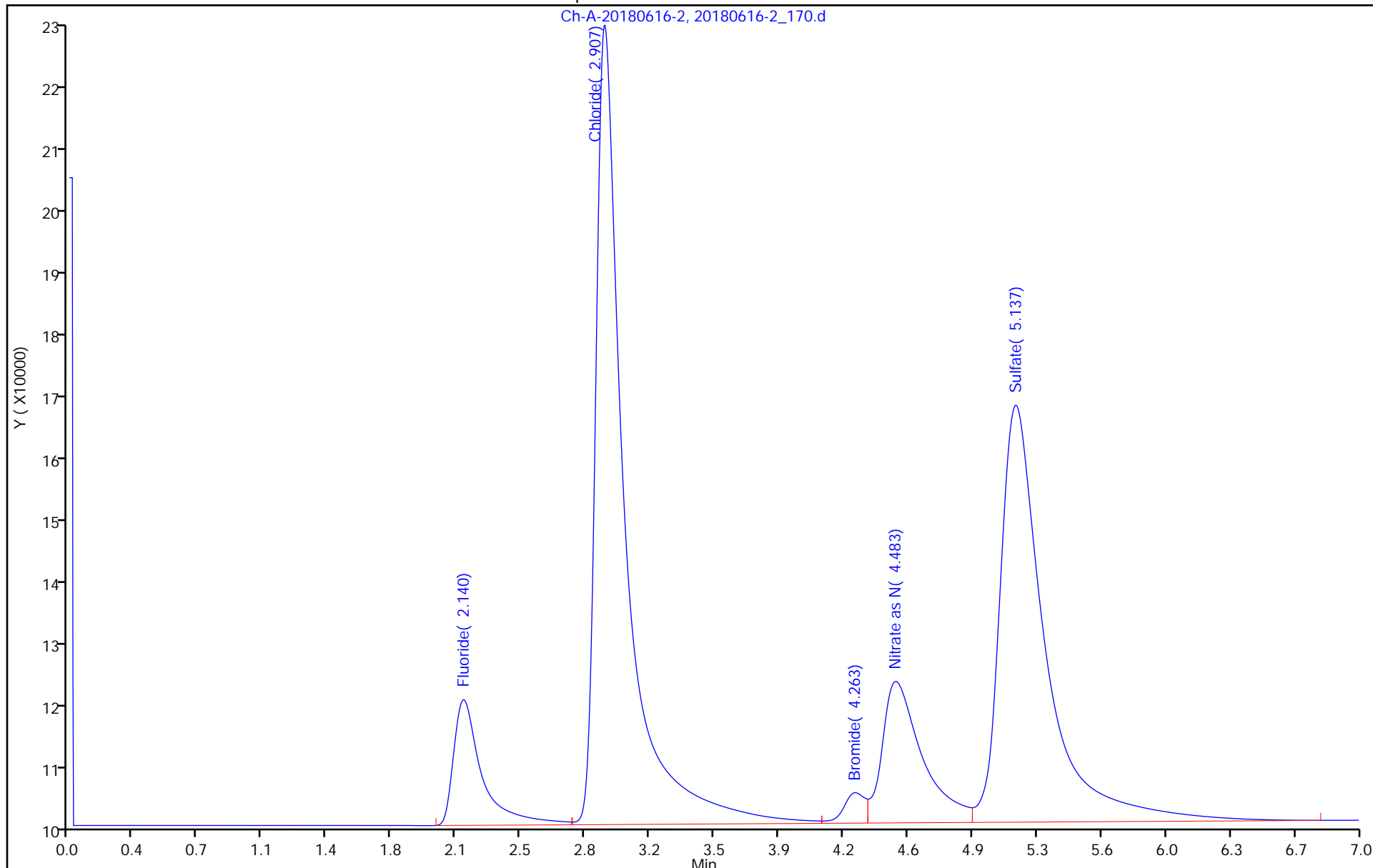
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_171.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 20:38:51 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 171 Name: CCB
 Misc. Info.: Study: 480-0072531-002 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:33:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate						M
5.323	5.143	0.180	7443		-1.48	M

QC Flag Legend

Review Flags

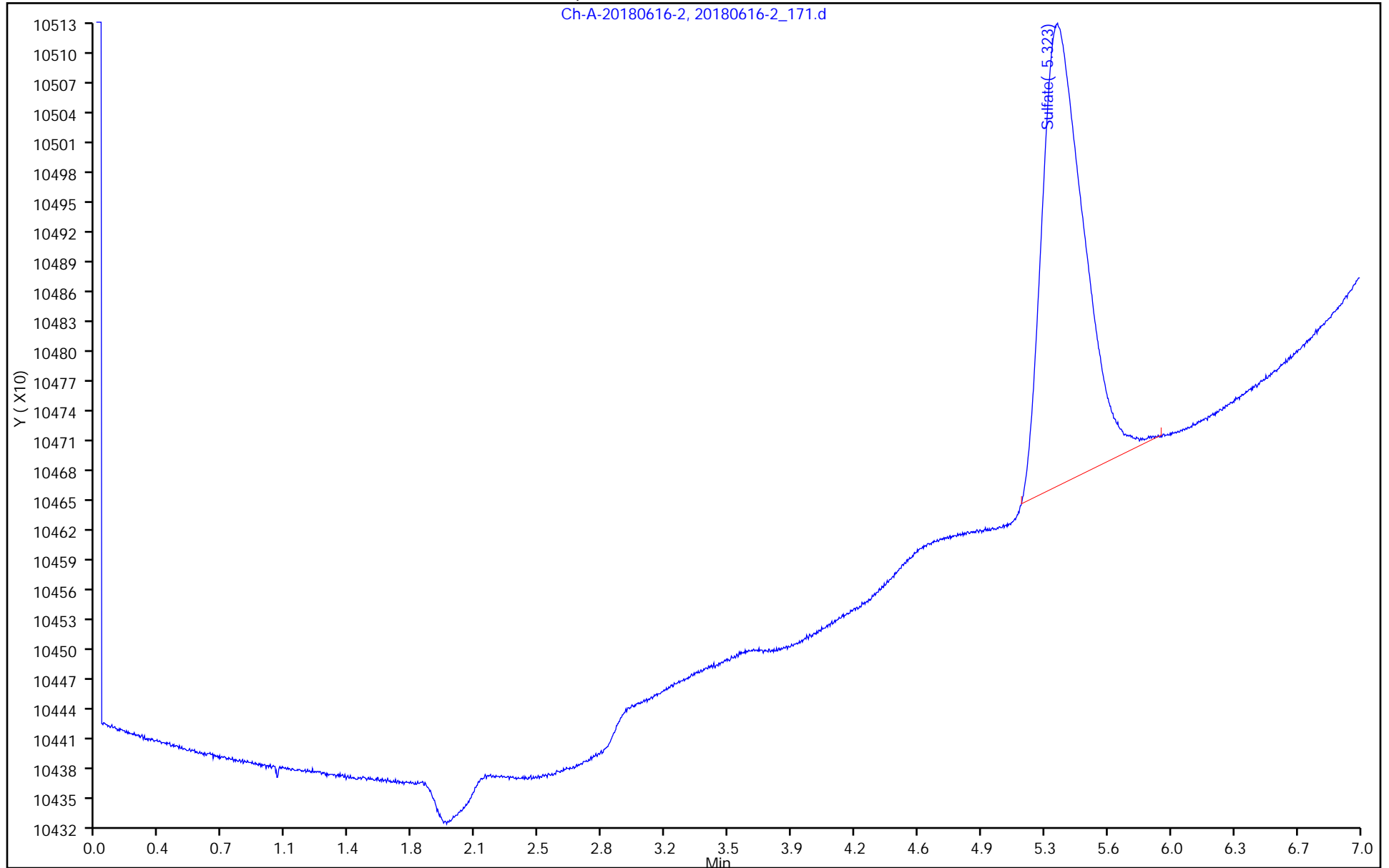
M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_171.d
Injection Date: 21-Jun-2018 20:38:51 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: TChrom
Worklist Smp#: 2
ALS Bottle#: 0

Ch-A-20180616-2, 20180616-2_171.d



TestAmerica Buffalo

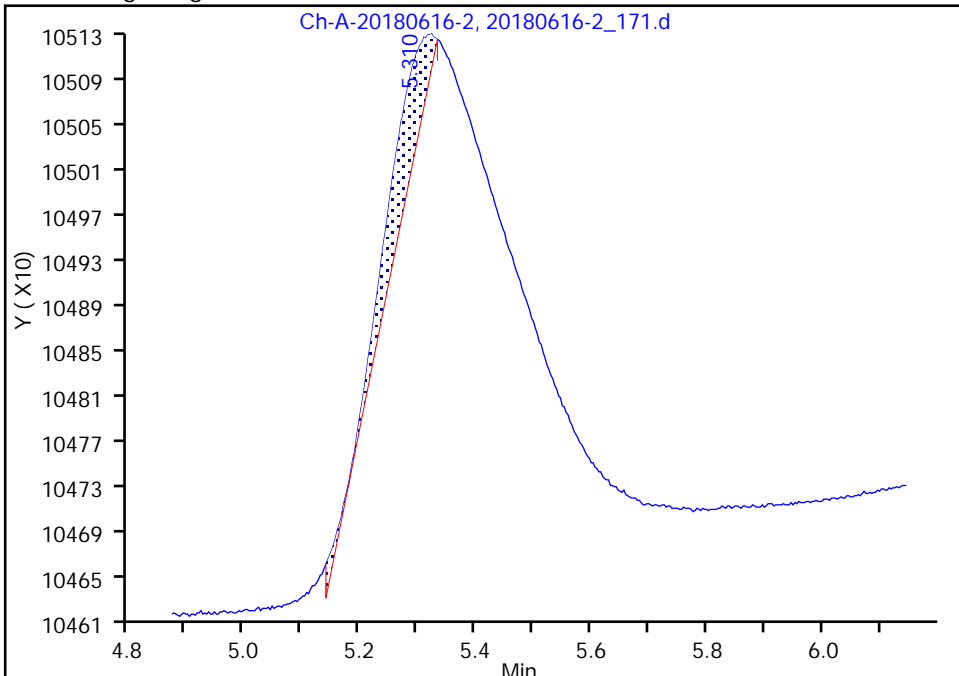
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_171.d
Injection Date: 21-Jun-2018 20:38:51 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

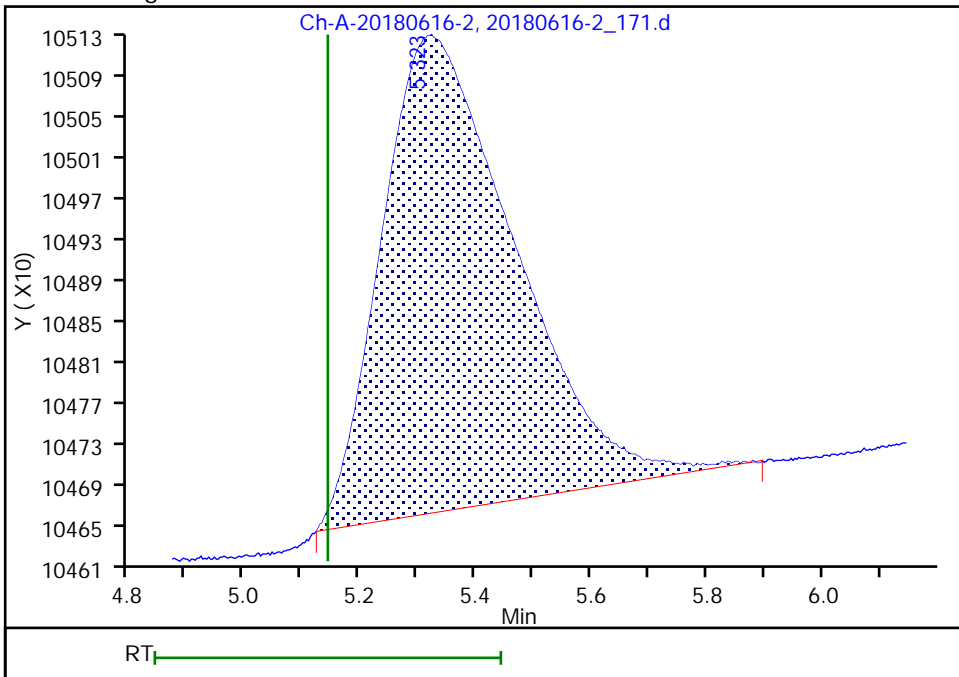
RT: 5.31
Area: 481
Amount: -1.819952
Amount Units: ng/uL

Processing Integration Results



RT: 5.32
Area: 7443
Amount: -1.481541
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 21-Jun-2018 21:33:07
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
Page 414 of 444

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_172.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Jun-2018 20:46:59 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 172 Name: LCS
 Misc. Info.: Study: 480-0072531-003 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 25-Jun-2018 16:22:12 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK011

First Level Reviewer: thongjanw Date: 25-Jun-2018 16:22:12

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.140	2.150	-0.010	212088	5.00	5.23	M
2 Chloride						
2.907	2.917	-0.010	1348794	50.0	50.6	
3 Bromide						
4.267	4.273	-0.006	35278	5.00	3.42	
4 Nitrate as N						
4.487	4.493	-0.006	324336	NC	NC	
5 Sulfate						
5.143	5.143	0.000	1094070	50.0	51.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_172.d

Injection Date: 21-Jun-2018 20:46:59

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: LCS

Worklist Smp#: 3

Client ID:

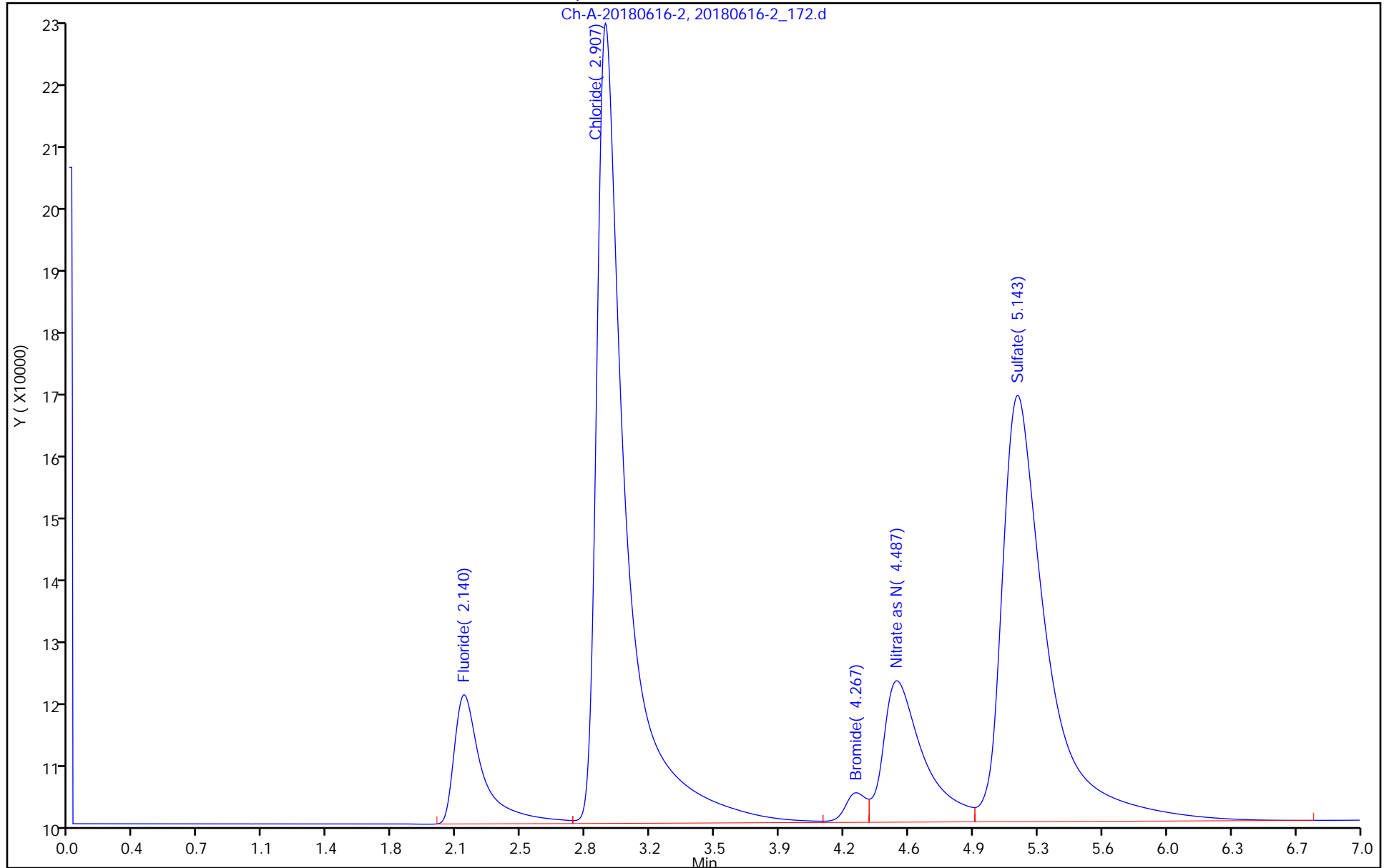
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_173.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Jun-2018 20:55:08 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 173 Name: MB
 Misc. Info.: Study: 480-0072531-004 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:33:20

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate
 5.320 5.143 0.177 7772 -1.47

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_173.d

Injection Date: 21-Jun-2018 20:55:08

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: MB

Worklist Smp#: 4

Client ID:

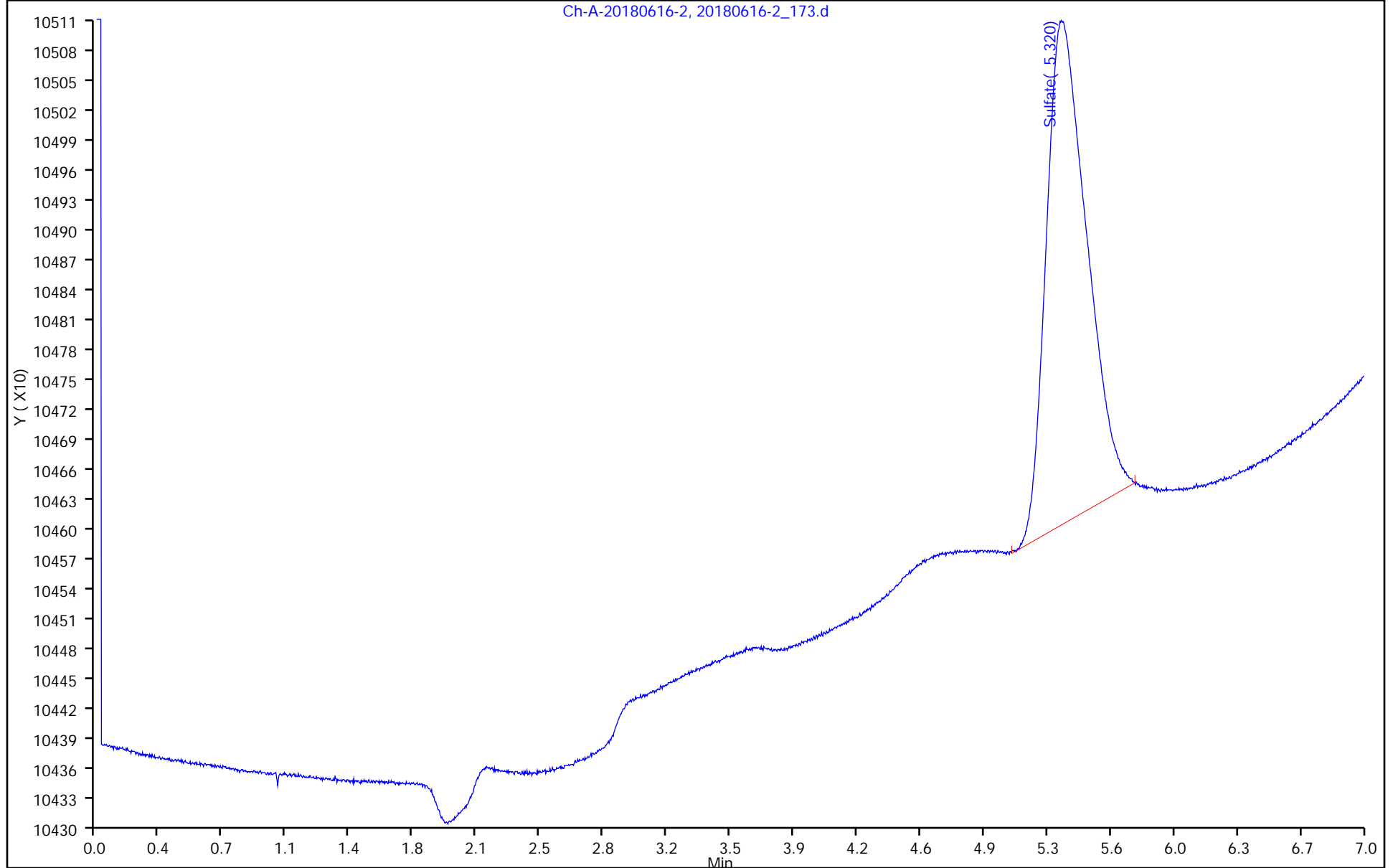
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_182.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 22:08:25 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 182 Name: CCV
 Misc. Info.: Study: 480-0072531-013 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:24 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:21:19

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.147	2.147	0.000	212887	5.00	5.25	M
2 Chloride						
2.917	2.917	0.000	1363375	50.0	51.2	
3 Bromide						
4.273	4.273	0.000	35862	5.00	3.47	
4 Nitrate as N						
4.493	4.493	0.000	326508	NC	NC	
5 Sulfate						
5.140	5.140	0.000	1095287	50.0	51.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_182.d

Injection Date: 21-Jun-2018 22:08:25

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 13

Client ID:

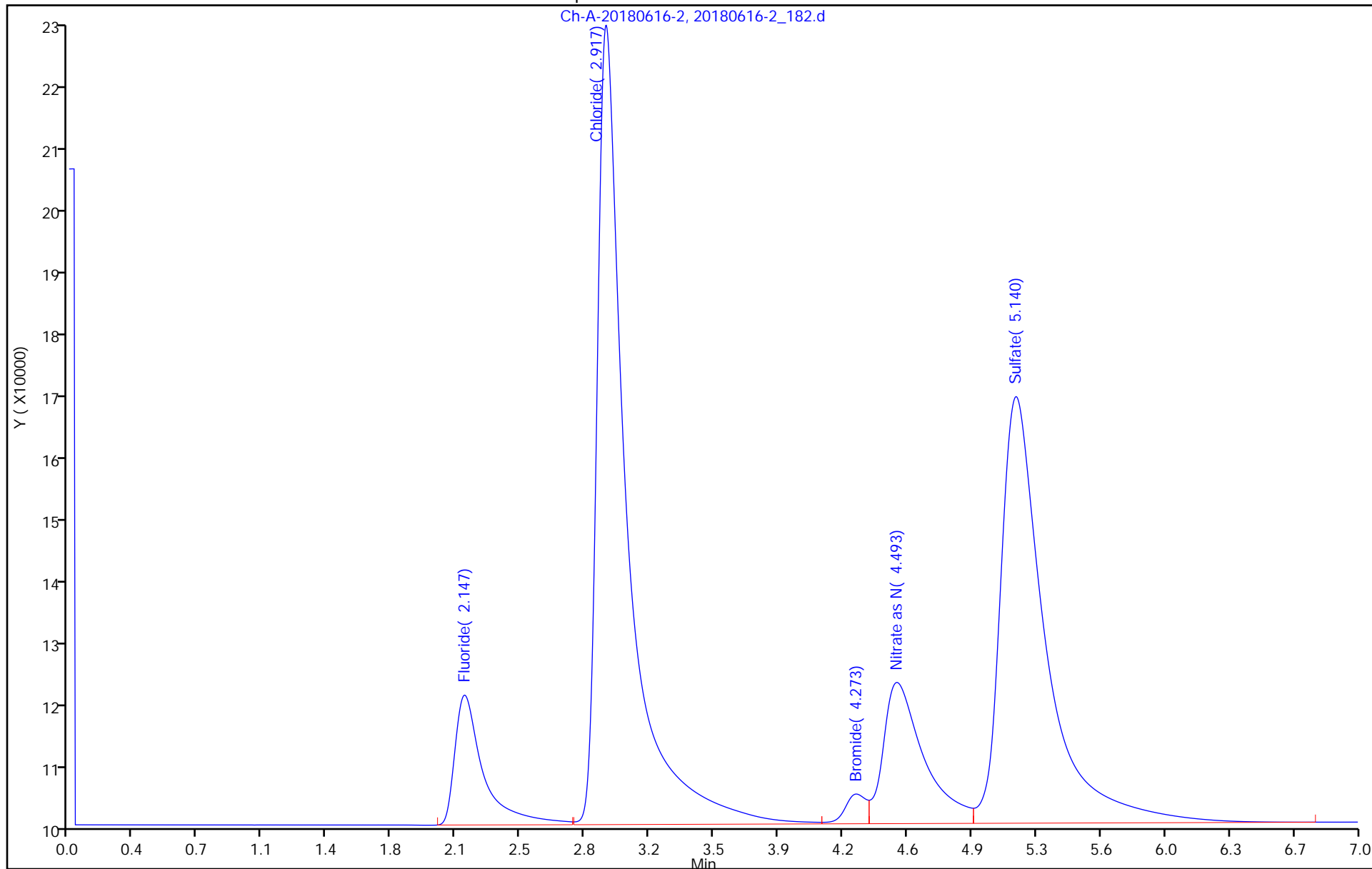
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_183.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 22:16:34 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 183 Name: CCB
 Misc. Info.: Study: 480-0072531-014 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:24 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:21:22

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate	5.337	5.137	0.200	8913	-1.41	
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_183.d

Injection Date: 21-Jun-2018 22:16:34

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCB

Worklist Smp#: 14

Client ID:

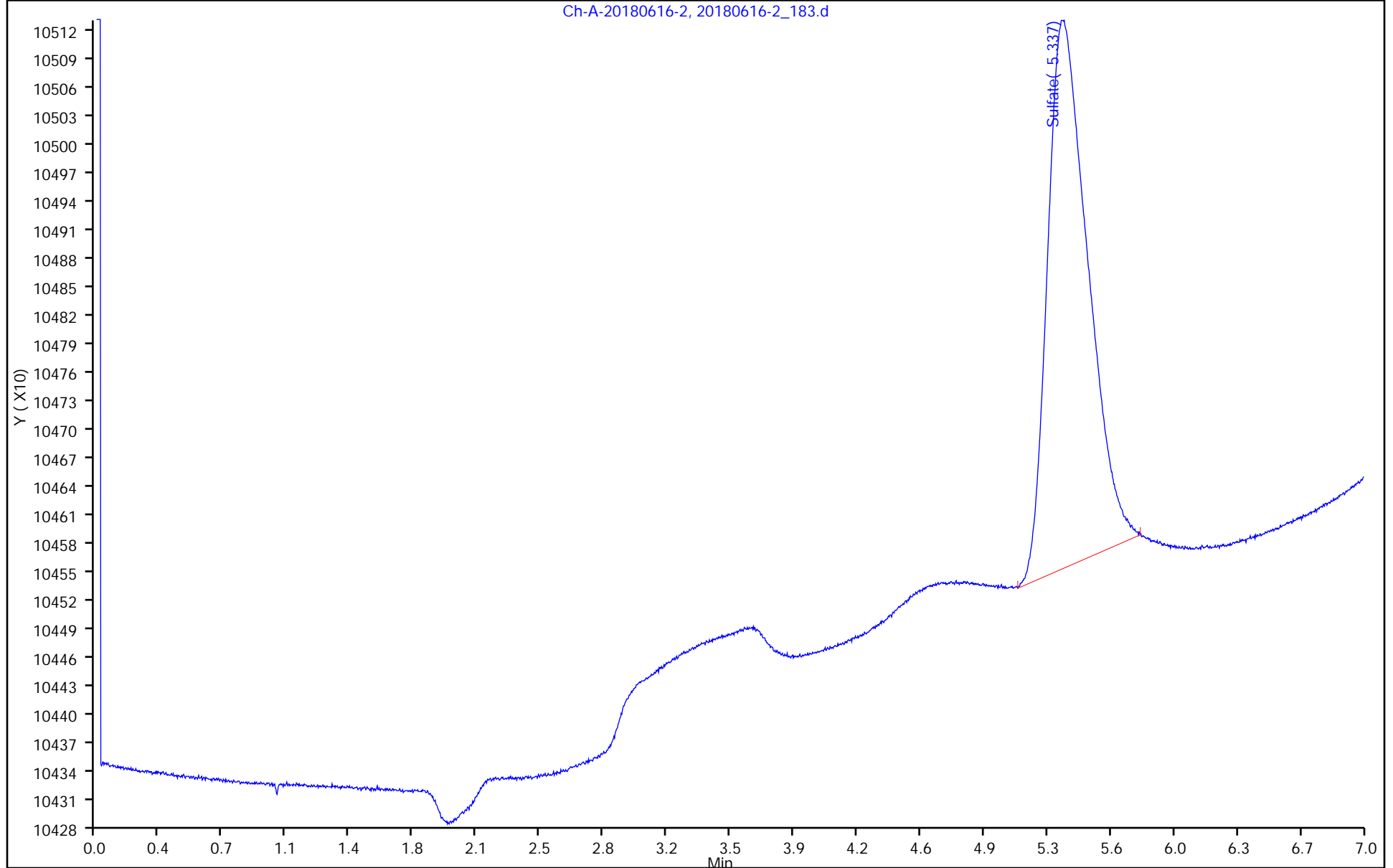
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_188.d
 Lims ID: 480-137527-E-1
 Client ID: ML-7-I
 Sample Type: Client
 Inject. Date: 21-Jun-2018 22:57:17 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 188 Name: 480-137527-E-1
 Misc. Info.: Study: 480-0072531-019 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:24 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:21:33

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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2 Chloride					
2.917	2.907	0.010	2486342	93.3	
5 Sulfate					
5.293	5.137	0.156	5286	-1.59	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_188.d

Injection Date: 21-Jun-2018 22:57:17

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: 480-137527-E-1

Lab Sample ID: 480-137527-1

Worklist Smp#: 19

Client ID: ML-7-I

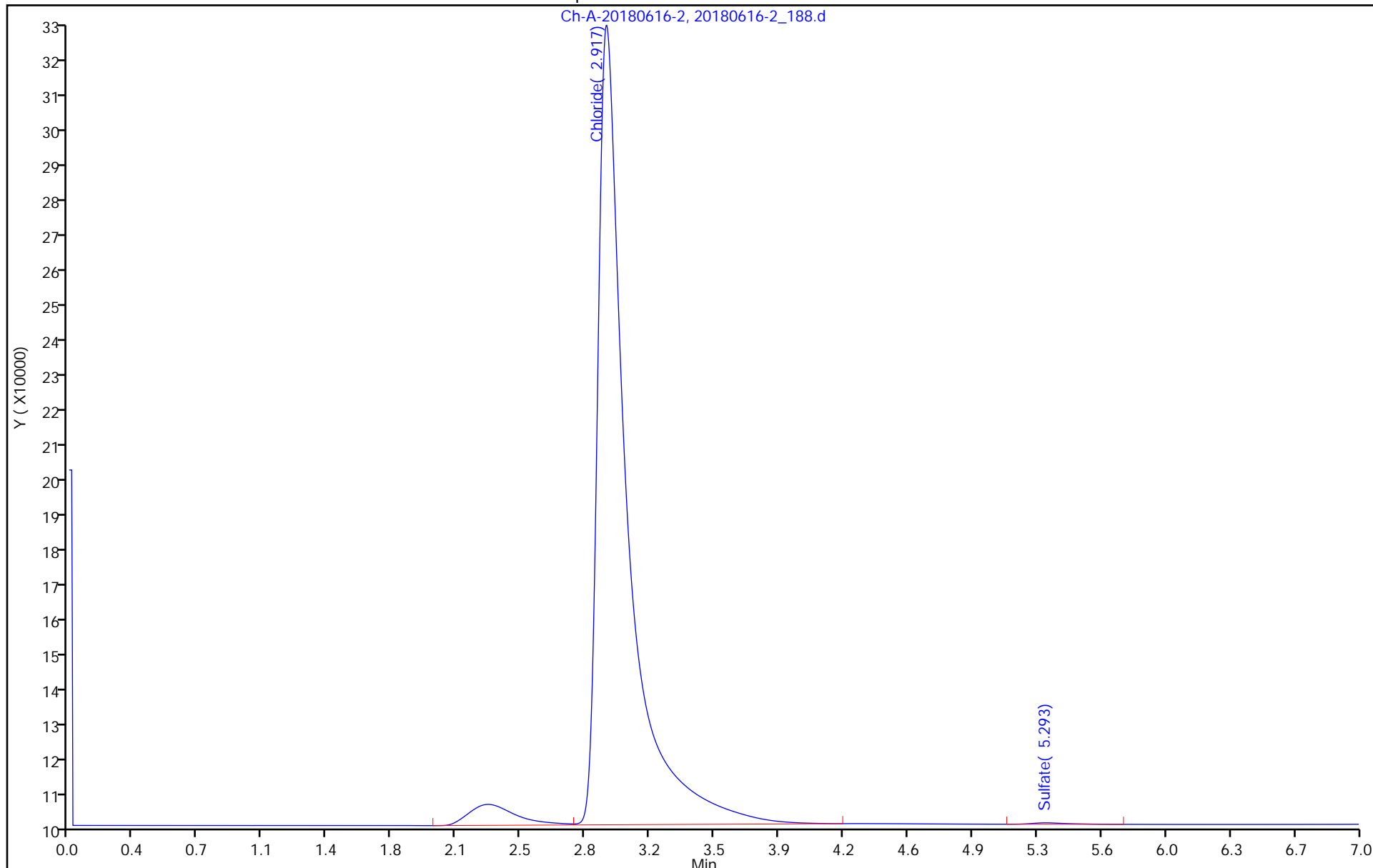
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_189.d
 Lims ID: 480-137527-E-2
 Client ID: ML-7-D
 Sample Type: Client
 Inject. Date: 21-Jun-2018 23:05:25 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: #: 189 Name: 480-137527-E-2
 Misc. Info.: Study: 480-0072531-020 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:24 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:21:35

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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2 Chloride					
2.917	2.907	0.010	1059538	39.8	
5 Sulfate					
5.160	5.137	0.023	930746	43.4	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_189.d

Injection Date: 21-Jun-2018 23:05:25

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: 480-137527-E-2

Lab Sample ID: 480-137527-2

Worklist Smp#: 20

Client ID: ML-7-D

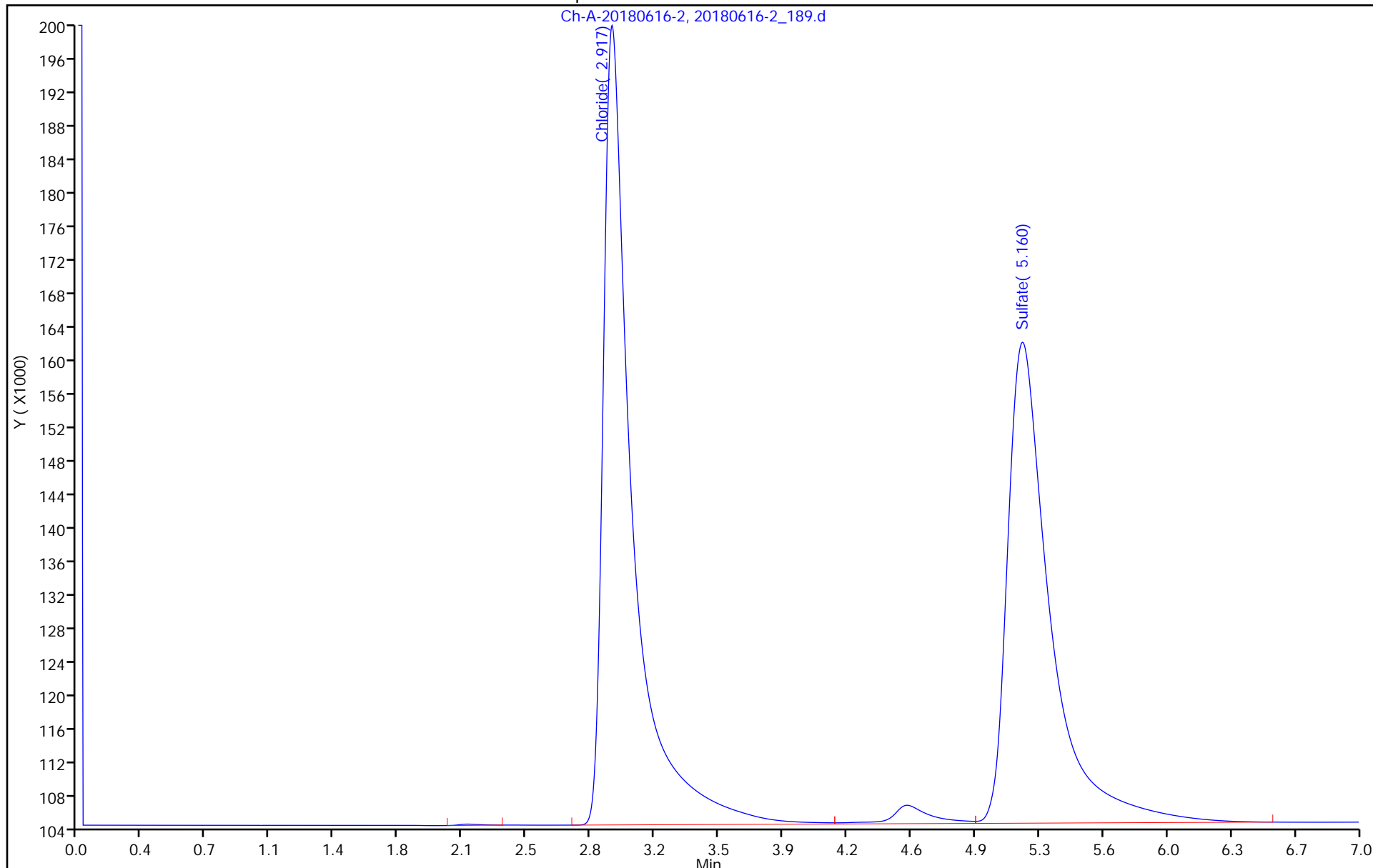
Injection Vol: 1.0 ul

Dil. Factor: 20.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_194.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 23:46:08 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 194 Name: CCV
 Misc. Info.: Study: 480-0072531-025 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:34 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:22:31

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.147	2.147	0.000	213793	5.00	5.27	M
2 Chloride						
2.917	2.917	0.000	1363066	50.0	51.2	
3 Bromide						
4.270	4.270	0.000	35581	5.00	3.45	
4 Nitrate as N						
4.493	4.493	0.000	328817	NC	NC	
5 Sulfate						
5.150	5.150	0.000	1087338	50.0	51.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_194.d

Injection Date: 21-Jun-2018 23:46:08

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 25

Client ID:

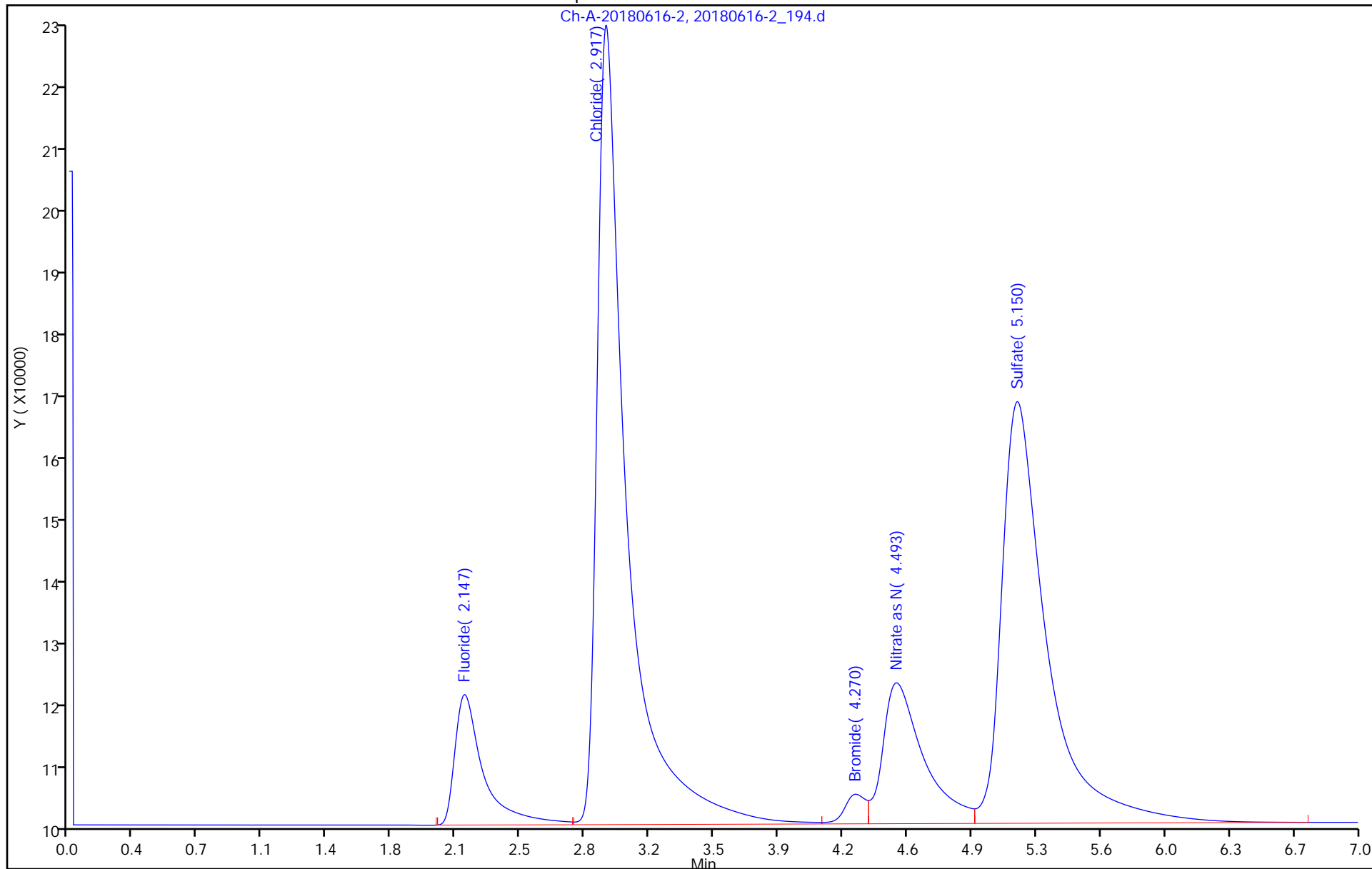
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_195.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 23:54:17 ALS Bottle#: 0 Worklist Smp#: 26
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 195 Name: CCB
 Misc. Info.: Study: 480-0072531-026 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:34 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:22:34

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate	5.323	5.140	0.183	7248	-1.49	
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_195.d

Injection Date: 21-Jun-2018 23:54:17

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCB

Worklist Smp#: 26

Client ID:

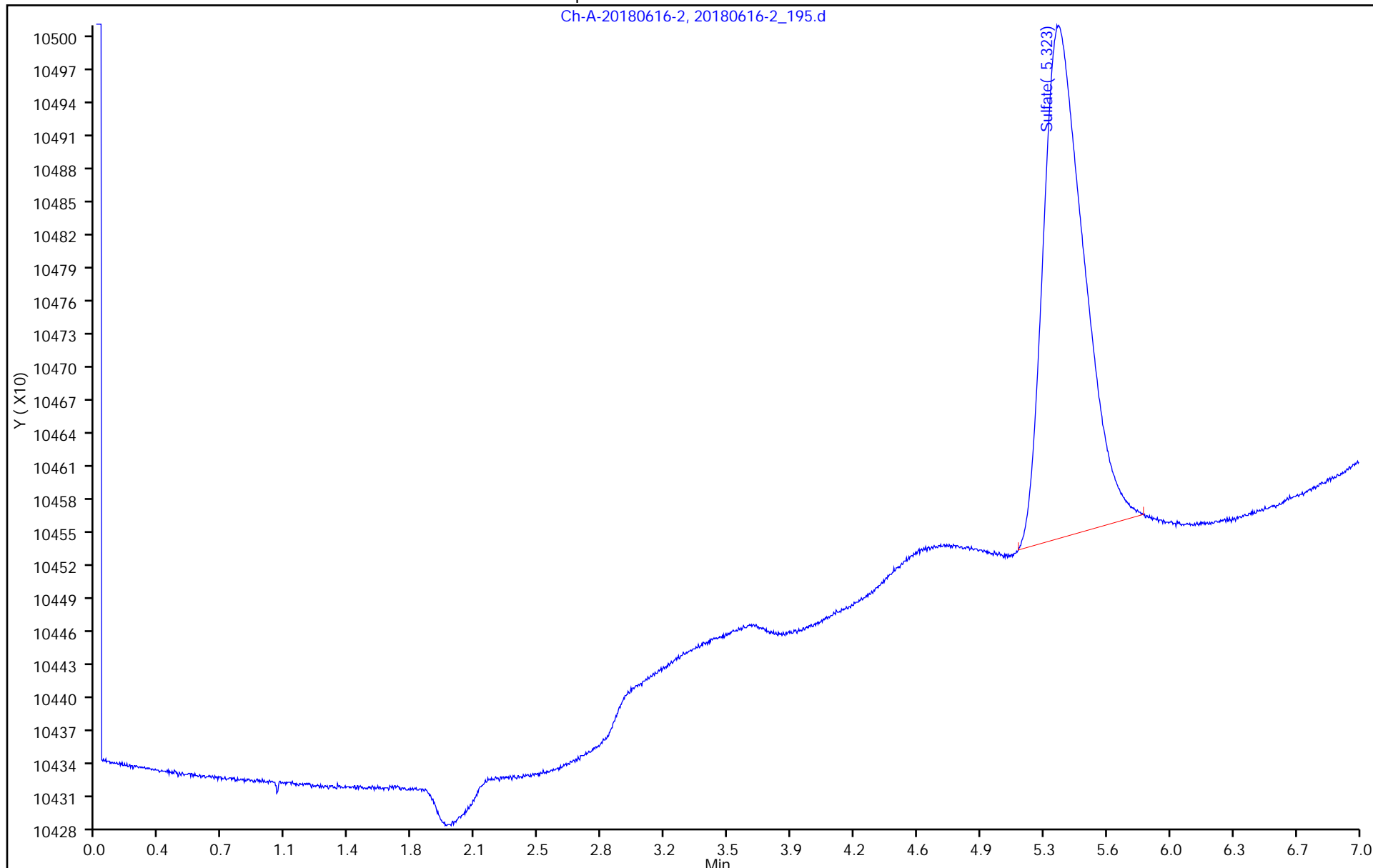
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



CURVE ON NEW SPEC 2

Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

418534

Analyst: <u>MAL</u>	Calibration Curve Information		
Start Date: <u>6-7-18</u>		Conc. (mg/L)	ABS.
Start Time: <u>1245</u>	STD1	0.000	0.000
End Time:	Std. 2	0.100	0.019
	Std. 3	0.500	0.074
DATE OF CURVE= <u>4/6/2018</u>	Std. 4	1.000	0.160
	Std. 5	3.000	0.399

469836
 CURVE SOLUTION:
4562865

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9977
Slope:	0.13206
Intercept:	0.00890

PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	<u>4562865</u> <u>4698495</u>
0.7625 of FAS (3916794) up to 0.5L	<u>6-7-18</u>
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	<u>3188795</u>

4595762

LCS Information:	
Solution #	4565972
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4565972
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
MB	BLANK	25			0.000	1	ND	ND		
LCS	2 PPM	25			0.000	1	ND	ND	#VALUE!	
	0	25	0		0.000	1	ND	ND		
	0.1	25	0.021		0.000	1	ND	ND		
	0.5	25	0.091		0.000	1	ND	ND		
	1.0	25	0.173		0.000	1	ND	ND		
	3.0	25	0.509		0.000	1	ND	ND		
(2 PPM) ICV		25	0.374		2.1954 2.000	1	ND	ND	110%	
ICB		25	0		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

MAL
 6-7-18

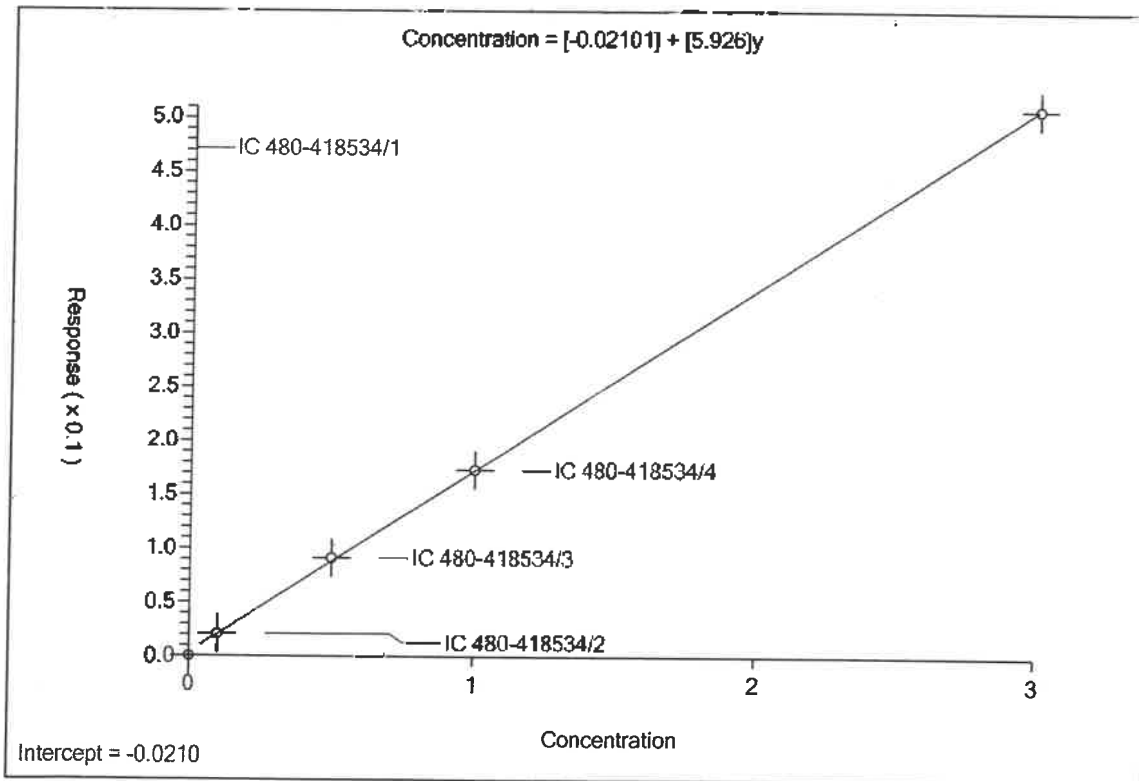
Calibration

Calib 418534-0 / Ferrous Iron

Curve Type: Linear
 Weighting: None
 Origin: None
 Dependency: Concentration
 Calib Mode: ESTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02101
Slope:	5.926
Error Coefficients	
Standard Error:	0.0166
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	RF	IS Response	RF	Used
1	IC 480-418534/1	0.0	0.0		NaN		NaN	Y
2	IC 480-418534/2	0.021	0.021		0.0523		0.21	Y
3	IC 480-418534/3	0.091	0.091		0.0455		0.182	Y
4	IC 480-418534/4	1.0	0.173		0.0493		0.173	Y
5	IC 480-418534/5	3.0	0.509		0.0417		0.169667	Y



Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

420230

Analyst: MDL		Calibration Curve Information	
Start Date: 6-18-18		Conc. (mg/L)	ABS.
Start Time: 1300		STD1	0.000
End Time:		Std. 2	0.100
		Std. 3	0.500
		Std. 4	1.000
DATE OF CURVE= 6/7/2018		Std. 5	3.000
			0.021
			0.091
			0.173
			0.500

CURVE SOLUTION:
 4582863

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9999
Slope:	0.16873
Intercept:	0.00357

PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	
0.7025 of FAS (3916794) up to 0.5L	
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	9488795
	4595762
	MDL 6-18-18

LCS information:	
Solution #	4717546
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4717546
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25	0.306		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		
MB	BLANK	25	0		0.000	1	ND	ND		
LCS	2 PPM	25	0.320		0.000	1	ND	ND	#VALUE!	
137185	E-1	25	0.125	0.099	0.000	1	ND	ND		
↓	E-1 DV	25	0.130	0.103	0.000	1	ND	ND		
137434	B-1	25	0.065	0.048	0.000	1	ND	ND		
↓	D-2	25	0.371	0.353	0.000	1	ND	ND		
137527	B-1	25	0.010	0.011	0.000	1	ND	ND		
↓	C-2	25	0.005	0.003	0.000	1	ND	ND		
↓	C-2ms	25	0.171	0.003	0.000	1	ND	ND		
137605	B-1	25	0.098	0.082	0.000	1	ND	ND		
CCV	2 PPM	25	0.359		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		
137605	B-3	25	0.122	0.120	0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25	0.357		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		

MDL
 6-18-18

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 419956 Batch Start Date: 06/15/18 20:28 Batch Analyst: Bond, Diana C

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Nitrite CCV 00879			
CCV 480-419956/1		353.2		5 mL	5 mL	# mL			
CCB 480-419956/2		353.2		5 mL	5 mL				
MB 480-419956/3		353.2		5 mL	5 mL				
LCS 480-419956/4		353.2		5 mL	5 mL	# mL			
480-137527-D-2	ML-7-D	353.2	T	5 mL	5 mL				
CCV 480-419956/13		353.2		5 mL	5 mL	# mL			
CCB 480-419956/14		353.2		5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 419962 Batch Start Date: 06/15/18 21:27 Batch Analyst: Bond, Diana C

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-137527-D-1	ML-7-I	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 420855 Batch Start Date: 06/21/18 10:44 Batch Analyst: Bauer, Matthew J

Batch Method: SM 4500 S2 F Batch End Date: 06/21/18 11:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount
CCV 480-420855/1		SM 4500 S2 F		0.00 mL	2.50 mL	5 mL	2.5 mL	100 mL	100 mL
CCB 480-420855/2		SM 4500 S2 F		2.50 mL	3.50 mL	1 mL	1 mL	100 mL	100 mL
MB 480-420855/3		SM 4500 S2 F		3.50 mL	4.50 mL	1 mL	1 mL	100 mL	100 mL
LCS 480-420855/4		SM 4500 S2 F		4.50 mL	7.30 mL	5 mL	2.8 mL	100 mL	100 mL
480-137527-A-1	ML-7-I	SM 4500 S2 F	T	7.30 mL	8.30 mL	1 mL	1 mL	100 mL	100 mL
480-137527-A-2	ML-7-D	SM 4500 S2 F	T	8.30 mL	9.30 mL	1 mL	1 mL	100 mL	100 mL
CCV 480-420855/13		SM 4500 S2 F		15.60 mL	18.10 mL	5 mL	2.5 mL	100 mL	100 mL
CCB 480-420855/14		SM 4500 S2 F		18.10 mL	19.10 mL	1 mL	1 mL	100 mL	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00238	Sulfide LCS 00238				
CCV 480-420855/1		SM 4500 S2 F		1 mL					
CCB 480-420855/2		SM 4500 S2 F							
MB 480-420855/3		SM 4500 S2 F							
LCS 480-420855/4		SM 4500 S2 F			1 mL				
480-137527-A-1	ML-7-I	SM 4500 S2 F	T						
480-137527-A-2	ML-7-D	SM 4500 S2 F	T						
CCV 480-420855/13		SM 4500 S2 F		1 mL					
CCB 480-420855/14		SM 4500 S2 F							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 420855 Batch Start Date: 06/21/18 10:44 Batch Analyst: Bauer, Matthew J

Batch Method: SM 4500 S2 F Batch End Date: 06/21/18 11:55

Batch Notes	
Buret ID	1
Hydrochloric Acid ID	4716898
Iodine ID	4449717
Normality of Iodine Solution	0.025 N
Sodium Thiosulfate ID	4487459
Nominal Amount Used	100 mL
Starch Reagent ID	4454657
Normality of First Titrant	0.025 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 418515 Batch Start Date: 06/08/18 12:15 Batch Analyst: Abramo, Charles L

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STD 00036				
IC 480-418515/5		9056A		5 mL	2.5 uL				
IC 480-418515/6		9056A		5 mL	10 uL				
IC 480-418515/7		9056A		5 mL	25 uL				
IC 480-418515/8		9056A		5 mL	100 uL				
IC 480-418515/9		9056A		5 mL	250 uL				
IC 480-418515/10		9056A		5 mL	500 uL				

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	11703055

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 420962 Batch Start Date: 06/21/18 20:30 Batch Analyst: Richards, Devon M

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_ANION_LCS_ 00207			
CCV 480-420962/1		9056A		5 mL		5000 uL			
CCB 480-420962/2		9056A		5 mL					
LCS 480-420962/3		9056A		5 mL	1.0 mL	5000 uL			
MB 480-420962/4		9056A		5 mL					
CCV 480-420962/13		9056A		5 mL		5000 uL			
CCB 480-420962/14		9056A		5 mL					
480-137527-E-1	ML-7-I	9056A	T	5 mL					
480-137527-E-2	ML-7-D	9056A	T	5 mL					
CCV 480-420962/25		9056A		5 mL		5000 uL			
CCB 480-420962/26		9056A		5 mL					

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	11703055

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 418534 Batch Start Date: 06/07/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm ICV 00020	
IC 480-418534/1		SM 3500 FE D		100 mL	100 mL	0 Absorbance	OK w/o Correction		
IC 480-418534/2		SM 3500 FE D		100 mL	100 mL	0.021 Absorbance	OK w/o Correction	0.05 mL	
IC 480-418534/3		SM 3500 FE D		100 mL	100 mL	0.091 Absorbance	OK w/o Correction	0.25 mL	
IC 480-418534/4		SM 3500 FE D		100 mL	100 mL	0.173 Absorbance	OK w/o Correction	0.5 mL	
IC 480-418534/5		SM 3500 FE D		100 mL	100 mL	0.509 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Batch Number: 420230 Batch Start Date: 06/18/18 13:00 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00022
CCV 480-420230/1		SM 3500 FE D		25 mL	25 mL		0.306 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-420230/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-420230/4		SM 3500 FE D		25 mL	25 mL		0.320 Absorbance	OK w/o Correction	0.25 mL
480-137527-B-1	ML-7-I	SM 3500 FE D	T	25 mL	25 mL	0.011 Absorbance	0.010 Absorbance	OK	
480-137527-C-2	ML-7-D	SM 3500 FE D	T	25 mL	25 mL	0.003 Absorbance	0.005 Absorbance	OK	
480-137527-C-2 MS	ML-7-D	SM 3500 FE D	T	25 mL	25 mL	0.003 Absorbance	0.171 Absorbance	OK	0.125 mL
CCV 480-420230/13		SM 3500 FE D		25 mL	25 mL		0.359 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/14		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record



480-137527 COC

Client Information		Sampler: Jensen Porter		Lab PM: Deyo, Melissa L		COC No: 480-114142-25355.2	
Client Contact: Allan Engelbert		Phone: 585-471-7307		E-Mail: melissa.deyo@testamericainc.com		Page: Page 2 of 3	
Company: LaBella Associates DPC		Address: 300 State Street Suite 201		City: Rochester		State, Zip: NY, 14614	
Phone: 210173		PO #: 210173		WO #: 48016058		Project #: 48016058	
Email: aengelbert@labellapc.com		Project Name: Former Emerson Street Landfill Project		Site: FESL		SSOW#:	
Due Date Requested:		TAT Requested (days):		Field Filtered Sample (Yes or No):		Field Filtered Sample (Yes or No):	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (Water, Soil, Inorganic, Organic, etc.)		Preservation Code		Analysis Requested		Special Instructions/Note:	
ML-7-I	01/14/18	1005	G	9056A_28D - Chloride & Sulfate	X	X	11
ML-7-D/MS/MSD	01/14/18	1405	G	352.2, 353.2, Nitrite, Nitrate, Calc	X	X	20
DVPE	01/14/18	1700	G	RSK_175 - Ethane & Ethene	X	X	3
ML-2-S	01/14/18	1700	G	SM4500_S2.F - Sulfide	X	X	1
				3500_FE_D - Ferrrous Iron	X	X	
				8260C - TCL VOCs + TICs	X	X	
				Perform MS/MSD (Yes or No)	X	X	
				Total Number of Containers			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify): **ENVIS EQUIS EDD, ASPB REPORT***

Empty Kit Reinquished by: *Jensen Porter* Date: 01/18/18 19:30

Reinquished by: *Jensen Porter* Date/Time: 01/18/18 19:30 Company: *LaBella*

Reinquished by: *Jensen Porter* Date/Time: 01/18/18 19:30 Company: *LaBella*

Reinquished by: *Jensen Porter* Date/Time: 01/18/18 19:30 Company: *LaBella*

Custody Seals Intact: Yes No Δ

Custody Seal No.: #13.3

Received by: *Frax* Date/Time: 01/18/18 10:30 Company: *Frax*

Received by: *LaBella* Date/Time: 01/15/18 10:45 Company: *LaBella*

Received by: *LaBella* Date/Time: 01/15/18 10:45 Company: *LaBella*

Method of Shipment: *Hand*

Special Instructions/QC Requirements: **Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**
 Return To Client Disposal By Lab Archive For _____ Months

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-137527-1

Login Number: 137527
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

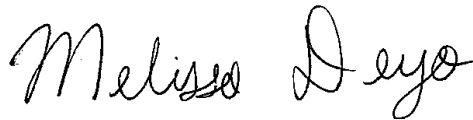
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-137605-1

Job Description: Former Emerson Street Landfill Project

For:
LaBella Associates DPC
300 State Street
Suite 201
Rochester, NY 14614
Attention: Ann Aquilina



Approved for release.
Melissa L Deyo
Project Manager I
6/25/2018 4:42 PM

Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
06/25/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

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**Job Narrative
480-137605-1**

Receipt

The samples were received on 6/16/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: ML-2-D (480-137605-1), ML-2-D (480-137605-1[MS]) and ML-2-D (480-137605-1[MSD]). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: ML-2-D (480-137605-1), ML-2-D (480-137605-1[MS]) and ML-2-D (480-137605-1[MSD]).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-421204 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: DUPE (480-137605-2) and ML-2-I (480-137605-3).

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: DUPE (480-137605-2) and ML-2-I (480-137605-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-2-D (480-137605-1) and ML-2-I (480-137605-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: ML-2-D (480-137605-1) and ML-2-I (480-137605-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: ML-2-D (480-137605-1) and ML-2-I (480-137605-3).

Method(s) 353.2: The following samples were analyzed outside of analytical holding time due to laboratory error: ML-2-D (480-137605-1) and ML-2-I (480-137605-3).

Method(s) 353.2: The following samples were analyzed outside of analytical holding time due to laboratory error: ML-2-D (480-137605-1) and ML-2-I (480-137605-3).

Method(s) Nitrate by calc: The following samples were analyzed outside of analytical holding time due to laboratory error: ML-2-D (480-137605-1) and ML-2-I (480-137605-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137605-1	ML-2-D	Water	06/15/18 12:45	06/16/18 09:00
480-137605-2	DUPE	Water	06/15/18 00:00	06/16/18 09:00
480-137605-3	ML-2-I	Water	06/15/18 11:44	06/16/18 09:00
480-137605-4	TB	Water	06/15/18 00:00	06/16/18 09:00

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: ML-2-D

Lab Sample ID: 480-137605-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.1		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	49		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	19	J	50	6.6	ug/L	5		8260C	Total/NA
Benzene	21		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	10		5.0	1.6	ug/L	5		8260C	Total/NA
Ethylbenzene	11		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	24		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	33		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.1	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	9.5		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	94		10	3.3	ug/L	5		8260C	Total/NA
Ethane	160		83	17	ug/L		11	RSK-175	Total/NA
Ethene	140		77	17	ug/L		11	RSK-175	Total/NA
Chloride	411		5.0	2.8	mg/L	10		9056A	Total/NA

Client Sample ID: DUPE

Lab Sample ID: 480-137605-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.6		5.0	4.1	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	50		5.0	1.9	ug/L	5		8260C	Total/NA
Benzene	20		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	10		5.0	1.6	ug/L	5		8260C	Total/NA
Ethylbenzene	11		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	23		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	31		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.3	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	9.5		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	86		10	3.3	ug/L	5		8260C	Total/NA

Client Sample ID: ML-2-I

Lab Sample ID: 480-137605-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	63		5.0	1.9	ug/L	5		8260C	Total/NA
2-Butanone (MEK)	57		50	6.6	ug/L	5		8260C	Total/NA
Benzene	25		5.0	2.1	ug/L	5		8260C	Total/NA
Chloroethane	5.4		5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	14		5.0	4.1	ug/L	5		8260C	Total/NA
Ethylbenzene	13		5.0	3.7	ug/L	5		8260C	Total/NA
Isopropylbenzene	25		5.0	4.0	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	47		5.0	0.80	ug/L	5		8260C	Total/NA
Methylcyclohexane	1.4	J	5.0	0.80	ug/L	5		8260C	Total/NA
Toluene	23		5.0	2.6	ug/L	5		8260C	Total/NA
Xylenes, Total	110		10	3.3	ug/L	5		8260C	Total/NA
Ethane	180		170	33	ug/L		22	RSK-175	Total/NA
Ethene	340		150	33	ug/L		22	RSK-175	Total/NA
Nitrate	0.023	J H	0.050	0.020	mg/L as N	1		353.2	Total/NA
Chloride	402		5.0	2.8	mg/L	10		9056A	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-137605-4

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: TB (Continued)

Lab Sample ID: 480-137605-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	26		10	3.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
353.2	Nitrate	EPA	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
9056A	Anions, Ion Chromatography	SW846	TAL BUF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: ML-2-D

Lab Sample ID: 480-137605-1

Date Collected: 06/15/18 12:45

Matrix: Water

Date Received: 06/16/18 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	6.1		5.0	4.1	ug/L			06/23/18 04:32	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/23/18 04:32	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/23/18 04:32	5
1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6	ug/L			06/23/18 04:32	5
1,1-Dichloroethane	49		5.0	1.9	ug/L			06/23/18 04:32	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/23/18 04:32	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/23/18 04:32	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/23/18 04:32	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/23/18 04:32	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/23/18 04:32	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/23/18 04:32	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/23/18 04:32	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/23/18 04:32	5
2-Butanone (MEK)	19	J	50	6.6	ug/L			06/23/18 04:32	5
2-Hexanone	ND		25	6.2	ug/L			06/23/18 04:32	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/23/18 04:32	5
Acetone	ND		50	15	ug/L			06/23/18 04:32	5
Benzene	21		5.0	2.1	ug/L			06/23/18 04:32	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/23/18 04:32	5
Bromoform	ND		5.0	1.3	ug/L			06/23/18 04:32	5
Bromomethane	ND		5.0	3.5	ug/L			06/23/18 04:32	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/23/18 04:32	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/23/18 04:32	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/23/18 04:32	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/23/18 04:32	5
Chloroethane	10		5.0	1.6	ug/L			06/23/18 04:32	5
Chloroform	ND		5.0	1.7	ug/L			06/23/18 04:32	5
Chloromethane	ND		5.0	1.8	ug/L			06/23/18 04:32	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			06/23/18 04:32	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/23/18 04:32	5
Cyclohexane	ND		5.0	0.90	ug/L			06/23/18 04:32	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/23/18 04:32	5
Ethylbenzene	11		5.0	3.7	ug/L			06/23/18 04:32	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/23/18 04:32	5
Isopropylbenzene	24		5.0	4.0	ug/L			06/23/18 04:32	5
Methyl acetate	ND		13	6.5	ug/L			06/23/18 04:32	5
Methyl tert-butyl ether	33		5.0	0.80	ug/L			06/23/18 04:32	5
Methylcyclohexane	1.1	J	5.0	0.80	ug/L			06/23/18 04:32	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/23/18 04:32	5
Styrene	ND		5.0	3.7	ug/L			06/23/18 04:32	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/23/18 04:32	5
Toluene	9.5		5.0	2.6	ug/L			06/23/18 04:32	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/23/18 04:32	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/23/18 04:32	5
Trichloroethene	ND		5.0	2.3	ug/L			06/23/18 04:32	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/23/18 04:32	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/23/18 04:32	5
Xylenes, Total	94		10	3.3	ug/L			06/23/18 04:32	5

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: ML-2-D

Lab Sample ID: 480-137605-1

Date Collected: 06/15/18 12:45

Matrix: Water

Date Received: 06/16/18 09:00

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Unknown	17	T J	ug/L		1.52			06/23/18 04:32	5
Benzene, 1,2,4-trimethyl-	43	T J N	ug/L		10.53	95-63-6		06/23/18 04:32	5
Benzene, 1,3,5-trimethyl-	29	T J N	ug/L		10.94	108-67-8		06/23/18 04:32	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Toluene-d8 (Surr)	99		80 - 120					06/23/18 04:32	5
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					06/23/18 04:32	5
4-Bromofluorobenzene (Surr)	99		73 - 120					06/23/18 04:32	5
Dibromofluoromethane (Surr)	99		75 - 123					06/23/18 04:32	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	160		83	17	ug/L			06/19/18 14:49	11
Ethene	140		77	17	ug/L			06/19/18 14:49	11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	ND	H	0.050	0.020	mg/L as N			06/19/18 17:10	1
Nitrite	ND	H	0.050	0.020	mg/L as N			06/19/18 17:10	1
Chloride	411		5.0	2.8	mg/L			06/21/18 21:11	10
Sulfate	ND		20.0	3.5	mg/L			06/21/18 21:11	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/18 13:00	1
Sulfide	ND		1.0	0.67	mg/L			06/21/18 10:44	1

Client Sample ID: DUPE

Lab Sample ID: 480-137605-2

Date Collected: 06/15/18 00:00

Matrix: Water

Date Received: 06/16/18 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.6		5.0	4.1	ug/L			06/23/18 18:03	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/23/18 18:03	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/23/18 18:03	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/23/18 18:03	5
1,1-Dichloroethane	50		5.0	1.9	ug/L			06/23/18 18:03	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/23/18 18:03	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/23/18 18:03	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/23/18 18:03	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/23/18 18:03	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/23/18 18:03	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/23/18 18:03	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/23/18 18:03	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/23/18 18:03	5
2-Butanone (MEK)	ND		50	6.6	ug/L			06/23/18 18:03	5
2-Hexanone	ND		25	6.2	ug/L			06/23/18 18:03	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/23/18 18:03	5
Acetone	ND		50	15	ug/L			06/23/18 18:03	5
Benzene	20		5.0	2.1	ug/L			06/23/18 18:03	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/23/18 18:03	5
Bromoform	ND		5.0	1.3	ug/L			06/23/18 18:03	5
Bromomethane	ND		5.0	3.5	ug/L			06/23/18 18:03	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: DUPE
Date Collected: 06/15/18 00:00
Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.95	ug/L			06/23/18 18:03	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/23/18 18:03	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/23/18 18:03	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/23/18 18:03	5
Chloroethane	10		5.0	1.6	ug/L			06/23/18 18:03	5
Chloroform	ND		5.0	1.7	ug/L			06/23/18 18:03	5
Chloromethane	ND		5.0	1.8	ug/L			06/23/18 18:03	5
cis-1,2-Dichloroethene	ND		5.0	4.1	ug/L			06/23/18 18:03	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/23/18 18:03	5
Cyclohexane	ND		5.0	0.90	ug/L			06/23/18 18:03	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/23/18 18:03	5
Ethylbenzene	11		5.0	3.7	ug/L			06/23/18 18:03	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/23/18 18:03	5
Isopropylbenzene	23		5.0	4.0	ug/L			06/23/18 18:03	5
Methyl acetate	ND		13	6.5	ug/L			06/23/18 18:03	5
Methyl tert-butyl ether	31		5.0	0.80	ug/L			06/23/18 18:03	5
Methylcyclohexane	1.3 J		5.0	0.80	ug/L			06/23/18 18:03	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/23/18 18:03	5
Styrene	ND		5.0	3.7	ug/L			06/23/18 18:03	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/23/18 18:03	5
Toluene	9.5		5.0	2.6	ug/L			06/23/18 18:03	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/23/18 18:03	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/23/18 18:03	5
Trichloroethene	ND		5.0	2.3	ug/L			06/23/18 18:03	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/23/18 18:03	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/23/18 18:03	5
Xylenes, Total	86		10	3.3	ug/L			06/23/18 18:03	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 1,3,5-trimethyl-	39	T J N	ug/L		10.53	108-67-8		06/23/18 18:03	5
Benzene, 1,2,3-trimethyl-	27	T J N	ug/L		10.94	526-73-8		06/23/18 18:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		06/23/18 18:03	5
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		06/23/18 18:03	5
4-Bromofluorobenzene (Surr)	102		73 - 120		06/23/18 18:03	5
Dibromofluoromethane (Surr)	105		75 - 123		06/23/18 18:03	5

Client Sample ID: ML-2-I
Date Collected: 06/15/18 11:44
Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			06/23/18 18:26	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			06/23/18 18:26	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			06/23/18 18:26	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			06/23/18 18:26	5
1,1-Dichloroethane	63		5.0	1.9	ug/L			06/23/18 18:26	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			06/23/18 18:26	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: ML-2-I

Lab Sample ID: 480-137605-3

Date Collected: 06/15/18 11:44

Matrix: Water

Date Received: 06/16/18 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			06/23/18 18:26	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			06/23/18 18:26	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			06/23/18 18:26	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			06/23/18 18:26	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			06/23/18 18:26	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			06/23/18 18:26	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			06/23/18 18:26	5
2-Butanone (MEK)	57		50	6.6	ug/L			06/23/18 18:26	5
2-Hexanone	ND		25	6.2	ug/L			06/23/18 18:26	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			06/23/18 18:26	5
Acetone	ND		50	15	ug/L			06/23/18 18:26	5
Benzene	25		5.0	2.1	ug/L			06/23/18 18:26	5
Bromodichloromethane	ND		5.0	2.0	ug/L			06/23/18 18:26	5
Bromoform	ND		5.0	1.3	ug/L			06/23/18 18:26	5
Bromomethane	ND		5.0	3.5	ug/L			06/23/18 18:26	5
Carbon disulfide	ND		5.0	0.95	ug/L			06/23/18 18:26	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			06/23/18 18:26	5
Chlorobenzene	ND		5.0	3.8	ug/L			06/23/18 18:26	5
Dibromochloromethane	ND		5.0	1.6	ug/L			06/23/18 18:26	5
Chloroethane	5.4		5.0	1.6	ug/L			06/23/18 18:26	5
Chloroform	ND		5.0	1.7	ug/L			06/23/18 18:26	5
Chloromethane	ND		5.0	1.8	ug/L			06/23/18 18:26	5
cis-1,2-Dichloroethene	14		5.0	4.1	ug/L			06/23/18 18:26	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			06/23/18 18:26	5
Cyclohexane	ND		5.0	0.90	ug/L			06/23/18 18:26	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			06/23/18 18:26	5
Ethylbenzene	13		5.0	3.7	ug/L			06/23/18 18:26	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			06/23/18 18:26	5
Isopropylbenzene	25		5.0	4.0	ug/L			06/23/18 18:26	5
Methyl acetate	ND		13	6.5	ug/L			06/23/18 18:26	5
Methyl tert-butyl ether	47		5.0	0.80	ug/L			06/23/18 18:26	5
Methylcyclohexane	1.4 J		5.0	0.80	ug/L			06/23/18 18:26	5
Methylene Chloride	ND		5.0	2.2	ug/L			06/23/18 18:26	5
Styrene	ND		5.0	3.7	ug/L			06/23/18 18:26	5
Tetrachloroethene	ND		5.0	1.8	ug/L			06/23/18 18:26	5
Toluene	23		5.0	2.6	ug/L			06/23/18 18:26	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			06/23/18 18:26	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			06/23/18 18:26	5
Trichloroethene	ND		5.0	2.3	ug/L			06/23/18 18:26	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			06/23/18 18:26	5
Vinyl chloride	ND		5.0	4.5	ug/L			06/23/18 18:26	5
Xylenes, Total	110		10	3.3	ug/L			06/23/18 18:26	5

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethyl ether	13	T J N	ug/L		2.50	60-29-7		06/23/18 18:26	5
Benzene, 1,2,3-trimethyl-	41	T J N	ug/L		10.53	526-73-8		06/23/18 18:26	5
Benzene, 1-ethyl-3-methyl-	26	T J N	ug/L		10.94	620-14-4		06/23/18 18:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		06/23/18 18:26	5

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: ML-2-I
Date Collected: 06/15/18 11:44
Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		06/23/18 18:26	5
4-Bromofluorobenzene (Surr)	96		73 - 120		06/23/18 18:26	5
Dibromofluoromethane (Surr)	103		75 - 123		06/23/18 18:26	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	180		170	33	ug/L			06/19/18 13:04	22
Ethene	340		150	33	ug/L			06/19/18 13:04	22

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate	0.023	J H	0.050	0.020	mg/L as N			06/19/18 17:11	1
Nitrite	ND	H	0.050	0.020	mg/L as N			06/19/18 17:11	1
Chloride	402		5.0	2.8	mg/L			06/21/18 21:19	10
Sulfate	ND		20.0	3.5	mg/L			06/21/18 21:19	10
Ferrous Iron	ND	HF	0.10	0.075	mg/L			06/18/18 13:00	1
Sulfide	ND		1.0	0.67	mg/L			06/21/18 10:44	1

Client Sample ID: TB
Date Collected: 06/15/18 00:00
Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/23/18 05:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/23/18 05:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/23/18 05:42	1
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/23/18 05:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/23/18 05:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/23/18 05:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/23/18 05:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/23/18 05:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/23/18 05:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/23/18 05:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/23/18 05:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/23/18 05:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/23/18 05:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/23/18 05:42	1
2-Hexanone	ND		5.0	1.2	ug/L			06/23/18 05:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/23/18 05:42	1
Acetone	26		10	3.0	ug/L			06/23/18 05:42	1
Benzene	ND		1.0	0.41	ug/L			06/23/18 05:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/23/18 05:42	1
Bromoform	ND		1.0	0.26	ug/L			06/23/18 05:42	1
Bromomethane	ND		1.0	0.69	ug/L			06/23/18 05:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/23/18 05:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/23/18 05:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/23/18 05:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/23/18 05:42	1
Chloroethane	ND		1.0	0.32	ug/L			06/23/18 05:42	1

TestAmerica Buffalo

Client Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: TB

Lab Sample ID: 480-137605-4

Date Collected: 06/15/18 00:00

Matrix: Water

Date Received: 06/16/18 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			06/23/18 05:42	1
Chloromethane	ND		1.0	0.35	ug/L			06/23/18 05:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/23/18 05:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/23/18 05:42	1
Cyclohexane	ND		1.0	0.18	ug/L			06/23/18 05:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/23/18 05:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/23/18 05:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/23/18 05:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/23/18 05:42	1
Methyl acetate	ND		2.5	1.3	ug/L			06/23/18 05:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/23/18 05:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/23/18 05:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/23/18 05:42	1
Styrene	ND		1.0	0.73	ug/L			06/23/18 05:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/23/18 05:42	1
Toluene	ND		1.0	0.51	ug/L			06/23/18 05:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/23/18 05:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/23/18 05:42	1
Trichloroethene	ND		1.0	0.46	ug/L			06/23/18 05:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/23/18 05:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/23/18 05:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/23/18 05:42	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Isopropyl Alcohol	10	T J N	ug/L		3.04	67-63-0		06/23/18 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		06/23/18 05:42	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		06/23/18 05:42	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/23/18 05:42	1
Dibromofluoromethane (Surr)	103		75 - 123		06/23/18 05:42	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-137605-1	ML-2-D	99	101	99	99
480-137605-1 MS	ML-2-D	99	102	99	102
480-137605-1 MSD	ML-2-D	99	103	99	100
480-137605-2	DUPE	102	104	102	105
480-137605-3	ML-2-I	97	104	96	103
480-137605-4	TB	98	103	103	103
LCS 480-421186/4	Lab Control Sample	99	101	100	104
LCS 480-421204/5	Lab Control Sample	101	98	100	101
MB 480-421186/6	Method Blank	100	101	98	96
MB 480-421204/7	Method Blank	104	105	101	106

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-421186/6

Matrix: Water

Analysis Batch: 421186

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/18 21:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/18 21:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/18 21:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/18 21:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/18 21:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/18 21:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/18 21:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/18 21:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/18 21:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/18 21:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/18 21:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/18 21:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/18 21:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/18 21:52	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/18 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/18 21:52	1
Acetone	ND		10	3.0	ug/L			06/22/18 21:52	1
Benzene	ND		1.0	0.41	ug/L			06/22/18 21:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/18 21:52	1
Bromoform	ND		1.0	0.26	ug/L			06/22/18 21:52	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/18 21:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/18 21:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/18 21:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/18 21:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/18 21:52	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/18 21:52	1
Chloroform	ND		1.0	0.34	ug/L			06/22/18 21:52	1
Chloromethane	ND		1.0	0.35	ug/L			06/22/18 21:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/18 21:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/22/18 21:52	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/18 21:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/18 21:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/18 21:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/18 21:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/18 21:52	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/18 21:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/18 21:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/18 21:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/18 21:52	1
Styrene	ND		1.0	0.73	ug/L			06/22/18 21:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/18 21:52	1
Toluene	ND		1.0	0.51	ug/L			06/22/18 21:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/22/18 21:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/22/18 21:52	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/18 21:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/18 21:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/22/18 21:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/22/18 21:52	1

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>MB MB Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>		<i>None</i>	<i>ug/L</i>					<i>06/22/18 21:52</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>100</i>		<i>80 - 120</i>		<i>06/22/18 21:52</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>101</i>		<i>77 - 120</i>		<i>06/22/18 21:52</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>98</i>		<i>73 - 120</i>		<i>06/22/18 21:52</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>96</i>		<i>75 - 123</i>		<i>06/22/18 21:52</i>	<i>1</i>

Lab Sample ID: LCS 480-421186/4
Matrix: Water
Analysis Batch: 421186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	28.8		ug/L		115	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		99	76 - 120
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	61 - 148
1,1-Dichloroethane	25.0	27.1		ug/L		108	77 - 120
1,1-Dichloroethene	25.0	30.2		ug/L		121	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	56 - 134
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	26.4		ug/L		105	75 - 120
1,2-Dichloropropane	25.0	25.9		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	77 - 120
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	80 - 120
2-Butanone (MEK)	125	117		ug/L		93	57 - 140
2-Hexanone	125	111		ug/L		89	65 - 127
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	71 - 125
Acetone	125	107		ug/L		85	56 - 142
Benzene	25.0	27.2		ug/L		109	71 - 124
Bromodichloromethane	25.0	28.7		ug/L		115	80 - 122
Bromoform	25.0	28.3		ug/L		113	61 - 132
Bromomethane	25.0	23.1		ug/L		92	55 - 144
Carbon disulfide	25.0	28.3		ug/L		113	59 - 134
Carbon tetrachloride	25.0	31.0		ug/L		124	72 - 134
Chlorobenzene	25.0	26.3		ug/L		105	80 - 120
Dibromochloromethane	25.0	28.3		ug/L		113	75 - 125
Chloroethane	25.0	24.2		ug/L		97	69 - 136
Chloroform	25.0	25.9		ug/L		104	73 - 127
Chloromethane	25.0	22.1		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	74 - 124
cis-1,3-Dichloropropene	25.0	27.4		ug/L		110	74 - 124
Cyclohexane	25.0	30.2		ug/L		121	59 - 135
Dichlorodifluoromethane	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	25.0	27.1		ug/L		108	77 - 123
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
Isopropylbenzene	25.0	27.2		ug/L		109	77 - 122
Methyl acetate	50.0	44.5		ug/L		89	74 - 133
Methyl tert-butyl ether	25.0	26.0		ug/L		104	77 - 120
Methylcyclohexane	25.0	31.1		ug/L		124	68 - 134
Methylene Chloride	25.0	24.3		ug/L		97	75 - 124

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-421186/4

Matrix: Water

Analysis Batch: 421186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	26.5		ug/L		106	80 - 120
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122
Toluene	25.0	26.6		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	28.1		ug/L		112	73 - 127
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	80 - 120
Trichloroethene	25.0	27.7		ug/L		111	74 - 123
Trichlorofluoromethane	25.0	26.6		ug/L		106	62 - 150
Vinyl chloride	25.0	23.9		ug/L		96	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: 480-137605-1 MS

Matrix: Water

Analysis Batch: 421186

Client Sample ID: ML-2-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	6.1		125	149		ug/L		115	73 - 126
1,1,2,2-Tetrachloroethane	ND		125	128		ug/L		102	76 - 120
1,1,2-Trichloroethane	ND		125	128		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	125	145		ug/L		114	61 - 148
1,1-Dichloroethane	49		125	185		ug/L		109	77 - 120
1,1-Dichloroethene	ND		125	157		ug/L		126	66 - 127
1,2,4-Trichlorobenzene	ND		125	138		ug/L		111	79 - 122
1,2-Dibromo-3-Chloropropane	ND		125	132		ug/L		106	56 - 134
1,2-Dichlorobenzene	ND		125	130		ug/L		104	80 - 124
1,2-Dichloroethane	ND		125	132		ug/L		106	75 - 120
1,2-Dichloropropane	ND		125	133		ug/L		106	76 - 120
1,3-Dichlorobenzene	ND		125	133		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		125	132		ug/L		106	78 - 124
2-Butanone (MEK)	19	J	625	662		ug/L		103	57 - 140
2-Hexanone	ND		625	581		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		625	594		ug/L		95	71 - 125
Acetone	ND		625	626		ug/L		100	56 - 142
Benzene	21		125	159		ug/L		110	71 - 124
Bromodichloromethane	ND		125	143		ug/L		114	80 - 122
Bromoform	ND		125	147		ug/L		117	61 - 132
Bromomethane	ND		125	124		ug/L		100	55 - 144
Carbon disulfide	ND		125	144		ug/L		115	59 - 134
Carbon tetrachloride	ND		125	158		ug/L		127	72 - 134
Chlorobenzene	ND		125	138		ug/L		110	80 - 120
Dibromochloromethane	ND		125	143		ug/L		114	75 - 125
Chloroethane	10		125	144		ug/L		107	69 - 136
Chloroform	ND		125	132		ug/L		105	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-137605-1 MS

Matrix: Water

Analysis Batch: 421186

Client Sample ID: ML-2-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloromethane	ND		125	122		ug/L		98	68 - 124	
cis-1,2-Dichloroethene	ND		125	144		ug/L		115	74 - 124	
cis-1,3-Dichloropropene	ND		125	133		ug/L		107	74 - 124	
Cyclohexane	ND		125	162		ug/L		129	59 - 135	
Dichlorodifluoromethane	ND		125	137		ug/L		110	59 - 135	
Ethylbenzene	11		125	150		ug/L		111	77 - 123	
1,2-Dibromoethane	ND		125	132		ug/L		106	77 - 120	
Isopropylbenzene	24		125	165		ug/L		112	77 - 122	
Methyl acetate	ND		250	241		ug/L		96	74 - 133	
Methyl tert-butyl ether	33		125	163		ug/L		103	77 - 120	
Methylcyclohexane	1.1	J	125	158		ug/L		125	68 - 134	
Methylene Chloride	ND		125	117		ug/L		94	75 - 124	
Styrene	ND		125	136		ug/L		109	80 - 120	
Tetrachloroethene	ND		125	138		ug/L		110	74 - 122	
Toluene	9.5		125	143		ug/L		107	80 - 122	
trans-1,2-Dichloroethene	ND		125	142		ug/L		113	73 - 127	
trans-1,3-Dichloropropene	ND		125	132		ug/L		105	80 - 120	
Trichloroethene	ND		125	142		ug/L		114	74 - 123	
Trichlorofluoromethane	ND		125	148		ug/L		118	62 - 150	
Vinyl chloride	ND		125	138		ug/L		110	65 - 133	
MS MS										
Surrogate	%Recovery		Qualifier	Limits						
Toluene-d8 (Surr)	99			80 - 120						
1,2-Dichloroethane-d4 (Surr)	102			77 - 120						
4-Bromofluorobenzene (Surr)	99			73 - 120						
Dibromofluoromethane (Surr)	102			75 - 123						

Lab Sample ID: 480-137605-1 MSD

Matrix: Water

Analysis Batch: 421186

Client Sample ID: ML-2-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1,1-Trichloroethane	6.1		125	142		ug/L		109	73 - 126		5	15
1,1,2,2-Tetrachloroethane	ND		125	129		ug/L		103	76 - 120		1	15
1,1,2-Trichloroethane	ND		125	126		ug/L		101	76 - 122		2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	125	127		ug/L		99	61 - 148		14	20
1,1-Dichloroethane	49		125	173		ug/L		100	77 - 120		7	20
1,1-Dichloroethene	ND		125	137		ug/L		109	66 - 127		14	16
1,2,4-Trichlorobenzene	ND		125	133		ug/L		107	79 - 122		4	20
1,2-Dibromo-3-Chloropropane	ND		125	132		ug/L		106	56 - 134		0	15
1,2-Dichlorobenzene	ND		125	131		ug/L		105	80 - 124		0	20
1,2-Dichloroethane	ND		125	123		ug/L		99	75 - 120		7	20
1,2-Dichloropropane	ND		125	123		ug/L		99	76 - 120		8	20
1,3-Dichlorobenzene	ND		125	131		ug/L		105	77 - 120		2	20
1,4-Dichlorobenzene	ND		125	130		ug/L		104	78 - 124		2	20
2-Butanone (MEK)	19	J	625	636		ug/L		99	57 - 140		4	20
2-Hexanone	ND		625	566		ug/L		91	65 - 127		3	15

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-137605-1 MSD

Matrix: Water

Analysis Batch: 421186

Client Sample ID: ML-2-D

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		625	588		ug/L		94	71 - 125	1	35
Acetone	ND		625	613		ug/L		98	56 - 142	2	15
Benzene	21		125	148		ug/L		101	71 - 124	7	13
Bromodichloromethane	ND		125	139		ug/L		111	80 - 122	3	15
Bromoform	ND		125	144		ug/L		115	61 - 132	2	15
Bromomethane	ND		125	114		ug/L		91	55 - 144	9	15
Carbon disulfide	ND		125	130		ug/L		104	59 - 134	10	15
Carbon tetrachloride	ND		125	140		ug/L		112	72 - 134	13	15
Chlorobenzene	ND		125	132		ug/L		105	80 - 120	5	25
Dibromochloromethane	ND		125	139		ug/L		111	75 - 125	3	15
Chloroethane	10		125	127		ug/L		94	69 - 136	12	15
Chloroform	ND		125	121		ug/L		97	73 - 127	9	20
Chloromethane	ND		125	109		ug/L		87	68 - 124	12	15
cis-1,2-Dichloroethene	ND		125	136		ug/L		108	74 - 124	6	15
cis-1,3-Dichloropropene	ND		125	128		ug/L		103	74 - 124	4	15
Cyclohexane	ND		125	136		ug/L		109	59 - 135	17	20
Dichlorodifluoromethane	ND		125	117		ug/L		94	59 - 135	16	20
Ethylbenzene	11		125	142		ug/L		104	77 - 123	5	15
1,2-Dibromoethane	ND		125	123		ug/L		99	77 - 120	7	15
Isopropylbenzene	24		125	159		ug/L		108	77 - 122	3	20
Methyl acetate	ND		250	235		ug/L		94	74 - 133	2	20
Methyl tert-butyl ether	33		125	157		ug/L		99	77 - 120	4	37
Methylcyclohexane	1.1	J	125	146		ug/L		116	68 - 134	8	20
Methylene Chloride	ND		125	114		ug/L		92	75 - 124	2	15
Styrene	ND		125	130		ug/L		104	80 - 120	4	20
Tetrachloroethene	ND		125	135		ug/L		108	74 - 122	2	20
Toluene	9.5		125	141		ug/L		105	80 - 122	2	15
trans-1,2-Dichloroethene	ND		125	134		ug/L		108	73 - 127	5	20
trans-1,3-Dichloropropene	ND		125	132		ug/L		106	80 - 120	0	15
Trichloroethene	ND		125	128		ug/L		102	74 - 123	11	16
Trichlorofluoromethane	ND		125	133		ug/L		107	62 - 150	11	20
Vinyl chloride	ND		125	118		ug/L		95	65 - 133	15	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: MB 480-421204/7

Matrix: Water

Analysis Batch: 421204

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/23/18 11:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/23/18 11:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/23/18 11:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/23/18 11:54	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-421204/7

Matrix: Water

Analysis Batch: 421204

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/23/18 11:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/23/18 11:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/23/18 11:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/23/18 11:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/23/18 11:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/23/18 11:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/23/18 11:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/23/18 11:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/23/18 11:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/23/18 11:54	1
2-Hexanone	ND		5.0	1.2	ug/L			06/23/18 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/23/18 11:54	1
Acetone	ND		10	3.0	ug/L			06/23/18 11:54	1
Benzene	ND		1.0	0.41	ug/L			06/23/18 11:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/23/18 11:54	1
Bromoform	ND		1.0	0.26	ug/L			06/23/18 11:54	1
Bromomethane	ND		1.0	0.69	ug/L			06/23/18 11:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/23/18 11:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/23/18 11:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/23/18 11:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/23/18 11:54	1
Chloroethane	ND		1.0	0.32	ug/L			06/23/18 11:54	1
Chloroform	ND		1.0	0.34	ug/L			06/23/18 11:54	1
Chloromethane	ND		1.0	0.35	ug/L			06/23/18 11:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/23/18 11:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/23/18 11:54	1
Cyclohexane	ND		1.0	0.18	ug/L			06/23/18 11:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/23/18 11:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/23/18 11:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/23/18 11:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/23/18 11:54	1
Methyl acetate	ND		2.5	1.3	ug/L			06/23/18 11:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/23/18 11:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/23/18 11:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/23/18 11:54	1
Styrene	ND		1.0	0.73	ug/L			06/23/18 11:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/23/18 11:54	1
Toluene	ND		1.0	0.51	ug/L			06/23/18 11:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/23/18 11:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/23/18 11:54	1
Trichloroethene	ND		1.0	0.46	ug/L			06/23/18 11:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/23/18 11:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/23/18 11:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/23/18 11:54	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/L					06/23/18 11:54	1

TestAmerica Buffalo

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-421204/7
Matrix: Water
Analysis Batch: 421204

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	104		80 - 120		06/23/18 11:54	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		06/23/18 11:54	1
4-Bromofluorobenzene (Surr)	101		73 - 120		06/23/18 11:54	1
Dibromofluoromethane (Surr)	106		75 - 123		06/23/18 11:54	1

Lab Sample ID: LCS 480-421204/5
Matrix: Water
Analysis Batch: 421204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5		ug/L		94	61 - 148
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	25.6		ug/L		103	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	56 - 134
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.9		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	23.9		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	80 - 120
2-Butanone (MEK)	125	118		ug/L		94	57 - 140
2-Hexanone	125	111		ug/L		88	65 - 127
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	25.5		ug/L		102	80 - 122
Bromoform	25.0	25.9		ug/L		104	61 - 132
Bromomethane	25.0	22.3		ug/L		89	55 - 144
Carbon disulfide	25.0	24.2		ug/L		97	59 - 134
Carbon tetrachloride	25.0	28.3		ug/L		113	72 - 134
Chlorobenzene	25.0	25.1		ug/L		100	80 - 120
Dibromochloromethane	25.0	26.9		ug/L		108	75 - 125
Chloroethane	25.0	22.9		ug/L		92	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	20.9		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		99	74 - 124
Cyclohexane	25.0	27.7		ug/L		111	59 - 135
Dichlorodifluoromethane	25.0	20.4		ug/L		82	59 - 135
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	23.2		ug/L		93	77 - 120
Isopropylbenzene	25.0	26.5		ug/L		106	77 - 122
Methyl acetate	50.0	43.1		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-421204/5
Matrix: Water
Analysis Batch: 421204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	25.0	27.4		ug/L		110	68 - 134
Methylene Chloride	25.0	22.2		ug/L		89	75 - 124
Styrene	25.0	25.1		ug/L		100	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	22.8		ug/L		91	62 - 150
Vinyl chloride	25.0	22.4		ug/L		90	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-420316/4
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	ND		7.5	1.5	ug/L			06/19/18 09:55	1
Ethene	ND		7.0	1.5	ug/L			06/19/18 09:55	1

Lab Sample ID: LCS 480-420316/5
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	14.6	13.1		ug/L		90	79 - 120
Ethene	13.6	12.0		ug/L		88	85 - 120

Lab Sample ID: LCSD 480-420316/6
Matrix: Water
Analysis Batch: 420316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	14.6	13.8		ug/L		95	79 - 120	6	50
Ethene	13.6	12.8		ug/L		94	85 - 120	6	50

QC Sample Results

Client: LaBella Associates DPC
 Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 480-420962/4
Matrix: Water
Analysis Batch: 420962

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			06/21/18 20:55	1
Sulfate	ND		2.0	0.35	mg/L			06/21/18 20:55	1

Lab Sample ID: LCS 480-420962/3
Matrix: Water
Analysis Batch: 420962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.62		mg/L		101	90 - 110
Sulfate	50.0	51.34		mg/L		103	90 - 110

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-420230/3
Matrix: Water
Analysis Batch: 420230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.075	mg/L			06/18/18 13:00	1

Lab Sample ID: LCS 480-420230/4
Matrix: Water
Analysis Batch: 420230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	1.88		mg/L		94	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-420855/3
Matrix: Water
Analysis Batch: 420855

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			06/21/18 10:44	1

Lab Sample ID: LCS 480-420855/4
Matrix: Water
Analysis Batch: 420855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	9.20	8.80		mg/L		96	90 - 110

Lab Sample ID: 480-137605-1 DU
Matrix: Water
Analysis Batch: 420855

Client Sample ID: ML-2-D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

TestAmerica Buffalo

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

GC/MS VOA

Analysis Batch: 421186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	8260C	
480-137605-4	TB	Total/NA	Water	8260C	
MB 480-421186/6	Method Blank	Total/NA	Water	8260C	
LCS 480-421186/4	Lab Control Sample	Total/NA	Water	8260C	
480-137605-1 MS	ML-2-D	Total/NA	Water	8260C	
480-137605-1 MSD	ML-2-D	Total/NA	Water	8260C	

Analysis Batch: 421204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-2	DUPE	Total/NA	Water	8260C	
480-137605-3	ML-2-I	Total/NA	Water	8260C	
MB 480-421204/7	Method Blank	Total/NA	Water	8260C	
LCS 480-421204/5	Lab Control Sample	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 420316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	RSK-175	
480-137605-3	ML-2-I	Total/NA	Water	RSK-175	
MB 480-420316/4	Method Blank	Total/NA	Water	RSK-175	
LCS 480-420316/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-420316/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

General Chemistry

Analysis Batch: 420230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	SM 3500 FE D	
480-137605-3	ML-2-I	Total/NA	Water	SM 3500 FE D	
MB 480-420230/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 480-420230/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 420512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	353.2	
480-137605-3	ML-2-I	Total/NA	Water	353.2	

Analysis Batch: 420513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	353.2	
480-137605-3	ML-2-I	Total/NA	Water	353.2	

Analysis Batch: 420855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	SM 4500 S2 F	
480-137605-3	ML-2-I	Total/NA	Water	SM 4500 S2 F	
MB 480-420855/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-420855/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-137605-1 DU	ML-2-D	Total/NA	Water	SM 4500 S2 F	

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

General Chemistry (Continued)

Analysis Batch: 420962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137605-1	ML-2-D	Total/NA	Water	9056A	
480-137605-3	ML-2-I	Total/NA	Water	9056A	
MB 480-420962/4	Method Blank	Total/NA	Water	9056A	
LCS 480-420962/3	Lab Control Sample	Total/NA	Water	9056A	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Client Sample ID: ML-2-D

Date Collected: 06/15/18 12:45

Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	421186	06/23/18 04:32	RLB	TAL BUF
Total/NA	Analysis	RSK-175		11	420316	06/19/18 14:49	DSC	TAL BUF
Total/NA	Analysis	353.2		1	420512	06/19/18 17:10	DCB	TAL BUF
Total/NA	Analysis	353.2		1	420513	06/19/18 17:10	DCB	TAL BUF
Total/NA	Analysis	9056A		10	420962	06/21/18 21:11	DMR	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	420230	06/18/18 13:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	420855	06/21/18 10:44	MJB	TAL BUF

Client Sample ID: DUPE

Date Collected: 06/15/18 00:00

Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	421204	06/23/18 18:03	KMN	TAL BUF

Client Sample ID: ML-2-I

Date Collected: 06/15/18 11:44

Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	421204	06/23/18 18:26	KMN	TAL BUF
Total/NA	Analysis	RSK-175		22	420316	06/19/18 13:04	DSC	TAL BUF
Total/NA	Analysis	353.2		1	420512	06/19/18 17:11	DCB	TAL BUF
Total/NA	Analysis	353.2		1	420513	06/19/18 17:11	DCB	TAL BUF
Total/NA	Analysis	9056A		10	420962	06/21/18 21:19	DMR	TAL BUF
Total/NA	Analysis	SM 3500 FE D		1	420230	06/18/18 13:00	MDL	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	420855	06/21/18 10:44	MJB	TAL BUF

Client Sample ID: TB

Date Collected: 06/15/18 00:00

Date Received: 06/16/18 09:00

Lab Sample ID: 480-137605-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421186	06/23/18 05:42	RLB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Emerson Street Landfill Project

TestAmerica Job ID: 480-137605-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9056A		Water	Chloride
9056A		Water	Sulfate
SM 3500 FE D		Water	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

Volatile Organic Compounds (GC/MS)
by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2-D	480-137605-1	99	101	99	99
DUPE	480-137605-2	105	104	102	102
ML-2-I	480-137605-3	103	104	97	96
TB	480-137605-4	103	103	98	103
	MB 480-421186/6	96	101	100	98
	MB 480-421204/7	106	105	104	101
	LCS 480-421186/4	104	101	99	100
	LCS 480-421204/5	101	98	101	100
ML-2-D MS	480-137605-1 MS	102	102	99	99
ML-2-D MSD	480-137605-1 MSD	100	103	99	99

DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
 75-123
 77-120
 80-120
 73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2617.D

Lab ID: LCS 480-421186/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	28.8	115	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.9	99	76-120	
1,1,2-Trichloroethane	25.0	25.4	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	100	61-148	
1,1-Dichloroethane	25.0	27.1	108	77-120	
1,1-Dichloroethene	25.0	30.2	121	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.1	96	56-134	
1,2-Dichlorobenzene	25.0	25.7	103	80-124	
1,2-Dichloroethane	25.0	26.4	105	75-120	
1,2-Dichloropropane	25.0	25.9	104	76-120	
1,3-Dichlorobenzene	25.0	25.7	103	77-120	
1,4-Dichlorobenzene	25.0	26.1	104	80-120	
2-Butanone (MEK)	125	117	93	57-140	
2-Hexanone	125	111	89	65-127	
4-Methyl-2-pentanone (MIBK)	125	111	89	71-125	
Acetone	125	107	85	56-142	
Benzene	25.0	27.2	109	71-124	
Bromodichloromethane	25.0	28.7	115	80-122	
Bromoform	25.0	28.3	113	61-132	
Bromomethane	25.0	23.1	92	55-144	
Carbon disulfide	25.0	28.3	113	59-134	
Carbon tetrachloride	25.0	31.0	124	72-134	
Chlorobenzene	25.0	26.3	105	80-120	
Dibromochloromethane	25.0	28.3	113	75-125	
Chloroethane	25.0	24.2	97	69-136	
Chloroform	25.0	25.9	104	73-127	
Chloromethane	25.0	22.1	89	68-124	
cis-1,2-Dichloroethene	25.0	27.4	110	74-124	
cis-1,3-Dichloropropene	25.0	27.4	110	74-124	
Cyclohexane	25.0	30.2	121	59-135	
Dichlorodifluoromethane	25.0	22.8	91	59-135	
Ethylbenzene	25.0	27.1	108	77-123	
1,2-Dibromoethane	25.0	25.0	100	77-120	
Isopropylbenzene	25.0	27.2	109	77-122	
Methyl acetate	50.0	44.5	89	74-133	
Methyl tert-butyl ether	25.0	26.0	104	77-120	
Methylcyclohexane	25.0	31.1	124	68-134	
Methylene Chloride	25.0	24.3	97	75-124	
Styrene	25.0	26.5	106	80-120	
Tetrachloroethene	25.0	26.7	107	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2617.D

Lab ID: LCS 480-421186/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	26.6	106	80-122	
trans-1,2-Dichloroethene	25.0	28.1	112	73-127	
trans-1,3-Dichloropropene	25.0	27.3	109	80-120	
Trichloroethene	25.0	27.7	111	74-123	
Trichlorofluoromethane	25.0	26.6	106	62-150	
Vinyl chloride	25.0	23.9	96	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2644.D

Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.6	102	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.7	95	76-120	
1,1,2-Trichloroethane	25.0	24.3	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5	94	61-148	
1,1-Dichloroethane	25.0	24.5	98	77-120	
1,1-Dichloroethene	25.0	25.6	103	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.2	97	56-134	
1,2-Dichlorobenzene	25.0	24.5	98	80-124	
1,2-Dichloroethane	25.0	23.9	95	75-120	
1,2-Dichloropropane	25.0	23.9	96	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	24.9	99	80-120	
2-Butanone (MEK)	125	118	94	57-140	
2-Hexanone	125	111	88	65-127	
4-Methyl-2-pentanone (MIBK)	125	109	87	71-125	
Acetone	125	116	93	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	25.5	102	80-122	
Bromoform	25.0	25.9	104	61-132	
Bromomethane	25.0	22.3	89	55-144	
Carbon disulfide	25.0	24.2	97	59-134	
Carbon tetrachloride	25.0	28.3	113	72-134	
Chlorobenzene	25.0	25.1	100	80-120	
Dibromochloromethane	25.0	26.9	108	75-125	
Chloroethane	25.0	22.9	92	69-136	
Chloroform	25.0	24.2	97	73-127	
Chloromethane	25.0	20.9	84	68-124	
cis-1,2-Dichloroethene	25.0	25.3	101	74-124	
cis-1,3-Dichloropropene	25.0	24.9	99	74-124	
Cyclohexane	25.0	27.7	111	59-135	
Dichlorodifluoromethane	25.0	20.4	82	59-135	
Ethylbenzene	25.0	25.9	104	77-123	
1,2-Dibromoethane	25.0	23.2	93	77-120	
Isopropylbenzene	25.0	26.5	106	77-122	
Methyl acetate	50.0	43.1	86	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	27.4	110	68-134	
Methylene Chloride	25.0	22.2	89	75-124	
Styrene	25.0	25.1	100	80-120	
Tetrachloroethene	25.0	25.7	103	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2644.D

Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.3	101	80-122	
trans-1,2-Dichloroethene	25.0	25.3	101	73-127	
trans-1,3-Dichloropropene	25.0	25.3	101	80-120	
Trichloroethene	25.0	25.3	101	74-123	
Trichlorofluoromethane	25.0	22.8	91	62-150	
Vinyl chloride	25.0	22.4	90	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S2638.D

Lab ID: 480-137605-1 MS

Client ID: ML-2-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	6.1	149	115	73-126	
1,1,2,2-Tetrachloroethane	125	ND	128	102	76-120	
1,1,2-Trichloroethane	125	ND	128	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	2.8 J	145	114	61-148	
1,1-Dichloroethane	125	49	185	109	77-120	
1,1-Dichloroethene	125	ND	157	126	66-127	
1,2,4-Trichlorobenzene	125	ND	138	111	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	132	106	56-134	
1,2-Dichlorobenzene	125	ND	130	104	80-124	
1,2-Dichloroethane	125	ND	132	106	75-120	
1,2-Dichloropropane	125	ND	133	106	76-120	
1,3-Dichlorobenzene	125	ND	133	107	77-120	
1,4-Dichlorobenzene	125	ND	132	106	78-124	
2-Butanone (MEK)	625	19 J	662	103	57-140	
2-Hexanone	625	ND	581	93	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	594	95	71-125	
Acetone	625	ND	626	100	56-142	
Benzene	125	21	159	110	71-124	
Bromodichloromethane	125	ND	143	114	80-122	
Bromoform	125	ND	147	117	61-132	
Bromomethane	125	ND	124	100	55-144	
Carbon disulfide	125	ND	144	115	59-134	
Carbon tetrachloride	125	ND	158	127	72-134	
Chlorobenzene	125	ND	138	110	80-120	
Dibromochloromethane	125	ND	143	114	75-125	
Chloroethane	125	10	144	107	69-136	
Chloroform	125	ND	132	105	73-127	
Chloromethane	125	ND	122	98	68-124	
cis-1,2-Dichloroethene	125	ND	144	115	74-124	
cis-1,3-Dichloropropene	125	ND	133	107	74-124	
Cyclohexane	125	ND	162	129	59-135	
Dichlorodifluoromethane	125	ND	137	110	59-135	
Ethylbenzene	125	11	150	111	77-123	
1,2-Dibromoethane	125	ND	132	106	77-120	
Isopropylbenzene	125	24	165	112	77-122	
Methyl acetate	250	ND	241	96	74-133	
Methyl tert-butyl ether	125	33	163	103	77-120	
Methylcyclohexane	125	1.1 J	158	125	68-134	
Methylene Chloride	125	ND	117	94	75-124	
Styrene	125	ND	136	109	80-120	
Tetrachloroethene	125	ND	138	110	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2638.D

Lab ID: 480-137605-1 MS Client ID: ML-2-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	9.5	143	107	80-122	
trans-1,2-Dichloroethene	125	ND	142	113	73-127	
trans-1,3-Dichloropropene	125	ND	132	105	80-120	
Trichloroethene	125	ND	142	114	74-123	
Trichlorofluoromethane	125	ND	148	118	62-150	
Vinyl chloride	125	ND	138	110	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: S2639.D

Lab ID: 480-137605-1 MSD

Client ID: ML-2-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	125	142	109	5	15	73-126	
1,1,2,2-Tetrachloroethane	125	129	103	1	15	76-120	
1,1,2-Trichloroethane	125	126	101	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	127	99	14	20	61-148	
1,1-Dichloroethane	125	173	100	7	20	77-120	
1,1-Dichloroethene	125	137	109	14	16	66-127	
1,2,4-Trichlorobenzene	125	133	107	4	20	79-122	
1,2-Dibromo-3-Chloropropane	125	132	106	0	15	56-134	
1,2-Dichlorobenzene	125	131	105	0	20	80-124	
1,2-Dichloroethane	125	123	99	7	20	75-120	
1,2-Dichloropropane	125	123	99	8	20	76-120	
1,3-Dichlorobenzene	125	131	105	2	20	77-120	
1,4-Dichlorobenzene	125	130	104	2	20	78-124	
2-Butanone (MEK)	625	636	99	4	20	57-140	
2-Hexanone	625	566	91	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	588	94	1	35	71-125	
Acetone	625	613	98	2	15	56-142	
Benzene	125	148	101	7	13	71-124	
Bromodichloromethane	125	139	111	3	15	80-122	
Bromoform	125	144	115	2	15	61-132	
Bromomethane	125	114	91	9	15	55-144	
Carbon disulfide	125	130	104	10	15	59-134	
Carbon tetrachloride	125	140	112	13	15	72-134	
Chlorobenzene	125	132	105	5	25	80-120	
Dibromochloromethane	125	139	111	3	15	75-125	
Chloroethane	125	127	94	12	15	69-136	
Chloroform	125	121	97	9	20	73-127	
Chloromethane	125	109	87	12	15	68-124	
cis-1,2-Dichloroethene	125	136	108	6	15	74-124	
cis-1,3-Dichloropropene	125	128	103	4	15	74-124	
Cyclohexane	125	136	109	17	20	59-135	
Dichlorodifluoromethane	125	117	94	16	20	59-135	
Ethylbenzene	125	142	104	5	15	77-123	
1,2-Dibromoethane	125	123	99	7	15	77-120	
Isopropylbenzene	125	159	108	3	20	77-122	
Methyl acetate	250	235	94	2	20	74-133	
Methyl tert-butyl ether	125	157	99	4	37	77-120	
Methylcyclohexane	125	146	116	8	20	68-134	
Methylene Chloride	125	114	92	2	15	75-124	
Styrene	125	130	104	4	20	80-120	
Tetrachloroethene	125	135	108	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2639.D

Lab ID: 480-137605-1 MSD Client ID: ML-2-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	125	141	105	2	15	80-122	
trans-1,2-Dichloroethene	125	134	108	5	20	73-127	
trans-1,3-Dichloropropene	125	132	106	0	15	80-120	
Trichloroethene	125	128	102	11	16	74-123	
Trichlorofluoromethane	125	133	107	11	20	62-150	
Vinyl chloride	125	118	95	15	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2619.D Lab Sample ID: MB 480-421186/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 06/22/2018 21:52
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421186/4	S2617.D	06/22/2018 20:53
ML-2-D	480-137605-1	S2632.D	06/23/2018 04:32
TB	480-137605-4	S2635.D	06/23/2018 05:42
ML-2-D MS	480-137605-1 MS	S2638.D	06/23/2018 06:52
ML-2-D MSD	480-137605-1 MSD	S2639.D	06/23/2018 07:15

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2646.D Lab Sample ID: MB 480-421204/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 06/23/2018 11:54
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421204/5	S2644.D	06/23/2018 11:07
DUPE	480-137605-2	S2661.D	06/23/2018 18:03
ML-2-I	480-137605-3	S2662.D	06/23/2018 18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2504.D BFB Injection Date: 06/20/2018
 Instrument ID: HP5973S BFB Injection Time: 12:54
 Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	6.2	(7.7) 1
176	95.0 - 101.0 % of mass 174	77.9	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.6	(5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2614.D BFB Injection Date: 06/22/2018
 Instrument ID: HP5973S BFB Injection Time: 19:38
 Analysis Batch No.: 421186

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.6	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	73.9	
175	5.0 - 9.0 % of mass 174	6.1	(8.3) 1
176	95.0 - 101.0 % of mass 174	72.7	(98.4) 1
177	5.0 - 9.0 % of mass 176	5.3	(7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421186/2	S2615.D	06/22/2018	20:06
	LCS 480-421186/4	S2617.D	06/22/2018	20:53
	MB 480-421186/6	S2619.D	06/22/2018	21:52
ML-2-D	480-137605-1	S2632.D	06/23/2018	04:32
TB	480-137605-4	S2635.D	06/23/2018	05:42
ML-2-D MS	480-137605-1 MS	S2638.D	06/23/2018	06:52
ML-2-D MSD	480-137605-1 MSD	S2639.D	06/23/2018	07:15

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2641.D BFB Injection Date: 06/23/2018
 Instrument ID: HP5973S BFB Injection Time: 09:52
 Analysis Batch No.: 421204

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.2
75	30.0 - 60.0 % of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.4
175	5.0 - 9.0 % of mass 174	5.9 (7.4) 1
176	95.0 - 101.0 % of mass 174	76.8 (96.7) 1
177	5.0 - 9.0 % of mass 176	5.5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421204/3	S2642.D	06/23/2018	10:20
	LCS 480-421204/5	S2644.D	06/23/2018	11:07
	MB 480-421204/7	S2646.D	06/23/2018	11:54
DUPE	480-137605-2	S2661.D	06/23/2018	18:03
ML-2-I	480-137605-3	S2662.D	06/23/2018	18:26

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N
 Calibration ID: 34116

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT	394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT	98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-421186/2	192826	5.51	391073	8.51	358460	10.89
CCVIS 480-421204/3	200347	5.51	390439	8.51	349453	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Sample No.: CCVIS 480-421186/2 Date Analyzed: 06/22/2018 20:06
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2615.D Heated Purge: (Y/N) N
 Calibration ID: 34119

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	192826	5.51	391073	8.51	358460	10.89	
UPPER LIMIT	385652	6.01	782146	9.01	716920	11.39	
LOWER LIMIT	96413	5.01	195537	8.01	179230	10.39	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421186/4	183838	5.51	385471	8.51	357366	10.89	
MB 480-421186/6	189930	5.51	379608	8.51	343562	10.89	
480-137605-1	ML-2-D	186481	5.51	371814	8.51	341170	10.89
480-137605-4	TB	180532	5.52	373368	8.51	329686	10.89
480-137605-1 MS	ML-2-D MS	187690	5.51	383132	8.51	355214	10.89
480-137605-1 MSD	ML-2-D MSD	193127	5.51	385128	8.51	349172	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Sample No.: CCVIS 480-421204/3 Date Analyzed: 06/23/2018 10:20
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2642.D Heated Purge: (Y/N) N
 Calibration ID: 34119

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	200347	5.51	390439	8.51	349453	10.89	
UPPER LIMIT	400694	6.01	780878	9.01	698906	11.39	
LOWER LIMIT	100174	5.01	195220	8.01	174727	10.39	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421204/5	195959	5.51	388813	8.51	353233	10.89	
MB 480-421204/7	349725	5.51	714901	8.52	671304	10.89	
480-137605-2	DUPE	181861	5.51	371582	8.51	347698	10.89
480-137605-3	ML-2-I	184824	5.51	384302	8.51	342910	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: S2632.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	6.1		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6
75-34-3	1,1-Dichloroethane	49		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	19	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	21		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	10		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	11		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	24		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: S2632.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	33		5.0	0.80
108-87-2	Methylcyclohexane	1.1	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	9.5		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	94		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: S2632.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L
 Number TICs Found: 3 TIC Result Total: 89

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.52	17	T J	
95-63-6	Benzene, 1,2,4-trimethyl-	10.53	43	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.94	29	T J N	94%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
 Lims ID: 480-137605-F-1
 Client ID: ML-2-D
 Sample Type: Client
 Inject. Date: 23-Jun-2018 04:32:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-F-1
 Misc. Info.: 480-0072570-020
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 14:20:22 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner Date: 23-Jun-2018 14:20:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	186481	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	371814	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	341170	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	63	221234	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.236	0.006	0	146968	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	93	893538	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	91	275968	24.8	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.464				ND	U
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.872				ND	
15 Chloroethane	64	1.975	1.975	-0.006	50	15528	2.02	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	1	1361	0.5547	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43	2.851	2.851	0.006	69	8987	2.50	M
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.253				ND	
32 Methyl tert-butyl ether	73	3.453	3.453	-0.001	91	206221	6.68	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	3	4740	0.5028	
39 1,1-Dichloroethane	63	3.898	3.898	0.000	93	194702	9.80	
45 cis-1,2-Dichloroethene	96	4.457	4.451	0.006	34	3102	0.2864	
43 2-Butanone (MEK)	43	4.500	4.512	0.006	29	20518	3.72	
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	64	15642	1.21	
52 Cyclohexane	56	4.883	4.883	0.006	3	2787	0.1605	a
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78	5.236	5.236	0.000	69	168239	4.25	
58 1,2-Dichloroethane	62		5.315				ND	
62 Trichloroethene	95	5.850	5.850	-0.001	1	1483	0.1453	a

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	18	3424	0.2203	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	37	2987	0.2516	a
74 Toluene	92	7.085	7.092	-0.001	80	47135	1.91	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.621				ND	
80 2-Hexanone	43	7.797	7.797	0.006	1	2652	0.3035	a
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112	8.539	8.539	-0.001	1	6094	0.2250	a
88 Ethylbenzene	91	8.631	8.631	0.000	97	97753	2.19	
90 m-Xylene & p-Xylene	106	8.746	8.752	-0.006	0	307968	17.0	
91 o-Xylene	106	9.178	9.172	0.000	88	29504	1.72	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105	9.561	9.562	-0.001	95	209796	4.88	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146	11.259	11.259	-0.006	9	2967	0.1425	a
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		18.7	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
 Lims ID: 480-137605-F-1
 Client ID: ML-2-D
 Sample Type: Client
 Inject. Date: 23-Jun-2018 04:32:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-F-1
 Misc. Info.: 480-0072570-020
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 14:20:22 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013
 First Level Reviewer: baroner Date: 23-Jun-2018 14:20:22

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
Unknown								
1.519	277524	3.39	153					
10.529	719360	8.52	3	94	119304	C9H12	120	
10.936	486251	5.76	3	94	119302	C9H12	120	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.510	2044064	25.0
* 3 1,4-Dichlorobenzene-d4	10.888	2110982	25.0

QC Flag Legend

Processing Flags

Reagents:

S_8260_IS_00292 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00271 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Worklist Smp#: 20

Client ID: ML-2-D

Purge Vol: 5.000 mL

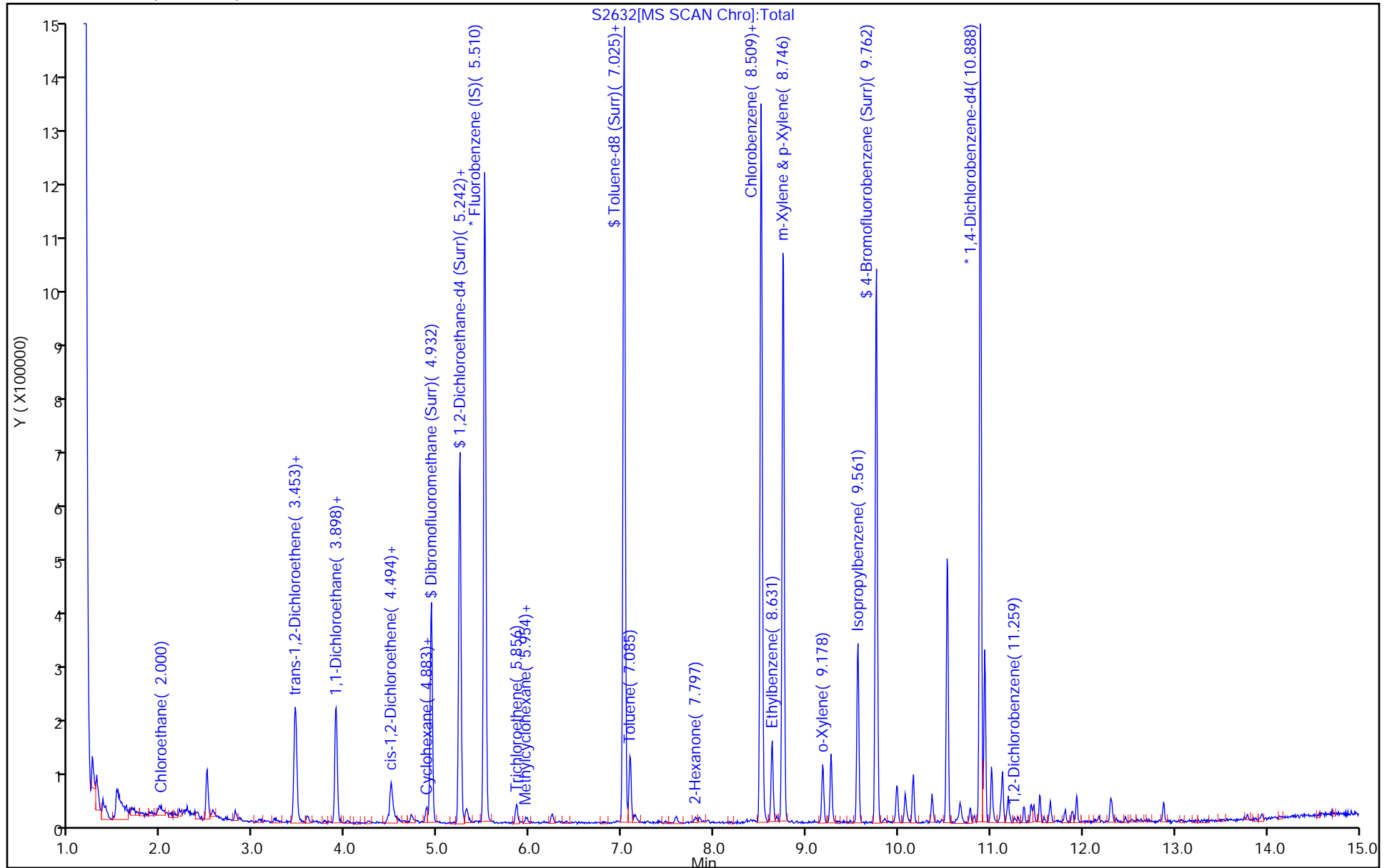
Dil. Factor: 5.0000

ALS Bottle#: 19

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

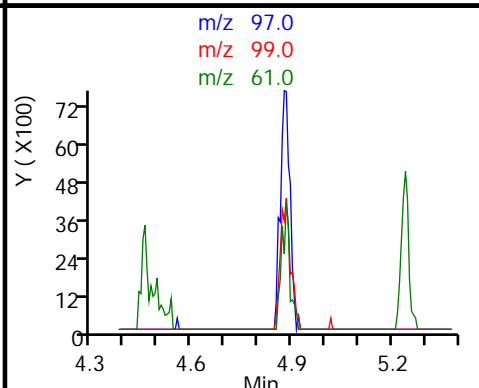
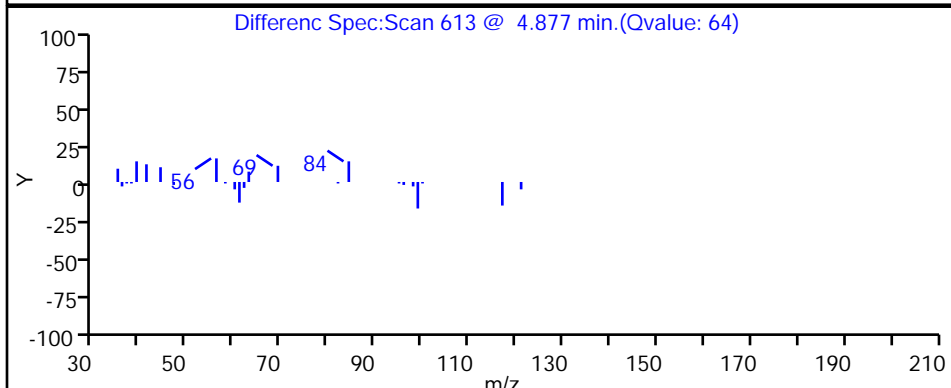
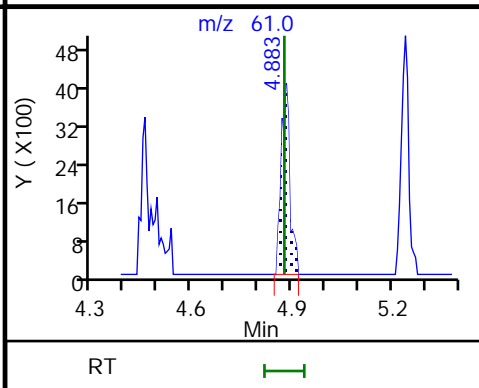
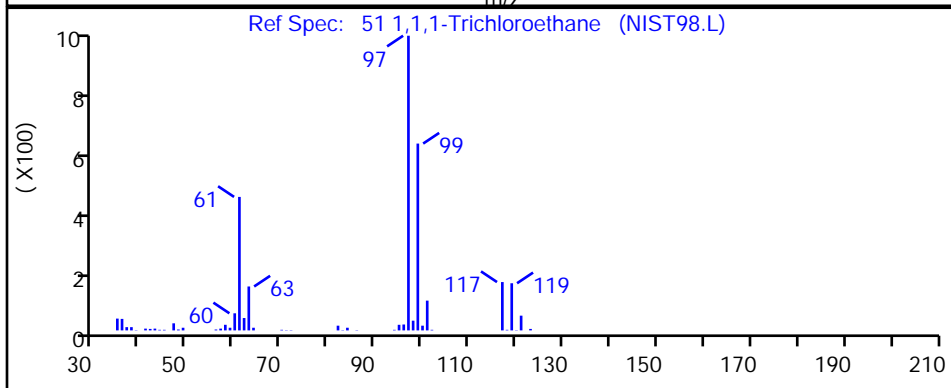
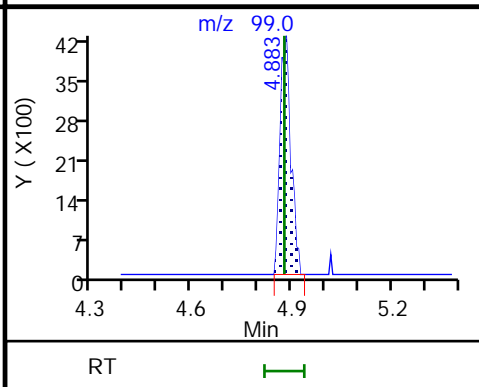
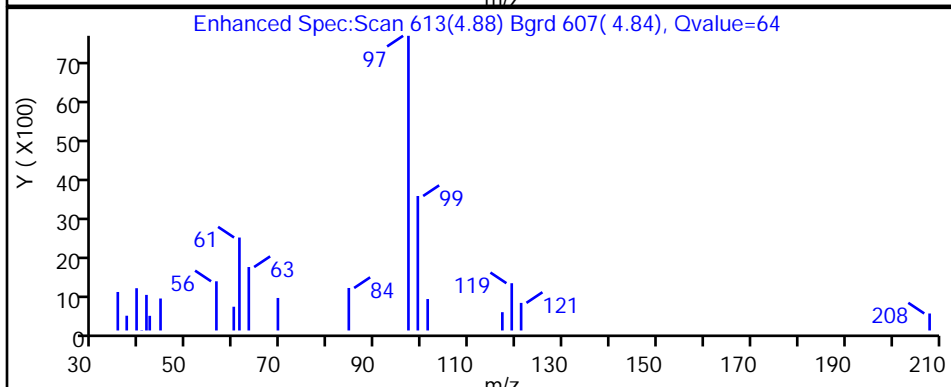
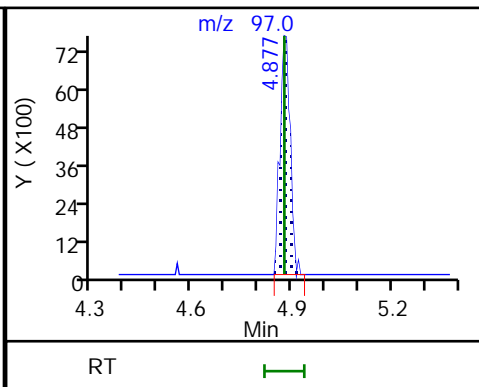
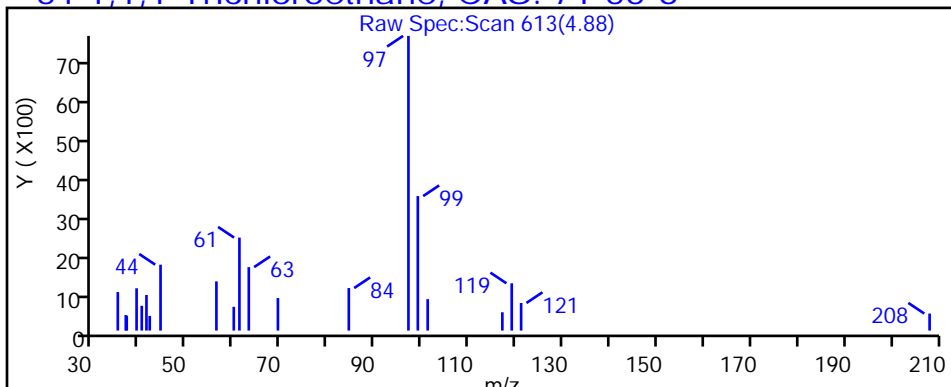
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

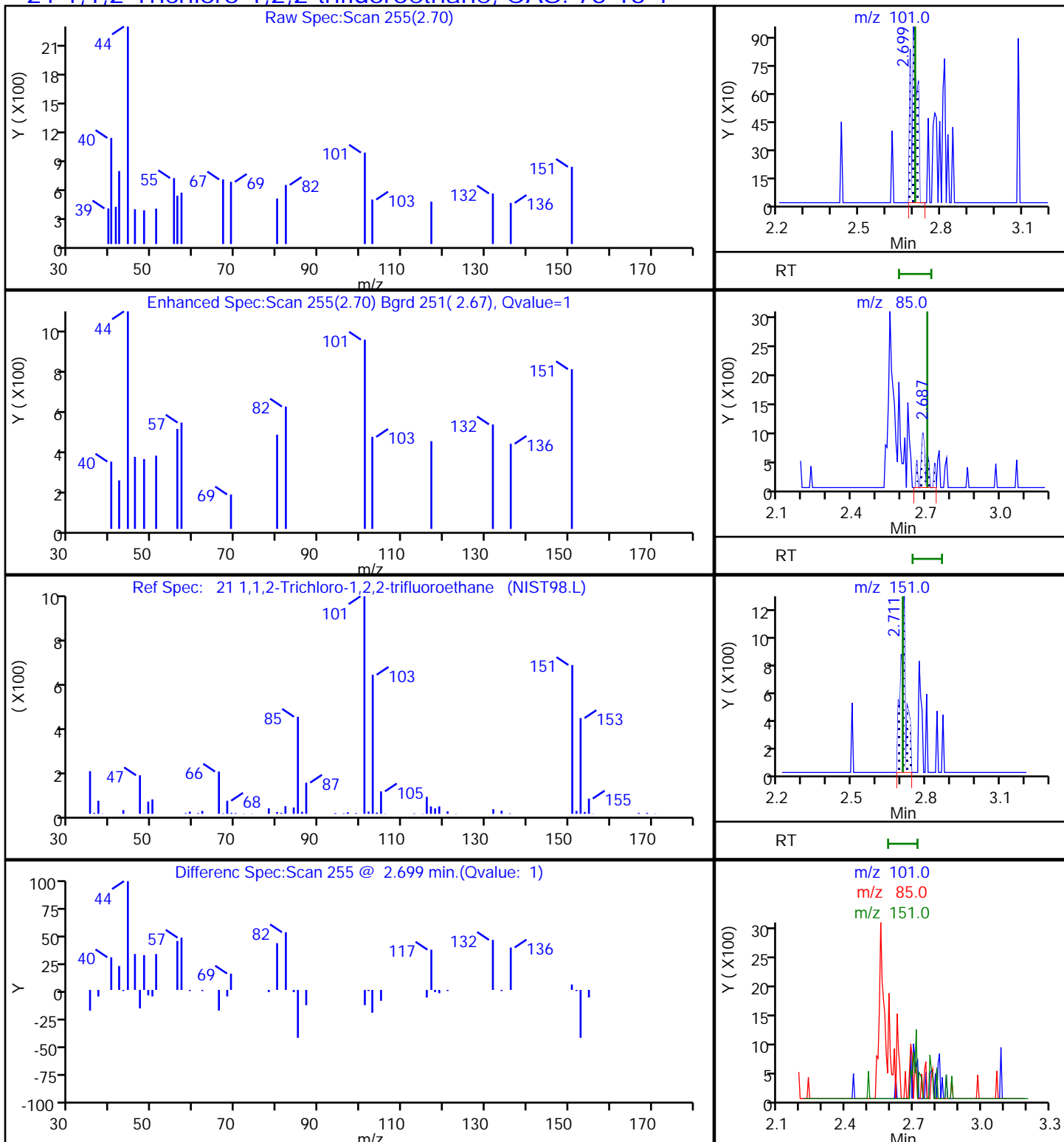
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

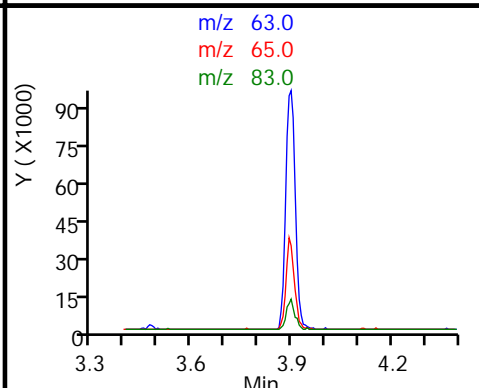
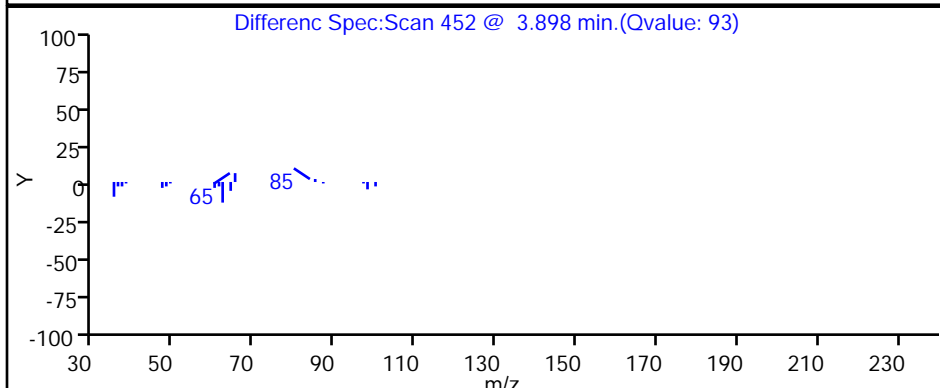
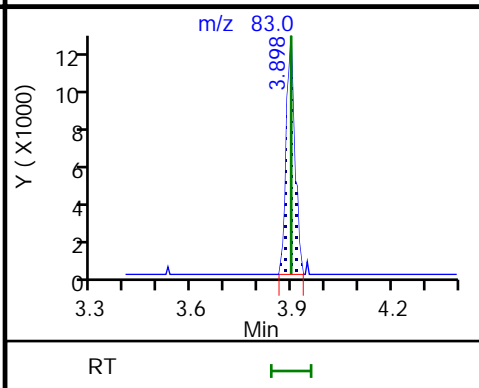
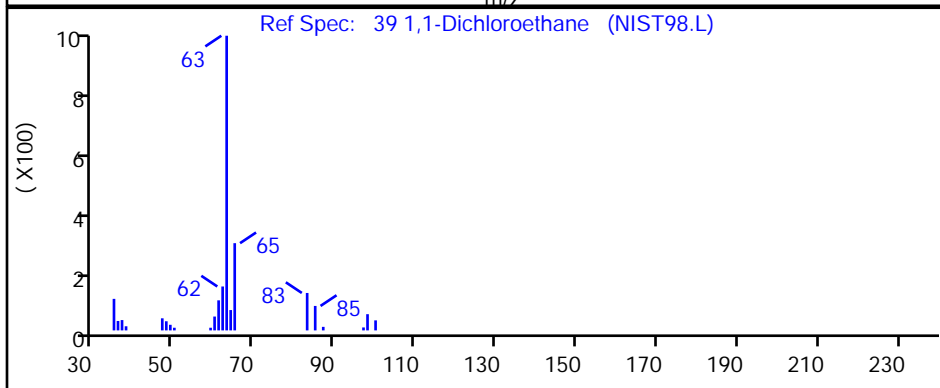
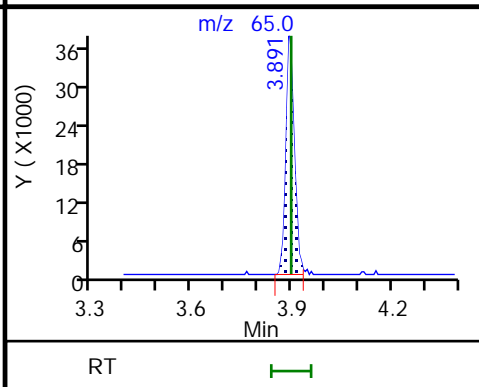
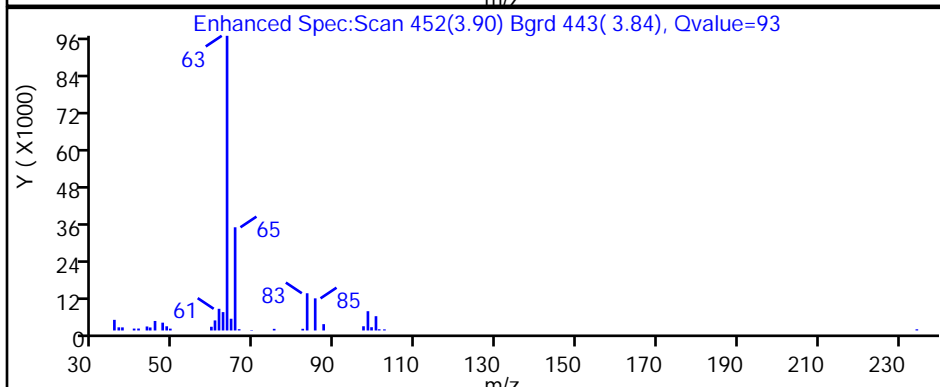
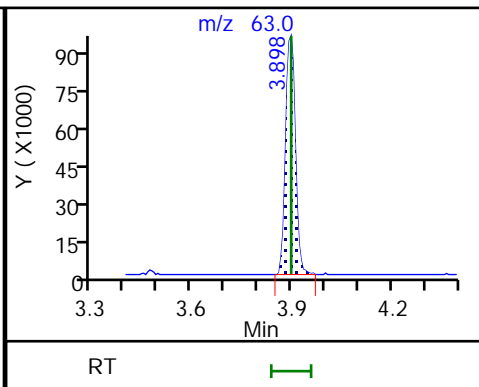
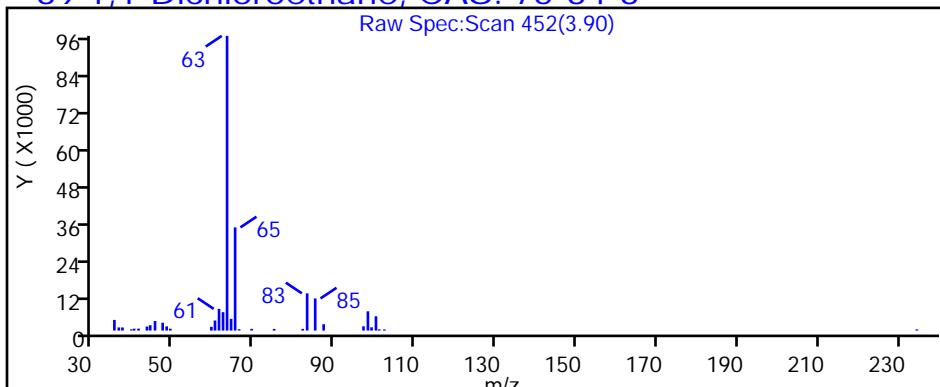
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

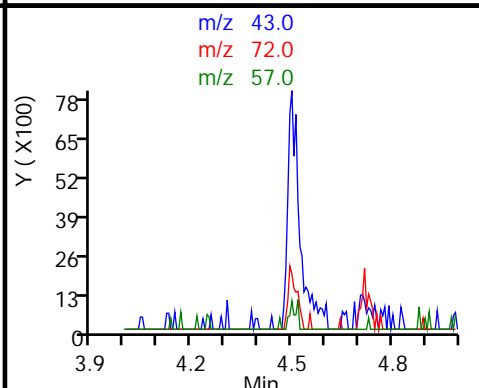
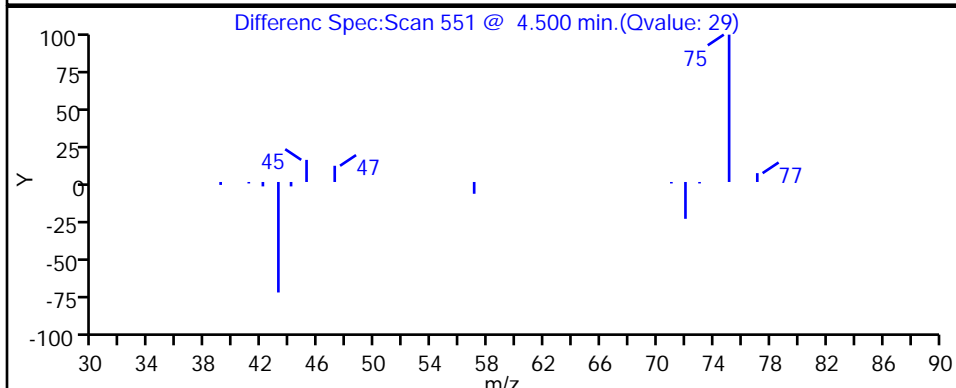
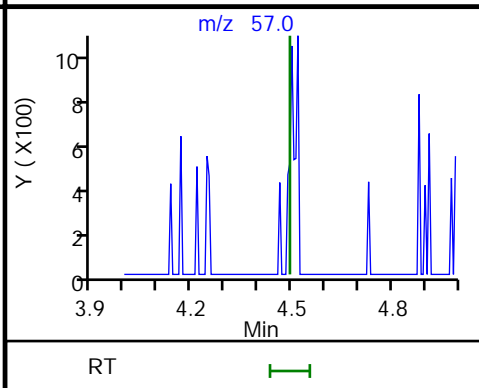
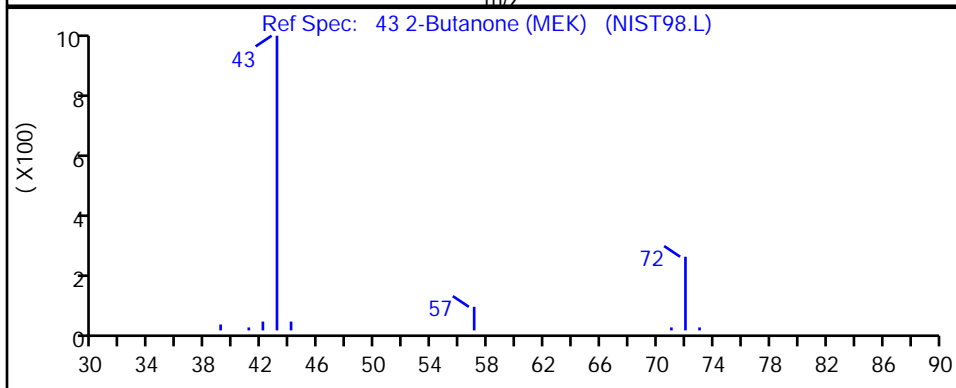
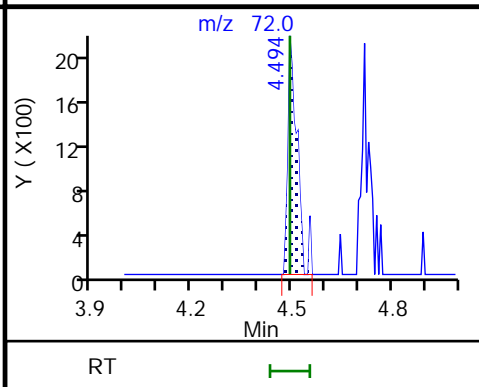
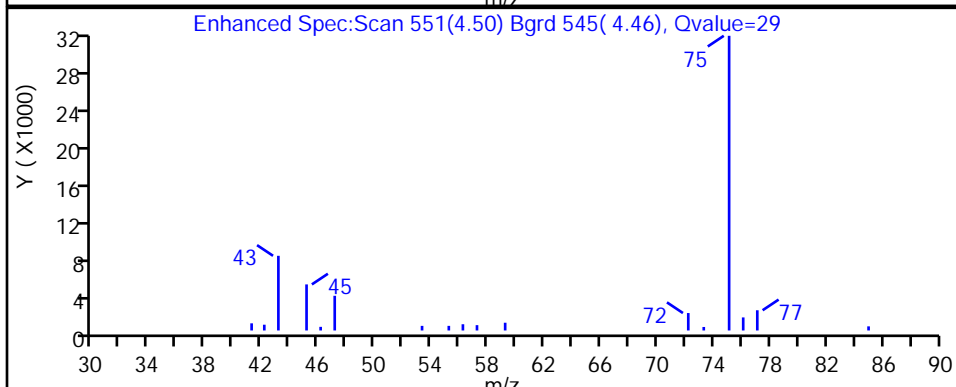
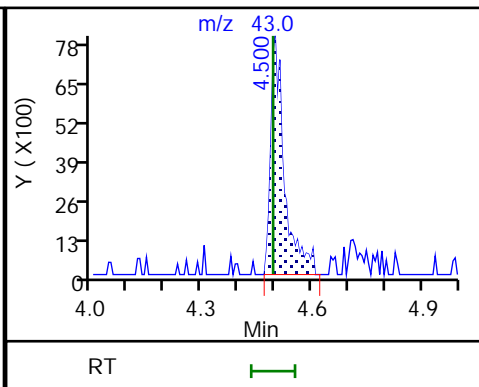
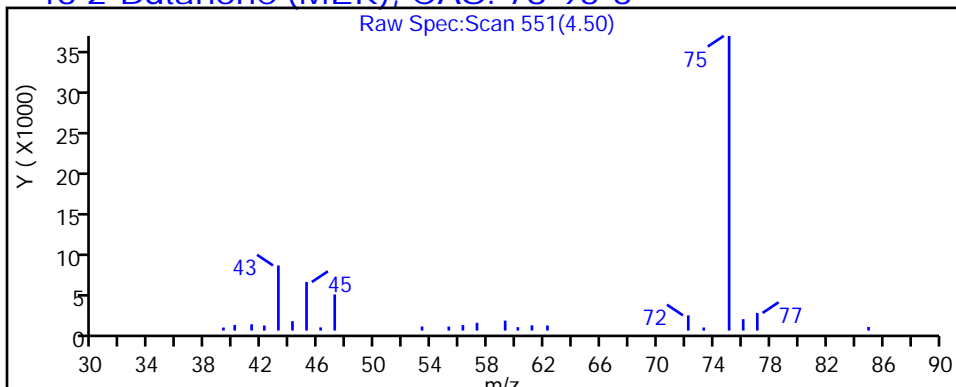
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

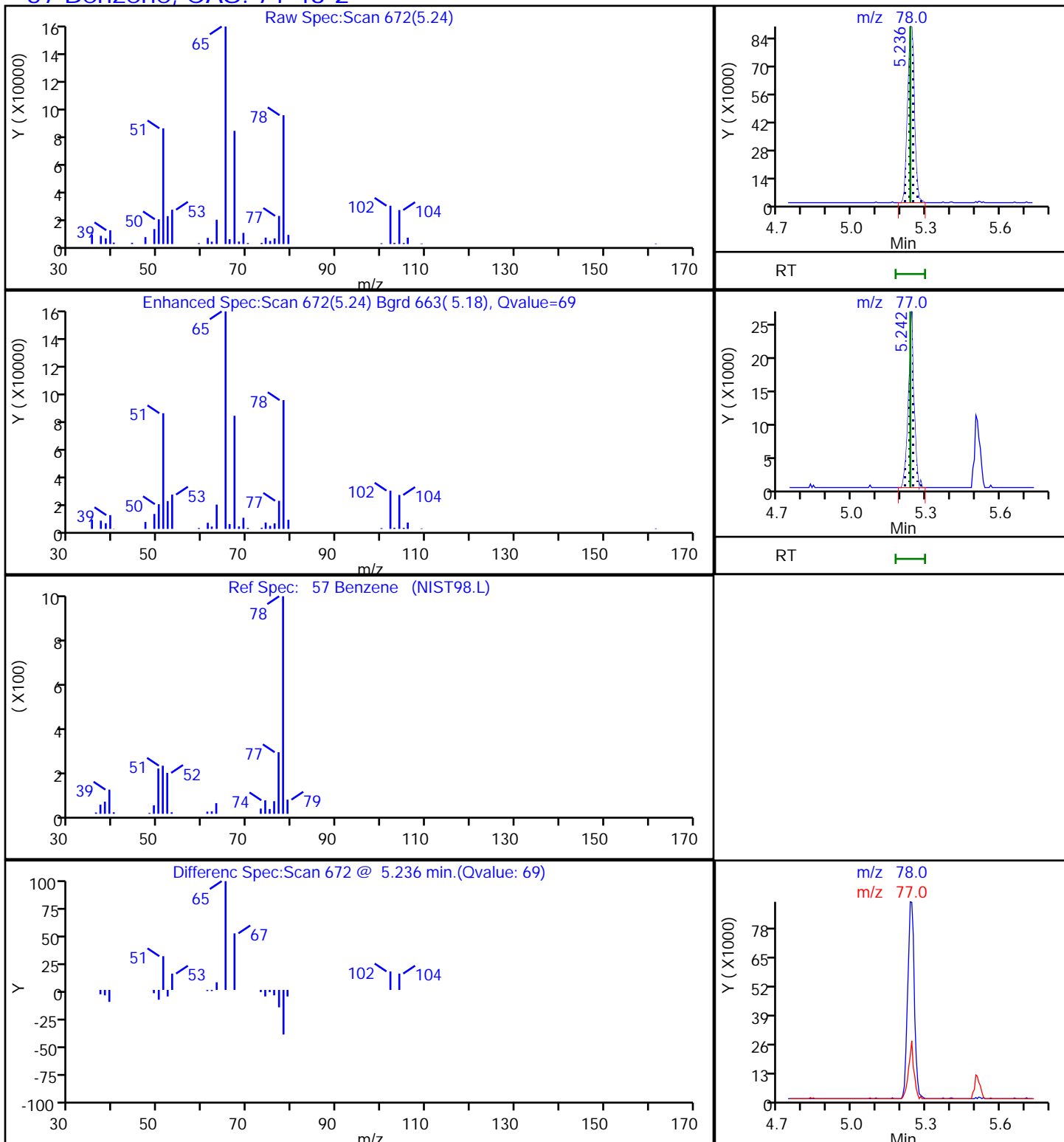
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

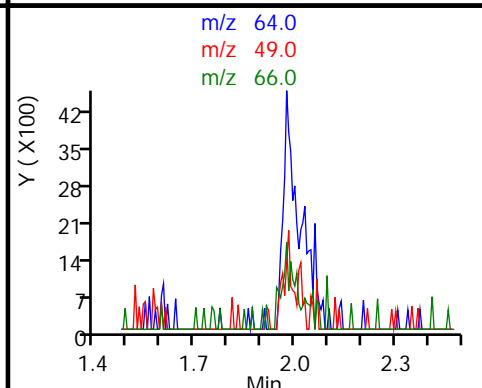
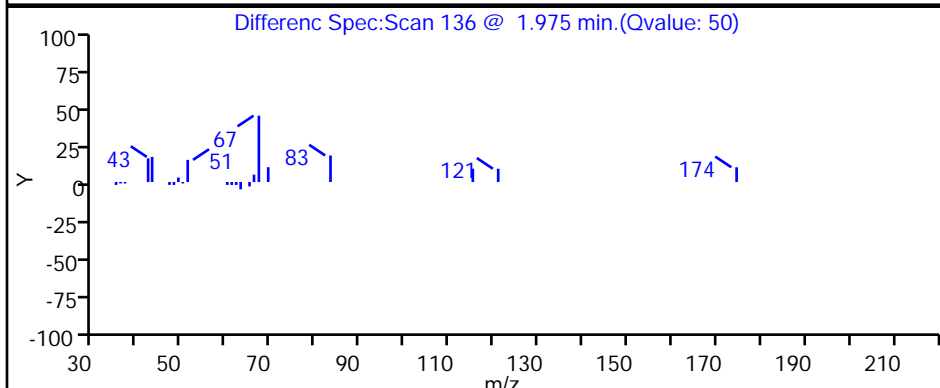
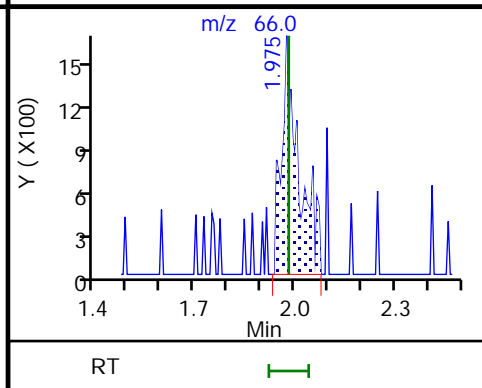
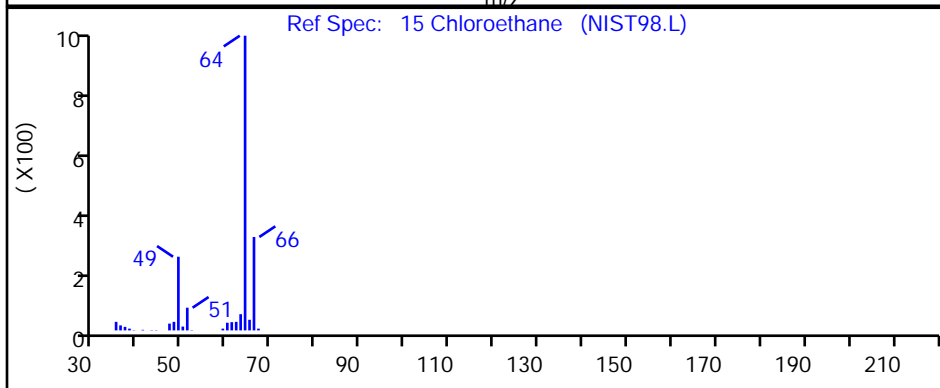
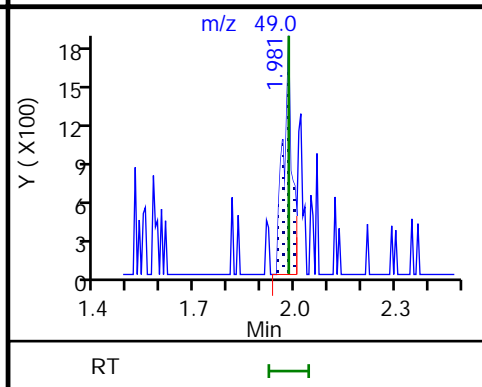
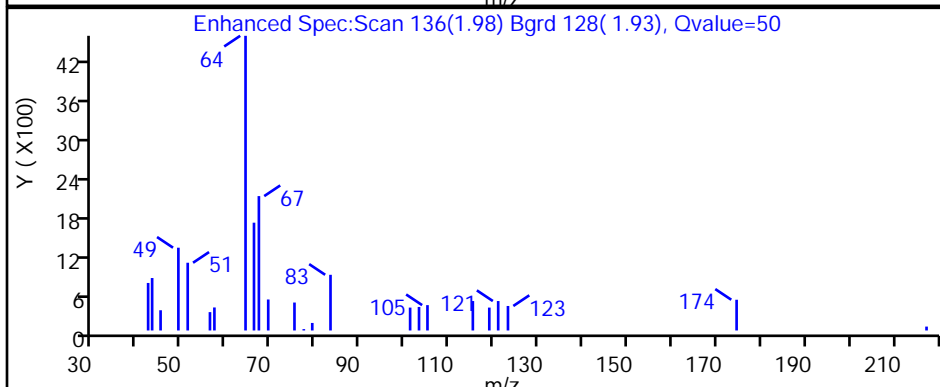
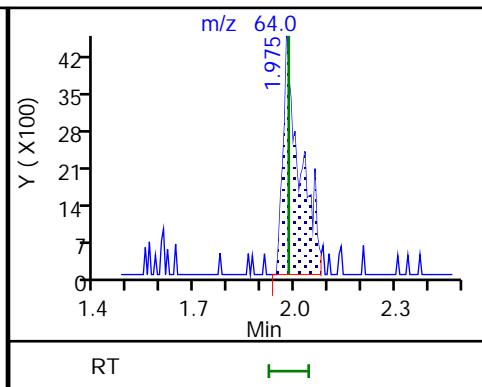
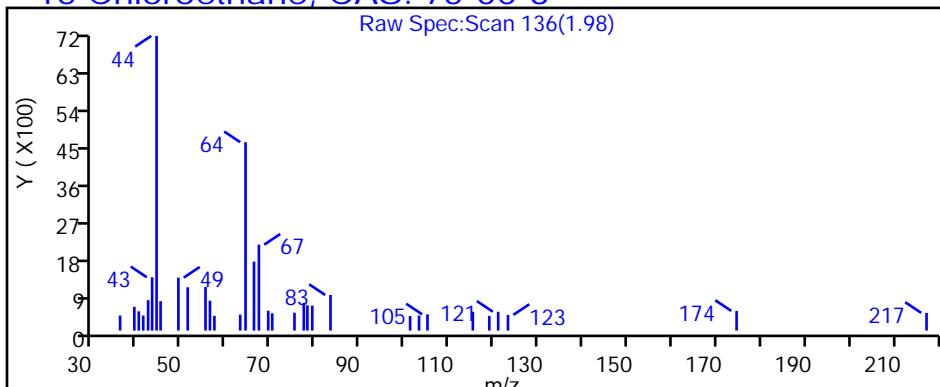
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

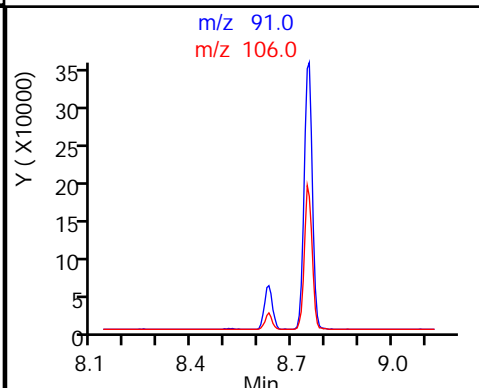
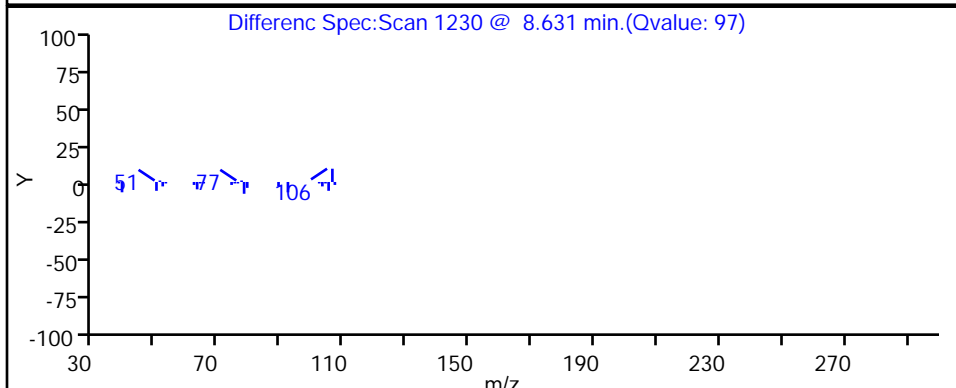
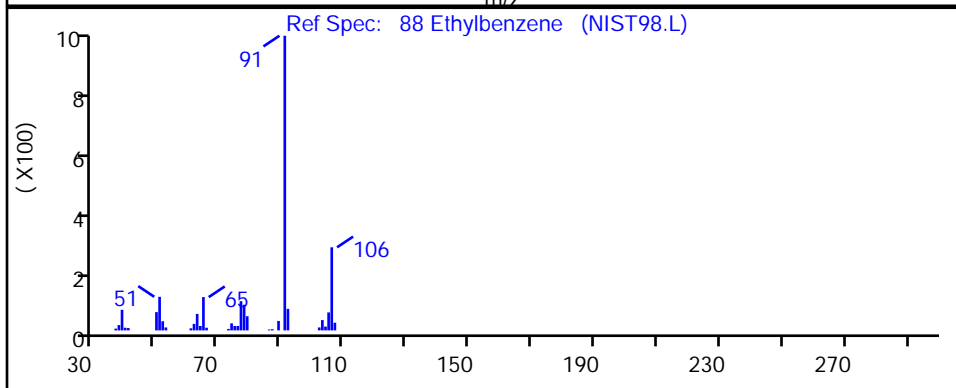
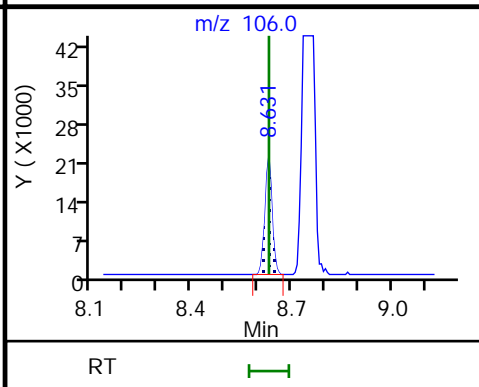
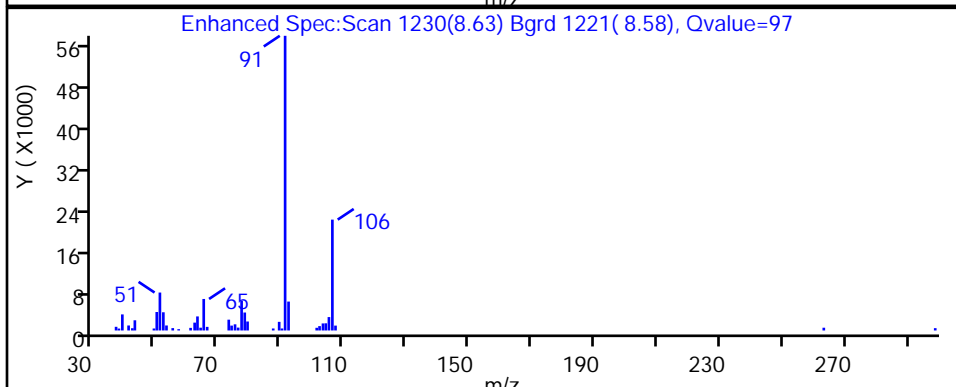
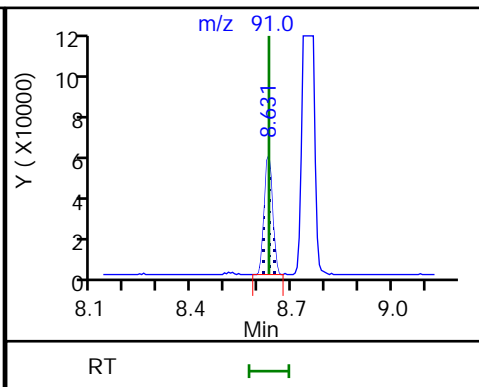
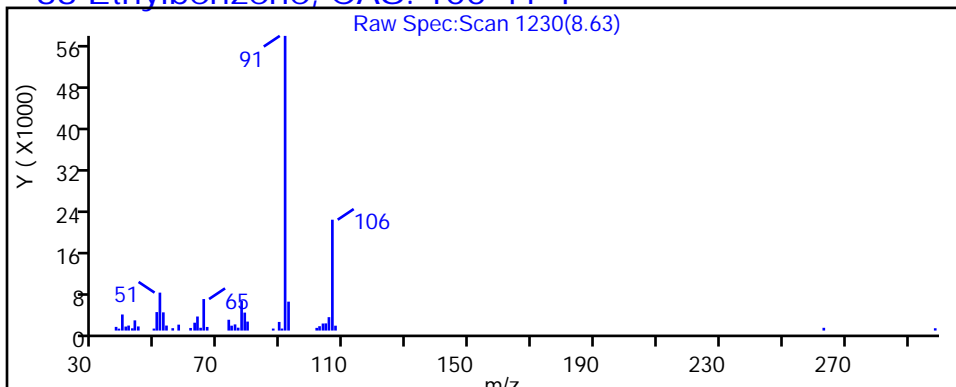
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

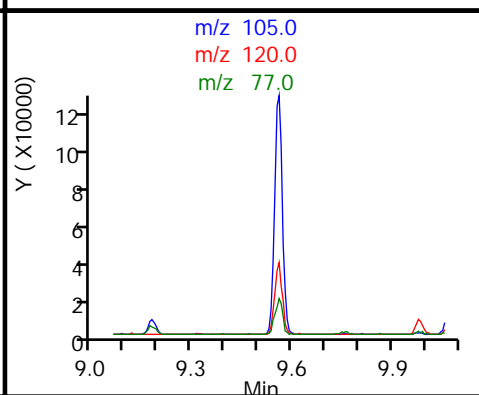
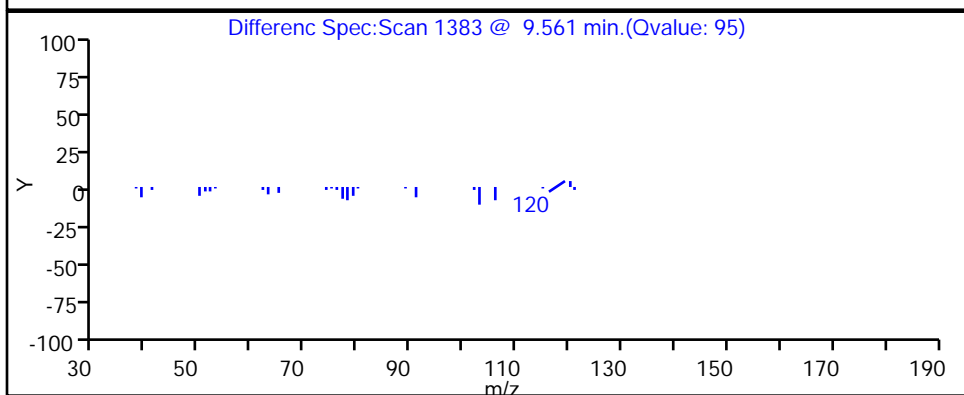
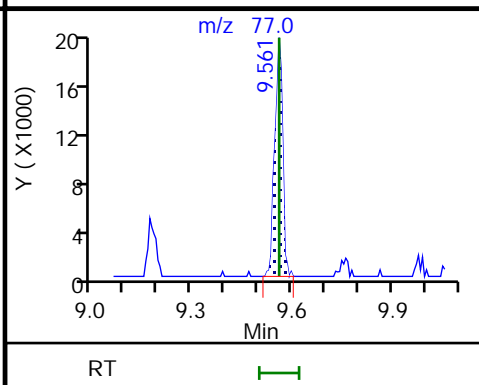
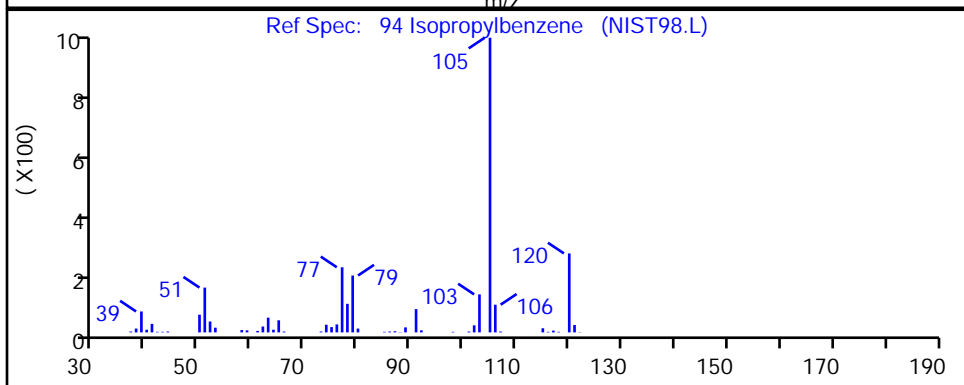
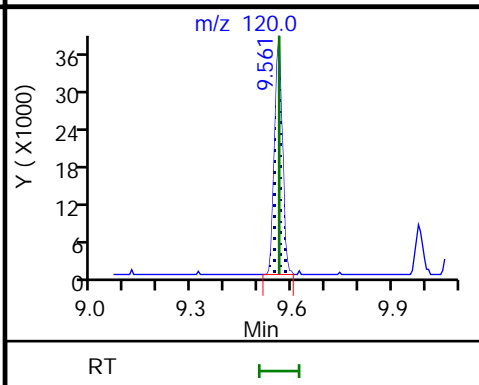
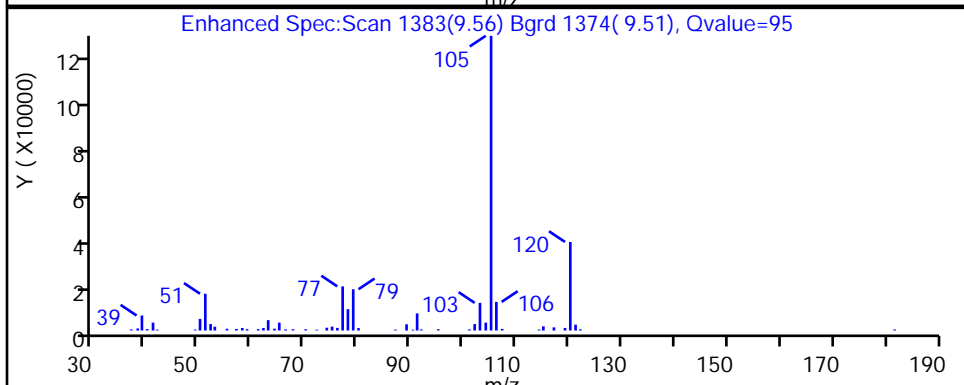
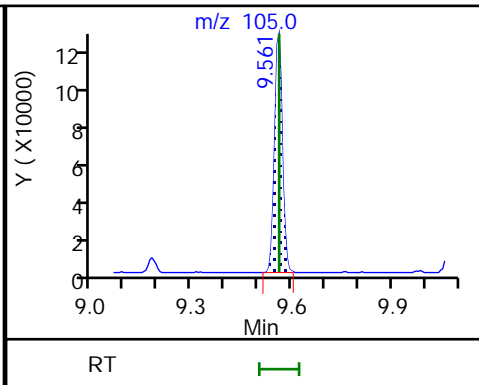
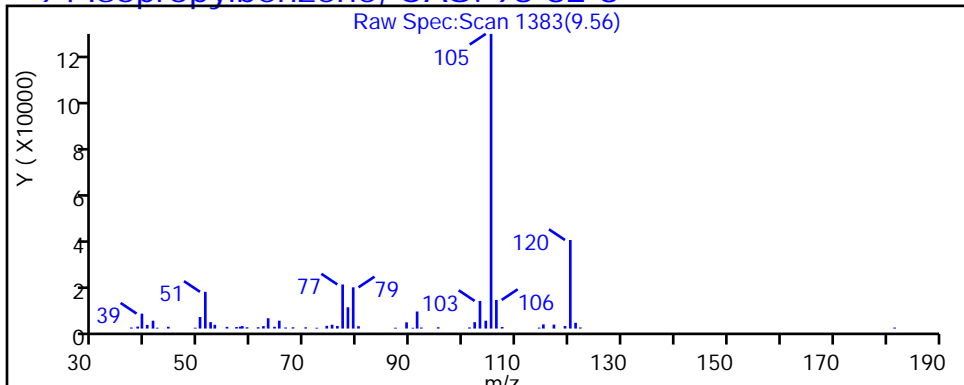
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

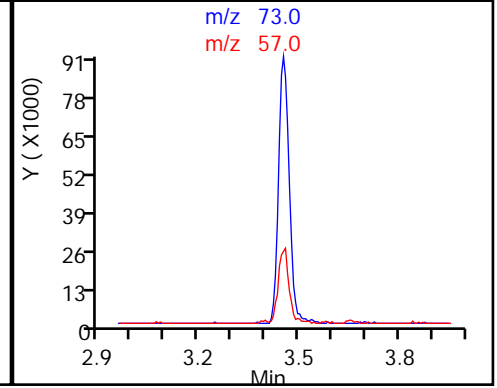
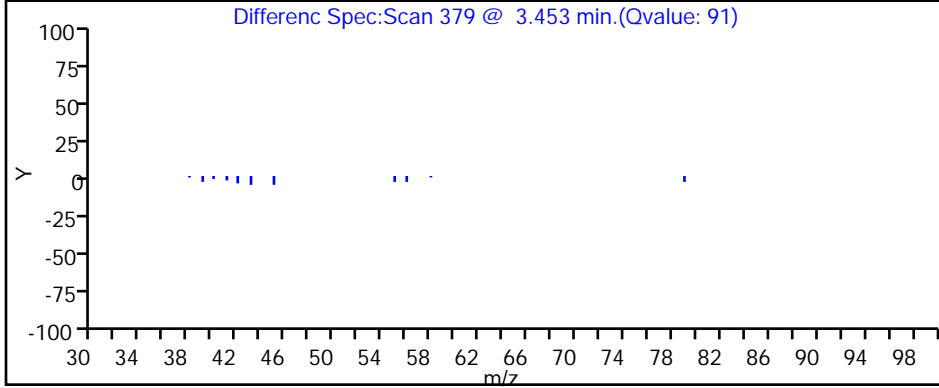
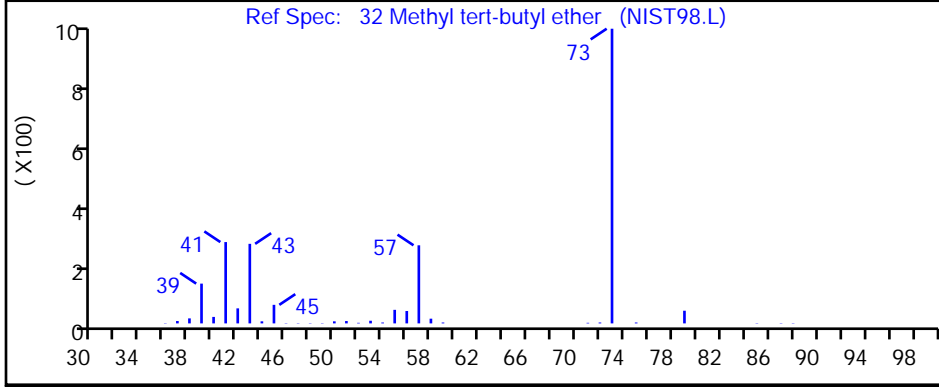
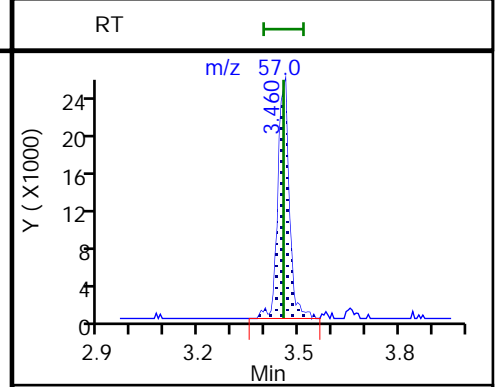
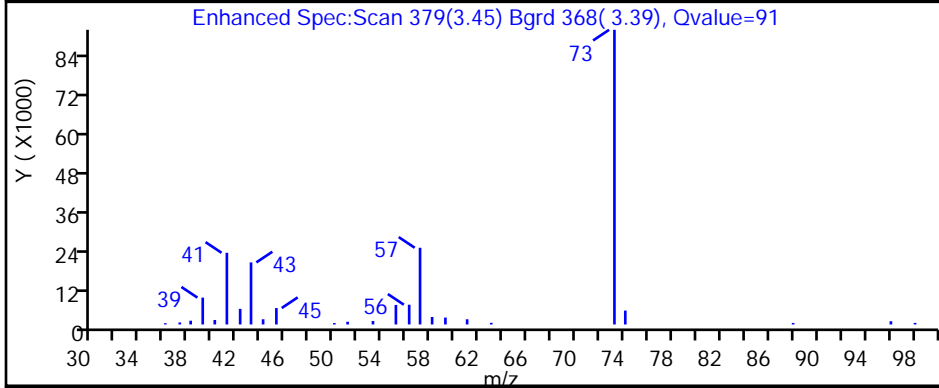
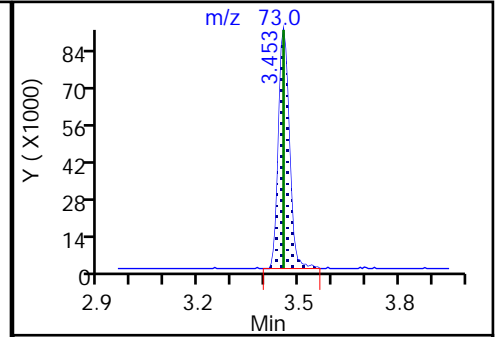
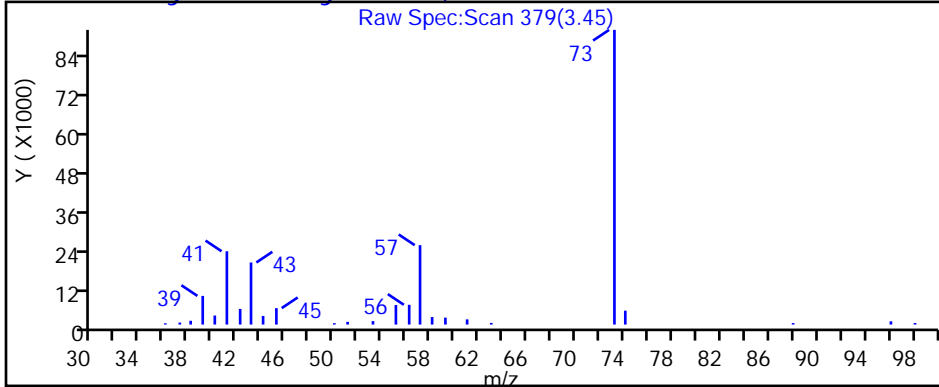
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

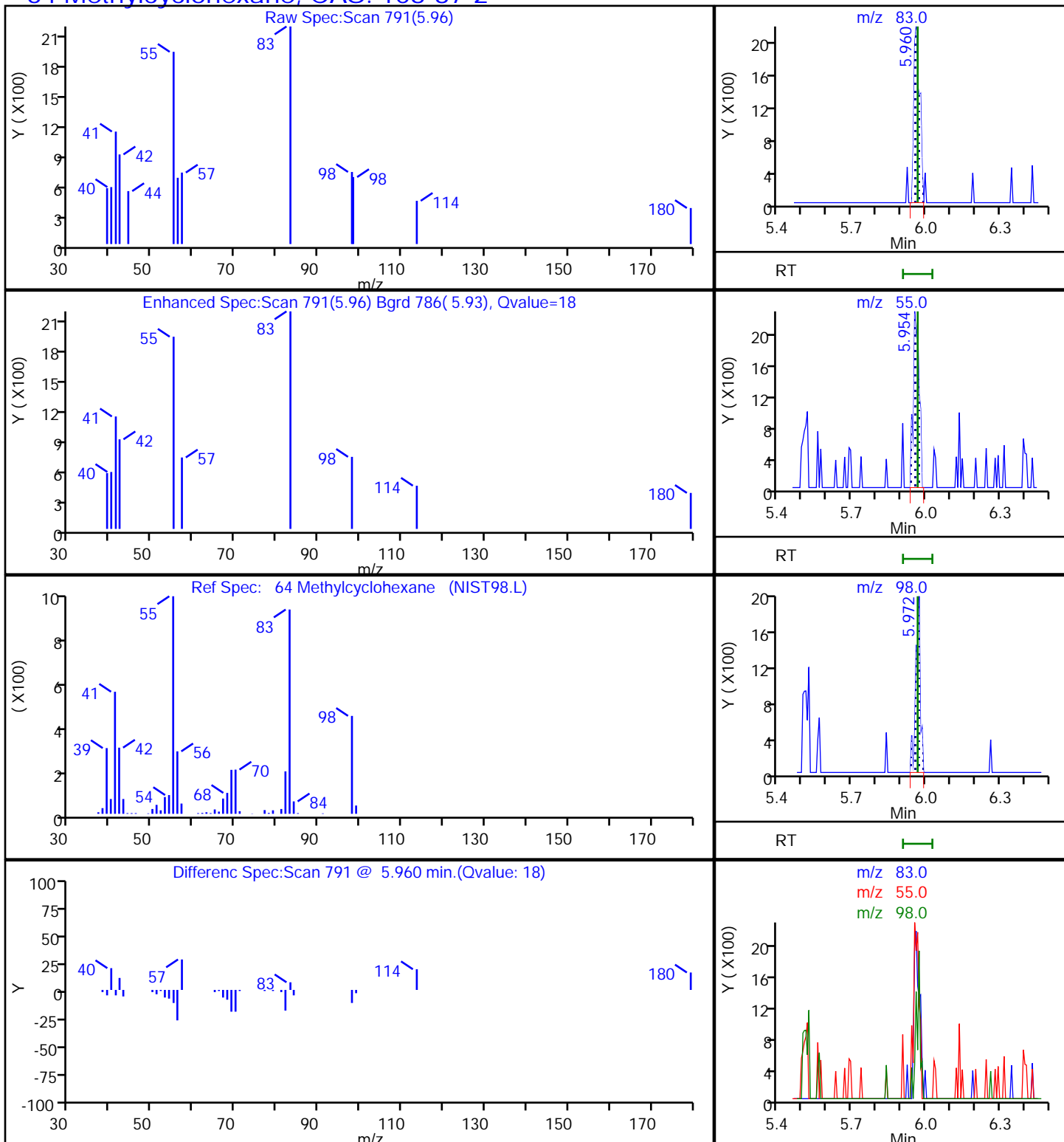
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

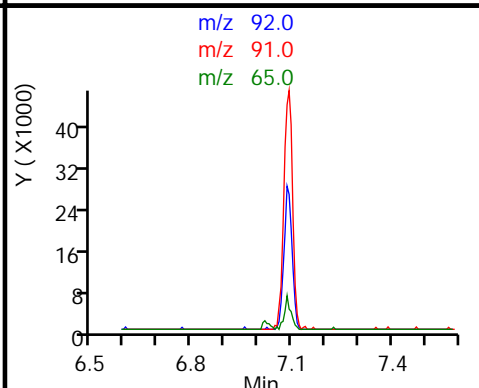
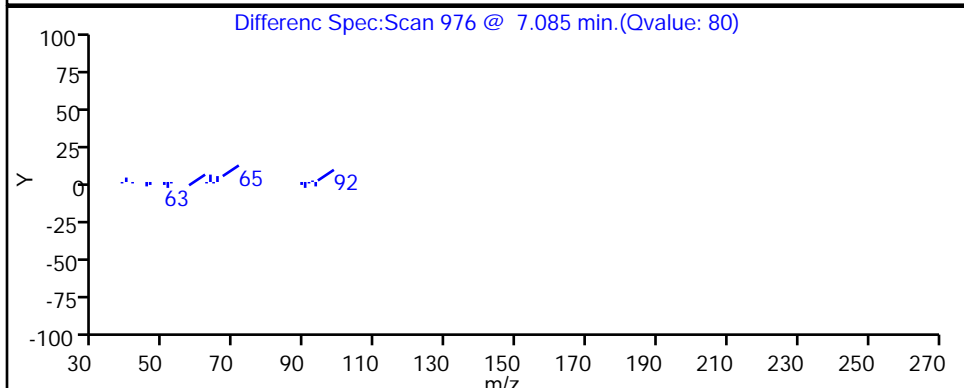
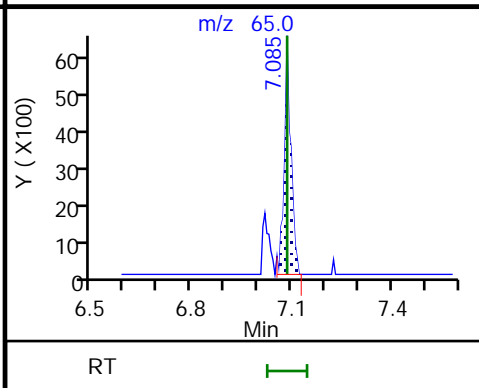
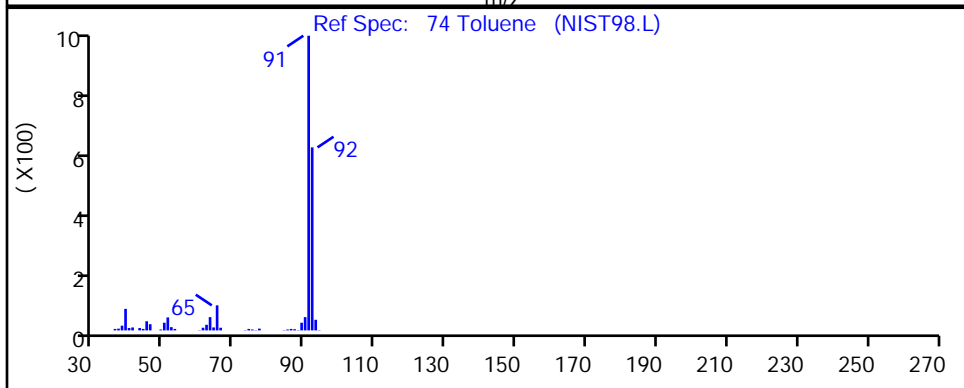
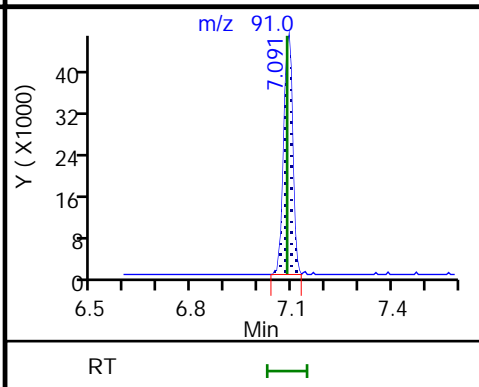
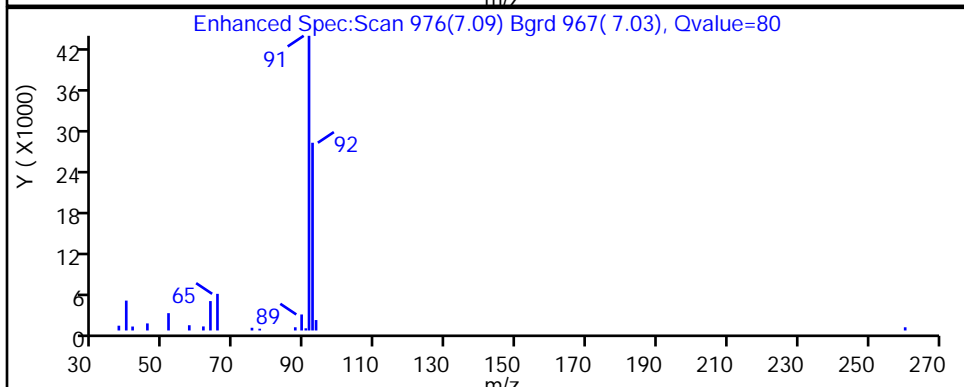
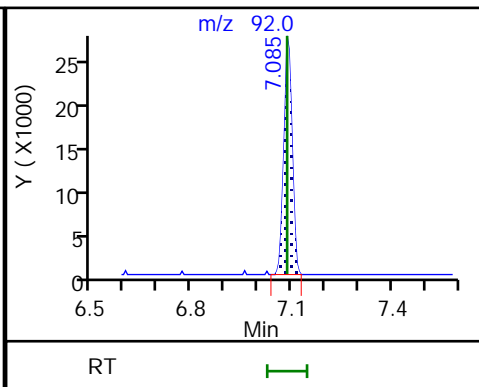
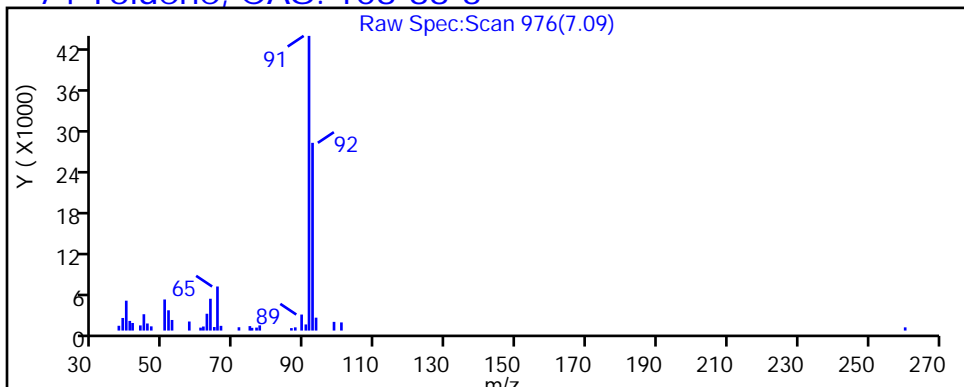
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

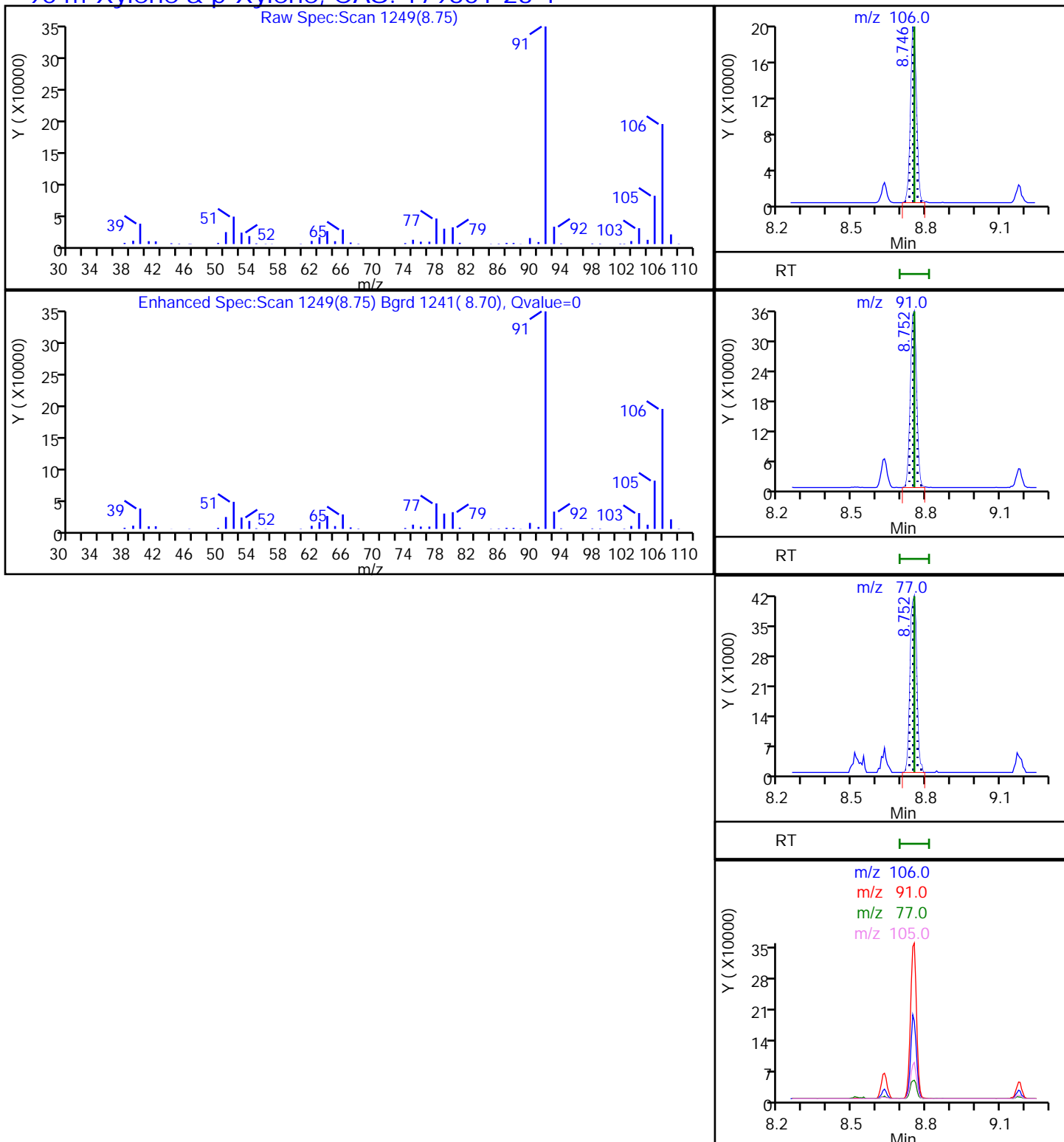
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

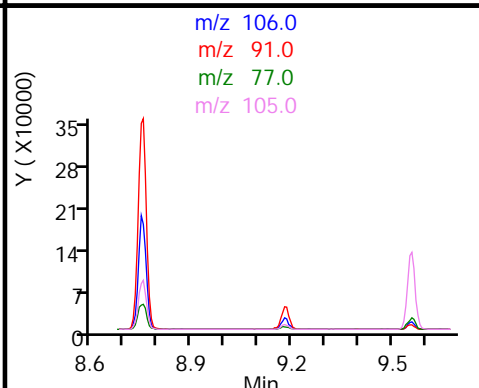
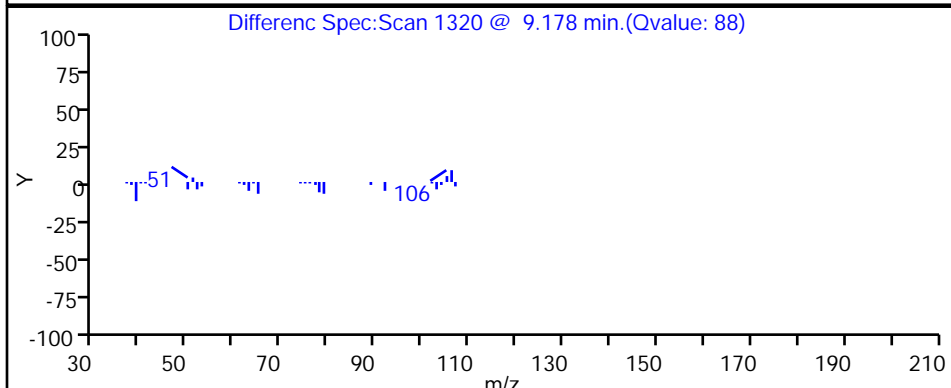
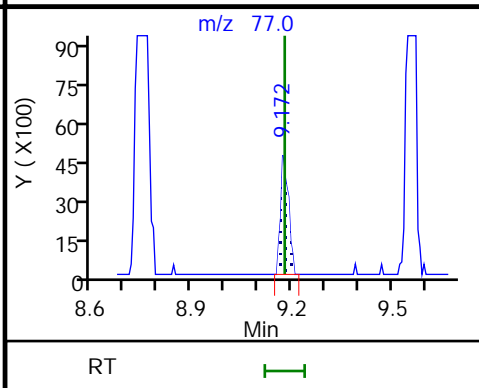
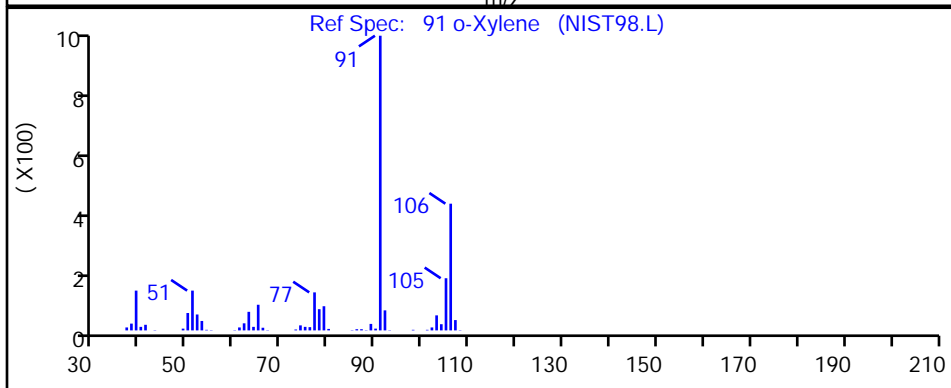
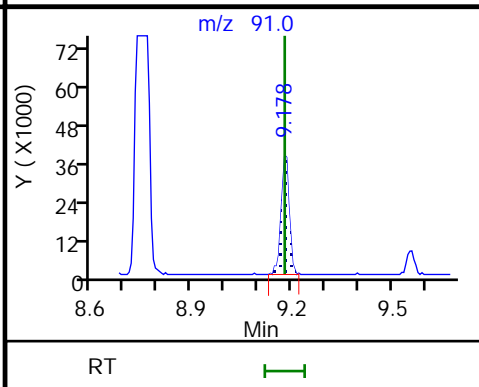
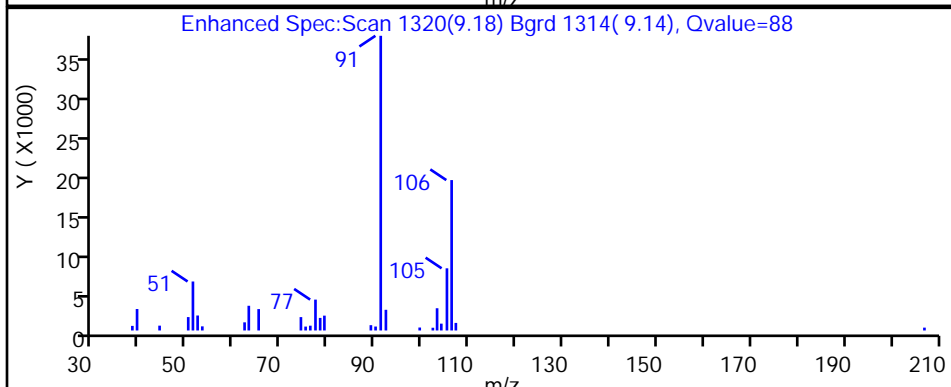
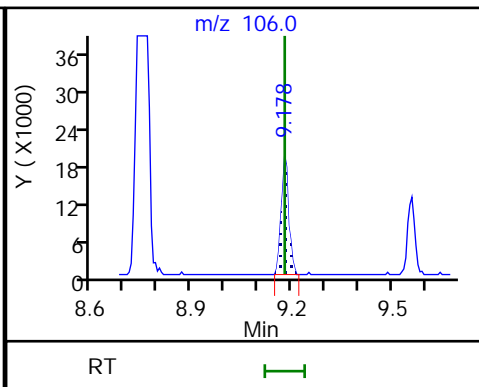
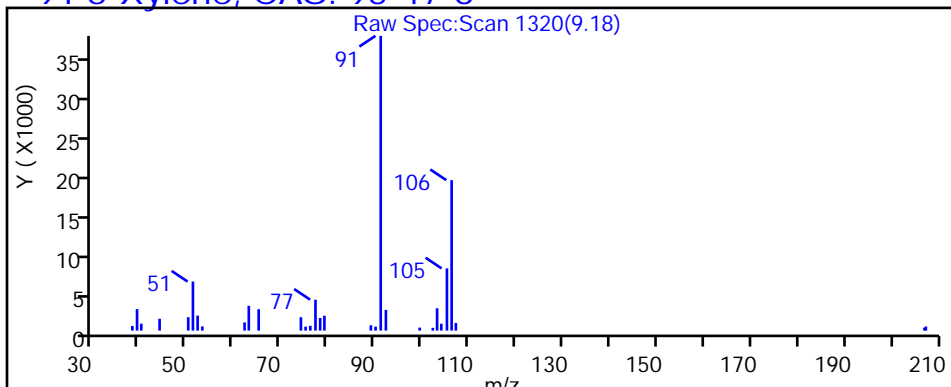
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

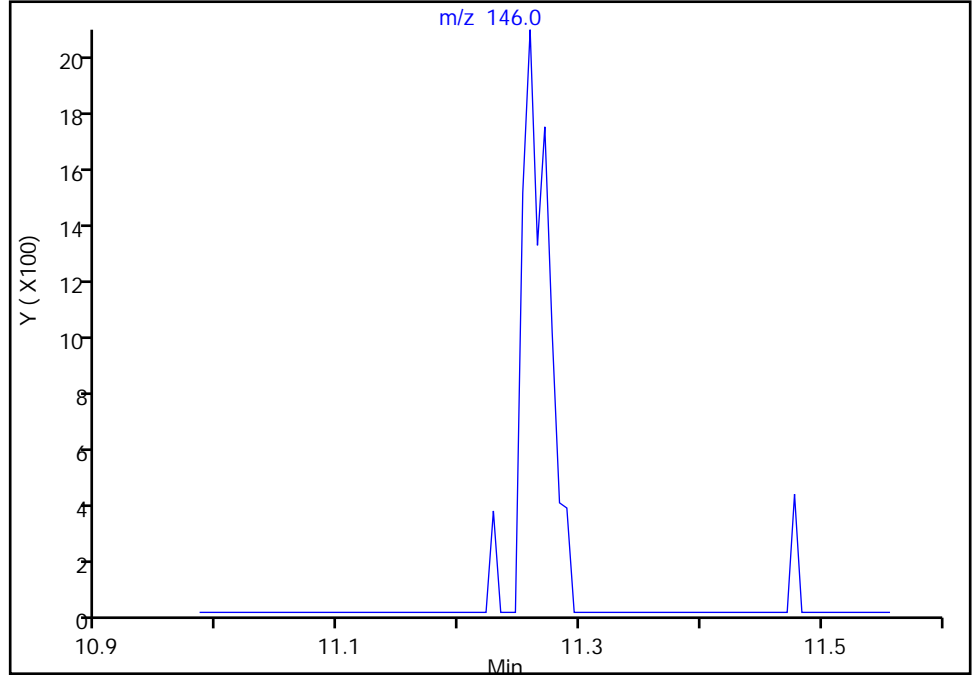
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1

Signal: 1

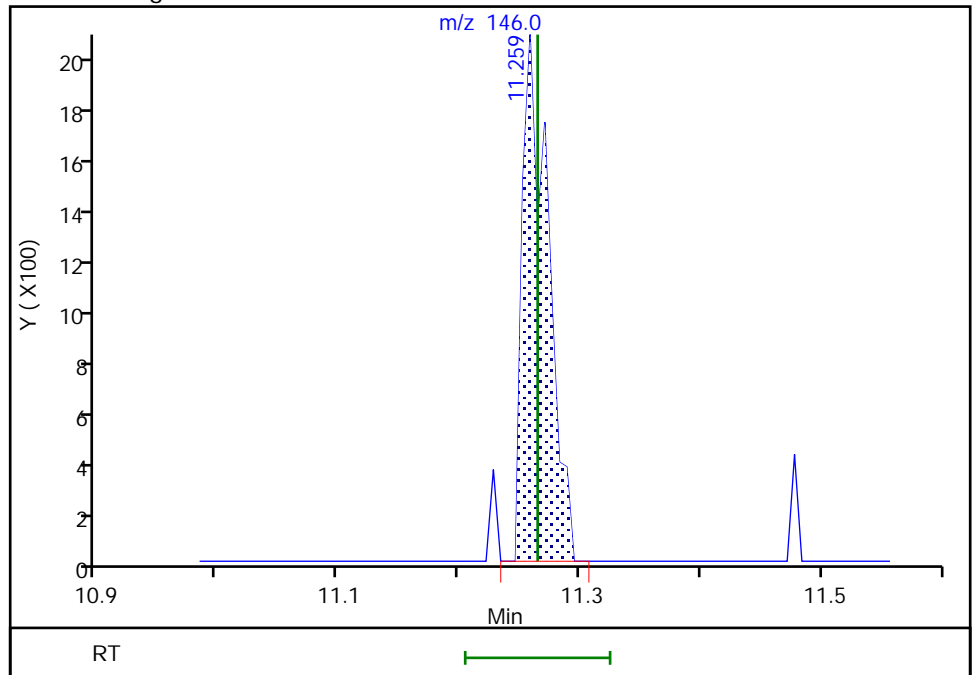
Not Detected
Expected RT: 11.26

Processing Integration Results



Manual Integration Results

RT: 11.26
Area: 2967
Amount: 0.142537
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:20:17
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

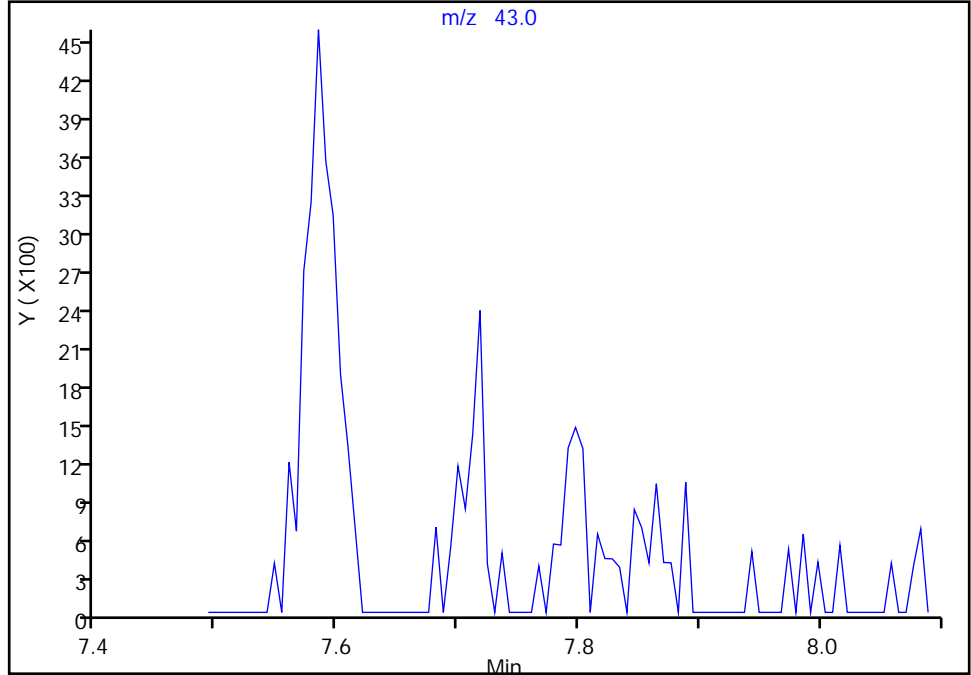
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

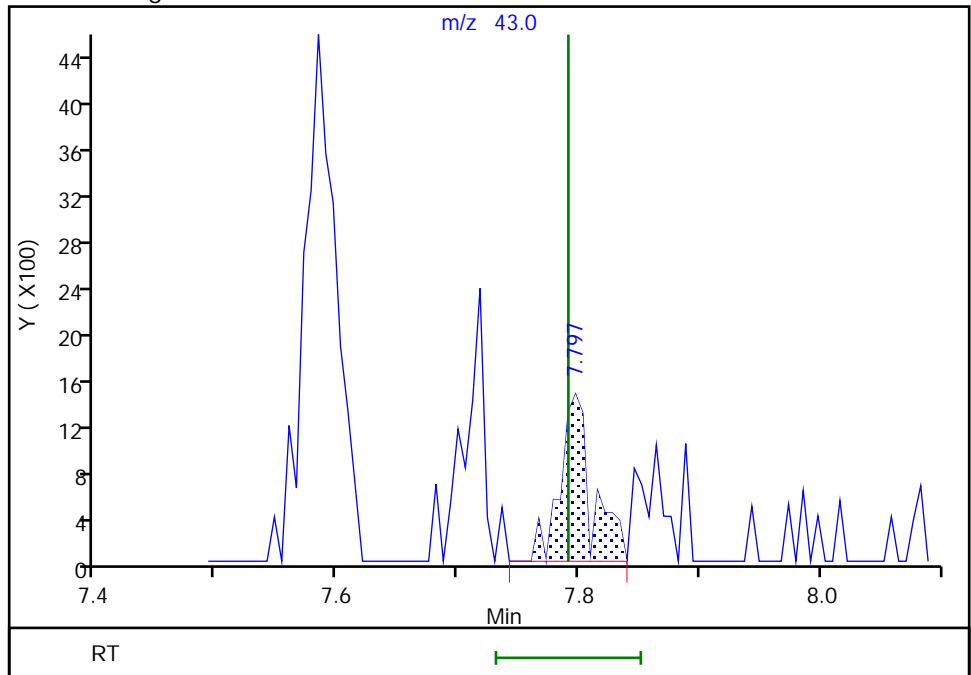
Not Detected
Expected RT: 7.79

Processing Integration Results



Manual Integration Results

RT: 7.80
Area: 2652
Amount: 0.303518
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:20:02
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

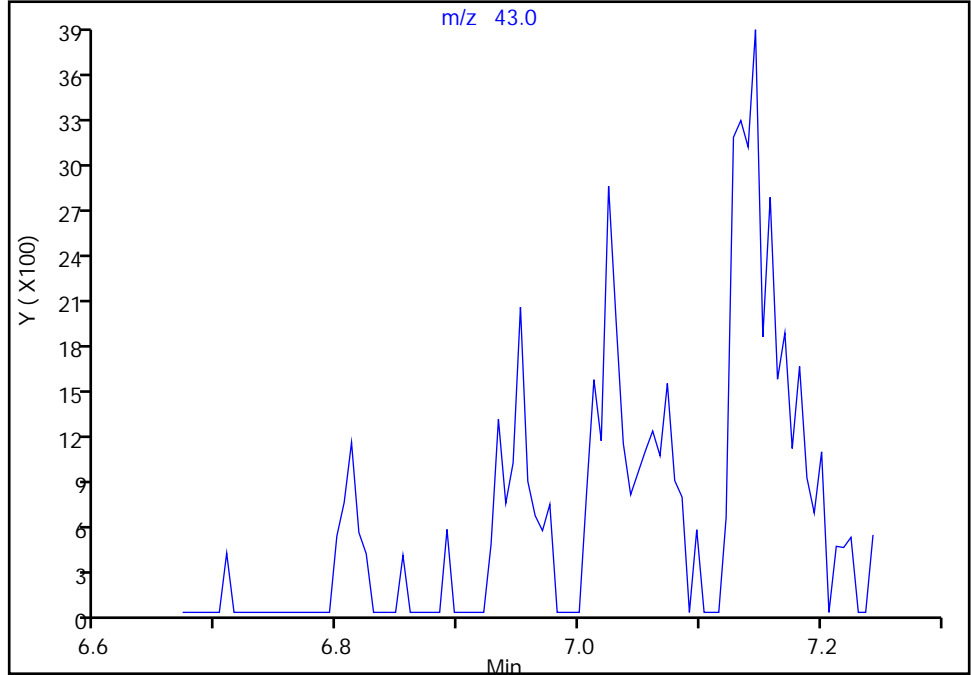
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

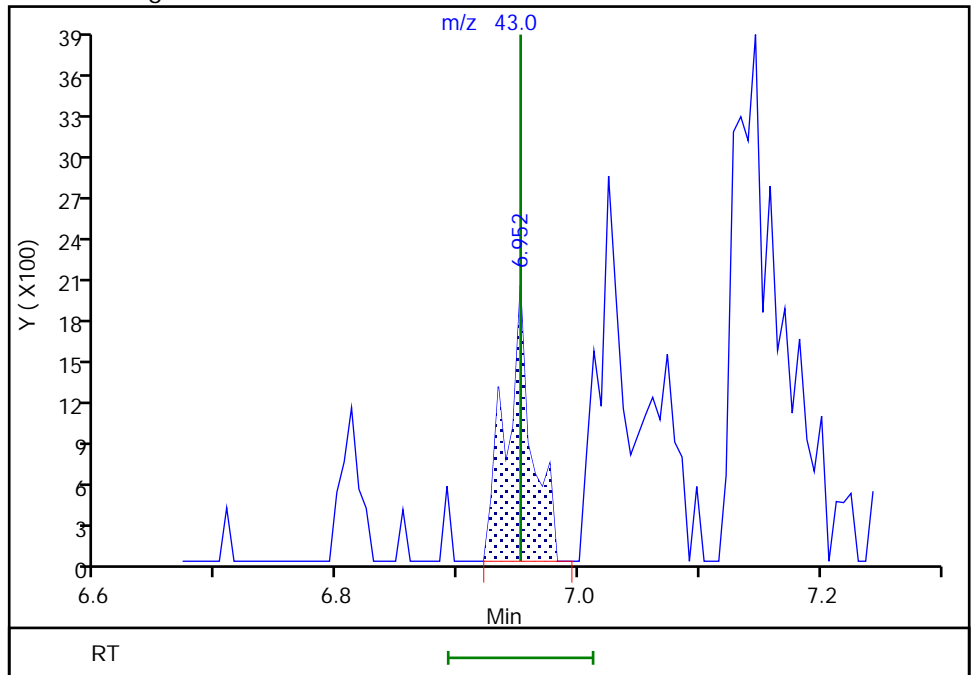
Not Detected
Expected RT: 6.95

Processing Integration Results



Manual Integration Results

RT: 6.95
Area: 2987
Amount: 0.251635
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:19:27
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

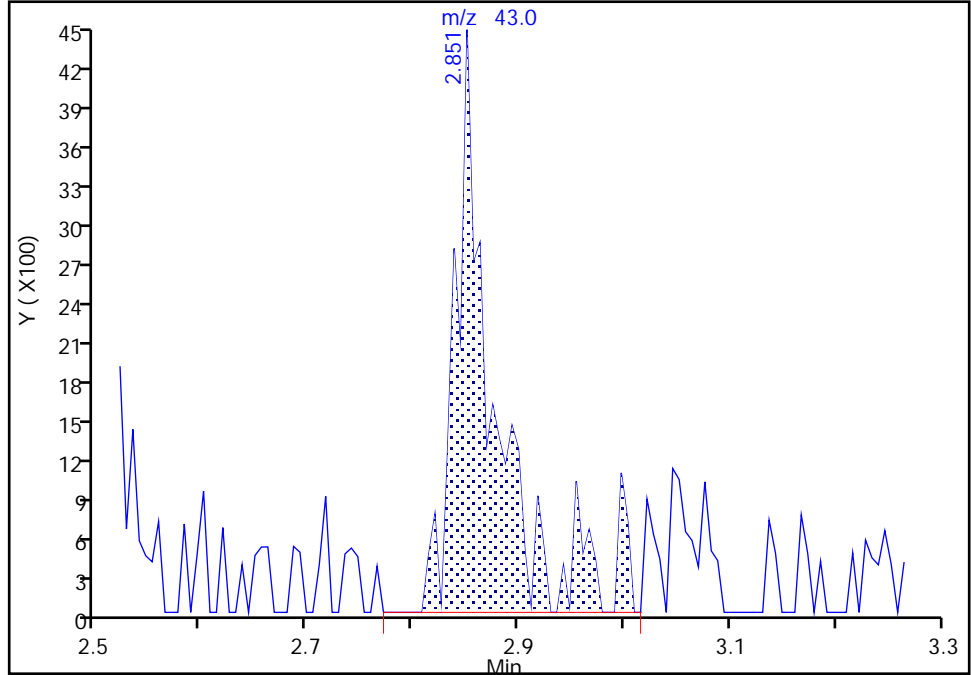
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

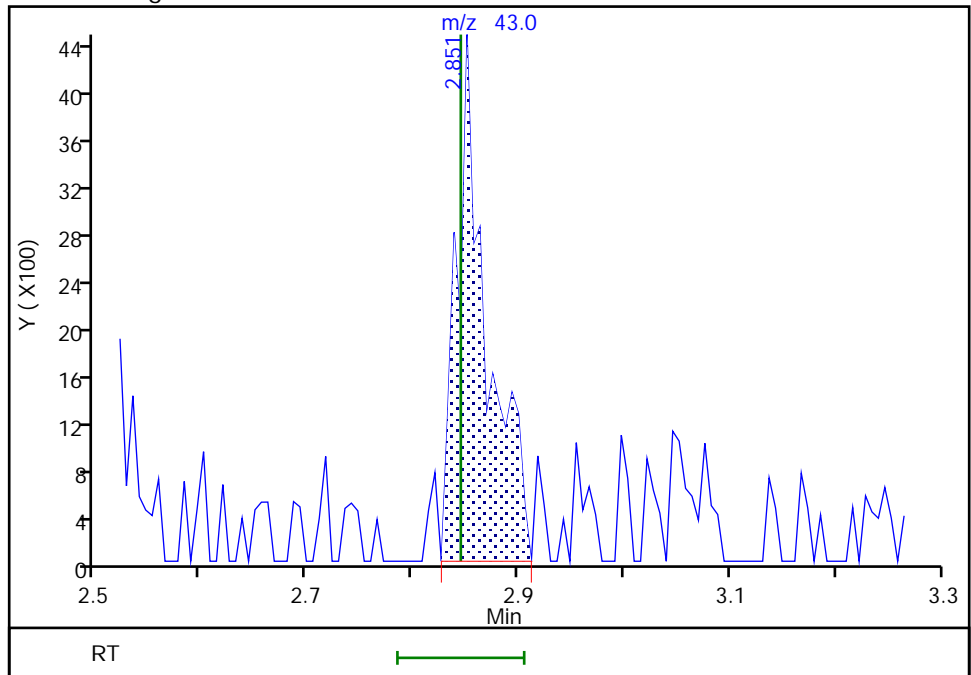
RT: 2.85
Area: 11612
Amount: 3.236530
Amount Units: ug/L

Processing Integration Results



RT: 2.85
Area: 8987
Amount: 2.504883
Amount Units: ug/L

Manual Integration Results



Reviewer: baroner, 23-Jun-2018 14:19:02
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

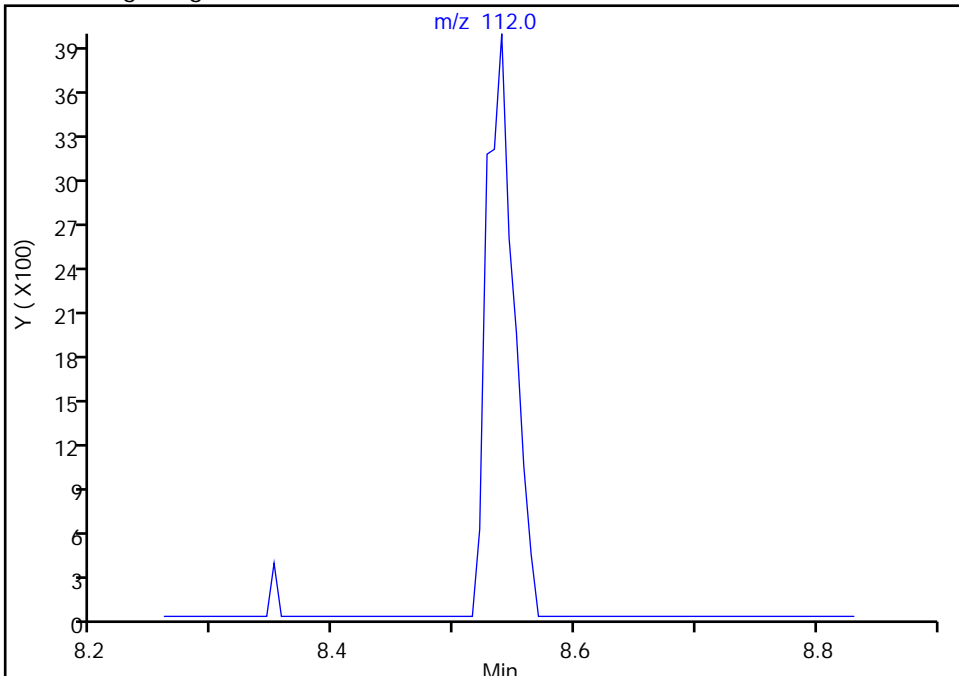
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

87 Chlorobenzene, CAS: 108-90-7

Signal: 1

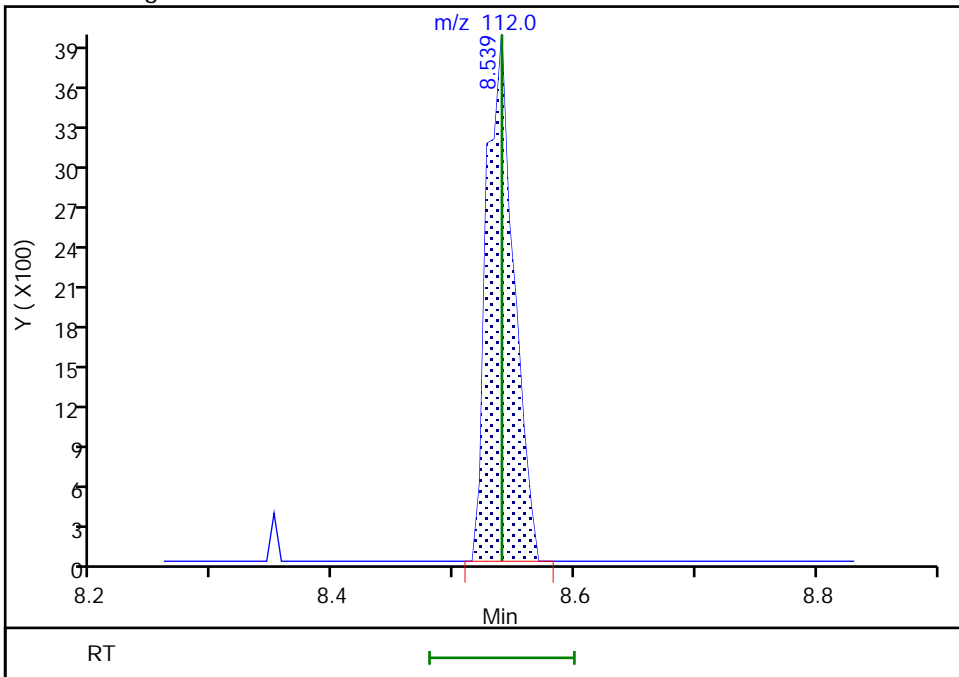
Not Detected
Expected RT: 8.54

Processing Integration Results



Manual Integration Results

RT: 8.54
Area: 6094
Amount: 0.224994
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:20:09
Audit Action: Assigned Compound ID

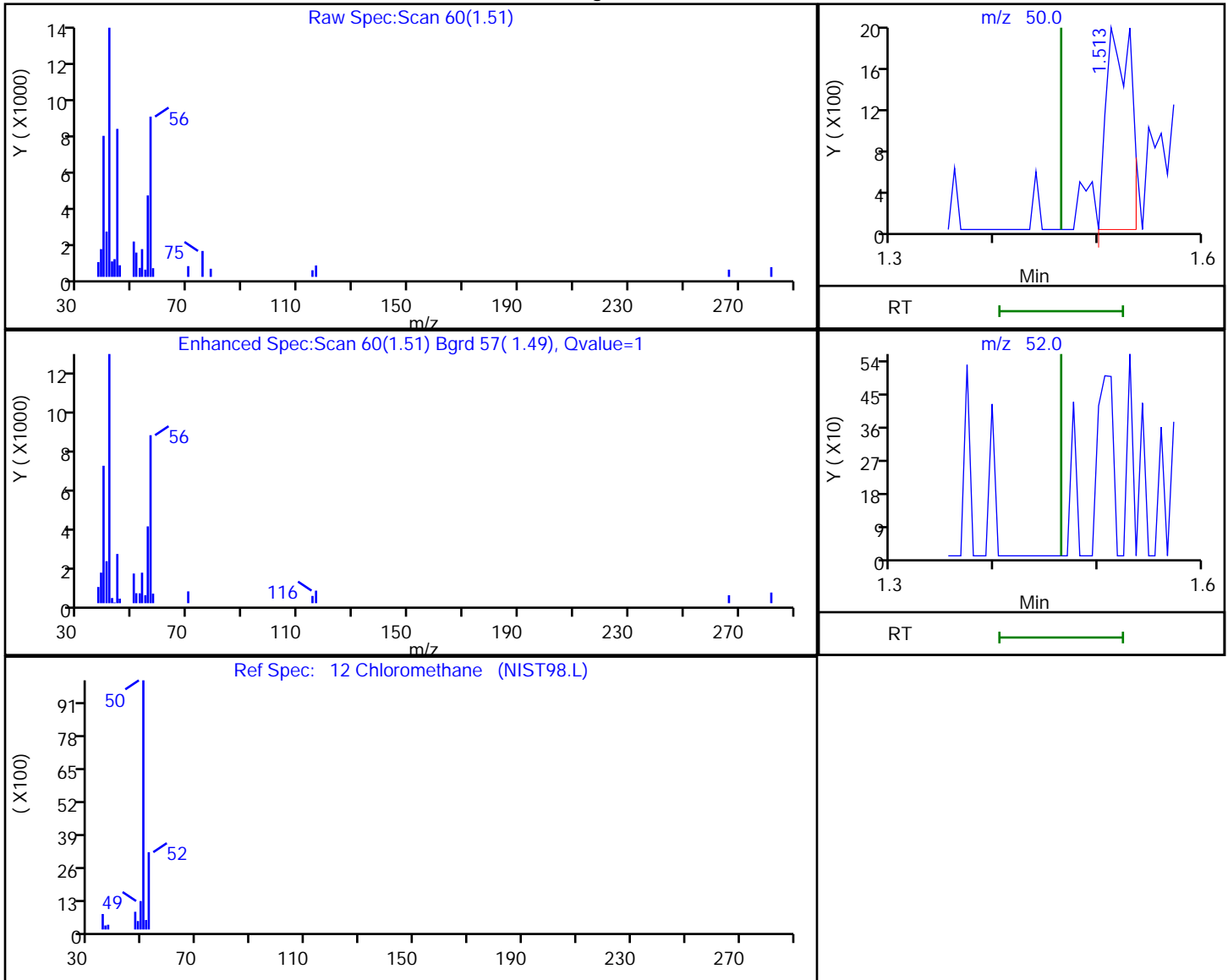
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.51	50.00	3204	0.224589
1.46	52.00	0	

Reviewer: baroner, 23-Jun-2018 14:18:40

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

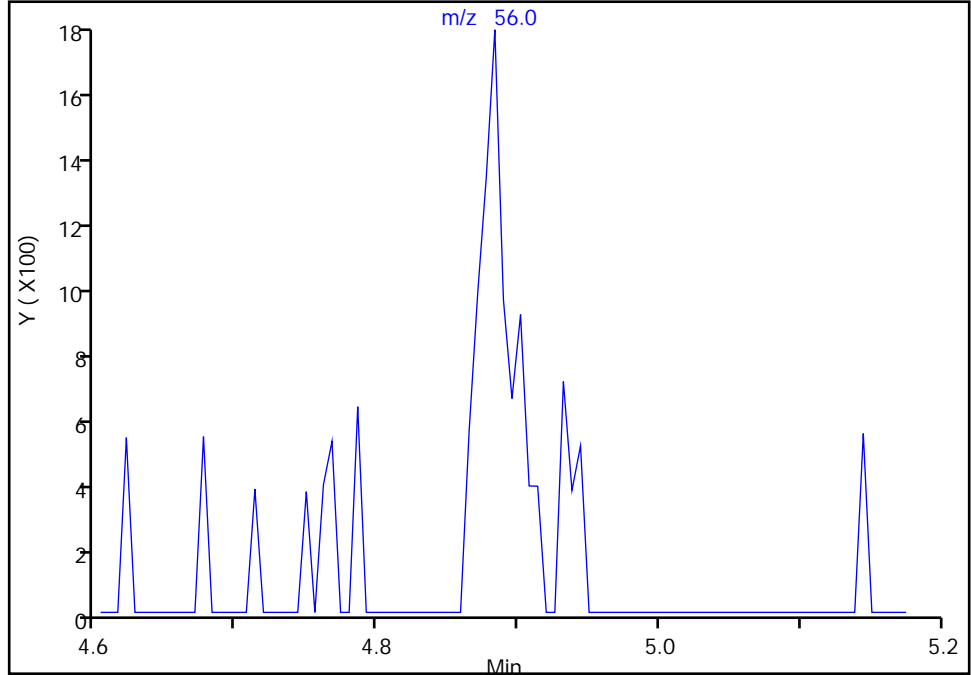
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

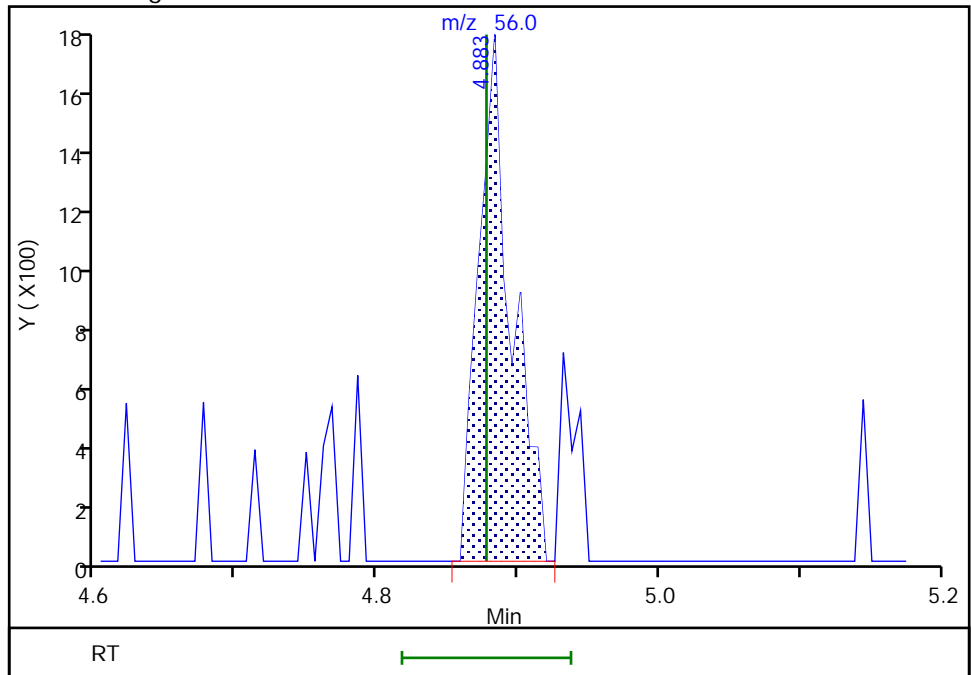
Not Detected
Expected RT: 4.88

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 2787
Amount: 0.160454
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:19:11
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

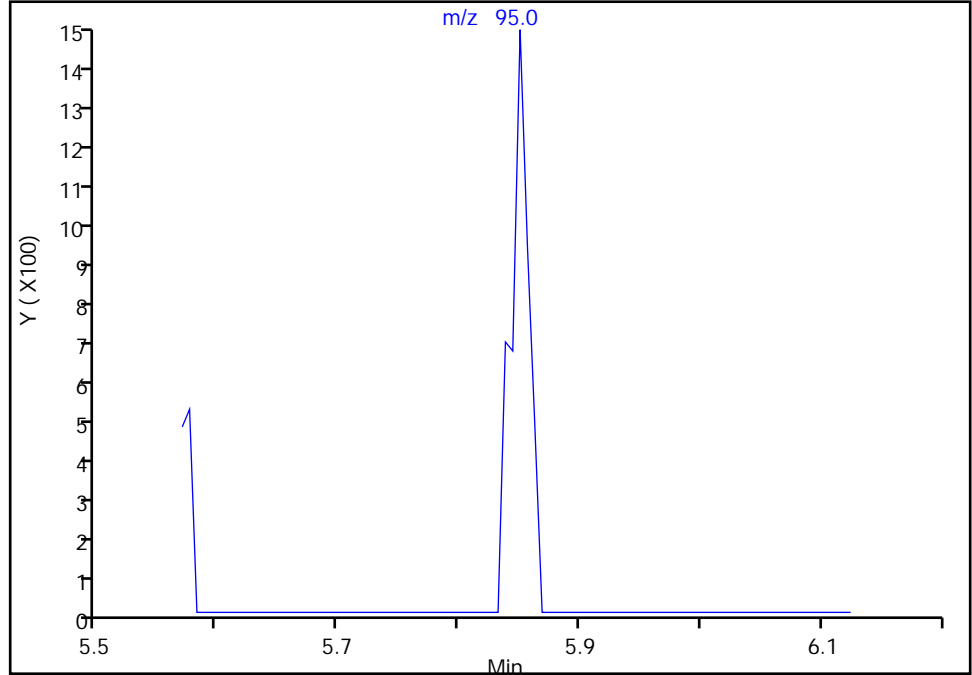
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D
Injection Date: 23-Jun-2018 04:32:30 Instrument ID: HP5973S
Lims ID: 480-137605-F-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Operator ID: kn ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

62 Trichloroethene, CAS: 79-01-6

Signal: 1

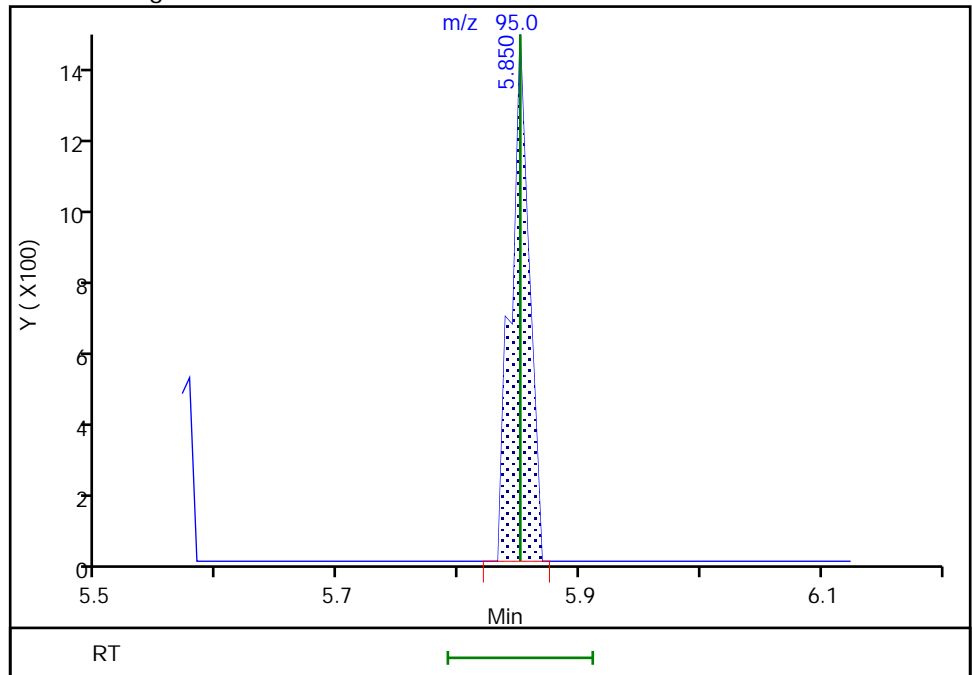
Not Detected
Expected RT: 5.85

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1483
Amount: 0.145305
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:19:19
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

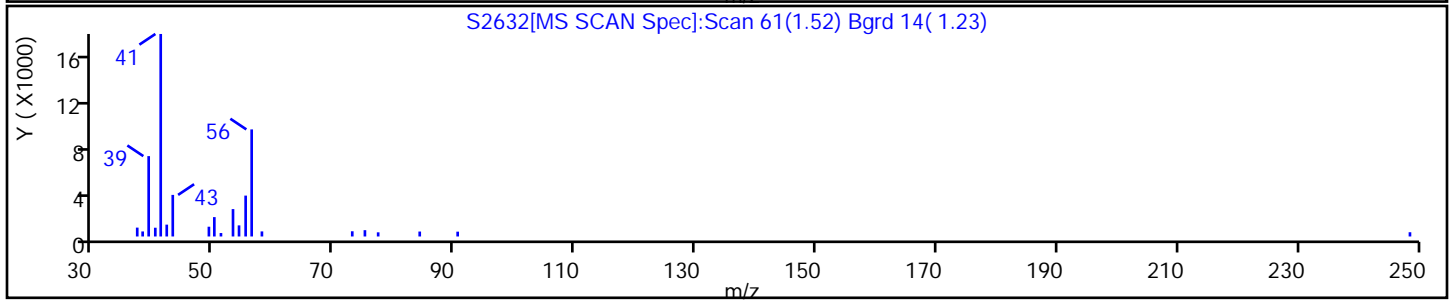
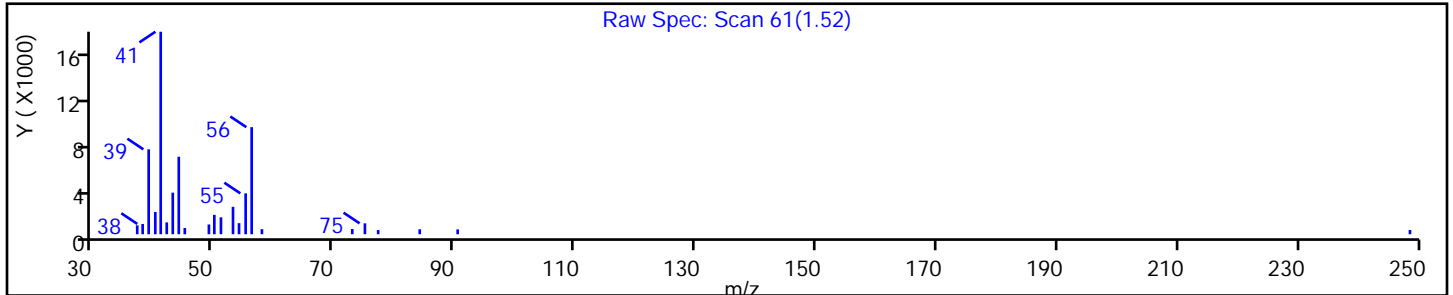
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

No Library Matches Found above the Threshold: 85



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

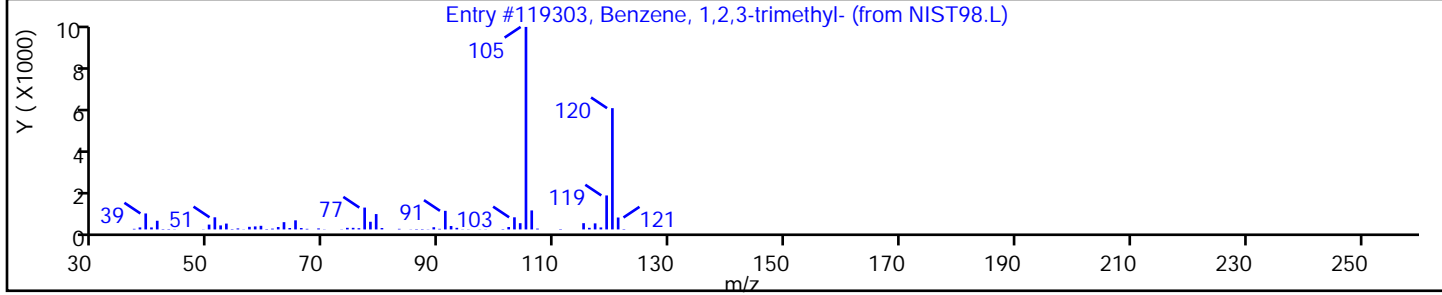
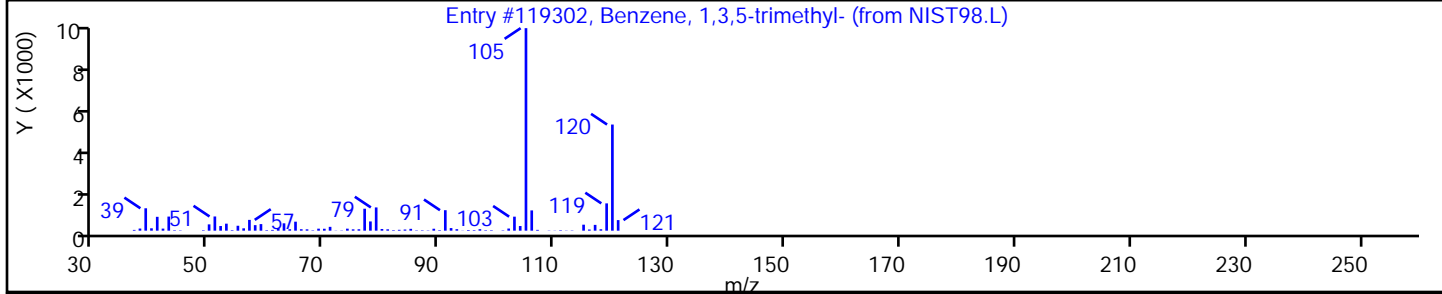
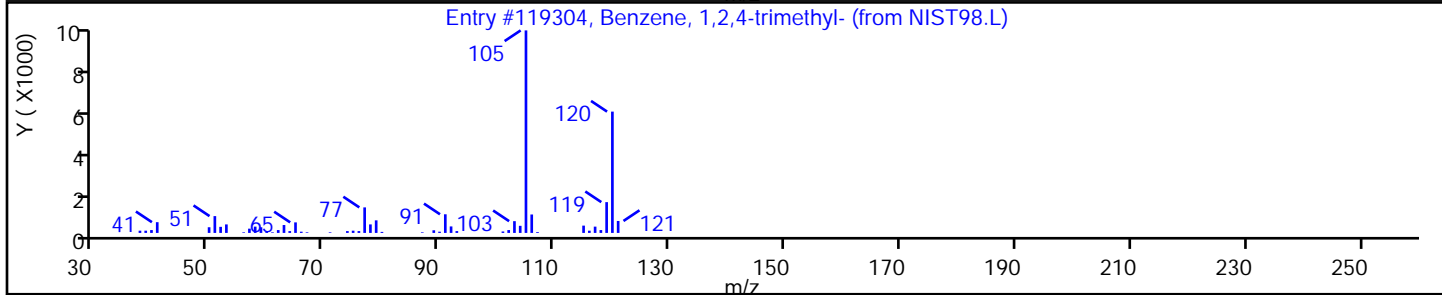
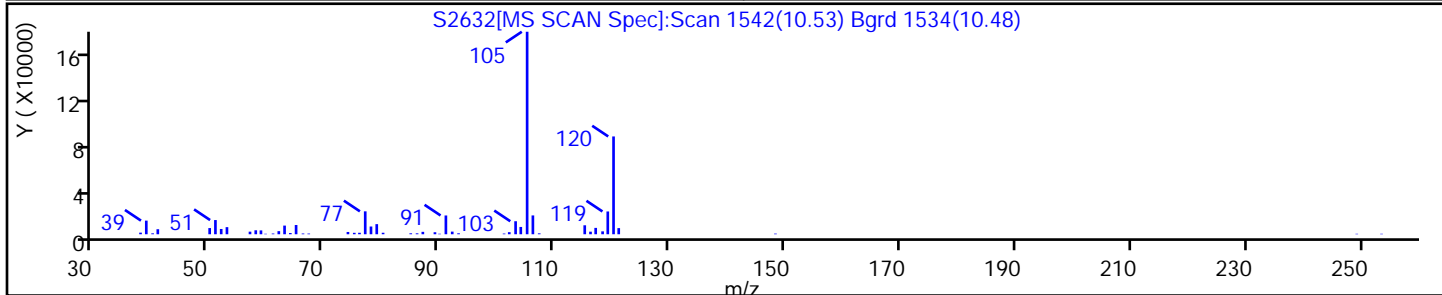
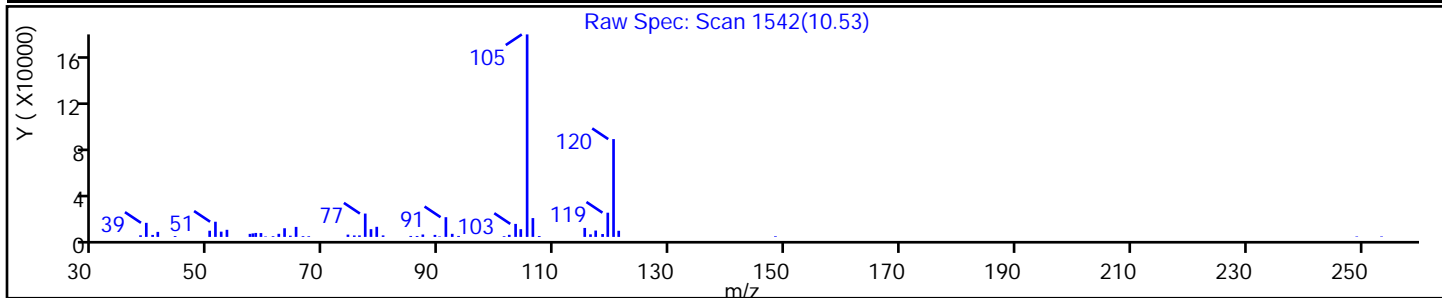
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	94
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119302	C9H12	120	94
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2632.D

Injection Date: 23-Jun-2018 04:32:30

Instrument ID: HP5973S

Lims ID: 480-137605-F-1

Lab Sample ID: 480-137605-1

Client ID: ML-2-D

Operator ID: kn

ALS Bottle#: 19 Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

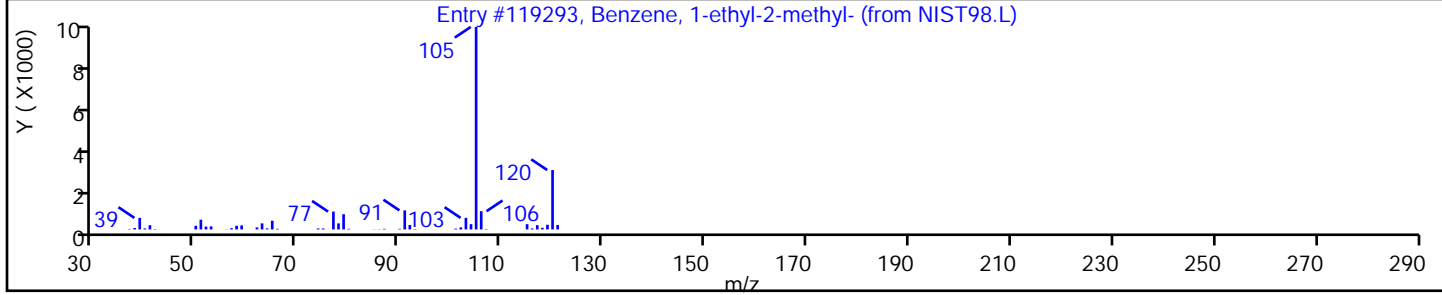
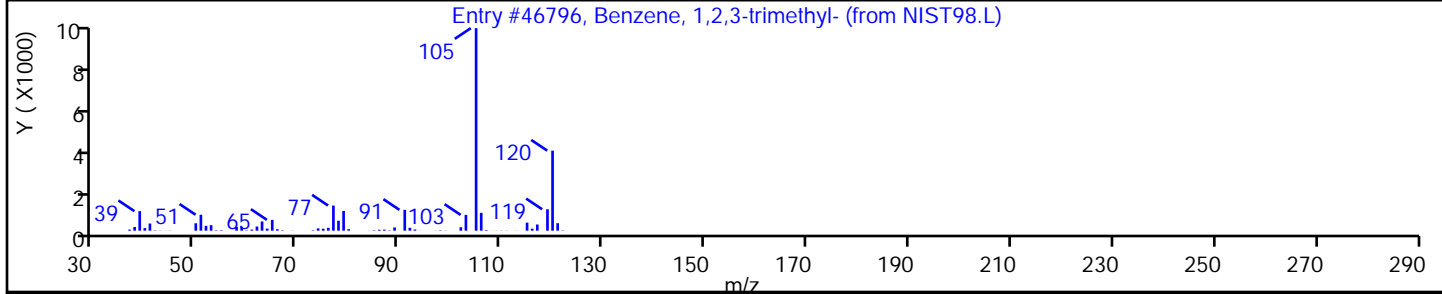
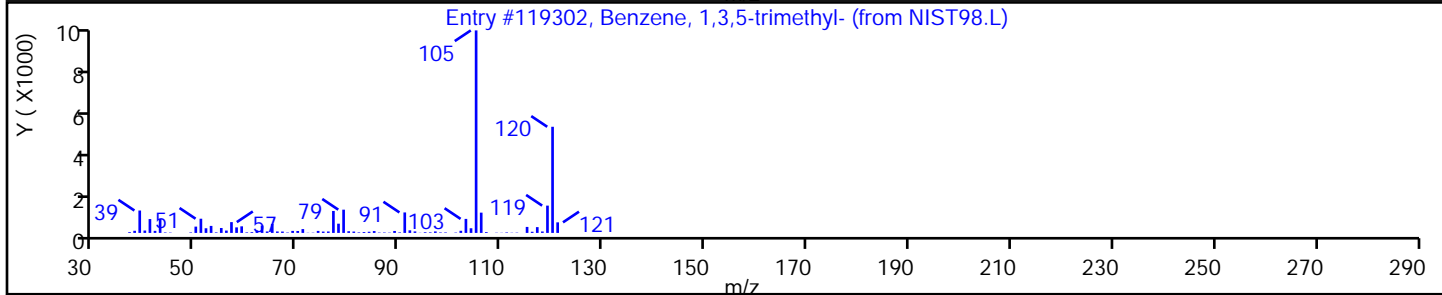
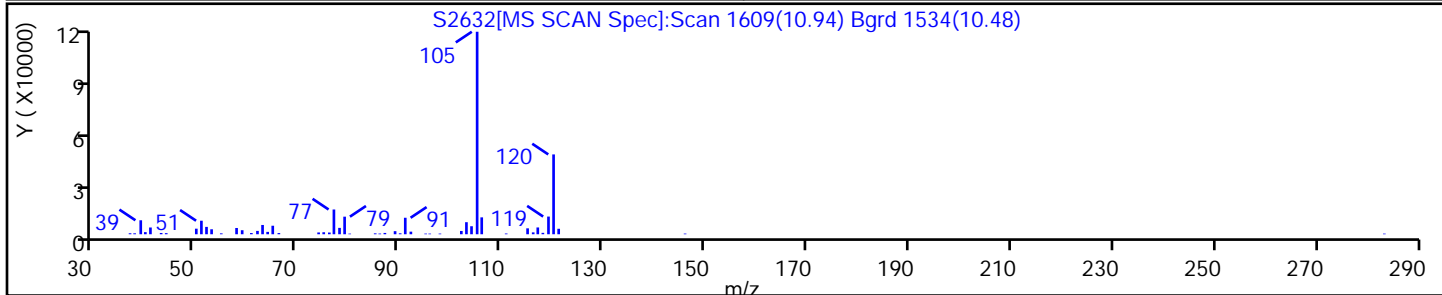
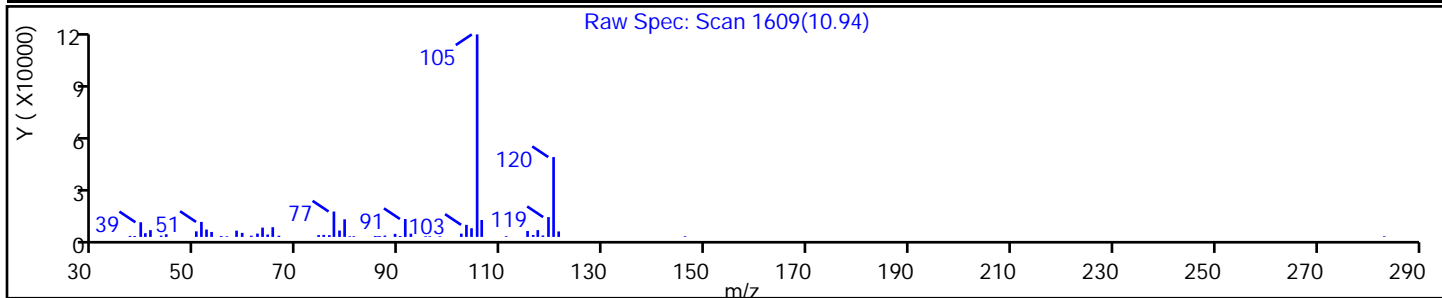
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119302	C9H12	120	94
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	46796	C9H12	120	94
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST98.L	119293	C9H12	120	91



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137605-2
 Matrix: Water Lab File ID: S2661.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 18:03
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.6		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	50		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	20		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	10		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	11		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	23		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137605-2
 Matrix: Water Lab File ID: S2661.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:03
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	31		5.0	0.80
108-87-2	Methylcyclohexane	1.3	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	9.5		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	86		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137605-2
 Matrix: Water Lab File ID: S2661.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:03
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 66

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
108-67-8	Benzene, 1,3,5-trimethyl-	10.53	39	T J N	95%
526-73-8	Benzene, 1,2,3-trimethyl-	10.94	27	T J N	95%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D
 Lims ID: 480-137605-B-2
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 23-Jun-2018 18:03:30 ALS Bottle#: 22 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-b-2
 Misc. Info.: 480-0072571-029
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:06:49 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk

Date: 24-Jun-2018 09:06:49

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	181861	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	84	371582	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	347698	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	58	228829	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	148677	26.1	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	93	923234	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	284050	25.6	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.470				ND	U
13 Vinyl chloride	62		1.543				ND	
14 Bromomethane	94		1.860				ND	
15 Chloroethane	64	1.963	1.963	0.000	60	15441	2.06	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.693				ND	U
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.845				ND	
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.247				ND	
32 Methyl tert-butyl ether	73	3.447	3.454	-0.007	89	188871	6.27	
34 trans-1,2-Dichloroethene	96		3.466				ND	U
39 1,1-Dichloroethane	63	3.898	3.892	0.006	95	192108	9.92	
45 cis-1,2-Dichloroethene	96		4.457				ND	
43 2-Butanone (MEK)	43		4.494				ND	U
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	70	14065	1.12	
52 Cyclohexane	56		4.883				ND	
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.242	5.236	0.006	66	156187	4.05	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95		5.850				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	25	4084	0.2694	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952				ND	
74 Toluene	92	7.092	7.086	0.007	91	46752	1.89	
77 trans-1,3-Dichloropropene	75		7.377				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.961				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	92	99075	2.23	
90 m-Xylene & p-Xylene	106	8.746	8.752	-0.006	0	278635	15.4	
91 o-Xylene	106	9.178	9.178	0.000	89	29341	1.71	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.470				ND	
94 Isopropylbenzene	105	9.555	9.567	-0.006	94	198425	4.53	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.821				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		17.1	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D
 Lims ID: 480-137605-B-2
 Client ID: DUPE
 Sample Type: Client
 Inject. Date: 23-Jun-2018 18:03:30 ALS Bottle#: 22 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-b-2
 Misc. Info.: 480-0072571-029
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:06:49 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027
 First Level Reviewer: nowakk Date: 24-Jun-2018 09:06:49

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
108-67-8								
10.529	654831	7.86	3	95	119299	C9H12	120	
526-73-8								
10.936	455692	5.47	3	95	119303	C9H12	120	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
----------	----	------	-------------

* 3 1,4-Dichlorobenzene-d4 10.888 2083372 25.0

QC Flag Legend

Processing Flags

Reagents:

S_8260_IS_00292 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00271 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Worklist Smp#: 29

Client ID: DUPE

Purge Vol: 5.000 mL

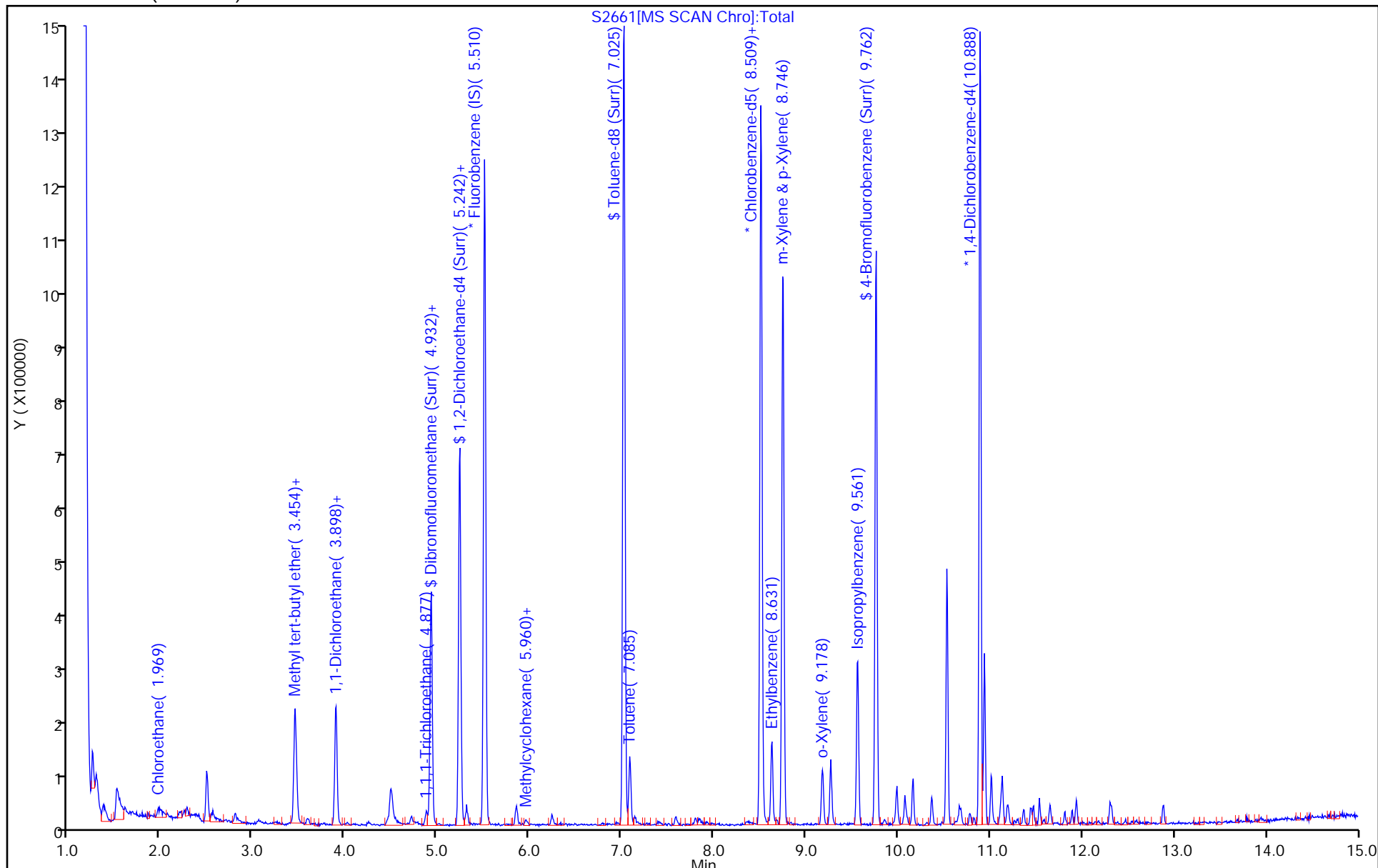
Dil. Factor: 5.0000

ALS Bottle#: 22

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

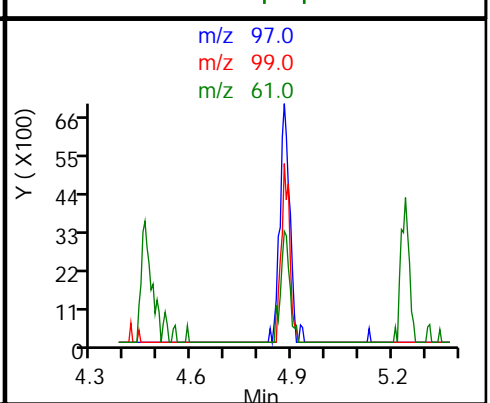
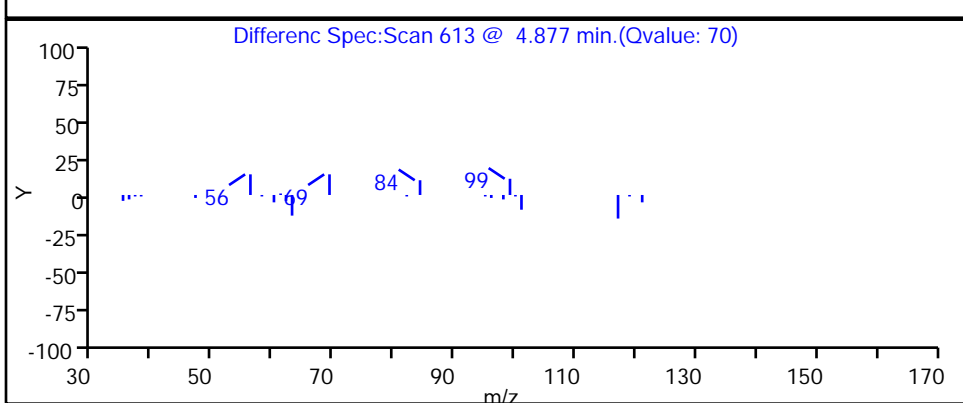
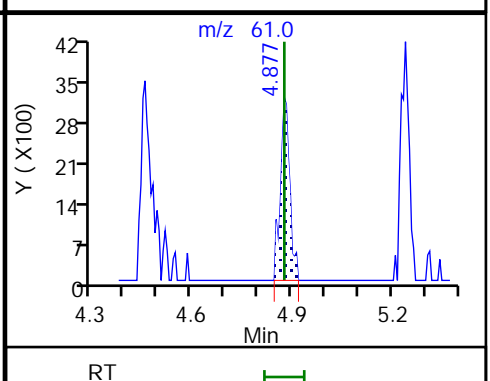
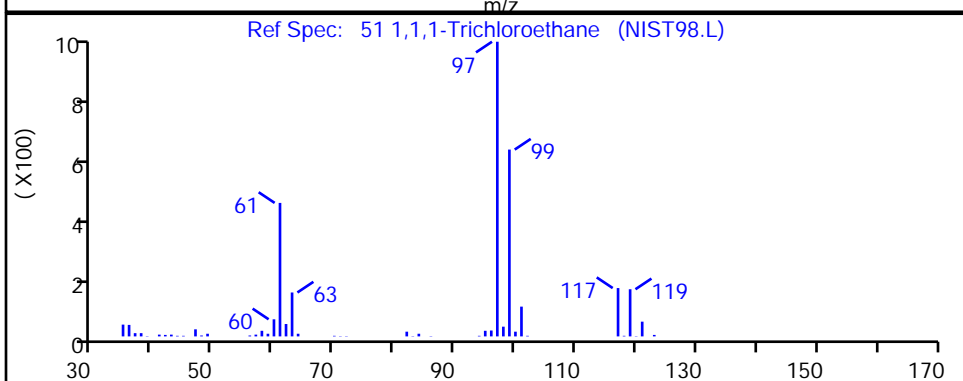
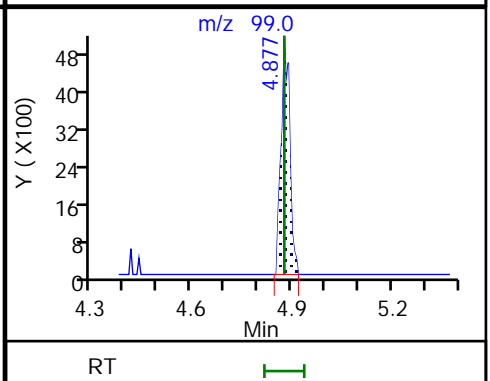
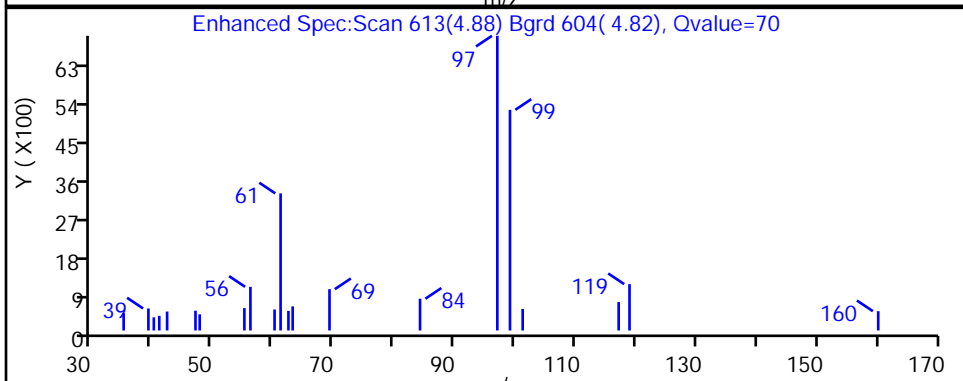
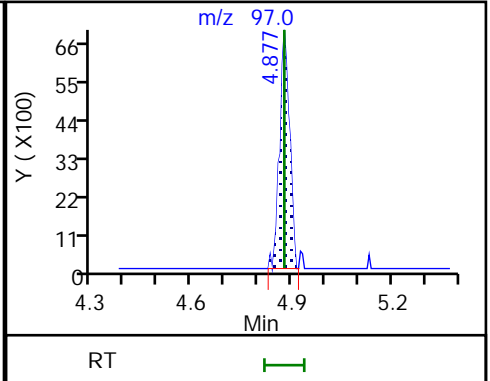
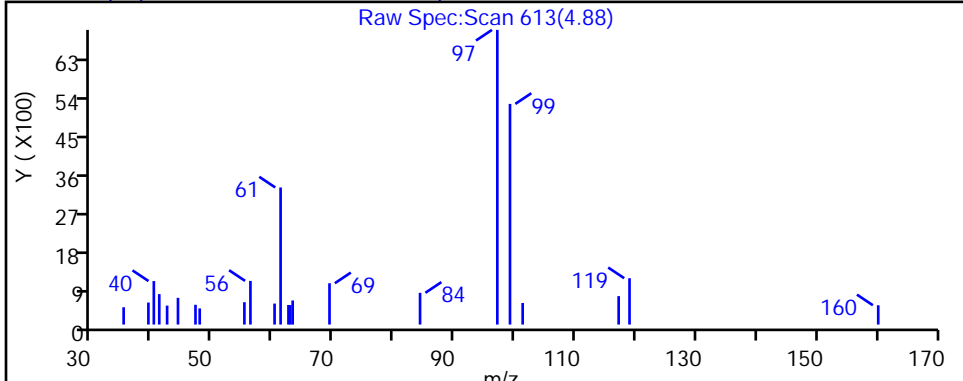
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

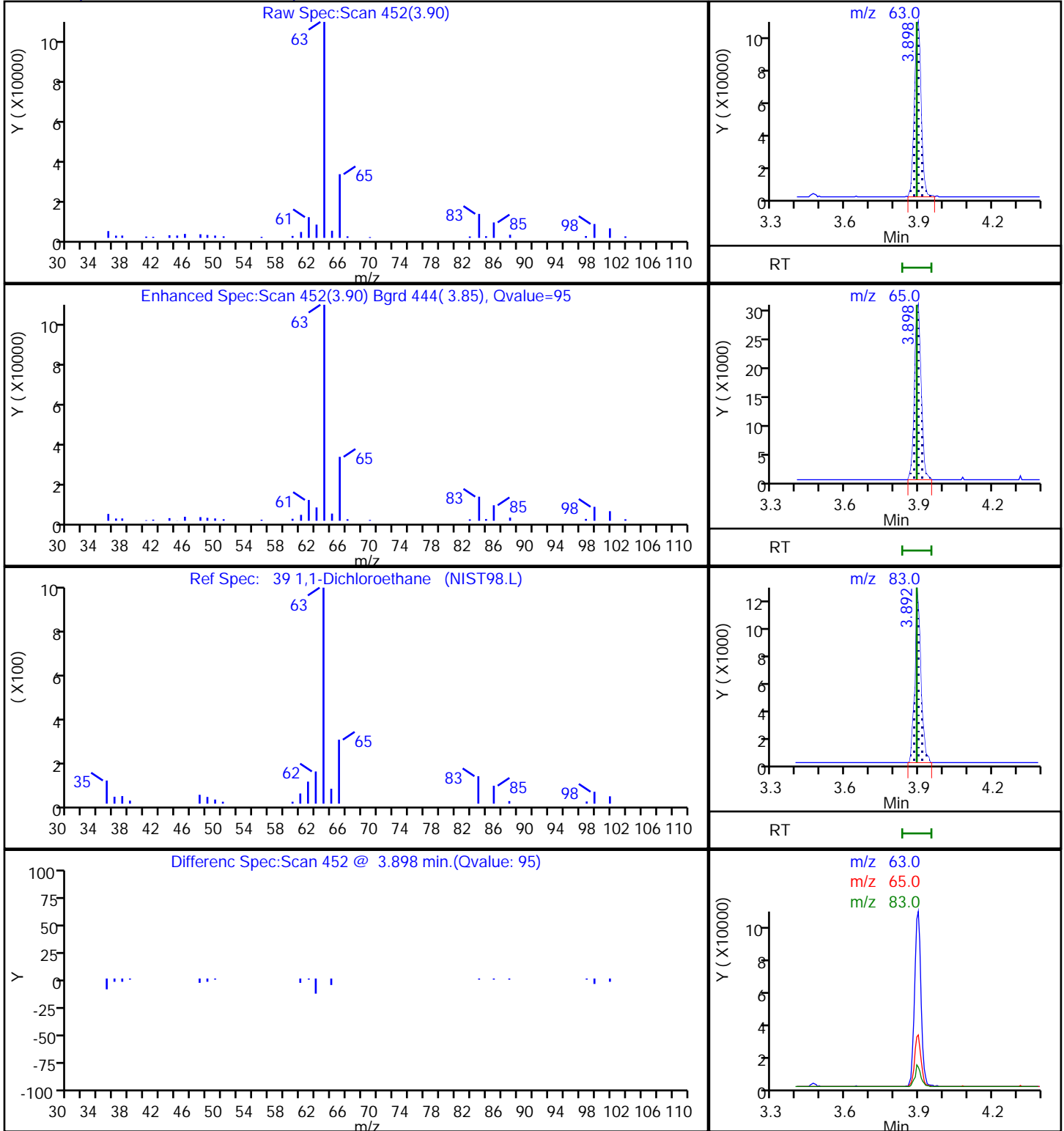
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

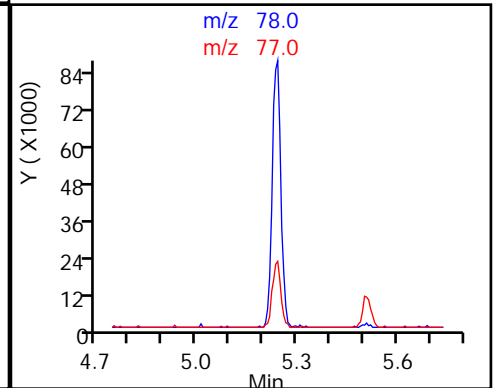
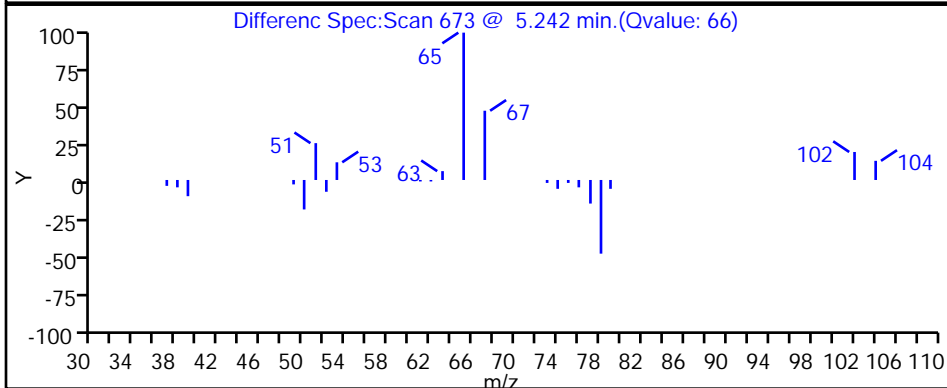
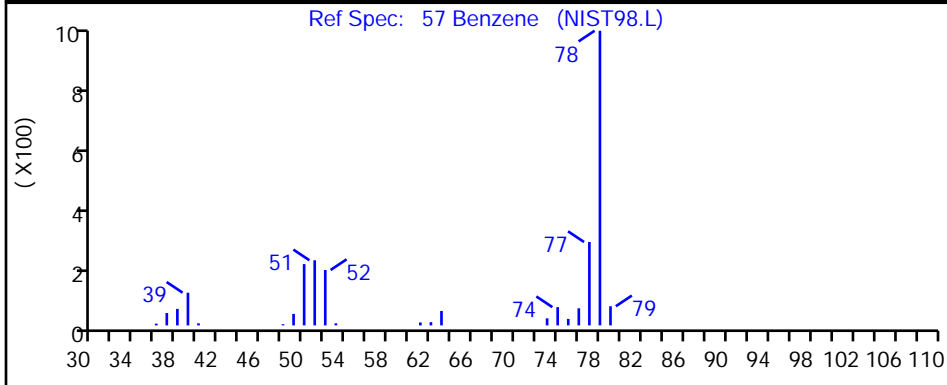
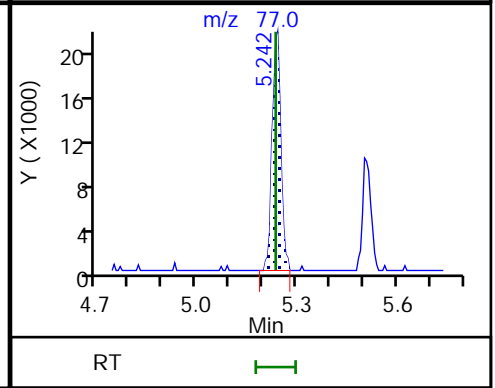
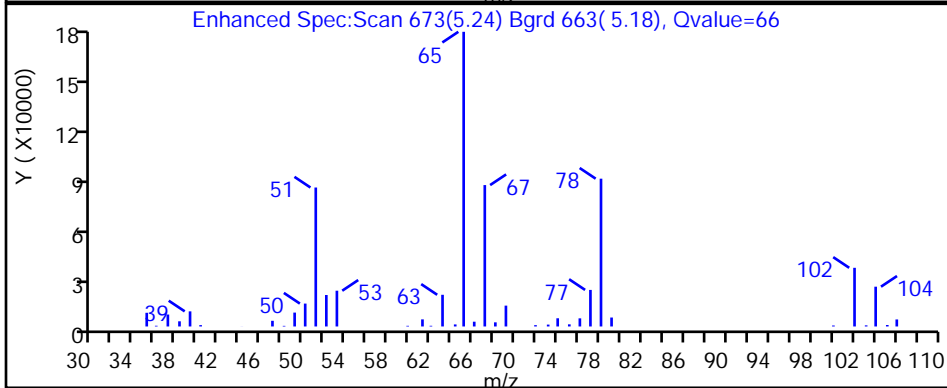
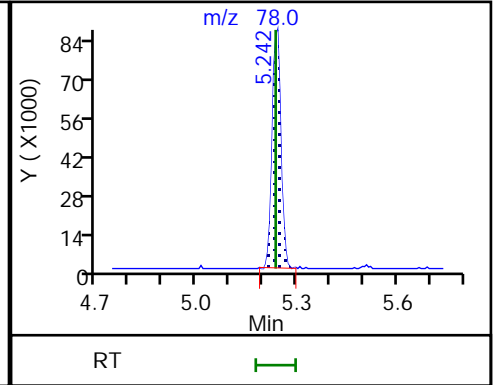
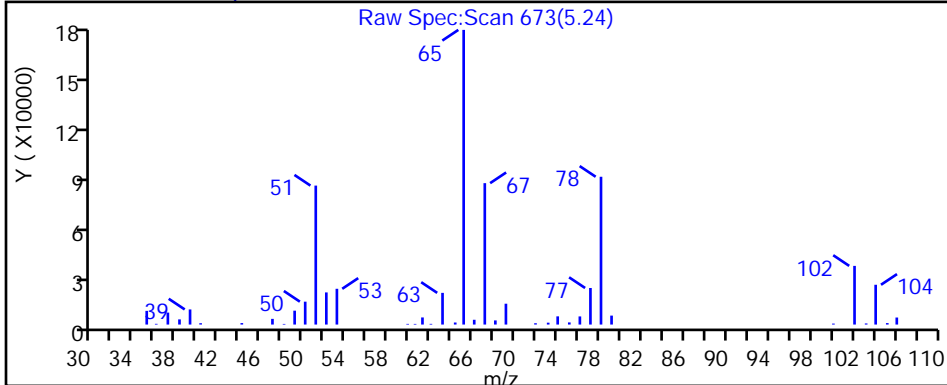
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

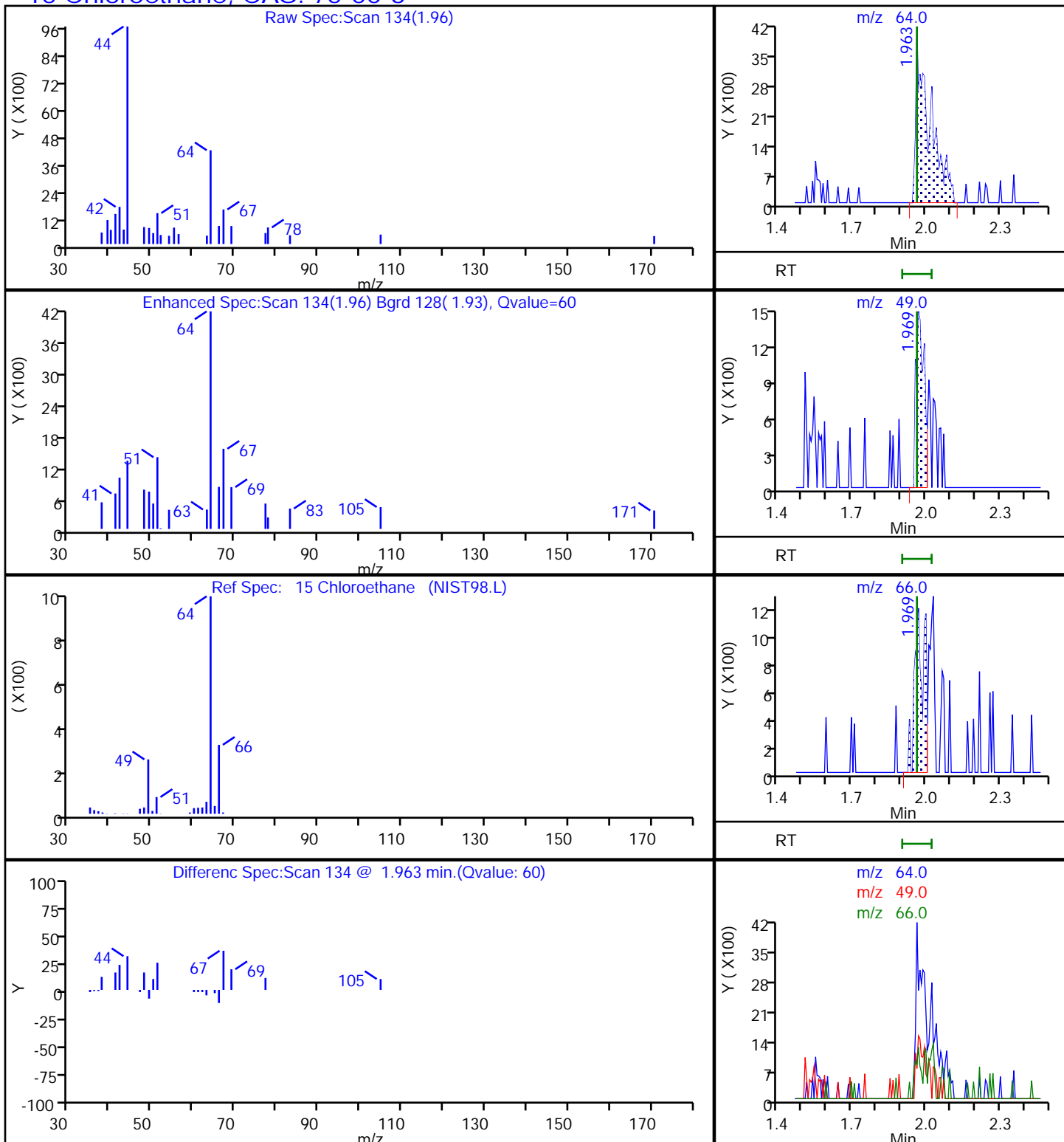
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

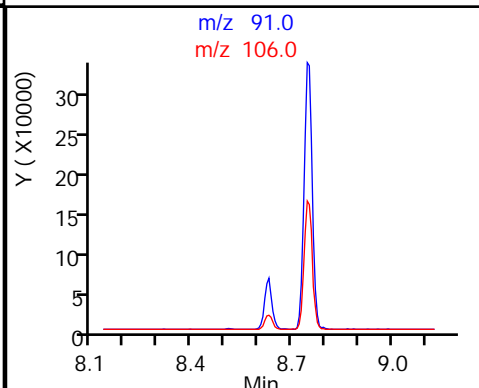
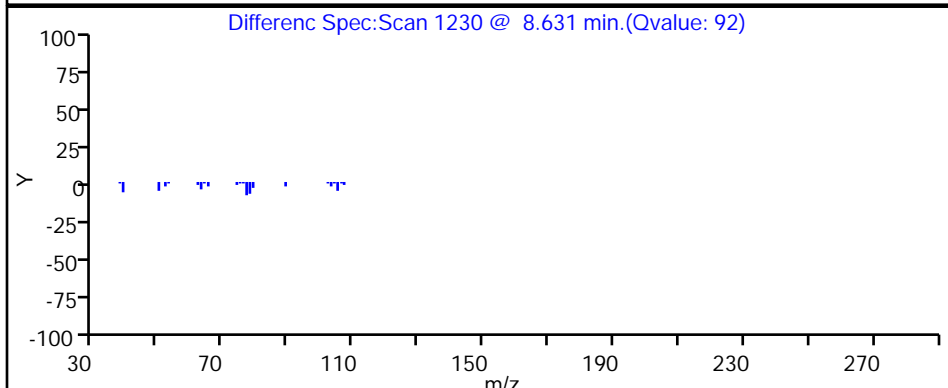
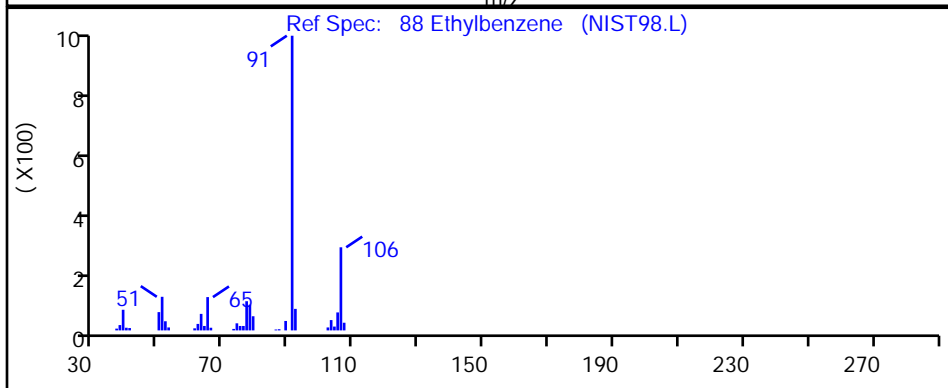
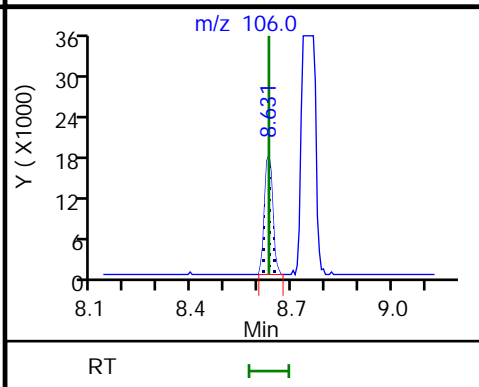
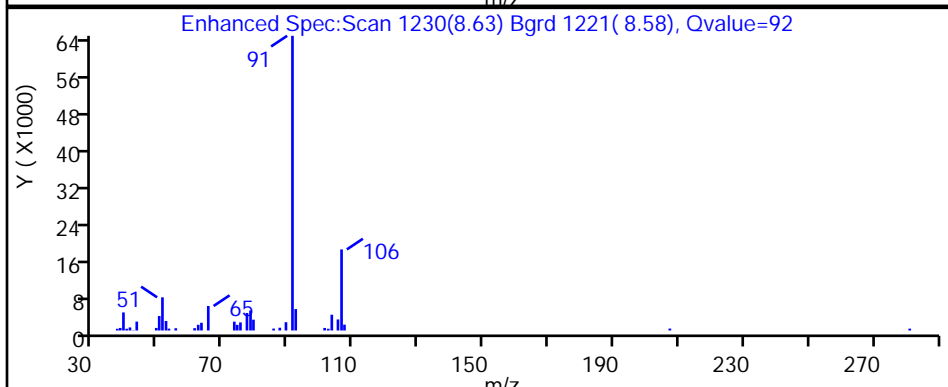
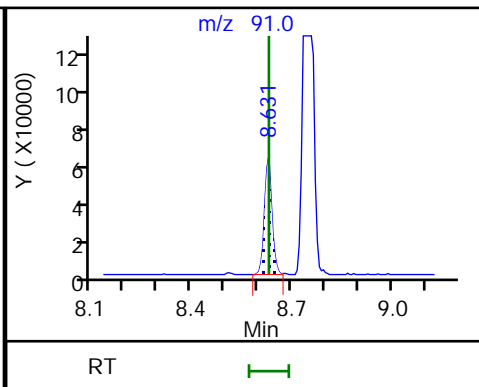
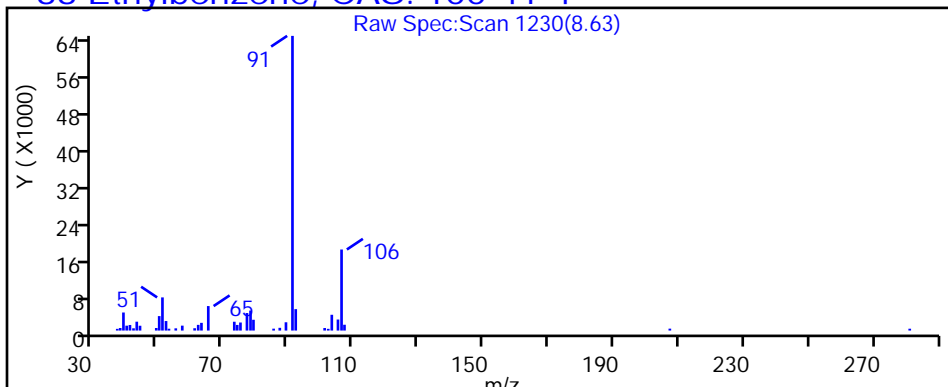
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

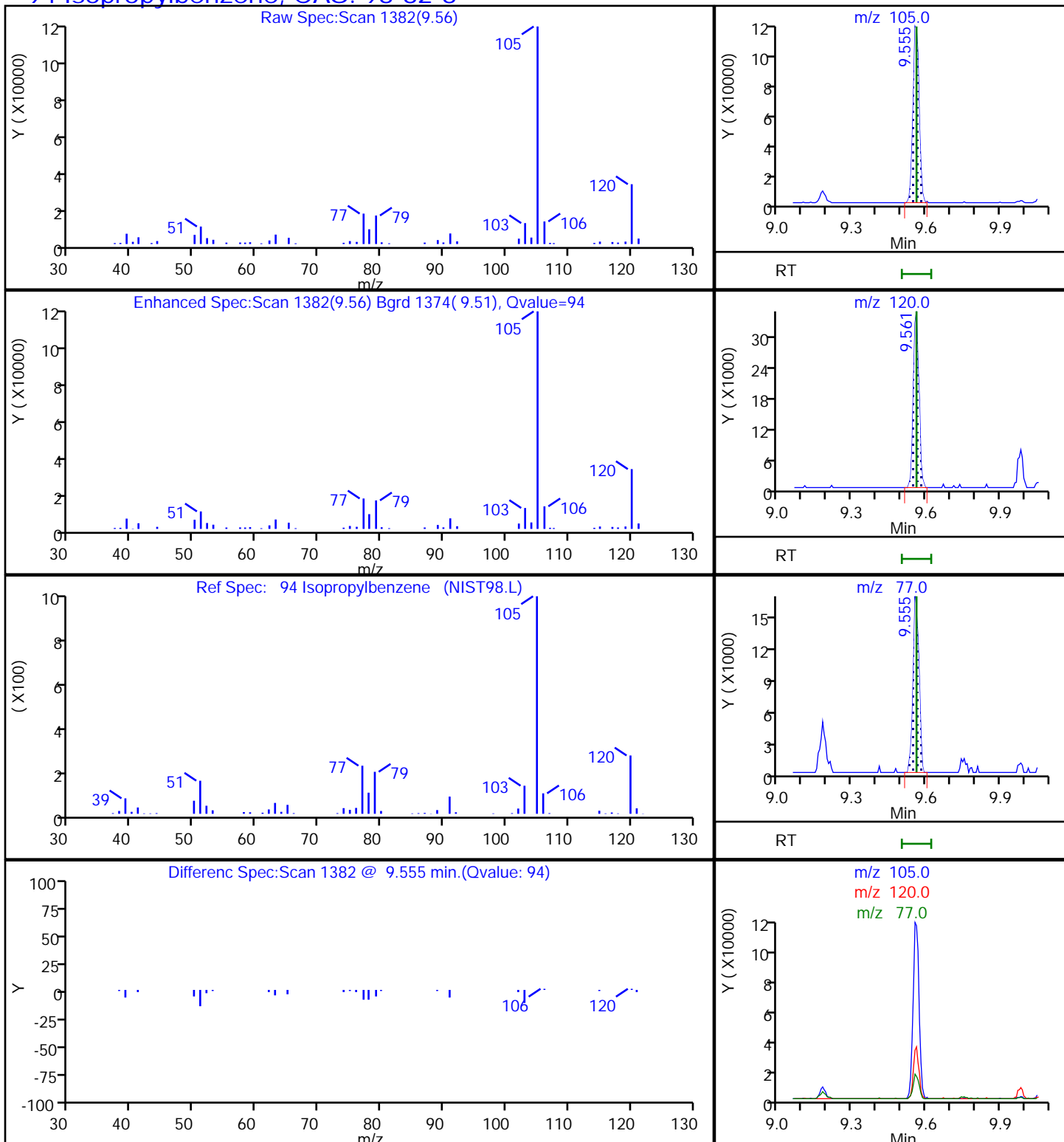
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

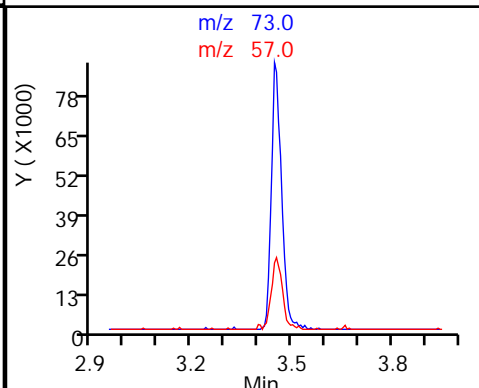
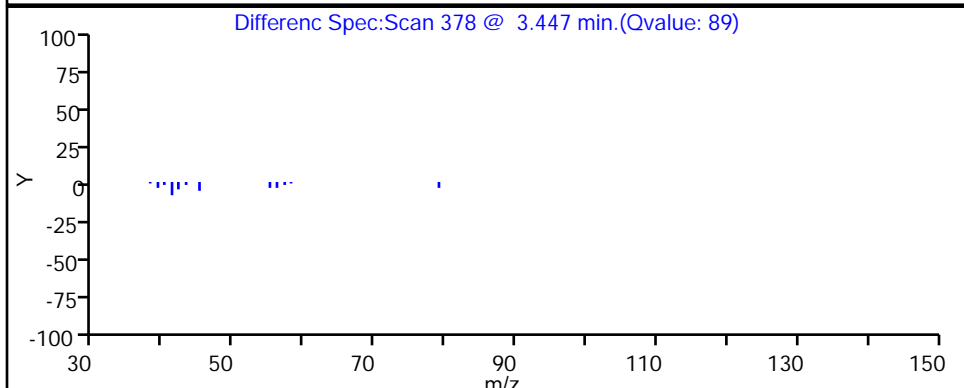
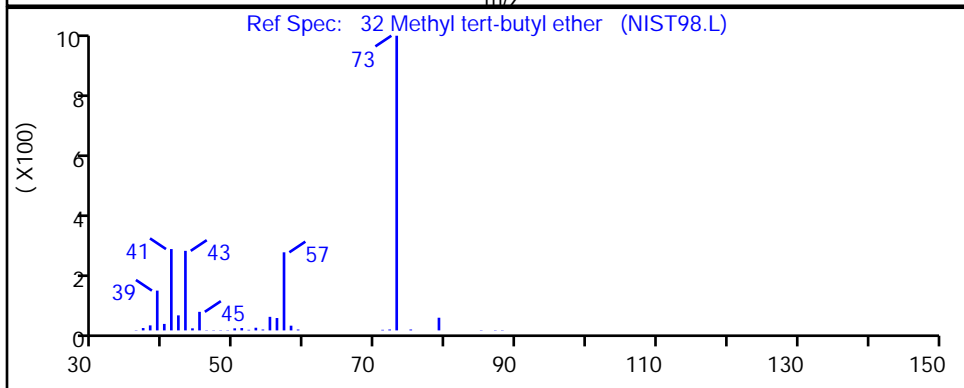
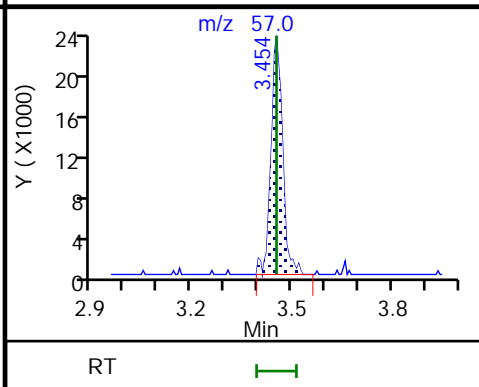
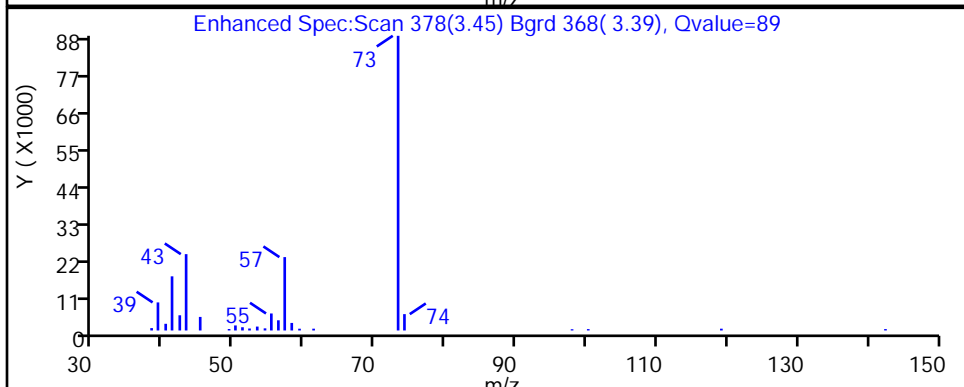
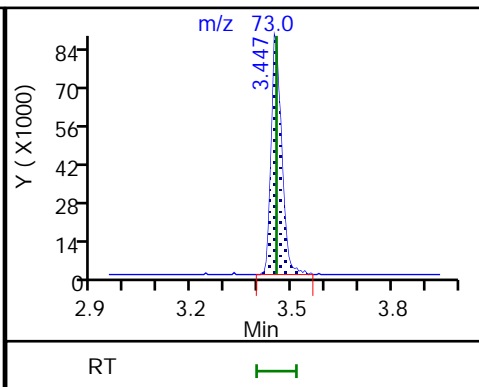
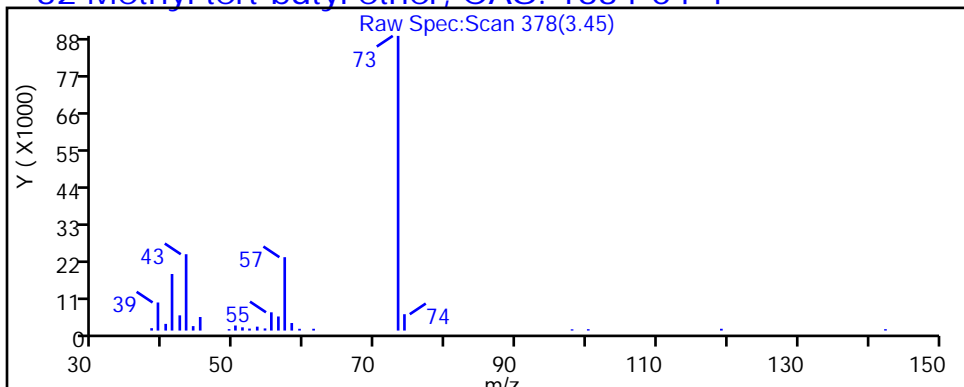
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

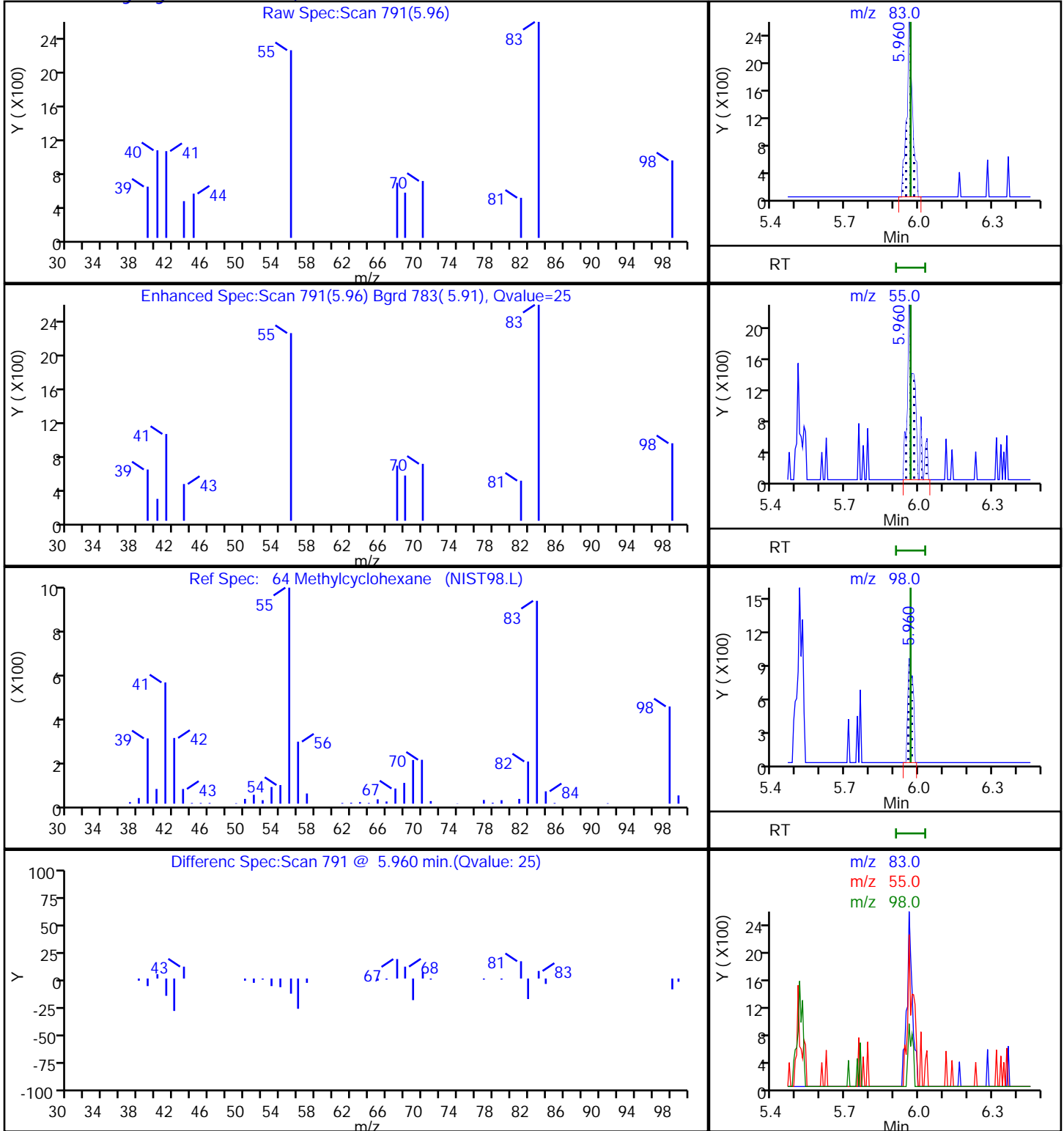
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

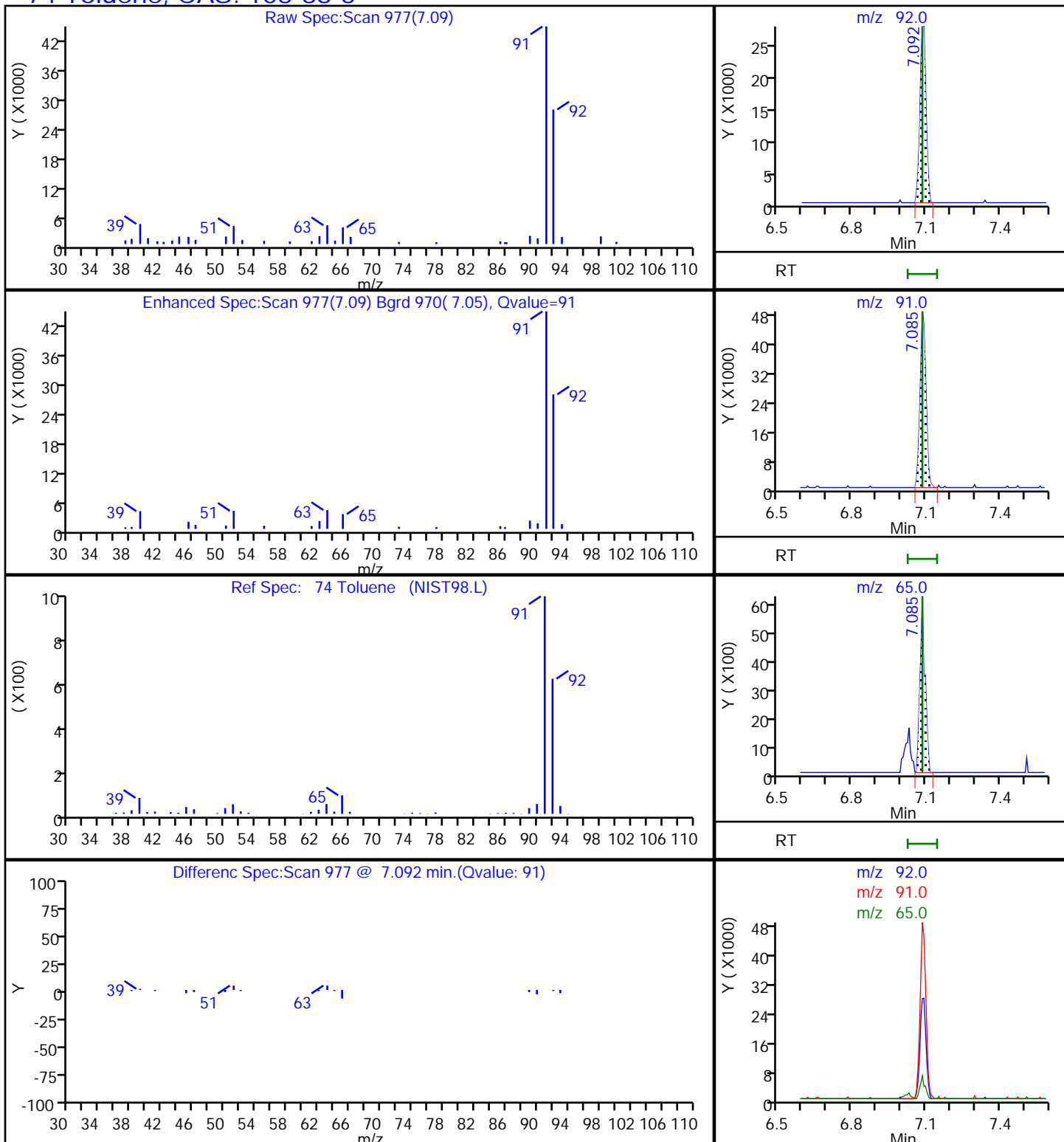
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

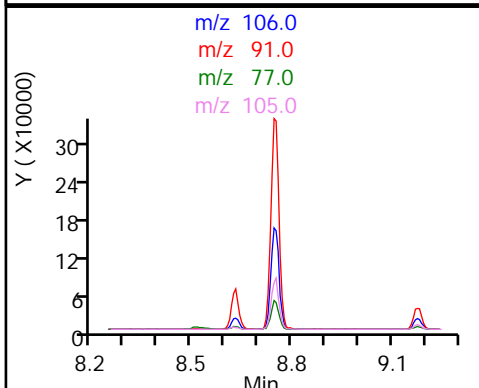
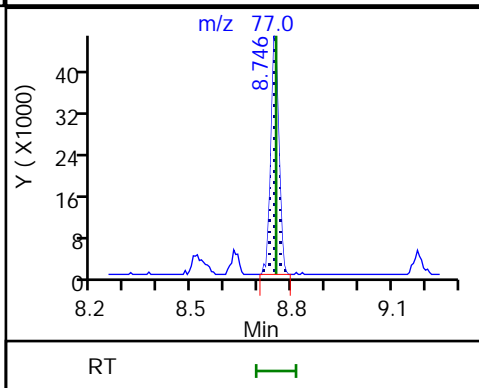
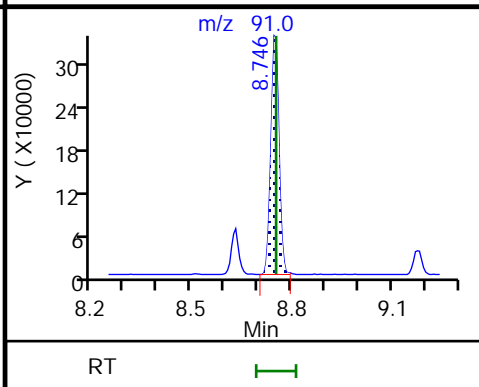
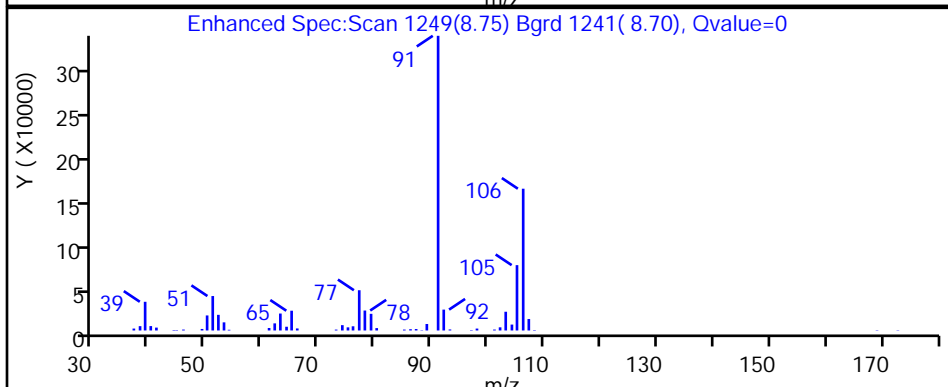
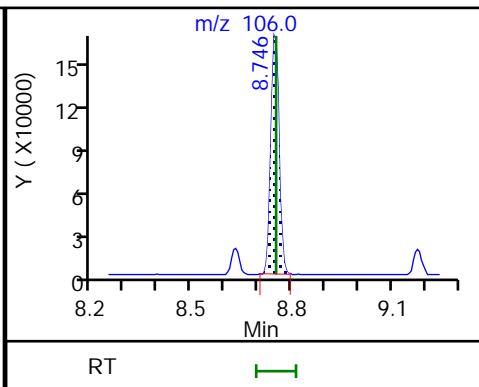
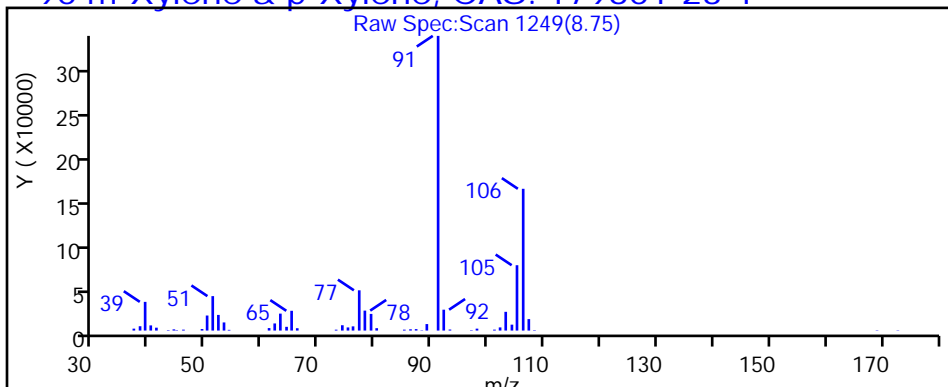
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

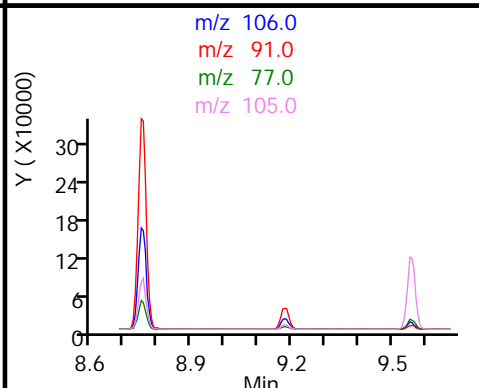
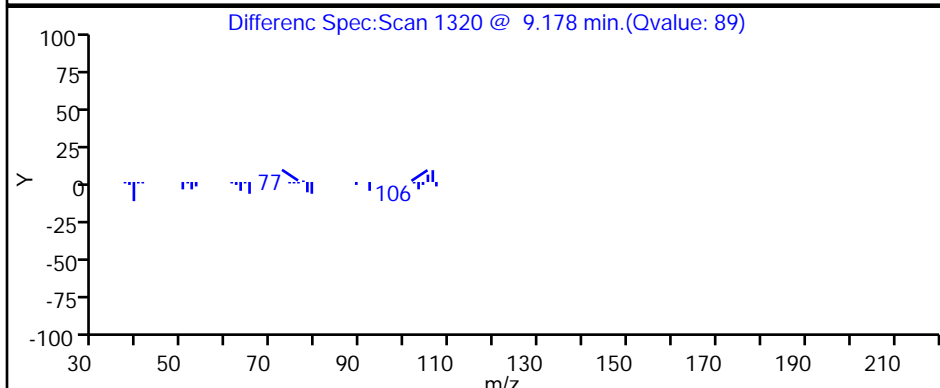
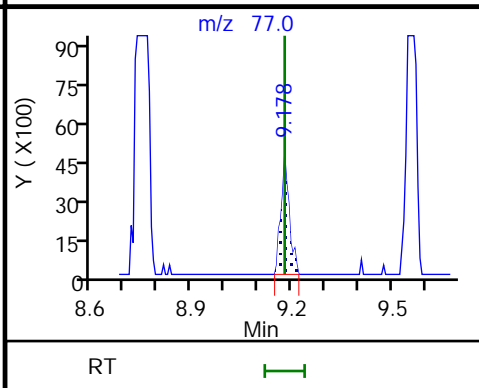
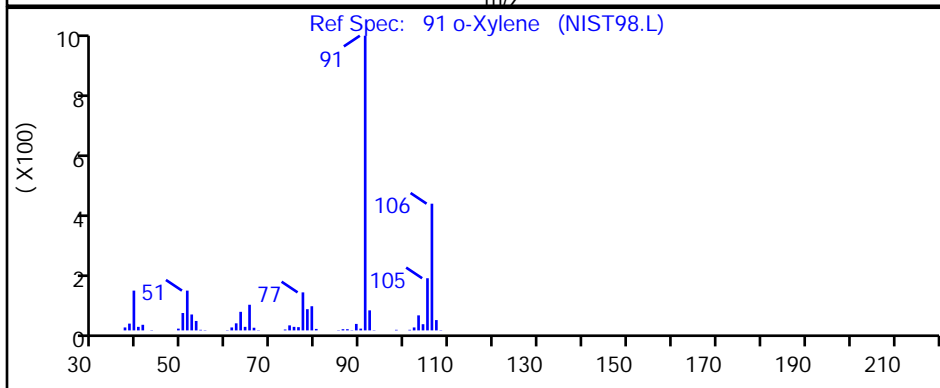
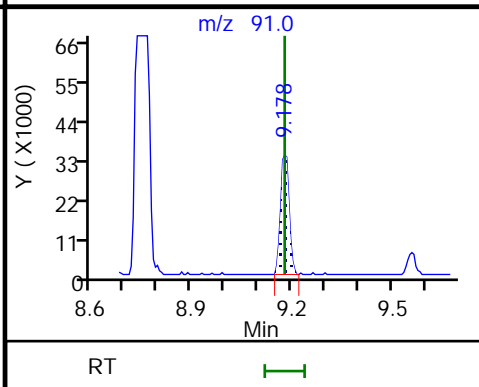
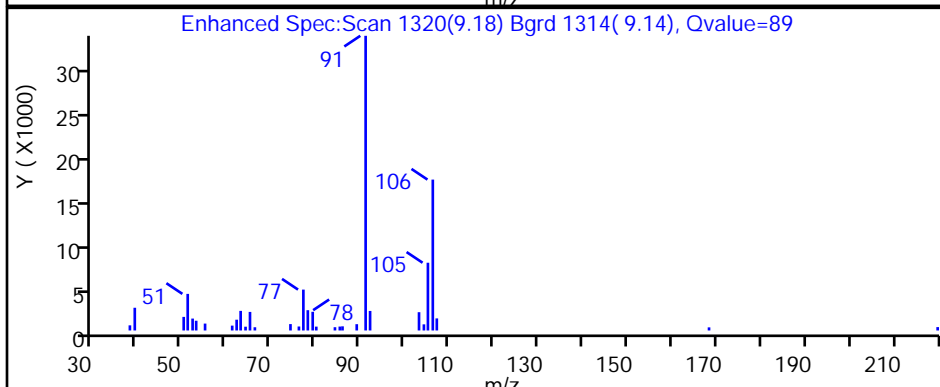
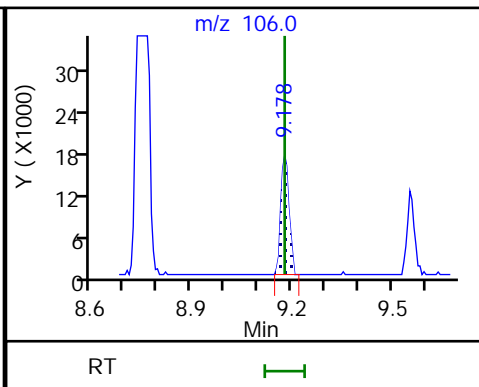
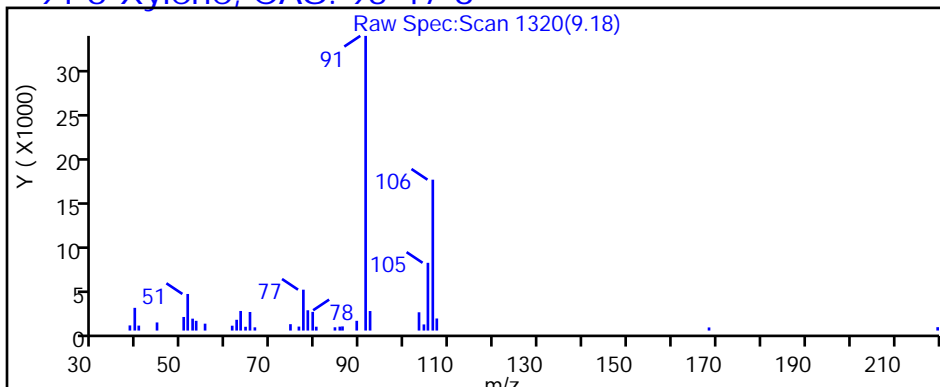
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22 Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: S-8260

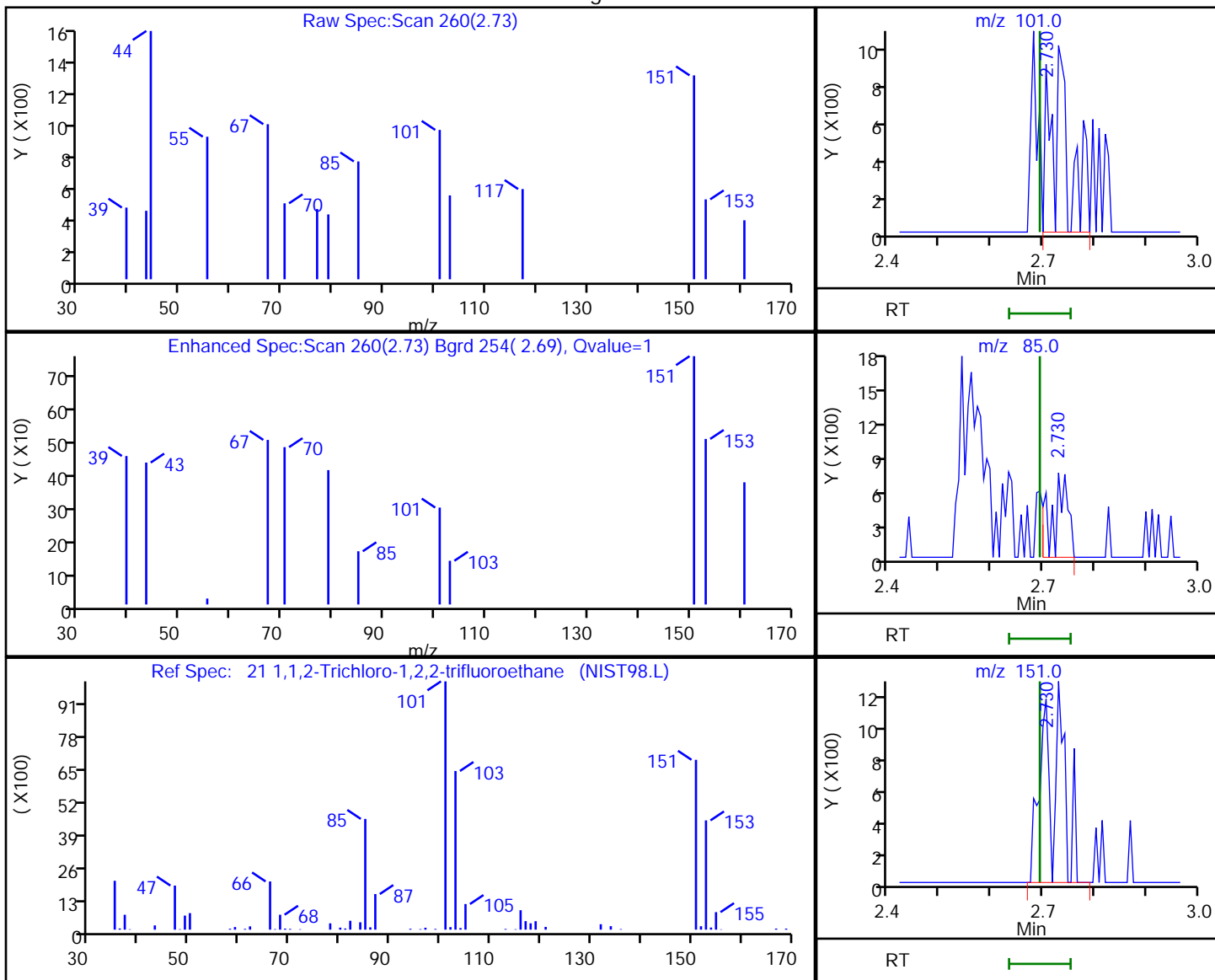
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.73	101.00	2287	0.687488
2.73	85.00	1505	
2.73	151.00	3247	

Reviewer: nowakk, 24-Jun-2018 09:06:18

Audit Action: Marked Compound Undetected

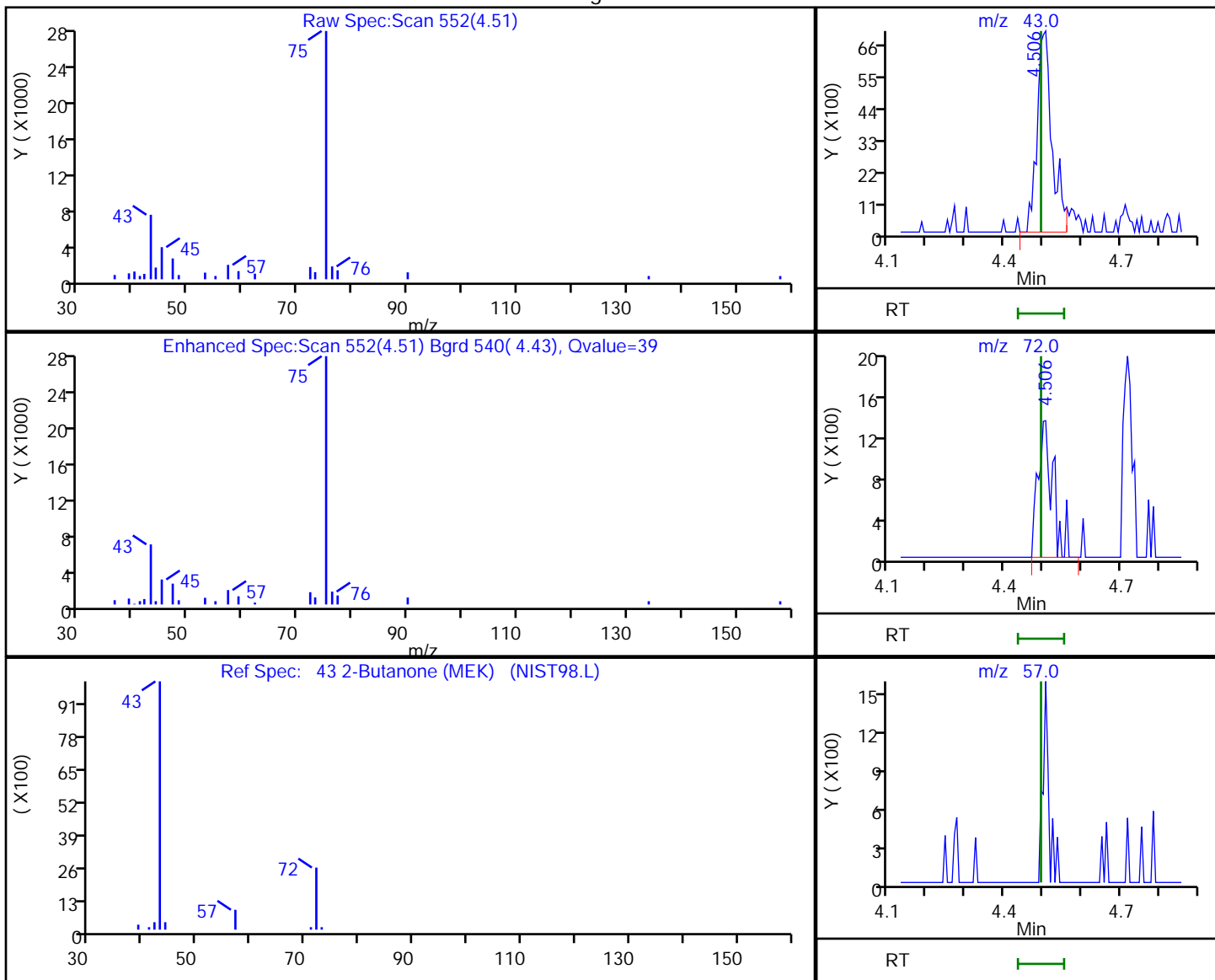
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D
Injection Date: 23-Jun-2018 18:03:30 Instrument ID: HP5973S
Lims ID: 480-137605-B-2 Lab Sample ID: 480-137605-2
Client ID: DUPE
Operator ID: RB ALS Bottle#: 22 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.51	43.00	18982	3.533005
4.51	72.00	3565	
4.49	57.00	0	

Reviewer: nowakk, 24-Jun-2018 09:06:28

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22 Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: S-8260

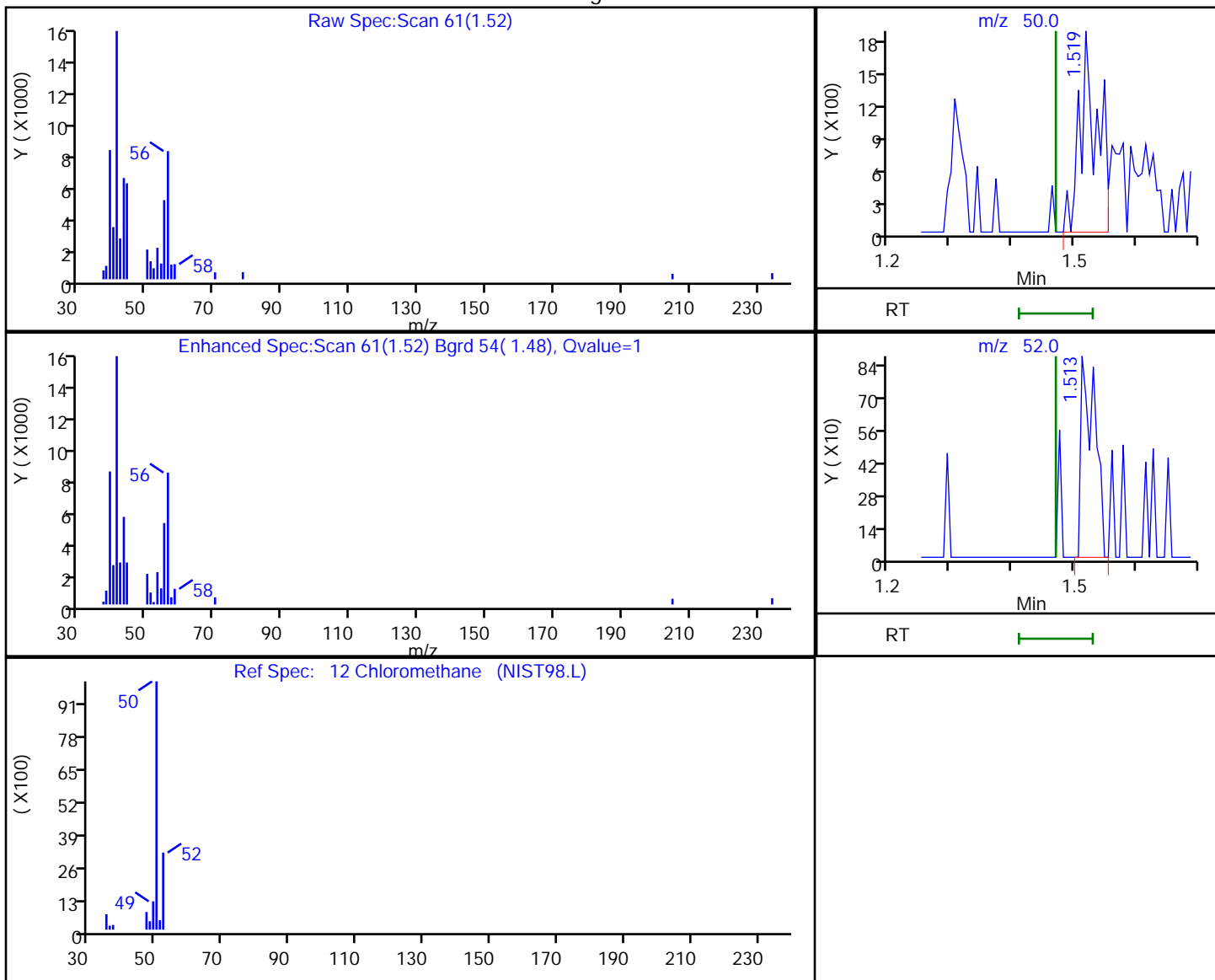
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.52	50.00	3670	0.263789
1.51	52.00	1361	

Reviewer: nowakk, 24-Jun-2018 09:06:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: S-8260

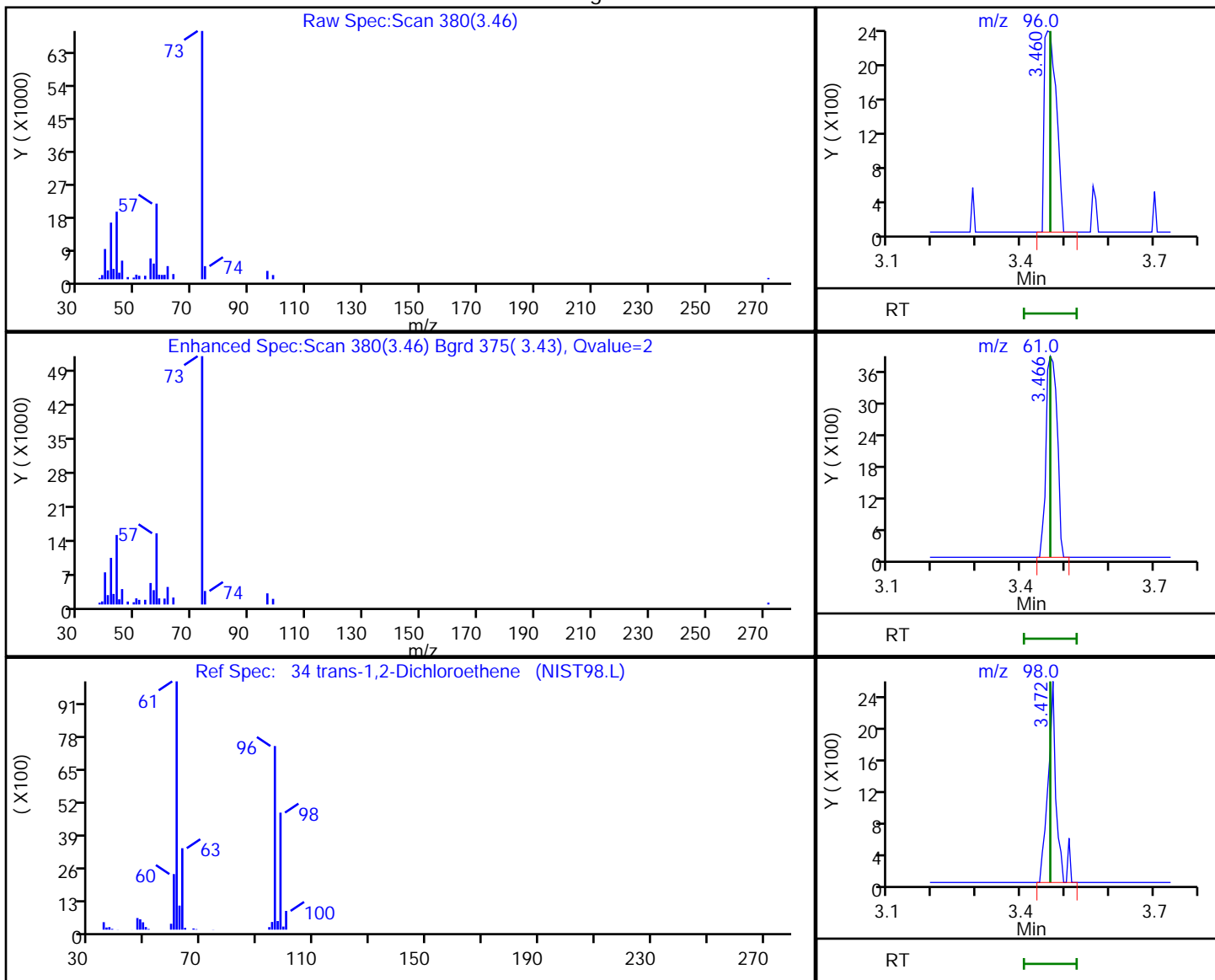
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
3.46	96.00	4395	0.478055
3.47	61.00	6839	
3.47	98.00	3250	

Reviewer: nowakk, 24-Jun-2018 09:06:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22 Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

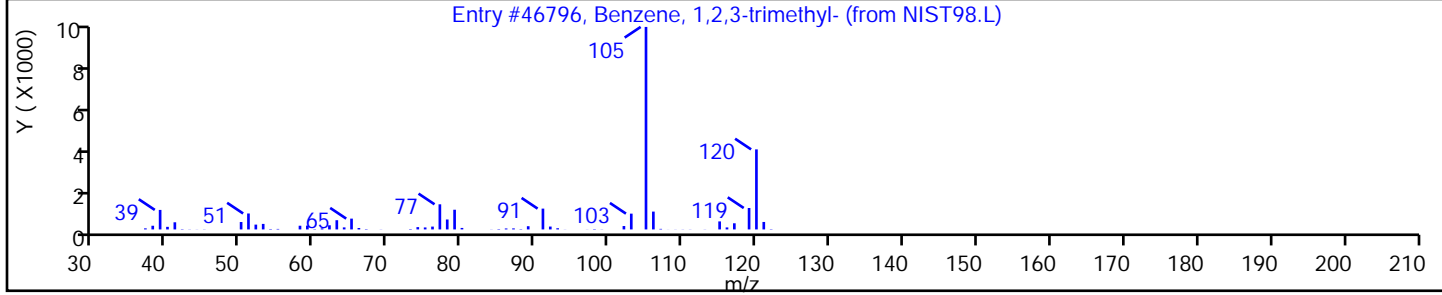
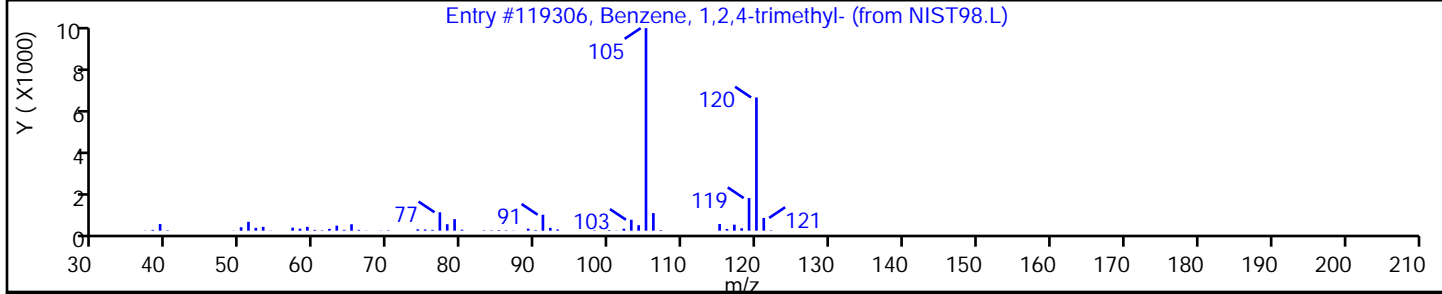
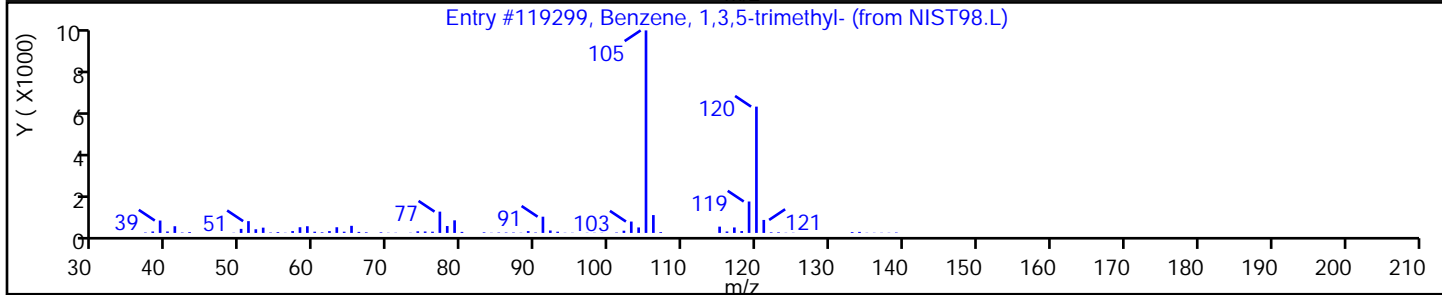
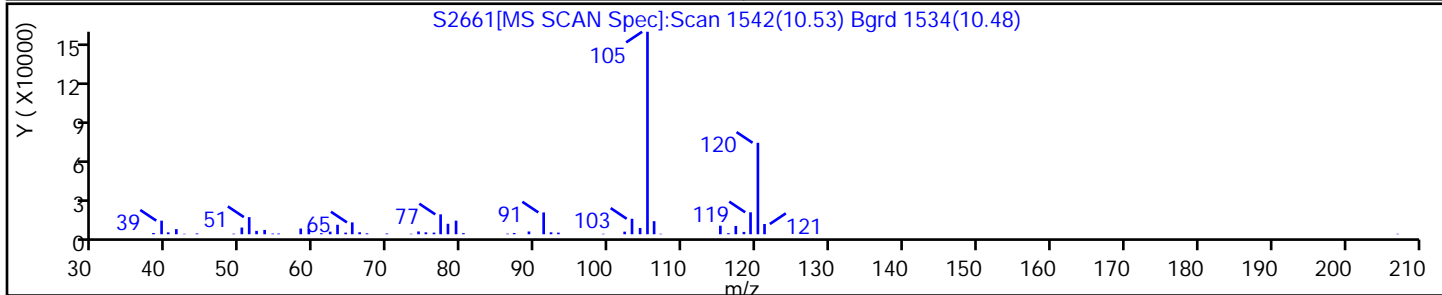
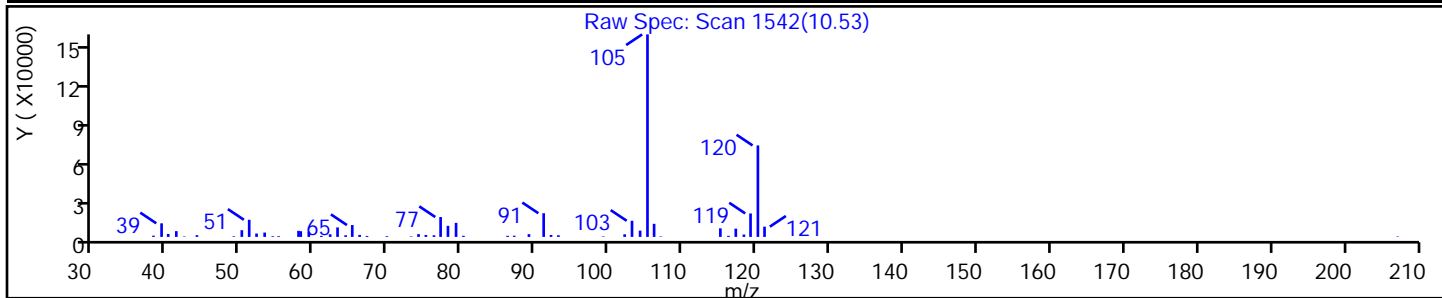
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119306	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	46796	C9H12	120	95



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2661.D

Injection Date: 23-Jun-2018 18:03:30

Instrument ID: HP5973S

Lims ID: 480-137605-B-2

Lab Sample ID: 480-137605-2

Client ID: DUPE

Operator ID: RB

ALS Bottle#: 22

Worklist Smp#: 29

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

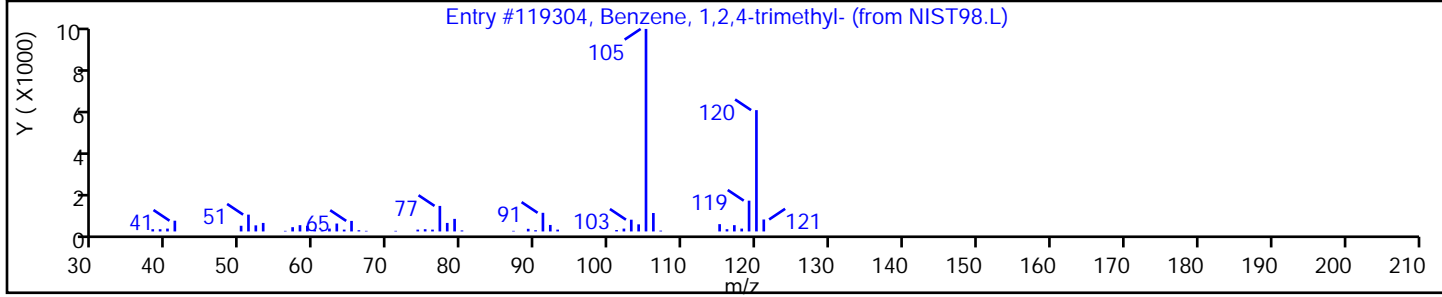
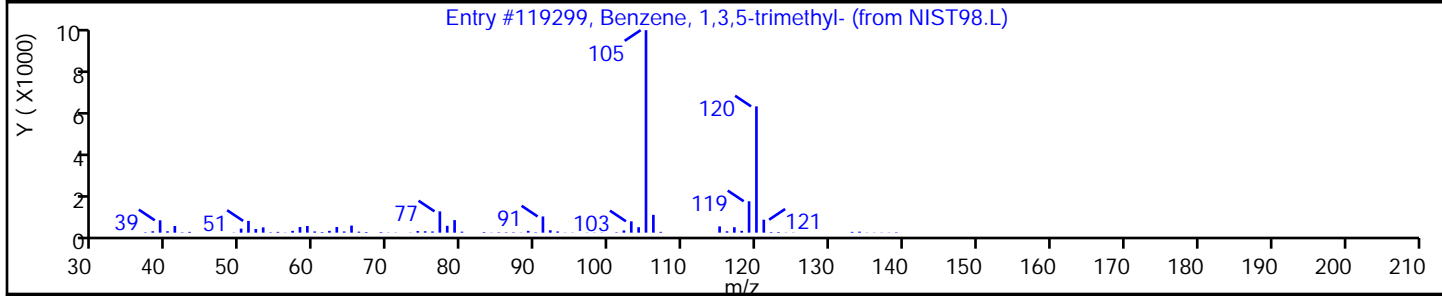
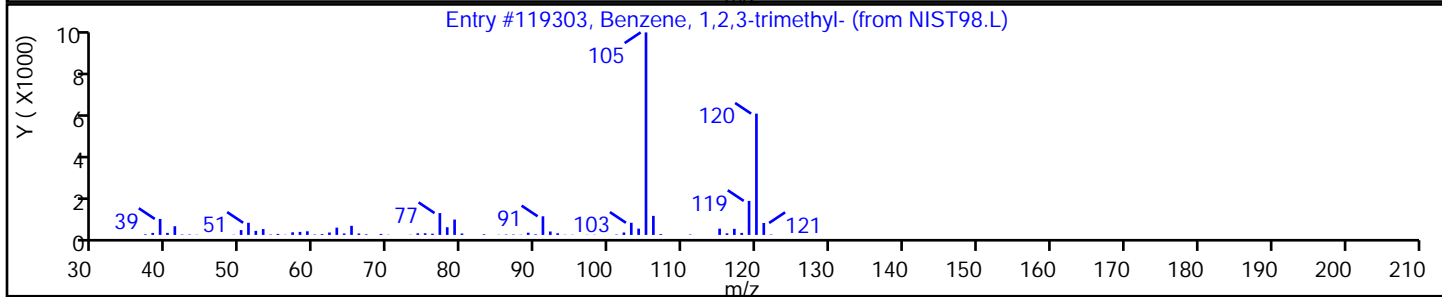
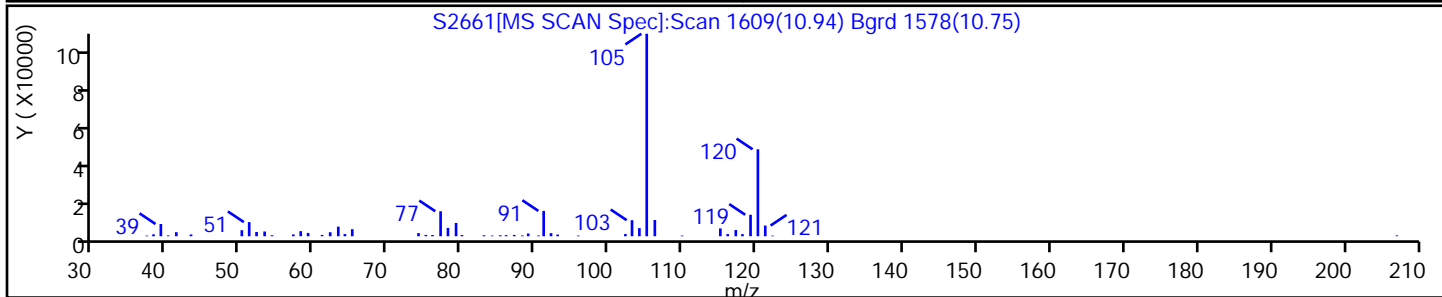
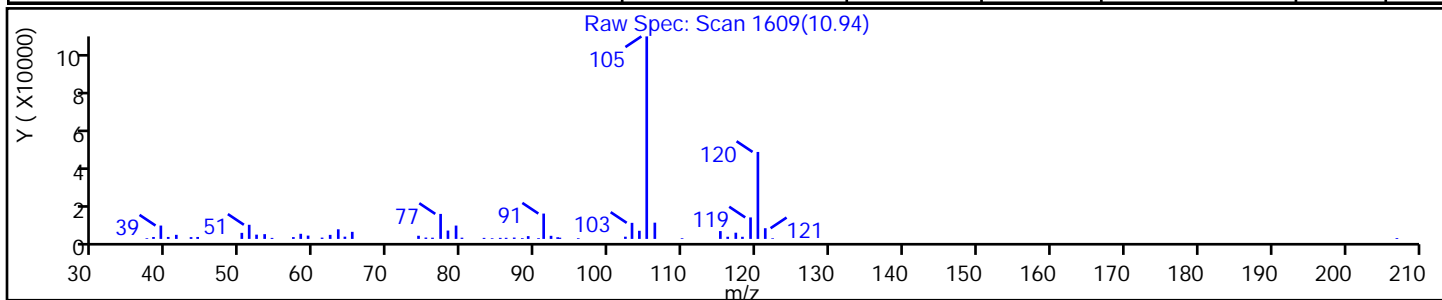
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector: MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119299	C9H12	120	94
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	94



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: S2662.D
 Analysis Method: 8260C Date Collected: 06/15/2018 11:44
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:26
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	63		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	57		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	25		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	5.4		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	14		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	13		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	25		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: S2662.D
 Analysis Method: 8260C Date Collected: 06/15/2018 11:44
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:26
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	47		5.0	0.80
108-87-2	Methylcyclohexane	1.4	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	23		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	110		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: S2662.D
 Analysis Method: 8260C Date Collected: 06/15/2018 11:44
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:26
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 3 TIC Result Total: 80

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
60-29-7	Ethyl ether	2.50	13	T J N	86%
526-73-8	Benzene, 1,2,3-trimethyl-	10.53	41	T J N	95%
620-14-4	Benzene, 1-ethyl-3-methyl-	10.94	26	T J N	94%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D
 Lims ID: 480-137605-G-3
 Client ID: ML-2-I
 Sample Type: Client
 Inject. Date: 23-Jun-2018 18:26:30 ALS Bottle#: 23 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-g-3
 Misc. Info.: 480-0072571-030
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:07:39 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: nowakk Date: 24-Jun-2018 09:07:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	184824	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	84	384302	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	342910	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	66	227790	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	150704	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	93	911515	24.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	275746	24.0	
10 Dichlorodifluoromethane	85		1.282				ND	U
12 Chloromethane	50		1.470				ND	U
13 Vinyl chloride	62		1.543				ND	U
14 Bromomethane	94		1.860				ND	
15 Chloroethane	64	1.981	1.963	0.018	24	8256	1.08	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.693				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.845				ND	
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.247				ND	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	93	287990	9.41	
34 trans-1,2-Dichloroethene	96		3.466				ND	
39 1,1-Dichloroethane	63	3.898	3.892	0.006	94	249023	12.7	
45 cis-1,2-Dichloroethene	96	4.463	4.457	0.006	79	30204	2.81	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	65	61994	11.4	
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97		4.877				ND	
52 Cyclohexane	56		4.883				ND	U
55 Carbon tetrachloride	117		5.011				ND	
57 Benzene	78	5.236	5.236	0.000	73	195672	4.99	
58 1,2-Dichloroethane	62		5.309				ND	
62 Trichloroethene	95		5.850				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.966	5.966	0.000	53	4184	0.2716	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.945	6.952	-0.007	51	4710	0.3839	
74 Toluene	92	7.091	7.086	0.006	79	118742	4.65	
77 trans-1,3-Dichloropropene	75		7.377				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.615				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.961				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	99	122325	2.66	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	367058	19.6	
91 o-Xylene	106	9.172	9.178	-0.006	92	41564	2.34	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.470				ND	
94 Isopropylbenzene	105	9.561	9.567	0.000	93	215591	4.99	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.821				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		21.9	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D
 Lims ID: 480-137605-G-3
 Client ID: ML-2-I
 Sample Type: Client
 Inject. Date: 23-Jun-2018 18:26:30 ALS Bottle#: 23 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-g-3
 Misc. Info.: 480-0072571-030
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 24-Jun-2018 09:07:39 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027
 First Level Reviewer: nowakk Date: 24-Jun-2018 09:07:39

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
60-29-7	Ethyl ether							
2.498	219339	2.67	153	86	108346	C4H10O	74	
526-73-8	Benzene, 1,2,3-trimethyl-							
10.529	706004	8.21	3	95	119303	C9H12	120	
620-14-4	Benzene, 1-ethyl-3-methyl-							
10.936	451036	5.24	3	94	119287	C9H12	120	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.510	2052251	25.0
* 3 1,4-Dichlorobenzene-d4	10.888	2151066	25.0

QC Flag Legend

Processing Flags

Reagents:

S_8260_IS_00292 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00271 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Worklist Smp#: 30

Client ID: ML-2-I

Purge Vol: 5.000 mL

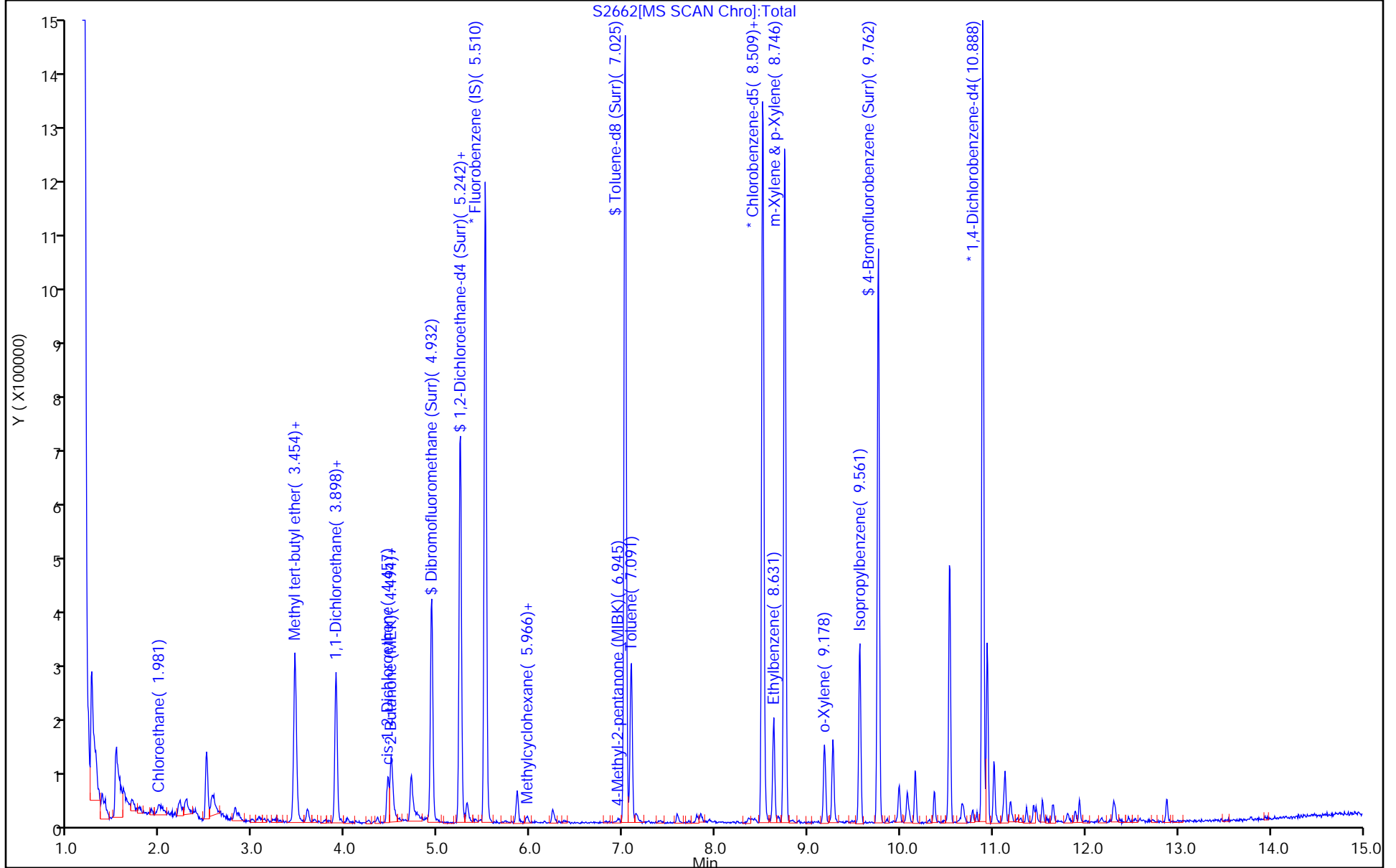
Dil. Factor: 5.0000

ALS Bottle#: 23

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

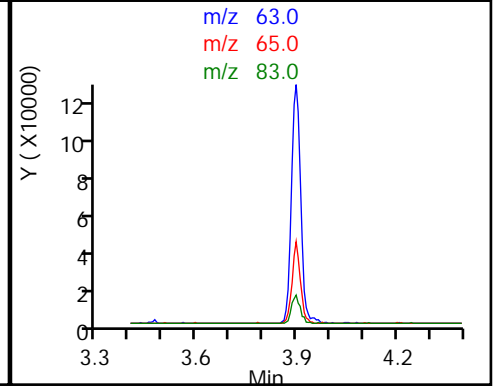
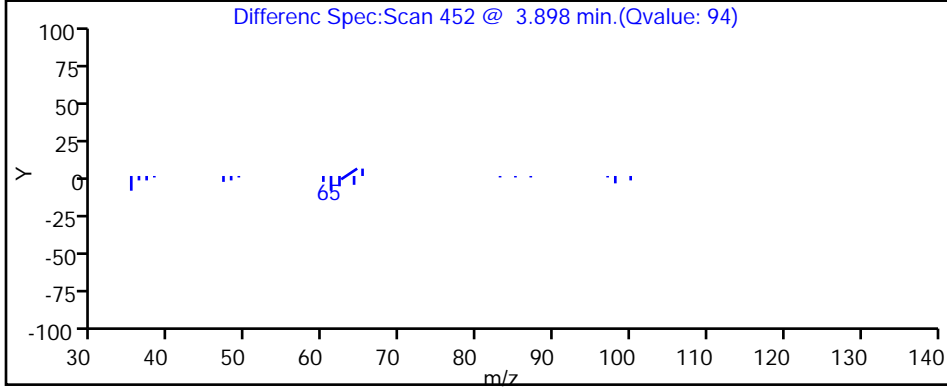
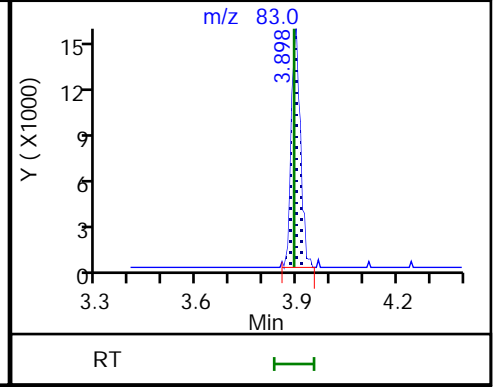
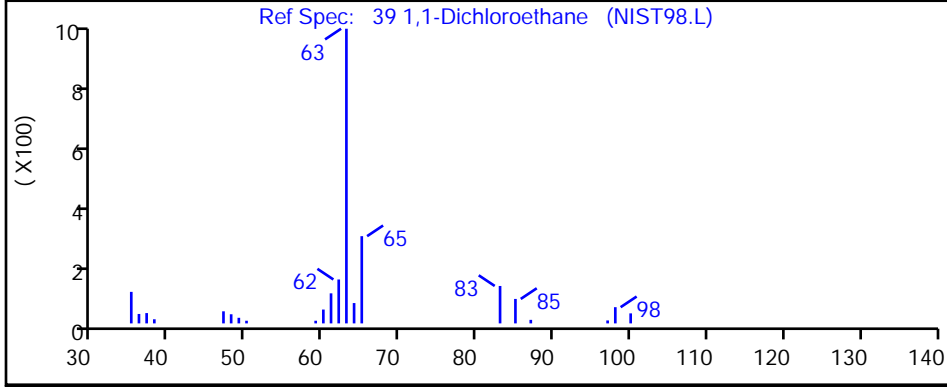
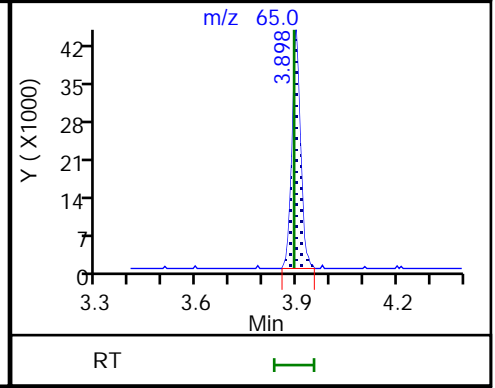
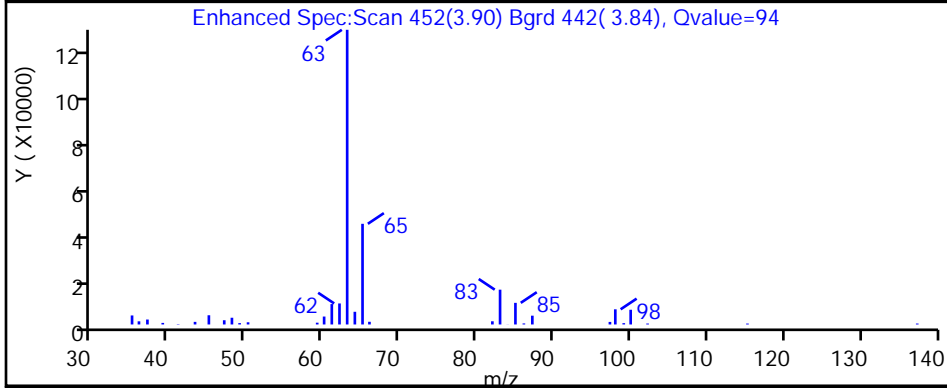
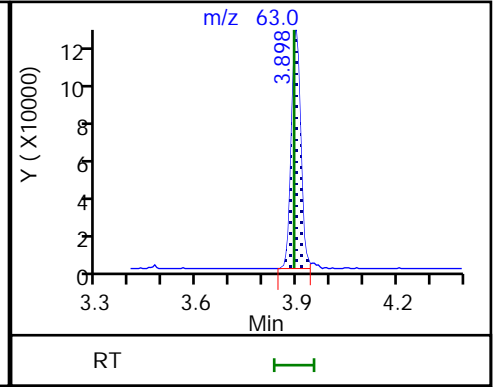
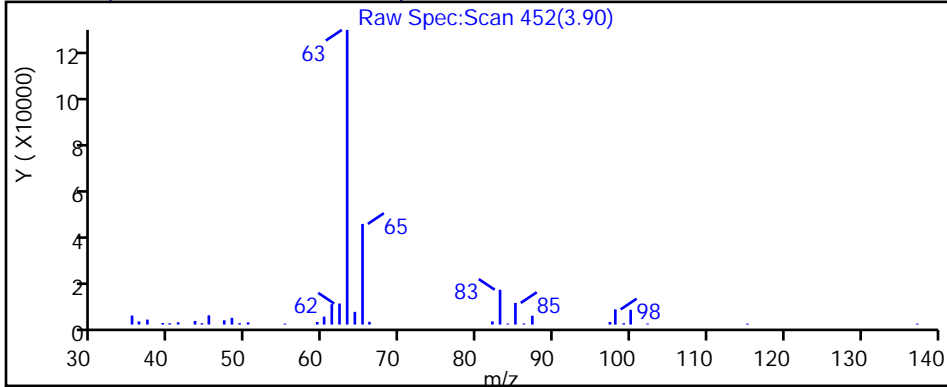
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

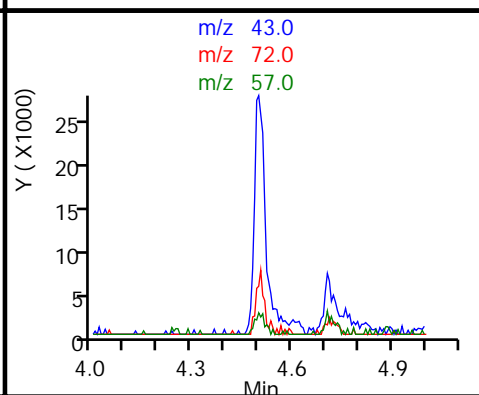
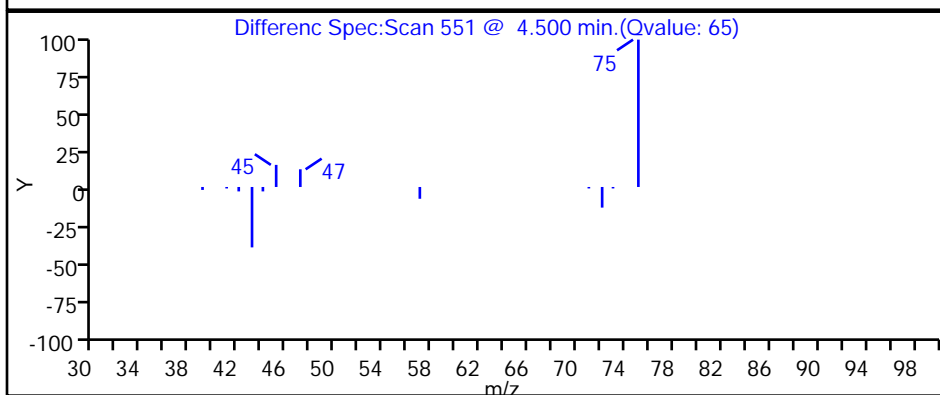
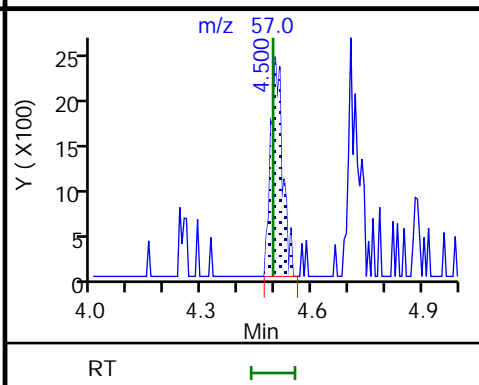
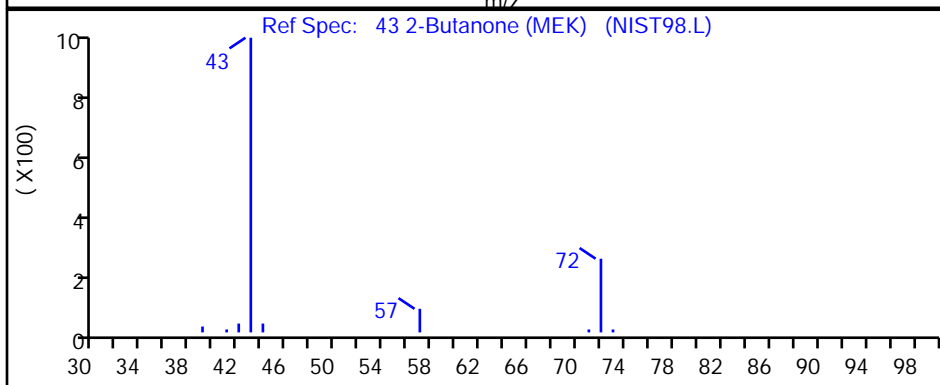
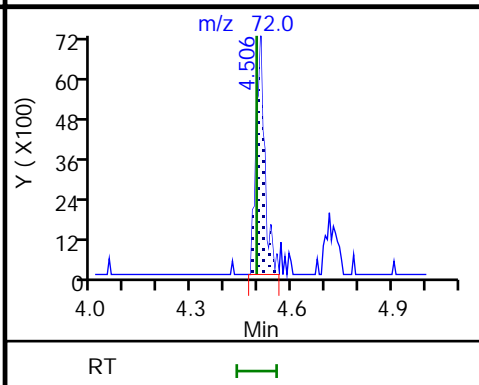
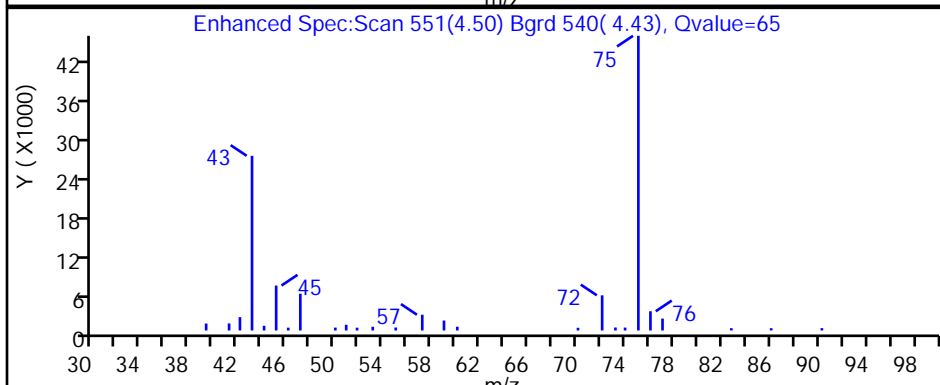
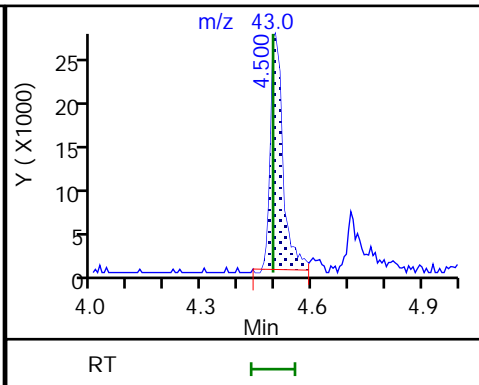
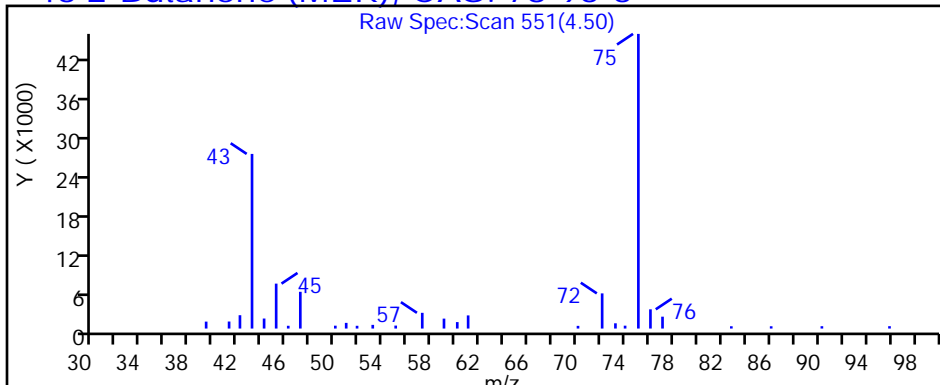
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

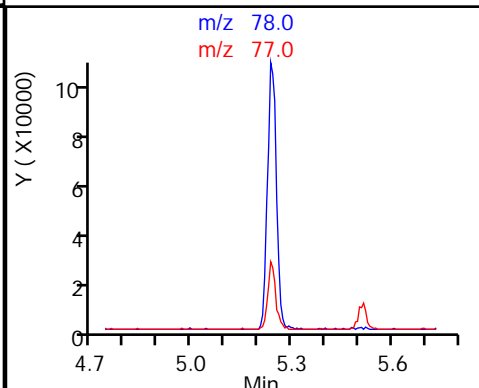
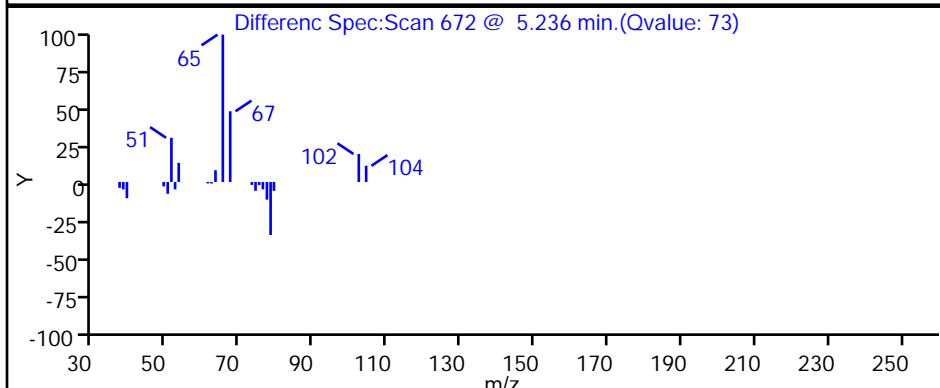
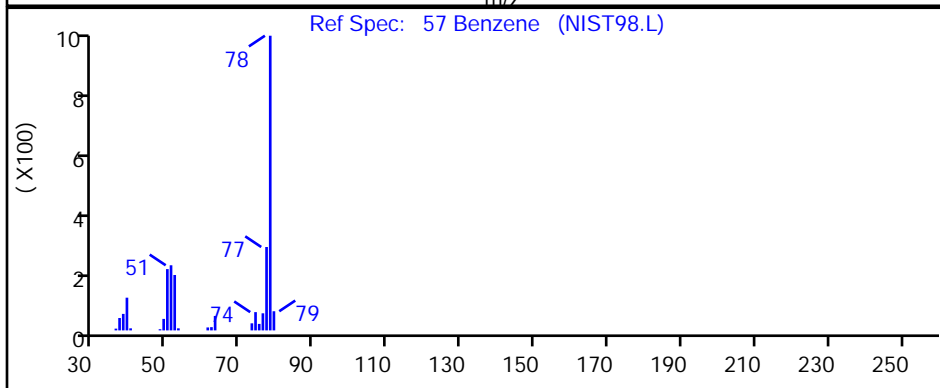
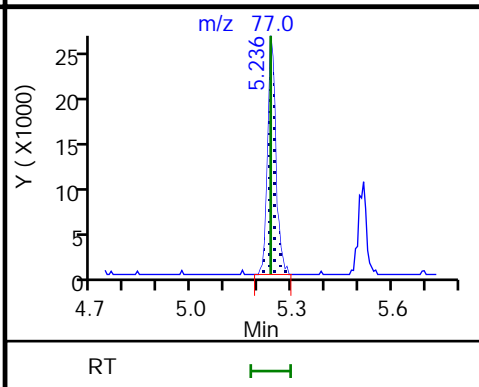
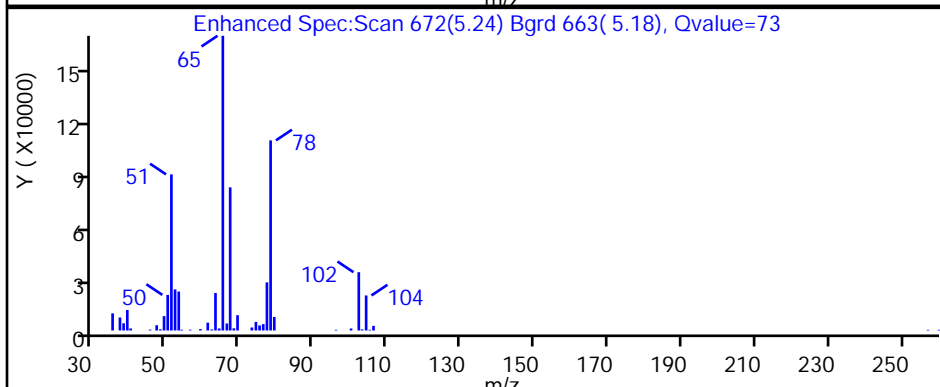
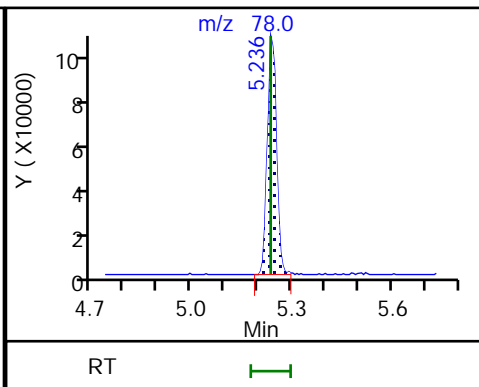
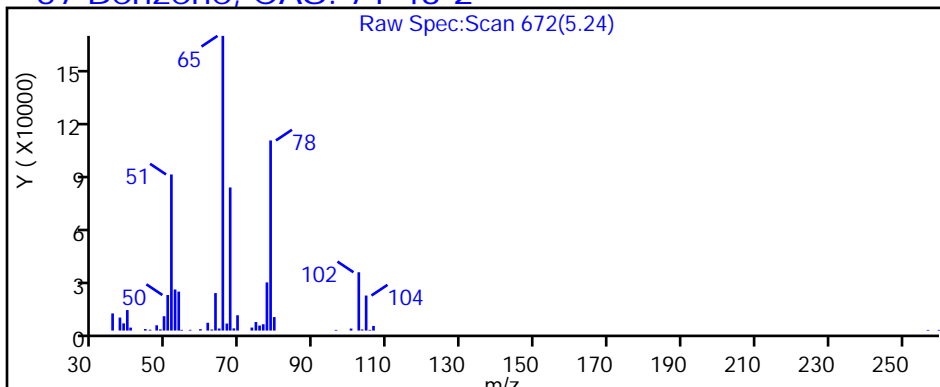
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

57 Benzene, CAS: 71-43-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

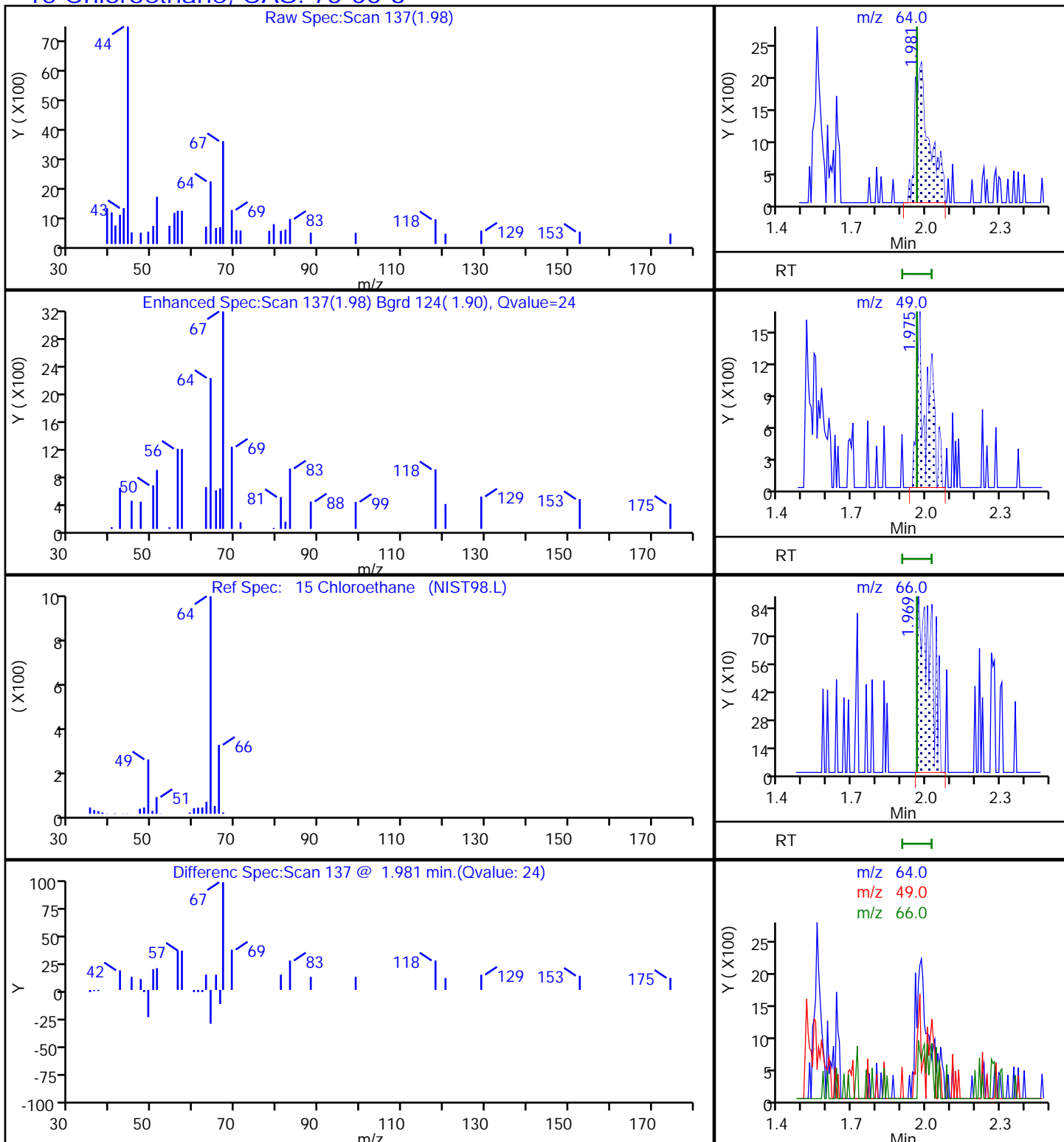
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

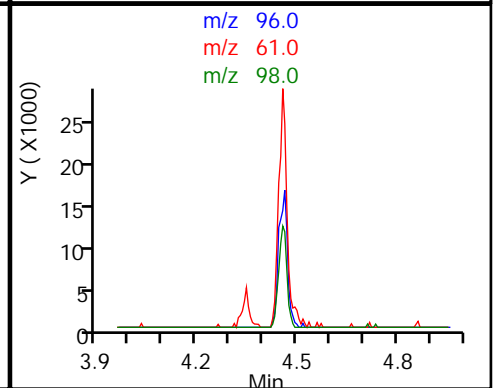
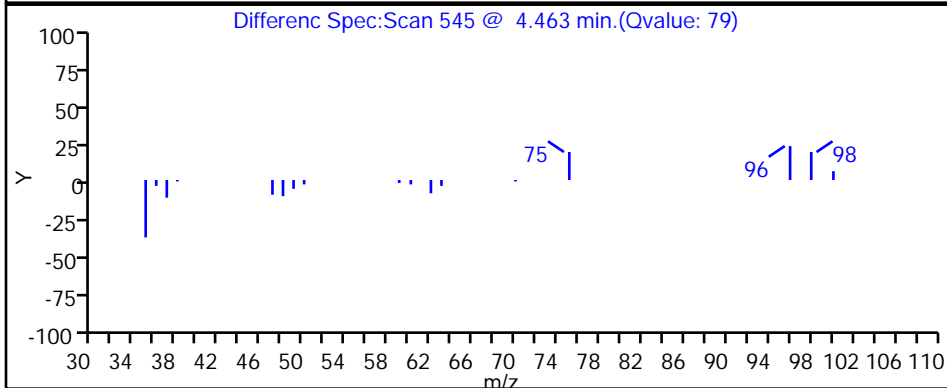
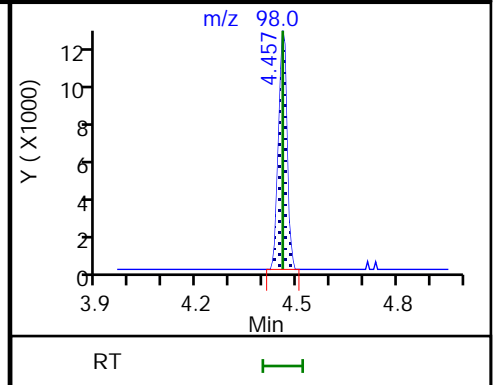
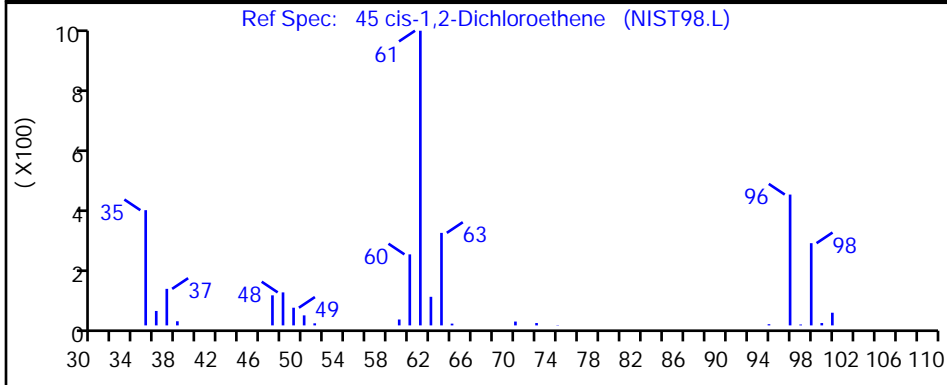
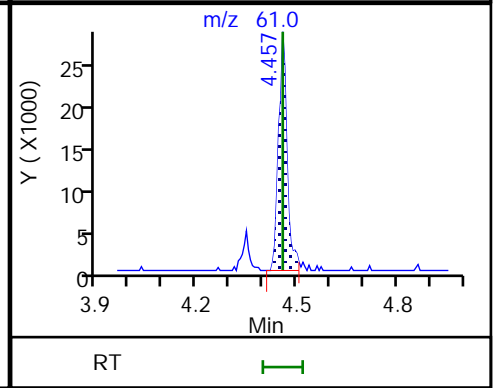
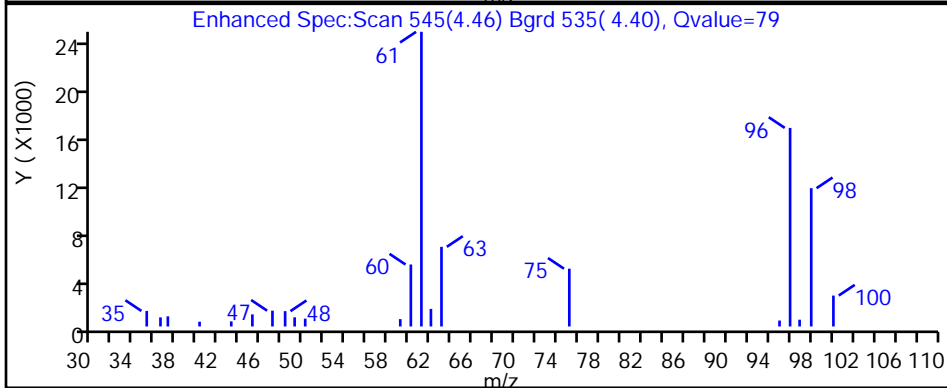
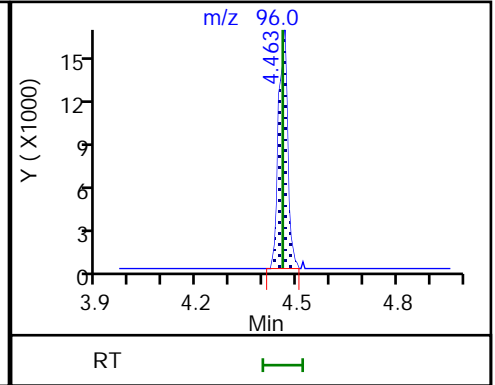
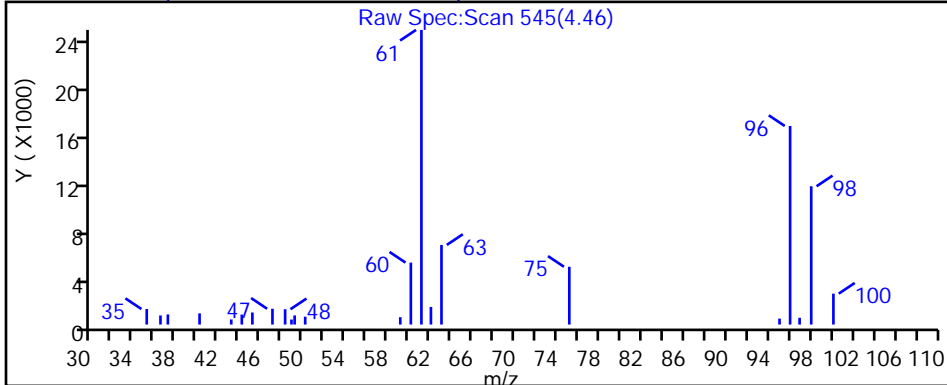
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

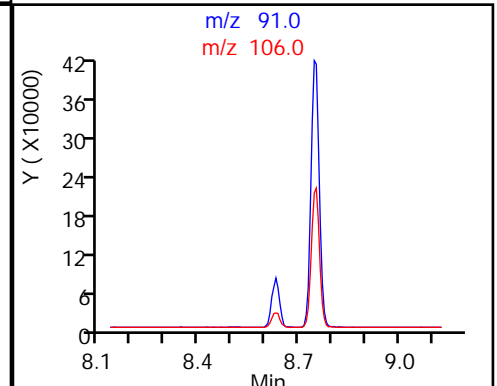
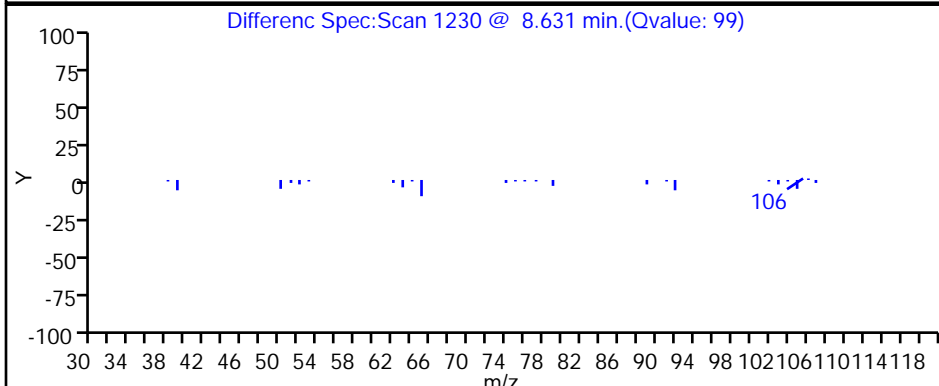
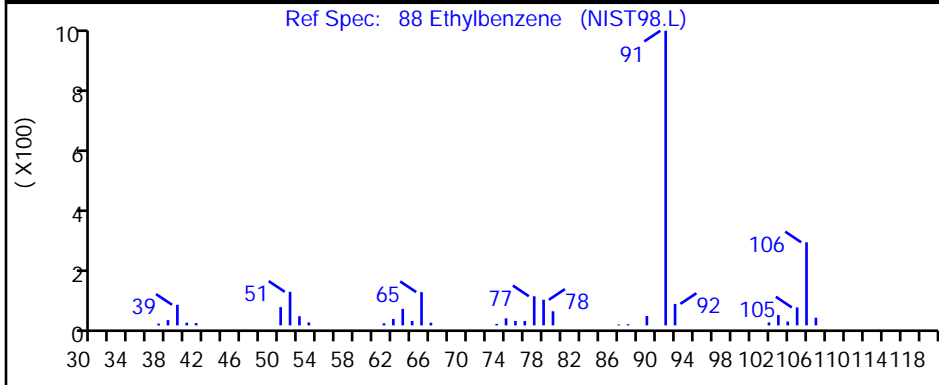
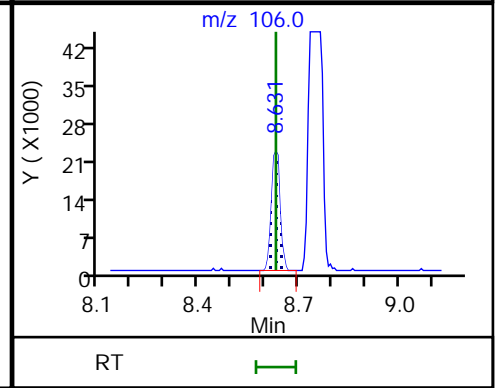
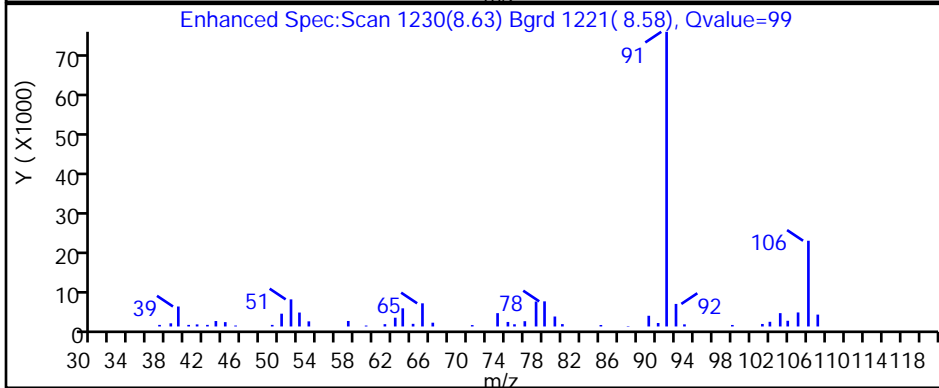
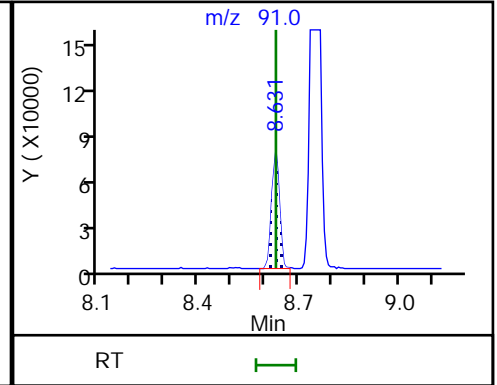
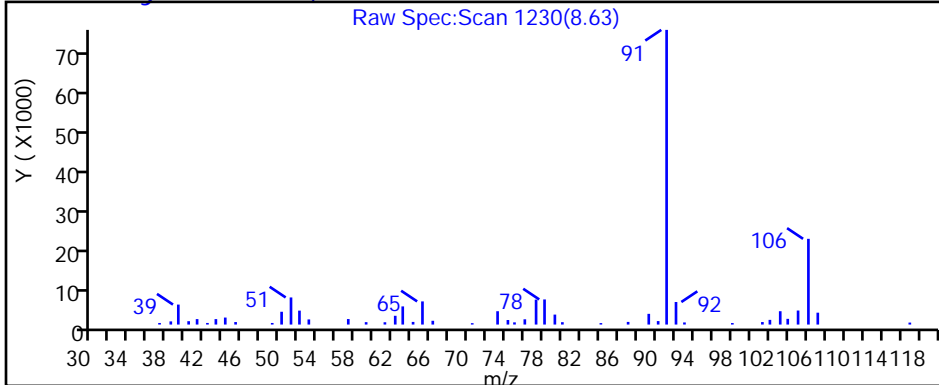
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

88 Ethylbenzene, CAS: 100-41-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23 Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

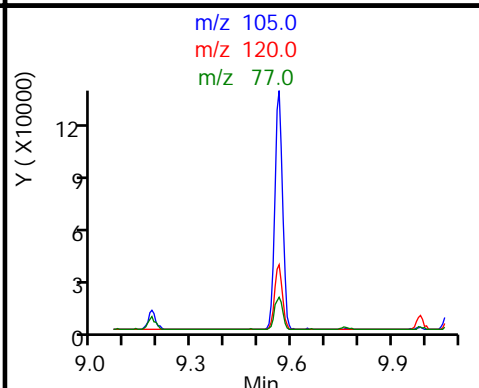
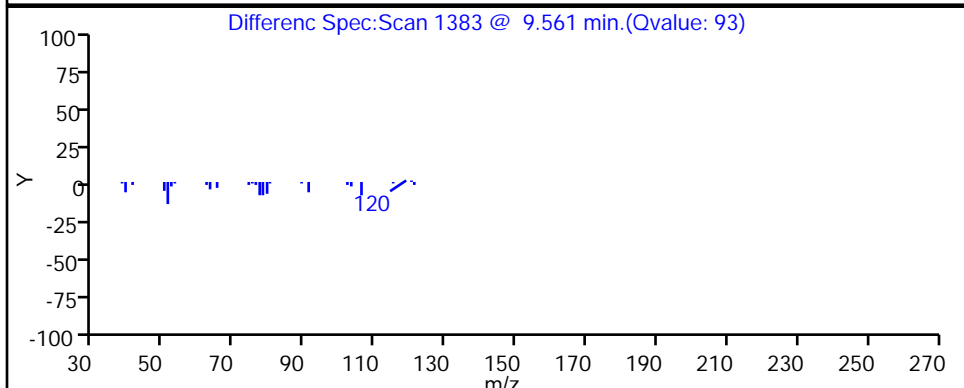
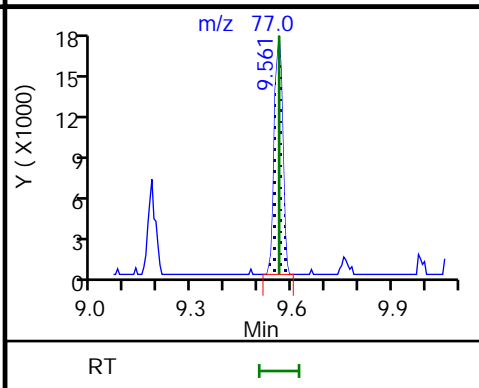
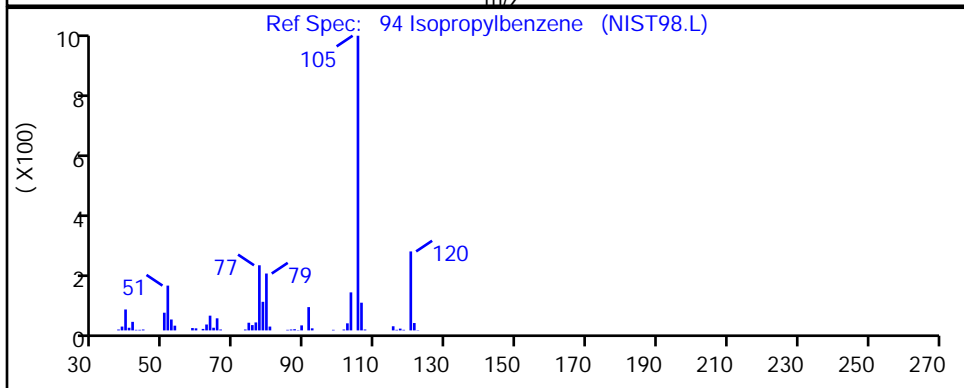
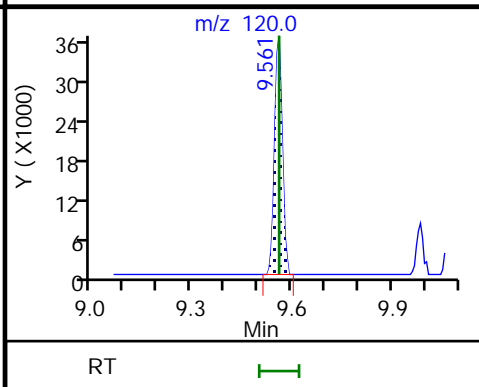
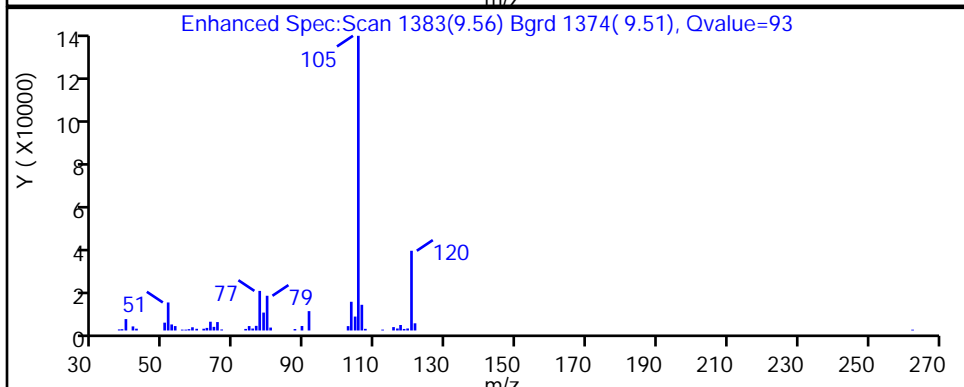
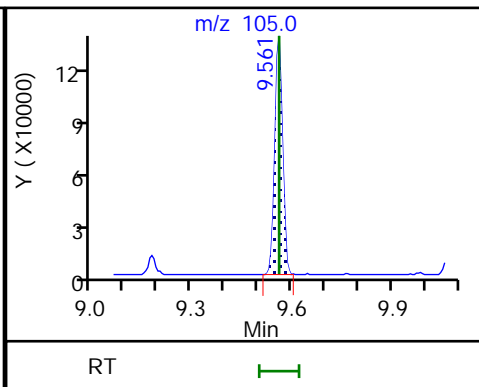
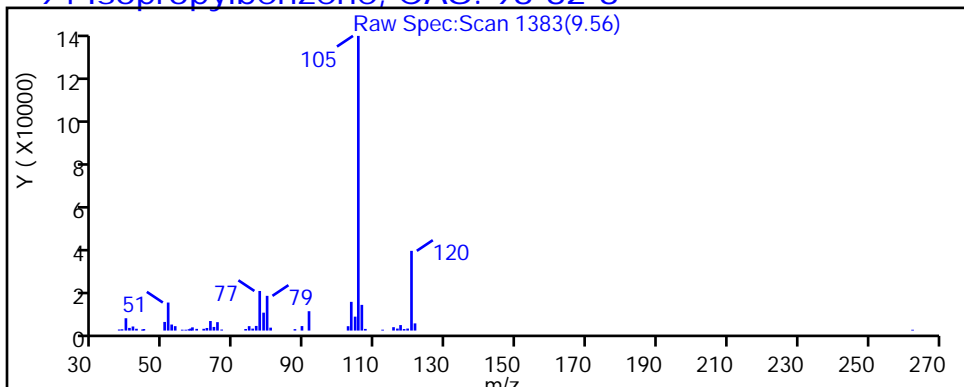
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

94 Isopropylbenzene, CAS: 98-82-8



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

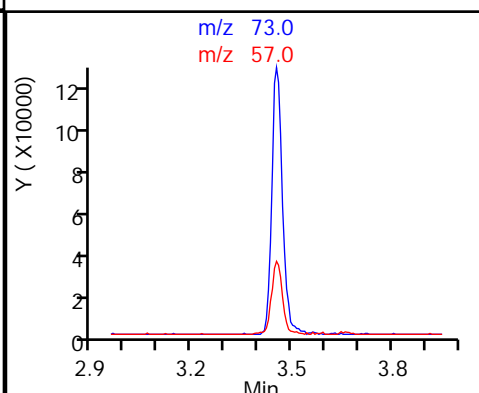
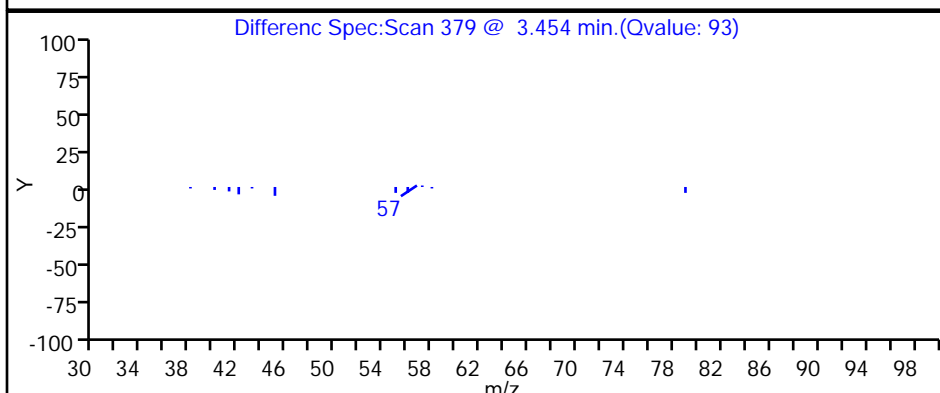
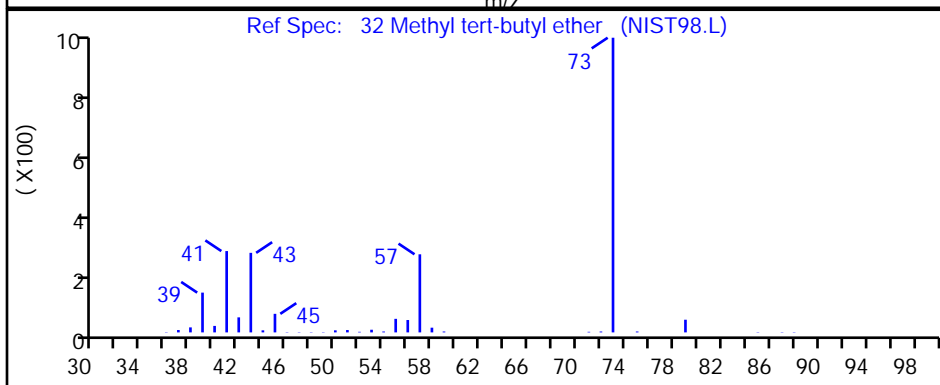
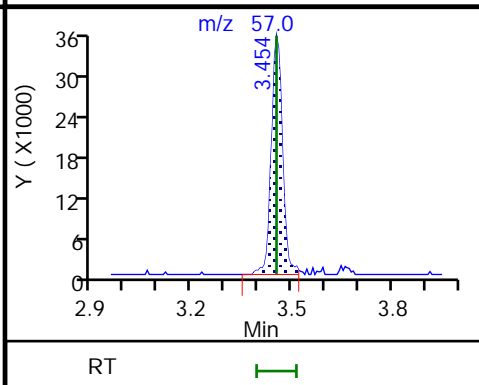
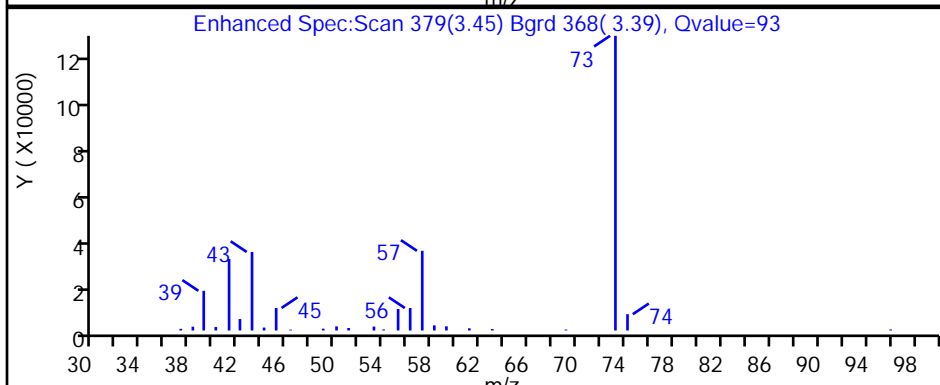
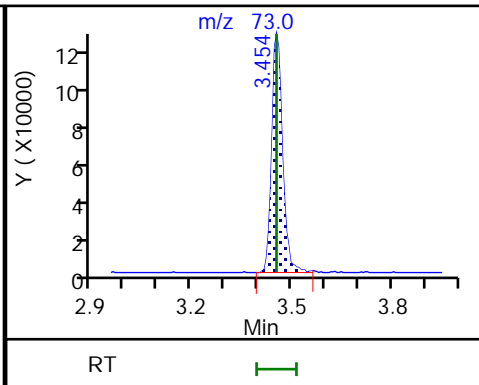
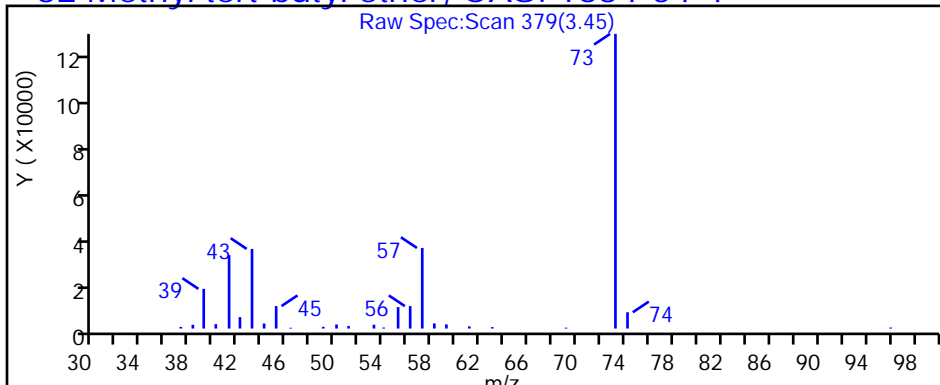
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

32 Methyl tert-butyl ether, CAS: 1634-04-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

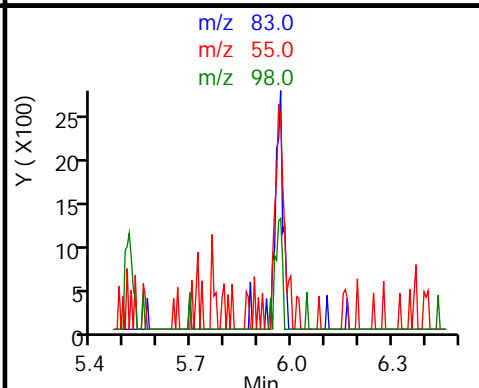
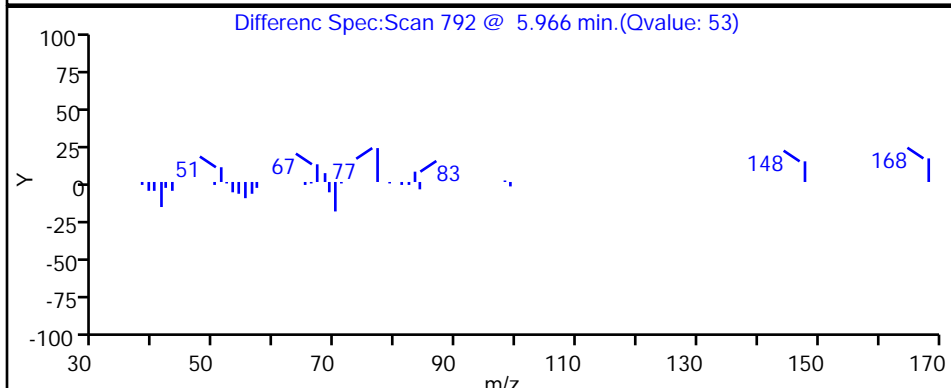
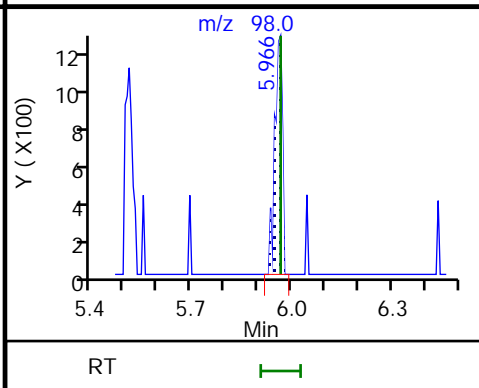
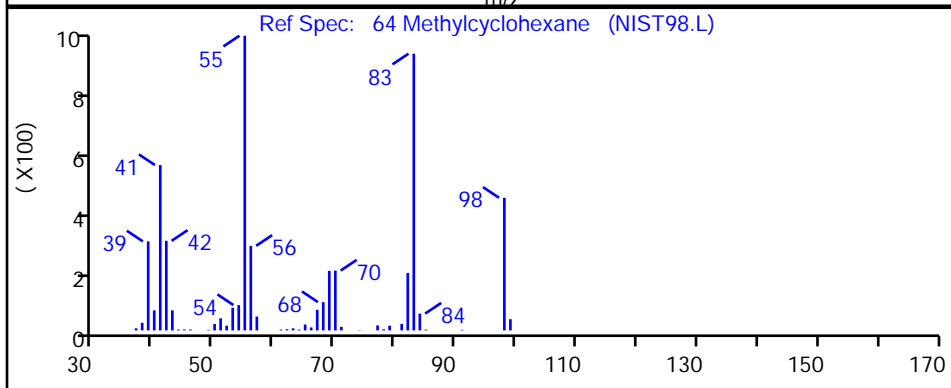
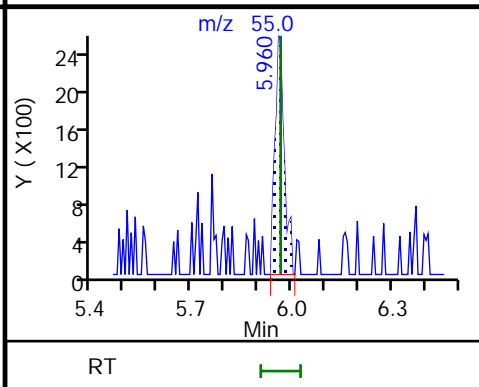
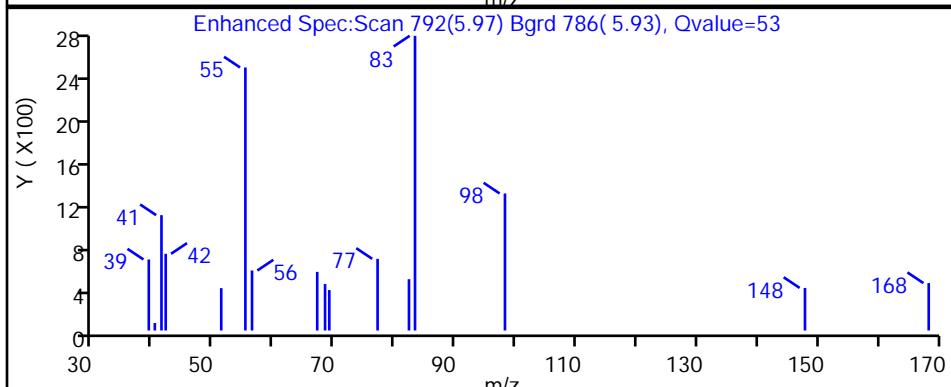
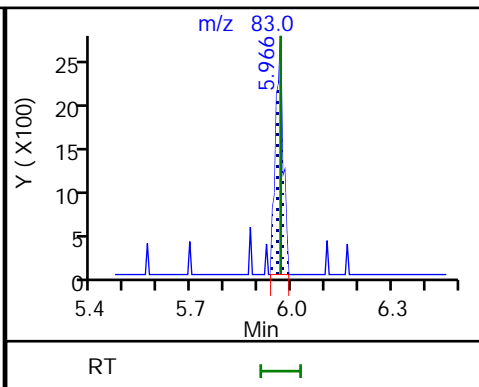
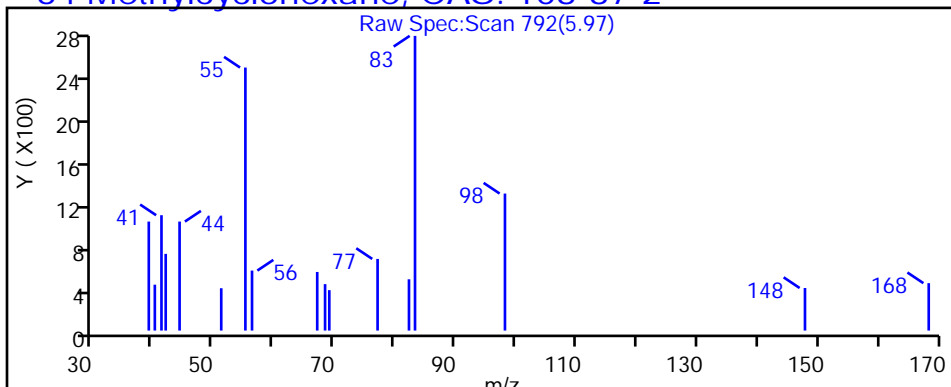
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

64 Methylcyclohexane, CAS: 108-87-2



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

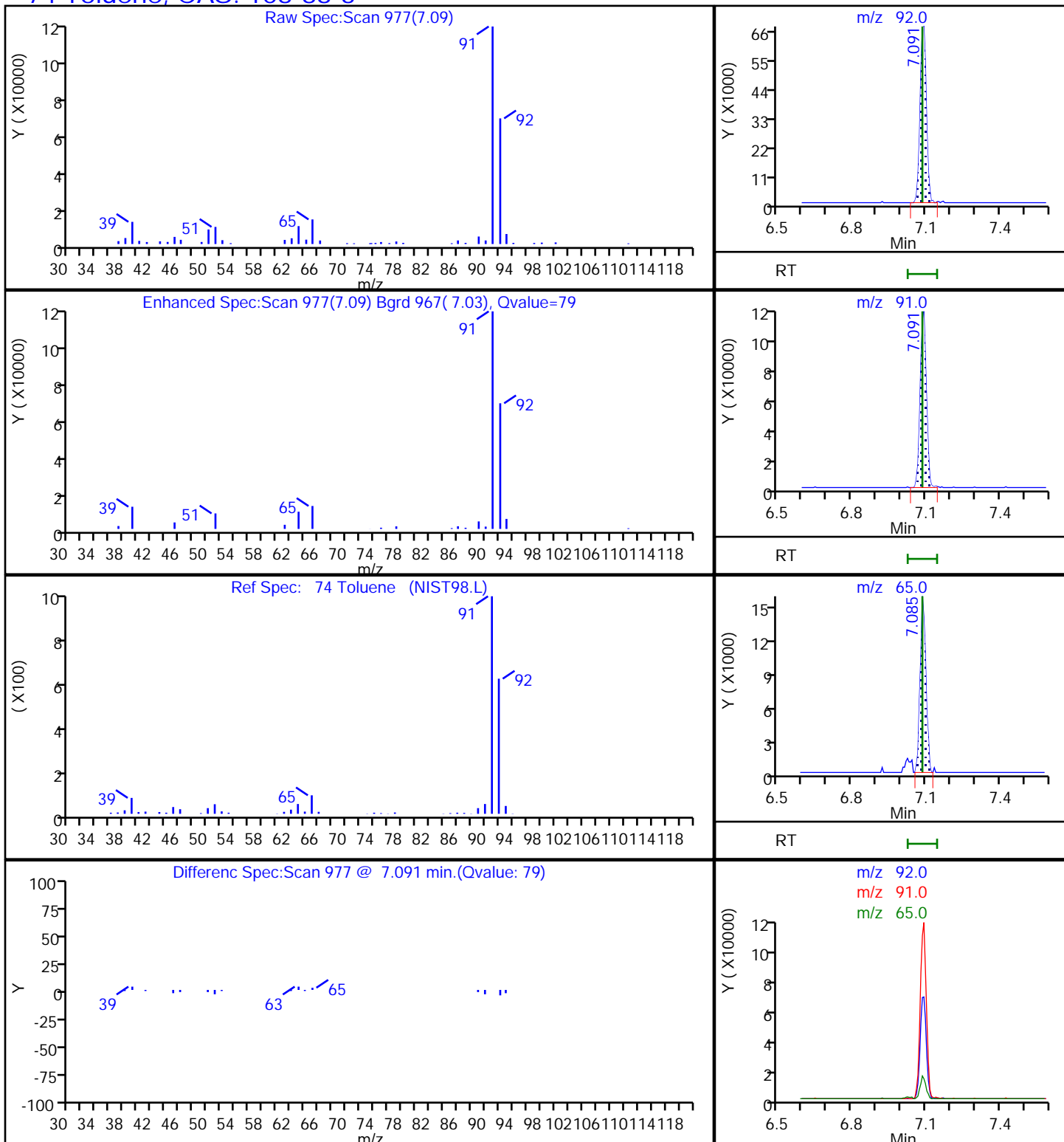
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

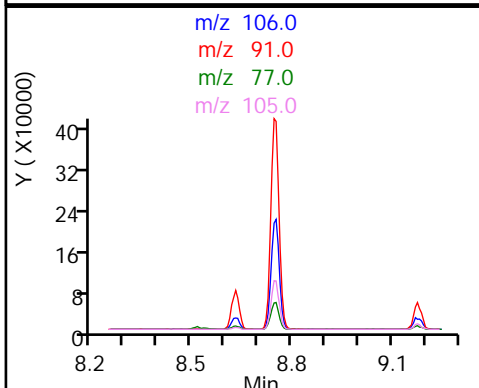
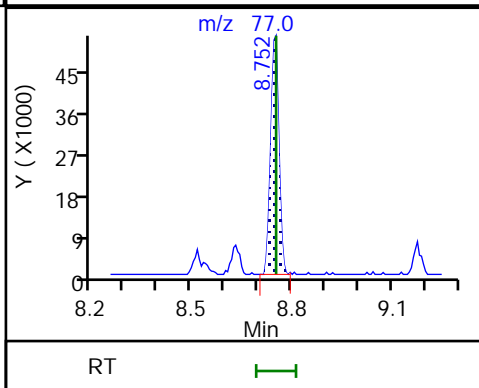
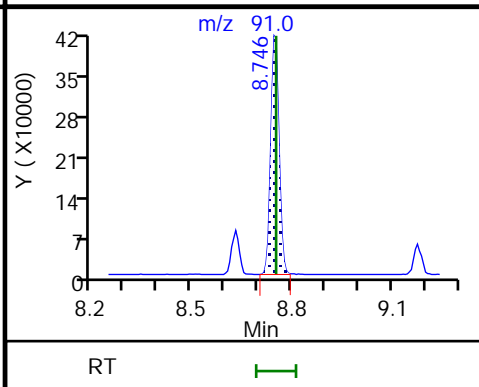
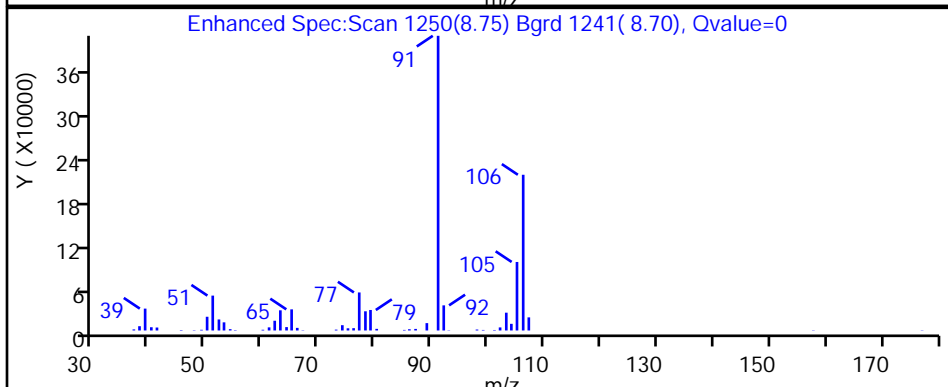
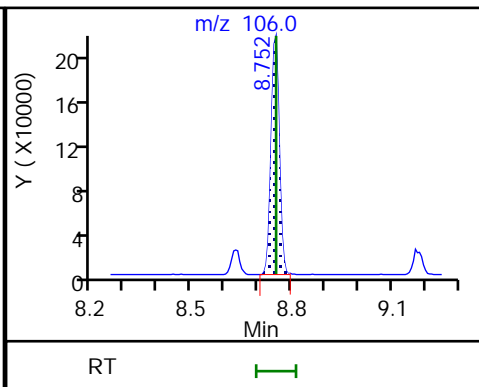
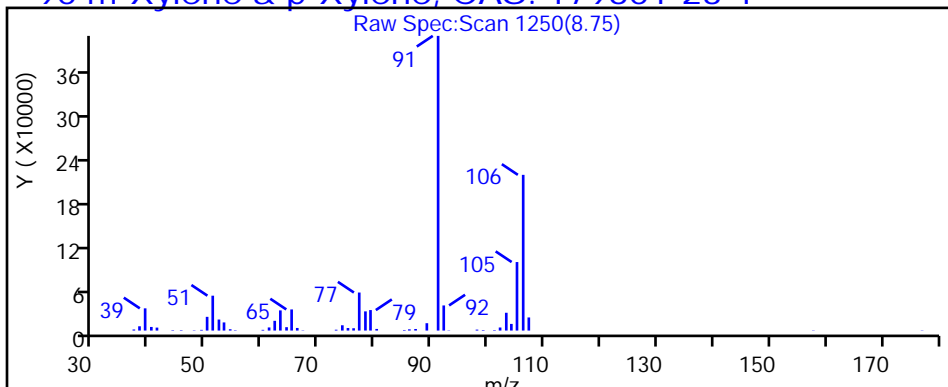
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

90 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23

Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

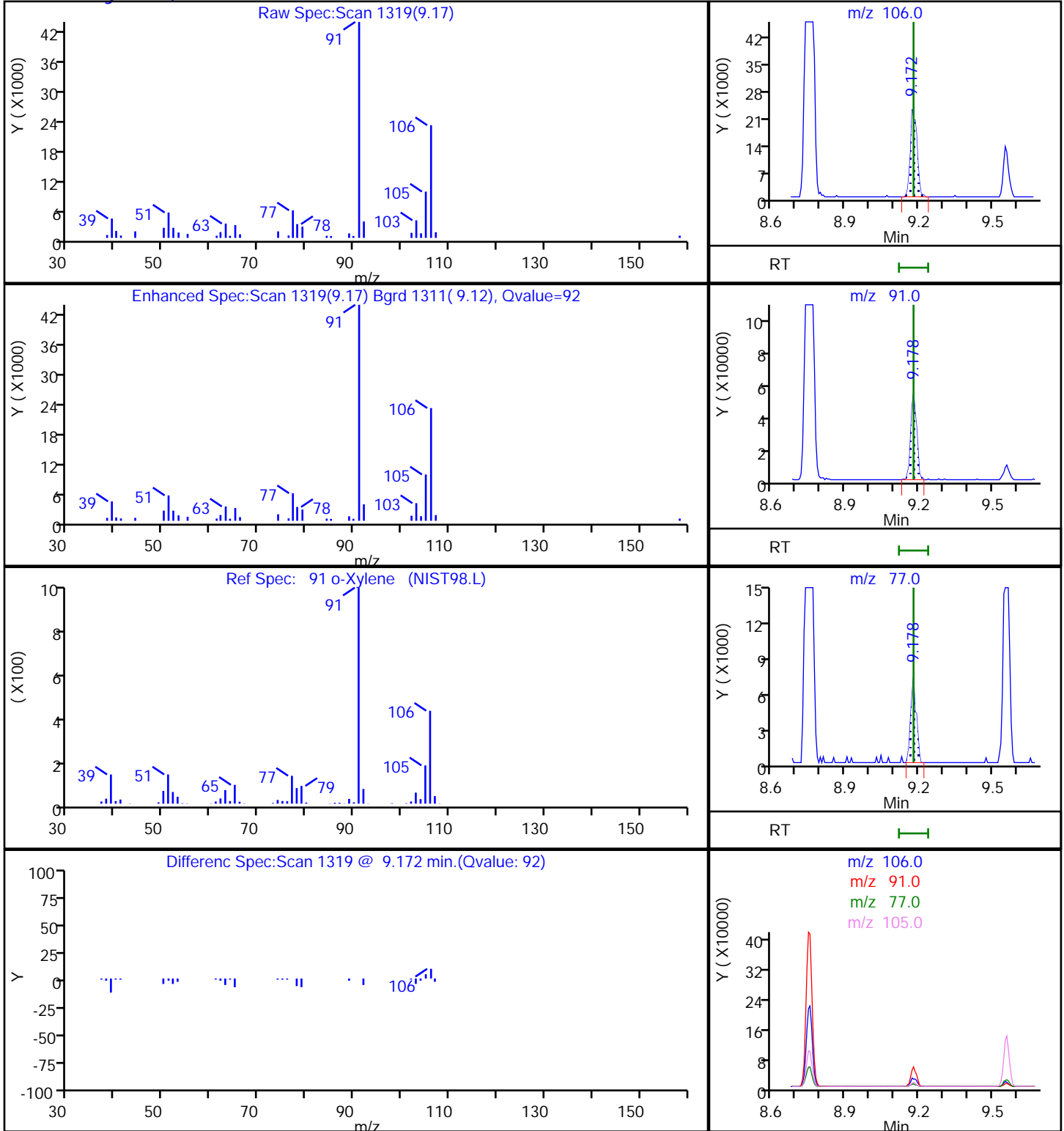
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

91 o-Xylene, CAS: 95-47-6

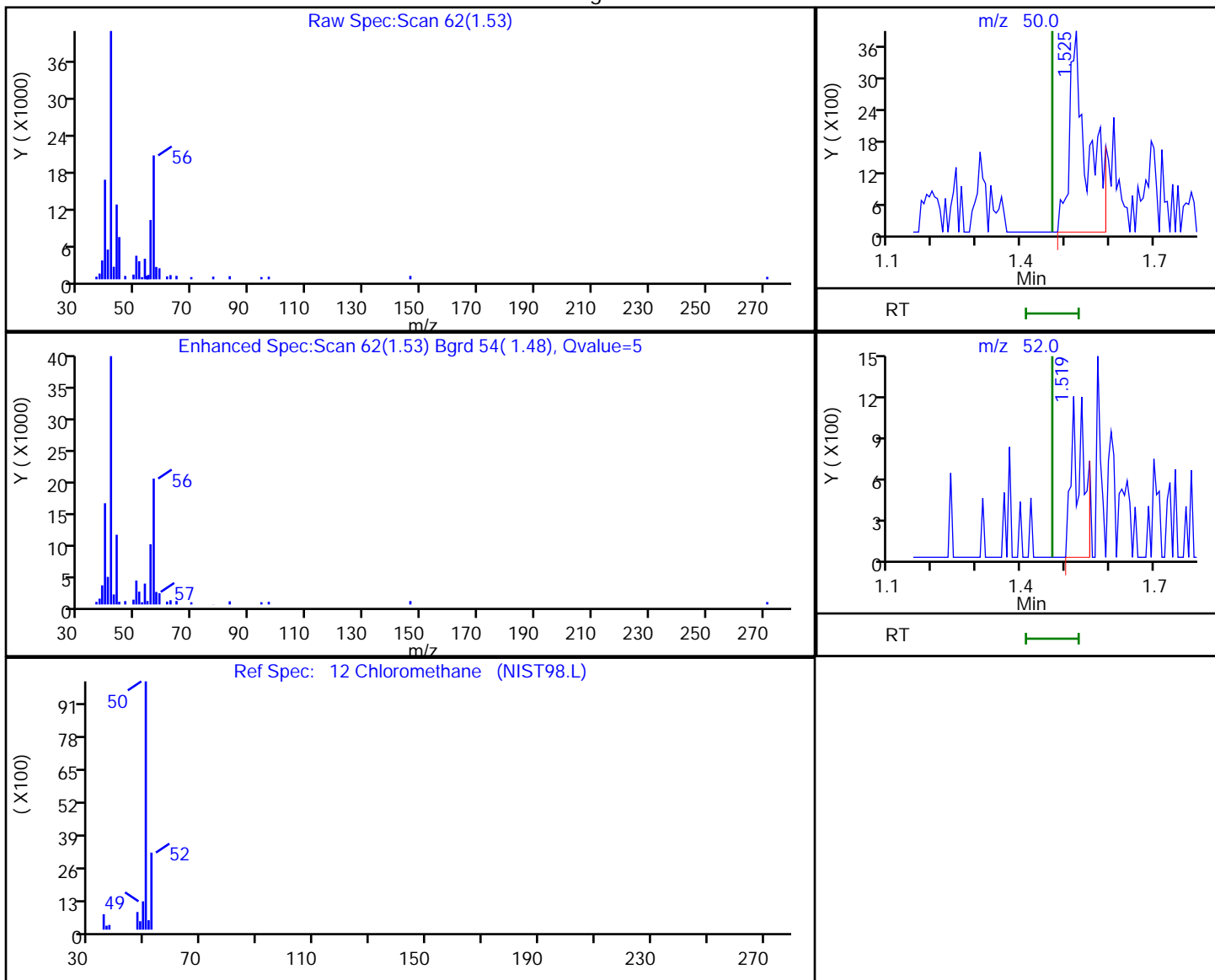


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D
 Injection Date: 23-Jun-2018 18:26:30 Instrument ID: HP5973S
 Lims ID: 480-137605-G-3 Lab Sample ID: 480-137605-3
 Client ID: ML-2-I
 Operator ID: RB ALS Bottle#: 23 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.53	50.00	10976	0.776277
1.52	52.00	2045	

Reviewer: nowakk, 24-Jun-2018 09:06:57

Audit Action: Marked Compound Undetected

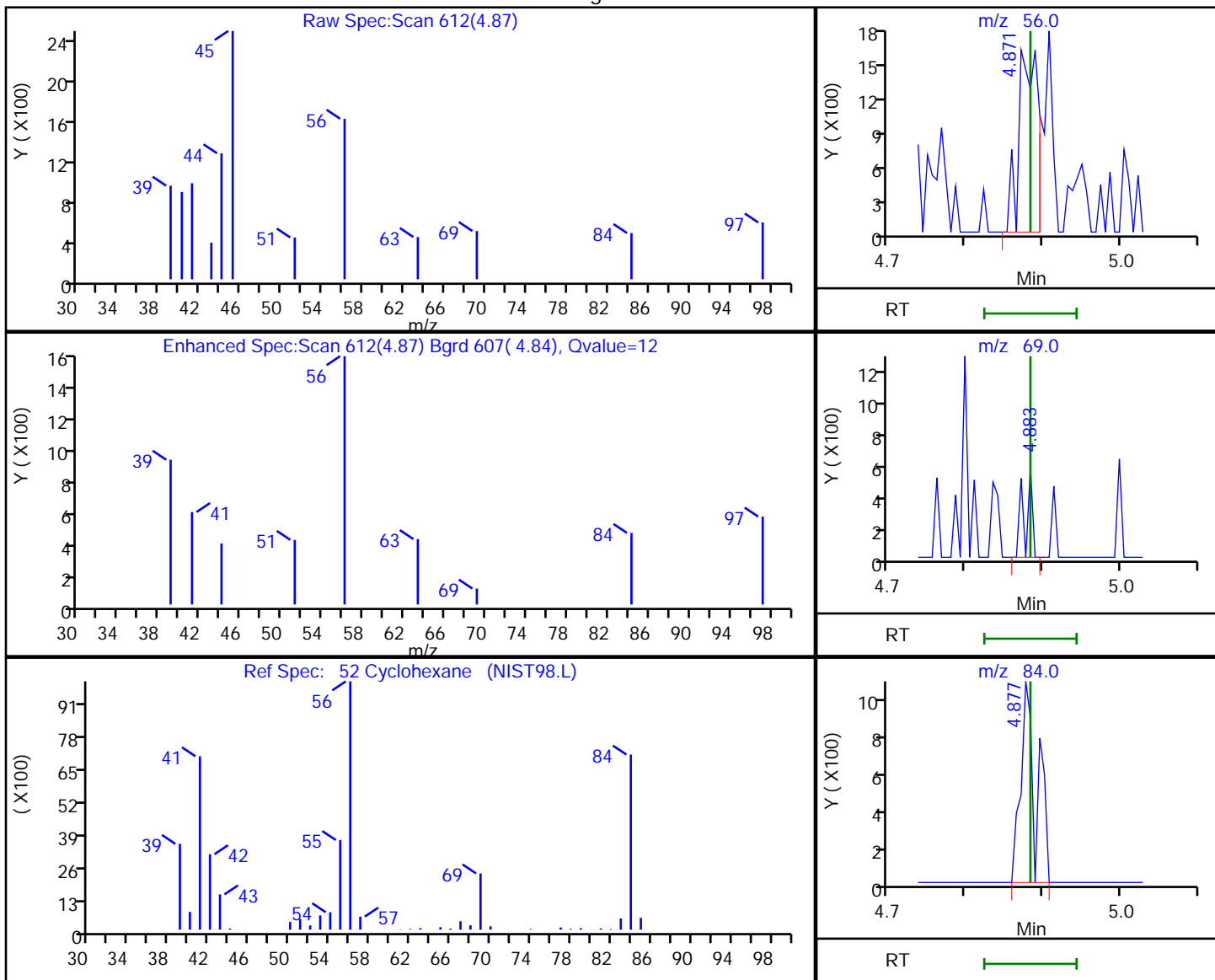
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D
 Injection Date: 23-Jun-2018 18:26:30 Instrument ID: HP5973S
 Lims ID: 480-137605-G-3 Lab Sample ID: 480-137605-3
 Client ID: ML-2-I
 Operator ID: RB ALS Bottle#: 23 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.87	56.00	2751	0.159801
4.88	69.00	371	
4.88	84.00	1472	

Reviewer: nowakk, 24-Jun-2018 09:07:08

Audit Action: Marked Compound Undetected

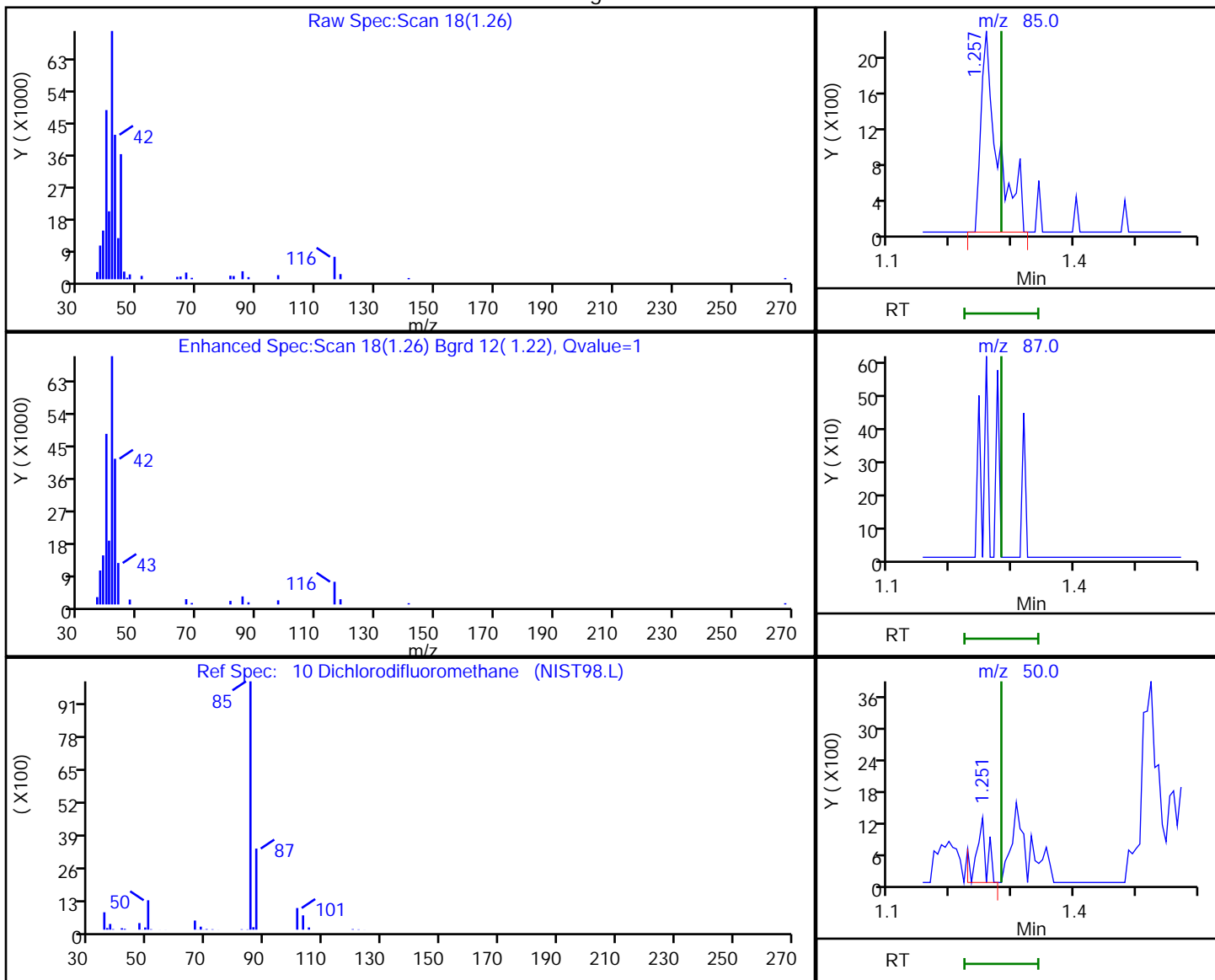
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D
 Injection Date: 23-Jun-2018 18:26:30 Instrument ID: HP5973S
 Lims ID: 480-137605-G-3 Lab Sample ID: 480-137605-3
 Client ID: ML-2-1
 Operator ID: RB ALS Bottle#: 23 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.26	85.00	4227	0.474843
1.28	87.00	0	
1.25	50.00	1460	

Reviewer: nowakk, 24-Jun-2018 09:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23 Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: S-8260

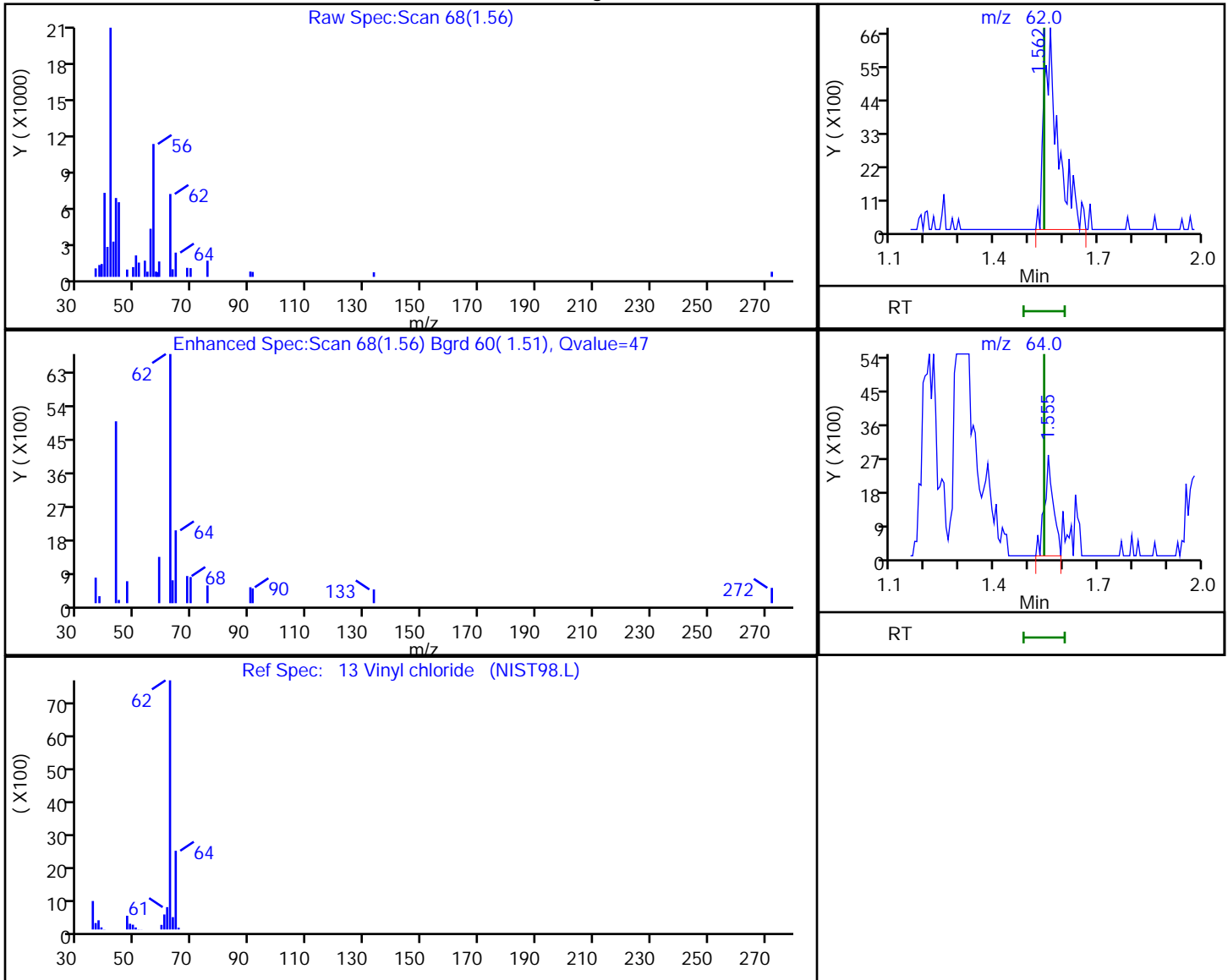
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.56	62.00	19398	1.542784
1.56	64.00	4815	

Reviewer: nowakk, 24-Jun-2018 09:07:01

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23 Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

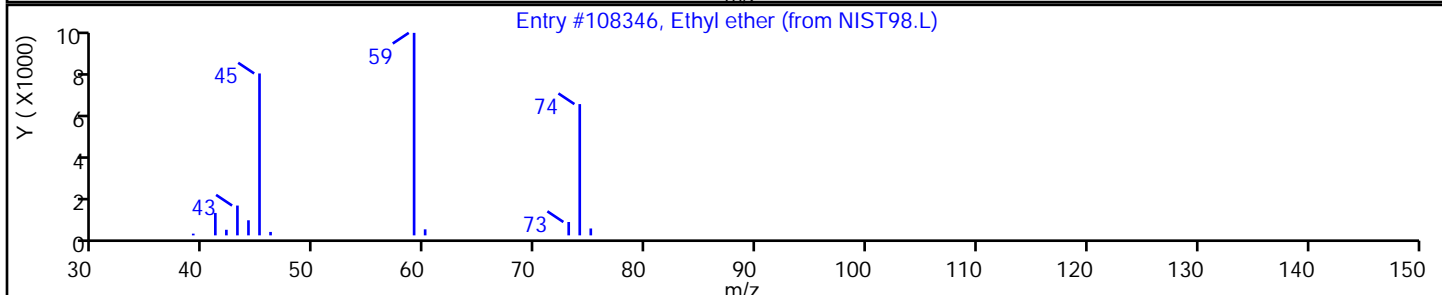
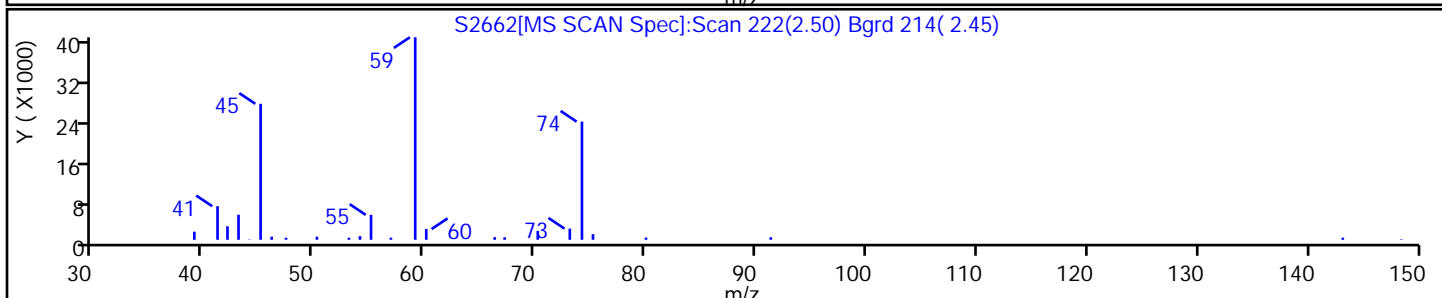
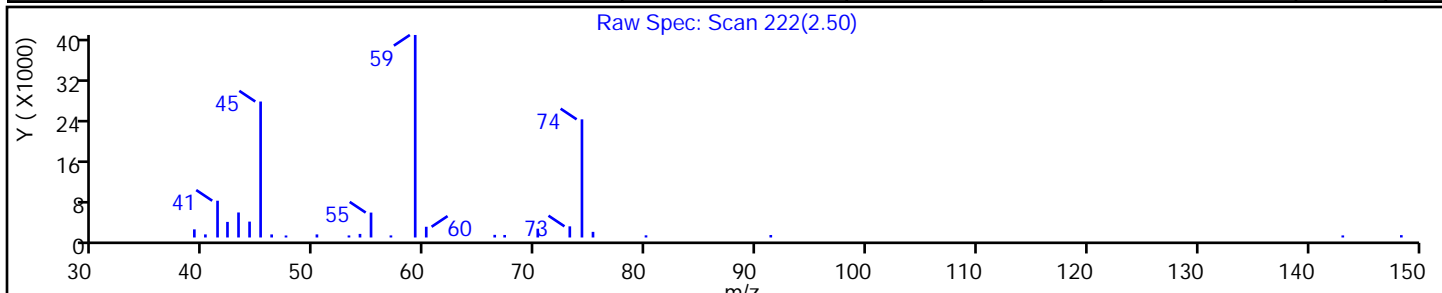
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Ethyl ether	60-29-7	NIST98.L	108346	C4H10O	74	86



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23 Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

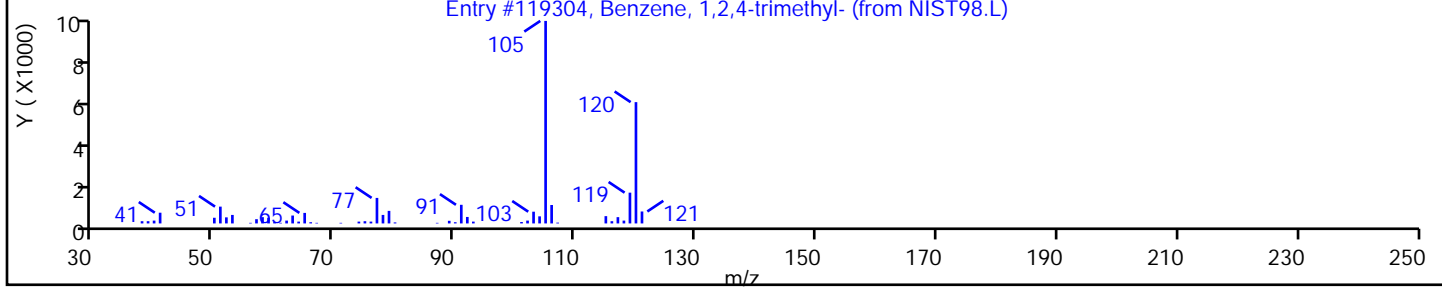
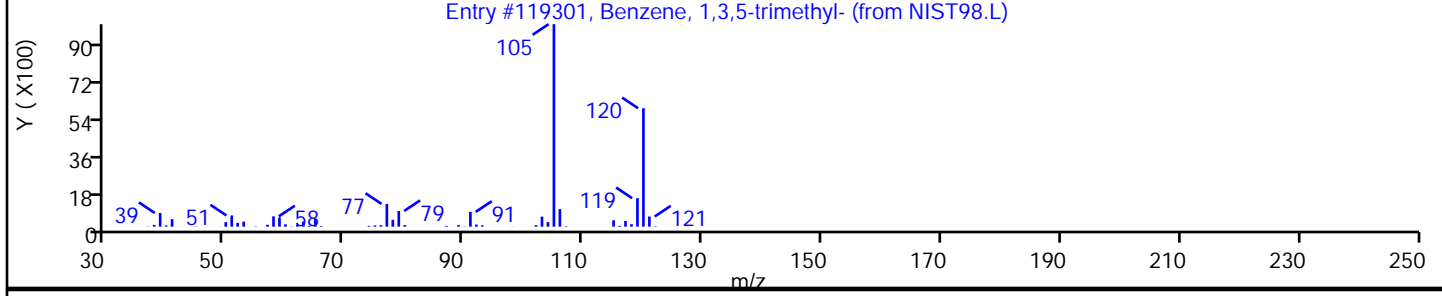
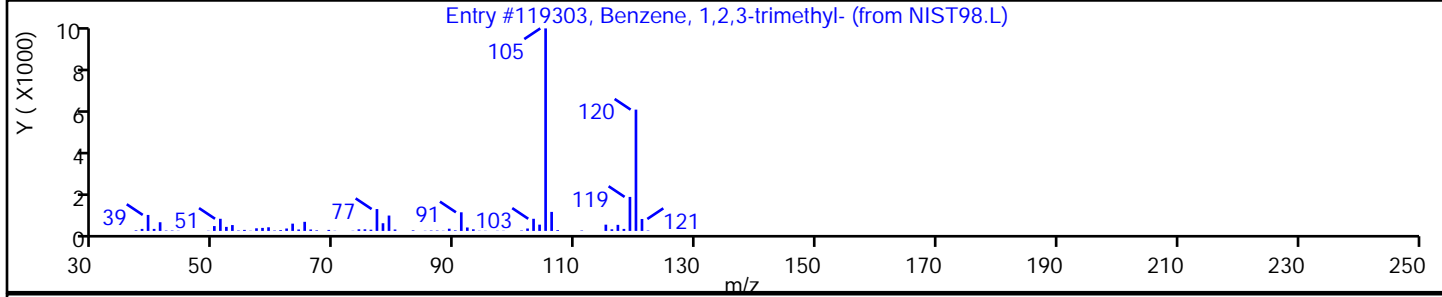
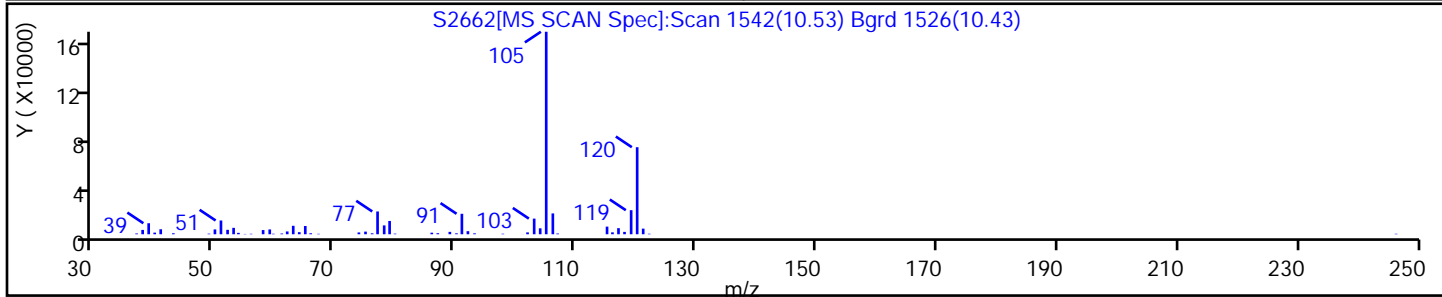
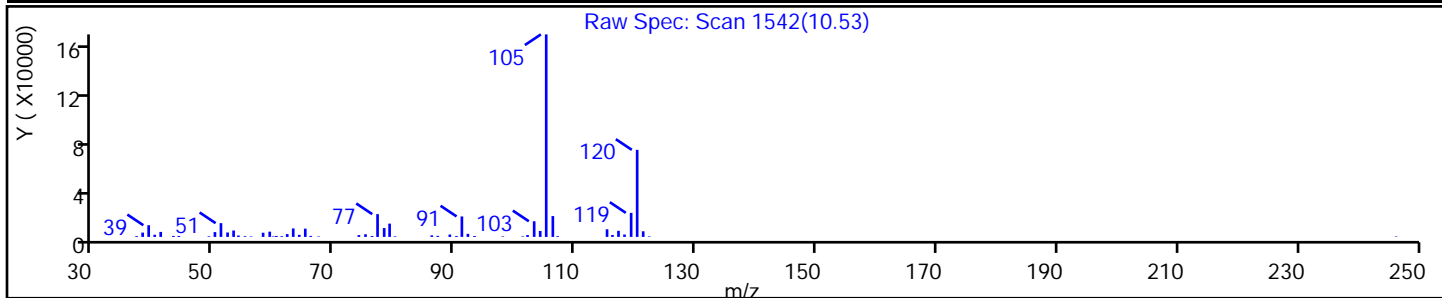
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST98.L	119303	C9H12	120	95
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119301	C9H12	120	94
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119304	C9H12	120	91



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2662.D

Injection Date: 23-Jun-2018 18:26:30

Instrument ID: HP5973S

Lims ID: 480-137605-G-3

Lab Sample ID: 480-137605-3

Client ID: ML-2-I

Operator ID: RB

ALS Bottle#: 23 Worklist Smp#: 30

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

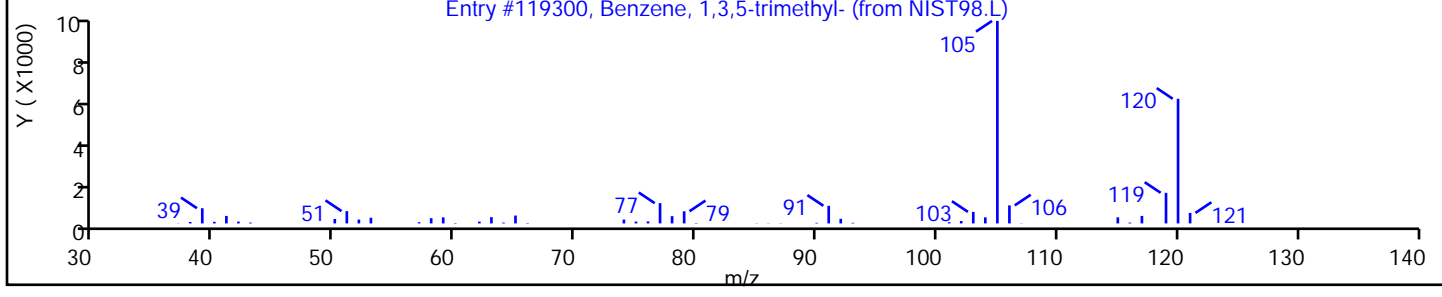
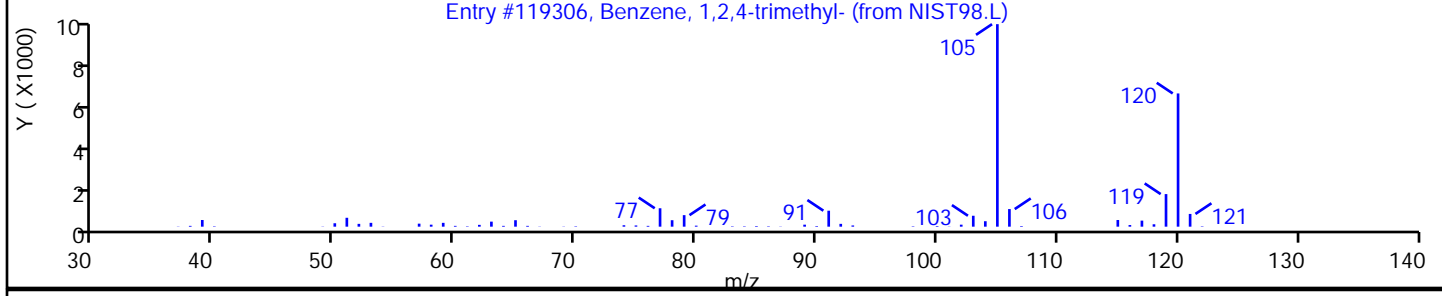
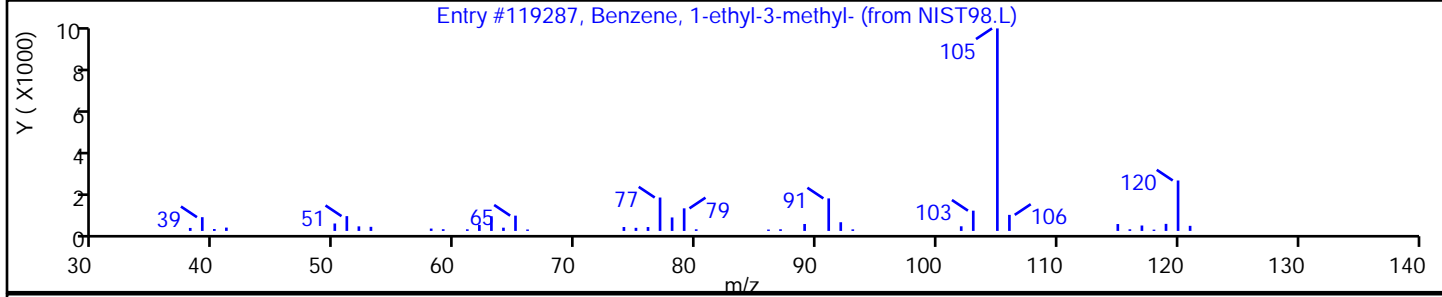
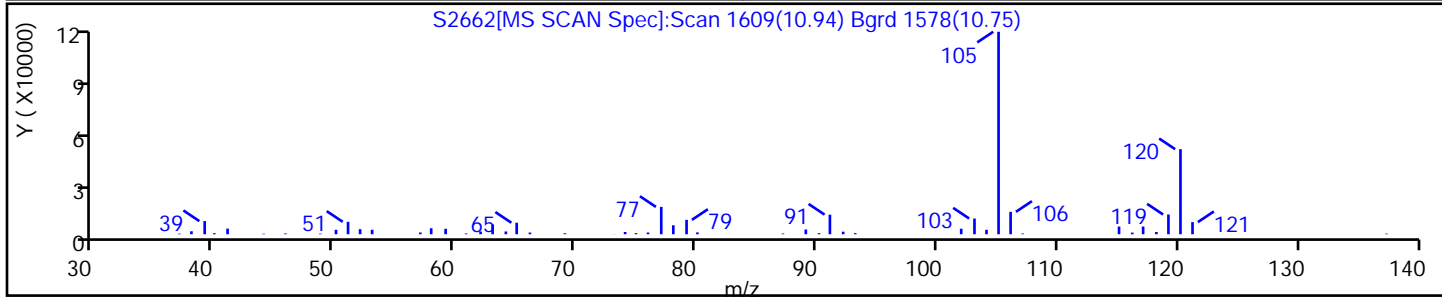
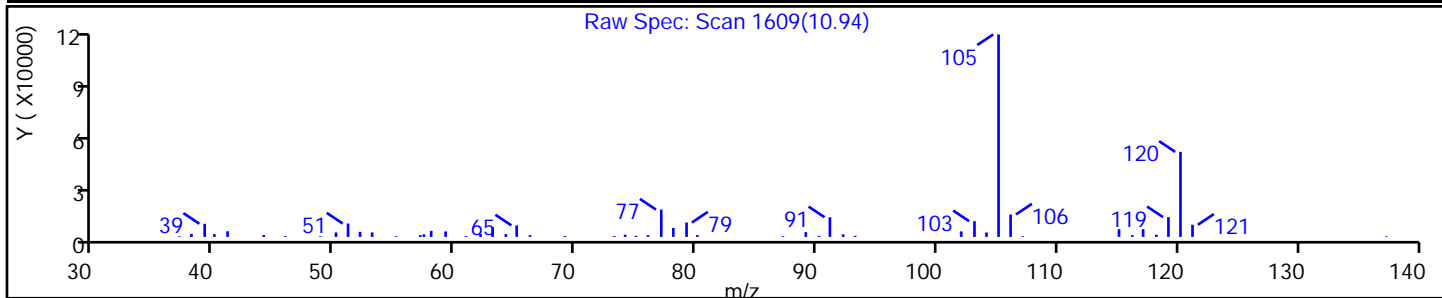
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST98.L	119287	C9H12	120	94
Benzene, 1,2,4-trimethyl-	95-63-6	NIST98.L	119306	C9H12	120	91
Benzene, 1,3,5-trimethyl-	108-67-8	NIST98.L	119300	C9H12	120	91



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: TB Lab Sample ID: 480-137605-4
 Matrix: Water Lab File ID: S2635.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	26		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: TB Lab Sample ID: 480-137605-4
 Matrix: Water Lab File ID: S2635.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: TB Lab Sample ID: 480-137605-4
 Matrix: Water Lab File ID: S2635.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 10

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
67-63-0	Isopropyl Alcohol	3.04	10	T J N	90%

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D
 Lims ID: 480-137605-A-4
 Client ID: TB
 Sample Type: Client
 Inject. Date: 23-Jun-2018 05:42:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-137605-A-4
 Misc. Info.: 480-0072570-023
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 14:24:03 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner Date: 23-Jun-2018 14:24:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.516	5.510	0.006	99	180532	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	373368	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	329686	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	67	222154	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.236	0.006	0	145427	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.024	7.025	0.000	93	893402	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	286640	25.7	
10 Dichlorodifluoromethane	85		1.282				ND	
12 Chloromethane	50		1.464				ND	U
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.872				ND	U
15 Chloroethane	64		1.981				ND	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.705				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43	2.845	2.863	0.000	95	91455	26.3	
26 Carbon disulfide	76		2.918				ND	
27 Methyl acetate	43		3.143				ND	
30 Methylene Chloride	84		3.253				ND	
32 Methyl tert-butyl ether	73		3.454				ND	
34 trans-1,2-Dichloroethene	96		3.466				ND	
39 1,1-Dichloroethane	63		3.898				ND	
45 cis-1,2-Dichloroethene	96		4.451				ND	
43 2-Butanone (MEK)	43	4.512	4.512	0.018	49	5341	1.00	a
50 Chloroform	83		4.774				ND	
51 1,1,1-Trichloroethane	97		4.877				ND	
52 Cyclohexane	56		4.877				ND	
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78		5.236				ND	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	1	1545	0.0998	a
62 Trichloroethene	95		5.851				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.966				ND	
65 1,2-Dichloropropane	63		6.094				ND	
68 Dichlorobromomethane	83		6.386				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK)	43	6.945	6.945	-0.007	1	3148	0.2641	a
74 Toluene	92	7.085	7.092	-0.001	56	6857	0.2763	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.621				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.540				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106		9.178				ND	
92 Styrene	104		9.209				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105		9.562				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo
Tentatively Identified Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D
 Lims ID: 480-137605-A-4
 Client ID: TB
 Sample Type: Client
 Inject. Date: 23-Jun-2018 05:42:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-137605-A-4
 Misc. Info.: 480-0072570-023
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 14:24:03 Calib Date: 20-Jun-2018 20:51:30
 Tic RT Window: 1.500 -0.000 Response: area
 Quant By: Nearest ISTD Quant LOD: 10.00000
 MS Library: \\ChromNA\Buffalo\Database\NIST98.L
 Min. Match: 85
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013
 First Level Reviewer: baroner Date: 23-Jun-2018 14:24:03

Tentative Identified Compound Results

RT	Area	Amount ug/L	Quant Cpd	Qual	Lib Entry	Molecular Formula	Mol. Weight	Flags
3.040	836272	10.2	153	90	11521	C3H8O	60	

Quantitation Compounds

Compound	RT	Area	Amount ug/L
* 153 Fluorobenzene (IS)	5.510	2052525	25.0

QC Flag Legend

Processing Flags

Reagents:

S_8260_IS_00292 Amount Added: 1.00 Units: uL Run Reagent
 S_8260_Surr_00271 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D

Injection Date: 23-Jun-2018 05:42:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: 480-137605-A-4

Lab Sample ID: 480-137605-4

Worklist Smp#: 23

Client ID: TB

Purge Vol: 5.000 mL

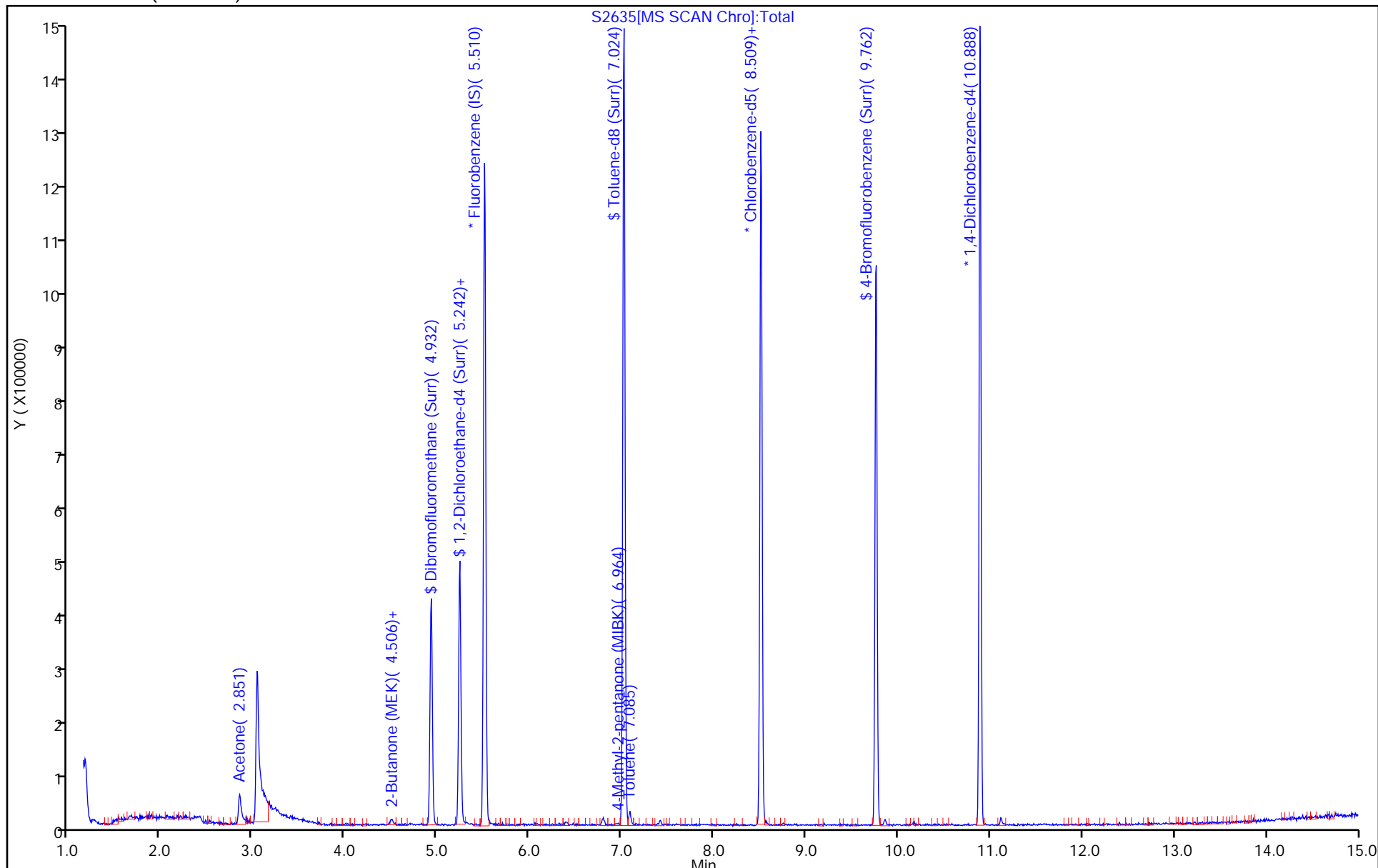
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D

Injection Date: 23-Jun-2018 05:42:30

Instrument ID: HP5973S

Lims ID: 480-137605-A-4

Lab Sample ID: 480-137605-4

Client ID: TB

Operator ID: kn

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

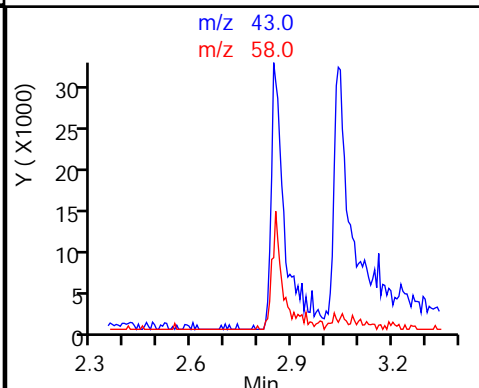
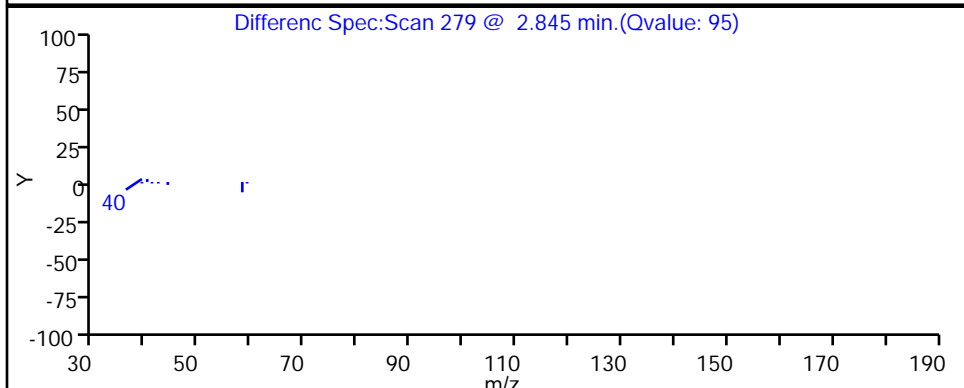
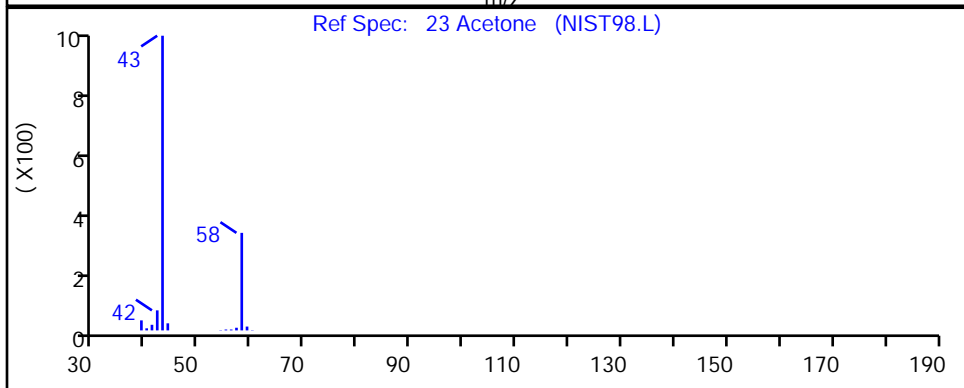
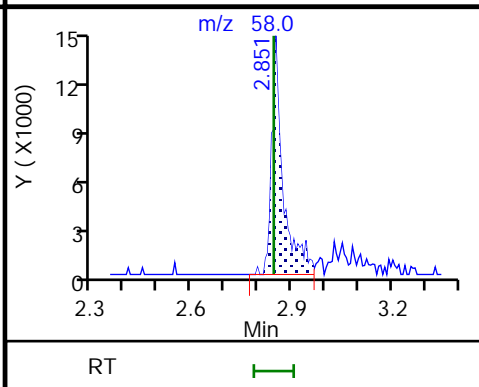
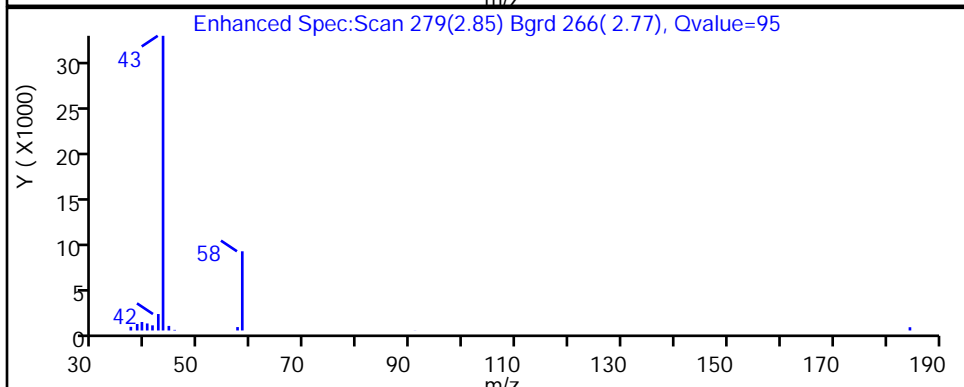
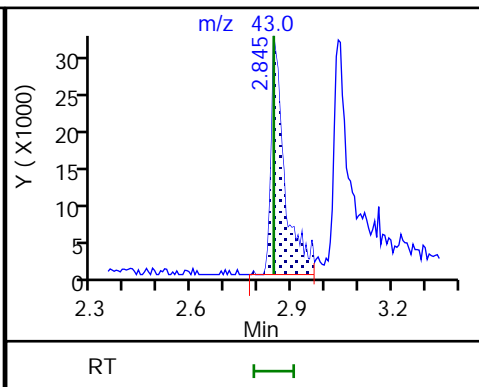
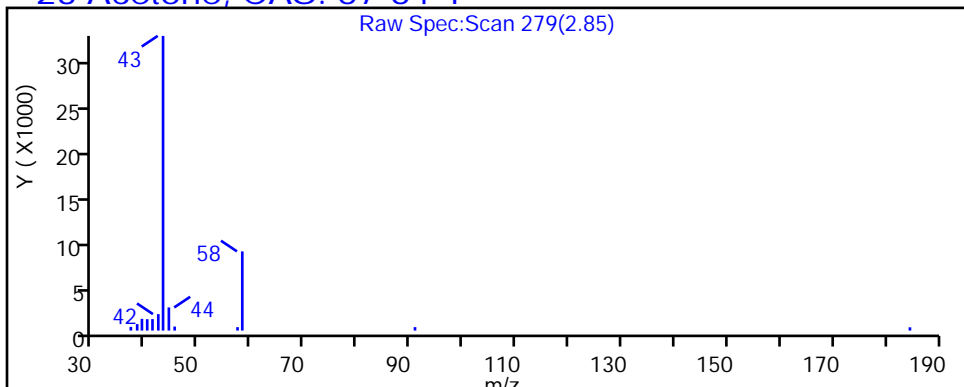
Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



TestAmerica Buffalo

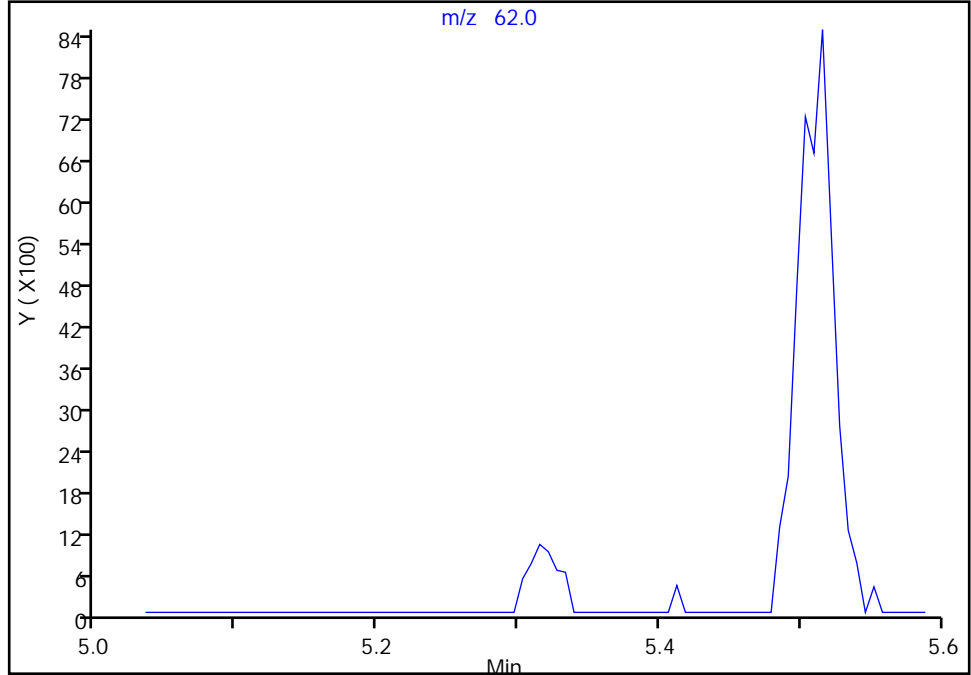
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D
Injection Date: 23-Jun-2018 05:42:30 Instrument ID: HP5973S
Lims ID: 480-137605-A-4 Lab Sample ID: 480-137605-4
Client ID: TB
Operator ID: kn ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

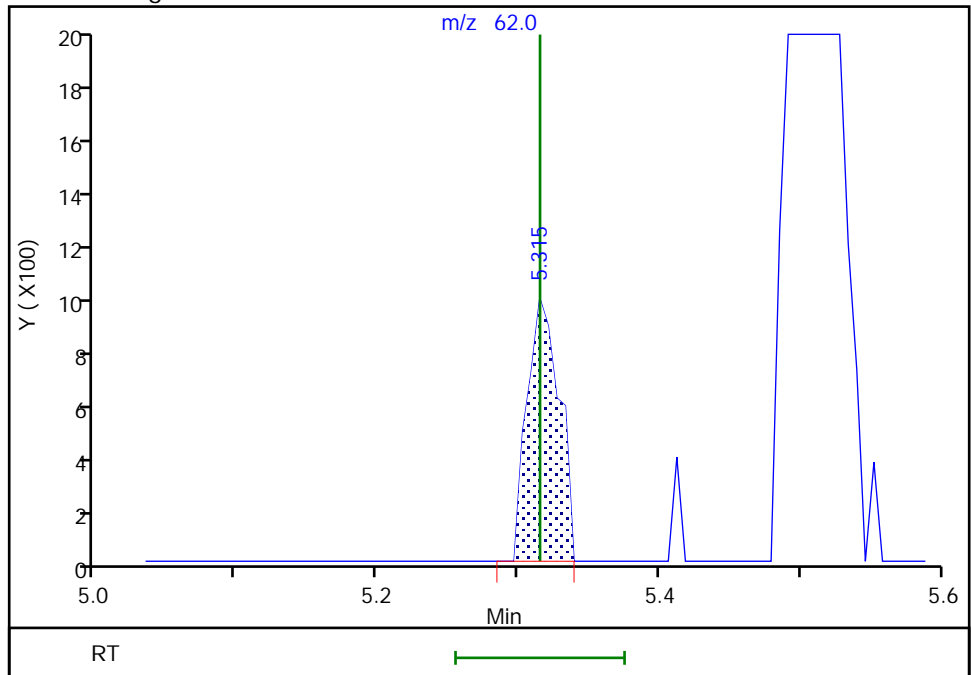
Not Detected
Expected RT: 5.32

Processing Integration Results



Manual Integration Results

RT: 5.32
Area: 1545
Amount: 0.099846
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:23:38
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

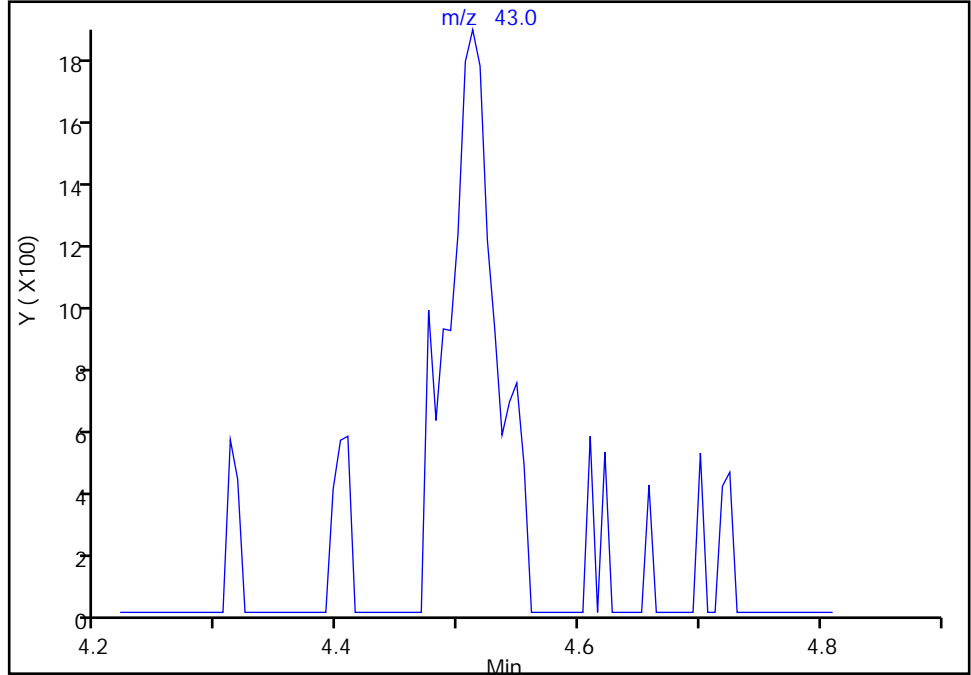
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D
Injection Date: 23-Jun-2018 05:42:30 Instrument ID: HP5973S
Lims ID: 480-137605-A-4 Lab Sample ID: 480-137605-4
Client ID: TB
Operator ID: kn ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

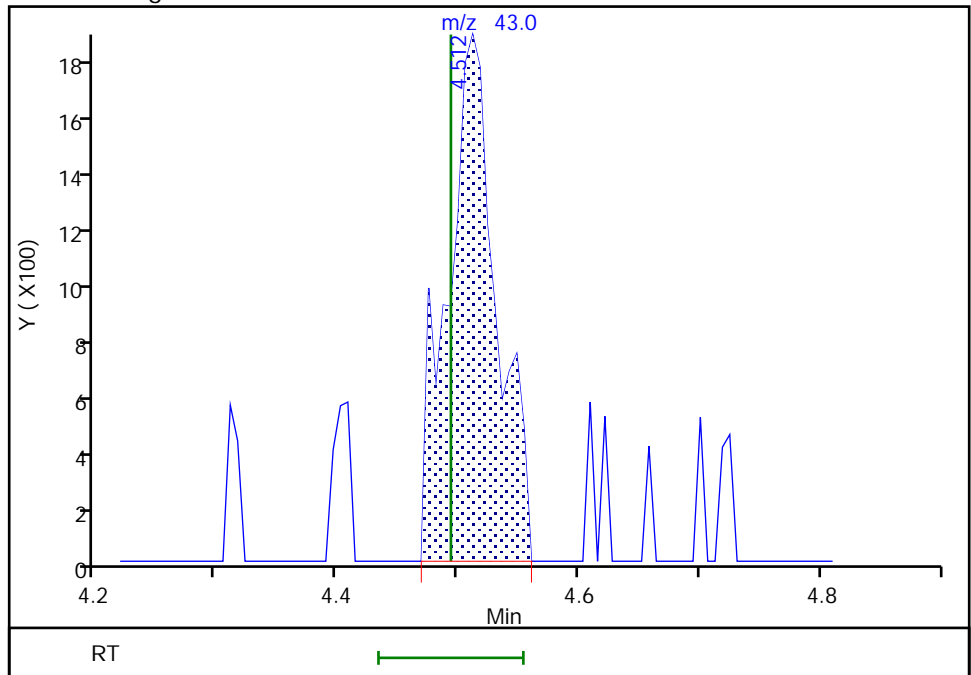
Not Detected
Expected RT: 4.49

Processing Integration Results



Manual Integration Results

RT: 4.51
Area: 5341
Amount: 1.001406
Amount Units: ug/L



Reviewer: baroner, 23-Jun-2018 14:23:29
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

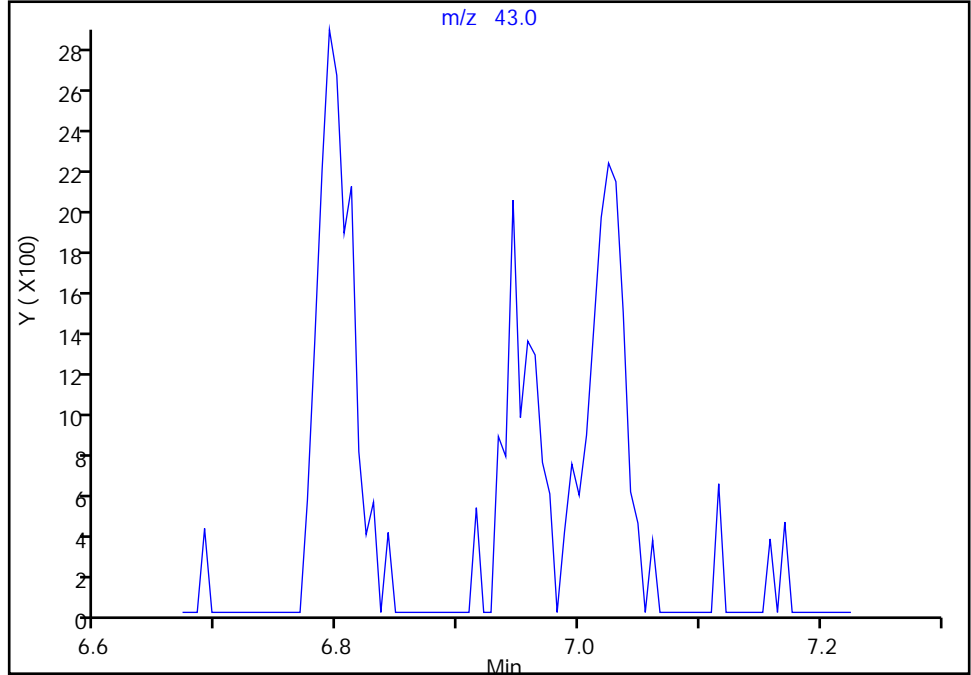
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D
Injection Date: 23-Jun-2018 05:42:30 Instrument ID: HP5973S
Lims ID: 480-137605-A-4 Lab Sample ID: 480-137605-4
Client ID: TB
Operator ID: kn ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

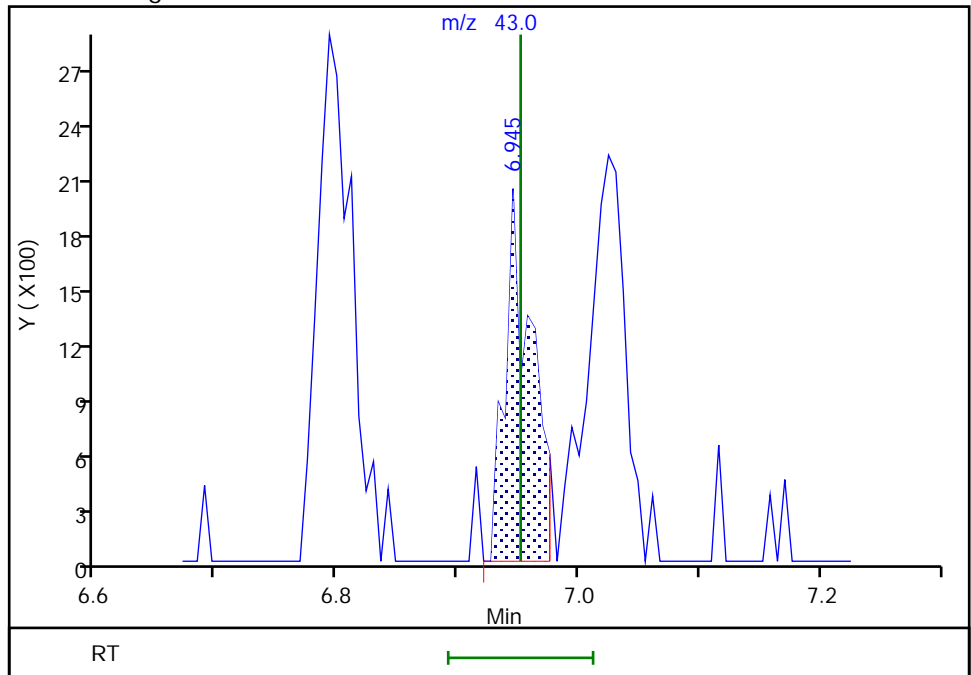
Not Detected
Expected RT: 6.95

Processing Integration Results



Manual Integration Results

RT: 6.95
Area: 3148
Amount: 0.264094
Amount Units: ug/L



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D

Injection Date: 23-Jun-2018 05:42:30

Instrument ID: HP5973S

Lims ID: 480-137605-A-4

Lab Sample ID: 480-137605-4

Client ID: TB

Operator ID: kn

ALS Bottle#: 22 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

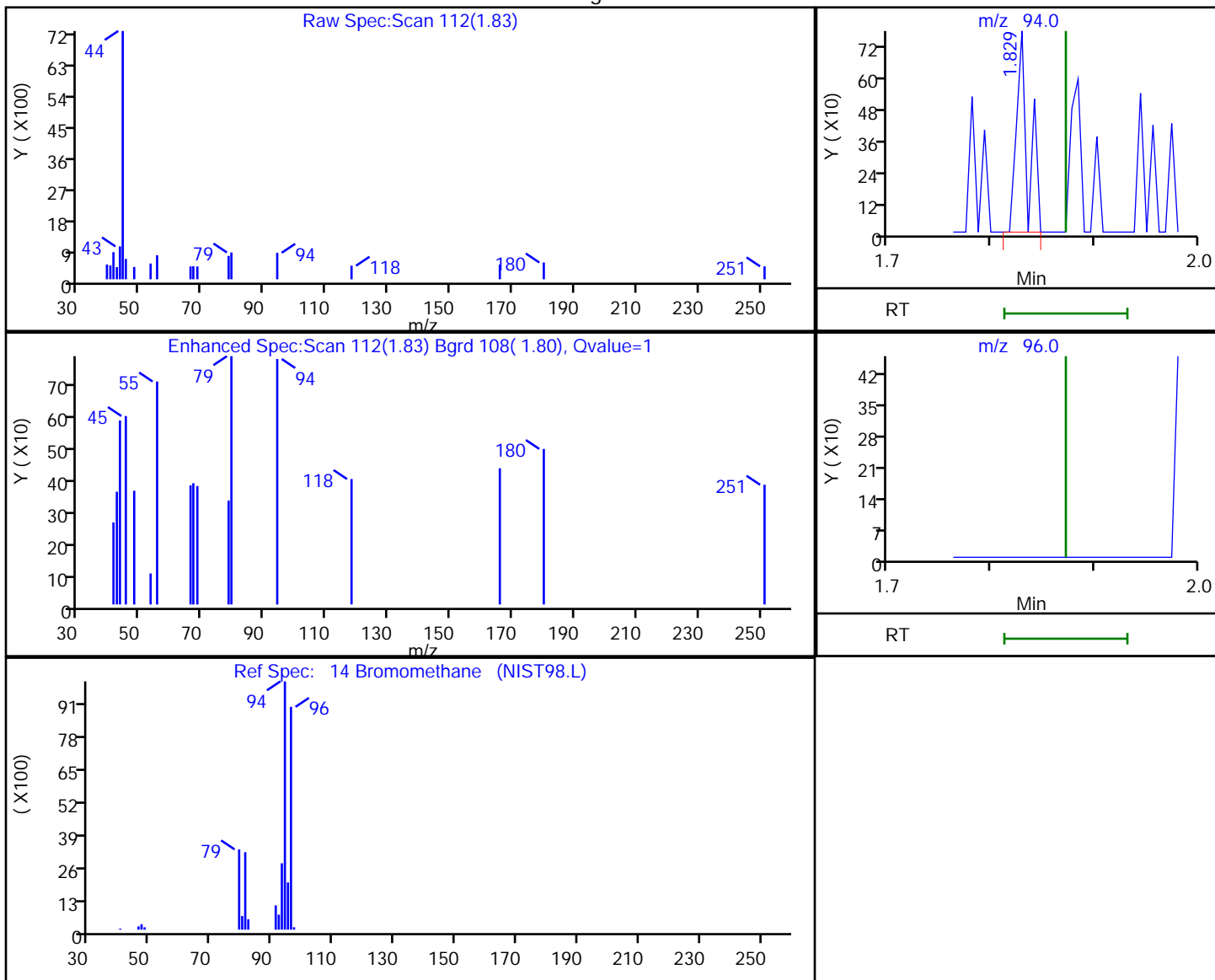
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.83	94.00	604	0.091775
1.87	96.00	0	

Reviewer: baroner, 23-Jun-2018 14:23:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D

Injection Date: 23-Jun-2018 05:42:30

Instrument ID: HP5973S

Lims ID: 480-137605-A-4

Lab Sample ID: 480-137605-4

Client ID: TB

Operator ID: kn

ALS Bottle#: 22 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: S-8260

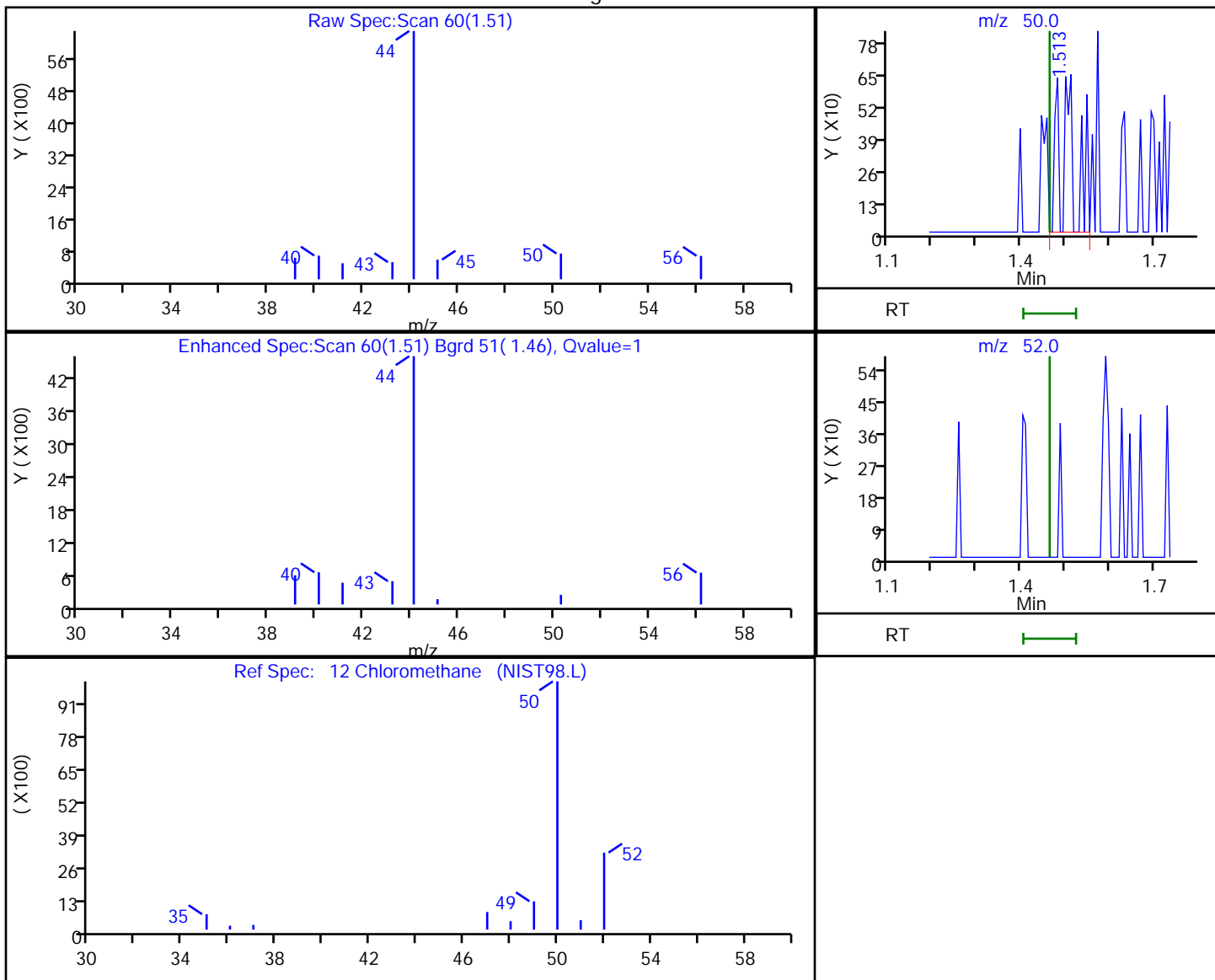
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.51	50.00	1428	0.103396
1.46	52.00	0	

Reviewer: baroner, 23-Jun-2018 14:23:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2635.D

Injection Date: 23-Jun-2018 05:42:30

Instrument ID: HP5973S

Lims ID: 480-137605-A-4

Lab Sample ID: 480-137605-4

Client ID: TB

Operator ID: kn

ALS Bottle#: 22 Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

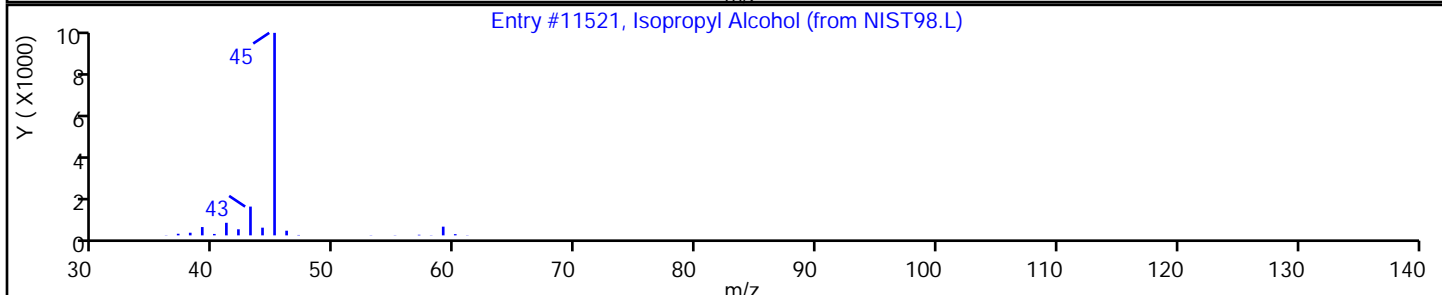
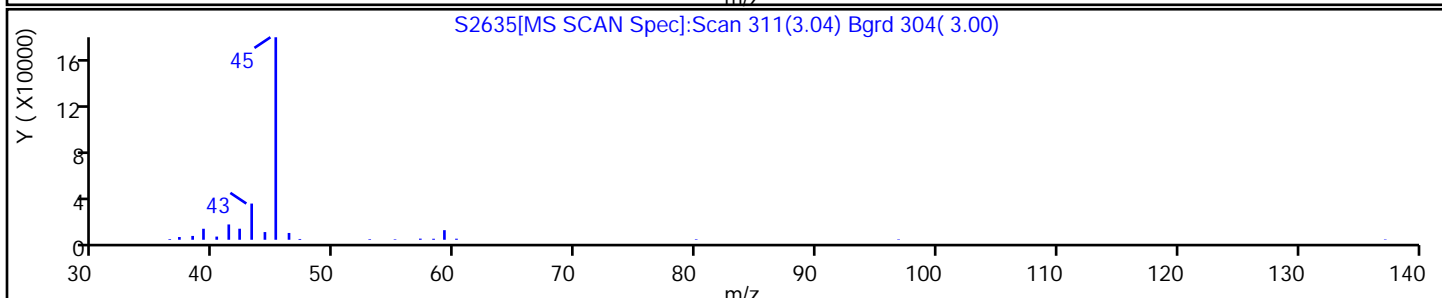
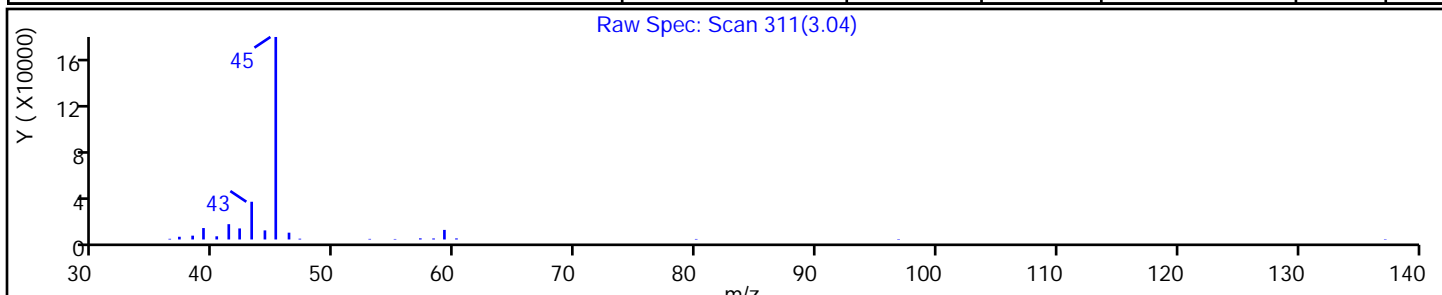
Method: S-8260

Limit Group: MV - 8260C ICAL

Column:

Detector MS SCAN

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Isopropyl Alcohol	67-63-0	NIST98.L	11521	C3H8O	60	90



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	1.0665 1.2589	0.9361 1.4448	0.9453 1.2775	1.4718	1.2318	Ave		1.2041			0.1000	17.1	20.0				
Chloromethane	1.7623 1.9306	1.9509 1.9553	1.9350 1.8158	2.0155	1.9350	Ave		1.9125			0.1000	4.3	20.0				
Vinyl chloride	1.6568 1.6908	1.5657 1.8763	1.6230 1.6849	1.8470	1.6612	Ave		1.7007			0.1000	6.3	20.0				
Butadiene	1.8620 1.6494	1.7965 1.8564	1.7020 1.6775	1.9156	1.7306	Ave		1.7737				5.5	20.0				
Bromomethane	0.9917 0.8747	0.9861 0.9359	0.8069 0.8729	0.9617	0.8612	Ave		0.9114			0.1000	7.3	20.0				
Chloroethane	++++ 1.0362	1.0152 1.1005	0.9560 1.0175	1.1014	0.9788	Ave		1.0294			0.1000	5.4	20.0				
Trichlorofluoromethane	1.3514 1.6874	1.2497 1.9145	1.5084 1.7620	1.9155	1.5032	Ave		1.6115			0.1000	15.4	20.0				
Dichlorofluoromethane	2.8785 2.0907	2.4003 2.1919	1.9931 2.1039	2.4123	1.9710	Ave		2.2552				13.4	20.0				
Ethyl ether	1.3529 1.4756	1.2888 1.5496	1.3634 1.4488	1.5277	1.4614	Ave		1.4335				6.3	20.0				
Acrolein	0.2835 0.2882	0.2776 0.2993	0.2421 0.2849	0.2616	0.2595	Ave		0.2746				6.8	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.9341	0.5111 0.9461	0.7470 1.0076	1.0940	1.0244	Lin1	-0.369	0.9933			0.1000			0.9980		0.9900	
1,1-Dichloroethene	0.8917 1.1648	0.7505 1.2089	1.1564 1.2140	1.2655	1.1826	Ave		1.1043			0.1000	16.5	20.0				
Acetone	++++ 0.4184	0.5585 0.4700	0.5654 0.4500	0.4830	0.4216	Ave		0.4810			0.1000	12.5	20.0				
Iodomethane	1.2009 1.7612	1.2126 1.8969	1.4497 1.8973	1.7945	1.7071	Ave		1.6150				17.9	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 5													
Carbon disulfide	3.3950 3.5530	2.7999 3.8268	3.4659 3.7169	3.9148	3.4911	Ave		3.5204			0.1000	9.8	20.0				
Allyl chloride	2.6942 2.0957	1.6922 2.1931	2.1081 2.1248	2.3194	1.9001	Ave		2.1409				13.7	20.0				
Methyl acetate	1.3560 1.1196	1.1715 1.2779	1.4665 1.2157	1.3271	1.1675	Ave		1.2627			0.1000	9.2	20.0				
Methylene Chloride	6.4996 1.4449	3.4907 1.4330	2.6242 1.3806	1.9329	1.5594	Lin1	2.4473	1.3618			0.1000			0.9990		0.9900	
2-Methyl-2-propanol	++++ 0.1557	0.1363 0.1769	0.1472 0.1960	0.1598	0.1689	Ave		0.1630				12.1	20.0				
Methyl tert-butyl ether	4.1375 4.2209	3.7459 4.3401	4.1817 4.1626	4.2685	4.0491	Ave		4.1383			0.1000	4.4	20.0				
trans-1,2-Dichloroethene	1.0514 1.2945	1.1406 1.3219	1.2992 1.2872	1.4285	1.2872	Ave		1.2638			0.1000	9.2	20.0				
Acrylonitrile	0.6220 0.6716	0.6885 0.7132	0.6792 0.6639	0.6531	0.6780	Ave		0.6712				4.0	20.0				
Hexane	2.2114 2.2652	2.0959 2.4442	2.1205 2.4309	2.7772	2.2960	Ave		2.3302				9.5	20.0				
1,1-Dichloroethane	2.5389 2.6549	2.3884 2.7780	2.7132 2.6860	2.8305	2.7092	Ave		2.6624			0.2000	5.3	20.0				
Vinyl acetate	2.9127 3.1221	3.1111 3.0557	3.1275 2.8332	3.2000	3.1953	Ave		3.0697				4.3	20.0				
2,2-Dichloropropane	1.3363 1.5114	1.2926 1.5386	1.4757 1.5408	1.6651	1.4425	Ave		1.4754				8.1	20.0				
cis-1,2-Dichloroethene	1.3250 1.5154	1.2193 1.5485	1.3895 1.5021	1.5820	1.5363	Ave		1.4523			0.1000	8.8	20.0				
2-Butanone (MEK)	0.8114 0.7283	0.7148 0.7480	0.7158 0.7457	0.7321	0.7126	Ave		0.7386			0.1000	4.4	20.0				
Chlorobromomethane	0.5523 0.7433	0.6218 0.7417	0.7106 0.7173	0.7721	0.6916	Ave		0.6939				10.5	20.0				
Tetrahydrofuran	0.5100 0.5143	0.5916 0.5038	0.4911 0.5042	0.4629	0.4823	Ave		0.5075				7.5	20.0				
Chloroform	2.2184 2.2511	2.3256 2.3574	2.3450 2.2735	2.5367	2.2740	Ave		2.3227			0.2000	4.3	20.0				
1,1,1-Trichloroethane	1.6807 1.7550	1.4931 1.8613	1.6427 1.8405	1.8985	1.6762	Ave		1.7310			0.1000	7.8	20.0				
Cyclohexane	2.1504 2.4488	1.8163 2.5917	2.1665 2.6545	2.4471	2.3534	Ave		2.3286			0.1000	11.8	20.0				
Carbon tetrachloride	1.1105 1.5222	1.1651 1.6554	1.5214 1.6186	1.5803	1.4305	Ave		1.4505			0.1000	14.1	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.8731 1.7168	1.4205 1.8558	1.8938 1.8328	1.8298	1.6916	Ave		1.7643			8.9		20.0				
Benzene	5.1942 5.3896	4.7117 5.5287	5.2823 5.2725	5.7352	5.3147	Ave		5.3036		0.5000	5.6		20.0				
Isobutyl alcohol	0.0671 0.0668	0.0622 0.0750	0.0700 0.0764	0.0628	0.0685	Ave		0.0686			7.5		20.0				
1,2-Dichloroethane	2.0805 2.1099	2.0699 2.1793	2.2191 2.0867	2.2540	2.1430	Ave		2.1428		0.1000	3.2		20.0				
n-Heptane	2.3209 2.1075	1.9690 2.1545	2.1019 2.1373	2.4588	2.0887	Ave		2.1673			7.0		20.0				
Trichloroethene	1.3177 1.3771	1.1544 1.4170	1.3587 1.4162	1.5440	1.3610	Ave		1.3683		0.2000	8.0		20.0				
Methylcyclohexane	1.7990 2.1533	1.5990 2.3276	1.9460 2.2773	2.4588	2.1083	Ave		2.0837		0.1000	13.8		20.0				
1,2-Dichloropropane	1.4365 1.5812	1.5517 1.6696	1.6624 1.5781	1.6836	1.6365	Ave		1.6000		0.1000	5.1		20.0				
Dibromomethane	0.7897 0.8553	0.7556 0.8807	0.7750 0.8684	0.8635	0.8943	Ave		0.8353		0.1000	6.4		20.0				
1,4-Dioxane	++++ 0.0058	0.0019 0.0058	0.0036 0.0055	0.0043	0.0058	Lin1	-0.075	0.0057						0.9980		0.9900	
Bromodichloromethane	1.3255 1.7458	1.3019 1.8412	1.4534 1.8150	1.7492	1.6384	Ave		1.6088		0.2000	13.6		20.0				
2-Chloroethyl vinyl ether	0.8987 1.1430	1.0935 1.1740	0.9247 1.1354	1.0863	1.0857	Ave		1.0677			9.5		20.0				
cis-1,3-Dichloropropene	1.7113 2.1494	1.7018 2.2435	1.9021 2.1801	2.1612	2.1330	Ave		2.0228		0.2000	10.8		20.0				
4-Methyl-2-pentanone (MIBK)	0.8176 0.7887	0.7729 0.7775	0.8747 0.7119	0.8128	0.8291	Ave		0.7981		0.1000	6.0		20.0				
Toluene	1.4932 1.6238	1.5773 1.7040	1.7421 1.7063	1.7553	1.6931	Ave		1.6619		0.4000	5.4		20.0				
trans-1,3-Dichloropropene	0.7668 0.9648	0.7879 1.0144	0.8905 1.0454	0.8818	0.9722	Ave		0.9155		0.1000	11.1		20.0				
Ethyl methacrylate	0.6799 0.9439	0.8300 0.9611	0.9006 0.9825	0.9328	0.9491	Ave		0.8975			11.1		20.0				
1,1,2-Trichloroethane	0.4116 0.4978	0.4735 0.5176	0.5613 0.5217	0.5195	0.5023	Ave		0.5007		0.1000	8.8		20.0				
Tetrachloroethene	0.6925 0.6880	0.6277 0.7351	0.6985 0.7322	0.7337	0.7060	Ave		0.7017		0.2000	5.1		20.0				
1,3-Dichloropropane	0.9225 1.0482	1.0197 1.0980	1.1380 1.0980	1.0186	1.1041	Ave		1.0559			6.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.5897 0.5765	0.5749 0.5711	0.6269 0.5367	0.6138	0.6103	Ave		0.5875			0.1000	4.9	20.0				
Dibromochloromethane	0.3992 0.6085	0.4622 0.6535	0.5746 0.6922	0.5631	0.6019	Ave		0.5694			0.1000	17.0	20.0				
1,2-Dibromoethane	0.5204 0.6216	0.6798 0.6443	0.6333 0.6522	0.6498	0.6452	Ave		0.6308				7.6	20.0				
Chlorobenzene	1.8118 1.7992	1.5610 1.8673	1.9020 1.8548	1.9177	1.8555	Ave		1.8212			0.5000	6.2	20.0				
Ethylbenzene	2.6561 2.9895	2.6563 3.0996	3.2172 2.9793	3.2411	3.1222	Ave		2.9952			0.1000	7.6	20.0				
1,1,1,2-Tetrachloroethane	0.4433 0.6070	0.5314 0.6466	0.6090 0.6704	0.5787	0.6253	Ave		0.5890				12.3	20.0				
m,p-Xylene	1.2373 1.1561	1.1556 1.2284	1.2508 1.2629	1.2609	1.1952	Ave		1.2184			0.1000	3.6	20.0				
o-Xylene	1.0045 1.1613	0.9780 1.2163	1.2332 1.2250	1.2192	1.2136	Ave		1.1564			0.3000	9.0	20.0				
Styrene	1.8152 2.0224	1.6328 2.1117	2.0436 2.1105	2.0942	2.0471	Ave		1.9847			0.3000	8.6	20.0				
Bromoform	0.2877 0.3850	0.3141 0.4304	0.3156 0.4701	0.3317	0.3750	Ave		0.3637			0.1000	17.4	20.0				
Isopropylbenzene	2.8187 3.2334	2.6604 3.2502	3.2717 3.1740	3.5120	3.2946	Ave		3.1519			0.1000	8.8	20.0				
Bromobenzene	0.7185 0.8335	0.6972 0.8144	0.8005 0.8430	0.8368	0.8355	Ave		0.7974				7.2	20.0				
1,1,2,2-Tetrachloroethane	0.8554 0.8631	0.7756 0.8499	0.8473 0.8656	0.9010	0.8934	Ave		0.8564			0.3000	4.4	20.0				
N-Propylbenzene	3.3950 3.7788	3.0422 3.7479	3.7585 3.5471	4.0917	3.8709	Ave		3.6540				8.8	20.0				
1,2,3-Trichloropropane	0.2961 0.2956	0.2105 0.2987	0.2592 0.2930	0.2999	0.3025	Ave		0.2819				11.3	20.0				
trans-1,4-Dichloro-2-butene	++++ 0.3124	0.1809 0.3116	0.2095 ++++	0.2457	0.2760	Lin1	-0.183	0.3127						0.9980		0.9900	
2-Chlorotoluene	0.9499 0.7905	0.6127 0.7783	0.7784 0.7925	0.8076	0.7823	Ave		0.7865				11.5	20.0				
1,3,5-Trimethylbenzene	2.6880 2.7560	2.4032 2.7485	2.7675 2.6995	2.8892	2.9233	Ave		2.7344				5.8	20.0				
4-Chlorotoluene	0.6916 0.8473	0.6714 0.8358	0.8732 0.8485	0.8432	0.8364	Ave		0.8059				9.7	20.0				
tert-Butylbenzene	0.4442 0.6248	0.4824 0.6328	0.5740 0.6377	0.6554	0.6120	Ave		0.5829				13.4	20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 420621
 SDG No.: _____
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	2.6497 2.9289	2.2643 2.8720	2.8780 2.7535	3.0114	2.9833	Ave		2.7927			8.7		20.0				
sec-Butylbenzene	3.1348 3.3954	2.7032 3.3821	3.3932 3.2799	3.5159	3.4256	Ave		3.2788			7.9		20.0				
1,3-Dichlorobenzene	1.5074 1.5713	1.3706 1.5679	1.6123 1.5509	1.6125	1.6026	Ave		1.5494		0.6000	5.2		20.0				
4-Isopropyltoluene	2.5737 2.9925	2.1476 2.9966	2.8678 2.8440	3.1091	3.0448	Ave		2.8220			11.3		20.0				
1,4-Dichlorobenzene	1.3127 1.5924	1.5619 1.5765	1.6568 1.5808	1.7201	1.6378	Ave		1.5799		0.5000	7.6		20.0				
n-Butylbenzene	2.1891 2.7229	2.0400 2.6514	2.6980 2.5836	2.8037	2.6684	Ave		2.5446			10.8		20.0				
1,2-Dichlorobenzene	1.3859 1.5321	1.4084 1.5247	1.5498 1.5112	1.6559	1.6346	Ave		1.5253		0.4000	6.2		20.0				
1,2-Dibromo-3-Chloropropane	0.1861 0.1811	0.1318 0.1863	0.1428 0.1854	0.1507	0.1653	Ave		0.1662		0.0500	13.2		20.0				
1,2,4-Trichlorobenzene	0.9478 1.1265	0.9110 1.1573	1.1771 1.1556	1.0821	1.1198	Ave		1.0847		0.2000	9.3		20.0				
Hexachlorobutadiene	0.5332 0.5343	0.3840 0.5453	0.5260 0.5664	0.5353	0.5245	Ave		0.5186			10.8		20.0				
Naphthalene	2.5334 3.2095	2.6074 3.1917	2.9880 3.0480	2.9747	3.1673	Ave		2.9650			8.8		20.0				
1,2,3-Trichlorobenzene	0.7843 1.0767	0.8587 1.0732	0.9477 1.1030	1.0666	1.0923	Ave		1.0003			12.2		20.0				
Dibromofluoromethane (Surr)	1.1790 1.1858	1.1799 1.2727	1.1679 1.2115	1.2117	1.1648	Ave		1.1967			3.0		20.0				
1,2-Dichloroethane-d4 (Surr)	0.7678 0.7917	0.7976 0.8218	0.7565 0.7458	0.8347	0.7500	Ave		0.7832			4.3		20.0				
Toluene-d8 (Surr)	2.4473 2.3886	2.4261 2.4587	2.5049 2.3969	2.4292	2.4265	Ave		2.4348			1.5		20.0				
4-Bromofluorobenzene (Surr)	0.7361 0.7460	0.7584 0.7652	0.7525 0.7580	0.7431	0.7227	Ave		0.7477			1.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4246 248186	7348 556127	15348 1042243	57375	100661	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	7016 380591	15313 752596	31418 1481396	78570	158120	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	6596 333324	12290 722212	26352 1374584	72004	135746	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7413 325163	14101 714525	27634 1368549	74679	141422	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3948 172433	7740 360223	13102 712144	37490	70373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 204270	7969 423584	15522 830061	42938	79988	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5380 332653	9809 736903	24492 1437497	74675	122840	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11460 412155	18841 843653	32362 1716432	94040	161069	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5386 290892	10116 596459	22137 1181934	59556	119421	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	5643 284078	10896 575962	19651 1162249	50983	106044	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Lin1	++++ 184140	4012 364156	12129 822020	42648	83709	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	3550 229631	5891 465301	18776 990419	49334	96639	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 412424	21919 904483	45897 1835772	94147	172269	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4781 347195	9518 730136	23539 1547832	69957	139498	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13516 700429	21977 1472959	56275 3032330	152614	285284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	10726 413143	13283 844115	34229 1733446	90419	155269	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	10797 441430	18391 983740	47623 1983551	103471	190812	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	25876 284846	27400 551561	42609 1126336	75350	127431	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	++++ 307003	10697 680866	23908 1598960	62295	137981	++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	16472 832097	29403 1670515	67897 3395940	166404	330882	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4186 255195	8953 508786	21095 1050113	55688	105184	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	24762 1323936	54039 2745107	110281 5416558	254614	554059	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	8804 446557	16451 940801	34429 1983165	108267	187621	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	10108 523385	18747 1069251	44053 2191279	110345	221389	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	23192 1230989	48840 2352331	101560 4622714	249498	522220	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5320 297960	10146 592229	23960 1257016	64910	117878	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5275 298747	9571 596033	22561 1225447	61673	125542	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	16151 717854	28054 1439504	58111 3041661	142709	291158	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2199 146527	4881 285479	11538 585187	30101	56519	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	4061 202767	9288 387841	15949 822605	36094	78819	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	8832 443774	18254 907363	38075 1854730	98890	185827	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6691 345970	11720 716429	26672 1501541	74012	136975	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	8561 482758	14257 997545	35177 2165602	95397	192312	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4421 300091	9145 637175	24702 1320508	61607	116898	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	7457 338452	11150 714312	30749 1495256	71332	138232	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	20679 1062500	36984 2128022	85767 4301395	223580	434302	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	6683 329152	12199 721955	28420 1557611	61251	139911	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8283 415950	16247 838833	36030 1702374	87871	175124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	9240 415475	15455 829266	34128 1743611	95852	170684	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5246 271489	9061 545392	22060 1155378	60191	111214	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	7162 424498	12551 895898	31597 1857834	95854	172282	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	5719 311720	12180 642638	26992 1287446	65633	133728	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	3144 168616	5931 338999	12583 708426	33662	73081	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	++++ 46908	597 91625	2267 176888	6969	18780	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	5277 344167	10219 708669	23598 1480734	68190	133887	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3578 225325	8583 451891	15014 926261	42348	88719	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6813 423733	13358 863532	30883 1778596	84252	174306	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	32292 1601823	59826 3068632	137972 5759555	326171	670794	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	11795 659595	24418 1345091	54960 2760907	140875	273964	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6057 391909	12197 800744	28095 1691433	70774	157325	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5371 383401	12849 758693	28412 1589664	74867	153587	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3251 202209	7331 408565	17708 844173	41694	81284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5470 279490	9718 580239	22036 1184748	58888	114249	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7287 425777	15786 866770	35902 1776603	81753	178659	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	23291 1170919	44500 2254226	98893 4341846	246316	493778	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3153 247163	7156 515833	18127 1120056	45191	97396	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4111 252512	10524 508600	19979 1055354	52152	104411	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51

Calibration End Date: 06/20/2018 16:34

Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14312 730835	24166 1474031	60005 3001103	153908	300247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	20981 1214363	41123 2446781	101499 4820637	260118	505219	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3502 246580	8227 510400	19212 1084784	46444	101180	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	9774 469623	17890 969691	39460 2043355	101199	193403	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	7935 471745	15140 960148	38904 1982170	97848	196385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14339 821536	25278 1666910	64472 3414832	168072	331254	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2273 156408	4863 339740	9957 760638	26624	60675	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	20648 1180615	39437 2412885	97764 4783571	261022	487020	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	5263 304349	10335 604551	23921 1270447	62196	123511	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6266 315135	11498 630975	25318 1304499	66963	132068	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	24869 1379737	45097 2782295	112308 5345840	304106	572209	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2169 107926	3120 221749	7744 441615	22292	44716	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	++++ 114077	2682 231344	6261 ++++	18263	40802	++++ 25.0	1.00 50.0	2.00 ++++	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6958 288633	9082 577783	23261 1194322	60025	115644	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19690 1006297	35625 2040375	82695 4068375	214731	432135	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	5066 309390	9952 620467	26092 1278707	62670	123635	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3254 228134	7151 469785	17151 961000	48709	90461	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19410 1069434	33566 2132089	85998 4149841	223814	441006	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	22963 1239742	40072 2510799	101392 4943148	261311	506385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	11042 573712	20317 1163942	48178 2337298	119848	236904	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	18853 1092636	31836 2224584	85693 4286221	231080	450095	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 420621

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	9616 581426	23153 1170382	49506 2382476	127844	242101	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16036 994221	30240 1968301	80619 3893665	208379	394458	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10152 559407	20878 1131910	46309 2277520	123068	241629	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1363 66108	1954 138297	4266 279459	11203	24435	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	6943 411331	13505 859177	35174 1741646	80426	165528	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3906 195098	5693 404793	15718 853596	39788	77538	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	18558 1171879	38651 2369399	89284 4593666	221088	468207	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5745 393148	12729 796689	28319 1662277	79276	161462	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	234690 233776	231529 244934	237036 247091	236175	237971	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152837 156084	156518 158160	153545 152101	162701	153221	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	966595 970258	938964 970429	987838 969583	974777	981631	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	290734 303043	293518 302035	296734 306600	298183	292377	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Jun-2018 13:51:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0072482-005
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:34 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 17:24:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	199059	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394964	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	366264	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	57	234690	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	152837	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	966595	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	290734	25.0	24.6	
10 Dichlorodifluoromethane	85	1.300	1.282	0.018	1	4246	0.5000	0.4429	
12 Chloromethane	50	1.464	1.464	0.000	34	7016	0.5000	0.4607	
13 Vinyl chloride	62	1.562	1.549	0.013	21	6596	0.5000	0.4871	a
151 Butadiene	54	1.598	1.574	0.024	52	7413	0.5000	0.5249	Ma
14 Bromomethane	94	1.878	1.872	0.006	62	3948	0.5000	0.5440	
15 Chloroethane	64		1.969				ND	ND	U
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	31	5380	0.5000	0.4193	M
16 Dichlorofluoromethane	67	2.200	2.194	0.006	55	11460	0.5000	0.6382	Ma
18 Ethyl ether	59	2.498	2.492	0.006	52	5386	0.5000	0.4719	
20 Acrolein	56	2.693	2.687	0.006	32	5643	2.50	2.58	M
21 1,1,2-Trichloro-1,2,2-trif	101		2.705				ND	ND	U
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	28	3550	0.5000	0.4037	M
23 Acetone	43	2.851	2.851	0.000	93	13929	2.50	3.64	Ma
25 Iodomethane	142	2.894	2.894	0.000	16	4781	0.5000	0.3718	a
26 Carbon disulfide	76	2.918	2.918	0.000	85	13516	0.5000	0.4822	M
28 3-Chloro-1-propene	41	3.088	3.089	0.000	37	10726	0.5000	0.6292	M
27 Methyl acetate	43	3.143	3.143	0.000	85	10797	1.00	1.07	M
30 Methylene Chloride	84	3.253	3.253	0.000	91	25876	0.5000	0.5893	M
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	57	3836	5.00	2.96	M
32 Methyl tert-butyl ether	73	3.460	3.454	0.006	53	16472	0.5000	0.4999	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	60	4186	0.5000	0.4160	
33 Acrylonitrile	53	3.539	3.539	0.000	92	24762	5.00	4.63	
35 Hexane	57	3.660	3.660	0.000	68	8804	0.5000	0.4745	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	8	10108	0.5000	0.4768	
37 Vinyl acetate	43	3.946	3.952	-0.006	92	23192	1.00	0.9489	
44 2,2-Dichloropropane	77	4.409	4.415	-0.006	37	5320	0.5000	0.4529	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	30	5275	0.5000	0.4562	a
43 2-Butanone (MEK)	43	4.500	4.494	0.006	83	16151	2.50	2.75	
48 Chlorobromomethane	128	4.701	4.695	0.006	63	2199	0.5000	0.3980	
49 Tetrahydrofuran	42	4.719	4.713	0.006	57	4061	1.00	1.00	
50 Chloroform	83	4.768	4.774	-0.006	61	8832	0.5000	0.4776	
51 1,1,1-Trichloroethane	97	4.889	4.877	0.012	31	6691	0.5000	0.4855	
52 Cyclohexane	56	4.877	4.883	-0.006	45	8561	0.5000	0.4617	
55 Carbon tetrachloride	117	5.011	5.011	0.000	55	4421	0.5000	0.3828	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	61	7457	0.5000	0.5308	
57 Benzene	78	5.236	5.236	0.000	33	20679	0.5000	0.4897	
53 Isobutyl alcohol	43	5.272	5.266	0.006	34	6683	12.5	12.2	M
58 1,2-Dichloroethane	62	5.315	5.315	0.000	59	8283	0.5000	0.4855	
59 n-Heptane	43	5.406	5.412	-0.006	62	9240	0.5000	0.5354	M
62 Trichloroethene	95	5.844	5.850	-0.006	50	5246	0.5000	0.4815	
64 Methylcyclohexane	83	5.960	5.960	0.000	57	7162	0.5000	0.4317	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	41	5719	0.5000	0.4489	
67 Dibromomethane	93	6.240	6.234	0.006	69	3144	0.5000	0.4727	
66 1,4-Dioxane	88	6.258	6.246	0.012	8	485	10.0	18.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	23	5277	0.5000	0.4120	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	29	3578	0.5000	0.4209	
72 cis-1,3-Dichloropropene	75	6.812	6.806	0.006	47	6813	0.5000	0.4230	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	87	32292	2.50	2.56	M
74 Toluene	92	7.079	7.085	-0.006	60	11795	0.5000	0.4492	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	54	6057	0.5000	0.4188	M
75 Ethyl methacrylate	69	7.420	7.414	0.006	48	5371	0.5000	0.3788	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	20	3251	0.5000	0.4110	
81 Tetrachloroethene	166	7.621	7.615	0.006	53	5470	0.5000	0.4934	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	50	7287	0.5000	0.4368	
80 2-Hexanone	43	7.797	7.791	0.006	70	23291	2.50	2.51	
83 Chlorodibromomethane	129	7.961	7.961	0.000	7	3153	0.5000	0.3505	
84 Ethylene Dibromide	107	8.071	8.071	0.000	44	4111	0.5000	0.4125	
87 Chlorobenzene	112	8.545	8.539	0.006	18	14312	0.5000	0.4974	
88 Ethylbenzene	91	8.631	8.631	0.000	67	20981	0.5000	0.4434	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	21	3502	0.5000	0.3764	
90 m-Xylene & p-Xylene	106	8.758	8.752	0.006	0	9774	0.5000	0.5078	
91 o-Xylene	106	9.184	9.178	0.006	72	7935	0.5000	0.4343	
92 Styrene	104	9.209	9.209	0.000	67	14339	0.5000	0.4573	
95 Bromoform	173	9.470	9.464	0.006	1	2273	0.5000	0.3956	
94 Isopropylbenzene	105	9.561	9.561	0.000	72	20648	0.5000	0.4471	
101 Bromobenzene	156	9.914	9.908	0.006	52	5263	0.5000	0.4505	
97 1,1,2,2-Tetrachloroethane	83	9.975	9.969	0.006	11	6266	0.5000	0.4994	
99 N-Propylbenzene	91	9.981	9.987	-0.006	84	24869	0.5000	0.4646	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	21	2169	0.5000	0.5251	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	863	0.5000	0.7725	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	55	6958	0.5000	0.6038	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	60	19690	0.5000	0.4915	
105 4-Chlorotoluene	126	10.200	10.200	0.000	44	5066	0.5000	0.4291	
106 tert-Butylbenzene	134	10.474	10.474	0.000	63	3254	0.5000	0.3810	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	48	19410	0.5000	0.4744	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	52	22963	0.5000	0.4780	
111 1,3-Dichlorobenzene	146	10.833	10.827	0.006	46	11042	0.5000	0.4864	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	53	18853	0.5000	0.4560	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	34	9616	0.5000	0.4154	M
115 n-Butylbenzene	91	11.210	11.210	0.000	68	16036	0.5000	0.4301	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	64	10152	0.5000	0.4543	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	1	1363	0.5000	0.5598	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	29	6943	0.5000	0.4369	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	6	3906	0.5000	0.5141	M
121 Naphthalene	128	12.883	12.877	0.006	77	18558	0.5000	0.4272	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	36	5745	0.5000	0.3920	
S 123 Total BTEX	1				0			2.32	
S 125 1,2-Dichloroethene, Total	1				0			0.8722	
S 124 Xylenes, Total	1				0			0.9421	
S 126 1,3-Dichloropropene, Total	1				0			0.8418	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00128	Amount Added: 0.50	Units: uL	
GAS CORP mix_00287	Amount Added: 0.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D

Injection Date: 20-Jun-2018 13:51:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 0.5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

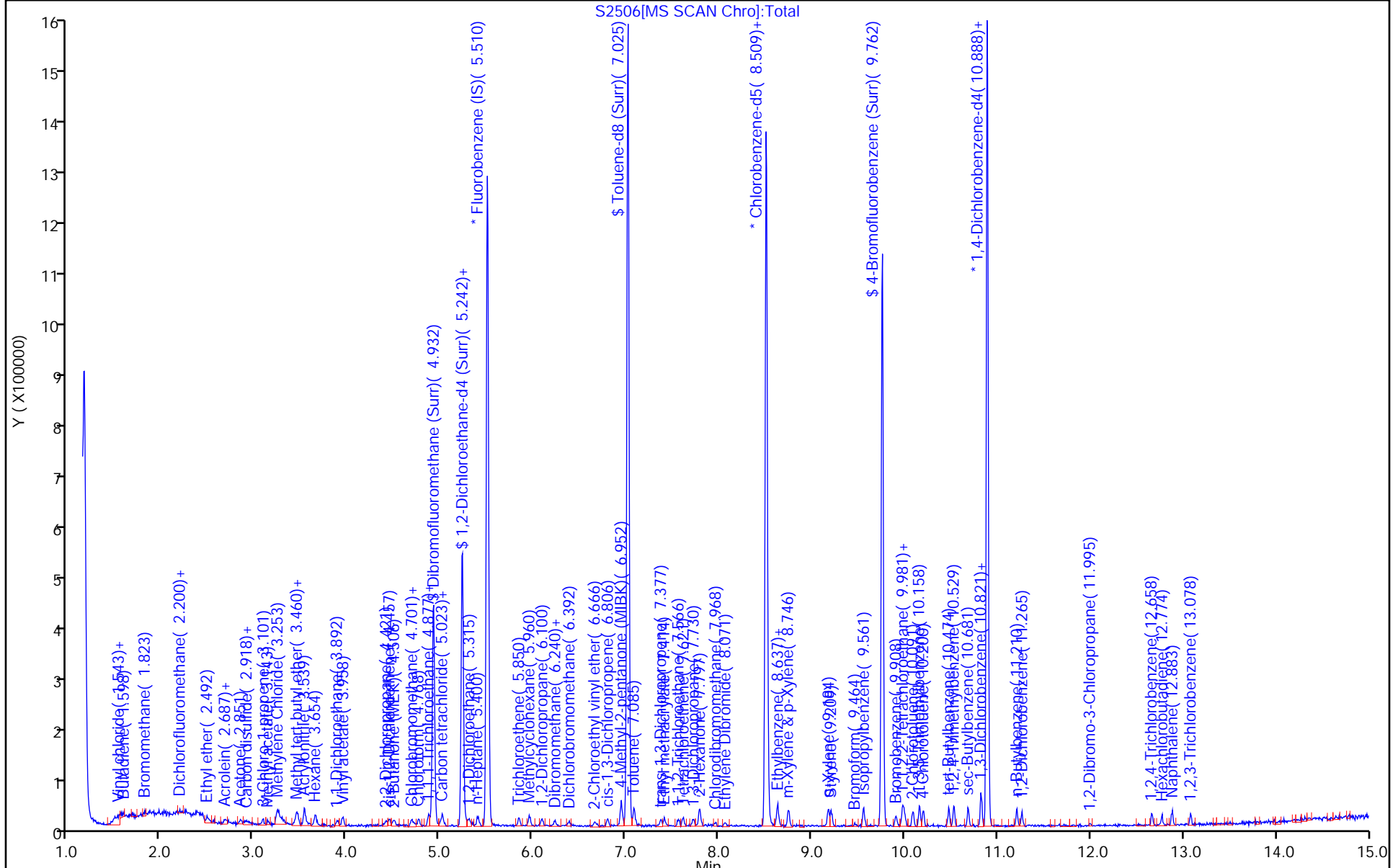
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

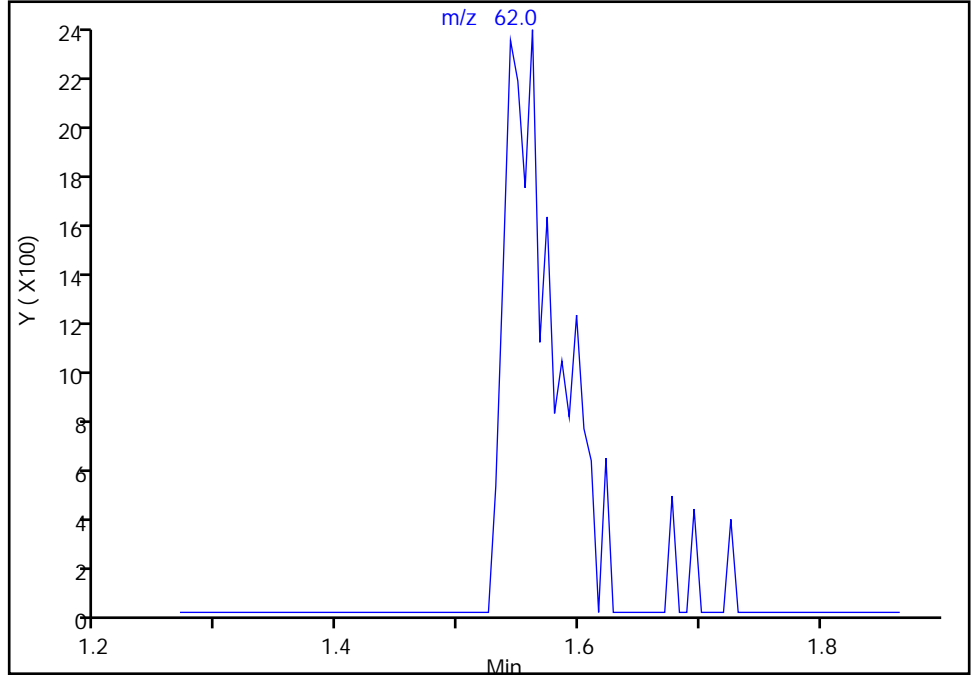
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

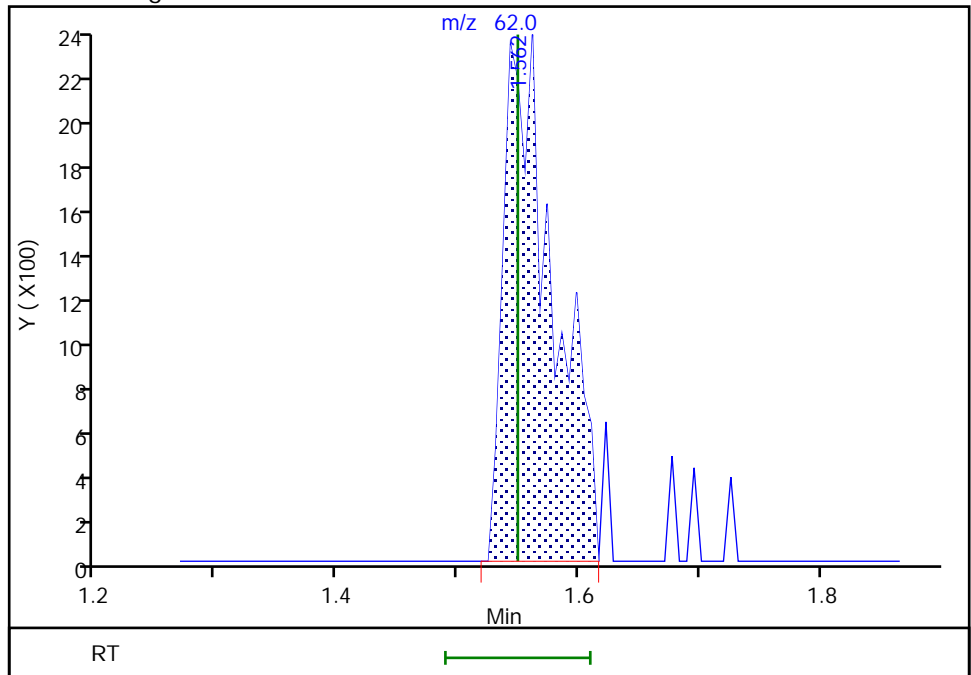
Not Detected
Expected RT: 1.55

Processing Integration Results



RT: 1.56
Area: 6596
Amount: 0.487086
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:40:43
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Buffalo

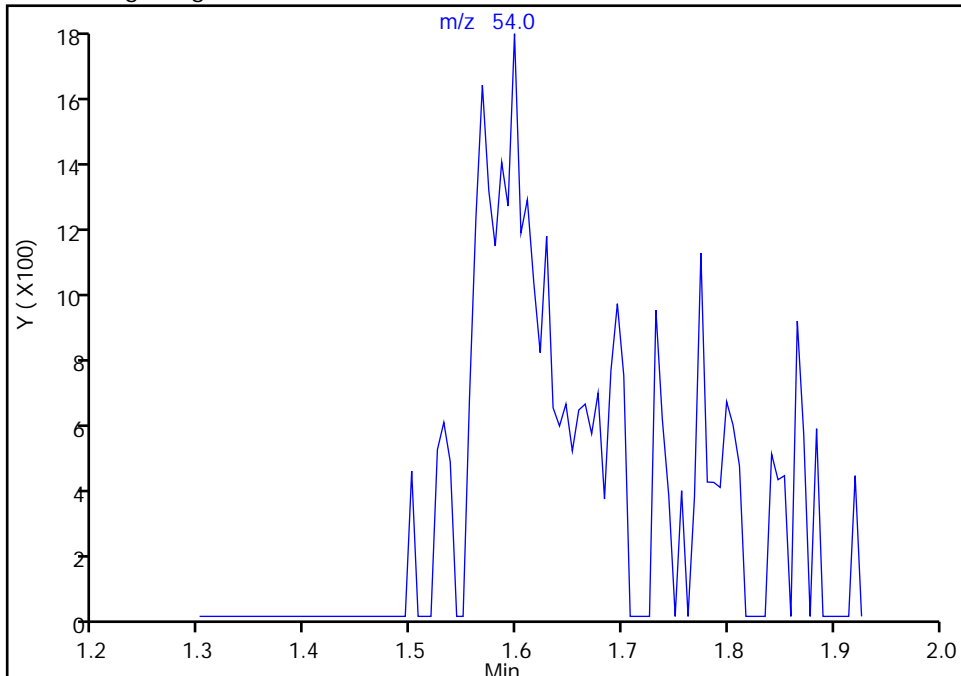
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

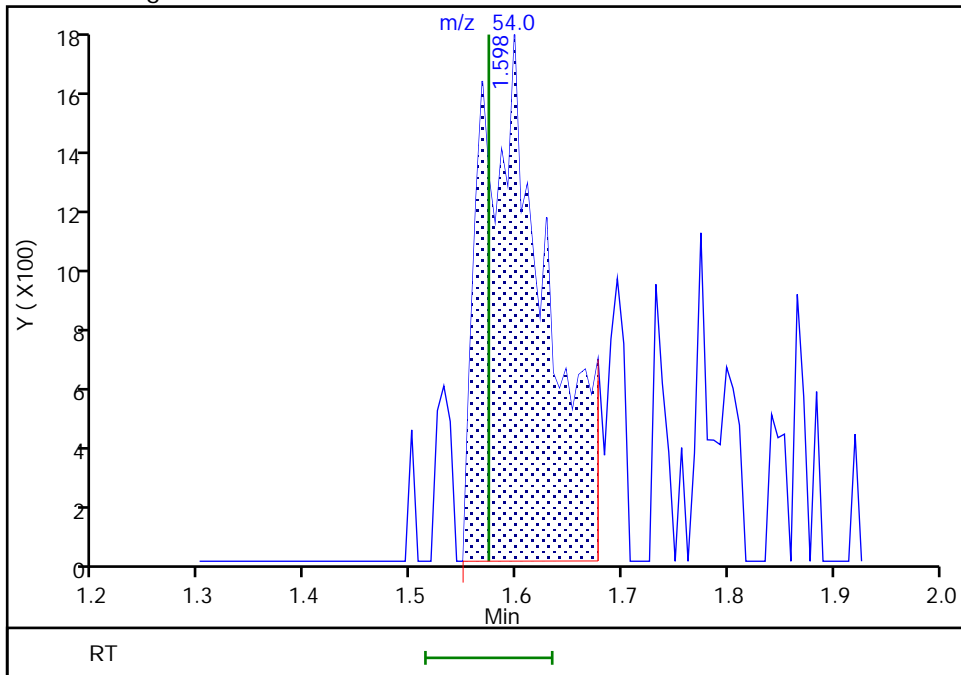
Not Detected
Expected RT: 1.57

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 7413
Amount: 0.524880
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:56:38
Audit Action: Manually Integrated

TestAmerica Buffalo

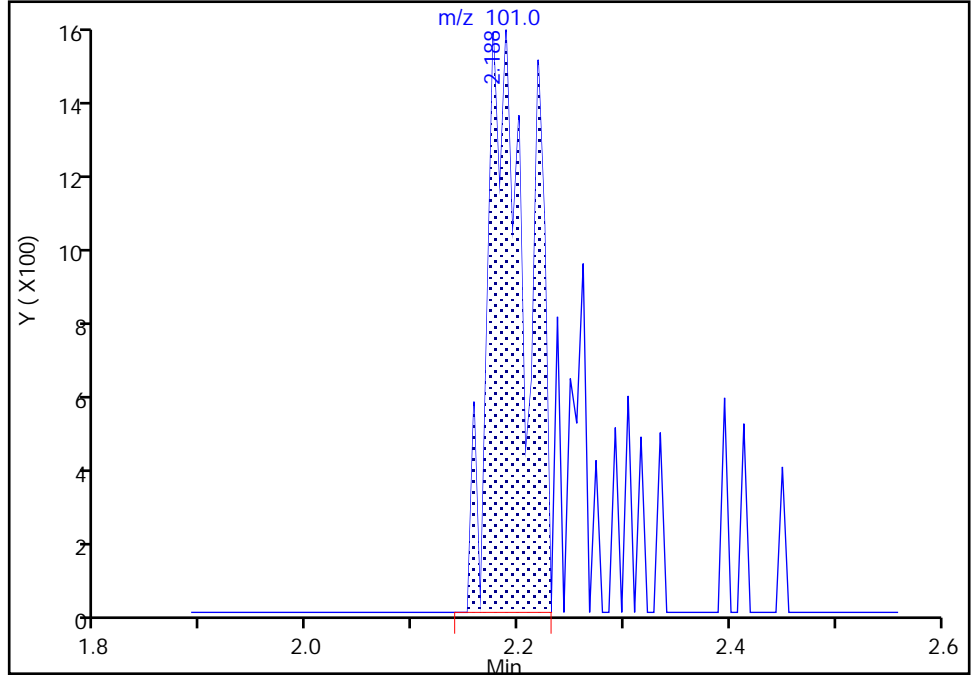
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

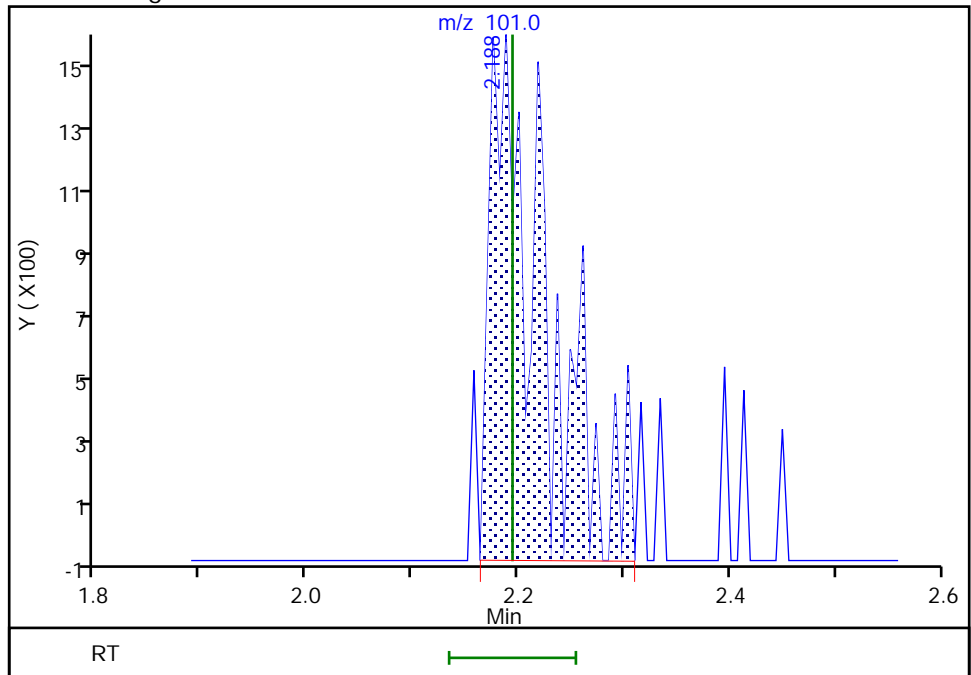
RT: 2.19
Area: 4042
Amount: 0.598811
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 5380
Amount: 0.419280
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:45:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

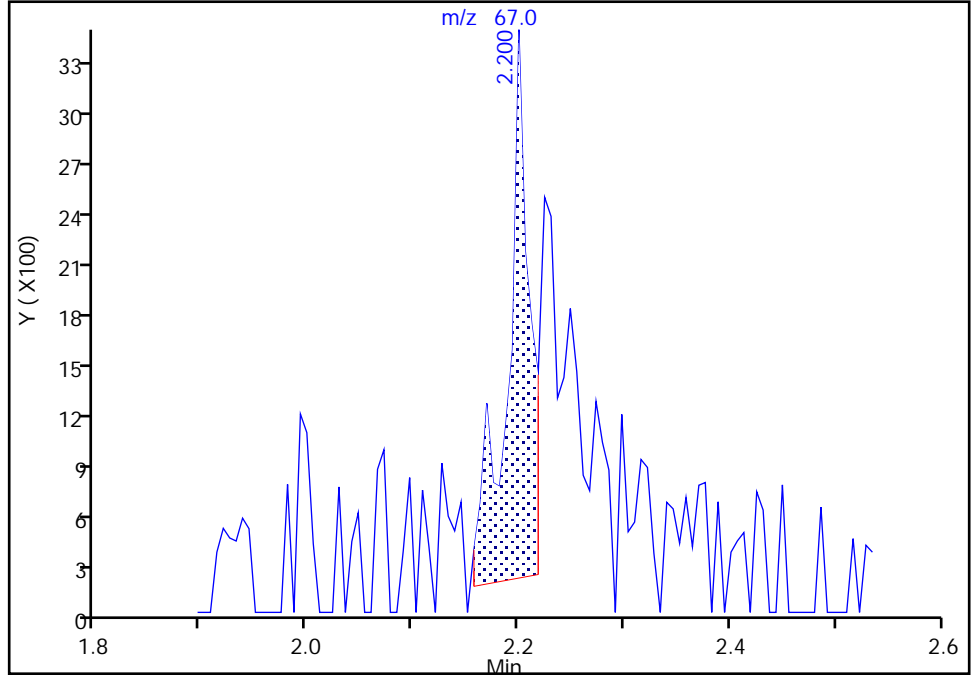
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

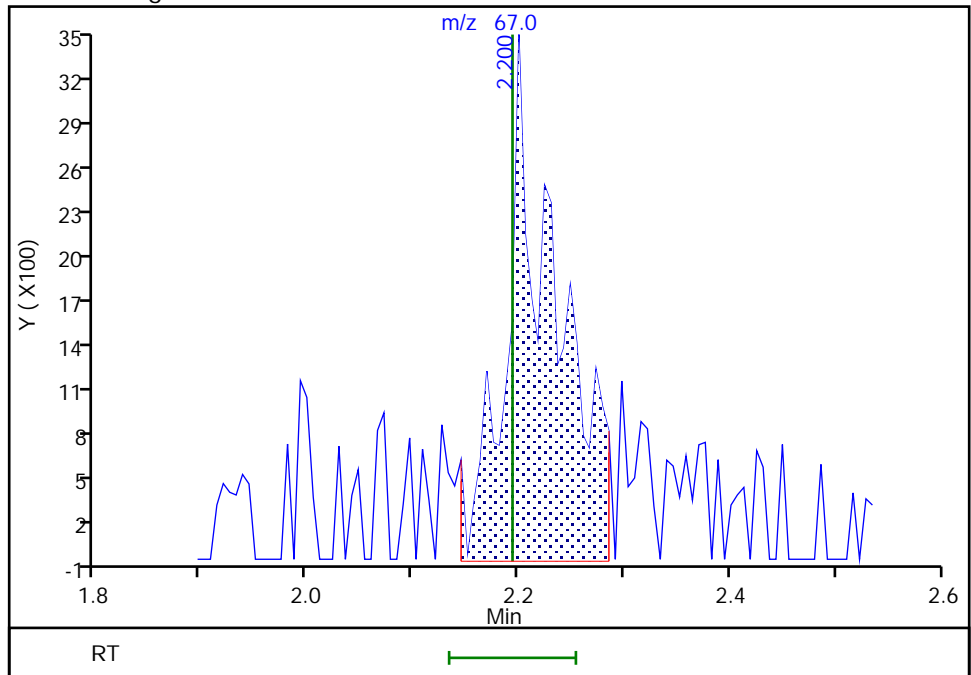
RT: 2.20
Area: 4764
Amount: 0.316635
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 11460
Amount: 0.638193
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:41:07
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

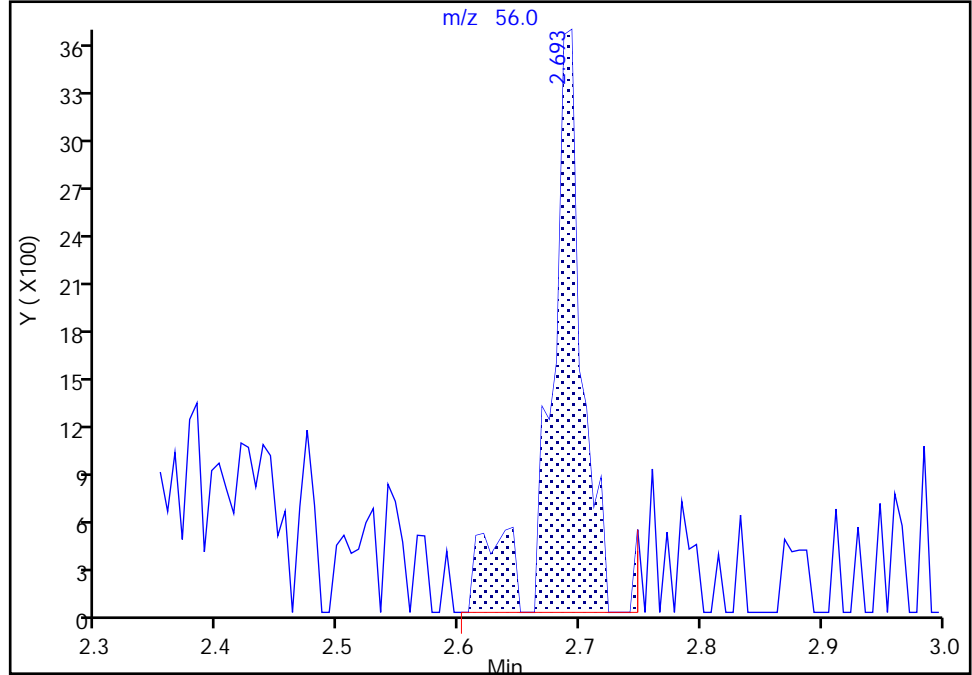
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

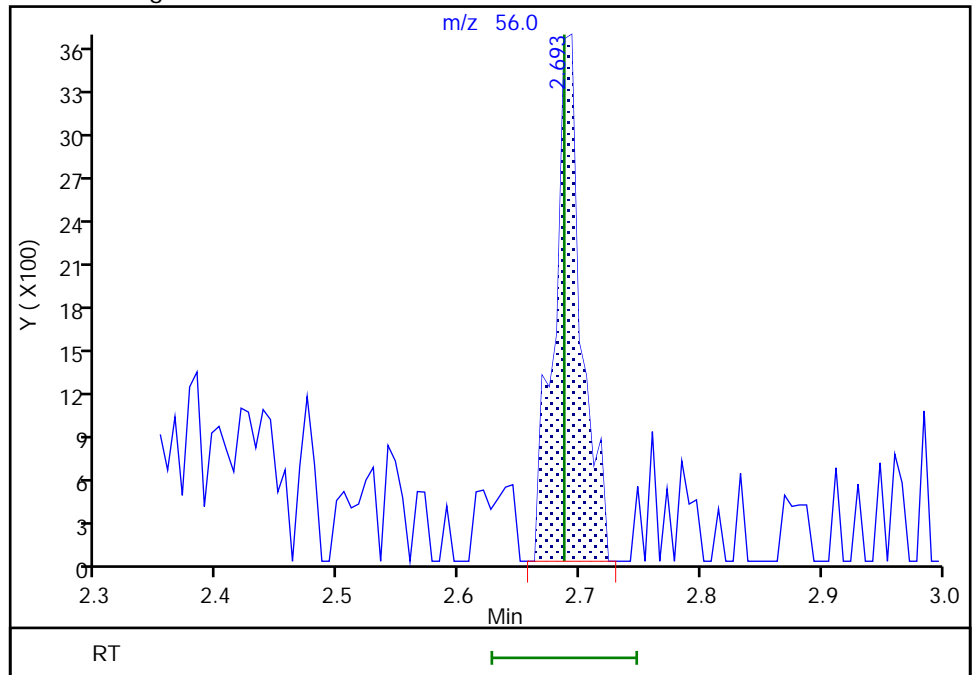
RT: 2.69
Area: 6846
Amount: 3.145829
Amount Units: ug/L

Processing Integration Results



RT: 2.69
Area: 5643
Amount: 2.581028
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:42:04
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

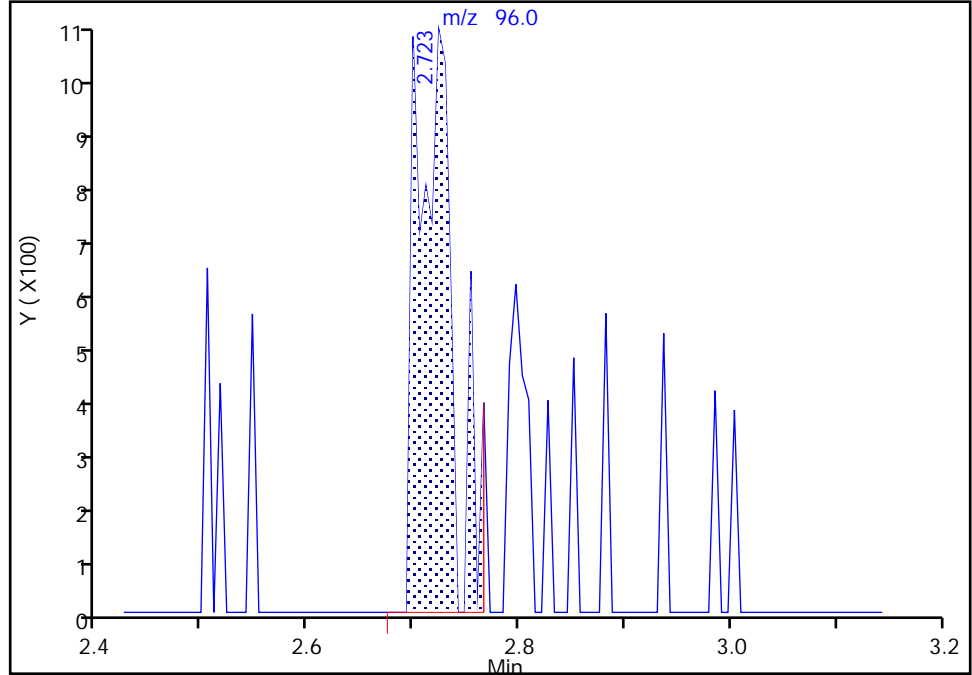
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

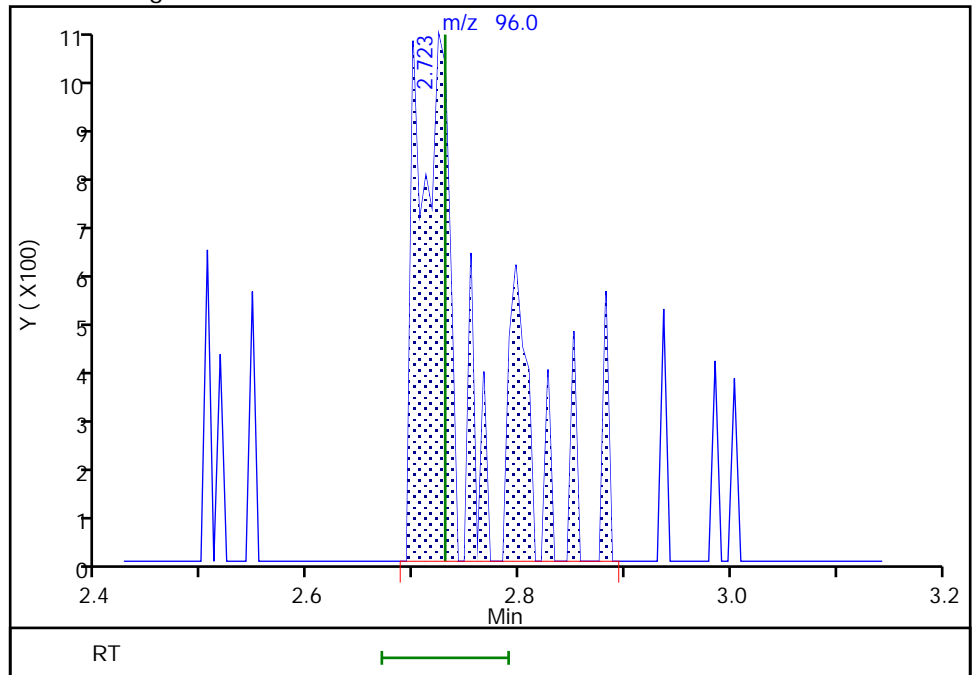
RT: 2.72
Area: 2399
Amount: 0.270204
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 3550
Amount: 0.403737
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:47:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

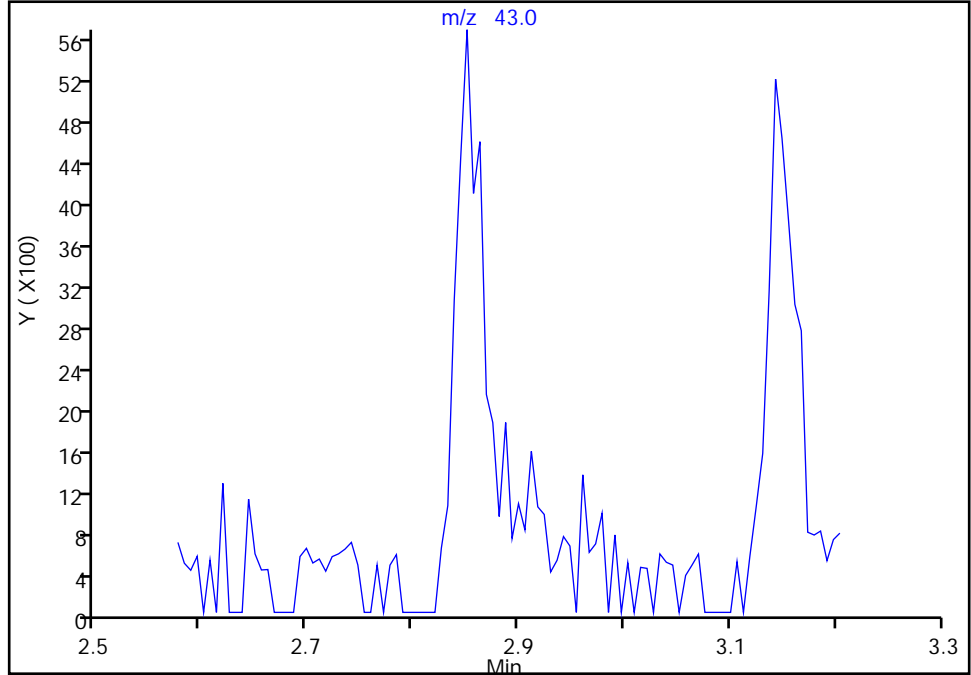
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

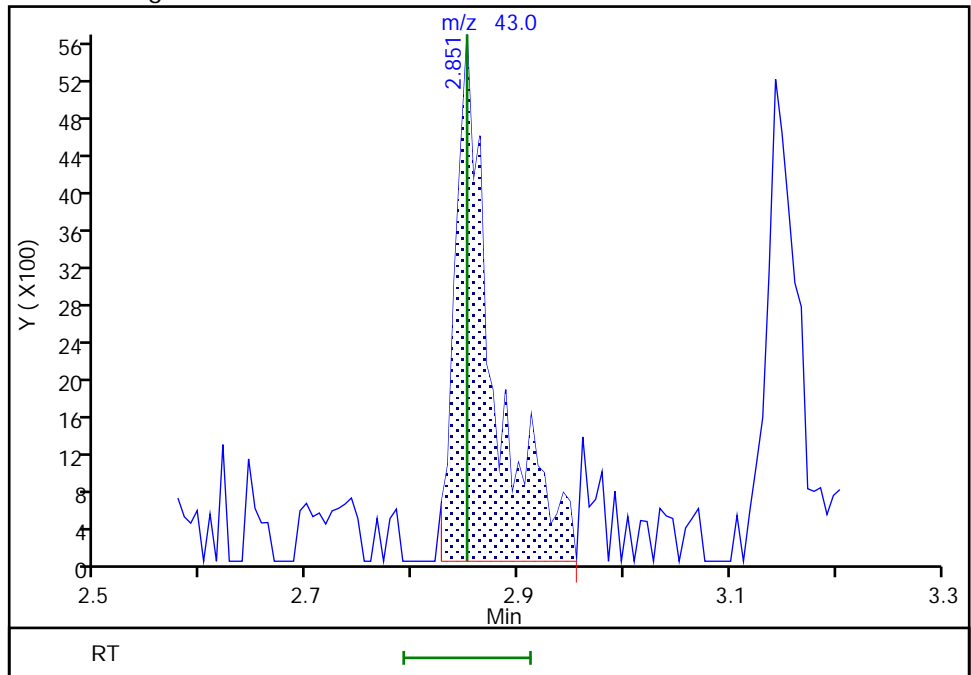
Not Detected
Expected RT: 2.85

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 13929
Amount: 3.637017
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:42:59
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

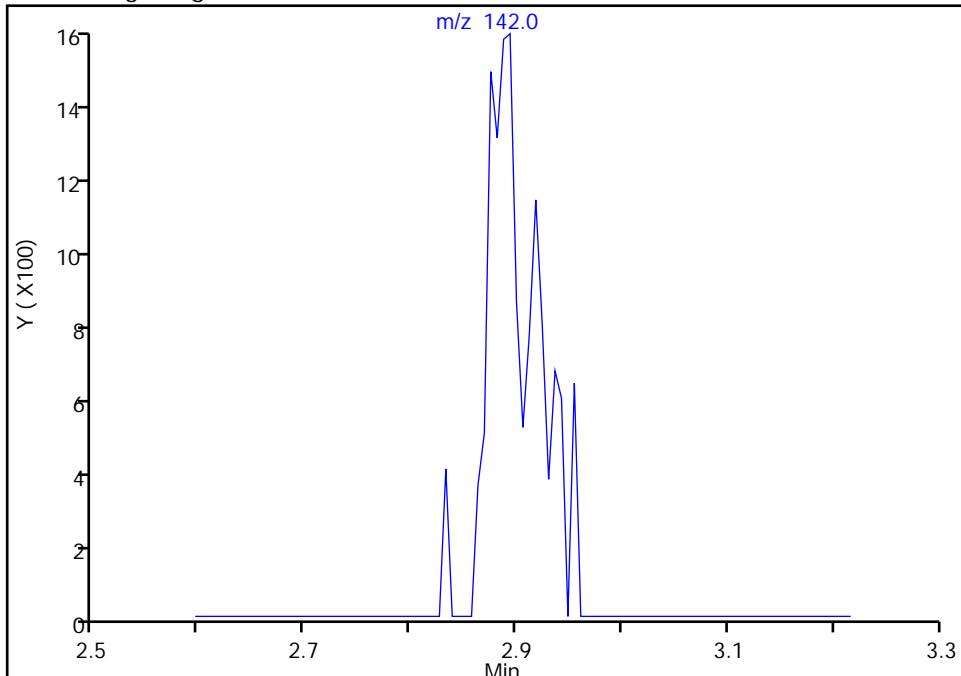
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

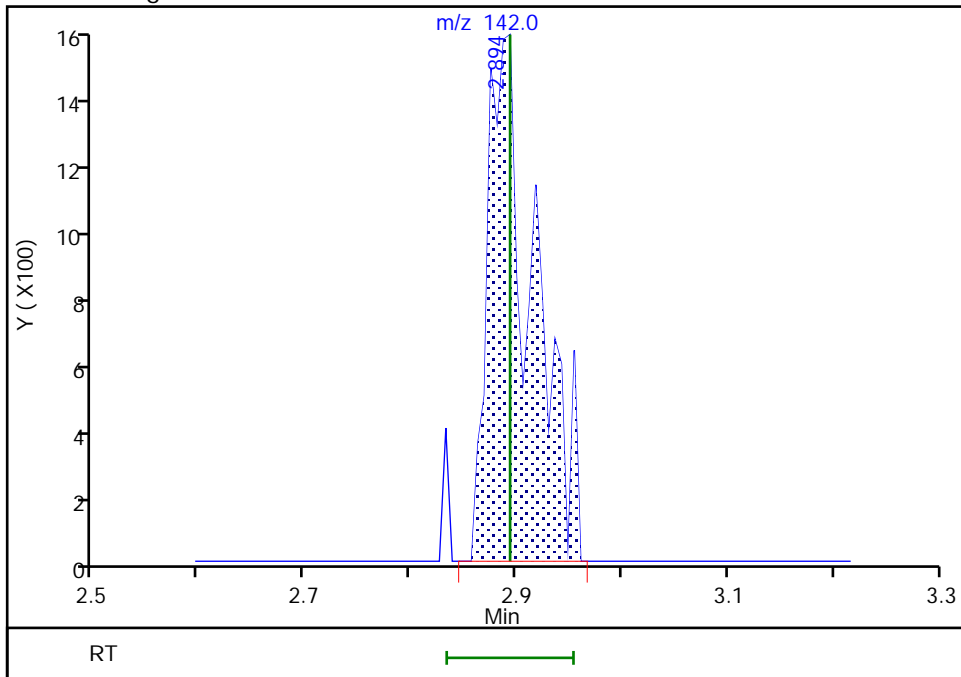
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 4781
Amount: 0.371790
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:57:46
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

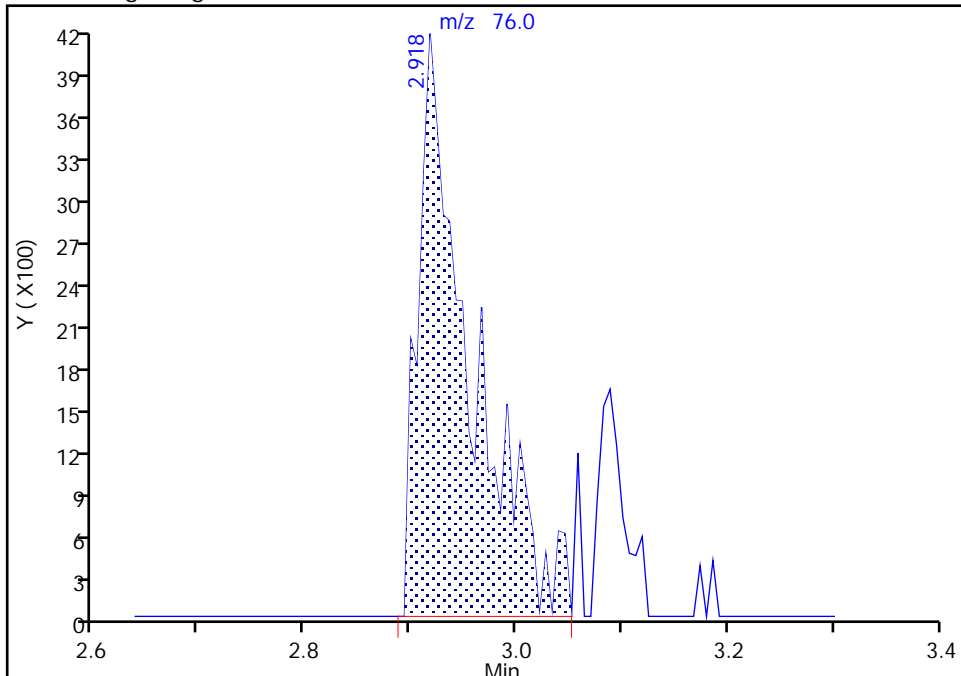
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

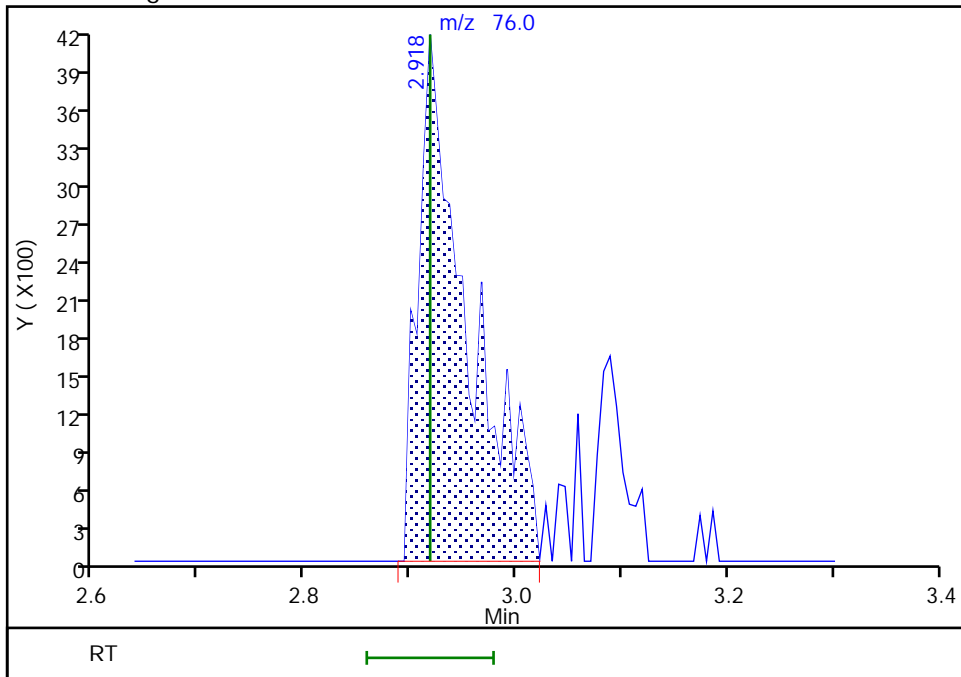
RT: 2.92
Area: 14115
Amount: 0.500876
Amount Units: ug/L

Processing Integration Results



RT: 2.92
Area: 13516
Amount: 0.482183
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:58:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

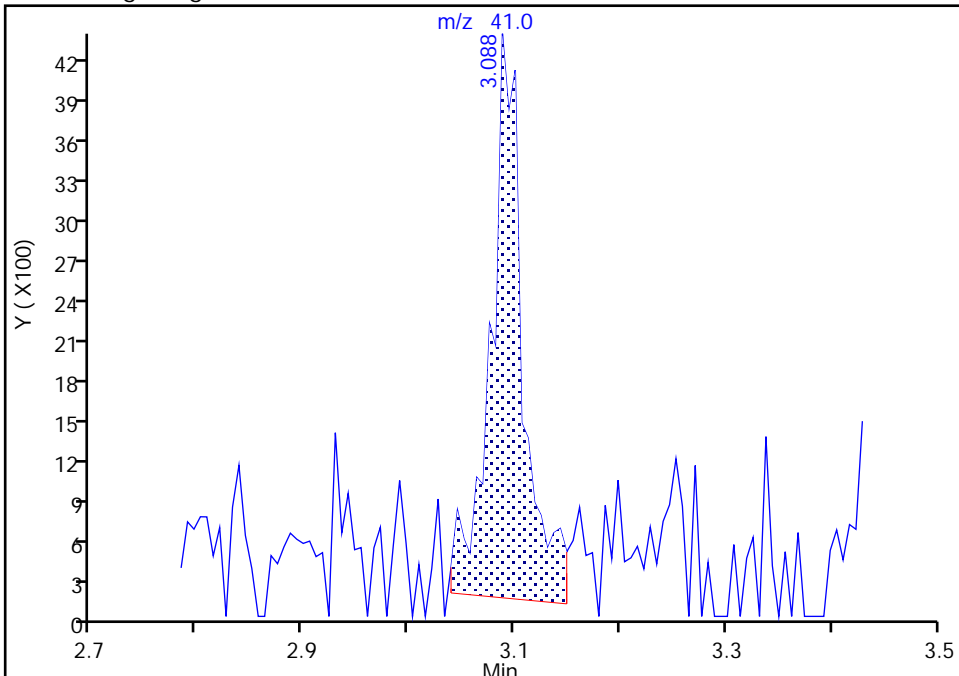
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

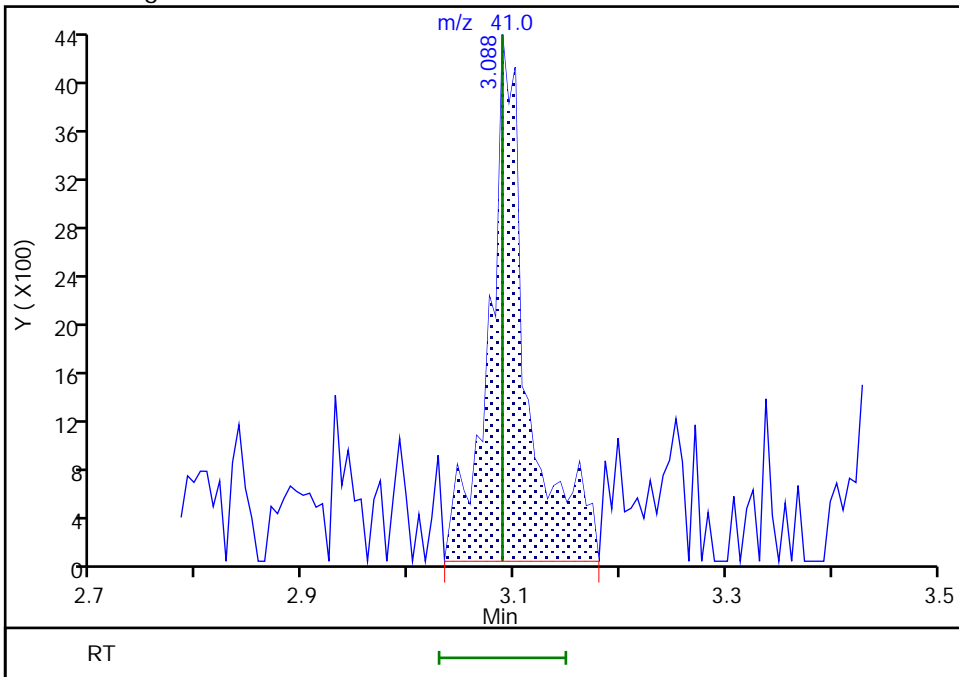
RT: 3.09
Area: 8961
Amount: 0.540219
Amount Units: ug/L

Processing Integration Results



RT: 3.09
Area: 10726
Amount: 0.629202
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:55:59
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

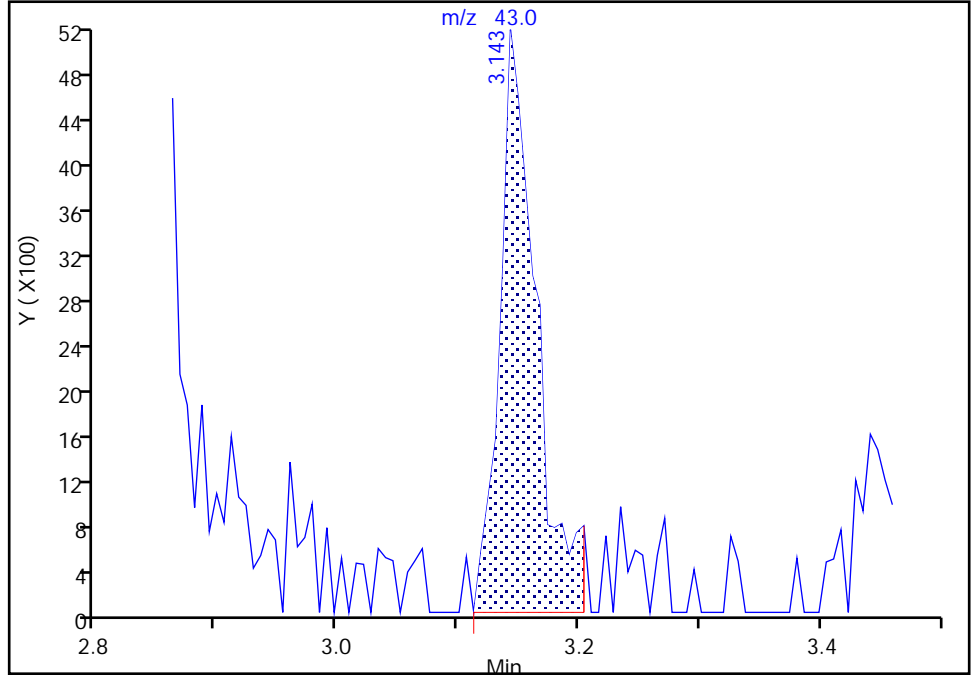
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

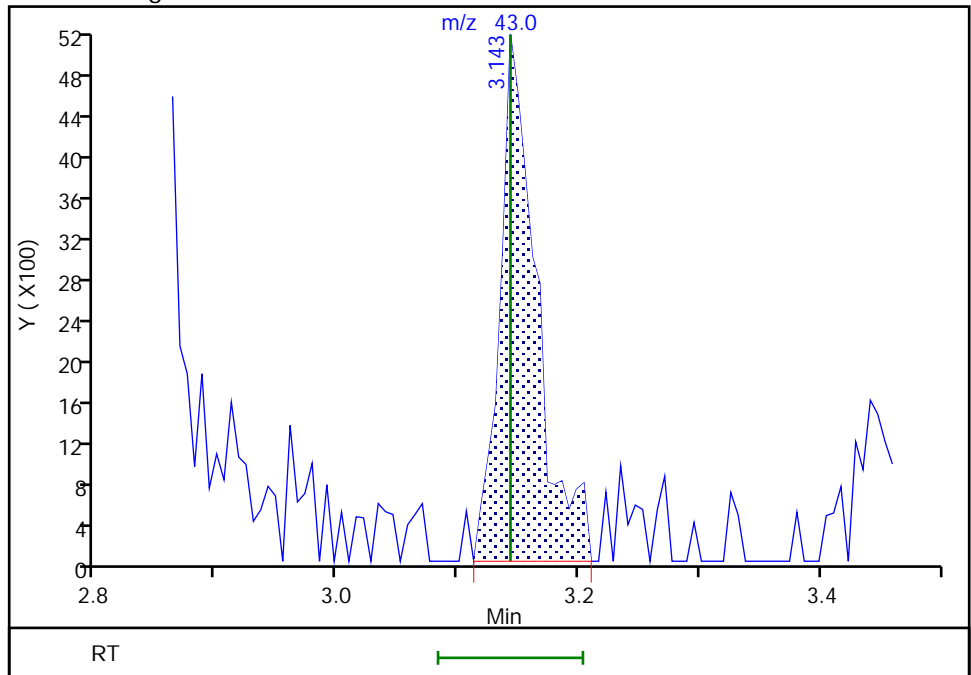
RT: 3.14
Area: 10797
Amount: 1.072511
Amount Units: ug/L

Processing Integration Results



RT: 3.14
Area: 10797
Amount: 1.073869
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 11:58:27
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

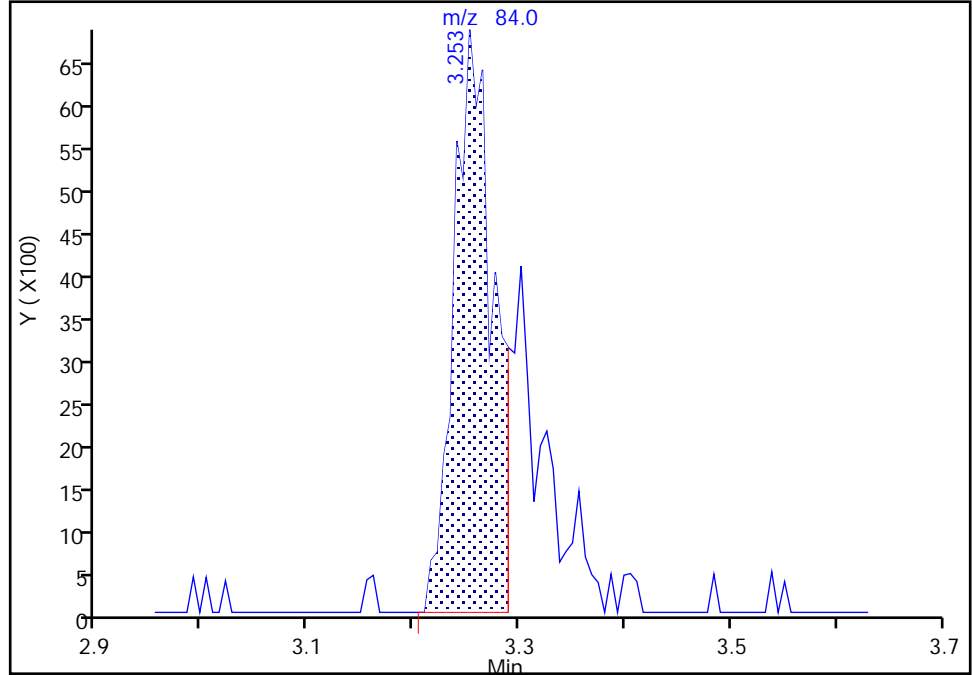
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

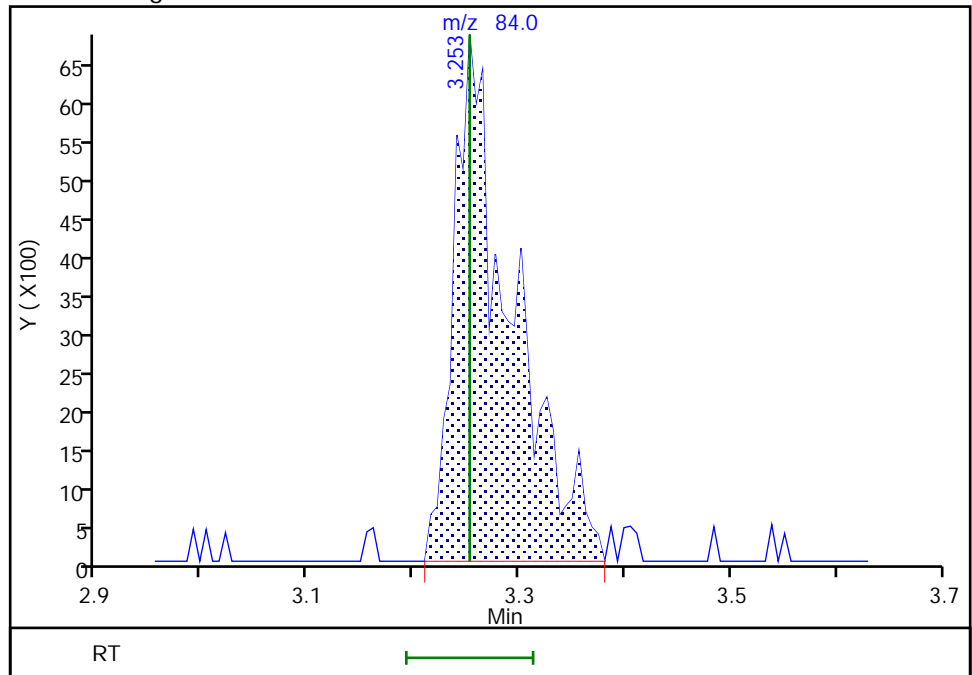
RT: 3.25
Area: 17805
Amount: 1.289031
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 25876
Amount: 0.589276
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:43:43
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

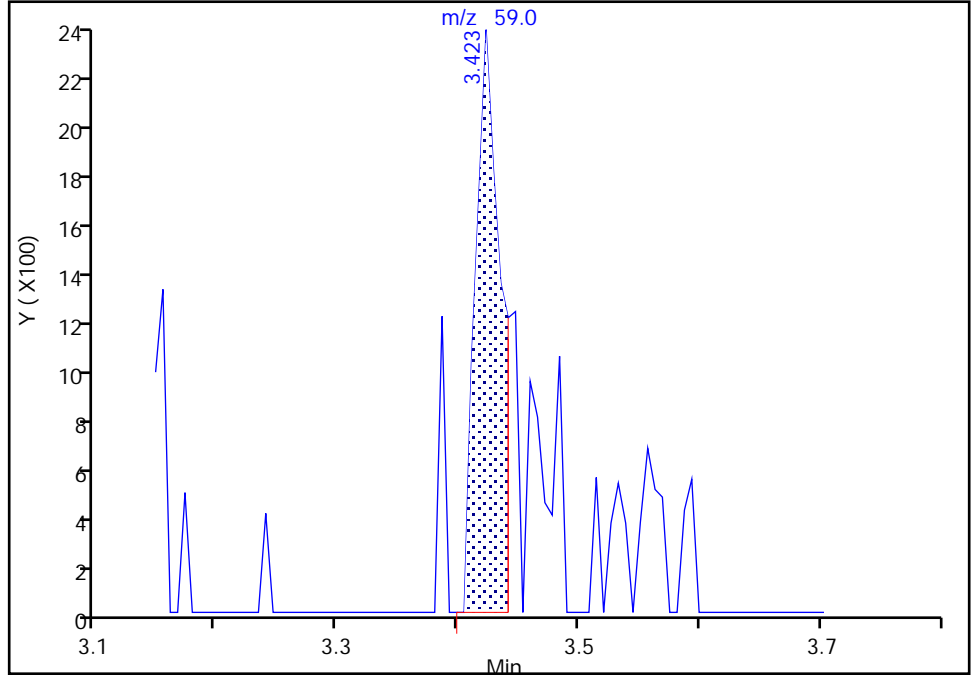
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

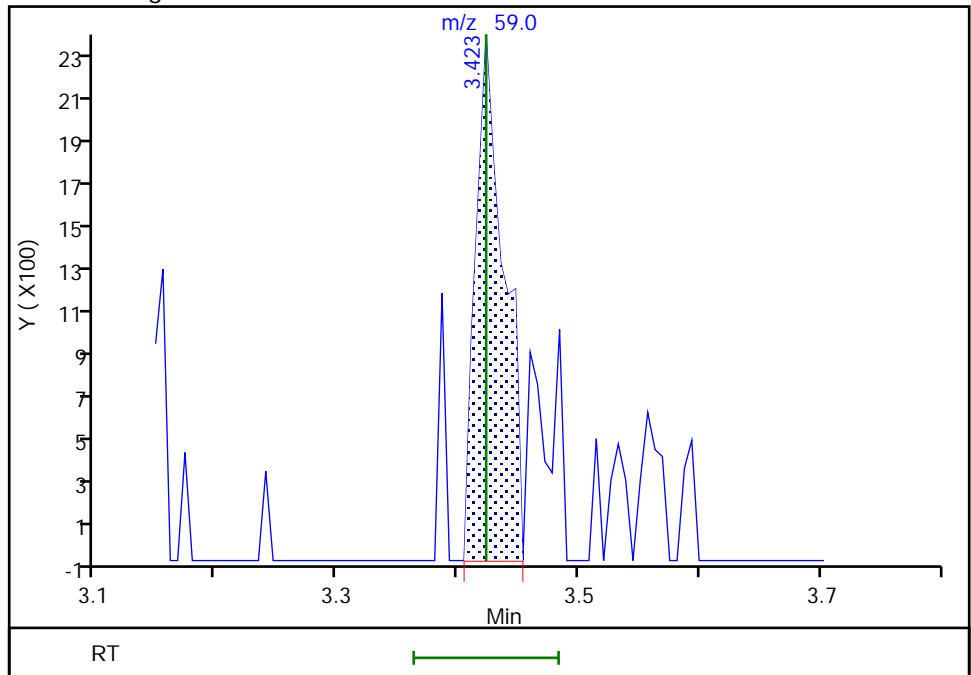
RT: 3.42
Area: 3386
Amount: 3.028648
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 3836
Amount: 2.956164
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:47:12
Audit Action: Manually Integrated

TestAmerica Buffalo

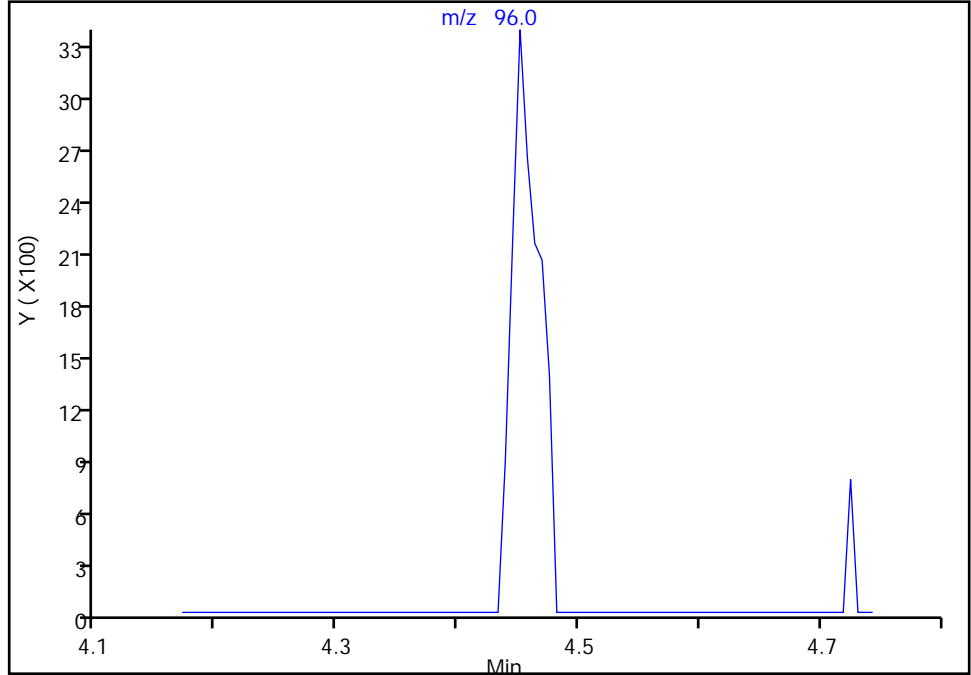
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

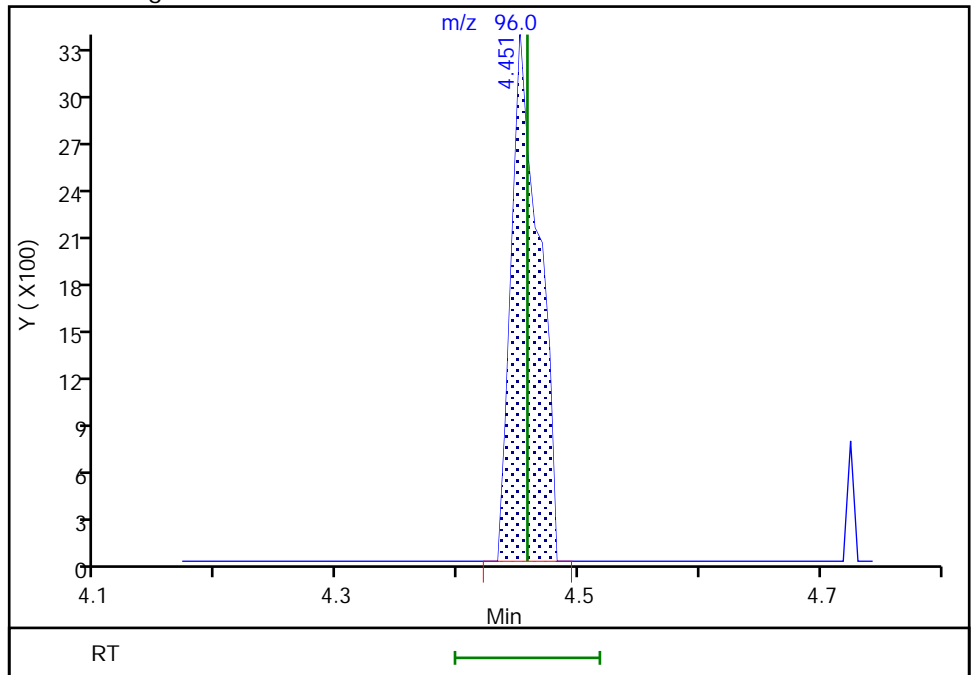
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.45
Area: 5275
Amount: 0.456176
Amount Units: ug/L



TestAmerica Buffalo

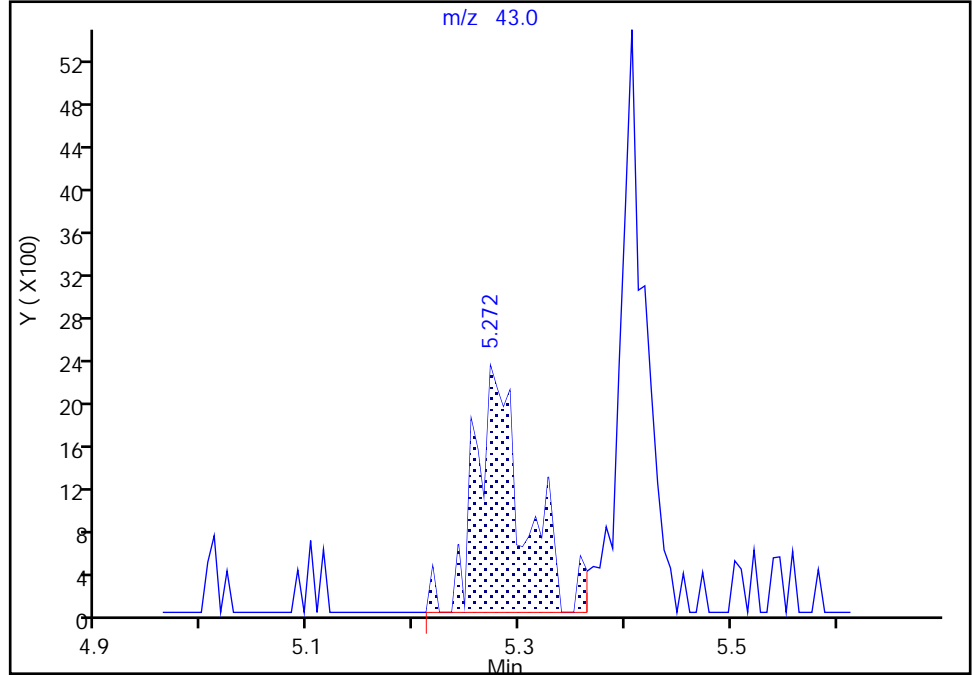
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

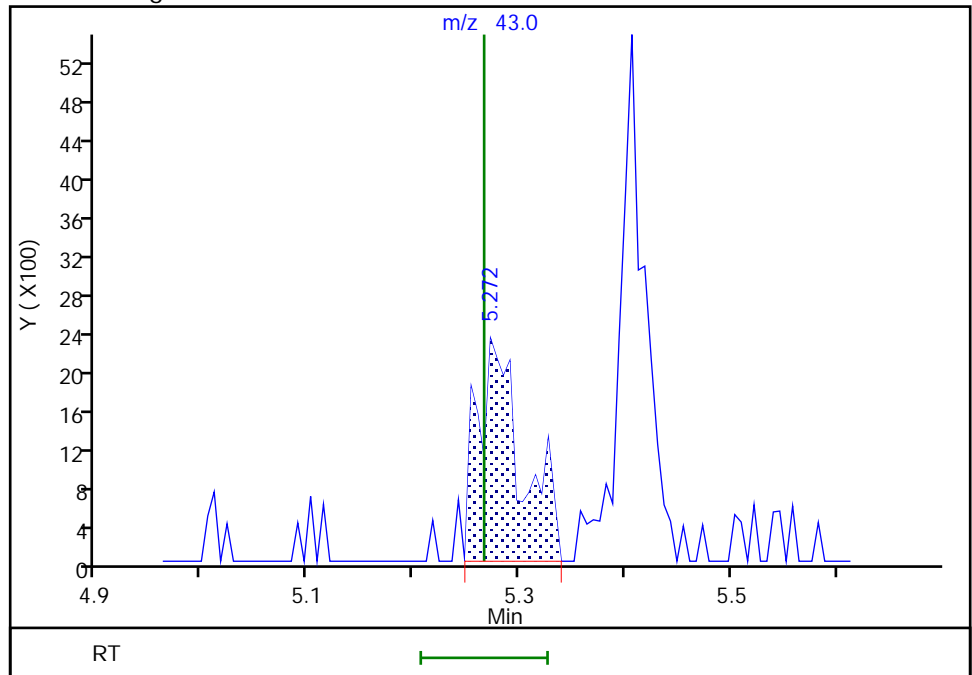
RT: 5.27
Area: 7407
Amount: 13.382108
Amount Units: ug/L

Processing Integration Results



RT: 5.27
Area: 6683
Amount: 12.234095
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:00:59
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

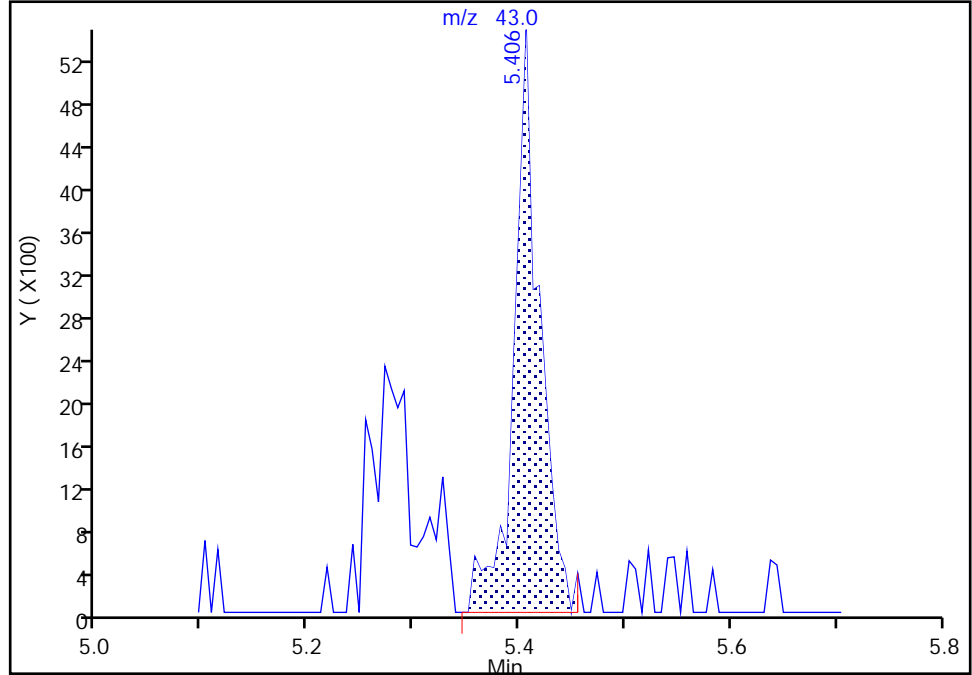
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

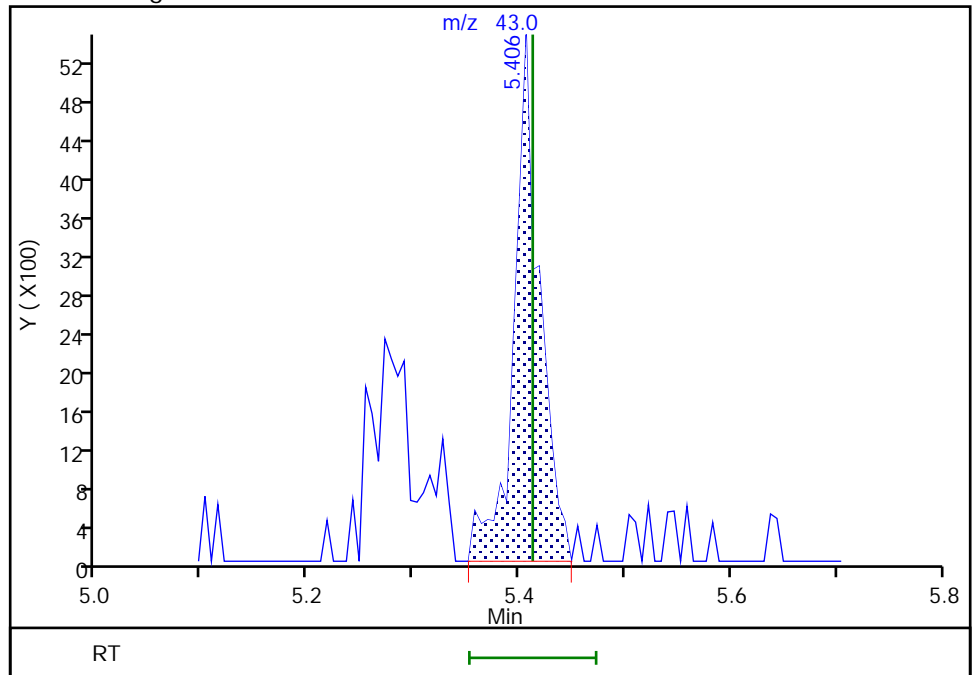
RT: 5.41
Area: 9374
Amount: 0.547303
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 9240
Amount: 0.535437
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:01:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

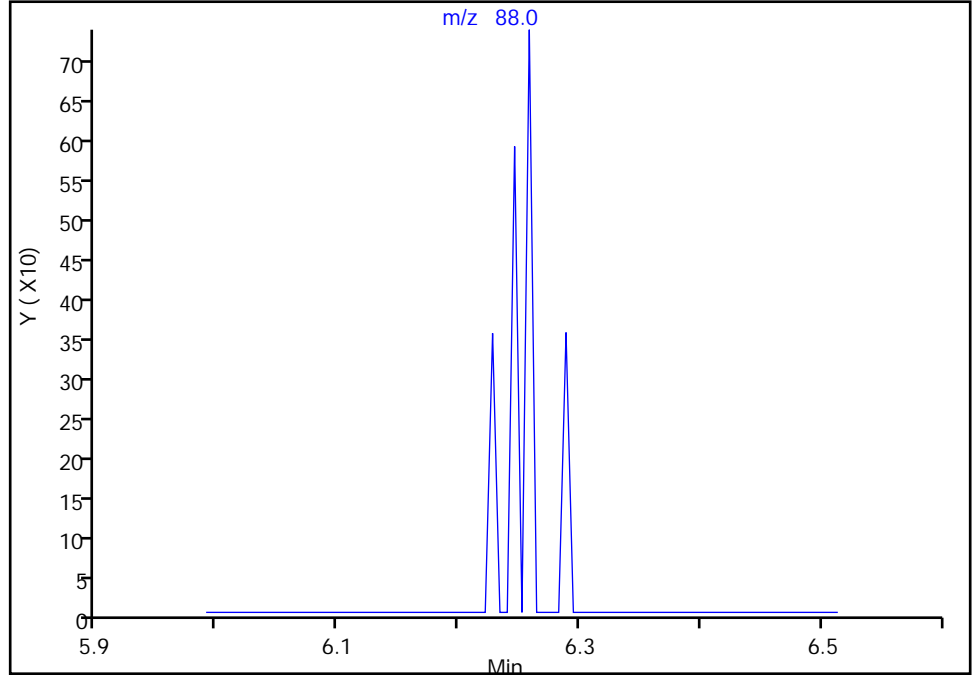
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

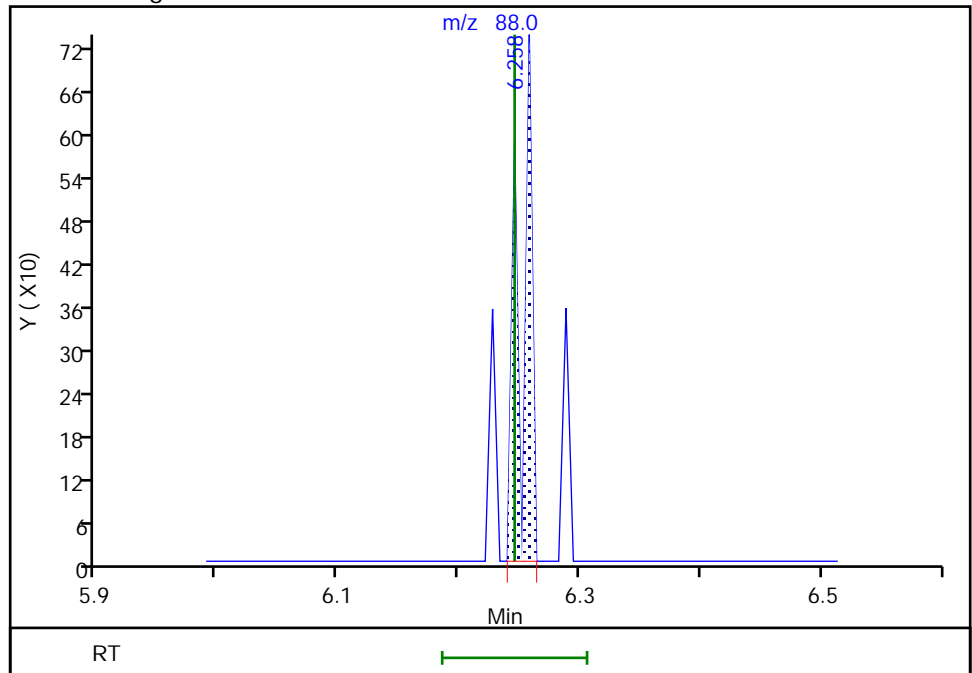
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 485
Amount: 18.689662
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:10
Audit Action: Manually Integrated

Audit Reason: Assign Peak

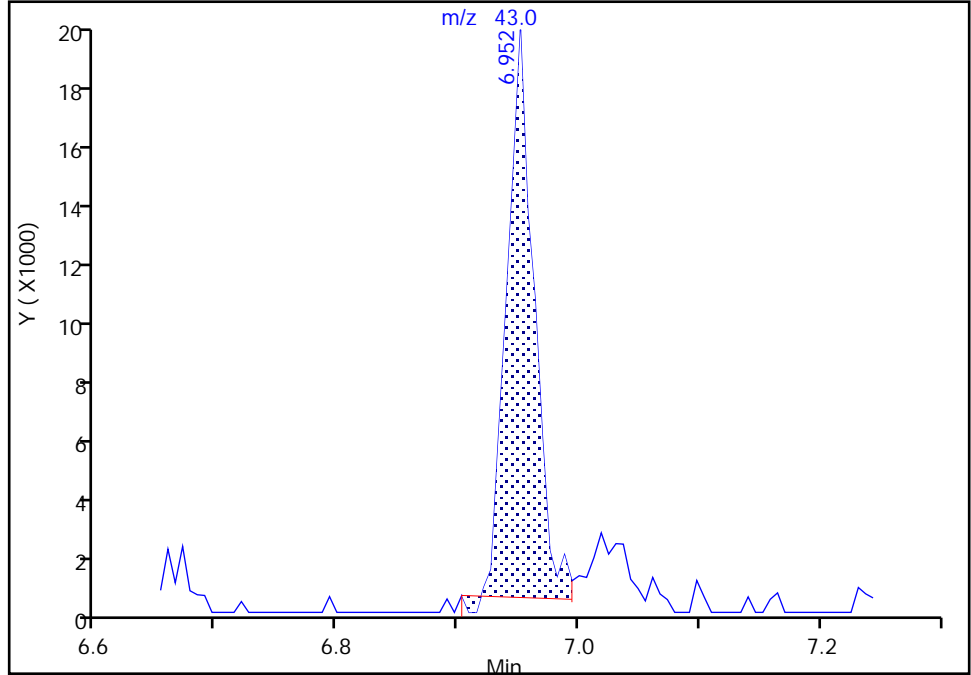
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1
Signal: 1

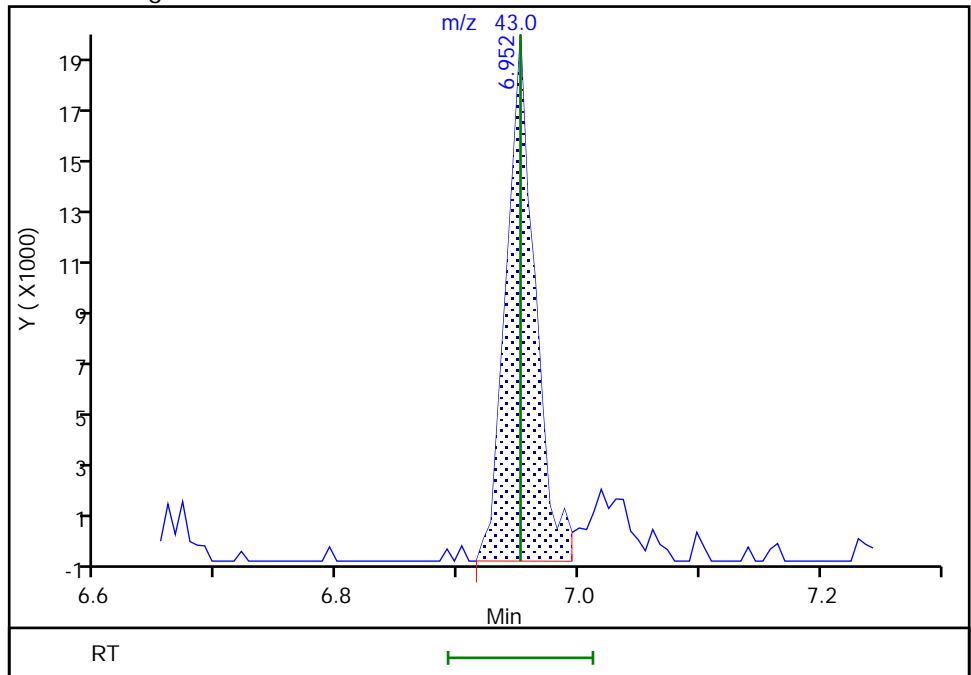
RT: 6.95
Area: 29564
Amount: 2.370232
Amount Units: ug/L

Processing Integration Results



RT: 6.95
Area: 32292
Amount: 2.560938
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:03:07
Audit Action: Manually Integrated

TestAmerica Buffalo

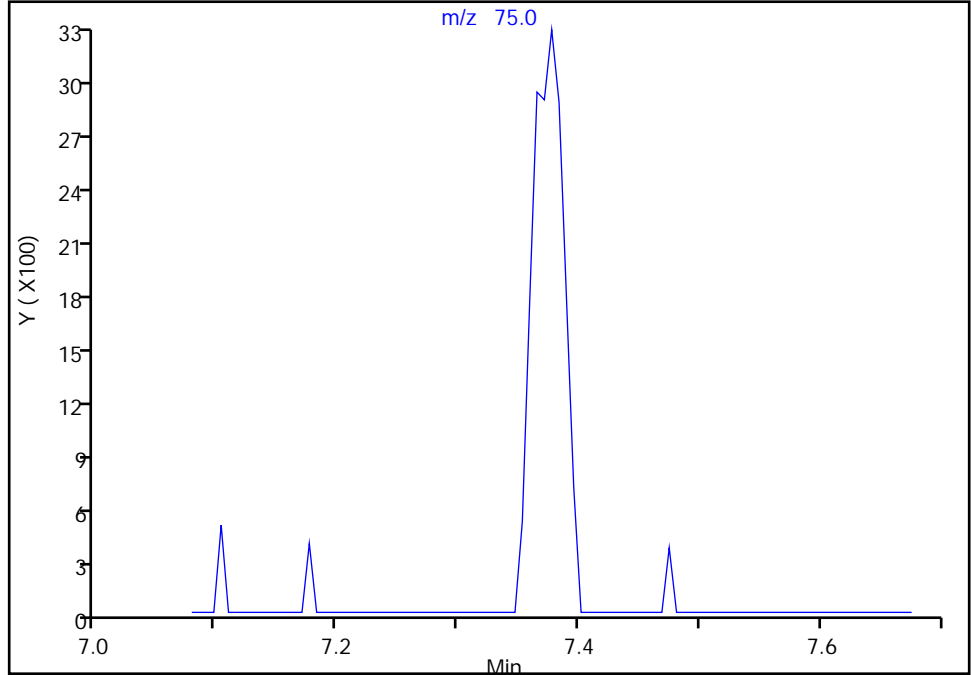
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

77 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

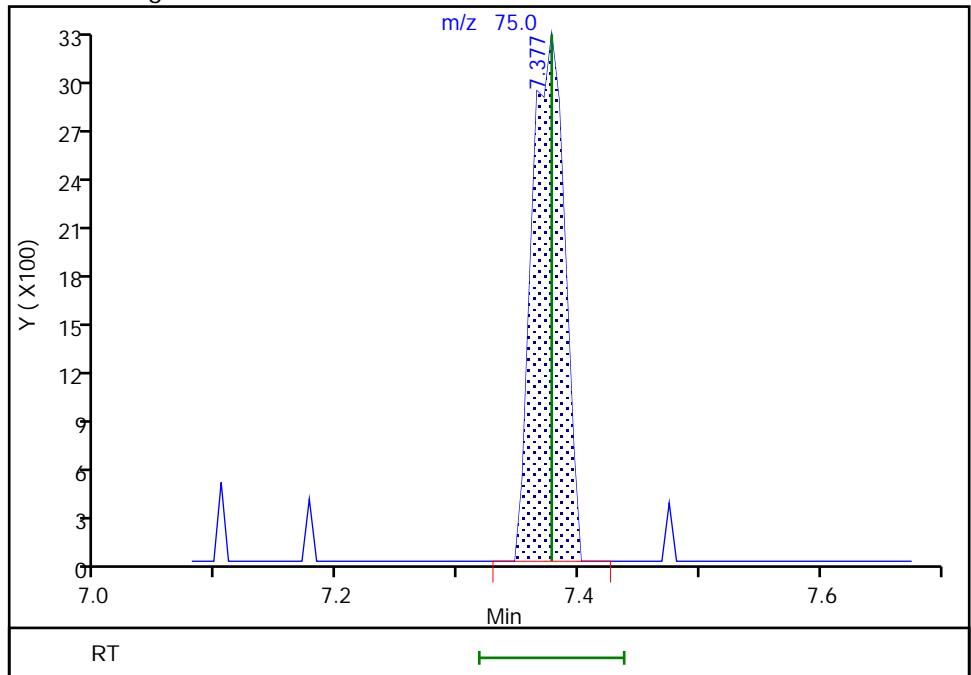
Not Detected
Expected RT: 7.38

Processing Integration Results



Manual Integration Results

RT: 7.38
Area: 6057
Amount: 0.418787
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:20
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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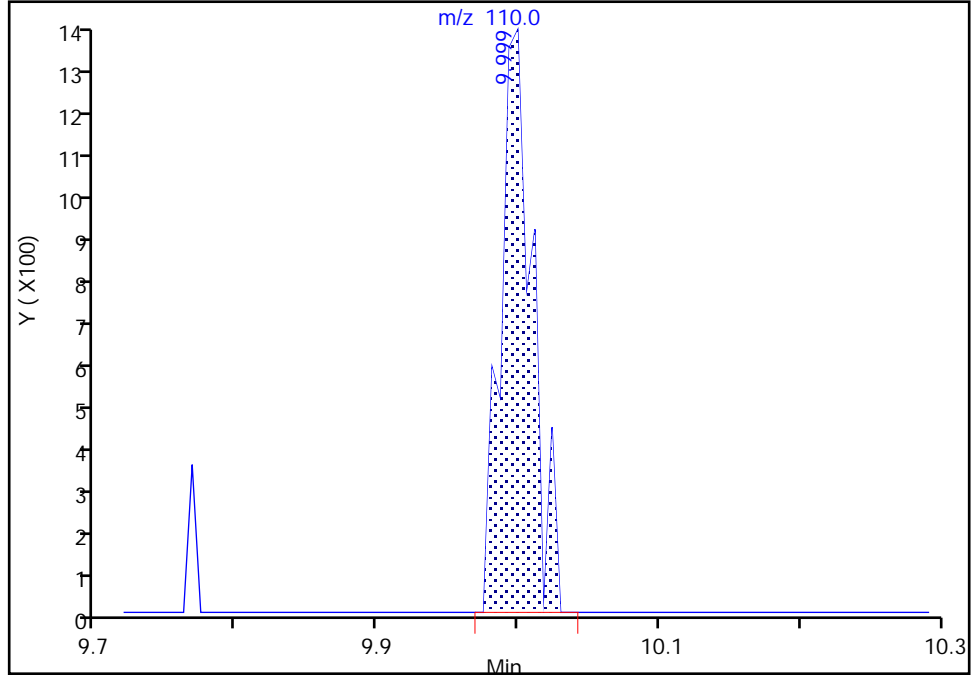
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4
Signal: 1

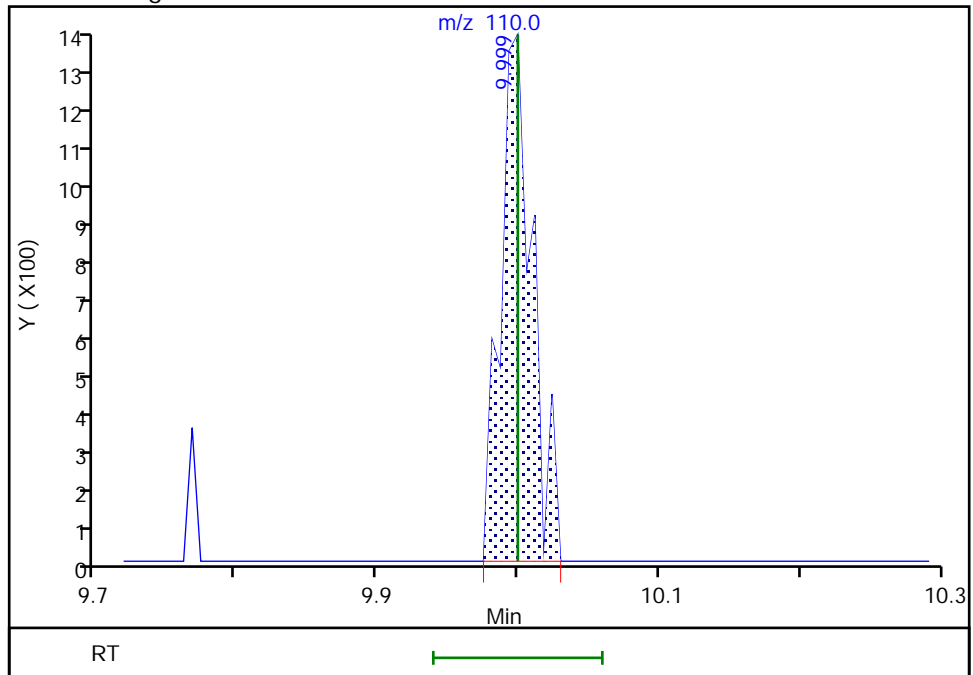
RT: 10.00
Area: 2169
Amount: 0.520804
Amount Units: ug/L

Processing Integration Results



RT: 10.00
Area: 2169
Amount: 0.525119
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:04:14
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

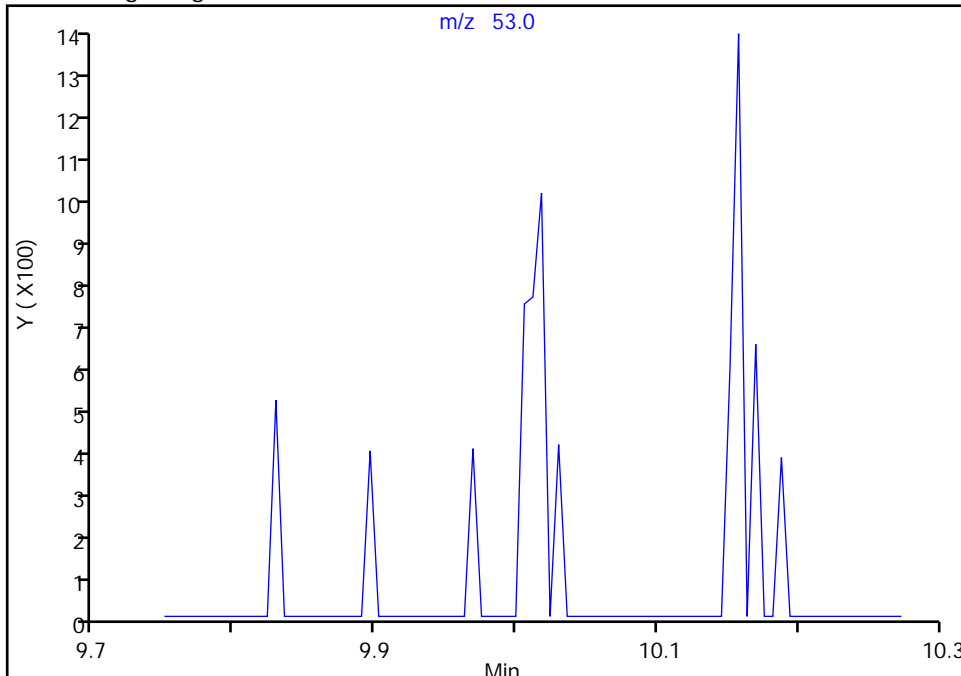
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

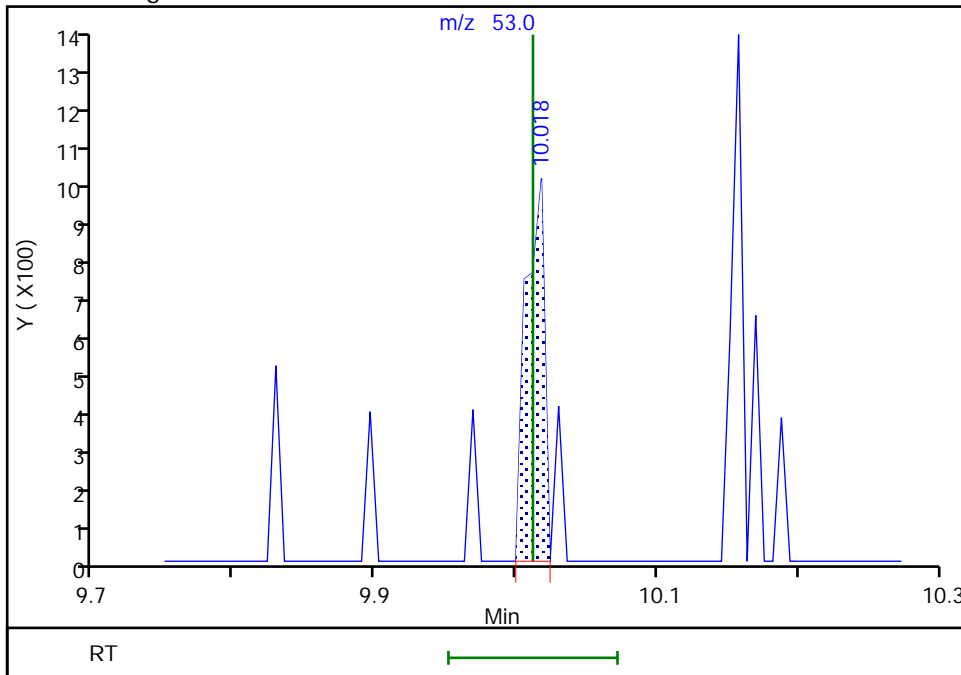
Not Detected
Expected RT: 10.01

Processing Integration Results



Manual Integration Results

RT: 10.02
Area: 863
Amount: 0.772476
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:04:23
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

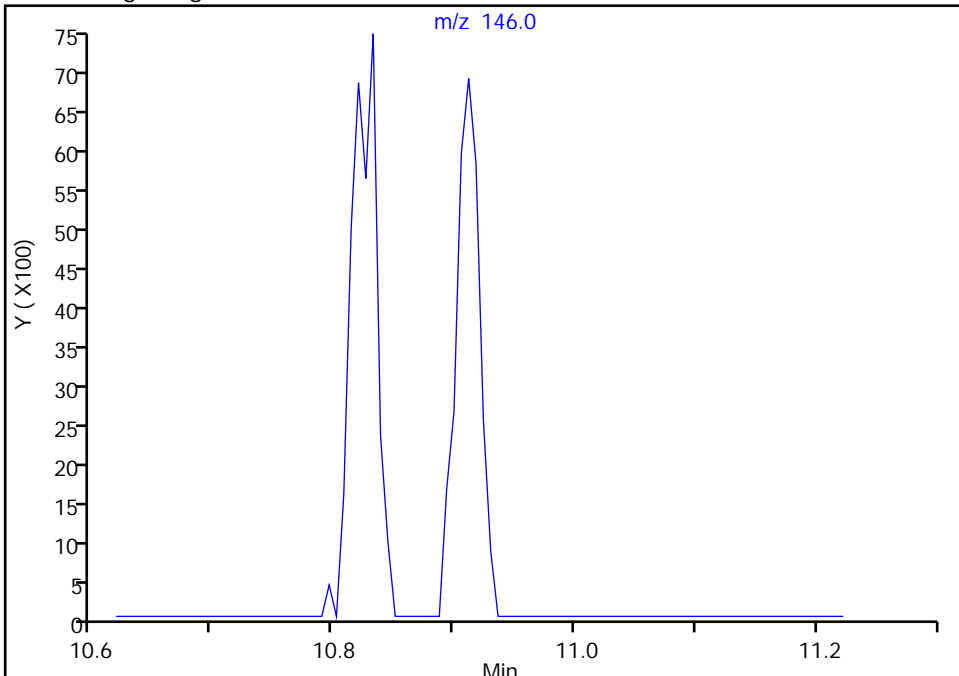
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

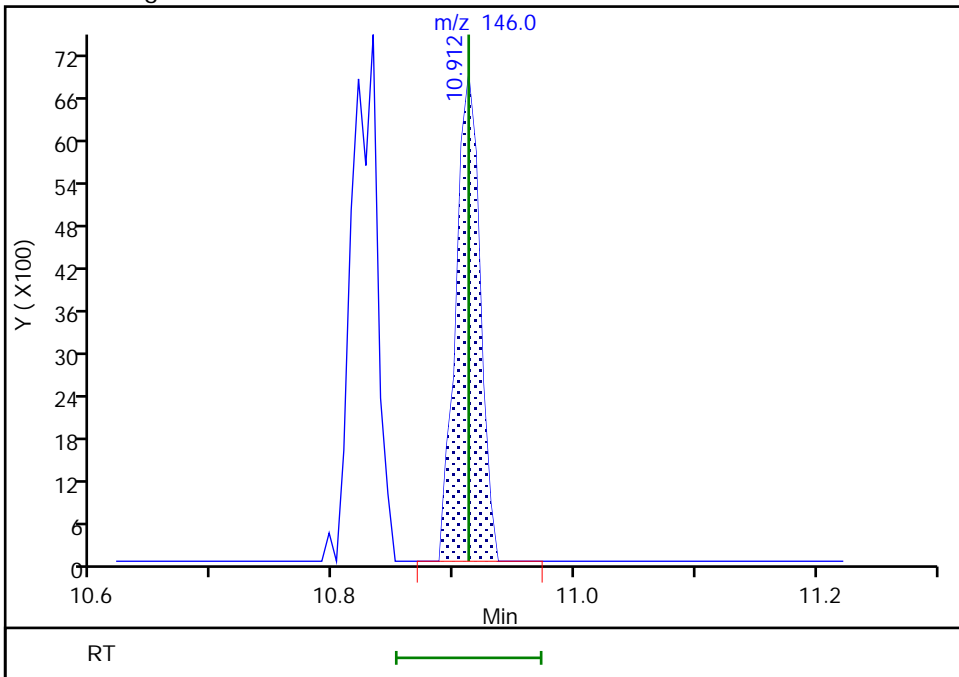
Signal: 1

Not Detected
Expected RT: 10.91

Processing Integration Results



Manual Integration Results



RT: 10.91
Area: 9616
Amount: 0.415448
Amount Units: ug/L

TestAmerica Buffalo

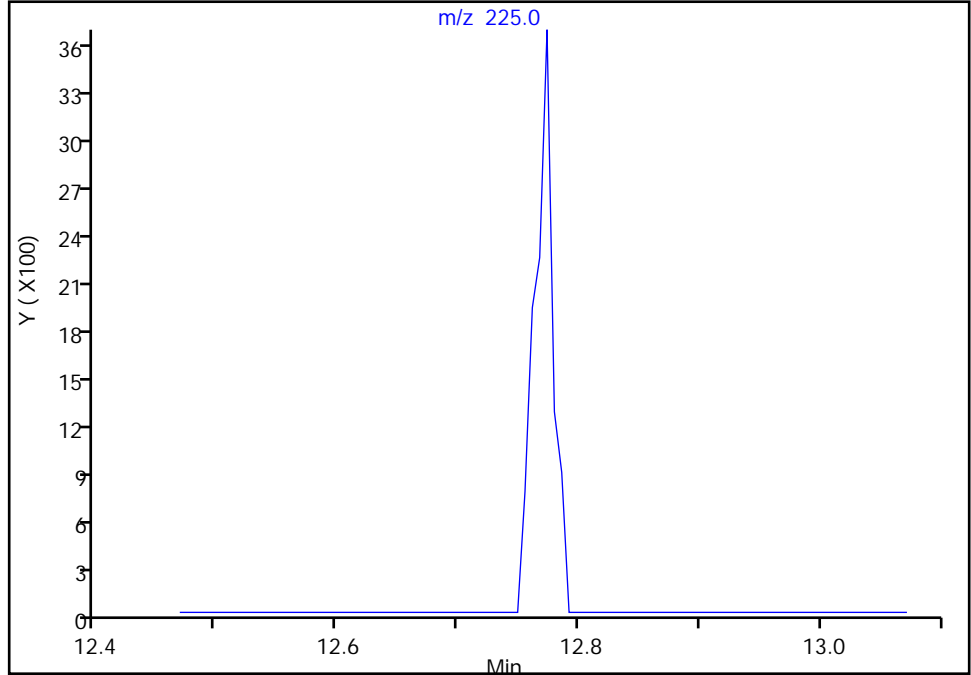
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Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

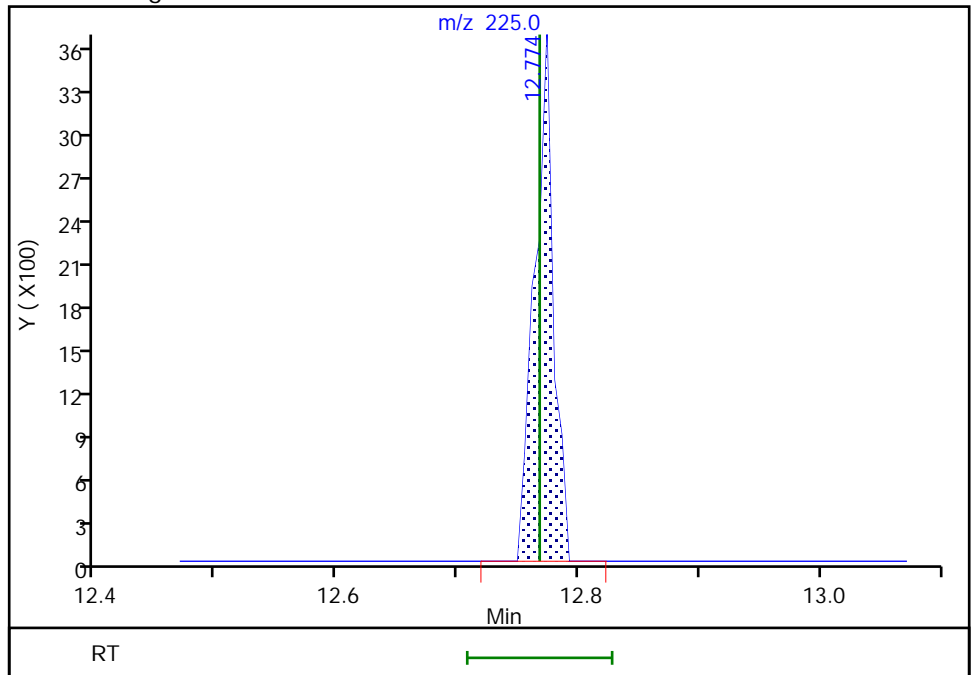
Not Detected
Expected RT: 12.77

Processing Integration Results



Manual Integration Results

RT: 12.77
Area: 3906
Amount: 0.514056
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:46:00
Audit Action: Manually Integrated

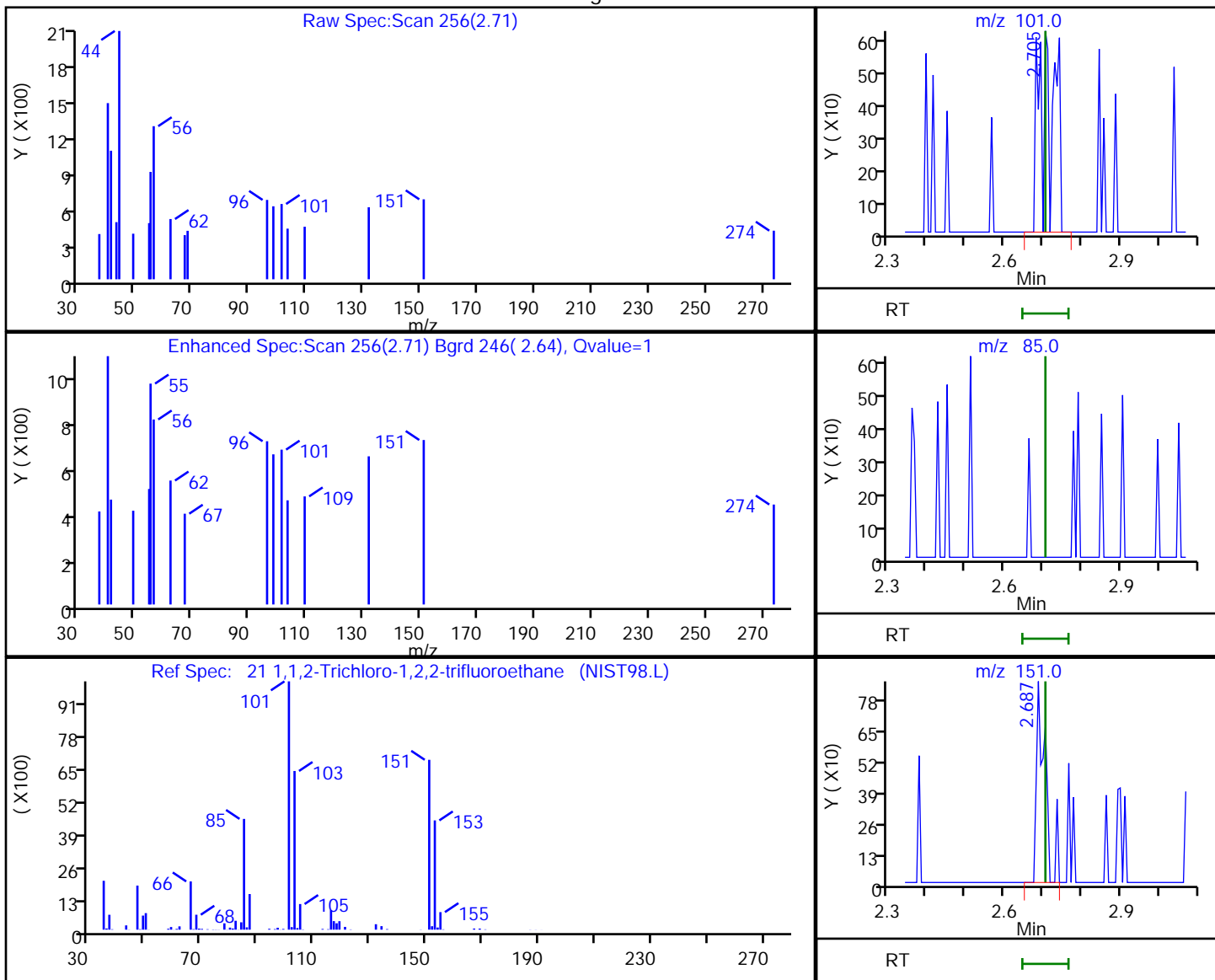
Audit Reason: Assign Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
 Lims ID: IC 0.5
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.71	101.00	1737	0.614237
2.71	85.00	0	
2.69	151.00	1339	

Reviewer: moffata, 21-Jun-2018 11:57:25

Audit Action: Marked Compound Undetected

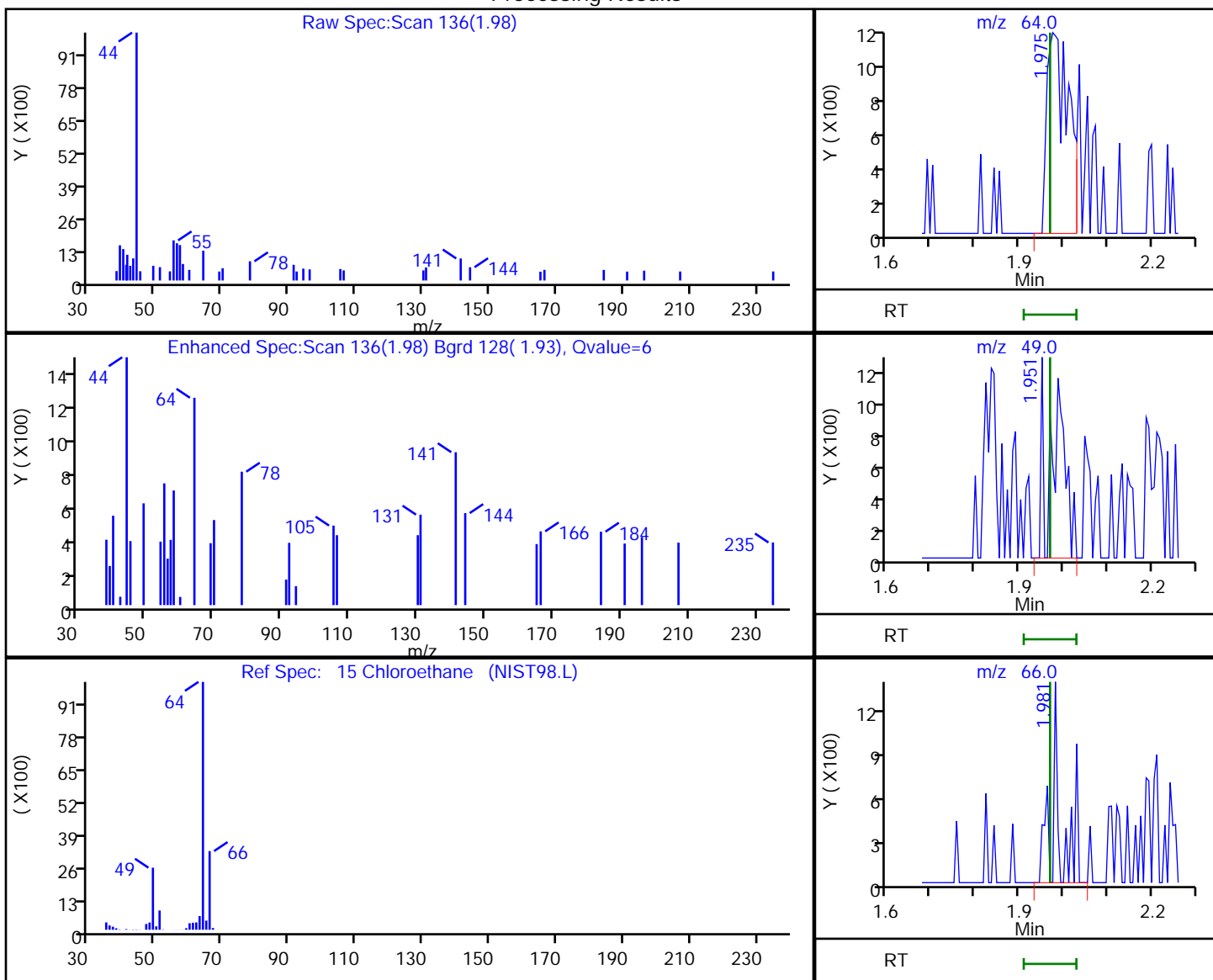
Audit Reason: Invalid Compound ID

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
 Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
 Lims ID: IC 0.5
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.98	64.00	4050	0.494855
1.95	49.00	2720	
1.98	66.00	1758	

Reviewer: moffata, 21-Jun-2018 11:56:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-Jun-2018 14:14:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0072482-006
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:40 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:27:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	196233	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	387033	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	370596	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	58	231529	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	156518	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	938964	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	293518	25.0	25.4	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	36	7348	1.00	0.7775	M
12 Chloromethane	50	1.476	1.464	0.012	78	15313	1.00	1.02	M
13 Vinyl chloride	62	1.555	1.549	0.006	27	12290	1.00	0.9206	
151 Butadiene	54	1.574	1.574	0.000	65	14101	1.00	1.01	M
14 Bromomethane	94	1.896	1.872	0.024	21	7740	1.00	1.08	
15 Chloroethane	64	1.987	1.969	0.018	44	7969	1.00	0.9863	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	35	18841	1.00	1.06	M
17 Trichlorofluoromethane	101	2.194	2.194	0.000	23	9809	1.00	0.7755	M
18 Ethyl ether	59	2.498	2.492	0.006	68	10116	1.00	0.8990	M
20 Acrolein	56	2.687	2.687	0.000	62	10896	5.00	5.06	
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.705	0.012	1	4012	1.00	0.8855	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	48	5891	1.00	0.6796	M
23 Acetone	43	2.857	2.851	0.006	94	21919	5.00	5.81	M
25 Iodomethane	142	2.894	2.894	0.000	76	9518	1.00	0.7508	
26 Carbon disulfide	76	2.918	2.918	0.000	61	21977	1.00	0.7953	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	78	13283	1.00	0.7904	M
27 Methyl acetate	43	3.155	3.143	0.012	96	18391	2.00	1.86	
30 Methylene Chloride	84	3.277	3.253	0.024	73	27400	1.00	0.7662	M
31 2-Methyl-2-propanol	59	3.435	3.423	0.012	67	10697	10.0	8.36	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	87	29403	1.00	0.9052	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	71	8953	1.00	0.9025	
33 Acrylonitrile	53	3.539	3.539	0.000	98	54039	10.0	10.3	M
35 Hexane	57	3.660	3.660	0.000	77	16451	1.00	0.8994	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	59	18747	1.00	0.8971	
37 Vinyl acetate	43	3.952	3.952	0.000	95	48840	2.00	2.03	
44 2,2-Dichloropropane	77	4.421	4.415	0.006	58	10146	1.00	0.8761	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	38	9571	1.00	0.8396	M
43 2-Butanone (MEK)	43	4.506	4.494	0.012	90	28054	5.00	4.84	M
48 Chlorobromomethane	128	4.701	4.695	0.006	61	4881	1.00	0.8962	
49 Tetrahydrofuran	42	4.713	4.713	0.000	83	9288	2.00	2.33	
50 Chloroform	83	4.774	4.774	0.000	55	18254	1.00	1.00	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	59	11720	1.00	0.8626	
52 Cyclohexane	56	4.889	4.883	0.006	66	14257	1.00	0.7800	
55 Carbon tetrachloride	117	5.011	5.011	0.000	69	9145	1.00	0.8032	M
54 1,1-Dichloropropene	75	5.035	5.029	0.006	71	11150	1.00	0.8051	
57 Benzene	78	5.236	5.236	0.000	41	36984	1.00	0.8884	
53 Isobutyl alcohol	43	5.266	5.266	0.000	49	12199	25.0	22.7	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	71	16247	1.00	0.9660	M
59 n-Heptane	43	5.406	5.412	-0.006	79	15455	1.00	0.9085	
62 Trichloroethene	95	5.850	5.850	0.000	66	9061	1.00	0.8437	
64 Methylcyclohexane	83	5.954	5.960	-0.006	65	12551	1.00	0.7674	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	64	12180	1.00	0.9699	
67 Dibromomethane	93	6.240	6.234	0.006	78	5931	1.00	0.9046	
66 1,4-Dioxane	88	6.258	6.246	0.012	1	597	20.0	20.1	M
68 Dichlorobromomethane	83	6.398	6.386	0.012	28	10219	1.00	0.8092	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	66	8583	1.00	1.02	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	59	13358	1.00	0.8413	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	89	59826	5.00	4.84	
74 Toluene	92	7.091	7.085	0.006	73	24418	1.00	0.9491	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	67	12197	1.00	0.8606	
75 Ethyl methacrylate	69	7.414	7.414	0.000	72	12849	1.00	0.9248	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	54	7331	1.00	0.9458	
81 Tetrachloroethene	166	7.621	7.615	0.006	82	9718	1.00	0.8945	
82 1,3-Dichloropropane	76	7.736	7.730	0.006	59	15786	1.00	0.9657	
80 2-Hexanone	43	7.791	7.791	0.000	92	44500	5.00	4.89	
83 Chlorodibromomethane	129	7.961	7.961	0.000	36	7156	1.00	0.8118	M
84 Ethylene Dibromide	107	8.071	8.071	0.000	53	10524	1.00	1.08	
87 Chlorobenzene	112	8.539	8.539	0.000	83	24166	1.00	0.8571	
88 Ethylbenzene	91	8.631	8.631	0.000	93	41123	1.00	0.8869	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	37	8227	1.00	0.9023	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	17890	1.00	0.9484	
91 o-Xylene	106	9.178	9.178	0.000	80	15140	1.00	0.8457	
92 Styrene	104	9.209	9.209	0.000	51	25278	1.00	0.8227	
95 Bromoform	173	9.470	9.464	0.006	55	4863	1.00	0.8636	
94 Isopropylbenzene	105	9.561	9.561	0.000	77	39437	1.00	0.8441	
101 Bromobenzene	156	9.908	9.908	0.000	70	10335	1.00	0.8743	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	62	11498	1.00	0.9057	
99 N-Propylbenzene	91	9.981	9.987	-0.006	91	45097	1.00	0.8326	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	25	3120	1.00	0.7465	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	2682	1.00	1.16	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	89	9082	1.00	0.7790	M
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	71	35625	1.00	0.8789	
105 4-Chlorotoluene	126	10.200	10.200	0.000	48	9952	1.00	0.8330	
106 tert-Butylbenzene	134	10.474	10.474	0.000	74	7151	1.00	0.8276	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	9	33566	1.00	0.8108	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	76	40072	1.00	0.8245	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	82	31836	1.00	0.7610	
111 1,3-Dichlorobenzene	146	10.821	10.827	-0.006	64	20317	1.00	0.8846	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	58	23153	1.00	0.9886	
115 n-Butylbenzene	91	11.210	11.210	0.000	87	30240	1.00	0.8017	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	85	20878	1.00	0.9234	
117 1,2-Dibromo-3-Chloropropan	75	11.989	11.995	-0.006	1	1954	1.00	0.7932	M
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	64	13505	1.00	0.8399	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	45	5693	1.00	0.7405	
121 Naphthalene	128	12.883	12.877	0.006	79	38651	1.00	0.8794	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	62	12729	1.00	0.8584	
S 124 Xylenes, Total	1				0			1.79	
S 126 1,3-Dichloropropene, Total	1				0			1.70	
S 123 Total BTEX	1				0			4.52	
S 125 1,2-Dichloroethene, Total	1				0			1.74	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 1.00

Units: uL

GAS CORP mix_00287

Amount Added: 1.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D

Injection Date: 20-Jun-2018 14:14:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

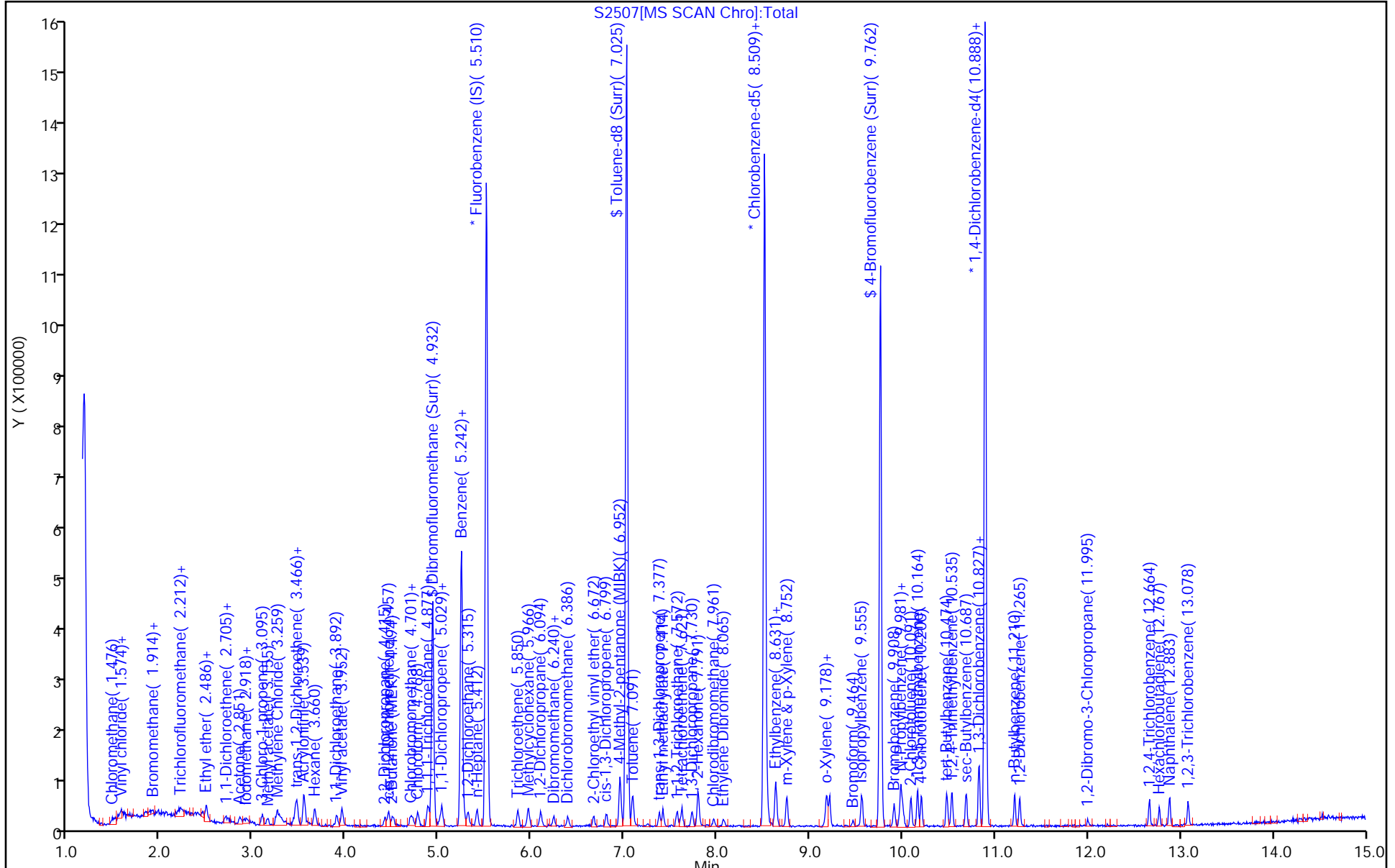
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

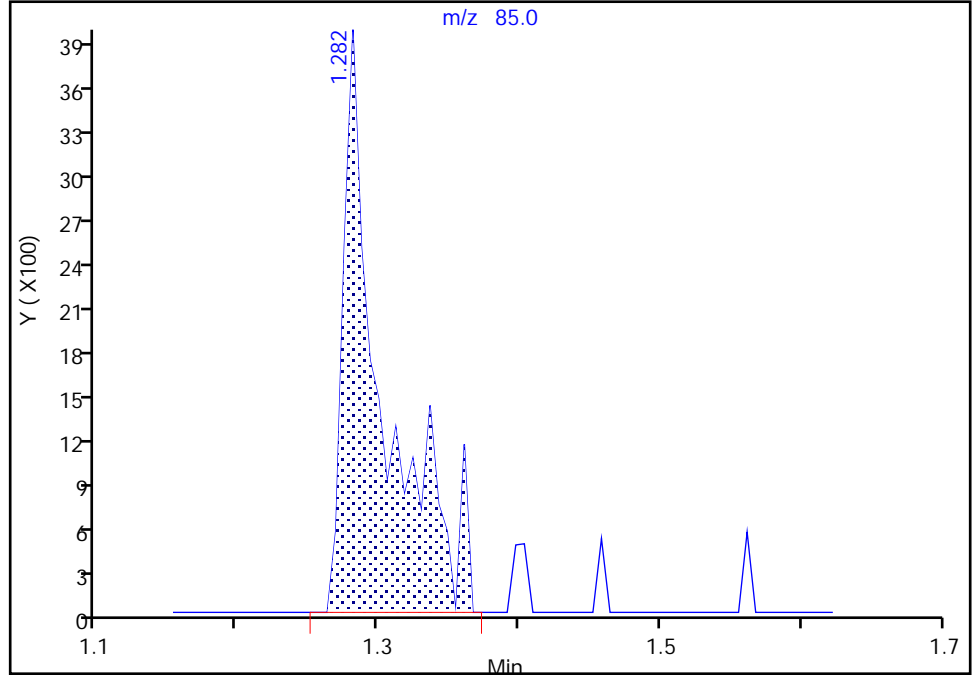
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

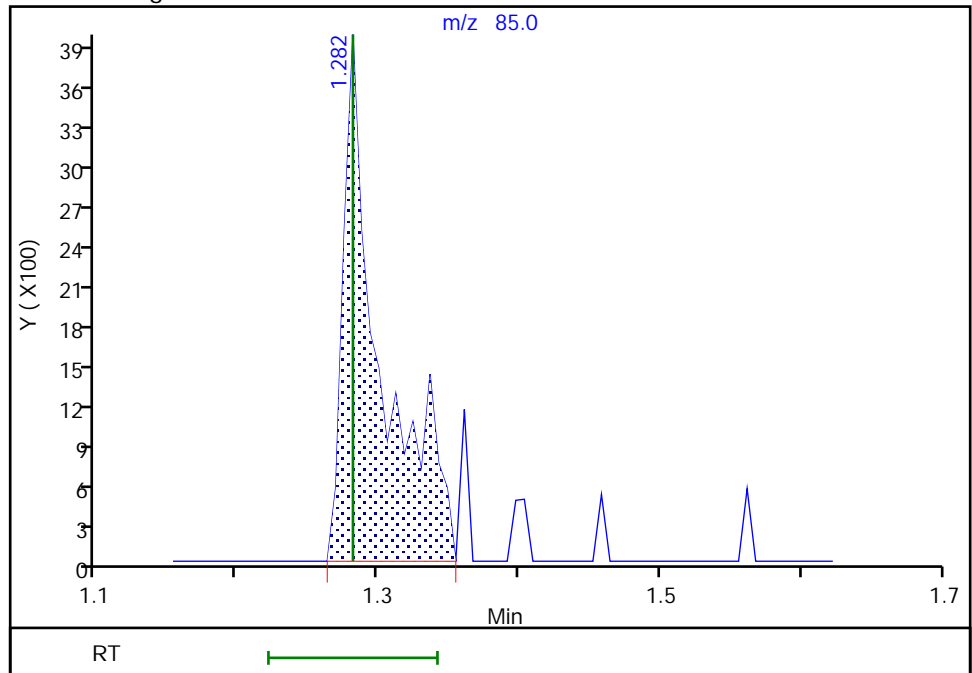
RT: 1.28
Area: 7767
Amount: 0.815608
Amount Units: ug/L

Processing Integration Results



RT: 1.28
Area: 7348
Amount: 0.777451
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:05:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

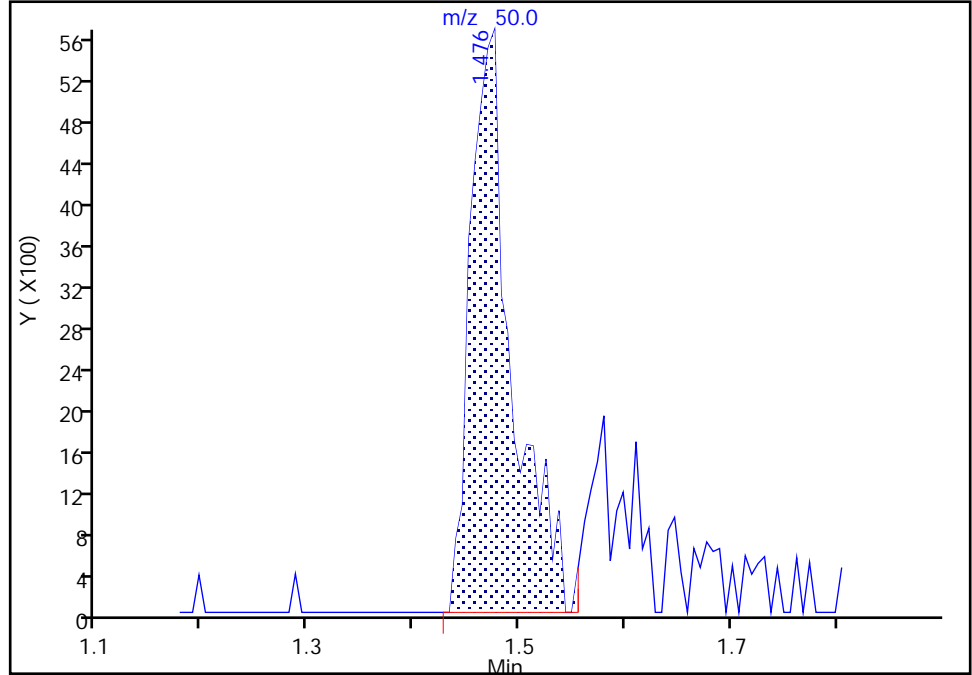
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

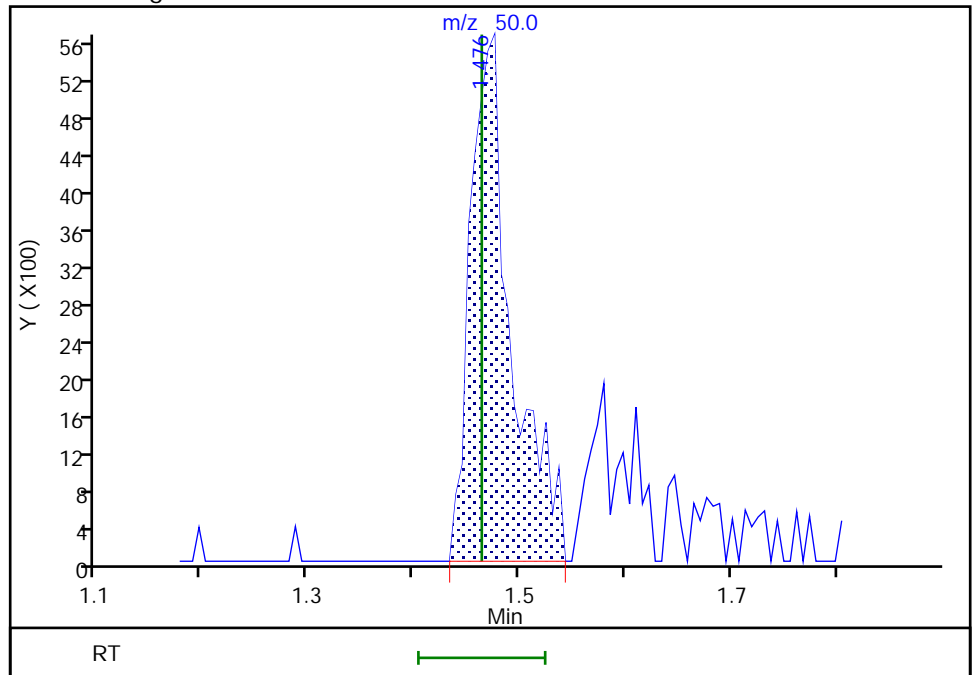
RT: 1.48
Area: 15473
Amount: 1.029331
Amount Units: ug/L

Processing Integration Results



RT: 1.48
Area: 15313
Amount: 1.020044
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:05:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

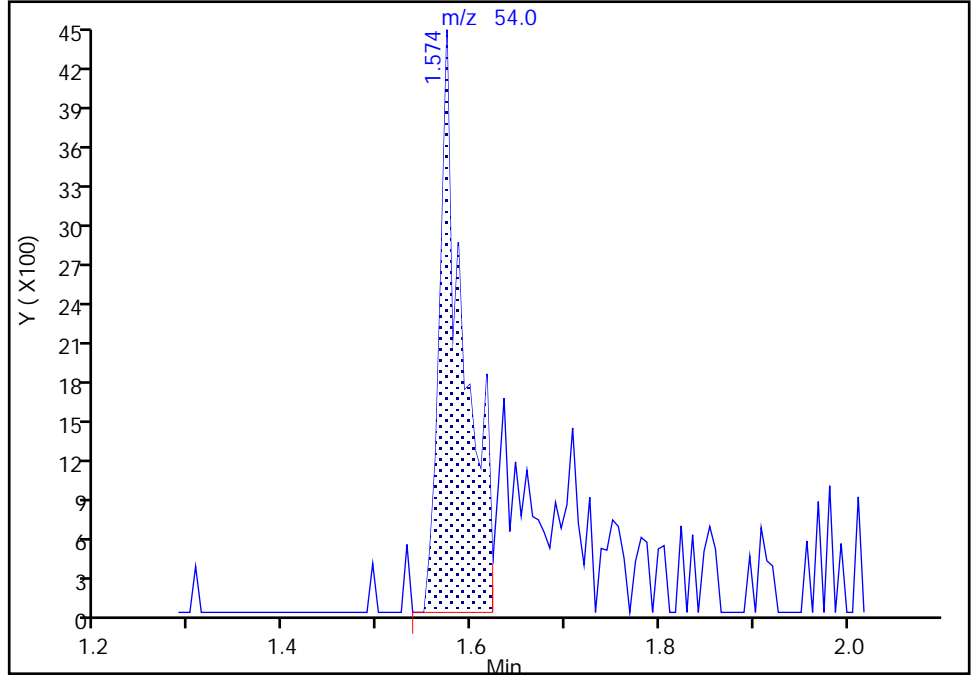
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

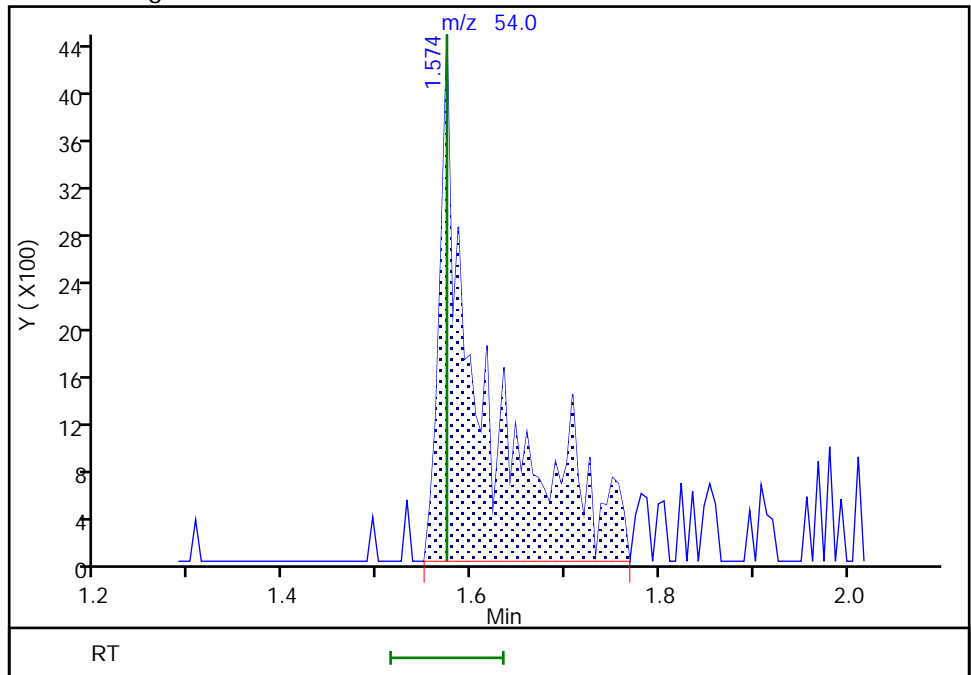
RT: 1.57
Area: 7860
Amount: 0.579263
Amount Units: ug/L

Processing Integration Results



RT: 1.57
Area: 14101
Amount: 1.012805
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:55:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

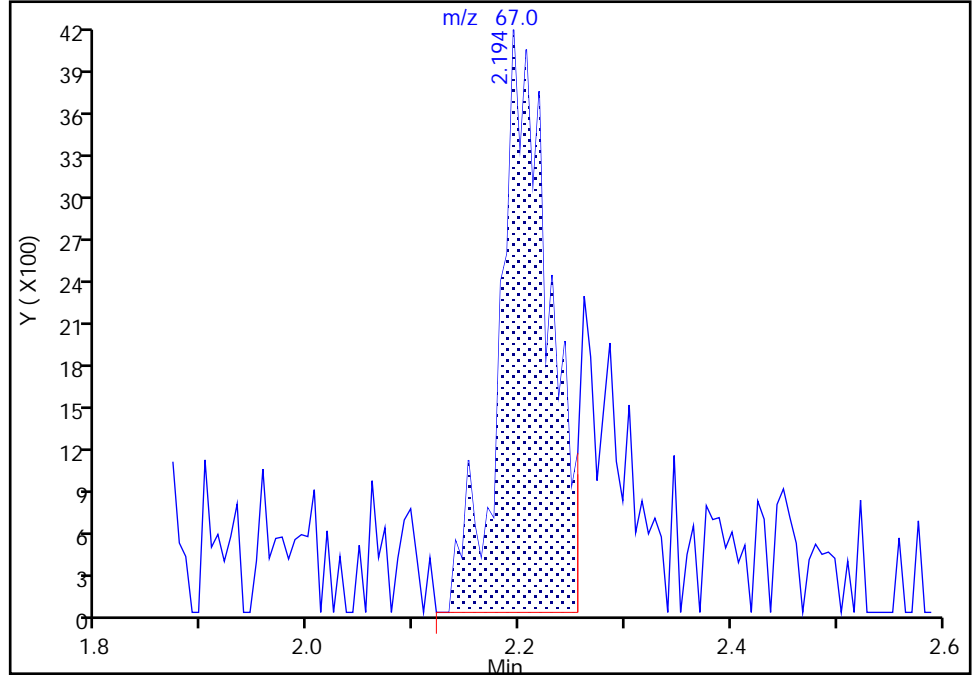
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

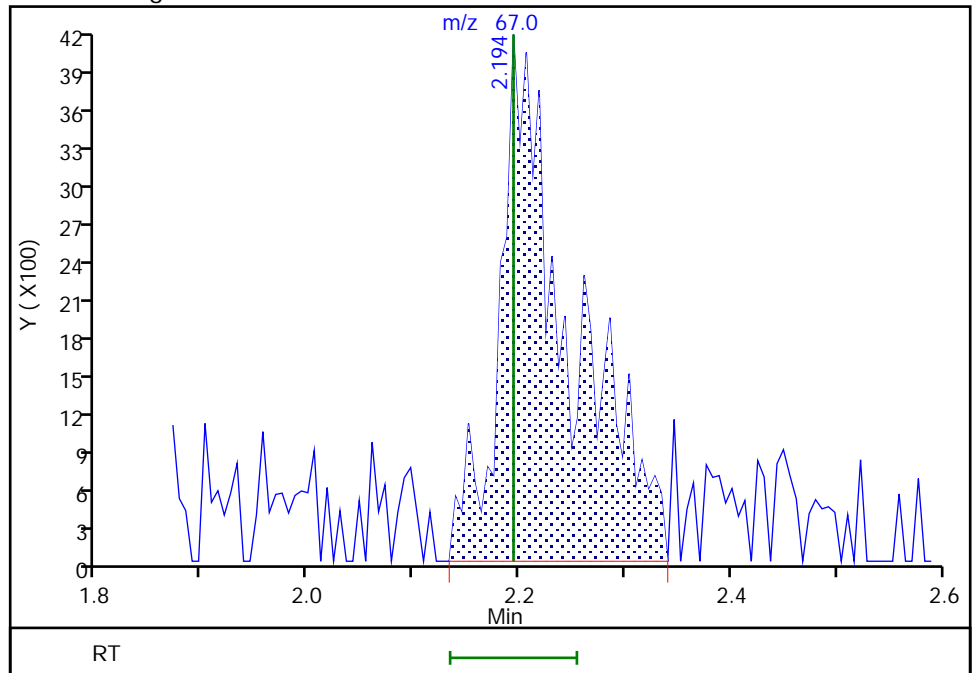
RT: 2.19
Area: 13440
Amount: 0.850503
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 18841
Amount: 1.064342
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 20:49:44
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

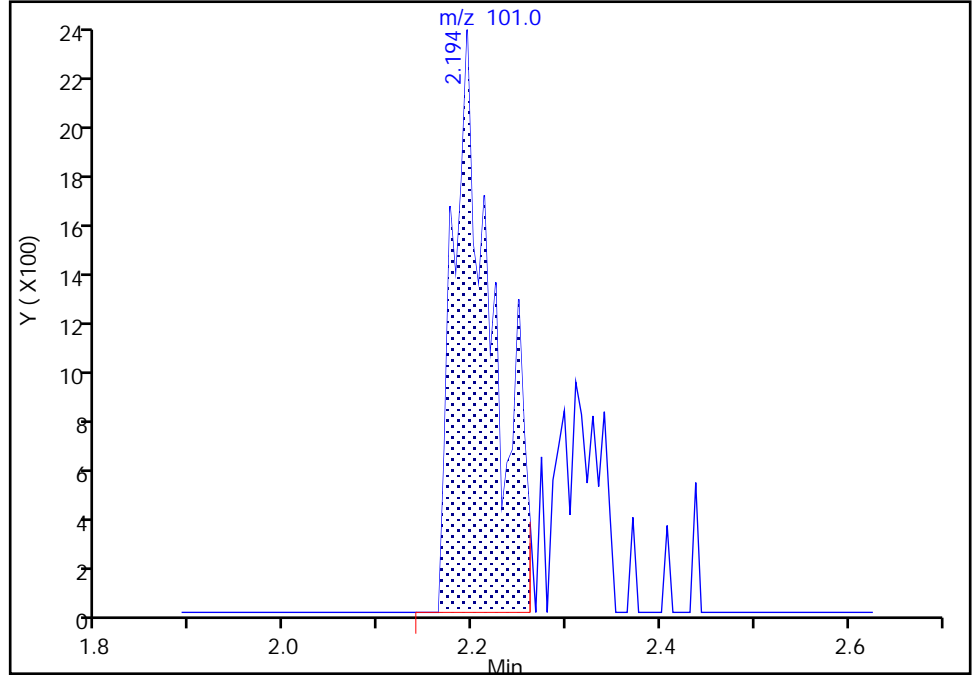
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

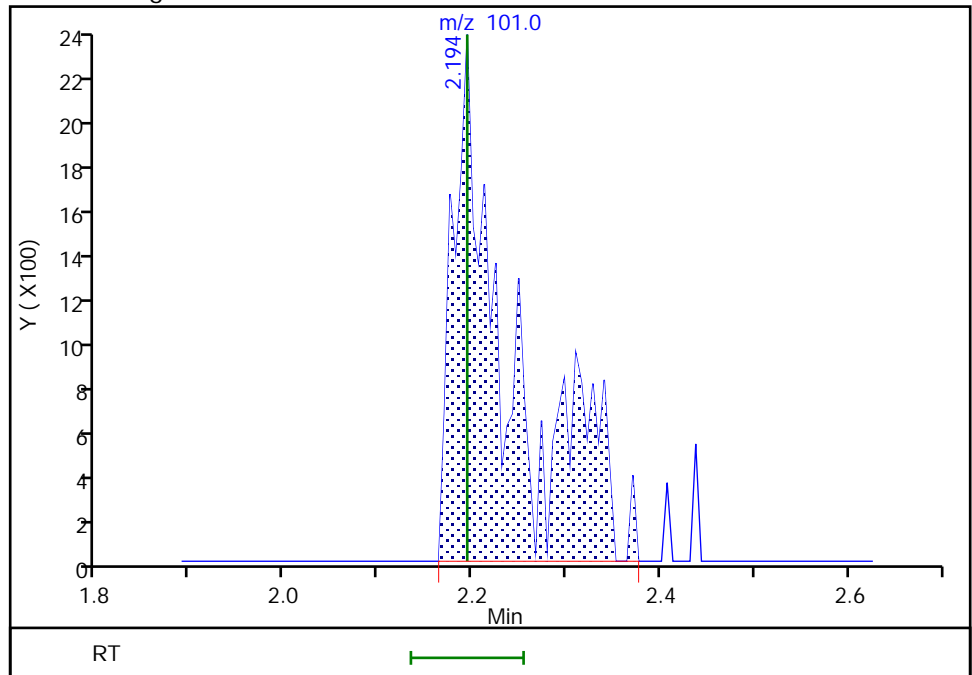
RT: 2.19
Area: 6814
Amount: 0.799434
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 9809
Amount: 0.775455
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:46:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

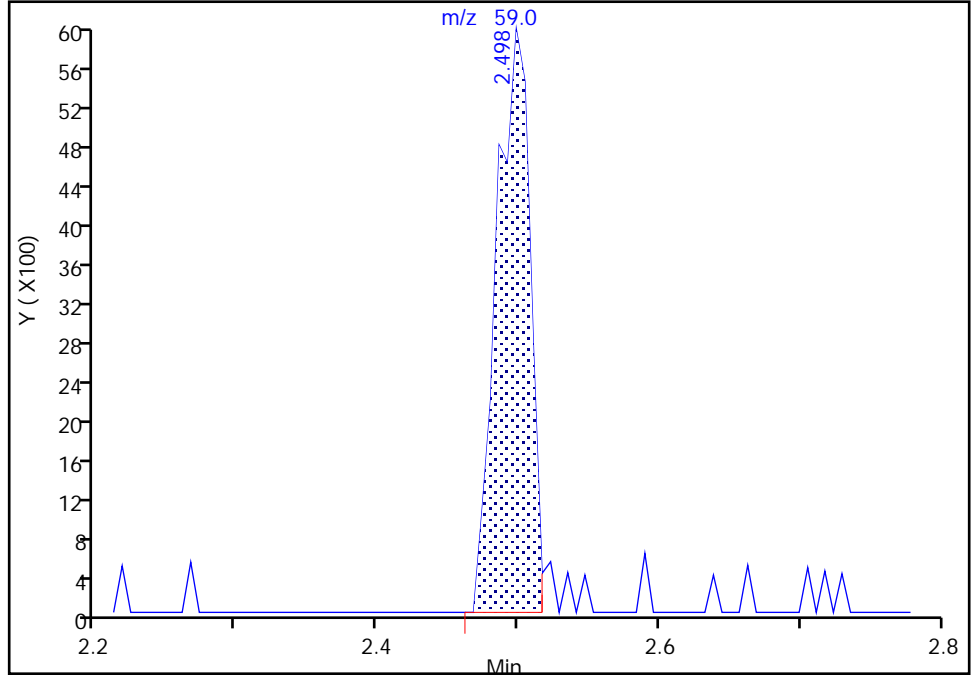
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

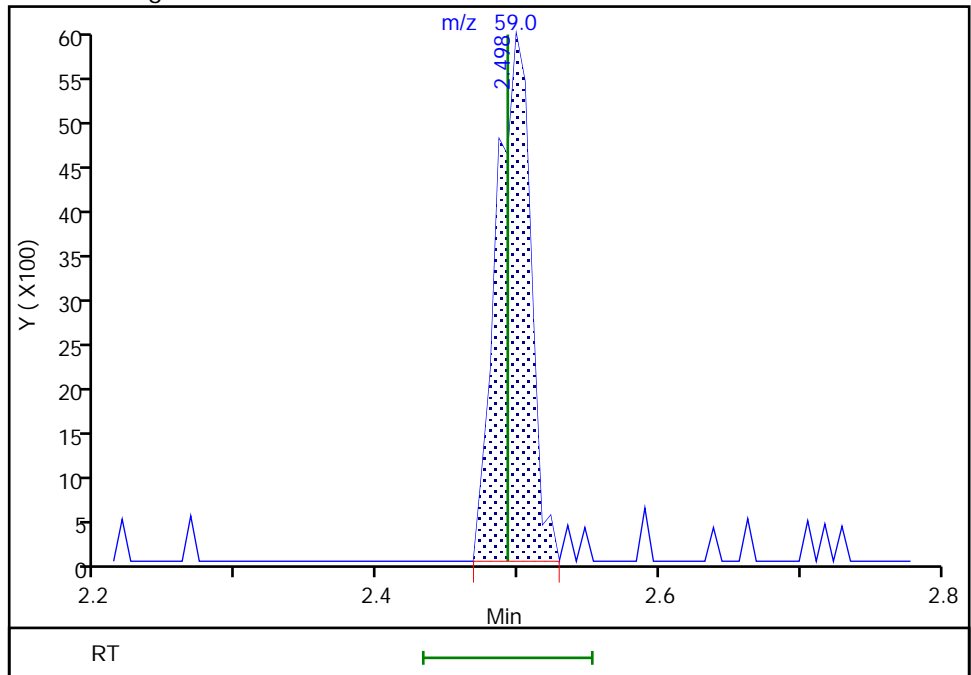
RT: 2.50
Area: 9925
Amount: 0.883933
Amount Units: ug/L

Processing Integration Results



RT: 2.50
Area: 10116
Amount: 0.899032
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:06:08
Audit Action: Manually Integrated

TestAmerica Buffalo

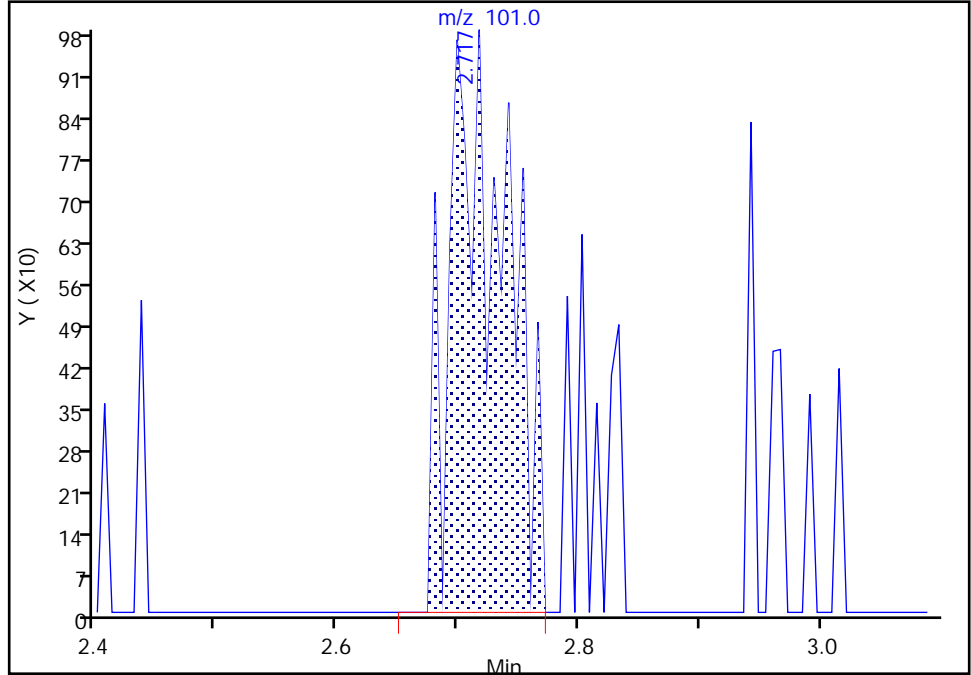
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

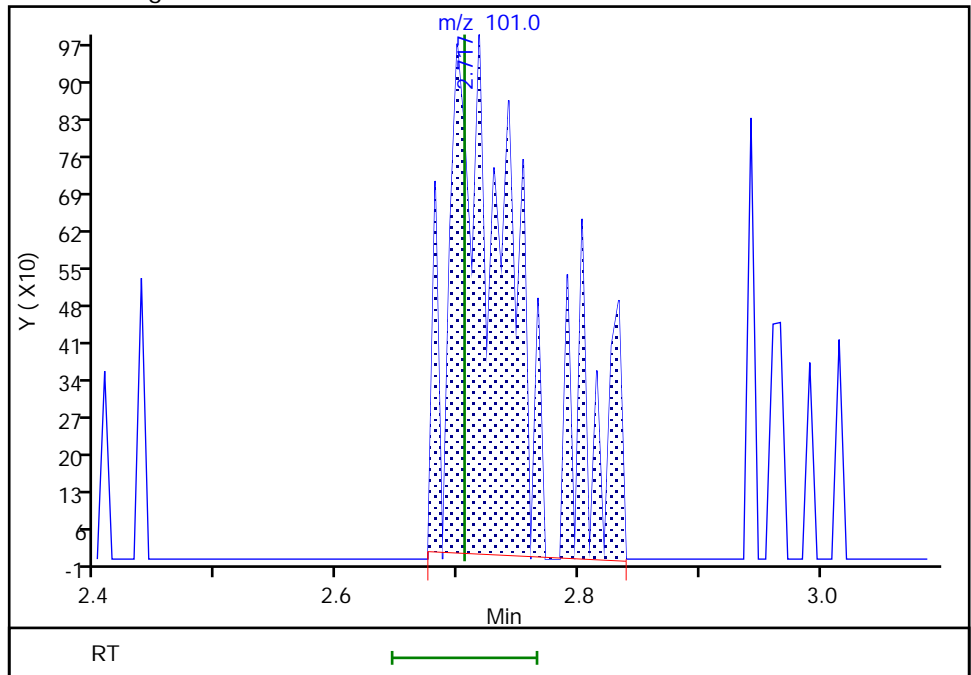
RT: 2.72
Area: 3185
Amount: 0.461181
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 4012
Amount: 0.885545
Amount Units: ug/L

Manual Integration Results



Reviewer: Hill, 21-Jun-2018 14:05:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

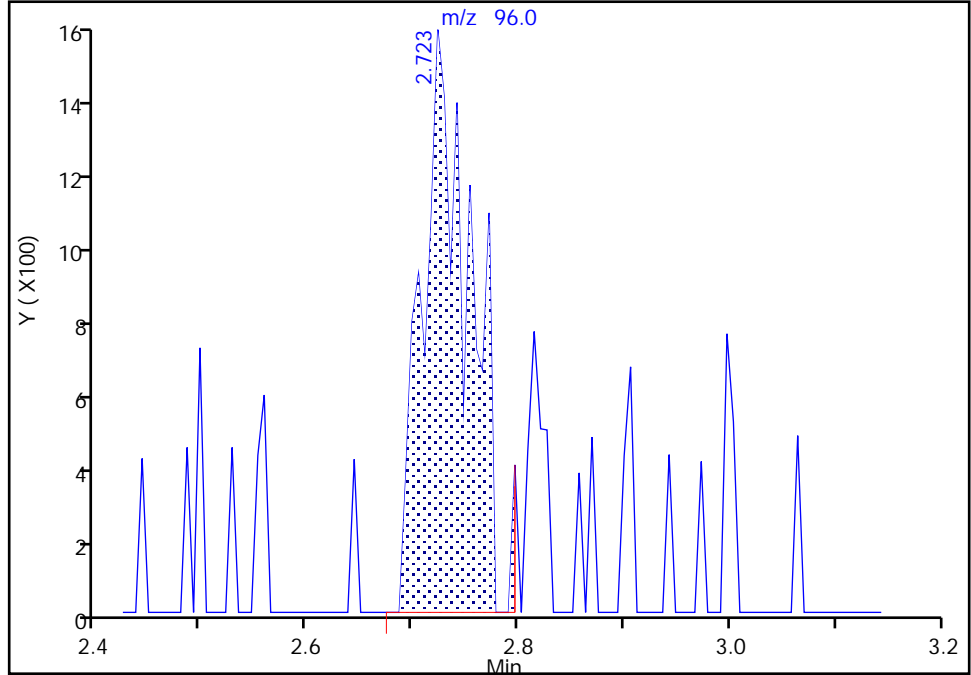
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

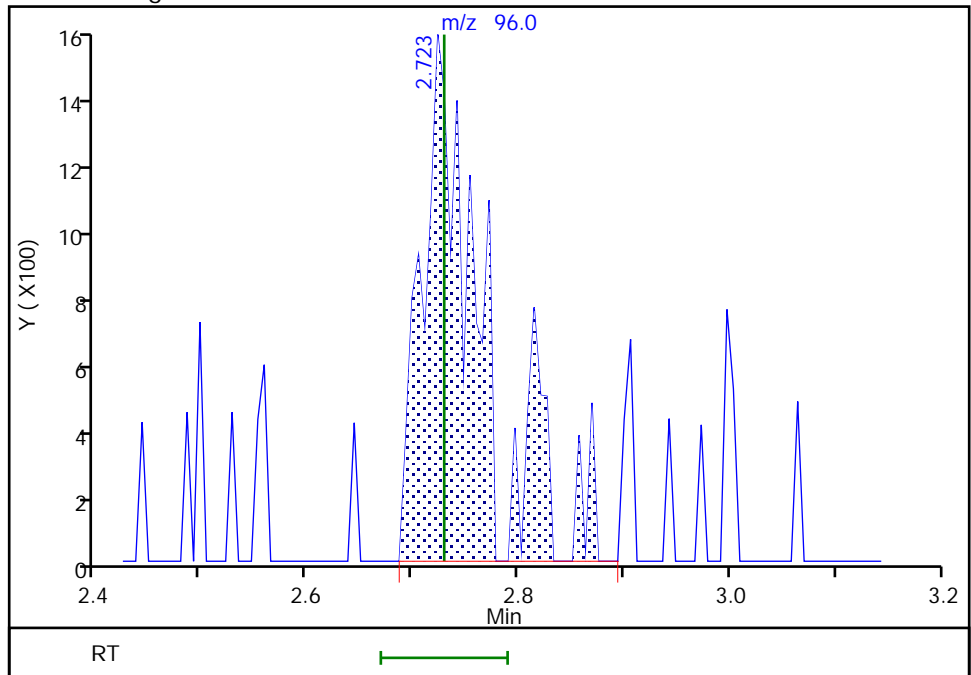
RT: 2.72
Area: 4813
Amount: 0.549905
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 5891
Amount: 0.679625
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:47:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

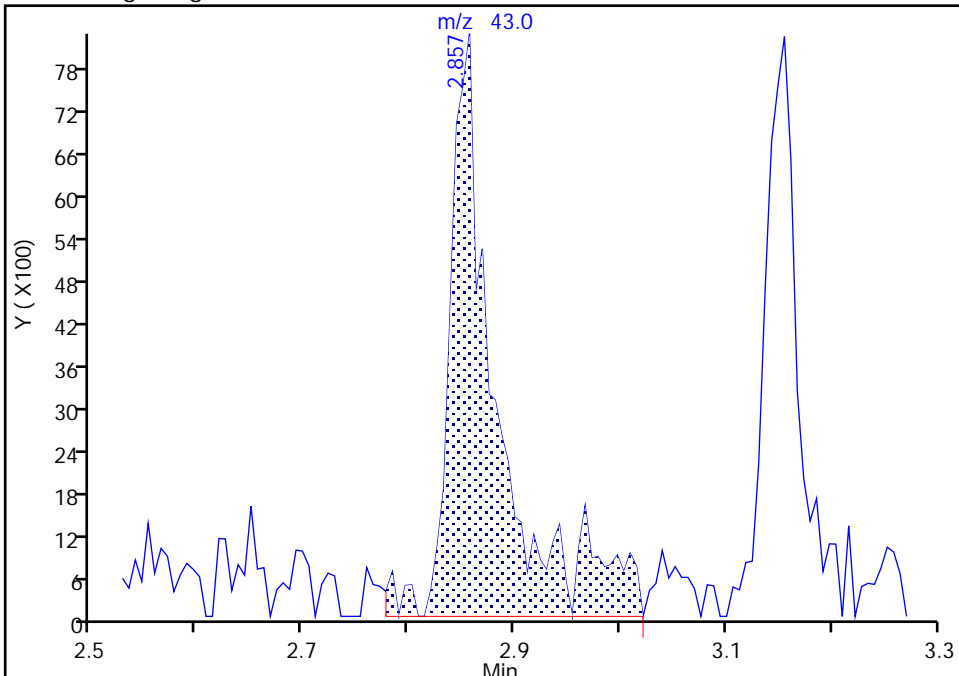
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

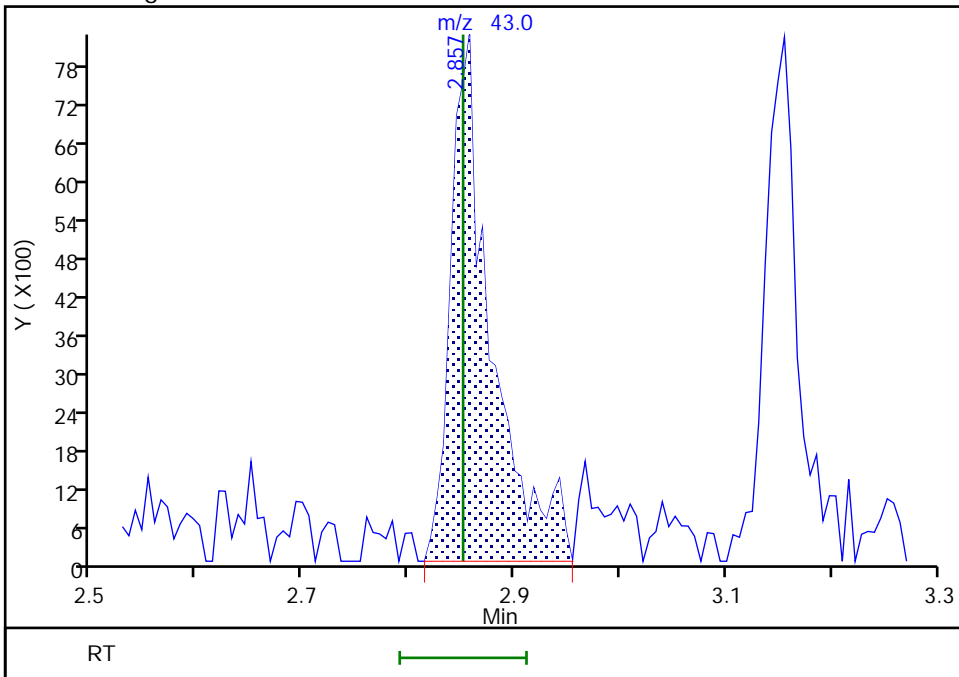
RT: 2.86
Area: 25800
Amount: 5.650467
Amount Units: ug/L

Processing Integration Results



RT: 2.86
Area: 21919
Amount: 5.805718
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:07:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

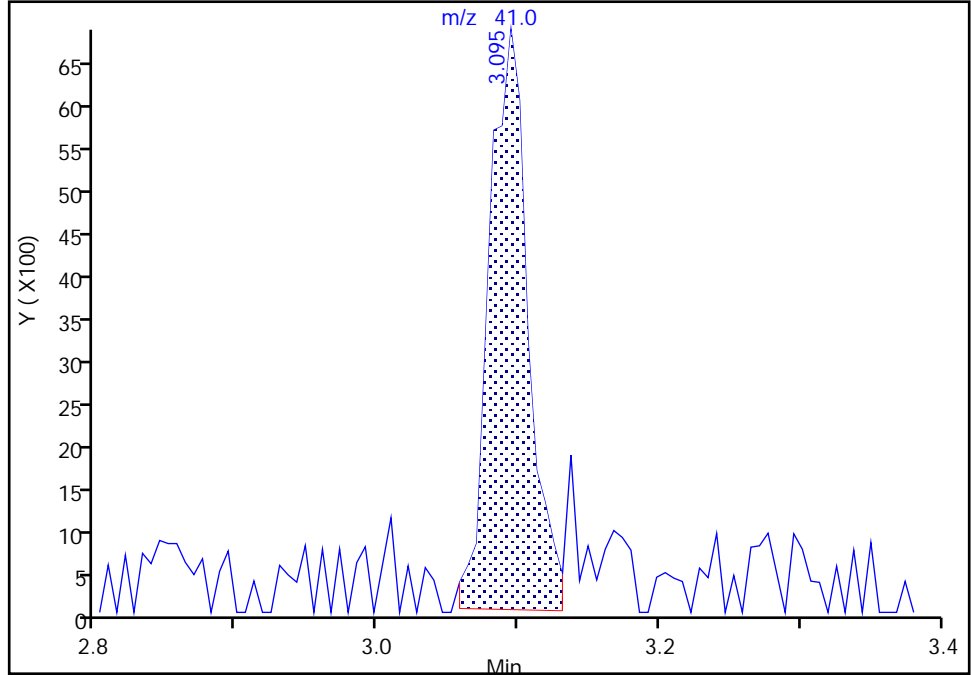
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

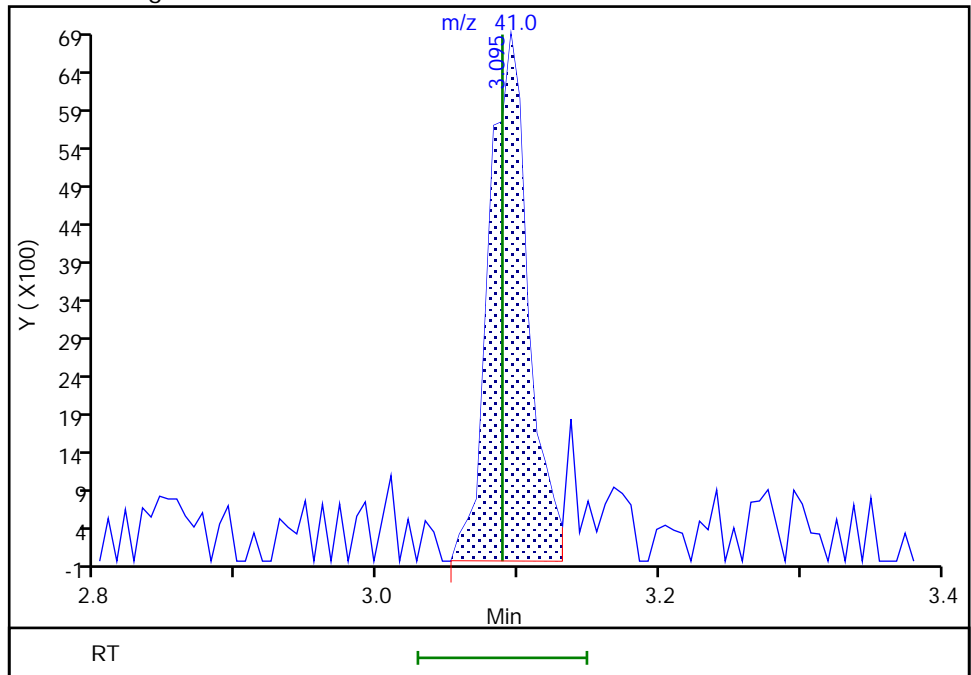
RT: 3.09
Area: 13141
Amount: 0.782798
Amount Units: ug/L

Processing Integration Results



RT: 3.09
Area: 13283
Amount: 0.790421
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:08:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

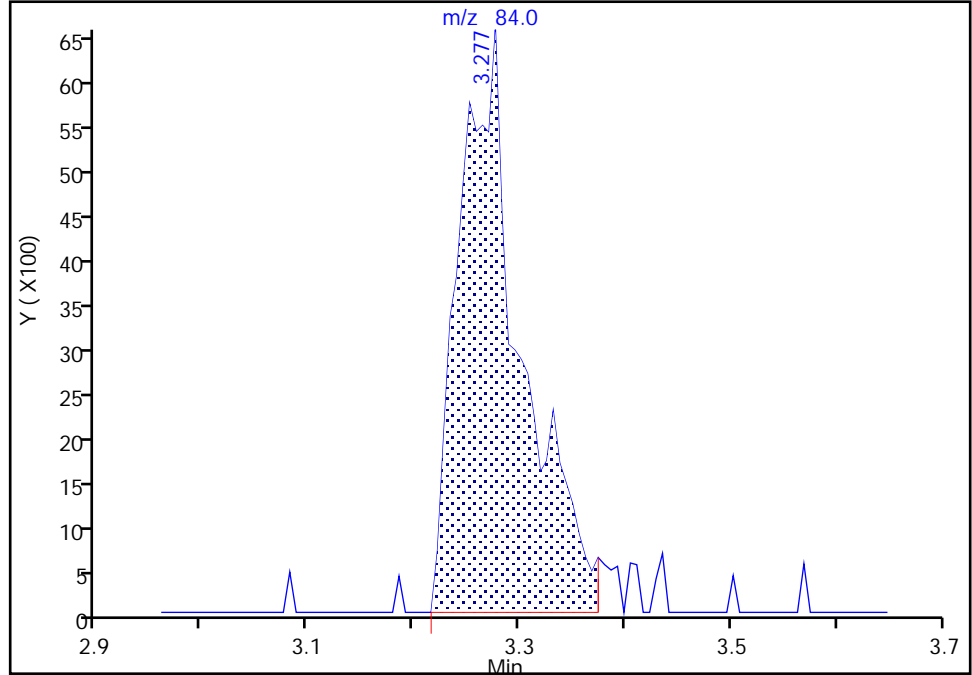
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

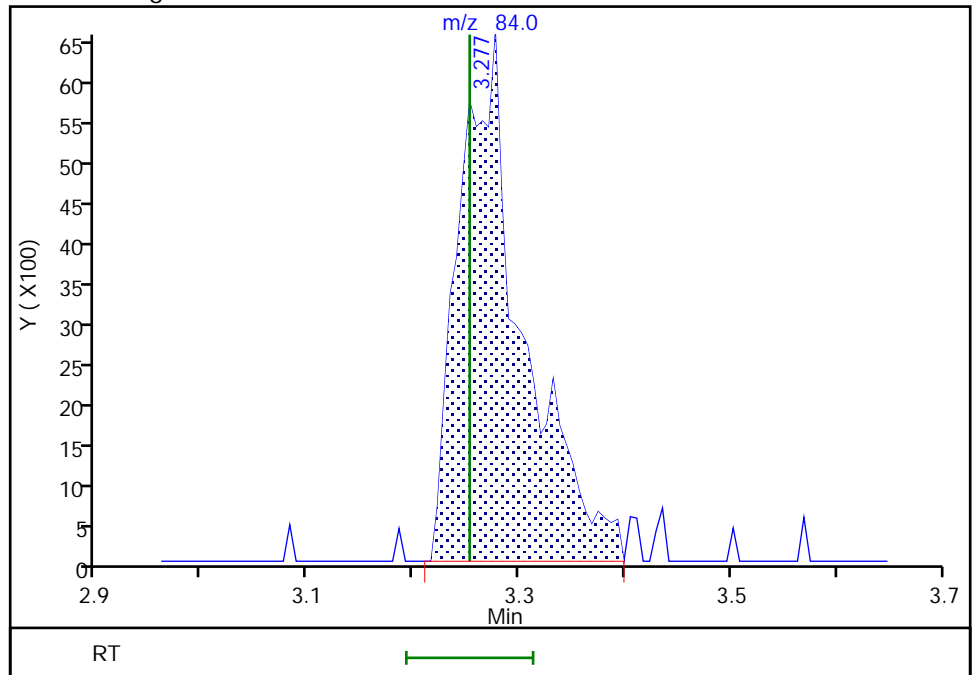
RT: 3.28
Area: 26844
Amount: 0.746640
Amount Units: ug/L

Processing Integration Results



RT: 3.28
Area: 27400
Amount: 0.766220
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:08:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

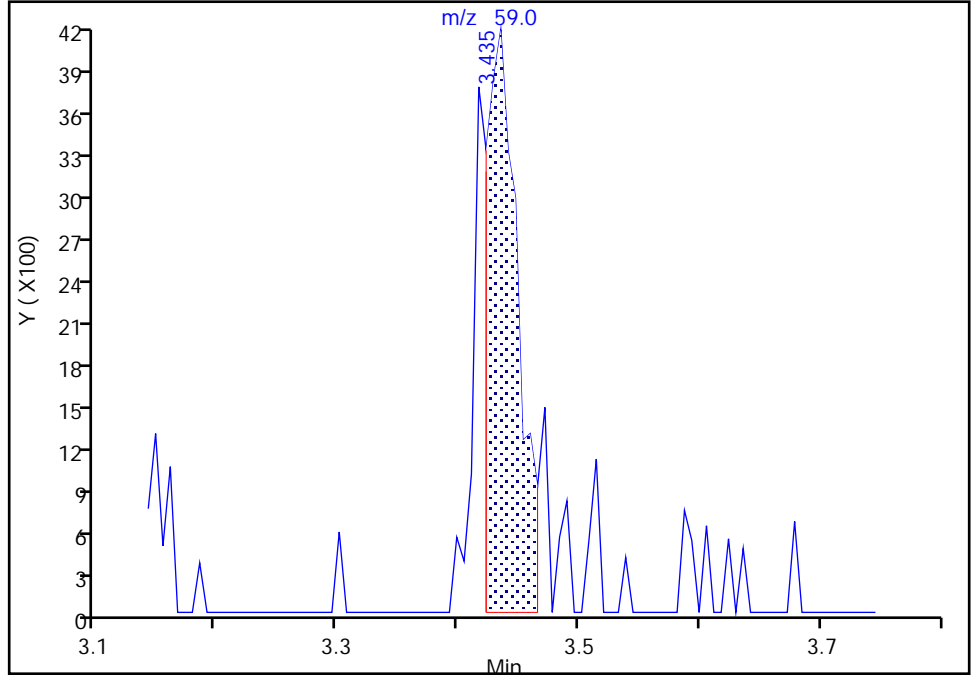
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

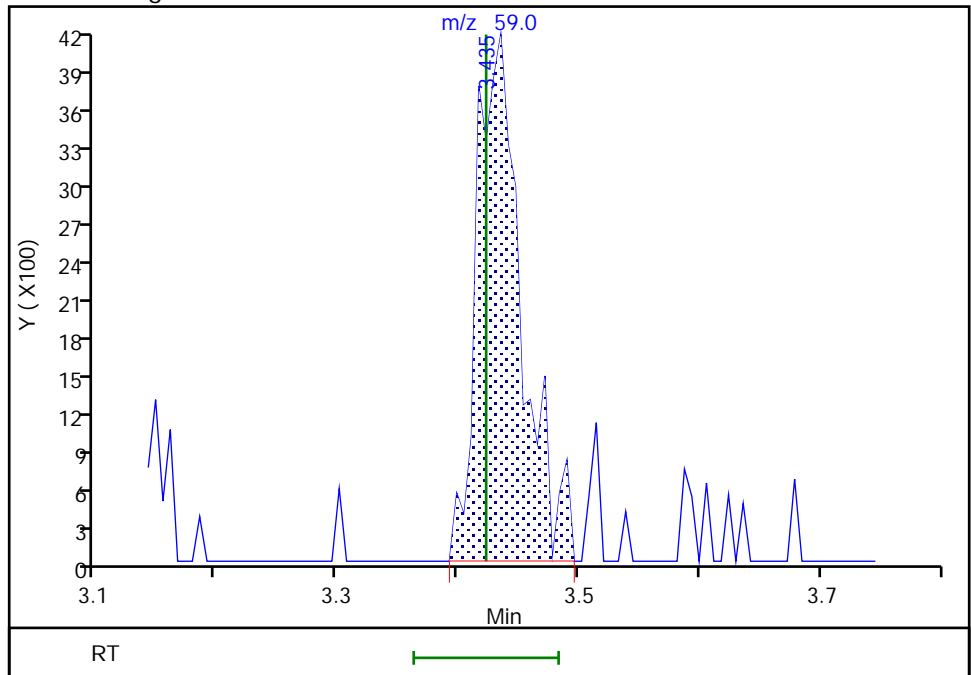
RT: 3.44
Area: 7629
Amount: 7.104469
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 10697
Amount: 8.362223
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:52:14
Audit Action: Manually Integrated

TestAmerica Buffalo

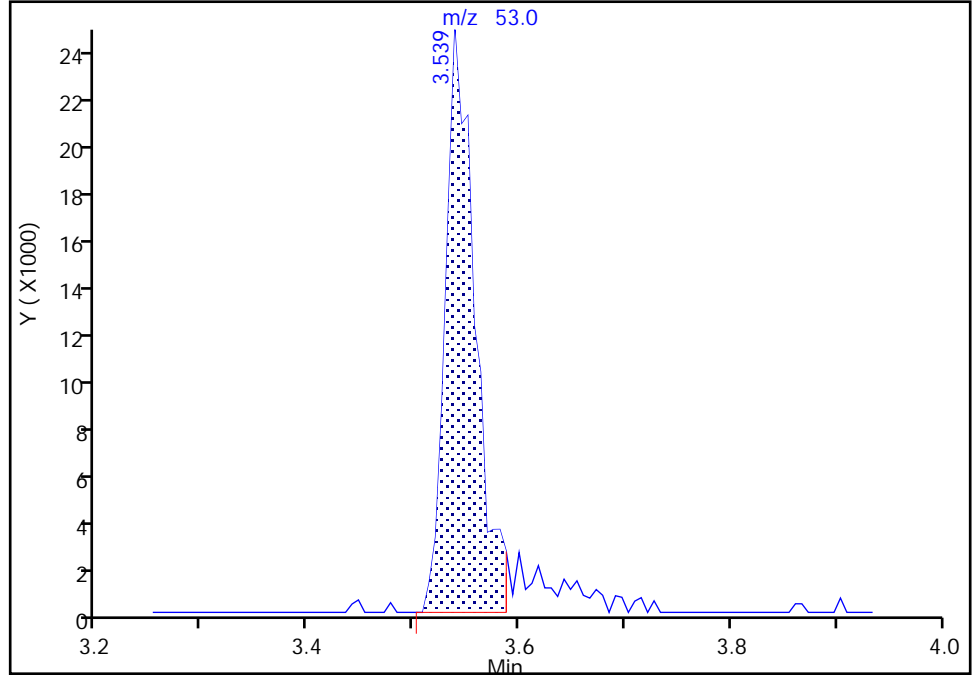
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

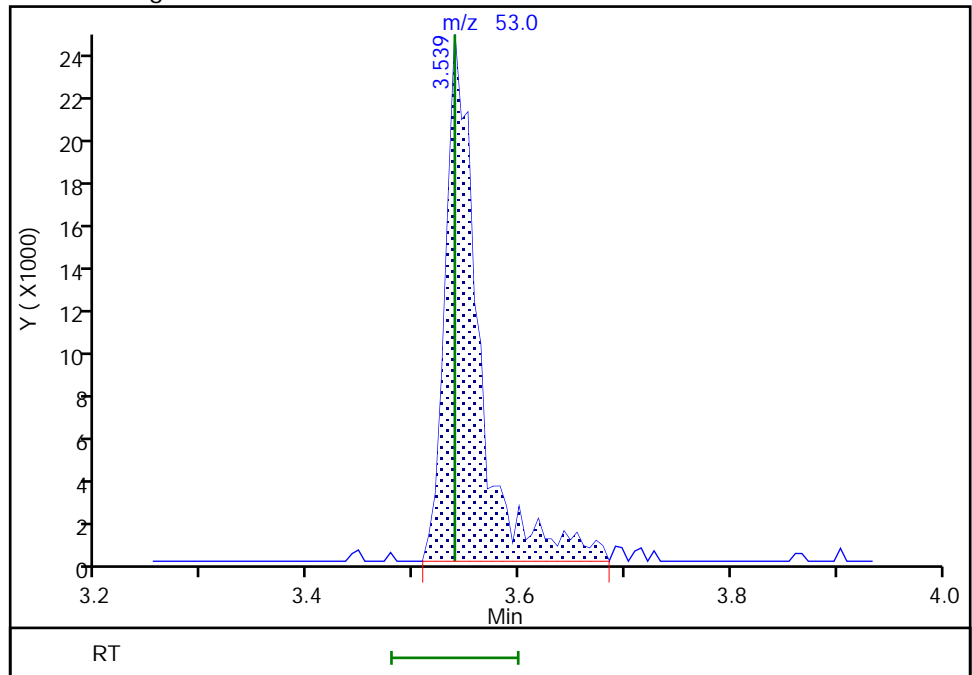
RT: 3.54
Area: 47894
Amount: 9.225375
Amount Units: ug/L

Processing Integration Results



RT: 3.54
Area: 54039
Amount: 10.257266
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:09:17
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

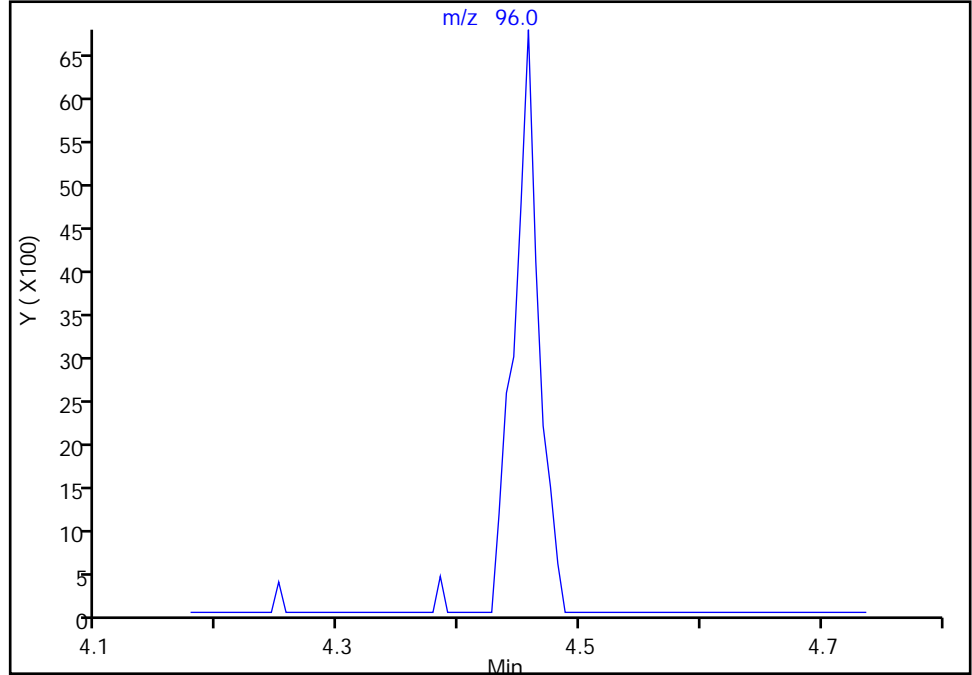
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Signal: 1

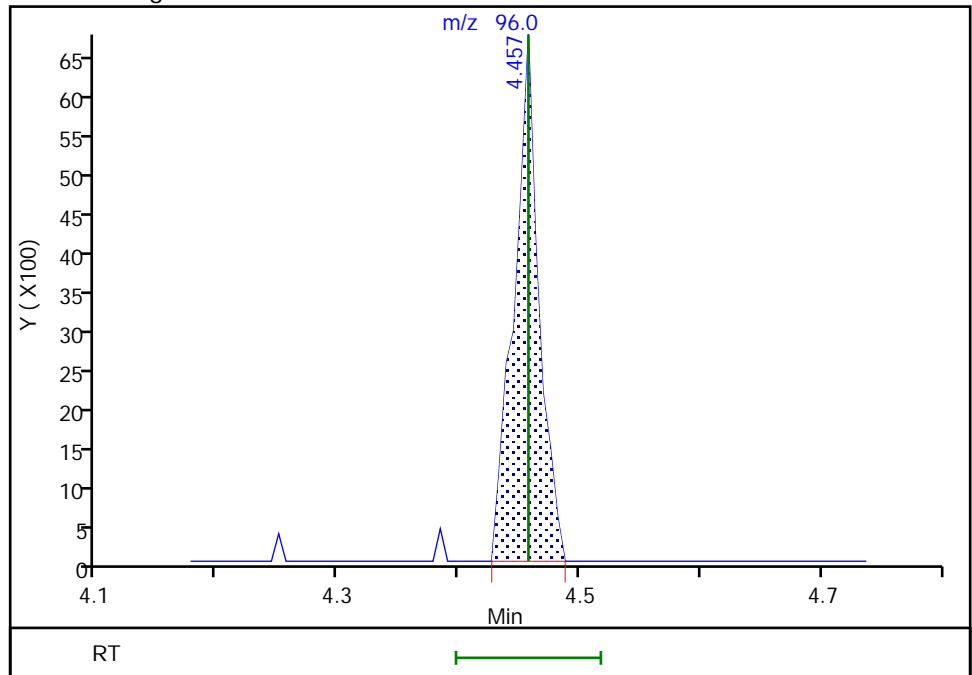
Not Detected
Expected RT: 4.46

Processing Integration Results



RT: 4.46
Area: 9571
Amount: 0.839608
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:09:29
Audit Action: Manually Integrated

TestAmerica Buffalo

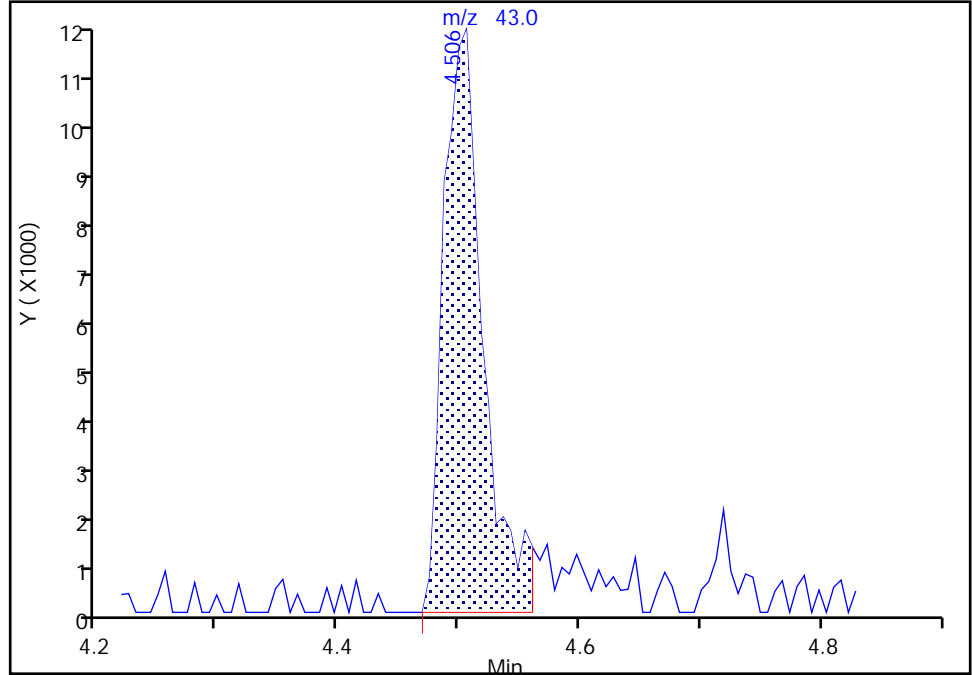
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

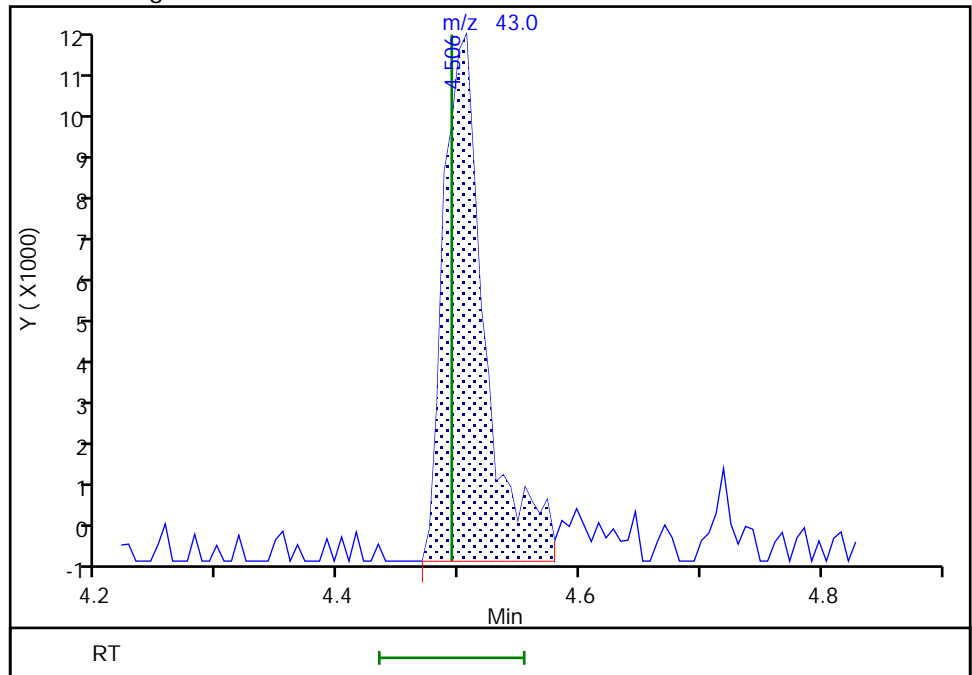
RT: 4.51
Area: 26981
Amount: 4.675650
Amount Units: ug/L

Processing Integration Results



RT: 4.51
Area: 28054
Amount: 4.839100
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:12:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

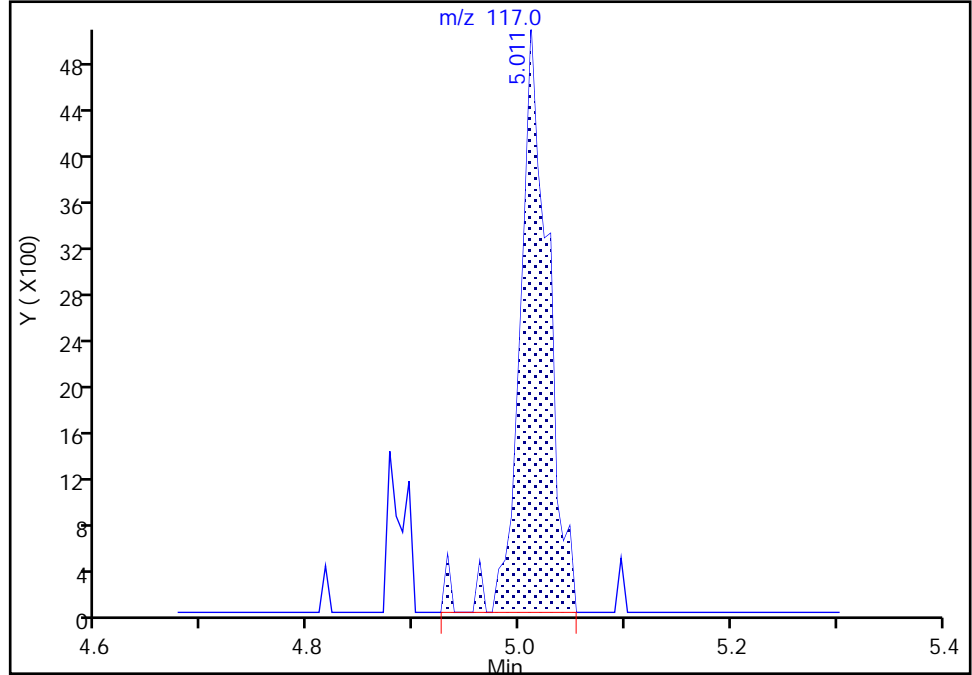
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

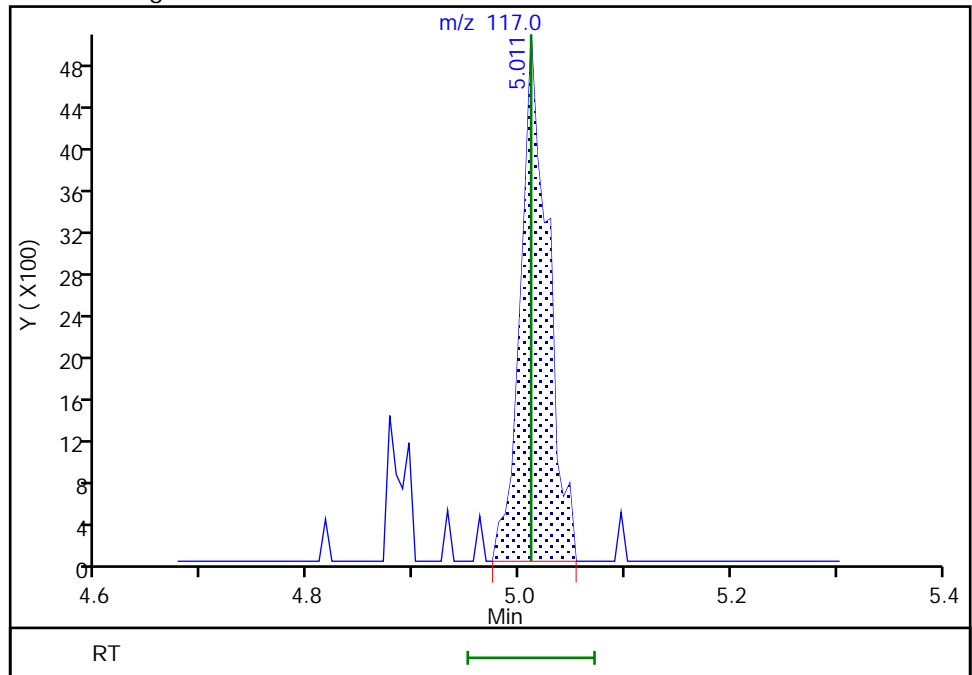
RT: 5.01
Area: 9483
Amount: 0.829824
Amount Units: ug/L

Processing Integration Results



RT: 5.01
Area: 9145
Amount: 0.803217
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:12:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

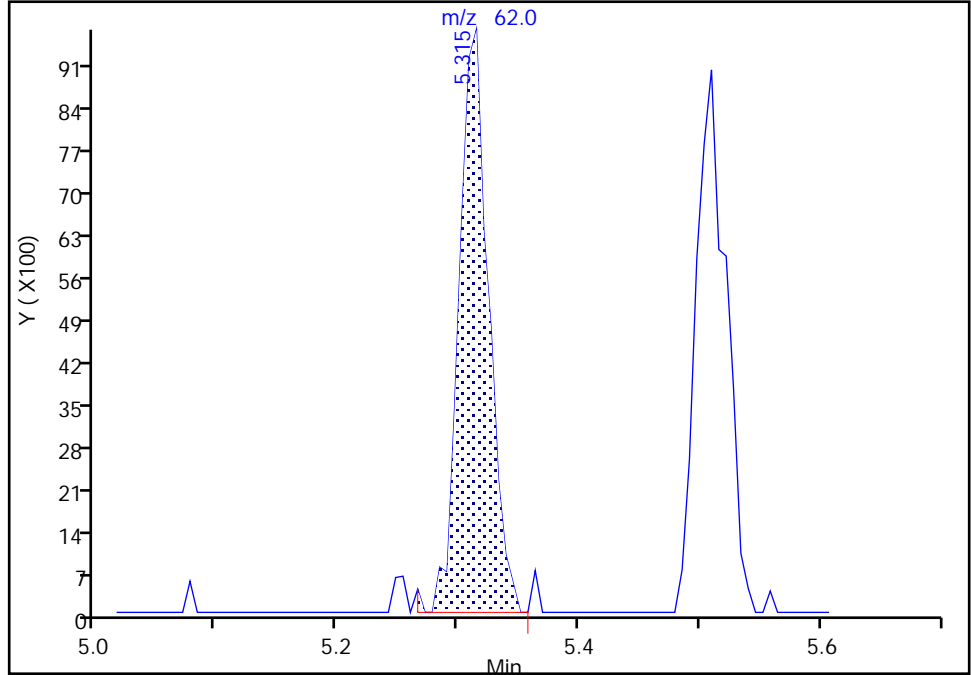
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

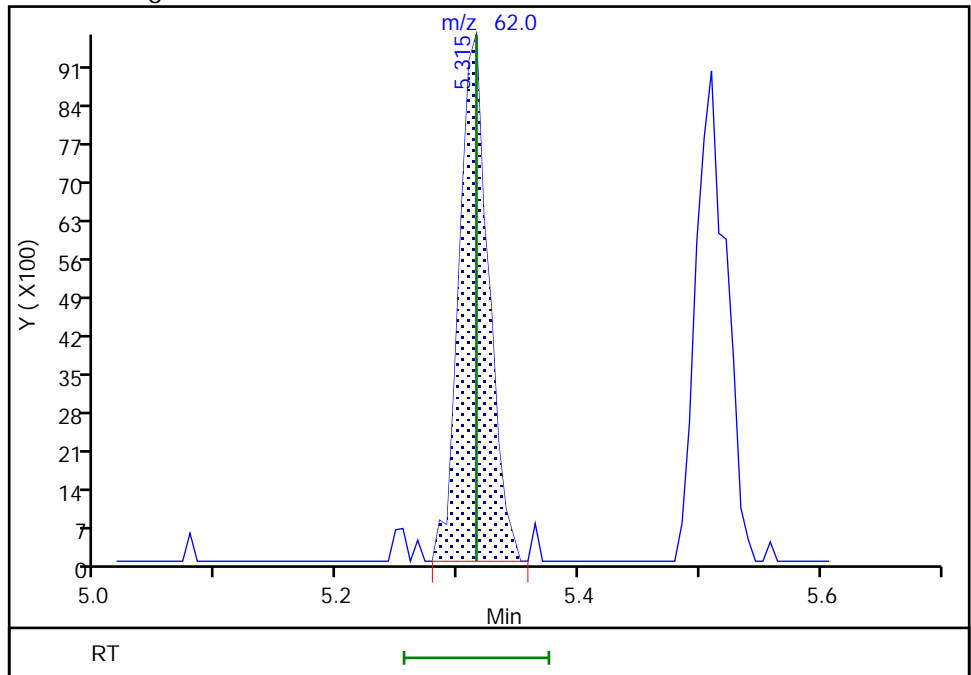
Processing Integration Results

RT: 5.32
Area: 16387
Amount: 0.973266
Amount Units: ug/L



Manual Integration Results

RT: 5.32
Area: 16247
Amount: 0.965955
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:13:09
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

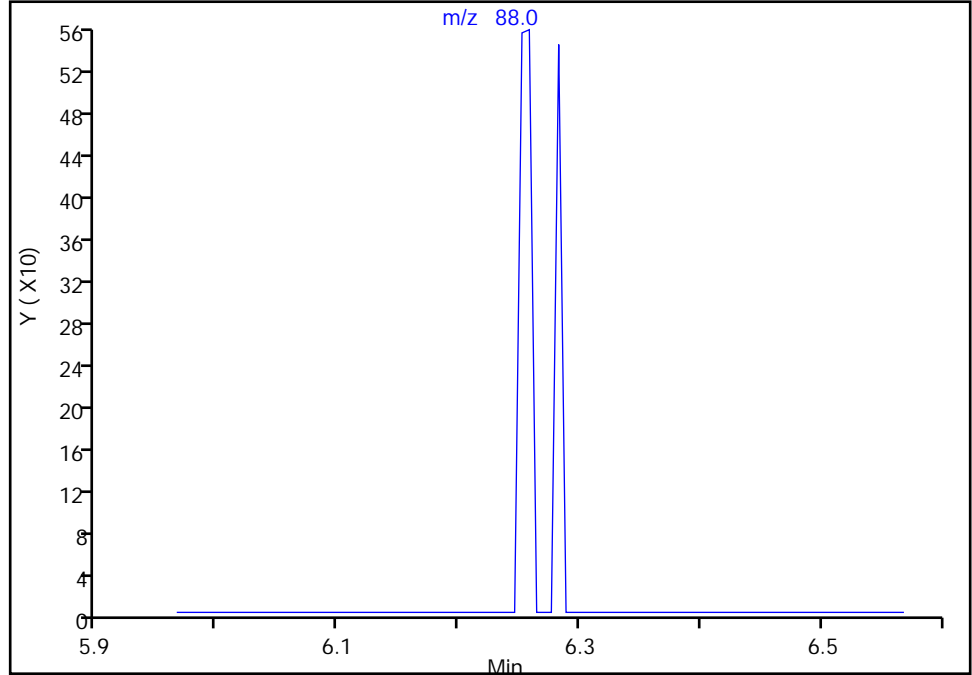
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

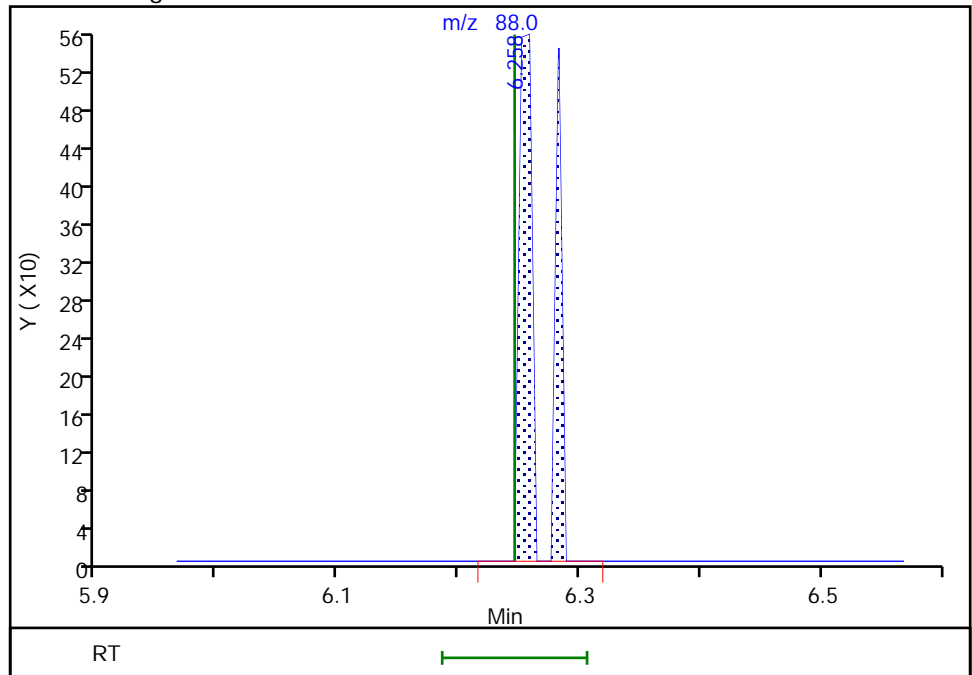
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 597
Amount: 20.073889
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:13:31
Audit Action: Manually Integrated

TestAmerica Buffalo

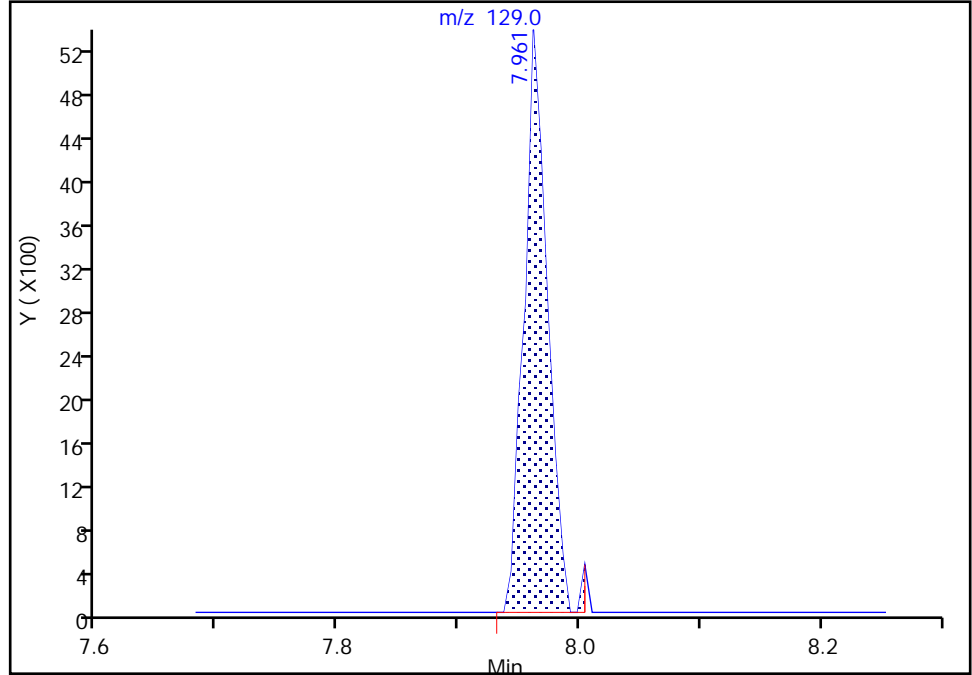
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

83 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

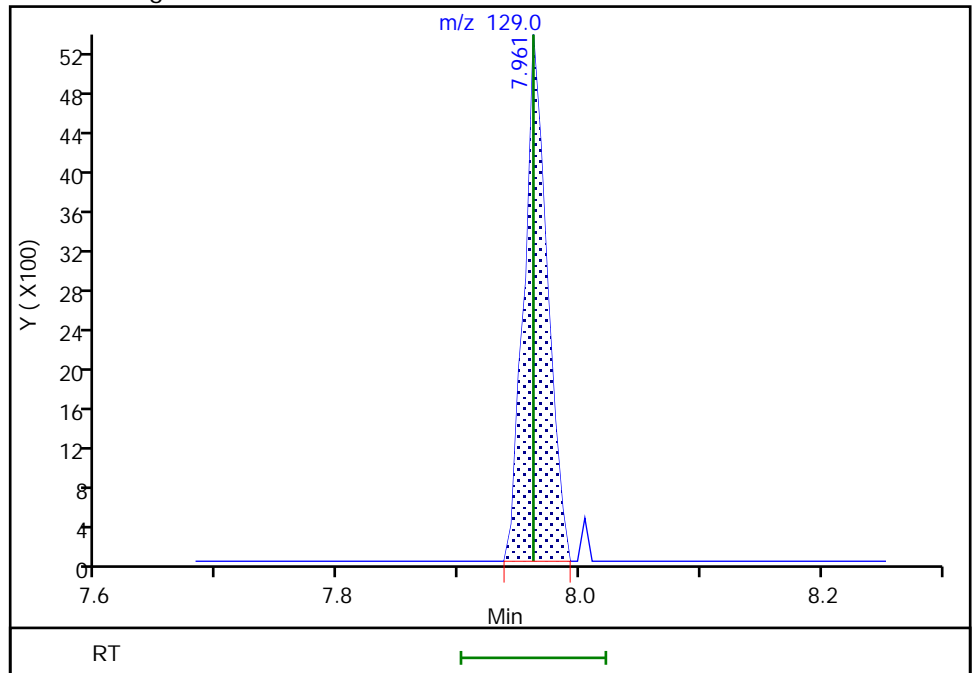
RT: 7.96
Area: 7317
Amount: 0.828185
Amount Units: ug/L

Processing Integration Results



RT: 7.96
Area: 7156
Amount: 0.811811
Amount Units: ug/L

Manual Integration Results



TestAmerica Buffalo

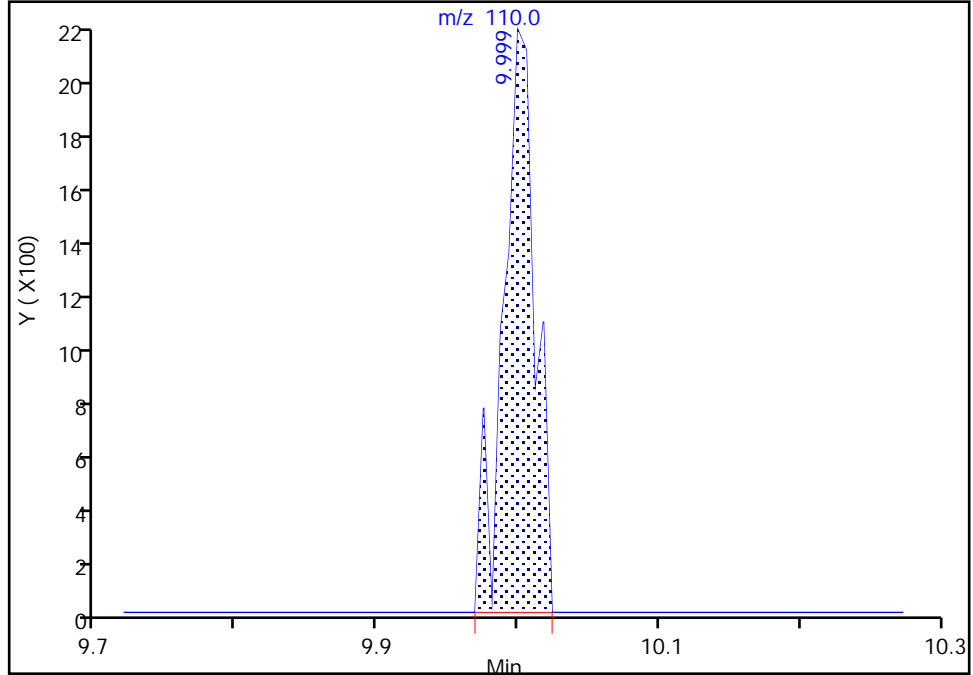
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

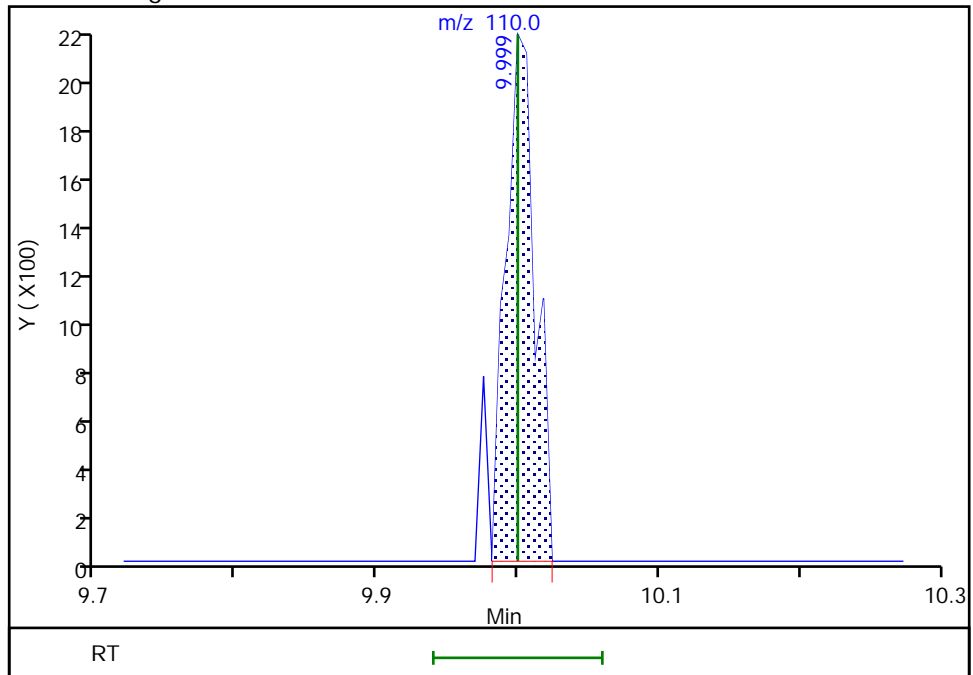
RT: 10.00
Area: 3397
Amount: 0.806128
Amount Units: ug/L

Processing Integration Results



RT: 10.00
Area: 3120
Amount: 0.746528
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:00
Audit Action: Manually Integrated

TestAmerica Buffalo

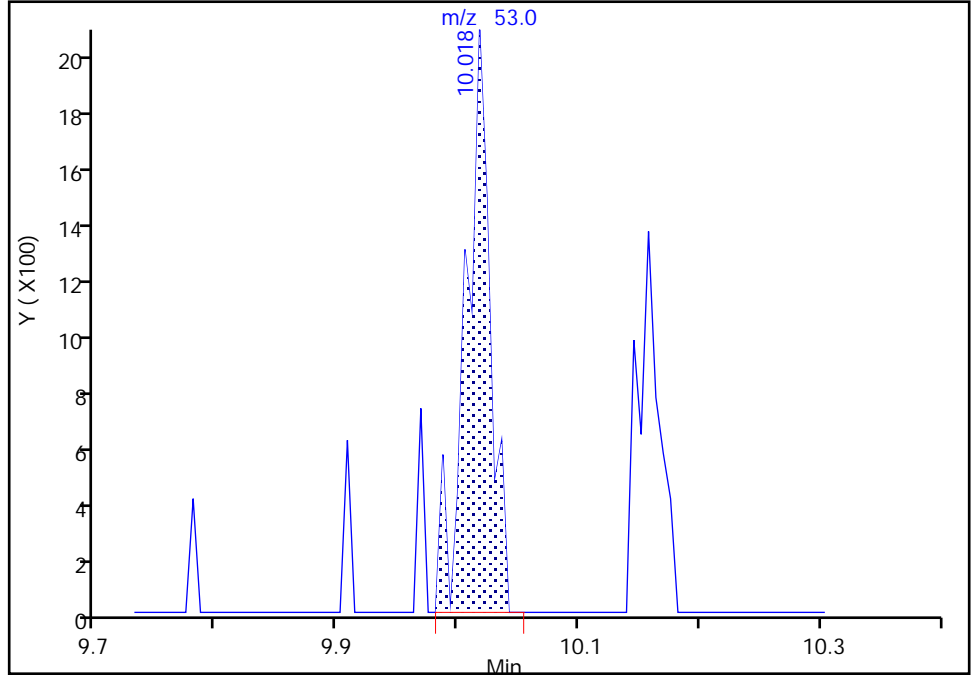
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

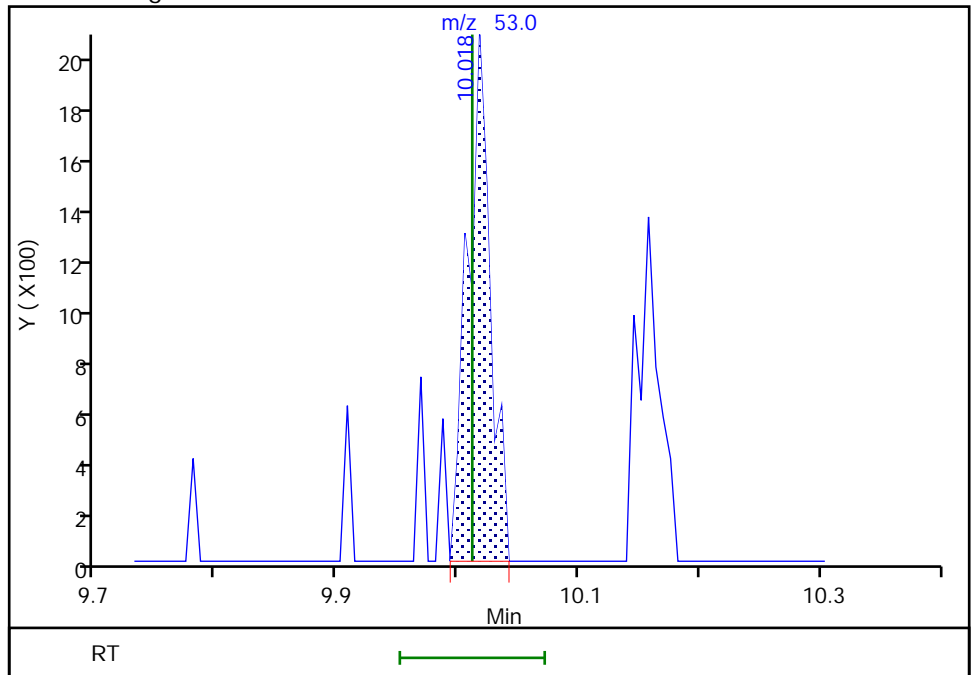
RT: 10.02
Area: 2886
Amount: 1.070549
Amount Units: ug/L

Processing Integration Results



RT: 10.02
Area: 2682
Amount: 1.162748
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:10
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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TestAmerica Buffalo

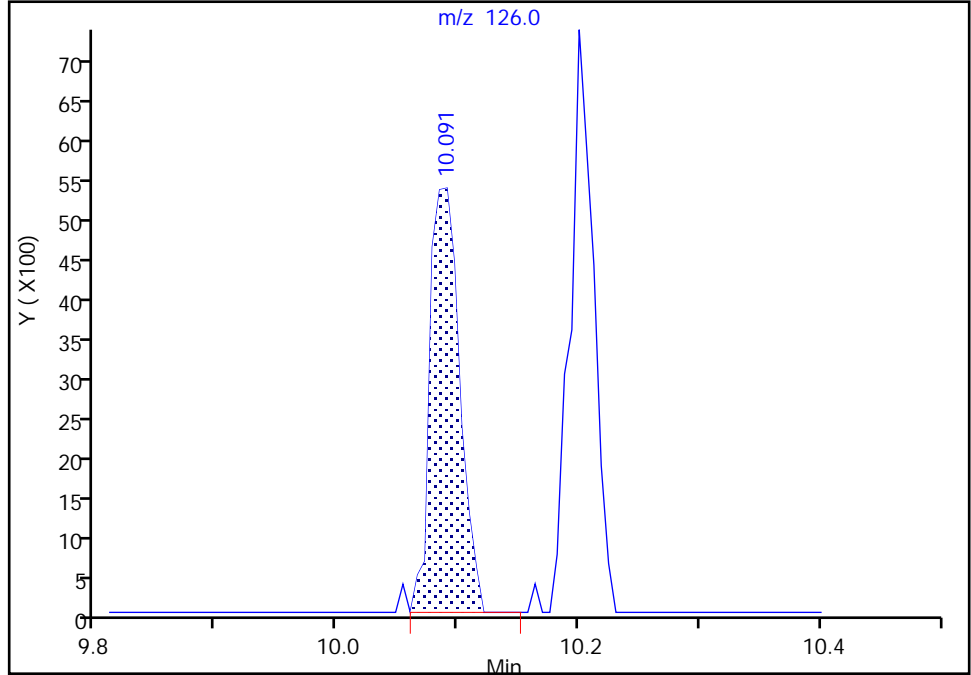
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Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

103 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

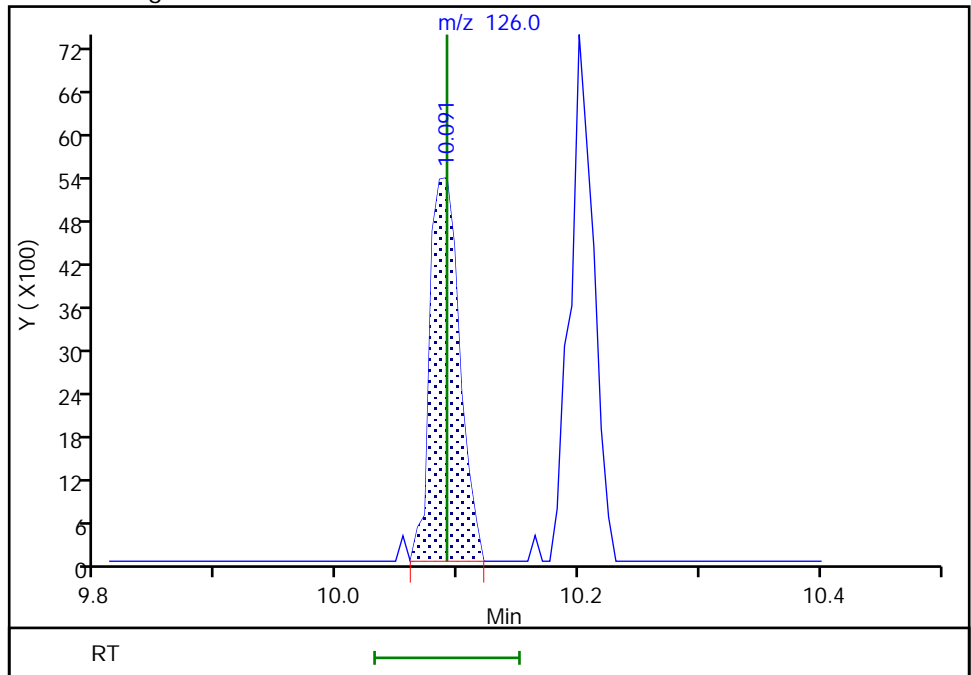
RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L

Processing Integration Results



RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:15:16
Audit Action: Manually Integrated

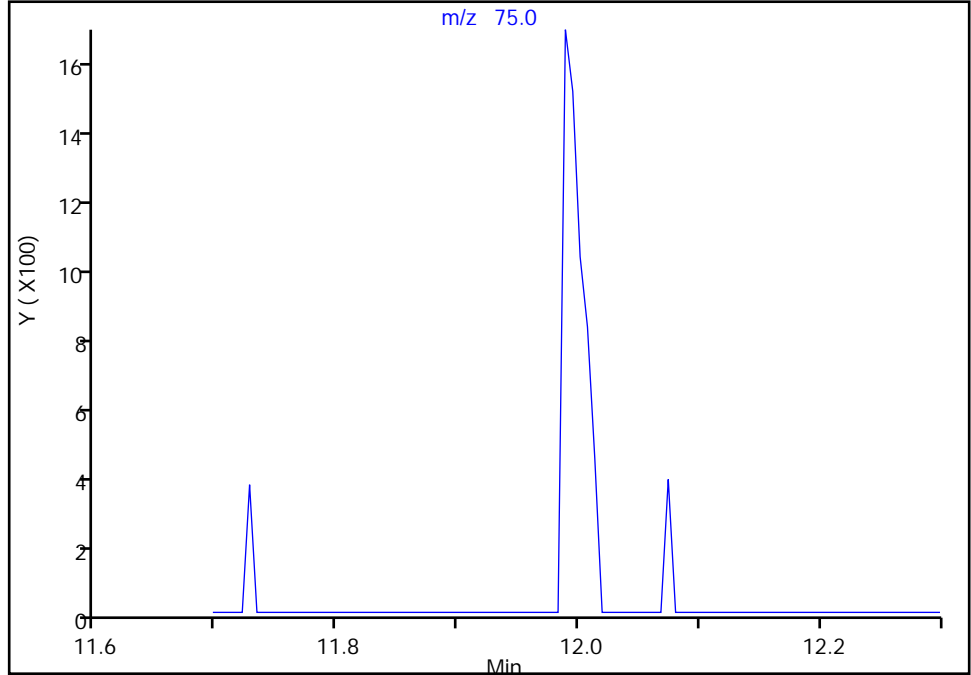
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

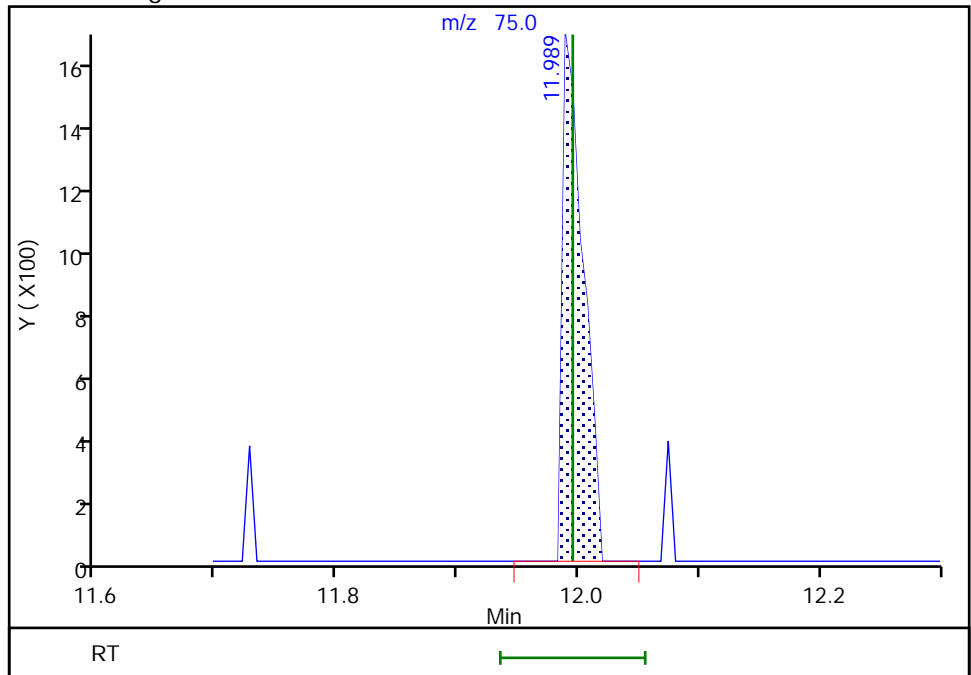
Not Detected
Expected RT: 11.99

Processing Integration Results



Manual Integration Results

RT: 11.99
Area: 1954
Amount: 0.793195
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:52:06
Audit Action: Manually Integrated

Audit Reason: Assign Peak
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Jun-2018 14:38:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0072482-007
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:46 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:33:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	202958	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	394355	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	95	373516	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	55	237036	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	153545	25.0	24.1	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	987838	25.0	25.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	296734	25.0	25.2	
10 Dichlorodifluoromethane	85	1.276	1.282	-0.006	48	15348	2.00	1.57	
12 Chloromethane	50	1.464	1.464	0.000	69	31418	2.00	2.02	
13 Vinyl chloride	62	1.555	1.549	0.006	74	26352	2.00	1.91	
151 Butadiene	54	1.580	1.574	0.006	79	27634	2.00	1.92	
14 Bromomethane	94	1.872	1.872	0.000	76	13102	2.00	1.77	M
15 Chloroethane	64	1.981	1.969	0.012	40	15522	2.00	1.86	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	61	24492	2.00	1.87	M
16 Dichlorofluoromethane	67	2.206	2.194	0.012	58	32362	2.00	1.77	M
18 Ethyl ether	59	2.498	2.492	0.006	75	22137	2.00	1.90	
20 Acrolein	56	2.687	2.687	0.000	77	19651	10.0	8.82	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	12	12129	2.00	1.88	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	67	18776	2.00	2.09	M
23 Acetone	43	2.851	2.851	0.000	92	45897	10.0	11.8	M
25 Iodomethane	142	2.900	2.894	0.006	83	23539	2.00	1.80	M
26 Carbon disulfide	76	2.918	2.918	0.000	91	56275	2.00	1.97	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	85	34229	2.00	1.97	
27 Methyl acetate	43	3.149	3.143	0.006	88	47623	4.00	4.65	
30 Methylene Chloride	84	3.253	3.253	0.000	87	42609	2.00	2.06	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	89	23908	20.0	18.1	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	85	67897	2.00	2.02	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	21095	2.00	2.06	
33 Acrylonitrile	53	3.545	3.539	0.006	98	110281	20.0	20.2	
35 Hexane	57	3.666	3.660	0.006	81	34429	2.00	1.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.904	3.892	0.012	75	44053	2.00	2.04	
37 Vinyl acetate	43	3.952	3.952	0.000	93	101560	4.00	4.08	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	73	23960	2.00	2.00	
45 cis-1,2-Dichloroethene	96	4.463	4.457	0.006	70	22561	2.00	1.91	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	91	58111	10.0	9.69	
48 Chlorobromomethane	128	4.695	4.695	0.000	79	11538	2.00	2.05	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	15949	4.00	3.87	
50 Chloroform	83	4.768	4.774	-0.006	84	38075	2.00	2.02	
51 1,1,1-Trichloroethane	97	4.871	4.877	-0.006	62	26672	2.00	1.90	
52 Cyclohexane	56	4.877	4.883	-0.006	83	35177	2.00	1.86	
55 Carbon tetrachloride	117	5.011	5.011	0.000	63	24702	2.00	2.10	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	86	30749	2.00	2.15	
57 Benzene	78	5.236	5.236	0.000	53	85767	2.00	1.99	
53 Isobutyl alcohol	43	5.266	5.266	0.000	63	28420	50.0	51.0	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	56	36030	2.00	2.07	
59 n-Heptane	43	5.406	5.412	-0.006	92	34128	2.00	1.94	M
62 Trichloroethene	95	5.850	5.850	0.000	83	22060	2.00	1.99	
64 Methylcyclohexane	83	5.966	5.960	0.006	87	31597	2.00	1.87	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	84	26992	2.00	2.08	
67 Dibromomethane	93	6.234	6.234	0.000	77	12583	2.00	1.86	
66 1,4-Dioxane	88	6.240	6.246	-0.006	24	2267	40.0	38.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	80	23598	2.00	1.81	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	75	15014	2.00	1.73	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	71	30883	2.00	1.88	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	137972	10.0	11.0	
74 Toluene	92	7.092	7.085	0.007	74	54960	2.00	2.10	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	86	28095	2.00	1.95	
75 Ethyl methacrylate	69	7.420	7.414	0.006	58	28412	2.00	2.01	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	82	17708	2.00	2.24	
81 Tetrachloroethene	166	7.621	7.615	0.006	83	22036	2.00	1.99	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	84	35902	2.00	2.16	
80 2-Hexanone	43	7.797	7.791	0.006	77	98893	10.0	10.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	66	18127	2.00	2.02	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	76	19979	2.00	2.01	
87 Chlorobenzene	112	8.539	8.539	0.000	86	60005	2.00	2.09	
88 Ethylbenzene	91	8.631	8.631	0.000	95	101499	2.00	2.15	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	43	19212	2.00	2.07	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	39460	2.00	2.05	
91 o-Xylene	106	9.178	9.178	0.000	94	38904	2.00	2.13	
92 Styrene	104	9.209	9.209	0.000	89	64472	2.00	2.06	
95 Bromoform	173	9.470	9.464	0.006	64	9957	2.00	1.74	
94 Isopropylbenzene	105	9.555	9.561	-0.006	89	97764	2.00	2.08	
101 Bromobenzene	156	9.908	9.908	0.000	88	23921	2.00	2.01	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	59	25318	2.00	1.98	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	112308	2.00	2.06	
100 1,2,3-Trichloropropane	110	10.006	9.999	0.007	65	7744	2.00	1.84	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	45	6261	2.00	1.92	
103 2-Chlorotoluene	126	10.091	10.091	0.000	92	23261	2.00	1.98	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	86	82695	2.00	2.02	
105 4-Chlorotoluene	126	10.200	10.200	0.000	79	26092	2.00	2.17	
106 tert-Butylbenzene	134	10.480	10.474	0.006	84	17151	2.00	1.97	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	69	85998	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.681	10.687	-0.006	88	101392	2.00	2.07	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	69	48178	2.00	2.08	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	93	85693	2.00	2.03	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	53	49506	2.00	2.10	
115 n-Butylbenzene	91	11.210	11.210	0.000	90	80619	2.00	2.12	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	89	46309	2.00	2.03	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	34	4266	2.00	1.72	
119 1,2,4-Trichlorobenzene	180	12.658	12.664	-0.006	71	35174	2.00	2.17	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	68	15718	2.00	2.03	
121 Naphthalene	128	12.883	12.877	0.006	93	89284	2.00	2.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	86	28319	2.00	1.89	
S 123 Total BTEX	1				0			10.4	
S 125 1,2-Dichloroethene, Total	1				0			3.97	
S 124 Xylenes, Total	1				0			4.19	
S 126 1,3-Dichloropropene, Total	1				0			3.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 2.00	Units: uL	
GAS CORP mix_00287	Amount Added: 2.00	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D

Injection Date: 20-Jun-2018 14:38:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

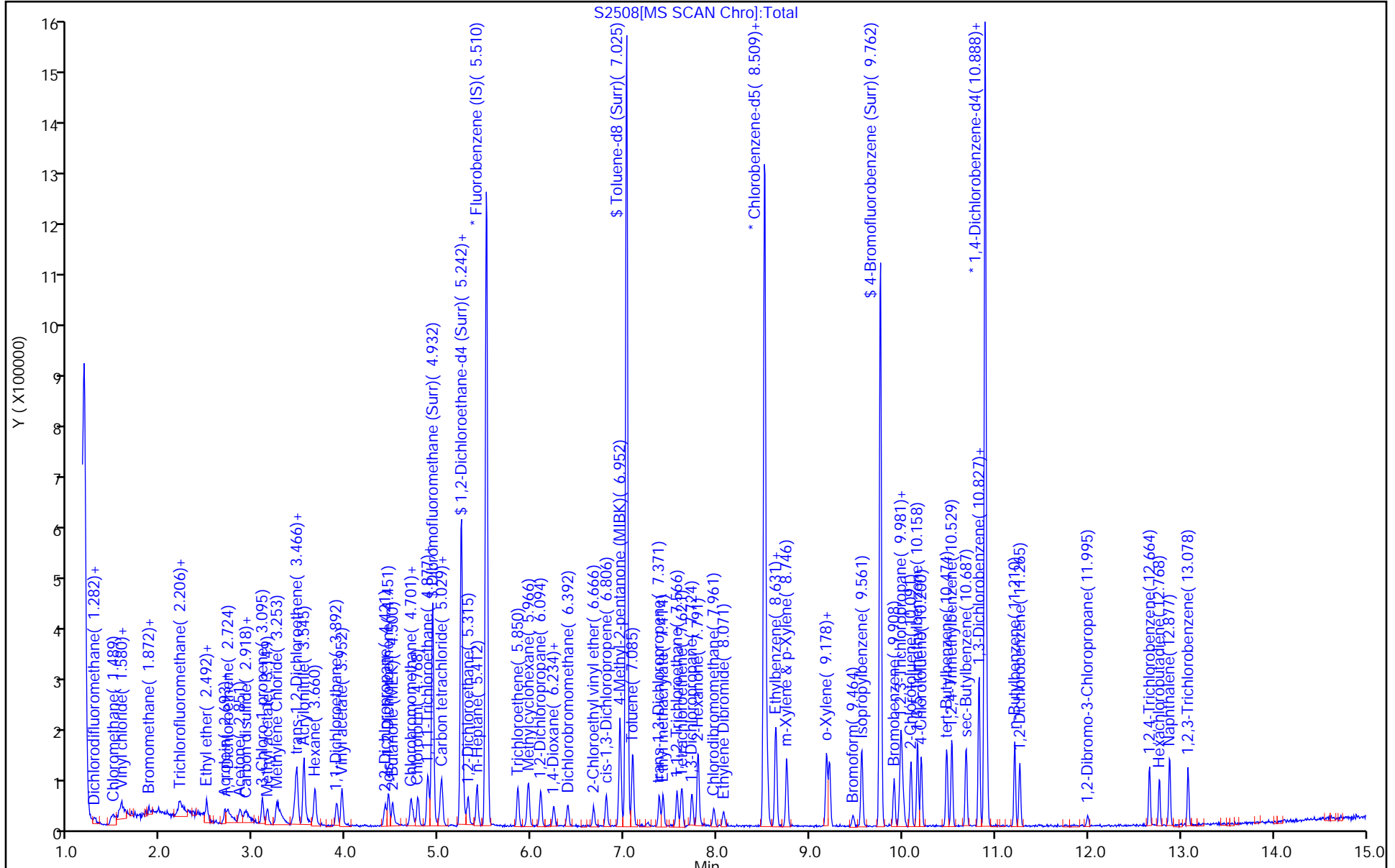
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

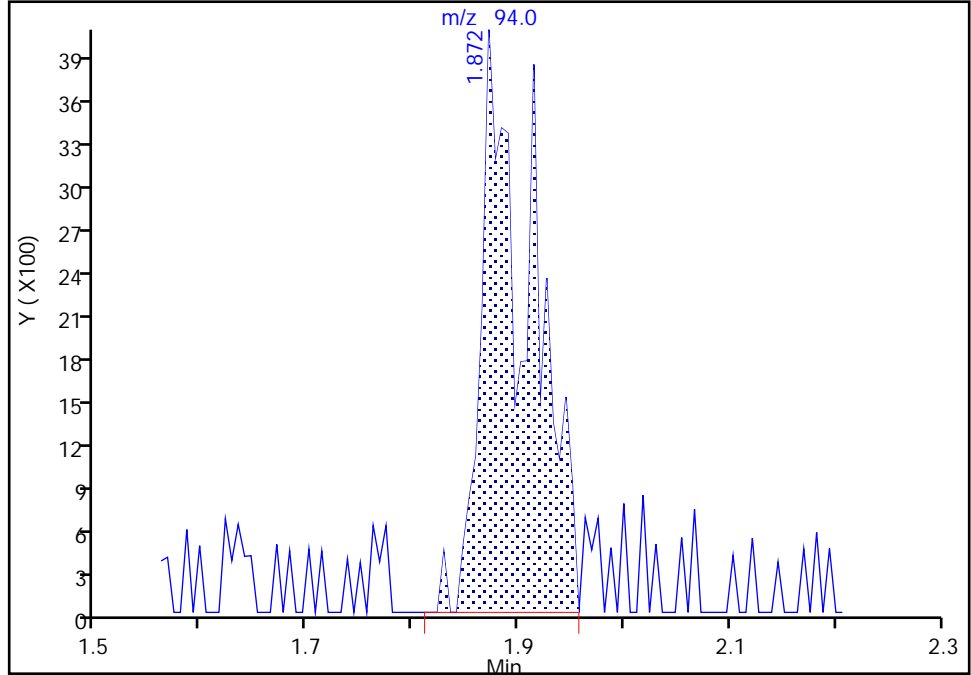
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

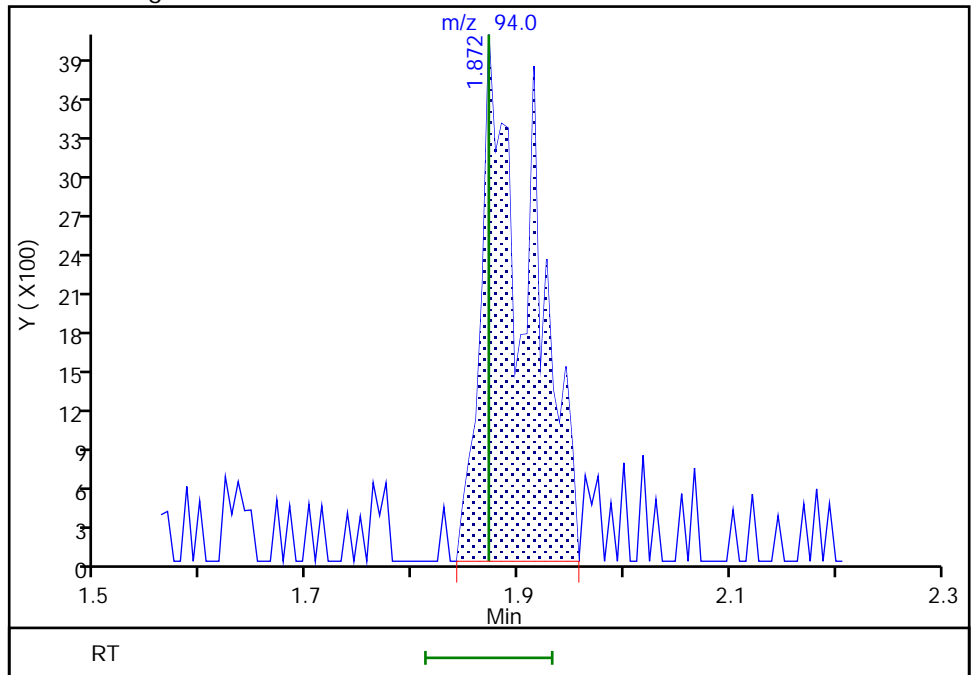
RT: 1.87
Area: 13255
Amount: 1.789184
Amount Units: ug/L

Processing Integration Results



RT: 1.87
Area: 13102
Amount: 1.770817
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:25
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

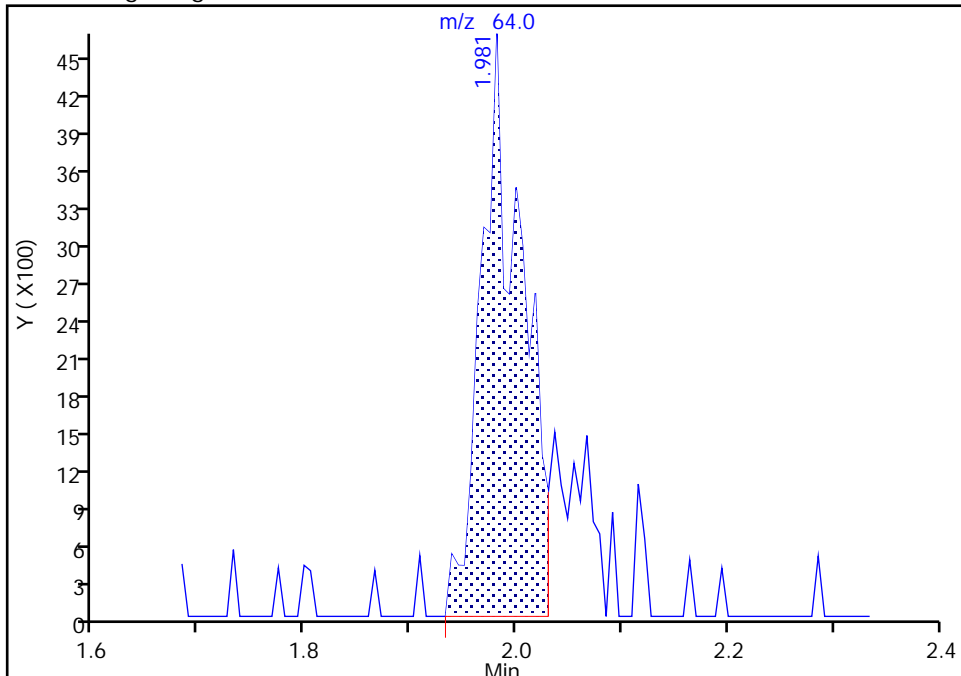
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

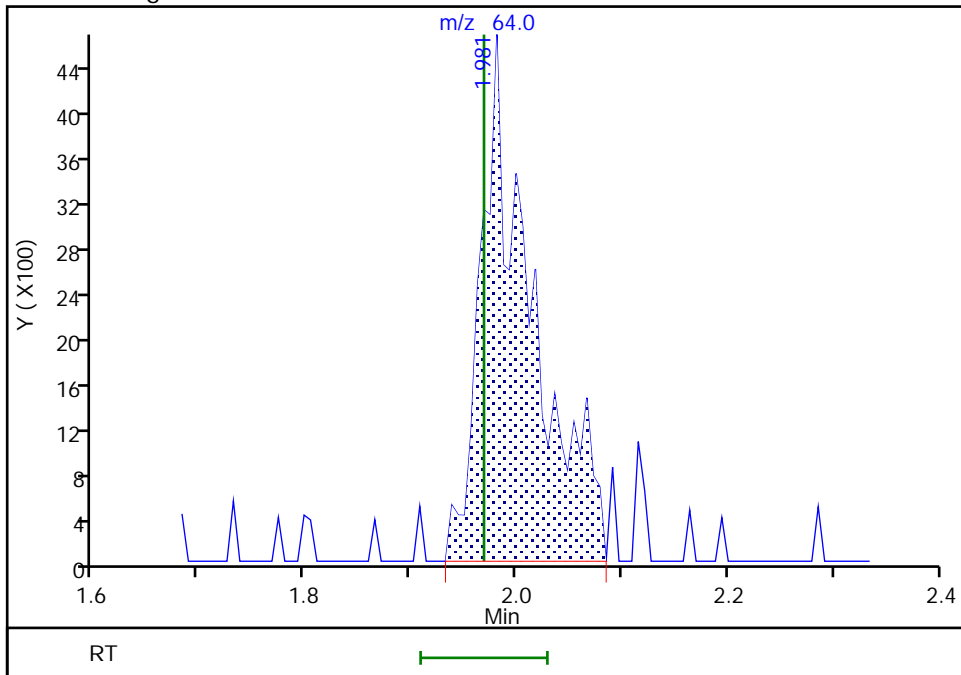
RT: 1.98
Area: 12491
Amount: 1.531681
Amount Units: ug/L

Processing Integration Results



RT: 1.98
Area: 15522
Amount: 1.857410
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:47:42
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

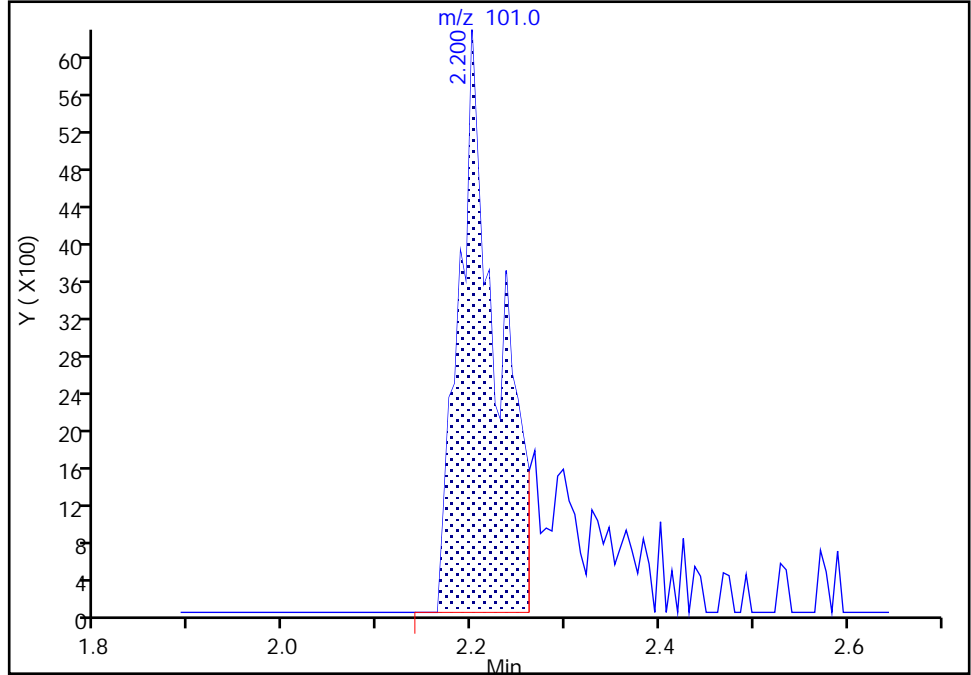
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

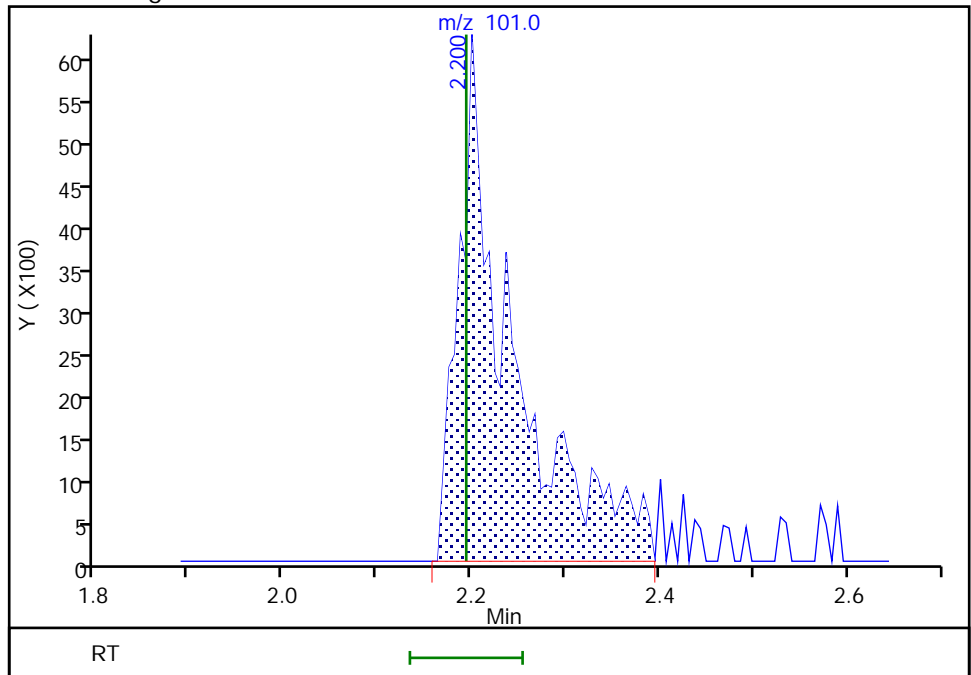
RT: 2.20
Area: 17555
Amount: 1.517755
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 24492
Amount: 1.872069
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:48:16
Audit Action: Manually Integrated

TestAmerica Buffalo

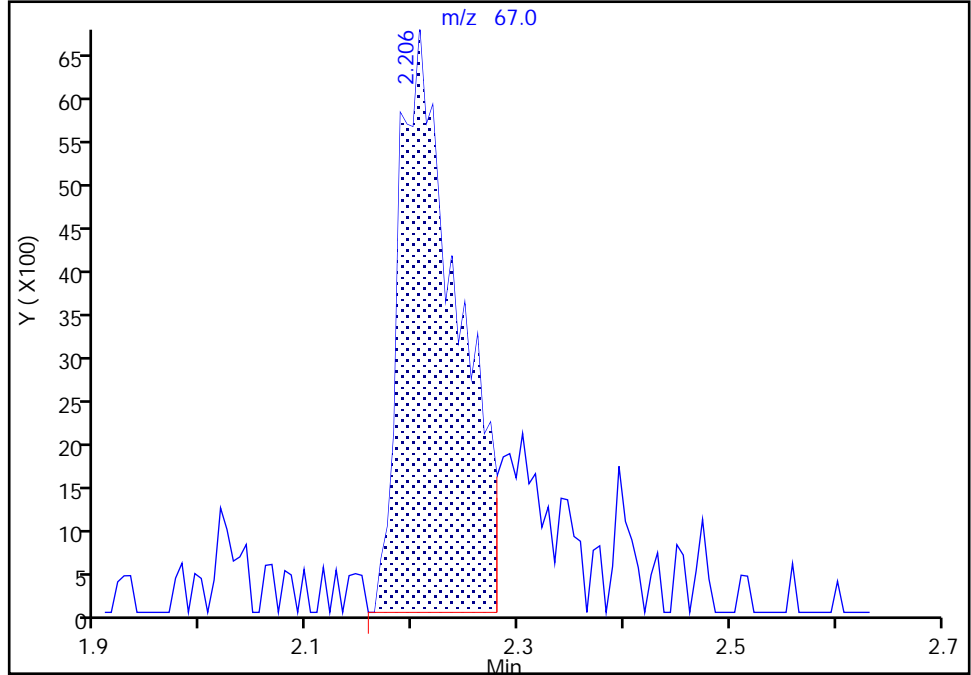
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

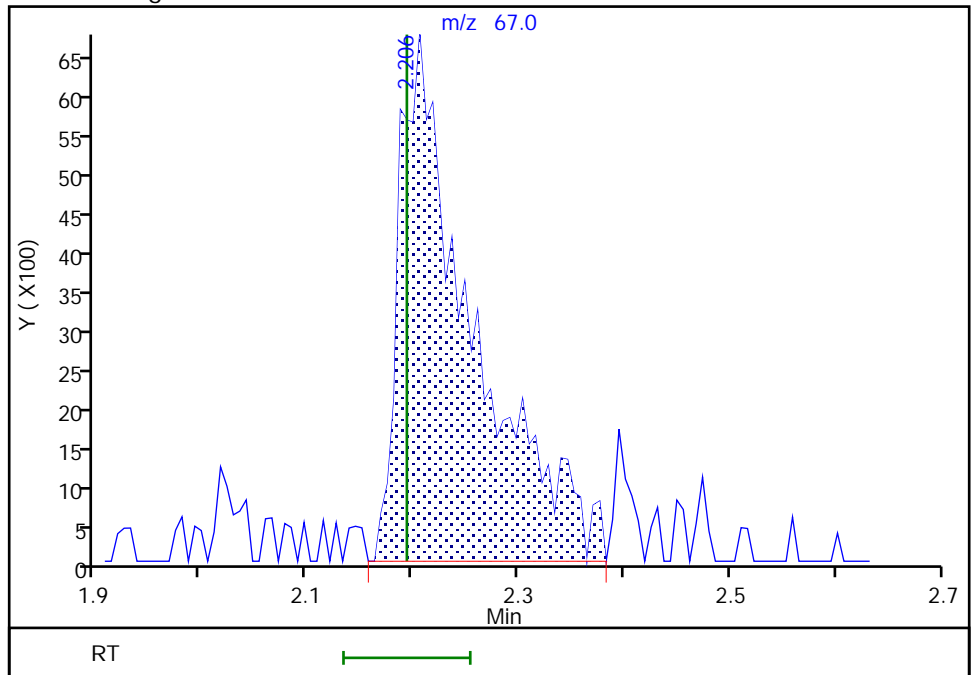
RT: 2.21
Area: 25443
Amount: 1.492939
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 32362
Amount: 1.767578
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:48:39
Audit Action: Manually Integrated

Audit Reason: Baseline
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TestAmerica Buffalo

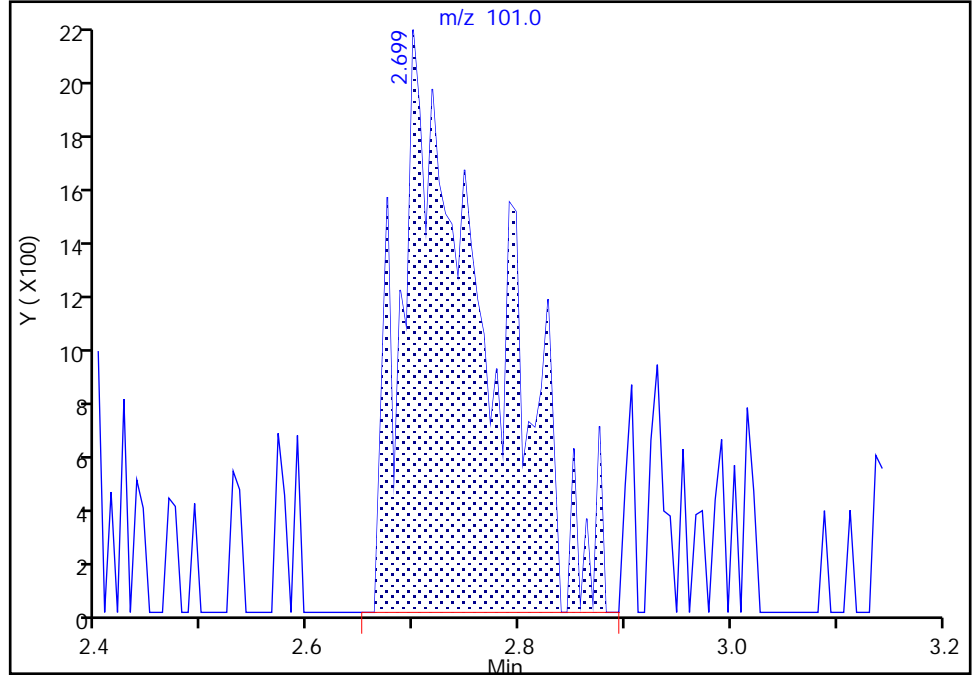
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

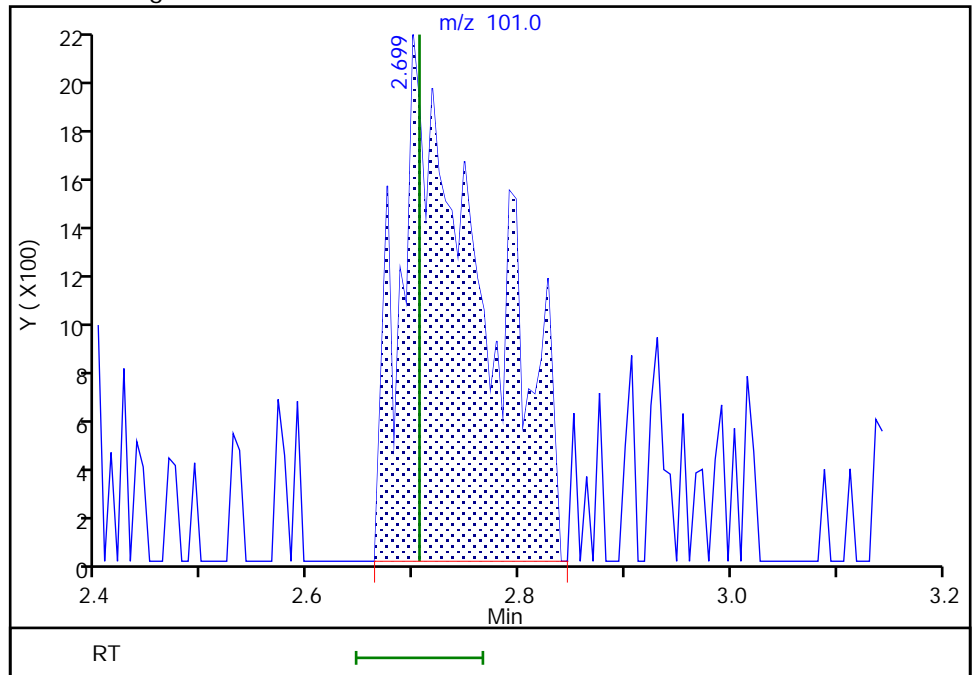
RT: 2.70
Area: 12735
Amount: 2.086698
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 12129
Amount: 1.875033
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:41
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

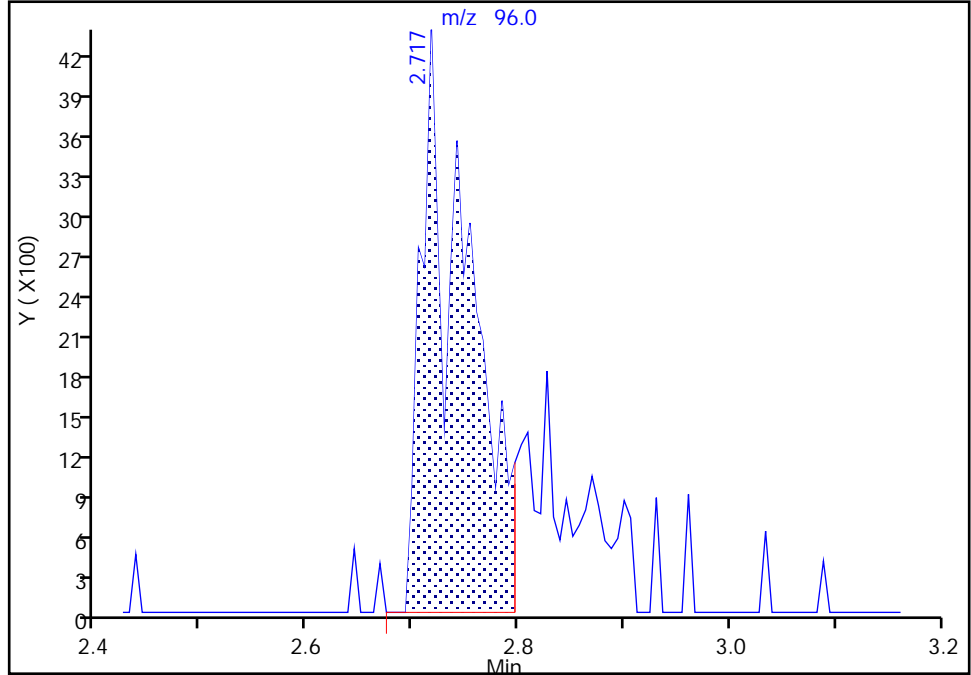
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

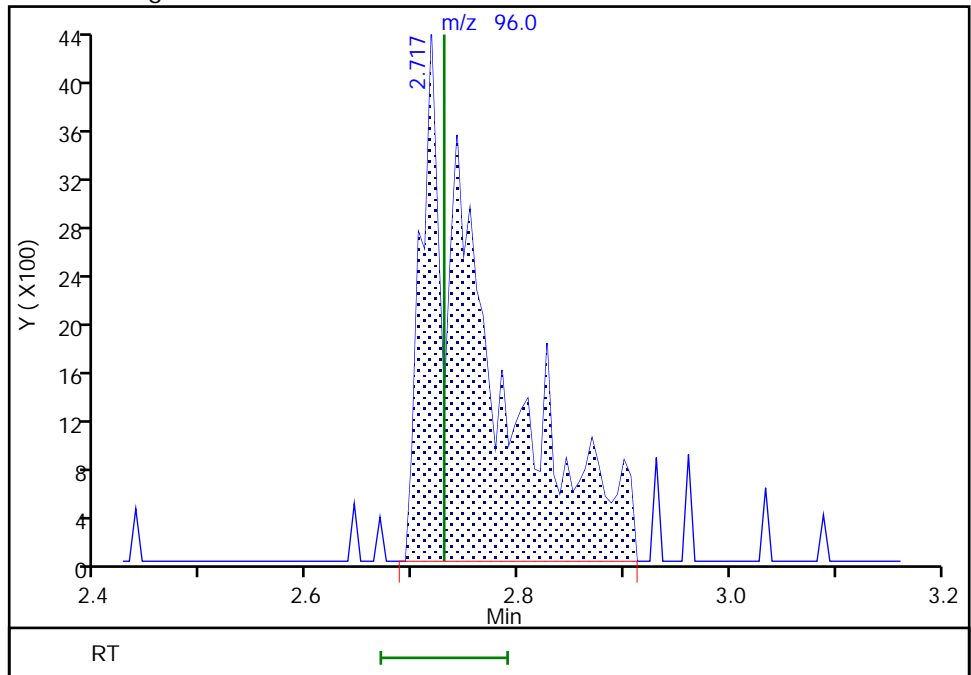
RT: 2.72
Area: 13311
Amount: 1.727229
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 18776
Amount: 2.094349
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:16:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

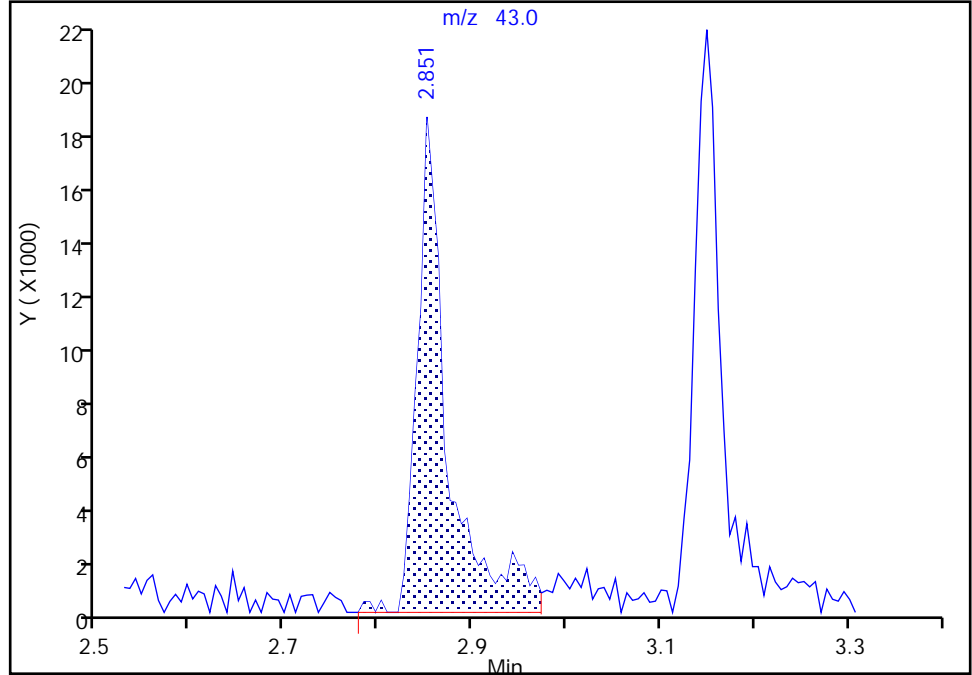
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

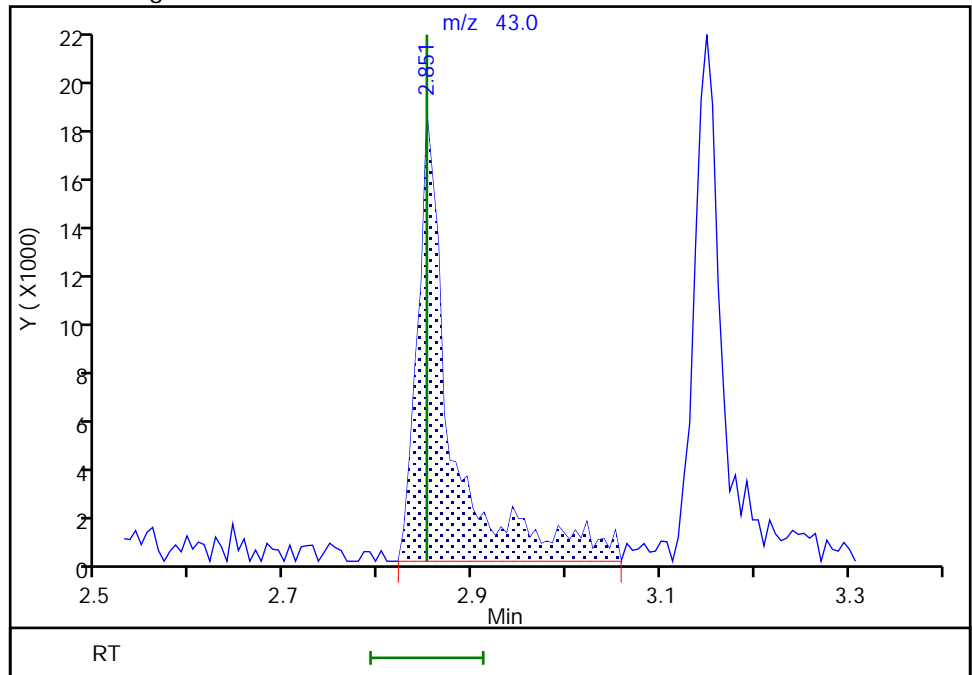
RT: 2.85
Area: 41648
Amount: 9.924223
Amount Units: ug/L

Processing Integration Results



RT: 2.85
Area: 45897
Amount: 11.753991
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:49:47
Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Buffalo

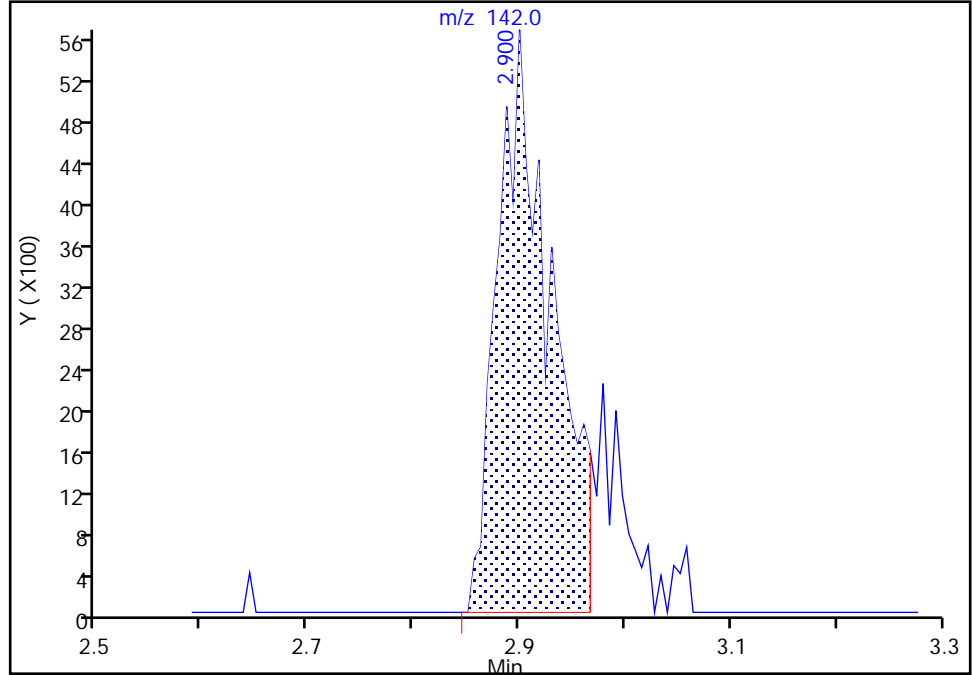
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

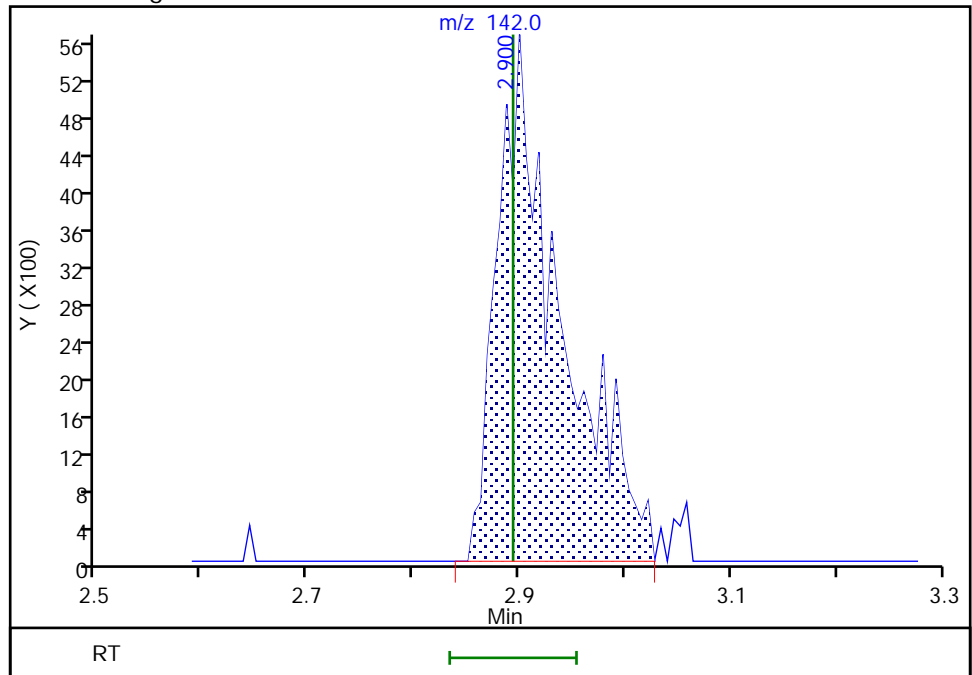
RT: 2.90
Area: 19972
Amount: 1.497511
Amount Units: ug/L

Processing Integration Results



RT: 2.90
Area: 23539
Amount: 1.795323
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:50:30
Audit Action: Manually Integrated

TestAmerica Buffalo

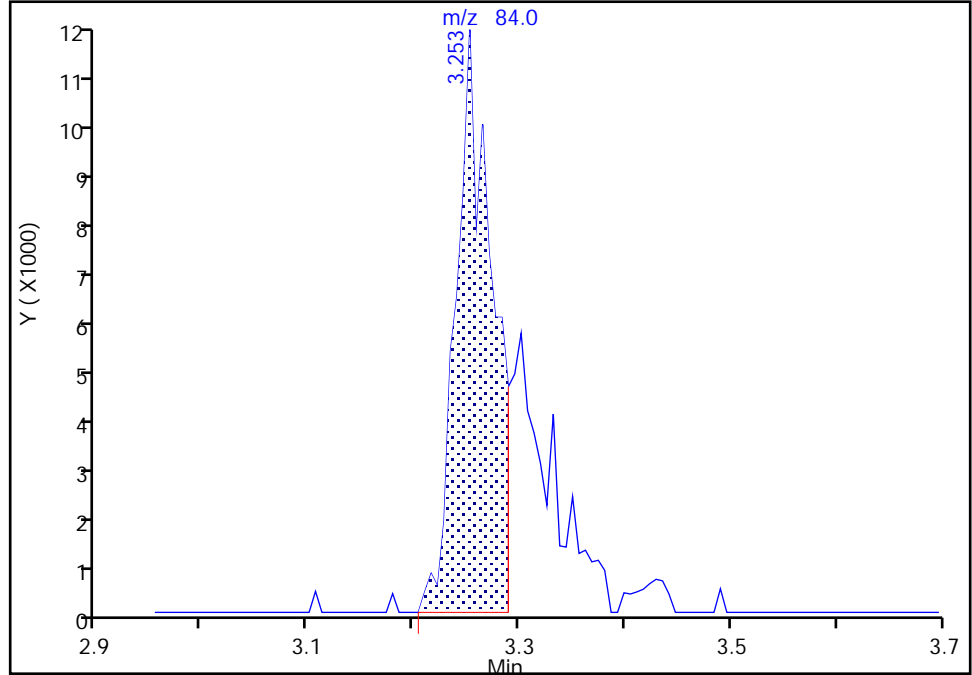
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

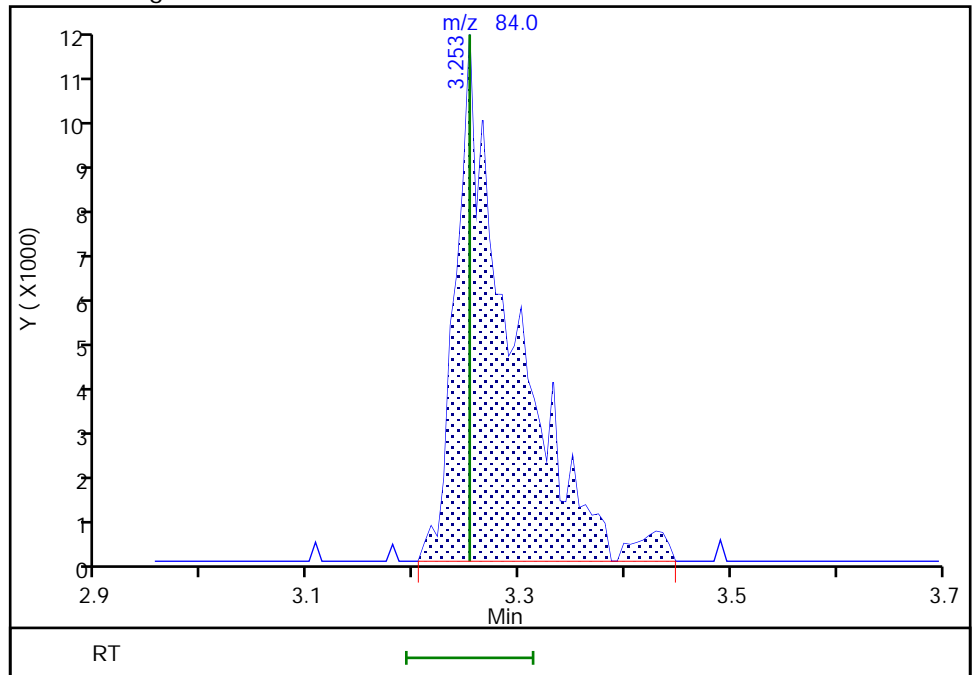
RT: 3.25
Area: 27629
Amount: 1.460418
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 42609
Amount: 2.057003
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:49:08
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

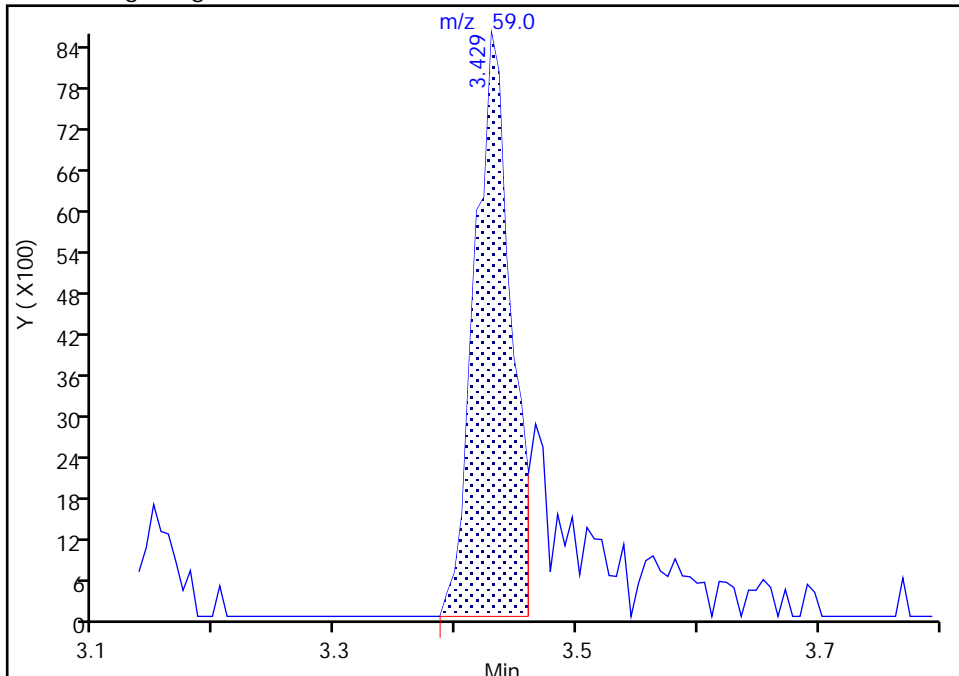
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

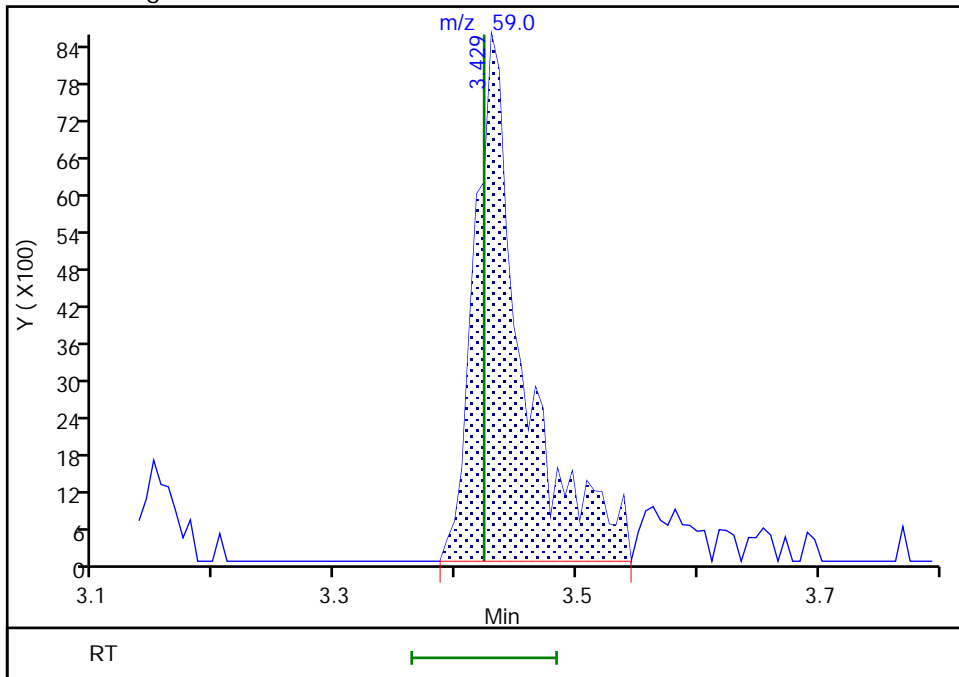
RT: 3.43
Area: 17955
Amount: 16.316635
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 23908
Amount: 18.070445
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:51:44
Audit Action: Manually Integrated

TestAmerica Buffalo

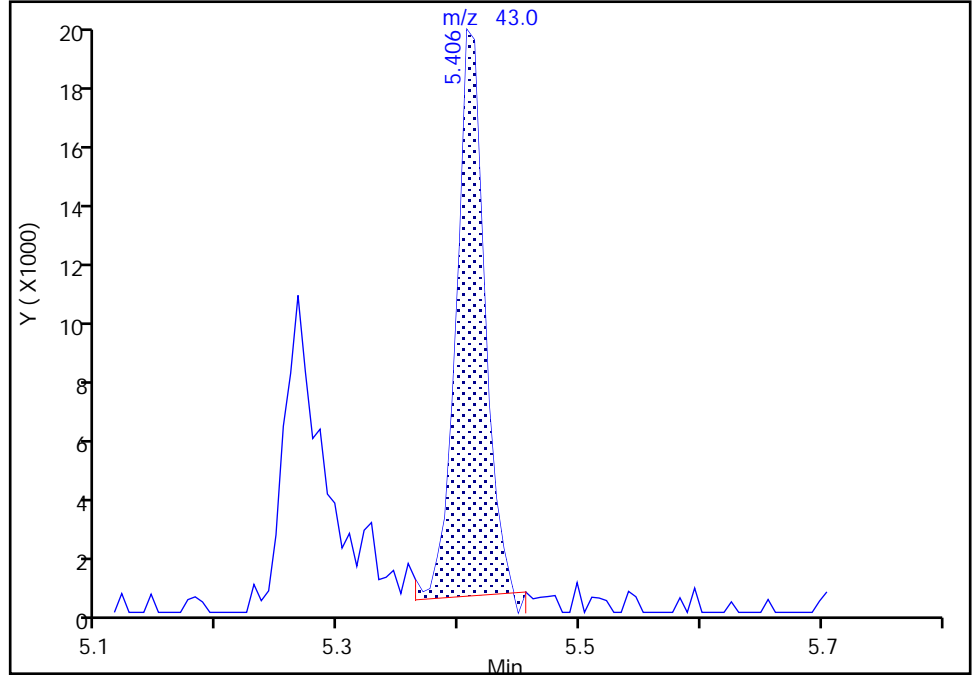
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

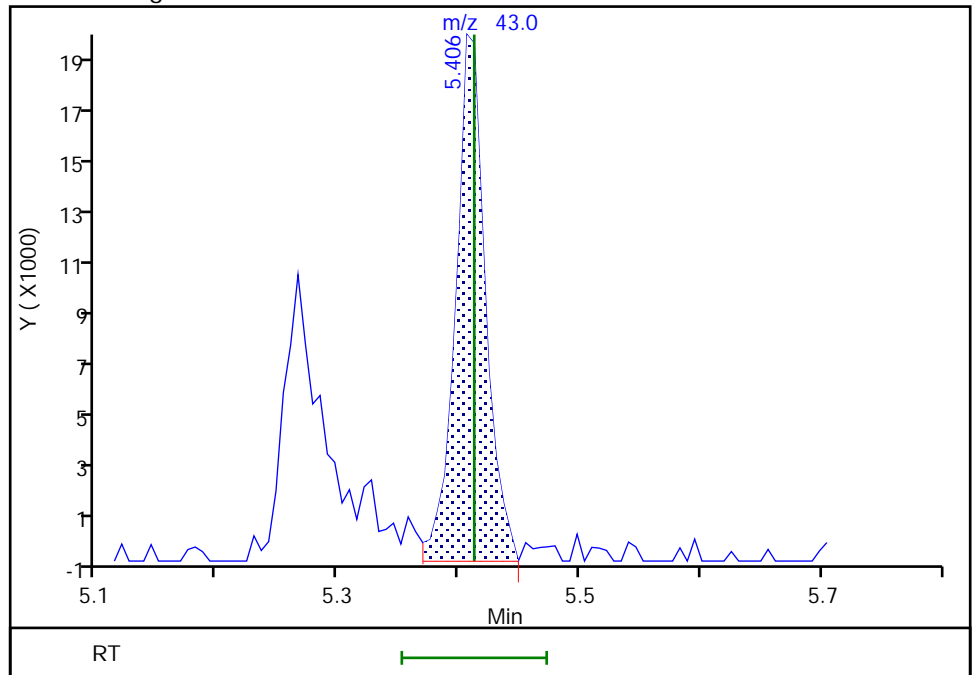
RT: 5.41
Area: 31472
Amount: 1.805730
Amount Units: ug/L

Processing Integration Results



RT: 5.41
Area: 34128
Amount: 1.939647
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:17:57
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

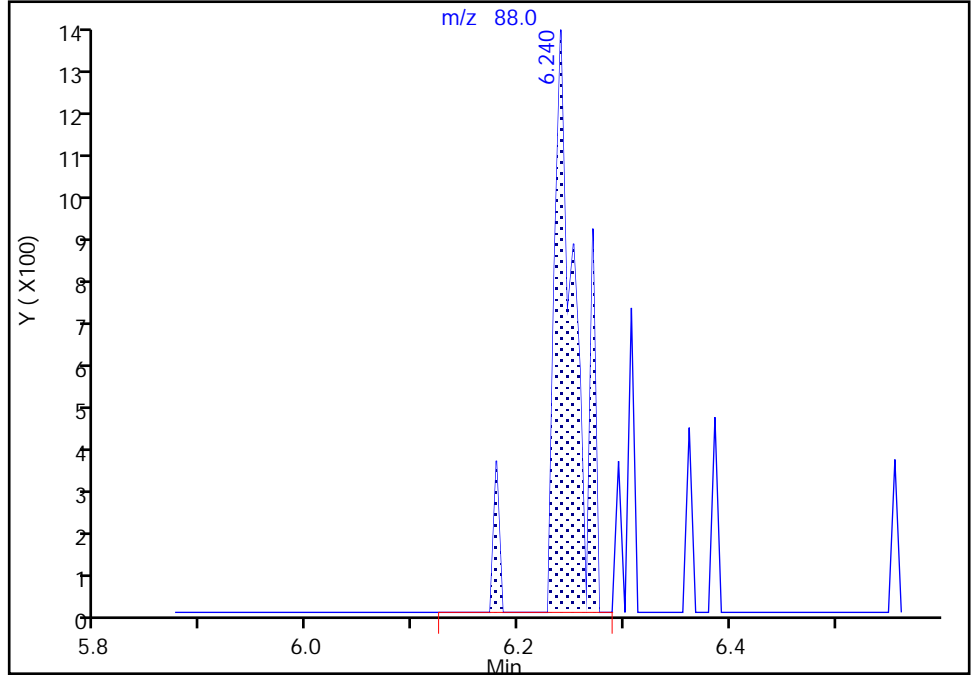
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Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

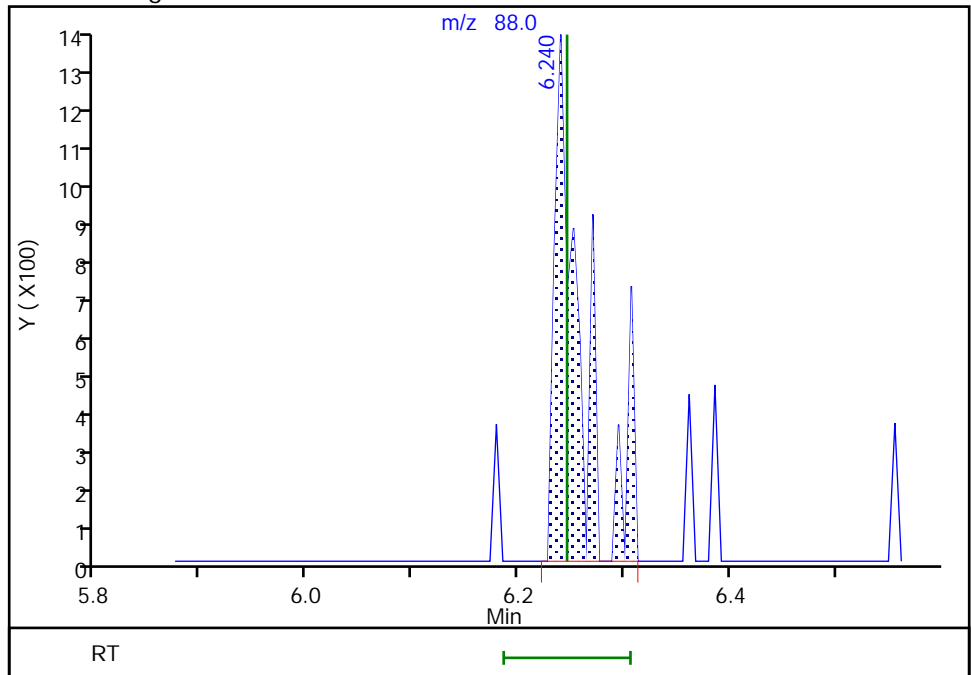
RT: 6.24
Area: 2010
Amount: 26.141337
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 2267
Amount: 38.583938
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:26:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 225 of 503

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Jun-2018 15:01:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0072482-008
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:51 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:19:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	194919	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	86	401283	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	93	371613	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	62	236175	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	162701	25.0	26.6	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	974777	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	298183	25.0	24.8	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	84	57375	5.00	6.11	
12 Chloromethane	50	1.464	1.464	0.000	98	78570	5.00	5.27	
13 Vinyl chloride	62	1.543	1.549	-0.006	81	72004	5.00	5.43	
151 Butadiene	54	1.574	1.574	0.000	56	74679	5.00	5.40	
14 Bromomethane	94	1.884	1.872	0.012	81	37490	5.00	5.28	
15 Chloroethane	64	1.988	1.969	0.019	70	42938	5.00	5.35	
16 Dichlorofluoromethane	67	2.207	2.194	0.013	79	94040	5.00	5.35	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	68	74675	5.00	5.94	M
18 Ethyl ether	59	2.492	2.492	0.000	82	59556	5.00	5.33	
20 Acrolein	56	2.687	2.687	0.000	90	50983	25.0	23.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	39	42648	5.00	5.88	M
22 1,1-Dichloroethene	96	2.718	2.730	-0.012	96	49334	5.00	5.73	
23 Acetone	43	2.845	2.851	-0.006	92	94147	25.0	25.1	
25 Iodomethane	142	2.894	2.894	0.000	93	69957	5.00	5.56	
26 Carbon disulfide	76	2.918	2.918	0.000	88	152614	5.00	5.56	
28 3-Chloro-1-propene	41	3.089	3.089	0.001	86	90419	5.00	5.42	
27 Methyl acetate	43	3.143	3.143	0.000	96	103471	10.0	10.5	
30 Methylene Chloride	84	3.247	3.253	-0.006	87	75350	5.00	5.30	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	84	62295	50.0	49.0	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	90	166404	5.00	5.16	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	55688	5.00	5.65	
33 Acrylonitrile	53	3.539	3.539	0.000	99	254614	50.0	48.7	
35 Hexane	57	3.654	3.660	-0.006	82	108267	5.00	5.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	92	110345	5.00	5.32	
37 Vinyl acetate	43	3.953	3.952	0.001	97	249498	10.0	10.4	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	89	64910	5.00	5.64	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	75	61673	5.00	5.45	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	92	142709	25.0	24.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	91	30101	5.00	5.56	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	36094	10.0	9.12	
50 Chloroform	83	4.768	4.774	-0.006	92	98890	5.00	5.46	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	88	74012	5.00	5.48	
52 Cyclohexane	56	4.877	4.883	-0.006	89	95397	5.00	5.25	
55 Carbon tetrachloride	117	5.017	5.011	0.006	86	61607	5.00	5.45	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	89	71332	5.00	5.19	
57 Benzene	78	5.236	5.236	0.000	75	223580	5.00	5.41	
53 Isobutyl alcohol	43	5.267	5.266	0.001	92	61251	125.0	114.5	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	70	87871	5.00	5.26	
59 n-Heptane	43	5.413	5.412	0.001	86	95852	5.00	5.67	
62 Trichloroethene	95	5.851	5.850	0.001	93	60191	5.00	5.64	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	95854	5.00	5.90	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	94	65633	5.00	5.26	
67 Dibromomethane	93	6.240	6.234	0.006	86	33662	5.00	5.17	
66 1,4-Dioxane	88	6.240	6.246	-0.006	26	6969	100.0	89.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	95	68190	5.00	5.44	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	87	42348	5.00	5.09	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	87	84252	5.00	5.34	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	326171	25.0	25.5	
74 Toluene	92	7.092	7.085	0.007	80	140875	5.00	5.28	
77 trans-1,3-Dichloropropene	75	7.378	7.377	0.001	87	70774	5.00	4.82	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	74867	5.00	5.20	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	91	41694	5.00	5.19	
81 Tetrachloroethene	166	7.621	7.615	0.006	81	58888	5.00	5.23	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	93	81753	5.00	4.82	
80 2-Hexanone	43	7.791	7.791	0.000	79	246316	25.0	26.1	
83 Chlorodibromomethane	129	7.962	7.961	0.001	82	45191	5.00	4.94	
84 Ethylene Dibromide	107	8.071	8.071	0.000	90	52152	5.00	5.15	
87 Chlorobenzene	112	8.540	8.539	0.001	90	153908	5.00	5.27	
88 Ethylbenzene	91	8.631	8.631	0.000	99	260118	5.00	5.41	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	54	46444	5.00	4.91	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	101199	5.00	5.17	
91 o-Xylene	106	9.178	9.178	0.000	98	97848	5.00	5.27	
92 Styrene	104	9.209	9.209	0.000	93	168072	5.00	5.28	
95 Bromoform	173	9.464	9.464	0.000	91	26624	5.00	4.56	
94 Isopropylbenzene	105	9.562	9.561	0.001	94	261022	5.00	5.57	
101 Bromobenzene	156	9.908	9.908	0.000	93	62196	5.00	5.25	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	81	66963	5.00	5.26	
99 N-Propylbenzene	91	9.981	9.987	-0.006	98	304106	5.00	5.60	
100 1,2,3-Trichloropropane	110	10.000	9.999	0.001	67	22292	5.00	5.32	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	65	18263	5.00	4.51	
103 2-Chlorotoluene	126	10.091	10.091	0.000	95	60025	5.00	5.13	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	83	214731	5.00	5.28	
105 4-Chlorotoluene	126	10.206	10.200	0.006	93	62670	5.00	5.23	
106 tert-Butylbenzene	134	10.474	10.474	0.000	90	48709	5.00	5.62	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	75	223814	5.00	5.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	90	261311	5.00	5.36	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	231080	5.00	5.51	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	119848	5.00	5.20	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	75	127844	5.00	5.44	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	208379	5.00	5.51	
116 1,2-Dichlorobenzene	146	11.259	11.265	-0.006	90	123068	5.00	5.43	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	47	11203	5.00	4.54	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	91	80426	5.00	4.99	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	89	39788	5.00	5.16	
121 Naphthalene	128	12.877	12.877	0.000	97	221088	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	79276	5.00	5.33	
S 124 Xylenes, Total	1				0			10.4	
S 126 1,3-Dichloropropene, Total	1				0			10.2	
S 123 Total BTEX	1				0			26.5	
S 125 1,2-Dichloroethene, Total	1				0			11.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 5.00

Units: uL

GAS CORP mix_00287

Amount Added: 5.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D

Injection Date: 20-Jun-2018 15:01:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 3

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

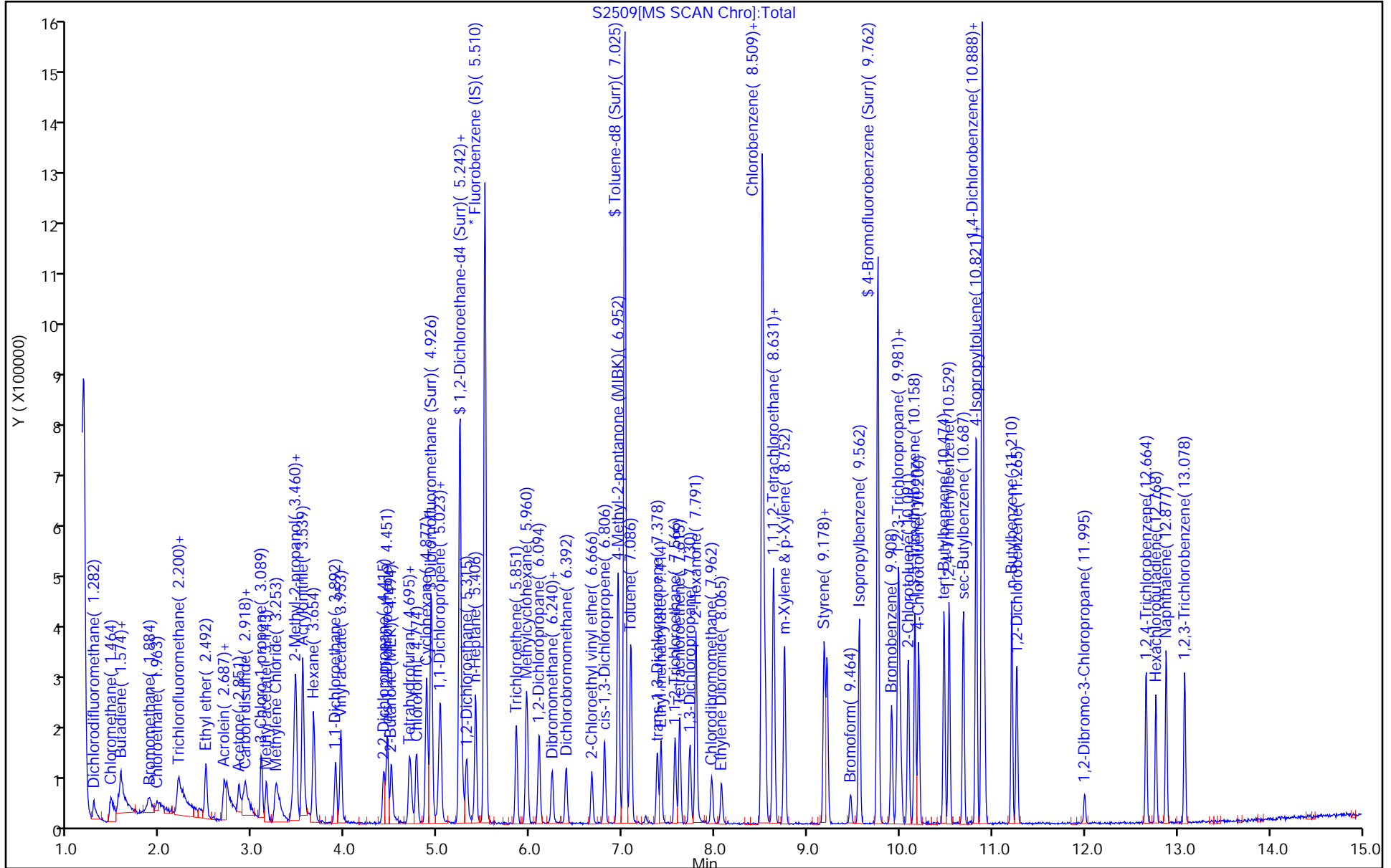
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

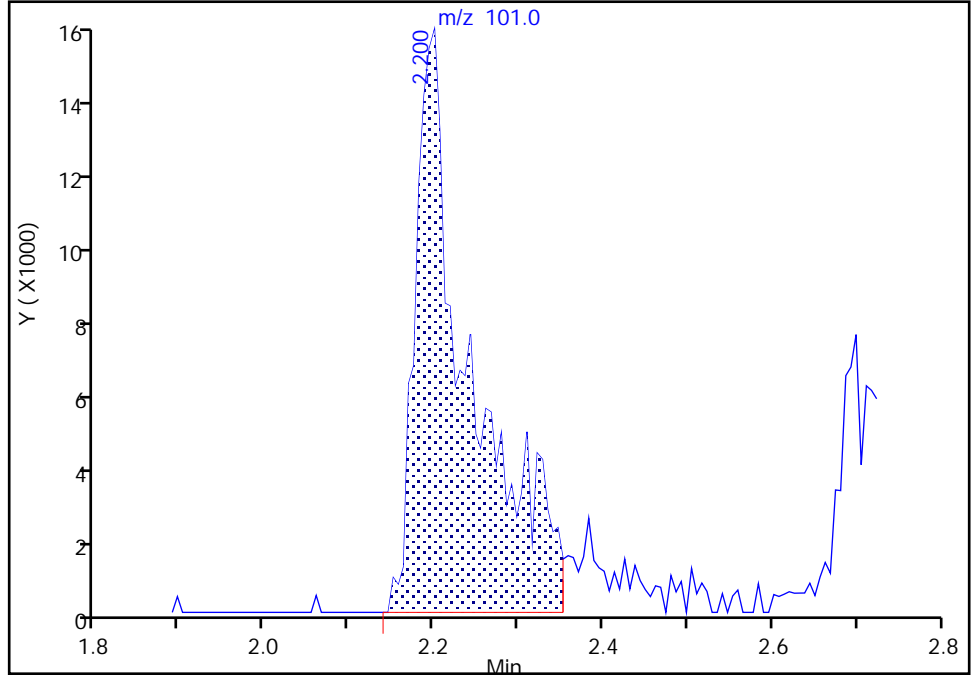
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

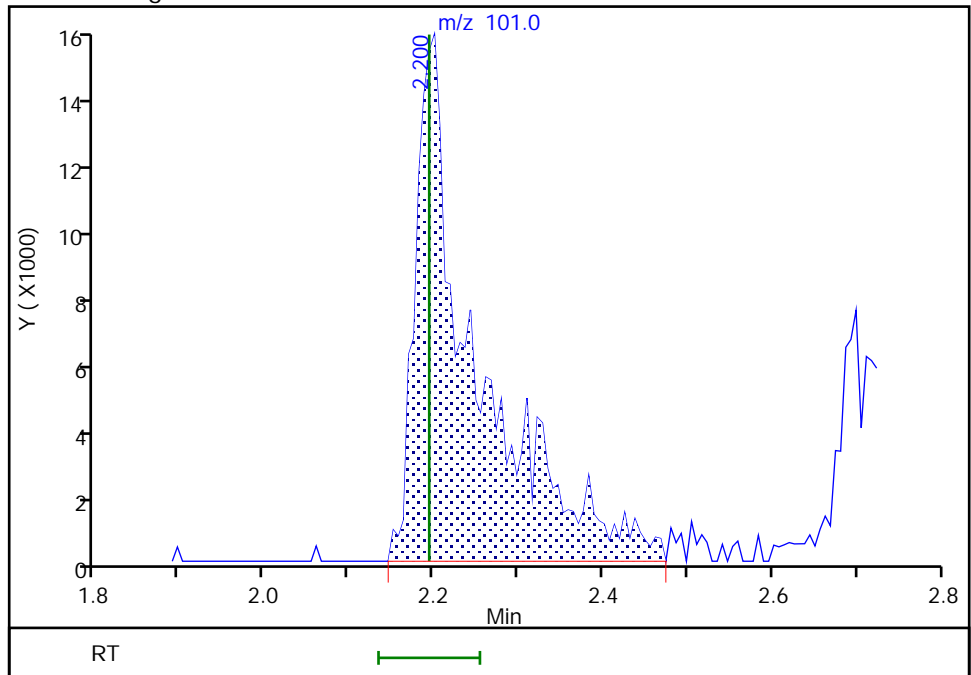
RT: 2.20
Area: 67404
Amount: 5.262149
Amount Units: ug/L

Processing Integration Results



RT: 2.20
Area: 74675
Amount: 5.943261
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:53:53
Audit Action: Manually Integrated

TestAmerica Buffalo

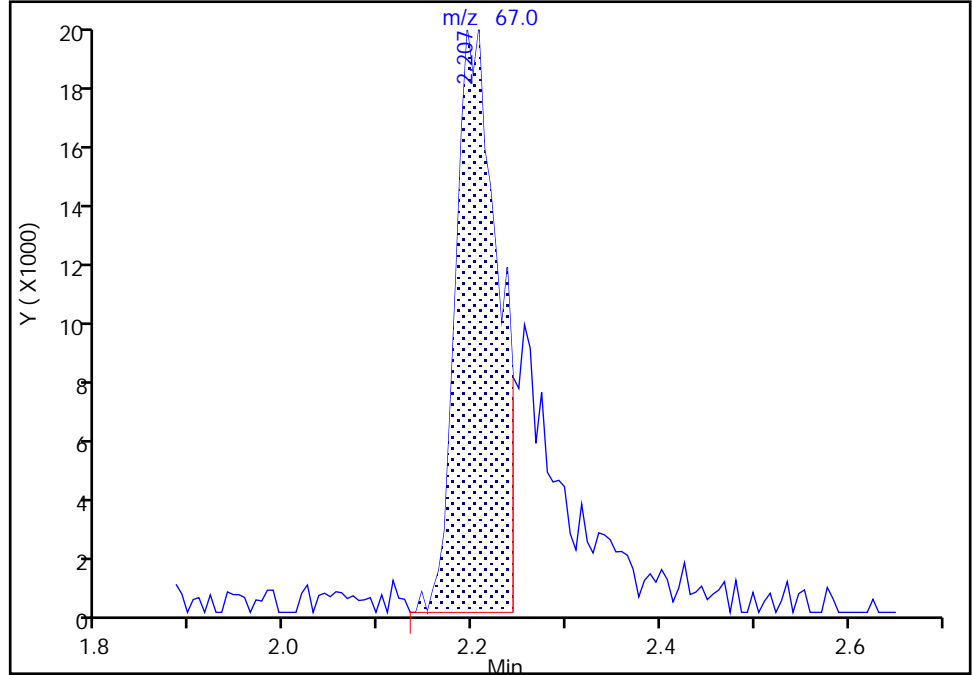
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

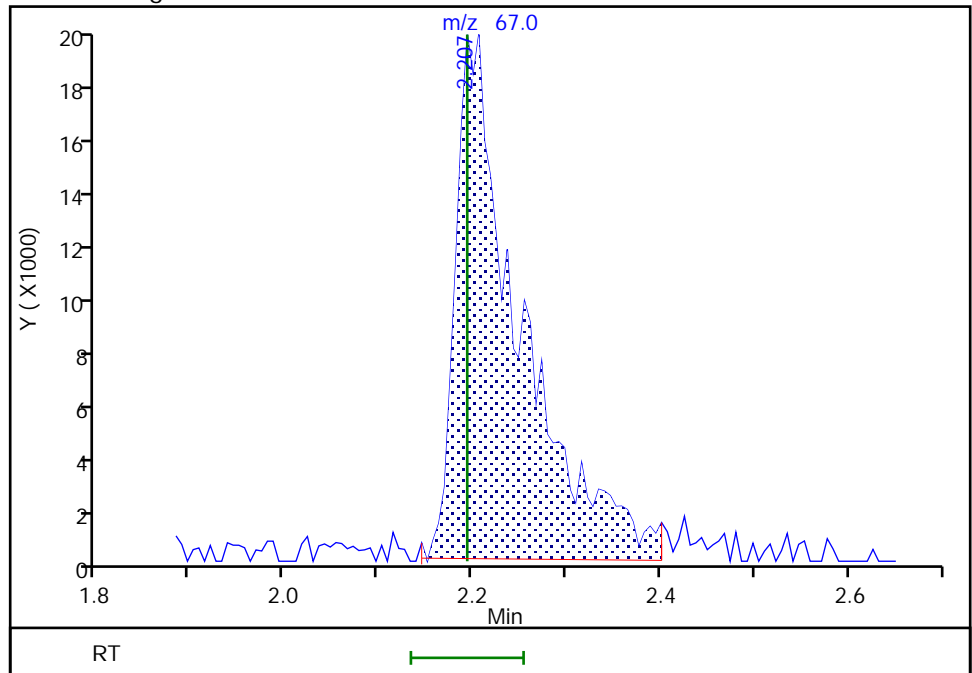
RT: 2.21
Area: 62001
Amount: 3.732710
Amount Units: ug/L

Processing Integration Results



RT: 2.21
Area: 94040
Amount: 5.348202
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 22:53:24
Audit Action: Manually Integrated

TestAmerica Buffalo

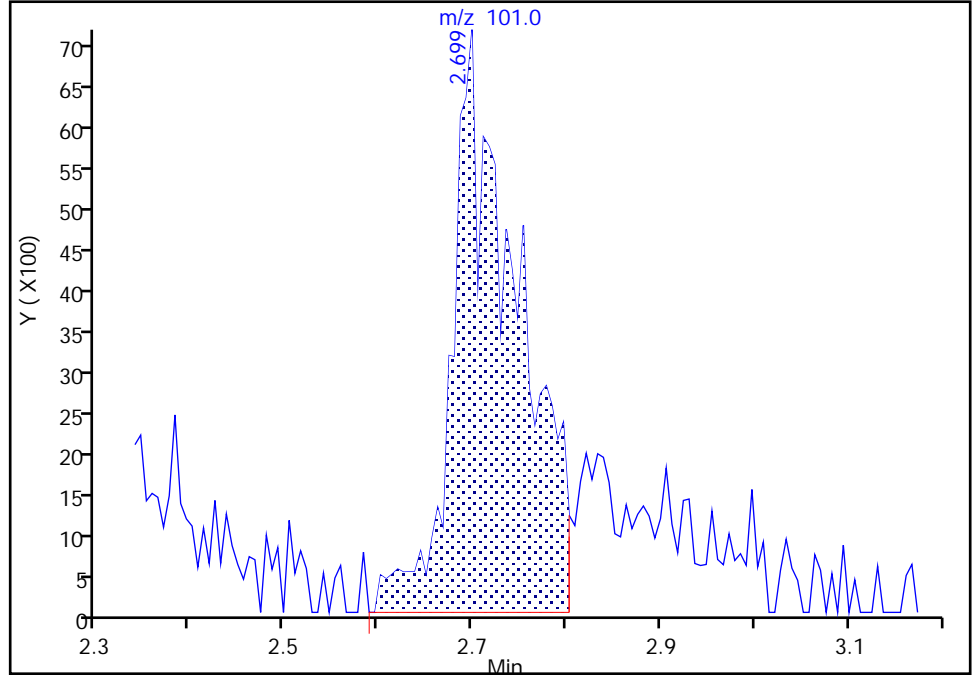
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

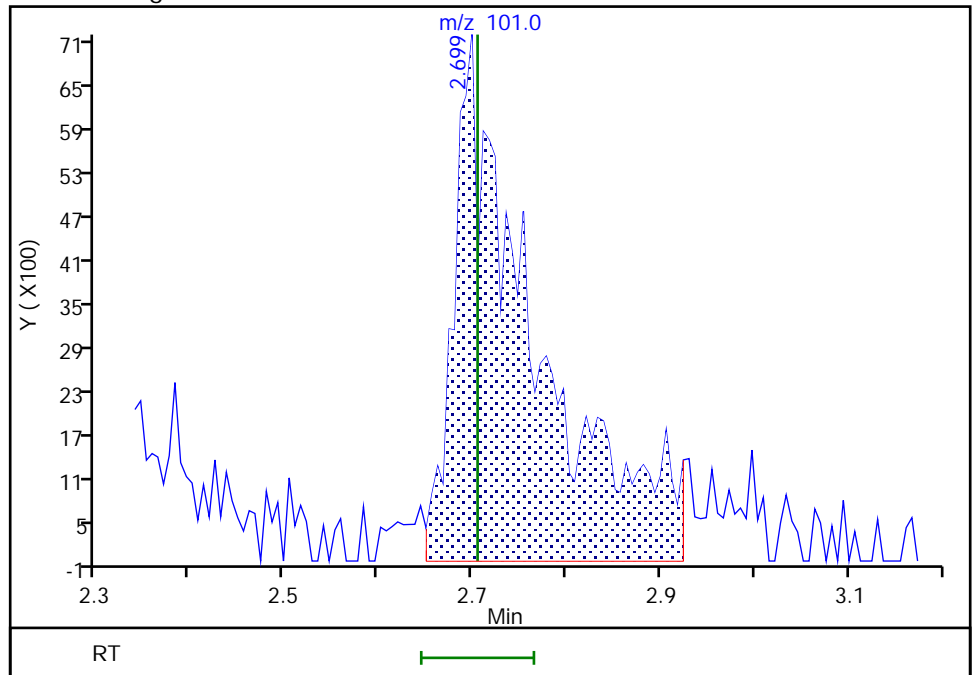
RT: 2.70
Area: 34329
Amount: 5.577335
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 42648
Amount: 5.877613
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:20:47
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

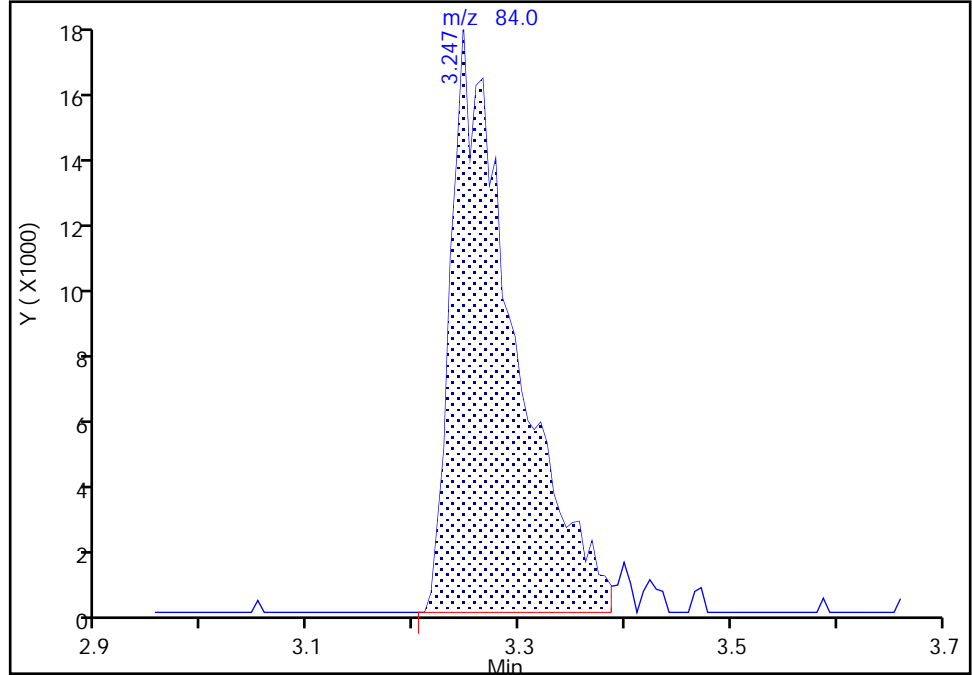
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

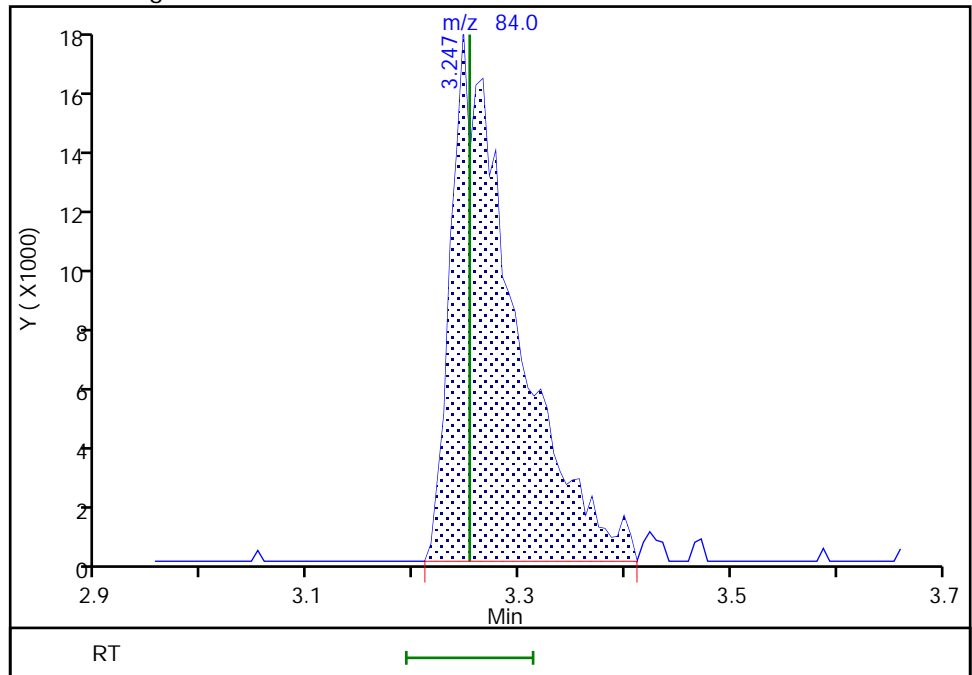
RT: 3.25
Area: 74156
Amount: 5.210539
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 75350
Amount: 5.299668
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:43:48
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

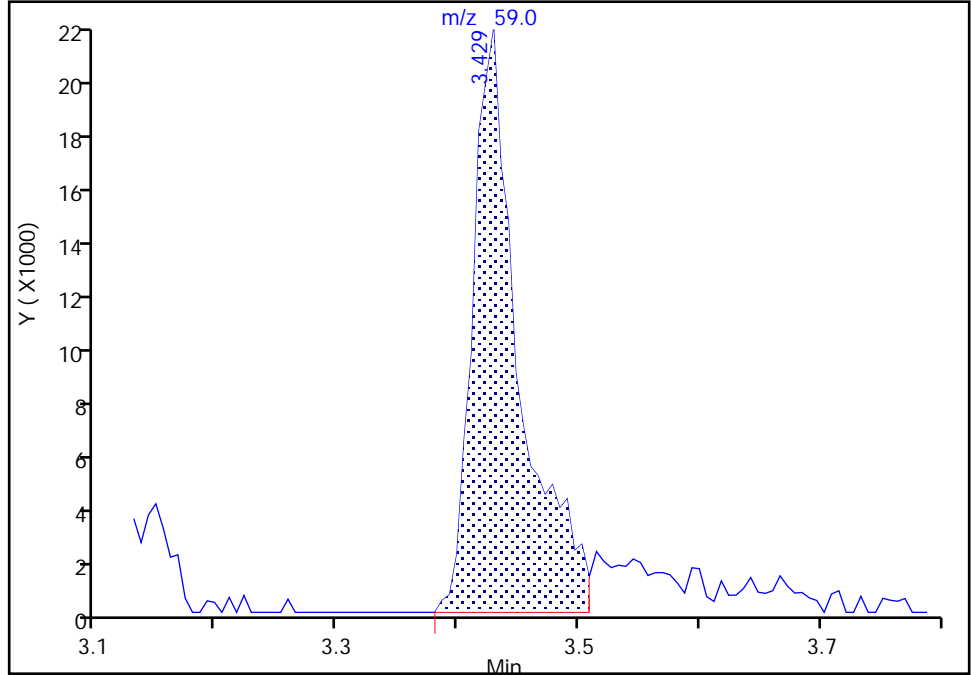
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

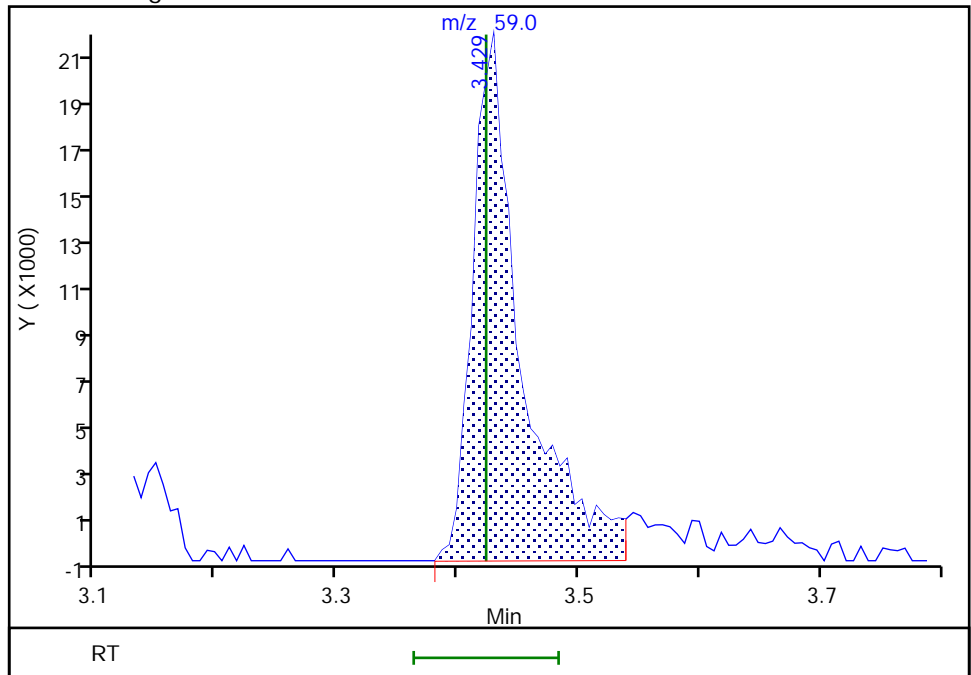
RT: 3.43
Area: 58800
Amount: 52.791577
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 62295
Amount: 49.026488
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:51:26
Audit Action: Manually Integrated

TestAmerica Buffalo

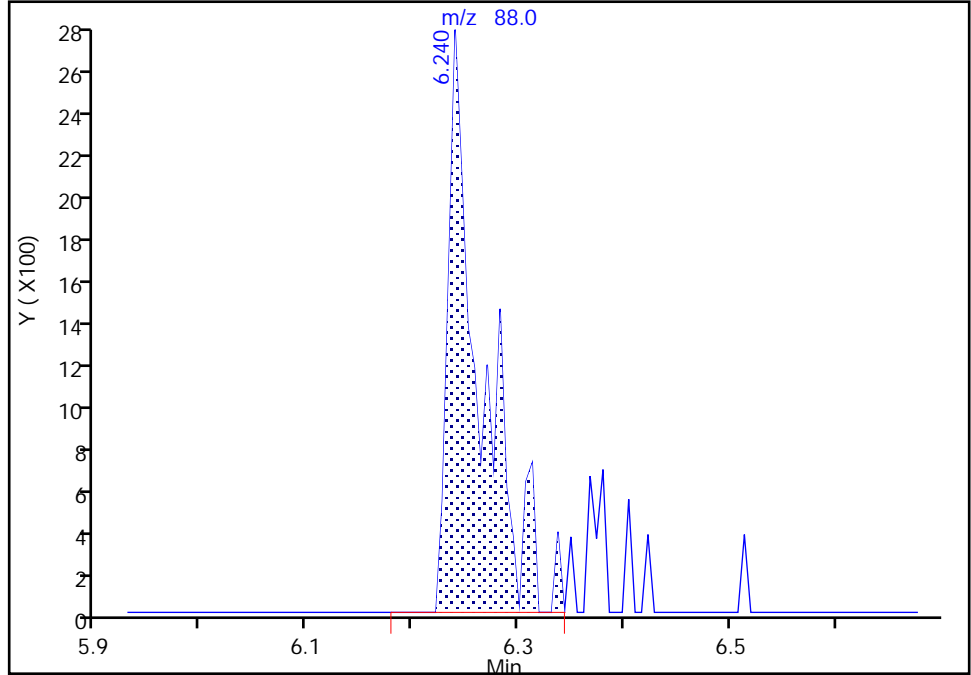
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Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

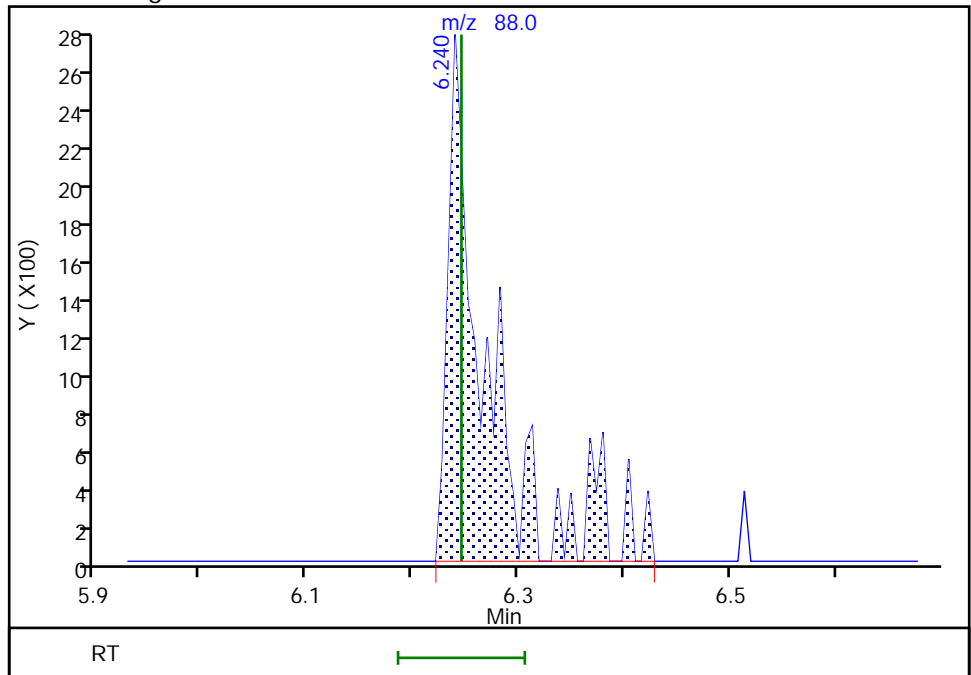
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Area: 5894
Amount: 69.560976
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 6969
Amount: 89.712458
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:21:46
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-Jun-2018 15:24:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0072482-009
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:56 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:35:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	204294	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.515	8.509	0.006	86	404541	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	96	369559	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	237971	25.0	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	153221	25.0	23.9	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	981631	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	292377	25.0	24.2	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	95	100661	10.0	10.2	
12 Chloromethane	50	1.470	1.464	0.006	88	158120	10.0	10.1	
13 Vinyl chloride	62	1.549	1.549	0.000	95	135746	10.0	9.77	
151 Butadiene	54	1.580	1.574	0.006	84	141422	10.0	9.76	
14 Bromomethane	94	1.872	1.872	0.000	79	70373	10.0	9.45	
15 Chloroethane	64	1.975	1.969	0.006	82	79988	10.0	9.51	
17 Trichlorofluoromethane	101	2.206	2.194	0.012	72	122840	10.0	9.33	
16 Dichlorofluoromethane	67	2.200	2.194	0.006	94	161069	10.0	8.74	
18 Ethyl ether	59	2.498	2.492	0.006	85	119421	10.0	10.2	
20 Acrolein	56	2.687	2.687	0.000	89	106044	50.0	47.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.705	0.006	54	83709	10.0	10.7	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	90	96639	10.0	10.7	M
23 Acetone	43	2.851	2.851	0.000	97	172269	50.0	43.8	
25 Iodomethane	142	2.888	2.894	-0.006	96	139498	10.0	10.6	
26 Carbon disulfide	76	2.918	2.918	0.000	96	285284	10.0	9.92	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	86	155269	10.0	8.87	
27 Methyl acetate	43	3.149	3.143	0.006	95	190812	20.0	18.5	M
30 Methylene Chloride	84	3.253	3.253	0.000	94	127431	10.0	9.65	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	92	137981	100.0	103.6	M
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	330882	10.0	9.78	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	82	105184	10.0	10.2	
33 Acrylonitrile	53	3.539	3.539	0.000	100	554059	100.0	101.0	
35 Hexane	57	3.660	3.660	0.000	84	187621	10.0	9.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	97	221389	10.0	10.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	522220	20.0	20.8	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	117878	10.0	9.78	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	79	125542	10.0	10.6	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	291158	50.0	48.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	94	56519	10.0	9.97	
49 Tetrahydrofuran	42	4.713	4.713	0.000	85	78819	20.0	19.0	
50 Chloroform	83	4.774	4.774	0.000	93	185827	10.0	9.79	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	88	136975	10.0	9.68	
52 Cyclohexane	56	4.877	4.883	-0.006	89	192312	10.0	10.1	M
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	116898	10.0	9.86	
54 1,1-Dichloropropene	75	5.035	5.029	0.006	95	138232	10.0	9.59	
57 Benzene	78	5.242	5.236	0.006	92	434302	10.0	10.0	
53 Isobutyl alcohol	43	5.272	5.266	0.006	93	139911	250.0	249.6	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	76	175124	10.0	10.0	
59 n-Heptane	43	5.412	5.412	0.000	89	170684	10.0	9.64	
62 Trichloroethene	95	5.850	5.850	0.000	95	111214	10.0	9.95	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	172282	10.0	10.1	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	96	133728	10.0	10.2	
67 Dibromomethane	93	6.234	6.234	0.000	92	73081	10.0	10.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	11	18780	200.0	217.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	96	133887	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	86	88719	10.0	10.2	
72 cis-1,3-Dichloropropene	75	6.799	6.806	-0.007	88	174306	10.0	10.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	670794	50.0	51.9	
74 Toluene	92	7.091	7.085	0.006	88	273964	10.0	10.2	
77 trans-1,3-Dichloropropene	75	7.371	7.377	-0.006	96	157325	10.0	10.6	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	153587	10.0	10.6	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	90	81284	10.0	10.0	
81 Tetrachloroethene	166	7.621	7.615	0.006	75	114249	10.0	10.1	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	92	178659	10.0	10.5	
80 2-Hexanone	43	7.791	7.791	0.000	91	493778	50.0	51.9	
83 Chlorodibromomethane	129	7.961	7.961	0.000	86	97396	10.0	10.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	104411	10.0	10.2	
87 Chlorobenzene	112	8.539	8.539	0.000	92	300247	10.0	10.2	
88 Ethylbenzene	91	8.631	8.631	0.000	99	505219	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	56	101180	10.0	10.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	193403	10.0	9.81	
91 o-Xylene	106	9.178	9.178	0.000	97	196385	10.0	10.5	
92 Styrene	104	9.215	9.209	0.006	93	331254	10.0	10.3	
95 Bromoform	173	9.464	9.464	0.000	93	60675	10.0	10.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	487020	10.0	10.5	
101 Bromobenzene	156	9.908	9.908	0.000	95	123511	10.0	10.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	73	132068	10.0	10.4	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	572209	10.0	10.6	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	44716	10.0	10.7	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	75	40802	10.0	9.41	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	115644	10.0	9.95	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	95	432135	10.0	10.7	
105 4-Chlorotoluene	126	10.200	10.200	0.000	81	123635	10.0	10.4	
106 tert-Butylbenzene	134	10.474	10.474	0.000	91	90461	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	54	441006	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	506385	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	236904	10.0	10.3	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	450095	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	242101	10.0	10.4	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	394458	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	241629	10.0	10.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	69	24435	10.0	9.95	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	165528	10.0	10.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	92	77538	10.0	10.1	
121 Naphthalene	128	12.877	12.877	0.000	97	468207	10.0	10.7	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	161462	10.0	10.9	
S 123 Total BTEX	1				0			50.9	
S 125 1,2-Dichloroethene, Total	1				0			20.8	
S 124 Xylenes, Total	1				0			20.3	
S 126 1,3-Dichloropropene, Total	1				0			21.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 5.00

Units: uL

GAS CORP mix_00287

Amount Added: 5.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D

Injection Date: 20-Jun-2018 15:24:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 4

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

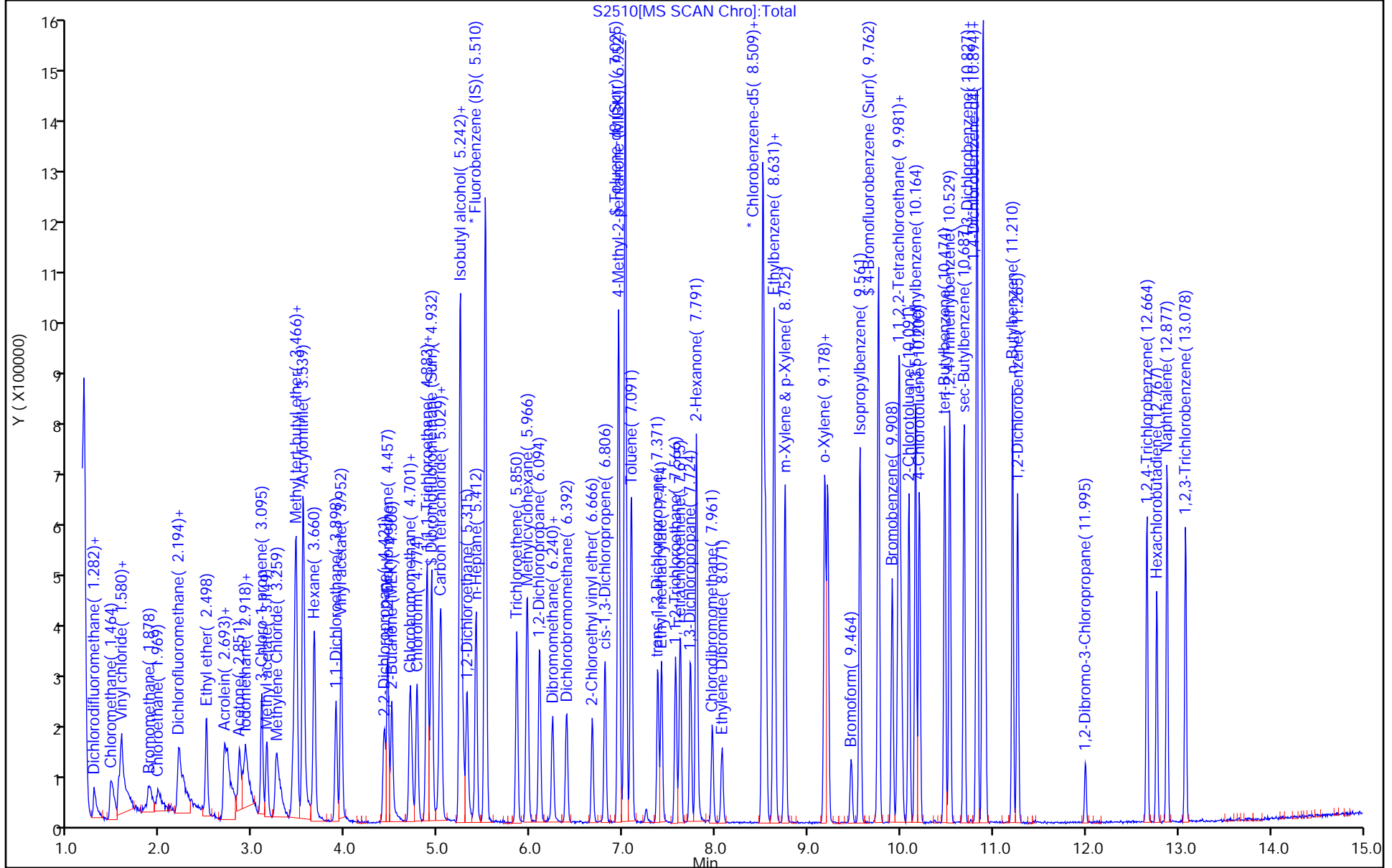
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

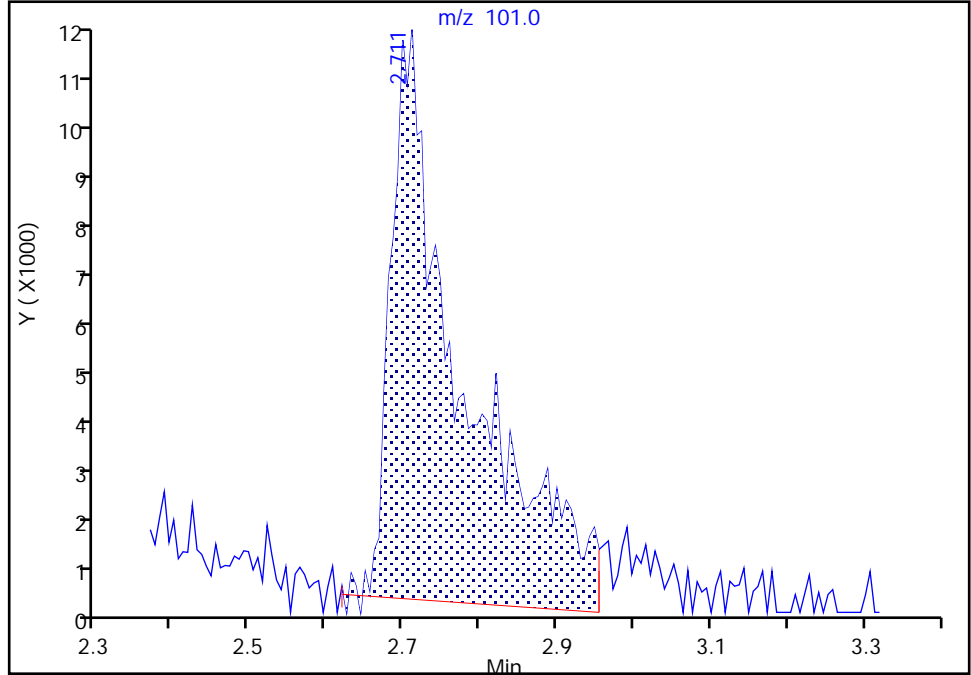
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

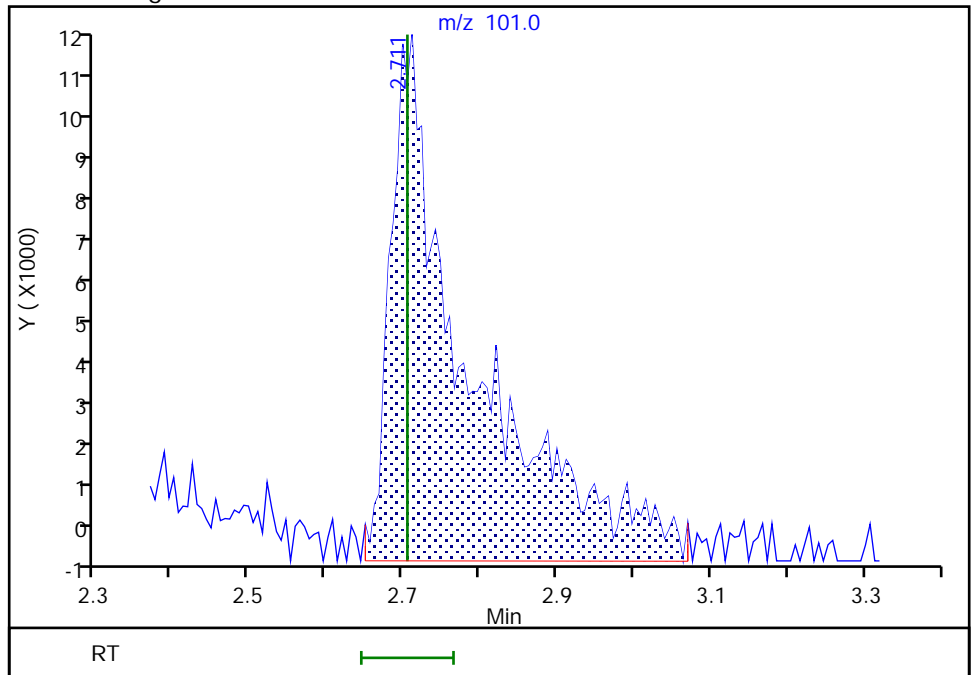
RT: 2.71
Area: 74021
Amount: 9.501471
Amount Units: ug/L

Processing Integration Results



RT: 2.71
Area: 83709
Amount: 10.683331
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:22:39
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

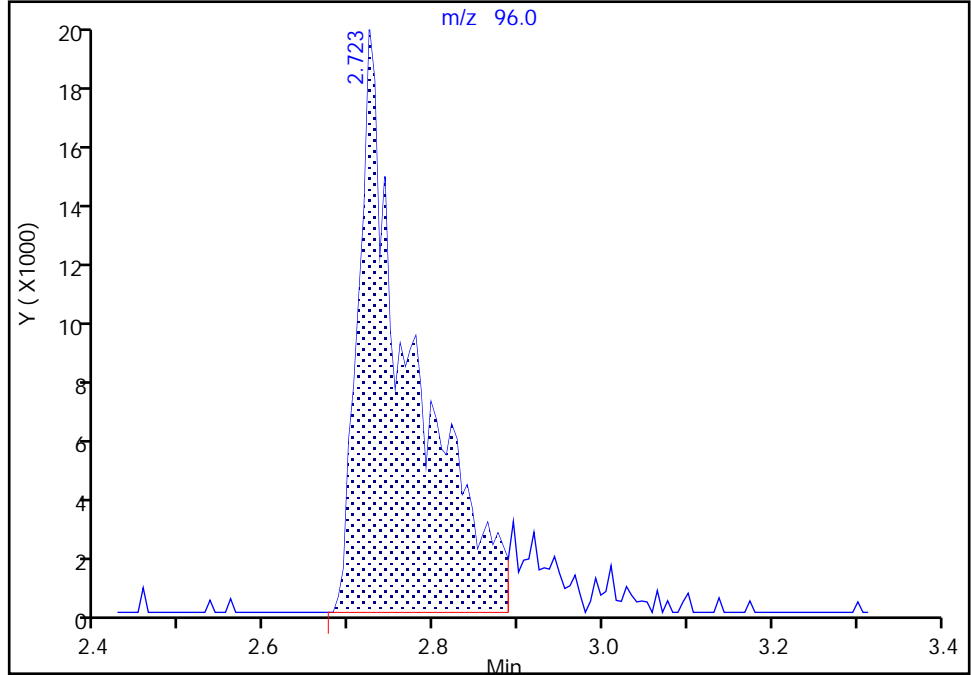
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

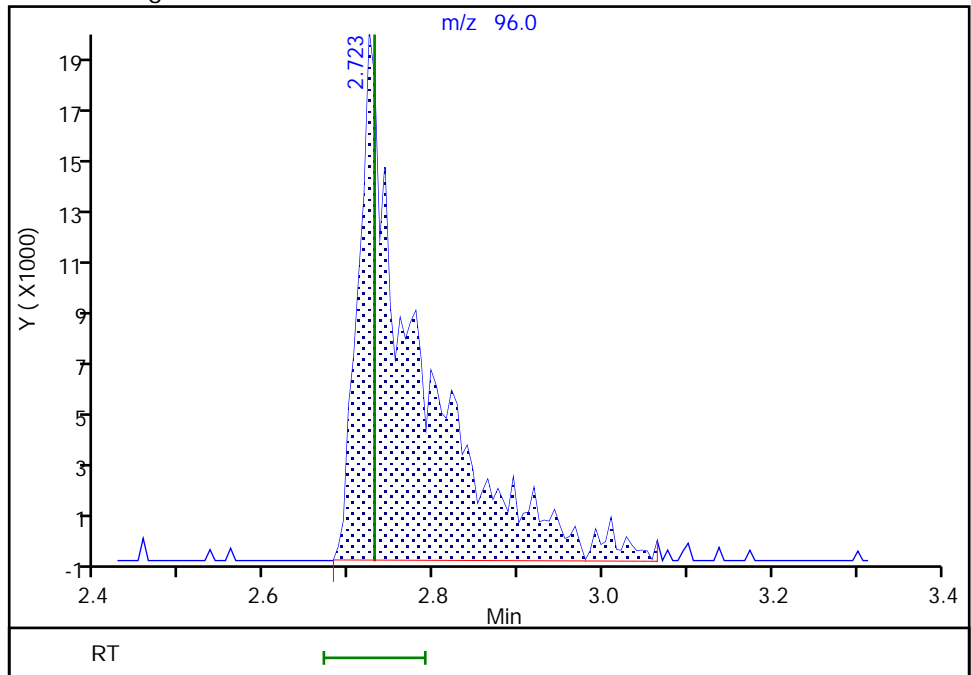
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Area: 85549
Amount: 10.295861
Amount Units: ug/L

Processing Integration Results



RT: 2.72
Area: 96639
Amount: 10.709001
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 23:19:06
Audit Action: Manually Integrated

TestAmerica Buffalo

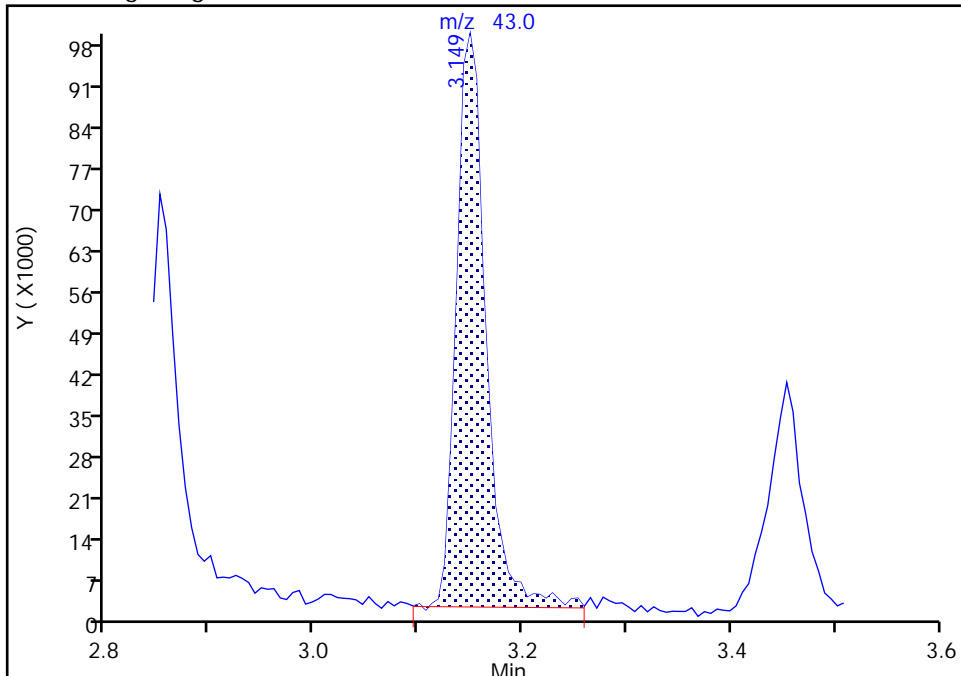
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

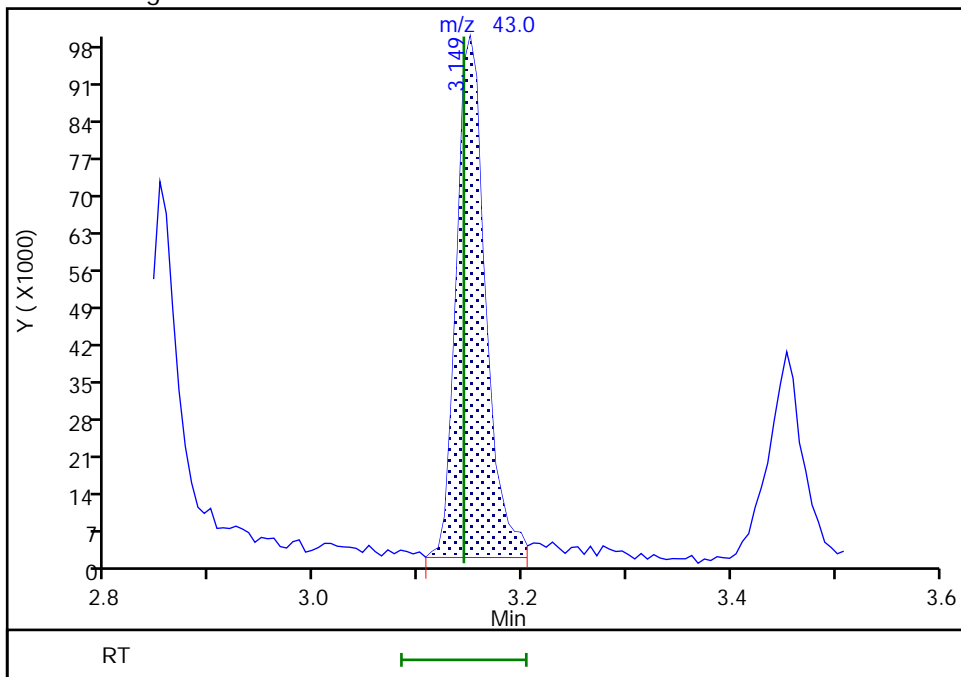
Processing Integration Results

RT: 3.15
Area: 192902
Amount: 18.670750
Amount Units: ug/L



Manual Integration Results

RT: 3.15
Area: 190812
Amount: 18.491841
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:29:54
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

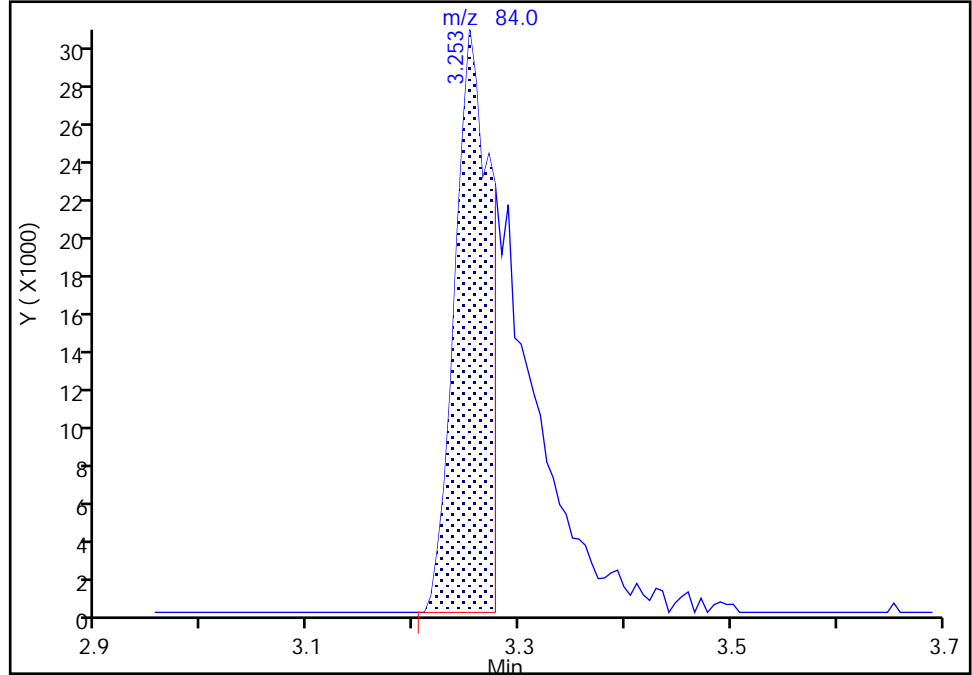
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Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

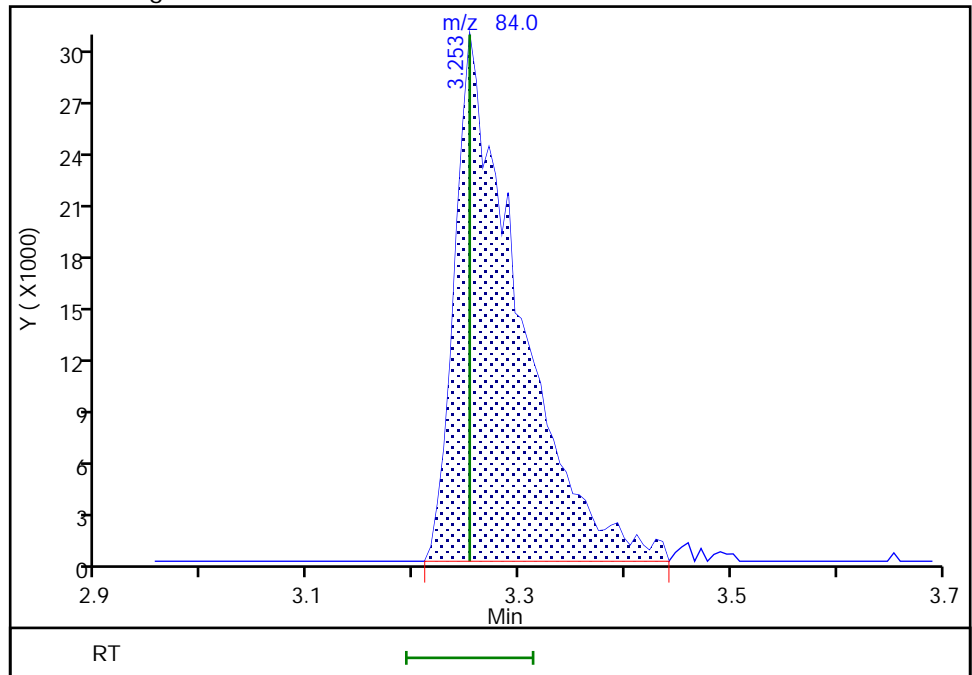
RT: 3.25
Area: 70355
Amount: 3.535941
Amount Units: ug/L

Processing Integration Results



RT: 3.25
Area: 127431
Amount: 9.654141
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:43:27
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

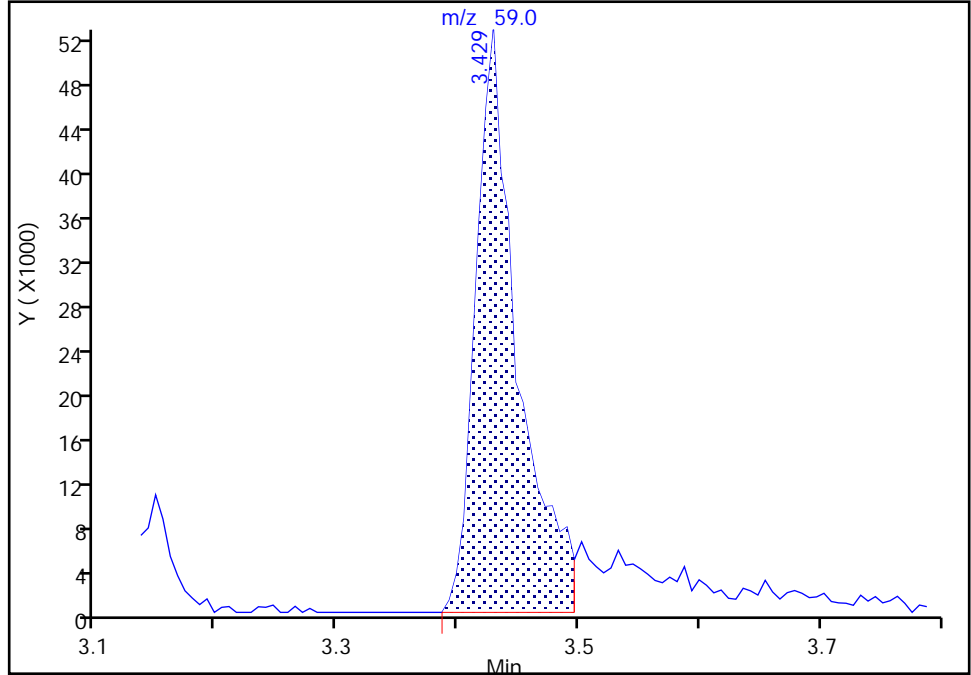
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

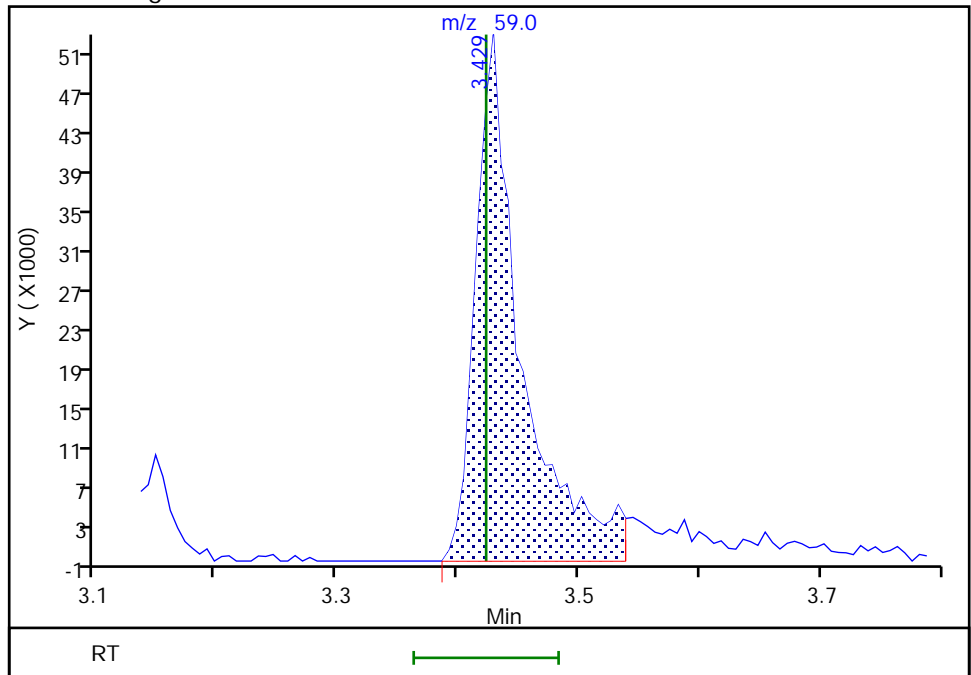
RT: 3.43
Area: 125953
Amount: 105.2771
Amount Units: ug/L

Processing Integration Results



RT: 3.43
Area: 137981
Amount: 103.6085
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:50:37
Audit Action: Manually Integrated

TestAmerica Buffalo

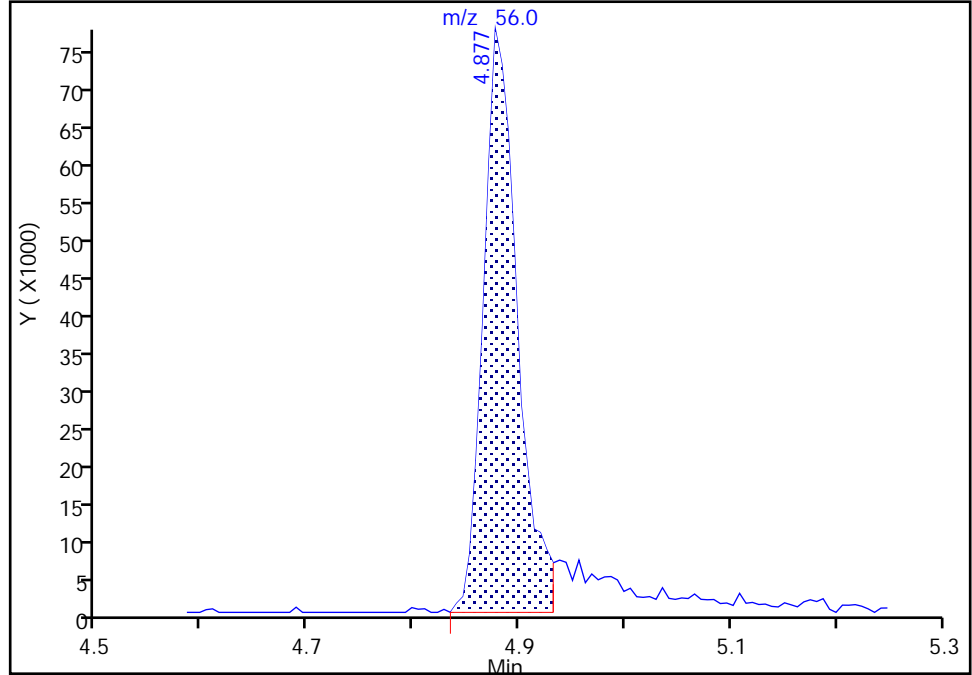
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

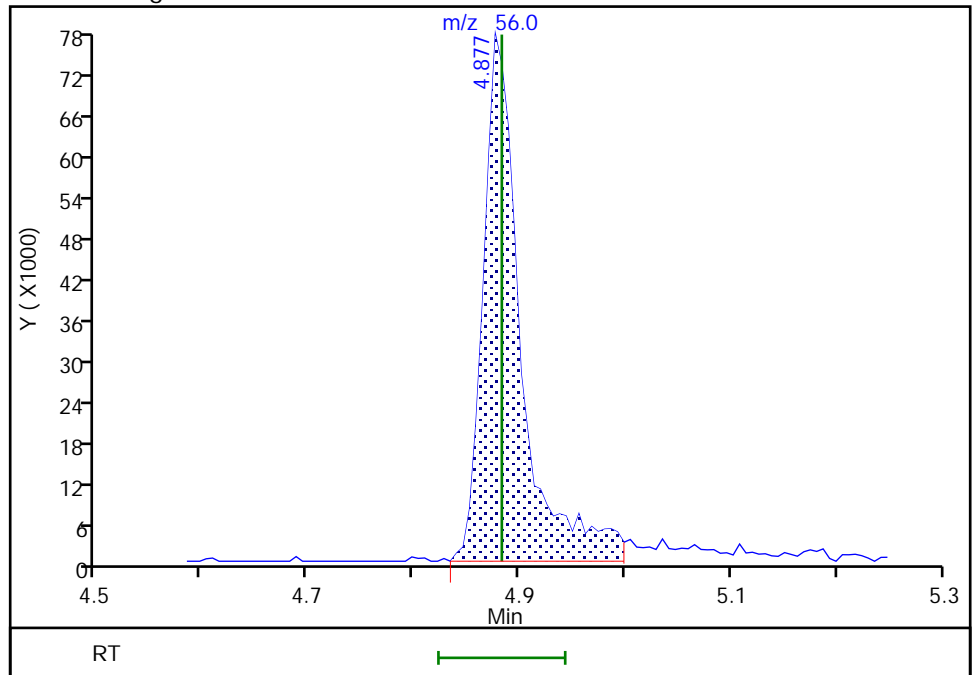
RT: 4.88
Area: 172484
Amount: 9.184054
Amount Units: ug/L

Processing Integration Results



RT: 4.88
Area: 192312
Amount: 10.106438
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:30:39
Audit Action: Manually Integrated

TestAmerica Buffalo

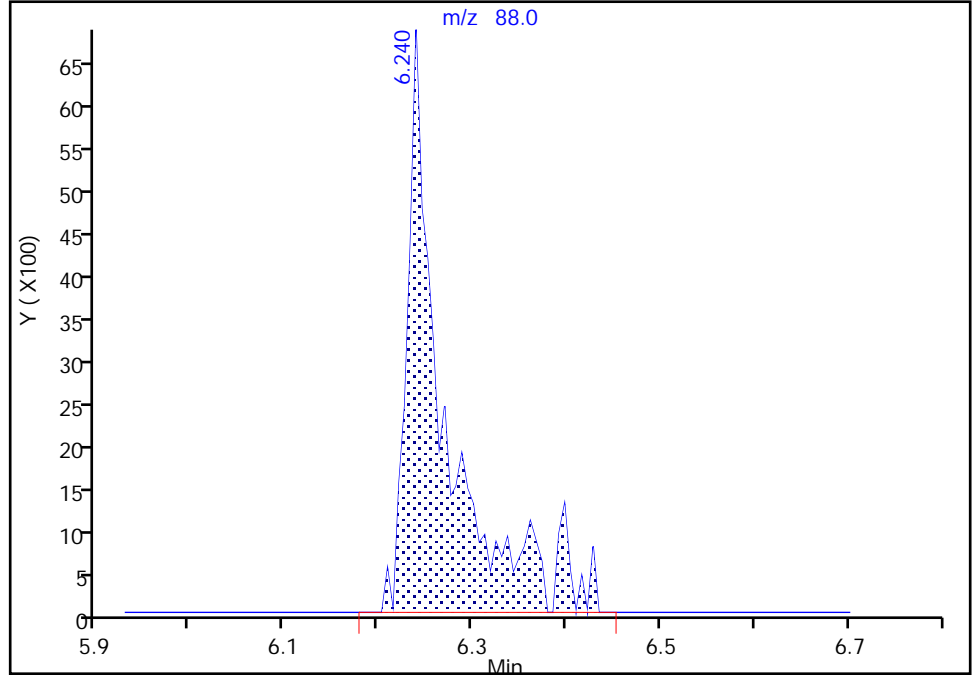
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

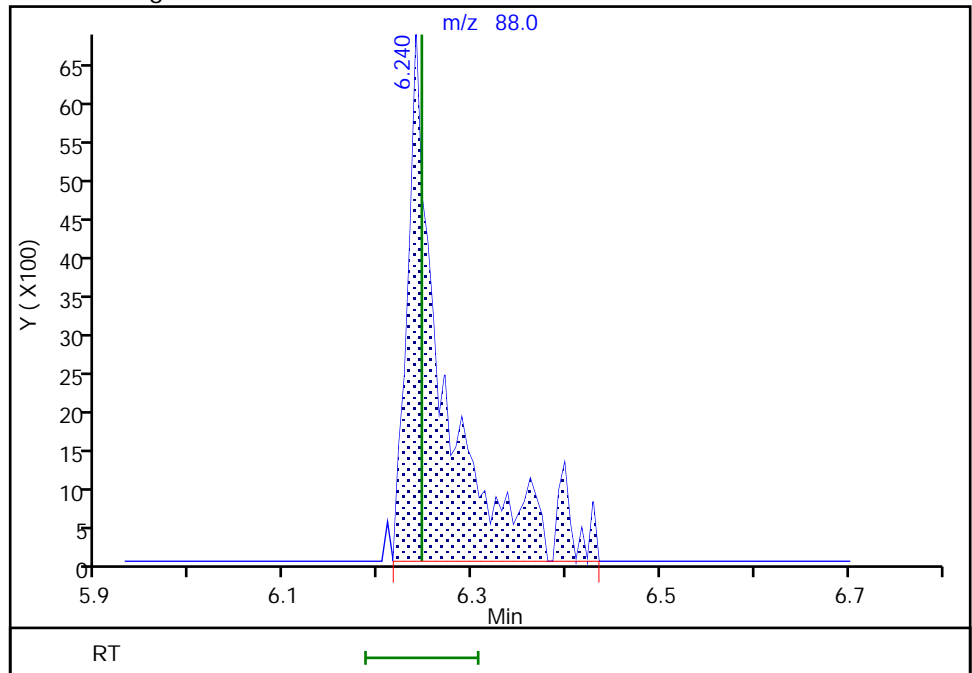
RT: 6.24
Area: 18966
Amount: 219.4414
Amount Units: ug/L

Processing Integration Results



RT: 6.24
Area: 18780
Amount: 217.5811
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:31:28
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 20-Jun-2018 15:48:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0072482-010
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:00 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:39:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	197139	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	406209	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	56	365129	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	58	233776	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	156084	25.0	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	970258	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	303043	25.0	24.9	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	97	248186	25.0	26.1	
12 Chloromethane	50	1.464	1.464	0.000	97	380591	25.0	25.2	
13 Vinyl chloride	62	1.549	1.549	0.000	63	333324	25.0	24.9	
151 Butadiene	54	1.574	1.574	0.000	56	325163	25.0	23.2	
14 Bromomethane	94	1.872	1.872	0.000	89	172433	25.0	24.0	
15 Chloroethane	64	1.969	1.969	0.000	97	204270	25.0	25.2	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	95	412155	25.0	23.2	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	76	332653	25.0	26.2	
18 Ethyl ether	59	2.492	2.492	0.000	92	290892	25.0	25.7	
20 Acrolein	56	2.687	2.687	0.000	95	284078	125.0	131.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	68	184140	25.0	23.9	
22 1,1-Dichloroethene	96	2.730	2.730	0.000	90	229631	25.0	26.4	
23 Acetone	43	2.851	2.851	0.000	100	412424	125.0	108.7	
25 Iodomethane	142	2.894	2.894	0.000	98	347195	25.0	27.3	
26 Carbon disulfide	76	2.918	2.918	0.000	98	700429	25.0	25.2	
28 3-Chloro-1-propene	41	3.089	3.089	0.000	88	413143	25.0	24.5	
27 Methyl acetate	43	3.143	3.143	0.000	95	441430	50.0	44.3	
30 Methylene Chloride	84	3.253	3.253	0.000	97	284846	25.0	24.7	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	95	307003	250.0	238.9	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	92	832097	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	95	255195	25.0	25.6	
33 Acrylonitrile	53	3.539	3.539	0.000	98	1323936	250.0	250.1	
35 Hexane	57	3.660	3.660	0.000	84	446557	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	96	523385	25.0	24.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	1230989	50.0	50.9	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	297960	25.0	25.6	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	298747	25.0	26.1	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	717854	125.0	123.3	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	146527	25.0	26.8	
49 Tetrahydrofuran	42	4.713	4.713	0.000	93	202767	50.0	50.7	
50 Chloroform	83	4.774	4.774	0.000	93	443774	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	94	345970	25.0	25.3	
52 Cyclohexane	56	4.883	4.883	0.000	89	482758	25.0	26.3	
55 Carbon tetrachloride	117	5.011	5.011	0.000	89	300091	25.0	26.2	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	93	338452	25.0	24.3	
57 Benzene	78	5.236	5.236	0.000	96	1062500	25.0	25.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	94	329152	625.0	608.4	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	415950	25.0	24.6	
59 n-Heptane	43	5.412	5.412	0.000	91	415475	25.0	24.3	
62 Trichloroethene	95	5.850	5.850	0.000	97	271489	25.0	25.2	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	424498	25.0	25.8	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	95	311720	25.0	24.7	
67 Dibromomethane	93	6.234	6.234	0.000	94	168616	25.0	25.6	
66 1,4-Dioxane	88	6.246	6.246	0.000	29	46908	500.0	521.5	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	344167	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	88	225325	25.0	26.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	423733	25.0	26.6	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1601823	125.0	123.5	
74 Toluene	92	7.085	7.085	0.000	94	659595	25.0	24.4	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	93	391909	25.0	26.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	383401	25.0	26.3	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	202209	25.0	24.9	
81 Tetrachloroethene	166	7.615	7.615	0.000	85	279490	25.0	24.5	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	94	425777	25.0	24.8	
80 2-Hexanone	43	7.791	7.791	0.000	90	1170919	125.0	122.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	247163	25.0	26.7	
84 Ethylene Dibromide	107	8.071	8.071	0.000	97	252512	25.0	24.6	
87 Chlorobenzene	112	8.539	8.539	0.000	93	730835	25.0	24.7	
88 Ethylbenzene	91	8.631	8.631	0.000	99	1214363	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	246580	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	469623	25.0	23.7	
91 o-Xylene	106	9.178	9.178	0.000	97	471745	25.0	25.1	
92 Styrene	104	9.209	9.209	0.000	92	821536	25.0	25.5	
95 Bromoform	173	9.464	9.464	0.000	95	156408	25.0	26.5	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	1180615	25.0	25.6	
101 Bromobenzene	156	9.908	9.908	0.000	97	304349	25.0	26.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	72	315135	25.0	25.2	
99 N-Propylbenzene	91	9.987	9.987	0.000	98	1379737	25.0	25.9	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	70	107926	25.0	26.2	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	114077	25.0	25.6	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	288633	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	83	1006297	25.0	25.2	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	309390	25.0	26.3	
106 tert-Butylbenzene	134	10.474	10.474	0.000	93	228134	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1069434	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1239742	25.0	25.9	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1092636	25.0	26.5	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	573712	25.0	25.4	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	581426	25.0	25.2	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	994221	25.0	26.8	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	93	559407	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	76	66108	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	411331	25.0	26.0	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	195098	25.0	25.8	
121 Naphthalene	128	12.877	12.877	0.000	97	1171879	25.0	27.1	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	393148	25.0	26.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D

Injection Date: 20-Jun-2018 15:48:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: ICIS 5

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

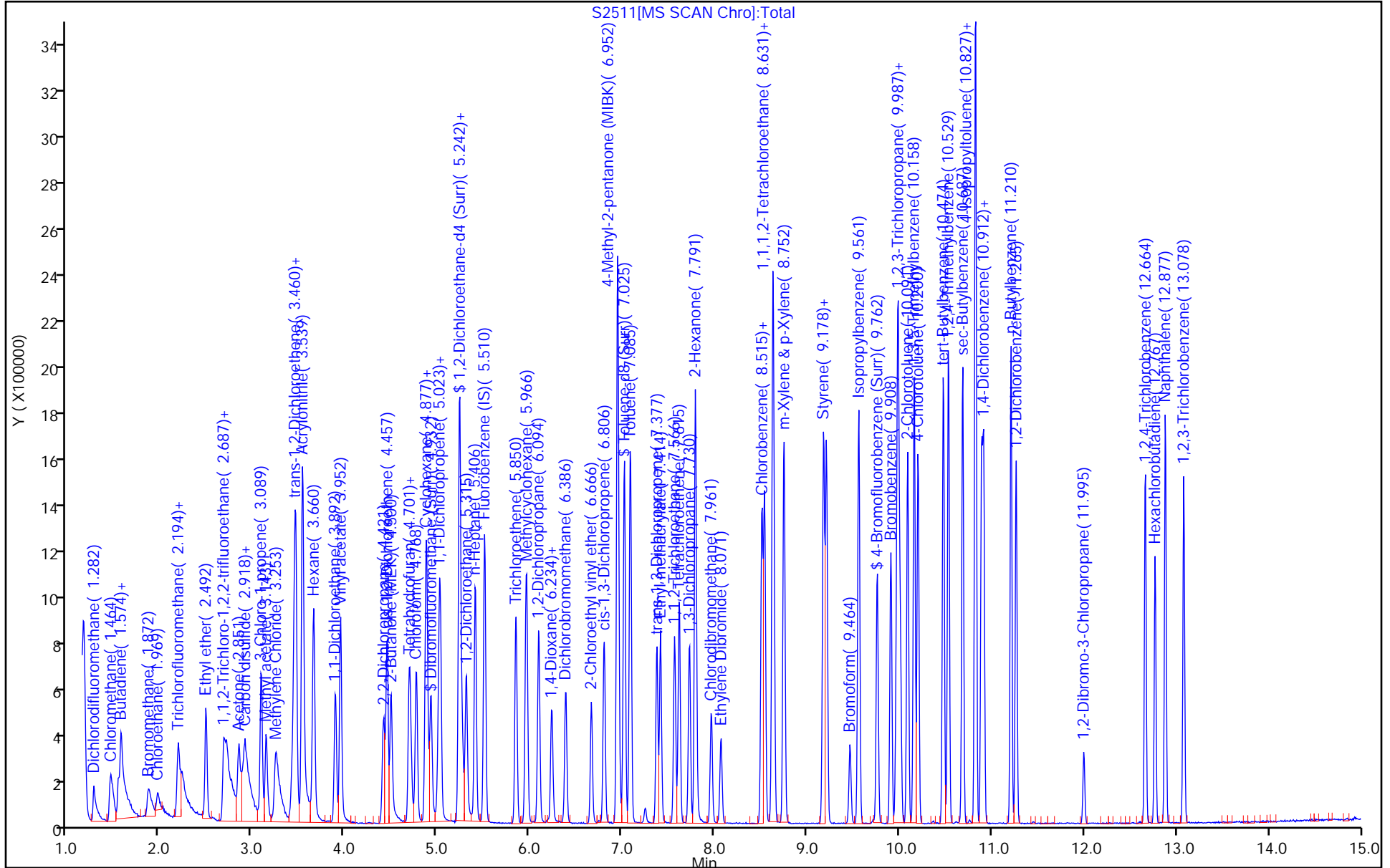
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

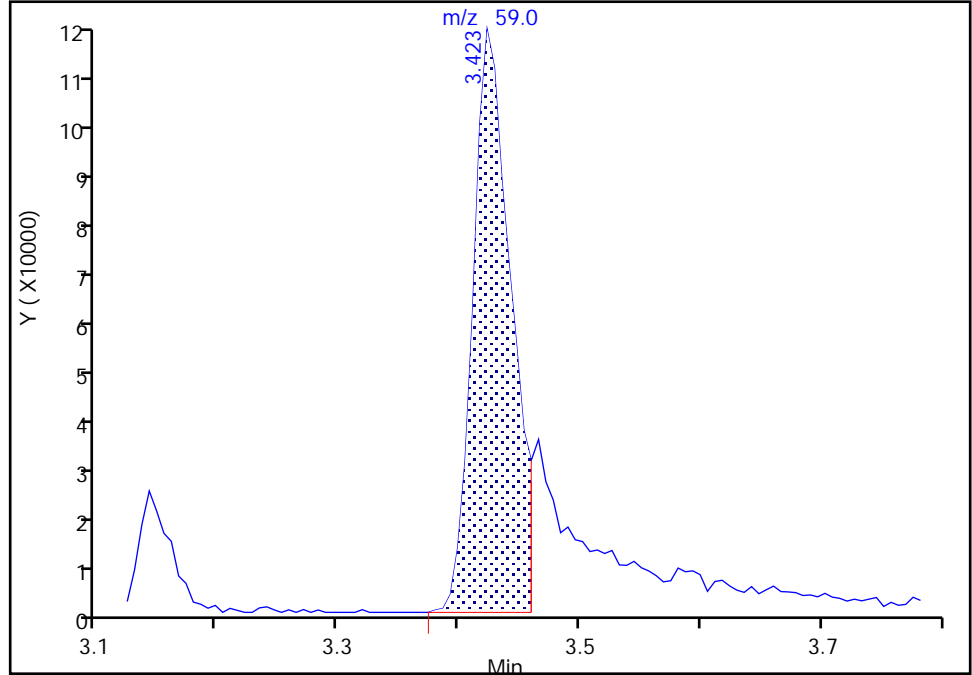
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Injection Date: 20-Jun-2018 15:48:30 Instrument ID: HP5973S
Lims ID: ICIS 5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

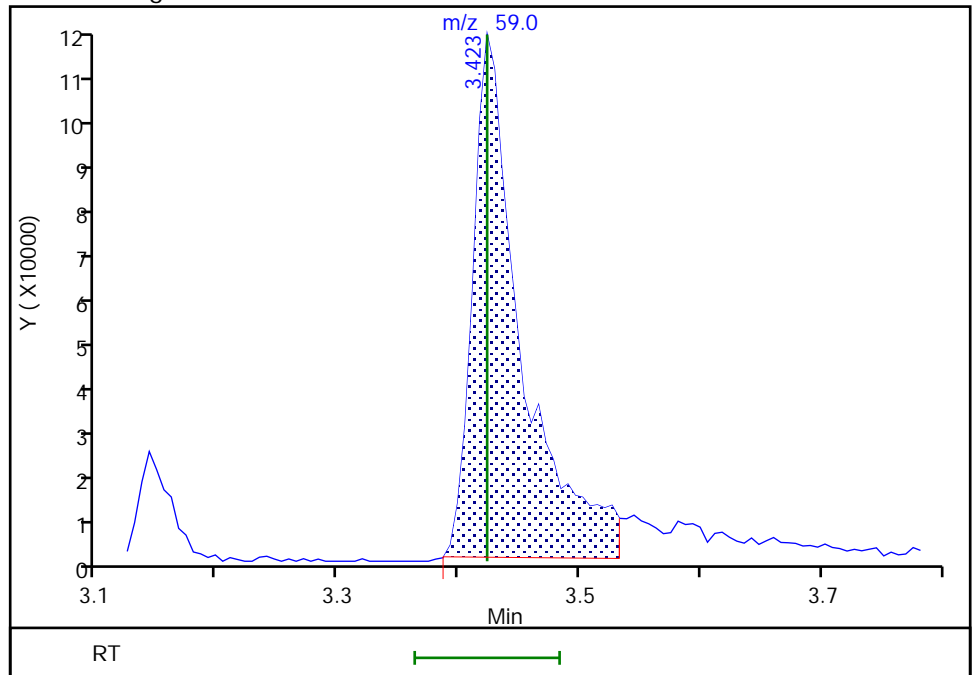
RT: 3.42
Area: 243993
Amount: 233.1605
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 307003
Amount: 238.8921
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:49:52
Audit Action: Manually Integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 20-Jun-2018 16:11:30 ALS Bottle#: 9 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0072482-011
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:07 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 20:20:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	192452	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394691	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	42	371185	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	56	244934	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	158160	25.0	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	89	970429	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	302035	25.0	25.6	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	99	556127	50.0	60.0	
12 Chloromethane	50	1.458	1.464	-0.006	99	752596	50.0	51.1	
13 Vinyl chloride	62	1.543	1.549	-0.006	93	722212	50.0	55.2	
151 Butadiene	54	1.574	1.574	0.000	86	714525	50.0	52.3	
14 Bromomethane	94	1.878	1.872	0.006	88	360223	50.0	51.3	
15 Chloroethane	64	1.969	1.969	0.000	99	423584	50.0	53.5	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	81	736903	50.0	59.4	M
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	843653	50.0	48.6	
18 Ethyl ether	59	2.492	2.492	0.000	92	596459	50.0	54.1	
20 Acrolein	56	2.681	2.687	-0.006	96	575962	250.0	272.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	65	364156	50.0	48.0	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	95	465301	50.0	54.7	
23 Acetone	43	2.845	2.851	-0.006	97	904483	250.0	244.3	
25 Iodomethane	142	2.894	2.894	0.000	97	730136	50.0	58.7	
26 Carbon disulfide	76	2.918	2.918	0.000	98	1472959	50.0	54.4	
28 3-Chloro-1-propene	41	3.088	3.089	0.000	88	844115	50.0	51.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	983740	100.0	101.2	
30 Methylene Chloride	84	3.253	3.253	0.000	98	551561	50.0	50.8	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	94	680866	500.0	542.7	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	1670515	50.0	52.4	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	93	508786	50.0	52.3	
33 Acrylonitrile	53	3.539	3.539	0.000	98	2745107	500.0	531.3	
35 Hexane	57	3.660	3.660	0.000	83	940801	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.891	3.892	-0.001	97	1069251	50.0	52.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	2352331	100.0	99.5	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	92	592229	50.0	52.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	596033	50.0	53.3	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	1439504	250.0	253.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	97	285479	50.0	53.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	90	387841	100.0	99.3	
50 Chloroform	83	4.768	4.774	-0.006	94	907363	50.0	50.7	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	95	716429	50.0	53.8	
52 Cyclohexane	56	4.883	4.883	0.000	91	997545	50.0	55.6	
55 Carbon tetrachloride	117	5.017	5.011	0.006	92	637175	50.0	57.1	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	714312	50.0	52.6	
57 Benzene	78	5.236	5.236	0.000	97	2128022	50.0	52.1	
53 Isobutyl alcohol	43	5.266	5.266	0.000	97	721955	1250.0	1367.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	79	838833	50.0	50.9	
59 n-Heptane	43	5.406	5.412	-0.006	91	829266	50.0	49.7	
62 Trichloroethene	95	5.850	5.850	0.000	97	545392	50.0	51.8	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	895898	50.0	55.9	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	642638	50.0	52.2	
67 Dibromomethane	93	6.234	6.234	0.000	91	338999	50.0	52.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	33	91625	1000.0	1034.9	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	708669	50.0	57.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	451891	50.0	55.0	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	863532	50.0	55.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	3068632	250.0	243.5	
74 Toluene	92	7.085	7.085	0.000	95	1345091	50.0	51.3	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	95	800744	50.0	55.4	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	758693	50.0	53.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	92	408565	50.0	51.7	
81 Tetrachloroethene	166	7.615	7.615	0.000	87	580239	50.0	52.4	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	866770	50.0	52.0	
80 2-Hexanone	43	7.791	7.791	0.000	90	2254226	250.0	243.0	
83 Chlorodibromomethane	129	7.967	7.961	0.006	90	515833	50.0	57.4	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	508600	50.0	51.1	
87 Chlorobenzene	112	8.539	8.539	0.000	92	1474031	50.0	51.3	
88 Ethylbenzene	91	8.631	8.631	0.000	98	2446781	50.0	51.7	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.643	-0.006	48	510400	50.0	54.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	969691	50.0	50.4	
91 o-Xylene	106	9.178	9.178	0.000	97	960148	50.0	52.6	
92 Styrene	104	9.209	9.209	0.000	94	1666910	50.0	53.2	
95 Bromoform	173	9.464	9.464	0.000	97	339740	50.0	59.2	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	2412885	50.0	51.6	
101 Bromobenzene	156	9.908	9.908	0.000	95	604551	50.0	51.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	75	630975	50.0	49.6	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	2782295	50.0	51.3	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	69	221749	50.0	53.0	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	231344	50.0	50.4	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	577783	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	85	2040375	50.0	50.3	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	620467	50.0	51.9	
106 tert-Butylbenzene	134	10.480	10.474	0.006	93	469785	50.0	54.3	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	2132089	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	2510799	50.0	51.6	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	1163942	50.0	50.6	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	2224584	50.0	53.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	1170382	50.0	49.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1968301	50.0	52.1	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	1131910	50.0	50.0	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	82	138297	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	859177	50.0	53.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	404793	50.0	52.6	
121 Naphthalene	128	12.877	12.877	0.000	97	2369399	50.0	53.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	95	796689	50.0	53.6	
S 123 Total BTEX	1				0			258.1	
S 125 1,2-Dichloroethene, Total	1				0			105.6	
S 124 Xylenes, Total	1				0			103.0	
S 126 1,3-Dichloropropene, Total	1				0			110.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 25.00

Units: uL

GAS CORP mix_00287

Amount Added: 25.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D

Injection Date: 20-Jun-2018 16:11:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 6

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

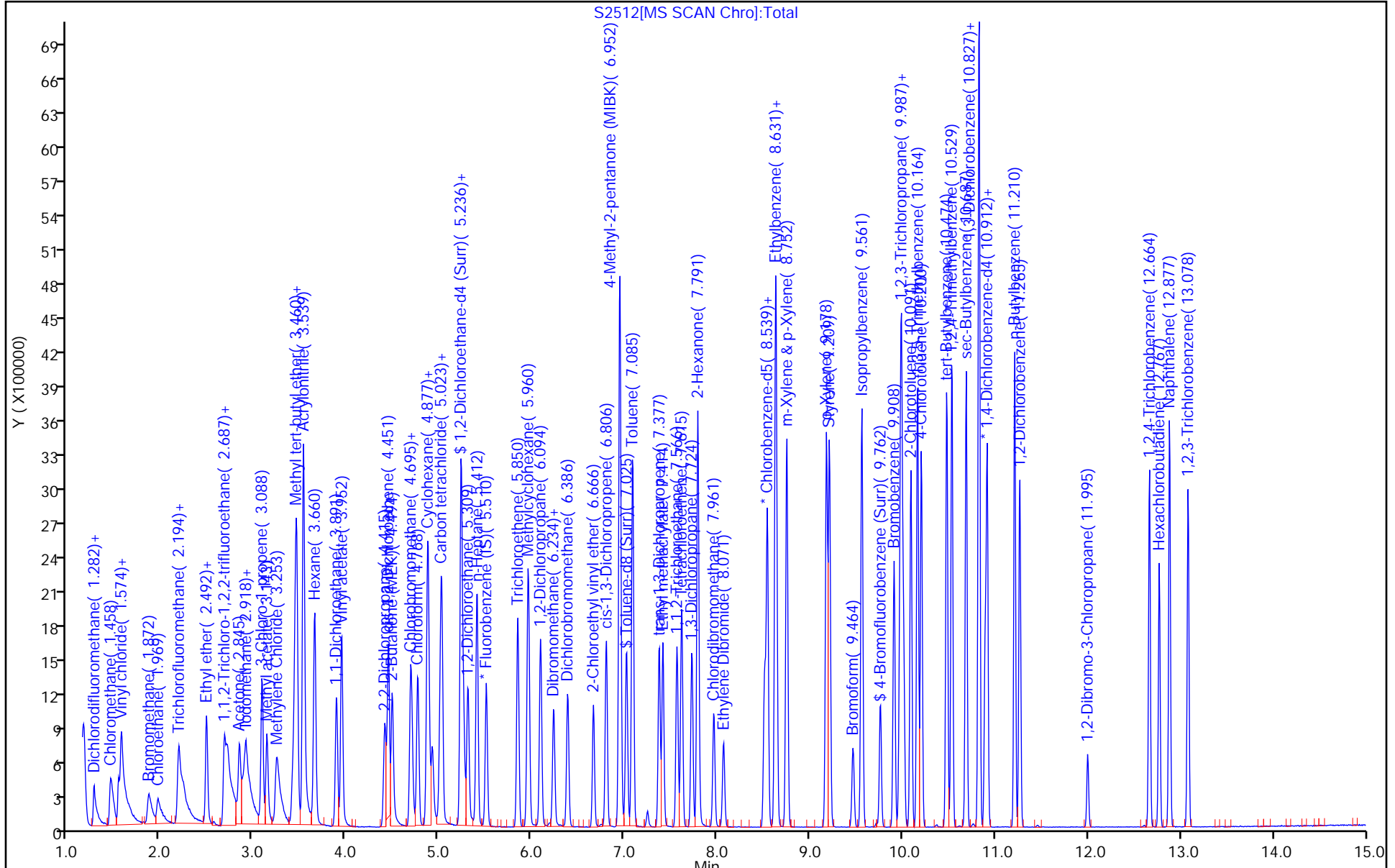
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

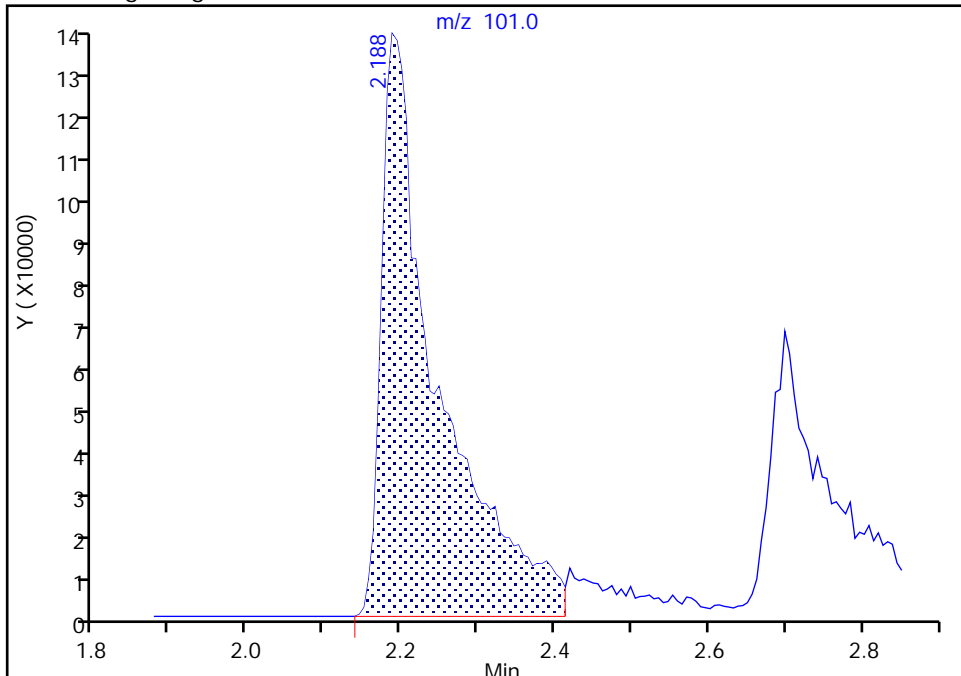
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Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

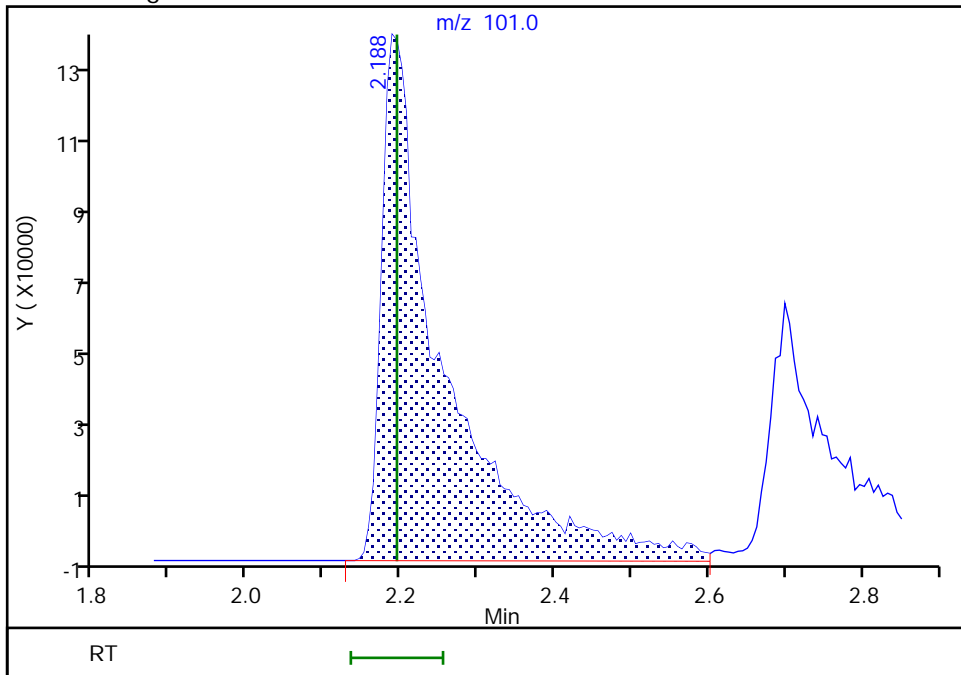
RT: 2.19
Area: 674194
Amount: 50.268036
Amount Units: ug/L

Processing Integration Results



RT: 2.19
Area: 736903
Amount: 59.400714
Amount Units: ug/L

Manual Integration Results



Reviewer: nowakk, 20-Jun-2018 23:01:35
Audit Action: Manually Integrated

Audit Reason: Baseline
Page 256 of 503

TestAmerica Buffalo

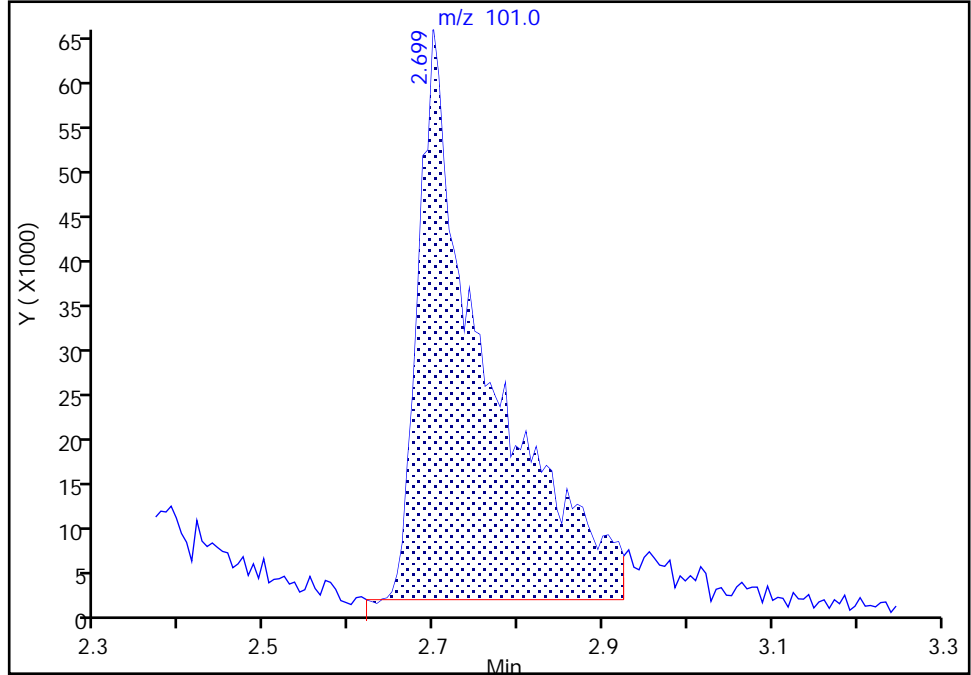
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Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

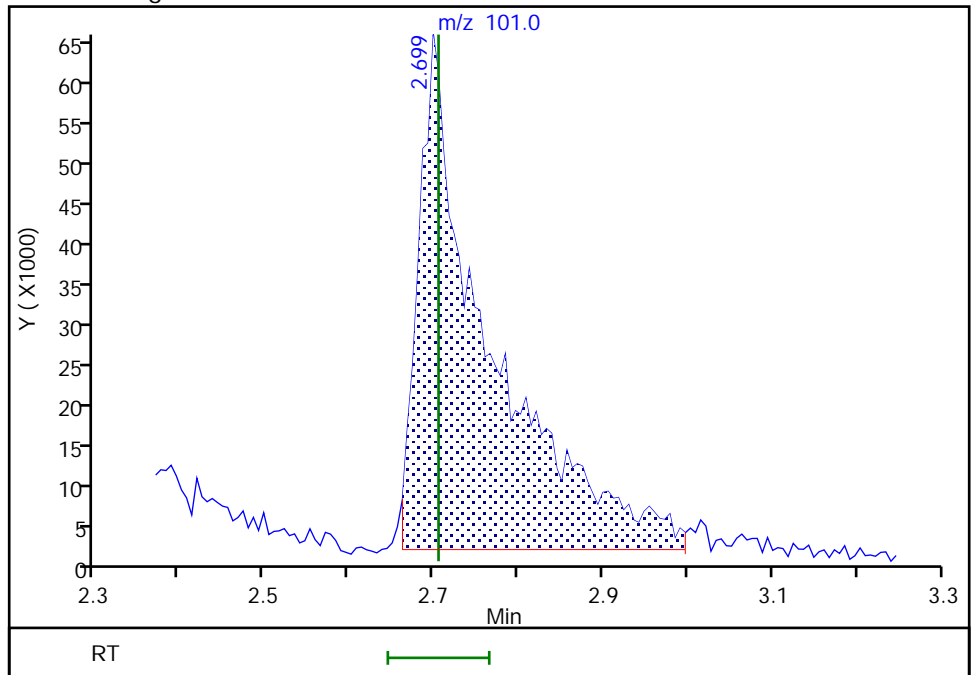
RT: 2.70
Area: 349411
Amount: 45.201404
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 364156
Amount: 47.992777
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:33:16
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 20-Jun-2018 16:34:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0072482-012
 Operator ID: LH/ZV Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:26:11 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: nowakk

Date: 20-Jun-2018 19:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	203954	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	404509	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	17	376772	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	247091	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	152101	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	64	969583	25.0	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	306600	25.0	25.3	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	1042243	100.0	106.1	M
12 Chloromethane	50	1.464	1.464	0.000	99	1481396	100.0	94.9	
13 Vinyl chloride	62	1.543	1.549	-0.006	82	1374584	100.0	99.1	
151 Butadiene	54	1.574	1.574	0.000	82	1368549	100.0	94.6	
14 Bromomethane	94	1.878	1.872	0.006	91	712144	100.0	95.8	
15 Chloroethane	64	1.969	1.969	0.000	99	830061	100.0	98.8	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	1716432	100.0	93.3	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	85	1437497	100.0	109.3	
18 Ethyl ether	59	2.492	2.492	0.000	92	1181934	100.0	101.1	
20 Acrolein	56	2.687	2.687	0.000	98	1162249	500.0	518.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	59	822020	100.0	101.8	M
22 1,1-Dichloroethene	96	2.724	2.730	-0.006	94	990419	100.0	109.9	
23 Acetone	43	2.845	2.851	-0.006	98	1835772	500.0	467.8	
25 Iodomethane	142	2.894	2.894	0.000	98	1547832	100.0	117.5	
26 Carbon disulfide	76	2.918	2.918	0.000	98	3032330	100.0	105.6	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	89	1733446	100.0	99.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	1983551	200.0	192.5	
30 Methylene Chloride	84	3.253	3.253	0.000	96	1126336	100.0	99.6	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	1598960	1000.0	1202.6	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	3395940	100.0	100.6	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	92	1050113	100.0	101.9	
33 Acrylonitrile	53	3.539	3.539	0.000	97	5416558	1000.0	989.2	
35 Hexane	57	3.660	3.660	0.000	87	1983165	100.0	104.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	2191279	100.0	100.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	4622714	200.0	184.6	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	1257016	100.0	104.4	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	1225447	100.0	103.4	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	95	3041661	500.0	504.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	98	585187	100.0	103.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	87	822605	200.0	198.7	
50 Chloroform	83	4.774	4.774	0.000	93	1854730	100.0	97.9	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	1501541	100.0	106.3	
52 Cyclohexane	56	4.877	4.883	-0.006	91	2165602	100.0	114.0	
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	1320508	100.0	111.6	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	1495256	100.0	103.9	
57 Benzene	78	5.236	5.236	0.000	98	4301395	100.0	99.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	95	1557611	2500.0	2783.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	83	1702374	100.0	97.4	
59 n-Heptane	43	5.406	5.412	-0.006	91	1743611	100.0	98.6	
62 Trichloroethene	95	5.850	5.850	0.000	97	1155378	100.0	103.5	
64 Methylcyclohexane	83	5.960	5.960	0.000	93	1857834	100.0	109.3	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	1287446	100.0	98.6	
67 Dibromomethane	93	6.234	6.234	0.000	90	708426	100.0	104.0	
66 1,4-Dioxane	88	6.240	6.246	-0.006	35	176888	2000.0	1937.7	
68 Dichlorobromomethane	83	6.386	6.386	0.000	99	1480734	100.0	112.8	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	926261	100.0	106.3	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	91	1778596	100.0	107.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	91	5759555	500.0	446.0	
74 Toluene	92	7.092	7.085	0.007	97	2760907	100.0	102.7	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	94	1691433	100.0	114.2	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	1589664	100.0	109.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	844173	100.0	104.2	
81 Tetrachloroethene	166	7.621	7.615	0.006	85	1184748	100.0	104.3	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	93	1776603	100.0	104.0	
80 2-Hexanone	43	7.791	7.791	0.000	87	4341846	500.0	456.8	
83 Chlorodibromomethane	129	7.968	7.961	0.007	91	1120056	100.0	121.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	1055354	100.0	103.4	
87 Chlorobenzene	112	8.539	8.539	0.000	92	3001103	100.0	101.8	
88 Ethylbenzene	91	8.631	8.631	0.000	98	4820637	100.0	99.5	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	1084784	100.0	113.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	2043355	100.0	103.6	
91 o-Xylene	106	9.178	9.178	0.000	97	1982170	100.0	105.9	
92 Styrene	104	9.209	9.209	0.000	94	3414832	100.0	106.3	
95 Bromoform	173	9.464	9.464	0.000	97	760638	100.0	129.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	4783571	100.0	100.7	
101 Bromobenzene	156	9.908	9.908	0.000	96	1270447	100.0	105.7	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	80	1304499	100.0	101.1	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	5345840	100.0	97.1	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	441615	100.0	103.9	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	79	502274	100.0	107.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	1194322	100.0	100.8	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	86	4068375	100.0	98.7	
105 4-Chlorotoluene	126	10.206	10.200	0.006	95	1278707	100.0	105.3	
106 tert-Butylbenzene	134	10.480	10.474	0.006	92	961000	100.0	109.4	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	4149841	100.0	98.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	95	4943148	100.0	100.0	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	4286221	100.0	100.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	2337298	100.0	100.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	2382476	100.0	100.1	
115 n-Butylbenzene	91	11.210	11.210	0.000	95	3893665	100.0	101.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	2277520	100.0	99.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	83	279459	100.0	111.6	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	1741646	100.0	106.5	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	96	853596	100.0	109.2	
121 Naphthalene	128	12.877	12.877	0.000	98	4593666	100.0	102.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	1662277	100.0	110.3	
S 124 Xylenes, Total	1				0			209.6	
S 126 1,3-Dichloropropene, Total	1				0			222.0	
S 123 Total BTEX	1				0			511.1	
S 125 1,2-Dichloroethene, Total	1				0			205.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128

Amount Added: 50.00

Units: uL

GAS CORP mix_00287

Amount Added: 50.00

Units: uL

S_8260_IS_00293

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00274

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D

Injection Date: 20-Jun-2018 16:34:30

Instrument ID: HP5973S

Operator ID: LH/ZV

Lims ID: IC 7

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

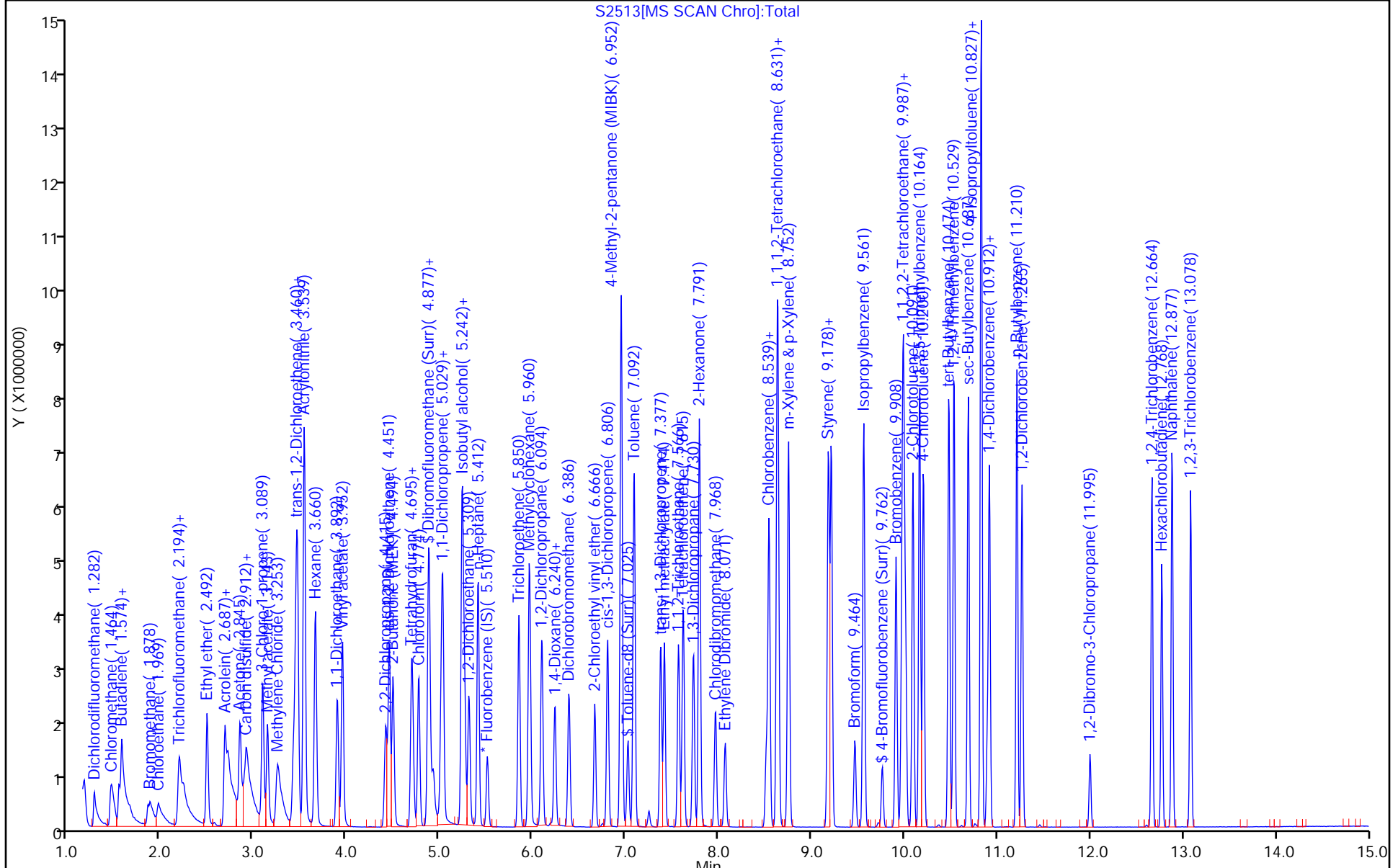
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

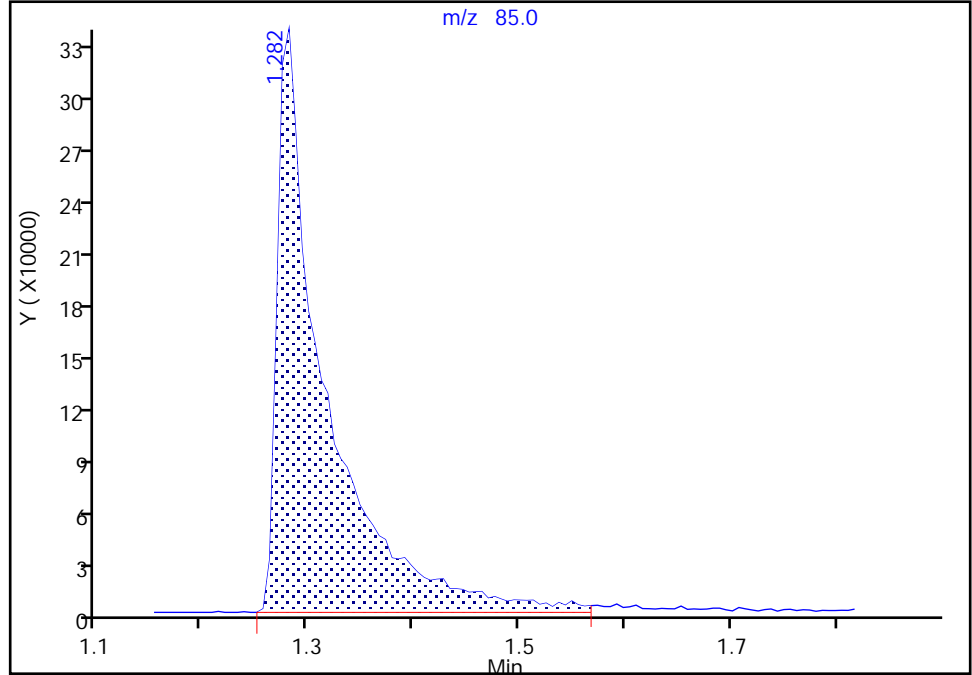
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

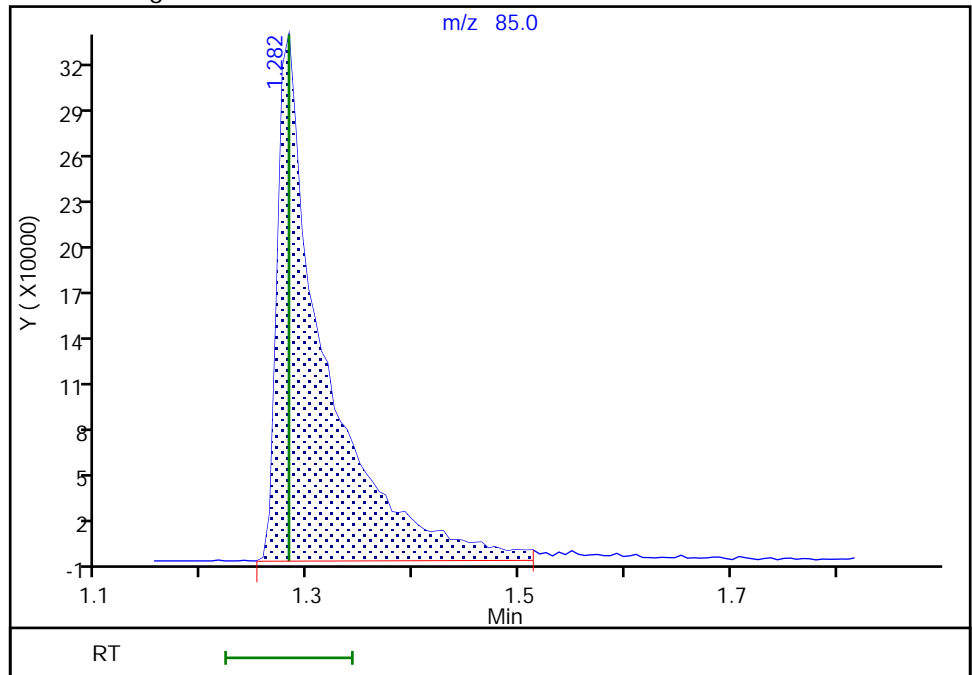
RT: 1.28
Area: 1058190
Amount: 97.253184
Amount Units: ug/L

Processing Integration Results



RT: 1.28
Area: 1042243
Amount: 106.0994
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 13:50:38
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

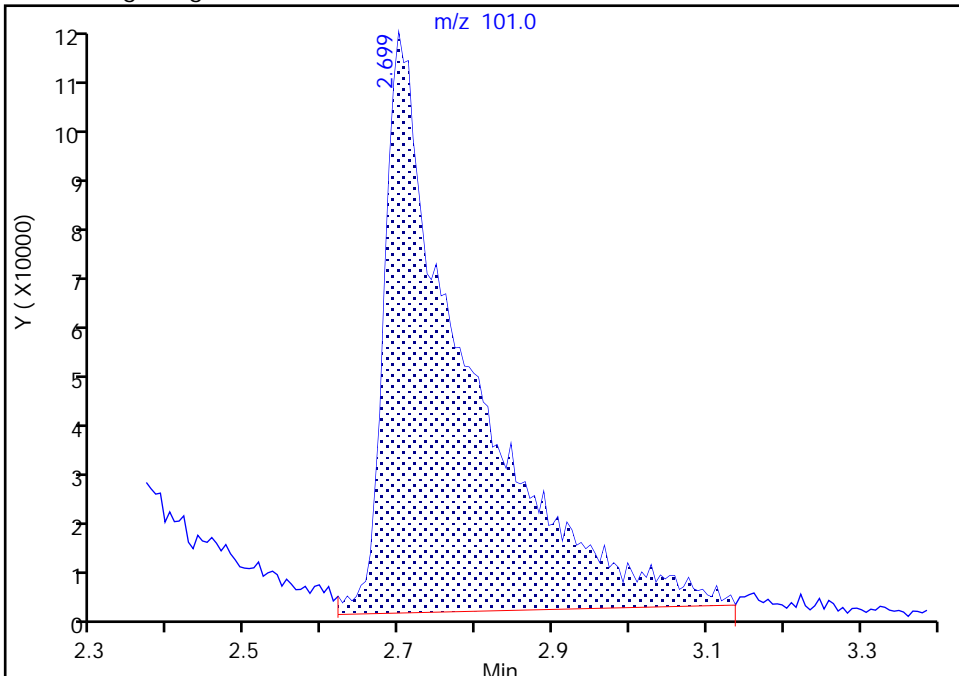
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

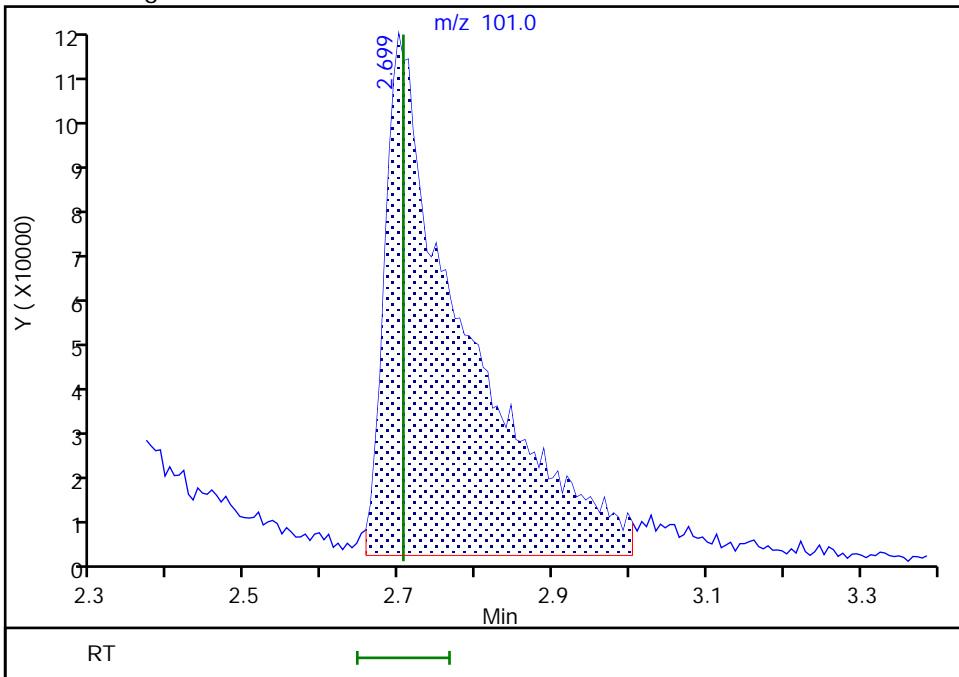
RT: 2.70
Area: 865473
Amount: 103.9221
Amount Units: ug/L

Processing Integration Results



RT: 2.70
Area: 822020
Amount: 101.8067
Amount Units: ug/L

Manual Integration Results



Reviewer: moffata, 21-Jun-2018 12:38:32
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 263 of 503

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421186/2 Calibration Date: 06/22/2018 20:06
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2615.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.204	0.9915	0.1000	20.6	25.0	-17.7	50.0
Chloromethane	Ave	1.913	1.554	0.1000	20.3	25.0	-18.7	20.0
Vinyl chloride	Ave	1.701	1.524	0.1000	22.4	25.0	-10.4	20.0
Butadiene	Ave	1.774	1.518		21.4	25.0	-14.4	20.0
Bromomethane	Ave	0.9114	0.7890	0.1000	21.6	25.0	-13.4	50.0
Chloroethane	Ave	1.029	0.9298	0.1000	22.6	25.0	-9.7	50.0
Trichlorofluoromethane	Ave	1.612	1.657	0.1000	25.7	25.0	2.8	20.0
Dichlorofluoromethane	Ave	2.255	1.921		21.3	25.0	-14.8	20.0
Ethyl ether	Ave	1.434	1.478		25.8	25.0	3.1	20.0
Acrolein	Ave	0.2746	0.2468		112	125	-10.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		0.9595	0.1000	24.5	25.0	-1.9	20.0
1,1-Dichloroethene	Ave	1.104	1.173	0.1000	26.5	25.0	6.2	20.0
Acetone	Ave	0.4810	0.4204	0.1000	109	125	-12.6	50.0
Iodomethane	Ave	1.615	1.884		29.2	25.0	16.6	20.0
Carbon disulfide	Ave	3.520	3.767	0.1000	26.8	25.0	7.0	20.0
Allyl chloride	Ave	2.141	2.112		24.7	25.0	-1.4	20.0
Methyl acetate	Ave	1.263	1.099	0.1000	43.5	50.0	-13.0	50.0
Methylene Chloride	Lin1		1.316	0.1000	22.4	25.0	-10.5	20.0
2-Methyl-2-propanol	Ave	0.1630	0.1575		242	250	-3.4	50.0
Methyl tert-butyl ether	Ave	4.138	4.087	0.1000	24.7	25.0	-1.2	20.0
trans-1,2-Dichloroethene	Ave	1.264	1.377	0.1000	27.2	25.0	9.0	20.0
Acrylonitrile	Ave	0.6712	0.6234		232	250	-7.1	20.0
Hexane	Ave	2.330	2.512		27.0	25.0	7.8	20.0
1,1-Dichloroethane	Ave	2.662	2.747	0.2000	25.8	25.0	3.2	20.0
Vinyl acetate	Ave	3.070	3.213		52.3	50.0	4.7	20.0
2,2-Dichloropropane	Ave	1.475	1.693		28.7	25.0	14.7	20.0
cis-1,2-Dichloroethene	Ave	1.452	1.516	0.1000	26.1	25.0	4.4	20.0
2-Butanone (MEK)	Ave	0.7386	0.6858	0.1000	116	125	-7.1	20.0
Chlorobromomethane	Ave	0.6939	0.7326		26.4	25.0	5.6	20.0
Tetrahydrofuran	Ave	0.5075	0.4559		44.9	50.0	-10.2	20.0
Chloroform	Ave	2.323	2.295	0.2000	24.7	25.0	-1.2	20.0
1,1,1-Trichloroethane	Ave	1.731	1.893	0.1000	27.3	25.0	9.3	20.0
Cyclohexane	Ave	2.329	2.535	0.1000	27.2	25.0	8.9	20.0
Carbon tetrachloride	Ave	1.451	1.688	0.1000	29.1	25.0	16.4	20.0
1,1-Dichloropropene	Ave	1.764	1.853		26.3	25.0	5.0	20.0
Benzene	Ave	5.304	5.511	0.5000	26.0	25.0	3.9	20.0
Isobutyl alcohol	Ave	0.0686	0.0641		584	625	-6.6	50.0
1,2-Dichloroethane	Ave	2.143	2.117	0.1000	24.7	25.0	-1.2	20.0
n-Heptane	Ave	2.167	2.166		25.0	25.0	-0.0	20.0
Trichloroethene	Ave	1.368	1.408	0.2000	25.7	25.0	2.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421186/2 Calibration Date: 06/22/2018 20:06
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2615.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.084	2.422	0.1000	29.1	25.0	16.2	20.0
1,2-Dichloropropane	Ave	1.600	1.614	0.1000	25.2	25.0	0.9	20.0
Dibromomethane	Ave	0.8353	0.8303	0.1000	24.9	25.0	-0.6	20.0
1,4-Dioxane	Lin1		0.0061		554	500	10.8	50.0
Bromodichloromethane	Ave	1.609	1.771	0.2000	27.5	25.0	10.1	20.0
2-Chloroethyl vinyl ether	Ave	1.068	1.054		24.7	25.0	-1.3	20.0
cis-1,3-Dichloropropene	Ave	2.023	2.126	0.2000	26.3	25.0	5.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7981	0.6942	0.1000	109	125	-13.0	20.0
Toluene	Ave	1.662	1.683	0.4000	25.3	25.0	1.3	20.0
trans-1,3-Dichloropropene	Ave	0.9155	0.9823	0.1000	26.8	25.0	7.3	20.0
Ethyl methacrylate	Ave	0.8975	0.9030		25.2	25.0	0.6	20.0
1,1,2-Trichloroethane	Ave	0.5007	0.4937	0.1000	24.7	25.0	-1.4	20.0
Tetrachloroethene	Ave	0.7017	0.7223	0.2000	25.7	25.0	2.9	20.0
1,3-Dichloropropane	Ave	1.056	1.064		25.2	25.0	0.8	20.0
2-Hexanone	Ave	0.5875	0.5080	0.1000	108	125	-13.5	20.0
Dibromochloromethane	Ave	0.5694	0.6377	0.1000	28.0	25.0	12.0	20.0
1,2-Dibromoethane	Ave	0.6308	0.6331		25.1	25.0	0.4	20.0
Chlorobenzene	Ave	1.821	1.876	0.5000	25.8	25.0	3.0	20.0
Ethylbenzene	Ave	2.995	3.122	0.1000	26.1	25.0	4.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5890	0.6498		27.6	25.0	10.3	20.0
m,p-Xylene	Ave	1.218	1.243	0.1000	25.5	25.0	2.0	20.0
o-Xylene	Ave	1.156	1.222	0.3000	26.4	25.0	5.7	20.0
Styrene	Ave	1.985	2.094	0.3000	26.4	25.0	5.5	20.0
Bromoform	Ave	0.3637	0.4072	0.1000	28.0	25.0	12.0	50.0
Isopropylbenzene	Ave	3.152	3.424	0.1000	27.2	25.0	8.6	20.0
Bromobenzene	Ave	0.7974	0.8249		25.9	25.0	3.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	0.8429	0.3000	24.6	25.0	-1.6	20.0
N-Propylbenzene	Ave	3.654	3.987		27.3	25.0	9.1	20.0
1,2,3-Trichloropropane	Ave	0.2819	0.2751		24.4	25.0	-2.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2820		23.1	25.0	-7.5	50.0
2-Chlorotoluene	Ave	0.7865	0.8002		25.4	25.0	1.7	20.0
1,3,5-Trimethylbenzene	Ave	2.734	2.895		26.5	25.0	5.9	20.0
4-Chlorotoluene	Ave	0.8059	0.8309		25.8	25.0	3.1	20.0
tert-Butylbenzene	Ave	0.5829	0.6437		27.6	25.0	10.4	20.0
1,2,4-Trimethylbenzene	Ave	2.793	2.962		26.5	25.0	6.1	20.0
sec-Butylbenzene	Ave	3.279	3.646		27.8	25.0	11.2	20.0
1,3-Dichlorobenzene	Ave	1.549	1.586	0.6000	25.6	25.0	2.3	20.0
4-Isopropyltoluene	Ave	2.822	3.188		28.2	25.0	13.0	20.0
1,4-Dichlorobenzene	Ave	1.580	1.627	0.5000	25.7	25.0	3.0	20.0
n-Butylbenzene	Ave	2.545	2.861		28.1	25.0	12.4	20.0
1,2-Dichlorobenzene	Ave	1.525	1.543	0.4000	25.3	25.0	1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421186/2 Calibration Date: 06/22/2018 20:06
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2615.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1662	0.1605	0.0500	24.1	25.0	-3.4	50.0
1,2,4-Trichlorobenzene	Ave	1.085	1.120	0.2000	25.8	25.0	3.2	20.0
Hexachlorobutadiene	Ave	0.5186	0.5894		28.4	25.0	13.6	20.0
Naphthalene	Ave	2.965	3.015		25.4	25.0	1.7	20.0
1,2,3-Trichlorobenzene	Ave	1.000	1.089		27.2	25.0	8.9	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.229		25.7	25.0	2.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7832	0.7539		24.1	25.0	-3.7	20.0
Toluene-d8 (Surr)	Ave	2.435	2.394		24.6	25.0	-1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7477	0.7442		24.9	25.0	-0.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2615.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 22-Jun-2018 20:06:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0072570-002
 Operator ID: kn Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 20:49:21 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: nowakk

Date: 22-Jun-2018 20:49:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	192826	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	83	391073	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	53	358460	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	61	236965	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	145374	25.0	24.1	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	936361	25.0	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	291032	25.0	24.9	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	191189	25.0	20.6	
12 Chloromethane	50	1.464	1.464	0.000	100	299674	25.0	20.3	
13 Vinyl chloride	62	1.549	1.549	0.000	96	293891	25.0	22.4	
151 Butadiene	54	1.580	1.580	0.000	82	292794	25.0	21.4	
14 Bromomethane	94	1.872	1.872	0.000	88	152145	25.0	21.6	
15 Chloroethane	64	1.981	1.981	0.000	95	179292	25.0	22.6	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	79	319570	25.0	25.7	
16 Dichlorofluoromethane	67	2.200	2.200	0.000	95	370375	25.0	21.3	
18 Ethyl ether	59	2.492	2.492	0.000	91	284922	25.0	25.8	
20 Acrolein	56	2.687	2.687	0.000	97	237907	125.0	112.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	78	185007	25.0	24.5	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	87	226116	25.0	26.5	
23 Acetone	43	2.845	2.845	0.000	100	405328	125.0	109.3	
25 Iodomethane	142	2.888	2.888	0.000	97	363214	25.0	29.2	
26 Carbon disulfide	76	2.918	2.918	0.000	98	726369	25.0	26.8	
28 3-Chloro-1-propene	41	3.095	3.095	0.000	87	407243	25.0	24.7	
27 Methyl acetate	43	3.143	3.143	0.000	95	423641	50.0	43.5	
30 Methylene Chloride	84	3.253	3.253	0.000	96	253839	25.0	22.4	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	95	303706	250.0	241.6	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	788057	25.0	24.7	
34 trans-1,2-Dichloroethene	96	3.466	3.466	0.000	90	265616	25.0	27.2	
33 Acrylonitrile	53	3.539	3.539	0.000	98	1201997	250.0	232.2	
35 Hexane	57	3.660	3.660	0.000	83	484368	25.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.898	0.000	96	529768	25.0	25.8	
37 Vinyl acetate	43	3.952	3.952	0.000	97	1239171	50.0	52.3	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	88	326428	25.0	28.7	
45 cis-1,2-Dichloroethene	96	4.451	4.451	0.000	81	292344	25.0	26.1	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	95	661211	125.0	116.1	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	141266	25.0	26.4	
49 Tetrahydrofuran	42	4.713	4.713	0.000	87	175815	50.0	44.9	
50 Chloroform	83	4.774	4.774	0.000	84	442508	25.0	24.7	
52 Cyclohexane	56	4.877	4.877	0.000	90	488826	25.0	27.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	90	364980	25.0	27.3	
55 Carbon tetrachloride	117	5.017	5.017	0.000	89	325475	25.0	29.1	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	93	357250	25.0	26.3	
57 Benzene	78	5.236	5.236	0.000	96	1062659	25.0	26.0	
53 Isobutyl alcohol	43	5.267	5.267	0.000	94	309057	625.0	584.1	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	408120	25.0	24.7	
59 n-Heptane	43	5.406	5.406	0.000	91	417581	25.0	25.0	
62 Trichloroethene	95	5.851	5.851	0.000	96	271464	25.0	25.7	
64 Methylcyclohexane	83	5.966	5.966	0.000	93	466937	25.0	29.1	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	311267	25.0	25.2	
67 Dibromomethane	93	6.234	6.234	0.000	92	160107	25.0	24.9	
66 1,4-Dioxane	88	6.240	6.240	0.000	38	48057	500.0	554.1	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	341581	25.0	27.5	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	203256	25.0	24.7	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	409952	25.0	26.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1357460	125.0	108.7	
74 Toluene	92	7.086	7.086	0.000	95	658225	25.0	25.3	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.000	94	384156	25.0	26.8	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	353144	25.0	25.2	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	95	193078	25.0	24.7	
81 Tetrachloroethene	166	7.621	7.621	0.000	86	282485	25.0	25.7	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	416249	25.0	25.2	
80 2-Hexanone	43	7.791	7.791	0.000	90	993269	125.0	108.1	
83 Chlorodibromomethane	129	7.962	7.962	0.000	92	249382	25.0	28.0	
84 Ethylene Dibromide	107	8.071	8.071	0.000	95	247598	25.0	25.1	
87 Chlorobenzene	112	8.540	8.540	0.000	93	733827	25.0	25.8	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1220982	25.0	26.1	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.637	0.000	48	254121	25.0	27.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	486205	25.0	25.5	
91 o-Xylene	106	9.178	9.178	0.000	97	477788	25.0	26.4	
92 Styrene	104	9.209	9.209	0.000	94	818779	25.0	26.4	
95 Bromoform	173	9.464	9.464	0.000	94	159240	25.0	28.0	
94 Isopropylbenzene	105	9.562	9.562	0.000	96	1227296	25.0	27.2	
101 Bromobenzene	156	9.908	9.908	0.000	95	295701	25.0	25.9	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	70	302161	25.0	24.6	
99 N-Propylbenzene	91	9.987	9.987	0.000	92	1429316	25.0	27.3	
100 1,2,3-Trichloropropane	110	10.000	10.000	0.000	66	98622	25.0	24.4	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	79	101076	25.0	23.1	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	286843	25.0	25.4	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	75	1037663	25.0	26.5	
105 4-Chlorotoluene	126	10.200	10.200	0.000	95	297860	25.0	25.8	
106 tert-Butylbenzene	134	10.474	10.474	0.000	93	230725	25.0	27.6	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1061840	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	1306821	25.0	27.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	568433	25.0	25.6	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1142705	25.0	28.2	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	94	583078	25.0	25.7	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1025434	25.0	28.1	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	91	553028	25.0	25.3	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	76	57540	25.0	24.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	401438	25.0	25.8	
120 Hexachlorobutadiene	225	12.768	12.768	0.000	97	211272	25.0	28.4	
121 Naphthalene	128	12.877	12.877	0.000	97	1080589	25.0	25.4	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	390365	25.0	27.2	

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2615.D

Injection Date: 22-Jun-2018 20:06:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

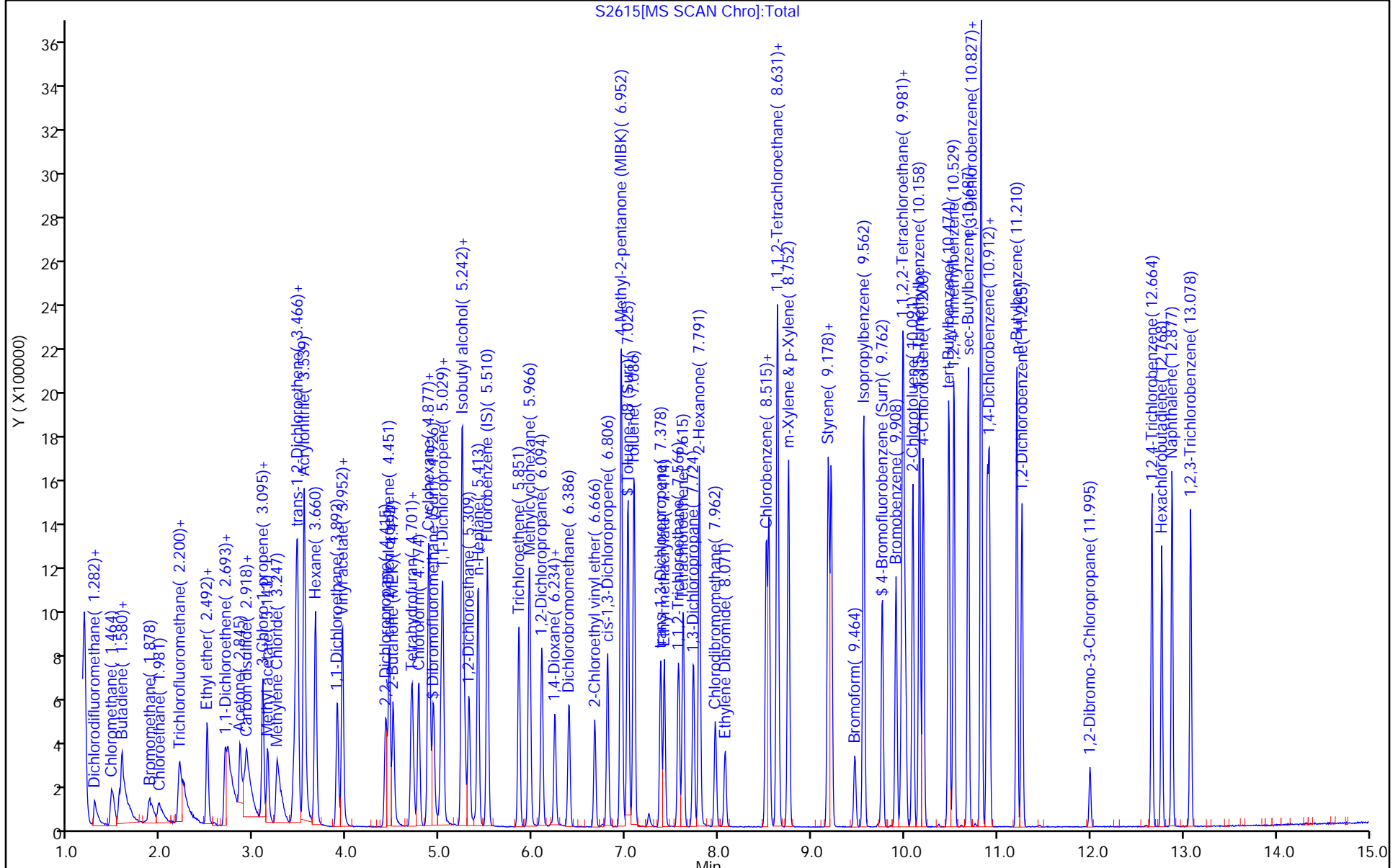
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421204/3 Calibration Date: 06/23/2018 10:20
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2642.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.204	1.003	0.1000	20.8	25.0	-16.7	50.0
Chloromethane	Ave	1.913	1.526	0.1000	19.9	25.0	-20.2*	20.0
Vinyl chloride	Ave	1.701	1.496	0.1000	22.0	25.0	-12.1	20.0
Butadiene	Ave	1.774	1.463		20.6	25.0	-17.5	20.0
Bromomethane	Ave	0.9114	0.7669	0.1000	21.0	25.0	-15.9	50.0
Chloroethane	Ave	1.029	0.9066	0.1000	22.0	25.0	-11.9	50.0
Dichlorofluoromethane	Ave	2.255	1.908		21.1	25.0	-15.4	20.0
Trichlorofluoromethane	Ave	1.612	1.463	0.1000	22.7	25.0	-9.2	20.0
Ethyl ether	Ave	1.434	1.344		23.4	25.0	-6.3	20.0
Acrolein	Ave	0.2746	0.2542		116	125	-7.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.031	0.1000	26.3	25.0	5.3	20.0
1,1-Dichloroethene	Ave	1.104	1.022	0.1000	23.1	25.0	-7.5	20.0
Acetone	Ave	0.4810	0.4866	0.1000	126	125	1.2	50.0
Iodomethane	Ave	1.615	1.658		25.7	25.0	2.7	20.0
Carbon disulfide	Ave	3.520	3.239	0.1000	23.0	25.0	-8.0	20.0
Allyl chloride	Ave	2.141	1.918		22.4	25.0	-10.4	20.0
Methyl acetate	Ave	1.263	1.113	0.1000	44.1	50.0	-11.8	50.0
Methylene Chloride	Lin1		1.235	0.1000	20.9	25.0	-16.5	20.0
2-Methyl-2-propanol	Ave	0.1630	0.1957		300	250	20.1	50.0
Methyl tert-butyl ether	Ave	4.138	3.843	0.1000	23.2	25.0	-7.1	20.0
trans-1,2-Dichloroethene	Ave	1.264	1.198	0.1000	23.7	25.0	-5.2	20.0
Acrylonitrile	Ave	0.6712	0.6478		241	250	-3.5	20.0
Hexane	Ave	2.330	2.336		25.1	25.0	0.2	20.0
1,1-Dichloroethane	Ave	2.662	2.450	0.2000	23.0	25.0	-8.0	20.0
Vinyl acetate	Ave	3.070	3.038		49.5	50.0	-1.0	20.0
2,2-Dichloropropane	Ave	1.475	1.516		25.7	25.0	2.8	20.0
cis-1,2-Dichloroethene	Ave	1.452	1.393	0.1000	24.0	25.0	-4.1	20.0
2-Butanone (MEK)	Ave	0.7386	0.7232	0.1000	122	125	-2.1	20.0
Chlorobromomethane	Ave	0.6939	0.6563		23.6	25.0	-5.4	20.0
Tetrahydrofuran	Ave	0.5075	0.4689		46.2	50.0	-7.6	20.0
Chloroform	Ave	2.323	2.115	0.2000	22.8	25.0	-9.0	20.0
1,1,1-Trichloroethane	Ave	1.731	1.711	0.1000	24.7	25.0	-1.2	20.0
Cyclohexane	Ave	2.329	2.437	0.1000	26.2	25.0	4.7	20.0
Carbon tetrachloride	Ave	1.451	1.501	0.1000	25.9	25.0	3.5	20.0
1,1-Dichloropropene	Ave	1.764	1.714		24.3	25.0	-2.9	20.0
Benzene	Ave	5.304	4.964	0.5000	23.4	25.0	-6.4	20.0
Isobutyl alcohol	Ave	0.0686	0.0745		679	625	8.6	50.0
1,2-Dichloroethane	Ave	2.143	1.969	0.1000	23.0	25.0	-8.1	20.0
n-Heptane	Ave	2.167	2.039		23.5	25.0	-5.9	20.0
Trichloroethene	Ave	1.368	1.284	0.2000	23.5	25.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421204/3 Calibration Date: 06/23/2018 10:20
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2642.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.084	2.205	0.1000	26.5	25.0	5.8	20.0
1,2-Dichloropropane	Ave	1.600	1.461	0.1000	22.8	25.0	-8.7	20.0
Dibromomethane	Ave	0.8353	0.8236	0.1000	24.6	25.0	-1.4	20.0
1,4-Dioxane	Lin1		0.0063		567	500	13.4	50.0
Bromodichloromethane	Ave	1.609	1.607	0.2000	25.0	25.0	-0.1	20.0
2-Chloroethyl vinyl ether	Ave	1.068	0.9913		23.2	25.0	-7.1	20.0
cis-1,3-Dichloropropene	Ave	2.023	1.934	0.2000	23.9	25.0	-4.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7981	0.7148	0.1000	112	125	-10.4	20.0
Toluene	Ave	1.662	1.628	0.4000	24.5	25.0	-2.1	20.0
trans-1,3-Dichloropropene	Ave	0.9155	0.9305	0.1000	25.4	25.0	1.6	20.0
Ethyl methacrylate	Ave	0.8975	0.8906		24.8	25.0	-0.8	20.0
1,1,2-Trichloroethane	Ave	0.5007	0.4854	0.1000	24.2	25.0	-3.0	20.0
Tetrachloroethene	Ave	0.7017	0.7162	0.2000	25.5	25.0	2.1	20.0
1,3-Dichloropropane	Ave	1.056	1.004		23.8	25.0	-4.9	20.0
2-Hexanone	Ave	0.5875	0.5271	0.1000	112	125	-10.3	20.0
Dibromochloromethane	Ave	0.5694	0.6006	0.1000	26.4	25.0	5.5	20.0
1,2-Dibromoethane	Ave	0.6308	0.6009		23.8	25.0	-4.8	20.0
Chlorobenzene	Ave	1.821	1.778	0.5000	24.4	25.0	-2.4	20.0
Ethylbenzene	Ave	2.995	2.921	0.1000	24.4	25.0	-2.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5890	0.6145		26.1	25.0	4.3	20.0
m,p-Xylene	Ave	1.218	1.152	0.1000	23.6	25.0	-5.4	20.0
o-Xylene	Ave	1.156	1.124	0.3000	24.3	25.0	-2.8	20.0
Styrene	Ave	1.985	1.988	0.3000	25.0	25.0	0.2	20.0
Bromoform	Ave	0.3637	0.4009	0.1000	27.6	25.0	10.2	50.0
Isopropylbenzene	Ave	3.152	3.293	0.1000	26.1	25.0	4.5	20.0
Bromobenzene	Ave	0.7974	0.8142		25.5	25.0	2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	0.8807	0.3000	25.7	25.0	2.8	20.0
N-Propylbenzene	Ave	3.654	3.797		26.0	25.0	3.9	20.0
1,2,3-Trichloropropane	Ave	0.2819	0.2915		25.8	25.0	3.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2948		24.2	25.0	-3.4	50.0
2-Chlorotoluene	Ave	0.7865	0.7931		25.2	25.0	0.8	20.0
1,3,5-Trimethylbenzene	Ave	2.734	2.805		25.6	25.0	2.6	20.0
4-Chlorotoluene	Ave	0.8059	0.8365		25.9	25.0	3.8	20.0
tert-Butylbenzene	Ave	0.5829	0.6204		26.6	25.0	6.4	20.0
1,2,4-Trimethylbenzene	Ave	2.793	2.886		25.8	25.0	3.3	20.0
sec-Butylbenzene	Ave	3.279	3.550		27.1	25.0	8.3	20.0
1,3-Dichlorobenzene	Ave	1.549	1.537	0.6000	24.8	25.0	-0.8	20.0
4-Isopropyltoluene	Ave	2.822	3.115		27.6	25.0	10.4	20.0
1,4-Dichlorobenzene	Ave	1.580	1.600	0.5000	25.3	25.0	1.3	20.0
n-Butylbenzene	Ave	2.545	2.806		27.6	25.0	10.3	20.0
1,2-Dichlorobenzene	Ave	1.525	1.501	0.4000	24.6	25.0	-1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-421204/3 Calibration Date: 06/23/2018 10:20
 Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/20/2018 16:34
 Lab File ID: S2642.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1662	0.1711	0.0500	25.7	25.0	2.9	50.0
1,2,4-Trichlorobenzene	Ave	1.085	1.119	0.2000	25.8	25.0	3.1	20.0
Hexachlorobutadiene	Ave	0.5186	0.5762		27.8	25.0	11.1	20.0
Naphthalene	Ave	2.965	3.082		26.0	25.0	4.0	20.0
1,2,3-Trichlorobenzene	Ave	1.000	1.050		26.2	25.0	5.0	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.179		24.6	25.0	-1.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7832	0.7884		25.2	25.0	0.7	20.0
Toluene-d8 (Surr)	Ave	2.435	2.454		25.2	25.0	0.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7477	0.7354		24.6	25.0	-1.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 23-Jun-2018 10:20:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0072571-003
 Operator ID: RB Instrument ID: HP5973S
 Sublist: chrom-S-8260*sub26
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 10:53:29 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 10:53:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	200347	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	390439	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.894	0.000	52	349453	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	57	236288	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	157943	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	957979	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	287146	25.0	24.6	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	200869	25.0	20.8	
12 Chloromethane	50	1.470	1.470	0.000	99	305655	25.0	19.9	M
13 Vinyl chloride	62	1.543	1.543	0.000	92	299649	25.0	22.0	
151 Butadiene	54	1.574	1.574	0.000	86	293178	25.0	20.6	
14 Bromomethane	94	1.860	1.860	0.000	88	153643	25.0	21.0	M
15 Chloroethane	64	1.963	1.963	0.000	95	181627	25.0	22.0	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	76	293091	25.0	22.7	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	382198	25.0	21.1	
18 Ethyl ether	59	2.492	2.492	0.000	93	269179	25.0	23.4	
20 Acrolein	56	2.681	2.681	0.000	98	254635	125.0	115.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.693	2.693	0.000	50	206543	25.0	26.3	
22 1,1-Dichloroethene	96	2.723	2.723	0.000	89	204760	25.0	23.1	
23 Acetone	43	2.845	2.845	0.000	98	487457	125.0	126.5	
25 Iodomethane	142	2.894	2.894	0.000	96	332163	25.0	25.7	
26 Carbon disulfide	76	2.918	2.918	0.000	99	648830	25.0	23.0	
28 3-Chloro-1-propene	41	3.088	3.088	0.000	90	384364	25.0	22.4	
27 Methyl acetate	43	3.143	3.143	0.000	95	446050	50.0	44.1	
30 Methylene Chloride	84	3.247	3.247	0.000	95	247436	25.0	20.9	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	392104	250.0	300.2	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	769904	25.0	23.2	
34 trans-1,2-Dichloroethene	96	3.466	3.466	0.000	92	240077	25.0	23.7	
33 Acrylonitrile	53	3.539	3.539	0.000	99	1297849	250.0	241.3	
35 Hexane	57	3.660	3.660	0.000	87	467996	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	490821	25.0	23.0	
37 Vinyl acetate	43	3.946	3.946	0.000	97	1217309	50.0	49.5	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	92	303764	25.0	25.7	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	80	279125	25.0	24.0	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	724418	125.0	122.4	
48 Chlorobromomethane	128	4.695	4.695	0.000	95	131481	25.0	23.6	
49 Tetrahydrofuran	42	4.713	4.713	0.000	90	187870	50.0	46.2	
50 Chloroform	83	4.774	4.774	0.000	93	423645	25.0	22.8	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	92	342703	25.0	24.7	
52 Cyclohexane	56	4.883	4.883	0.000	90	488307	25.0	26.2	
55 Carbon tetrachloride	117	5.011	5.011	0.000	88	300703	25.0	25.9	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	343382	25.0	24.3	
57 Benzene	78	5.236	5.236	0.000	96	994456	25.0	23.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	96	373298	625.0	679.0	
58 1,2-Dichloroethane	62	5.309	5.309	0.000	78	394419	25.0	23.0	
59 n-Heptane	43	5.406	5.406	0.000	90	408583	25.0	23.5	
62 Trichloroethene	95	5.850	5.850	0.000	96	257312	25.0	23.5	
64 Methylcyclohexane	83	5.966	5.966	0.000	91	441670	25.0	26.5	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	96	292731	25.0	22.8	
67 Dibromomethane	93	6.234	6.234	0.000	88	165008	25.0	24.6	
66 1,4-Dioxane	88	6.240	6.240	0.000	43	49136	500.0	567.1	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	322011	25.0	25.0	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	198612	25.0	23.2	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	387490	25.0	23.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	95	1395415	125.0	111.9	
74 Toluene	92	7.085	7.085	0.000	94	635455	25.0	24.5	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	94	363313	25.0	25.4	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	347707	25.0	24.8	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	189518	25.0	24.2	
81 Tetrachloroethene	166	7.615	7.615	0.000	88	279635	25.0	25.5	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	392083	25.0	23.8	
80 2-Hexanone	43	7.791	7.791	0.000	89	1029088	125.0	112.2	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	234484	25.0	26.4	
84 Ethylene Dibromide	107	8.071	8.071	0.000	99	234601	25.0	23.8	
87 Chlorobenzene	112	8.539	8.539	0.000	93	694202	25.0	24.4	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1140336	25.0	24.4	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	58	239915	25.0	26.1	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	449855	25.0	23.6	
91 o-Xylene	106	9.178	9.178	0.000	98	438723	25.0	24.3	
92 Styrene	104	9.209	9.209	0.000	94	776364	25.0	25.0	
95 Bromoform	173	9.470	9.470	0.000	97	156516	25.0	27.6	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	1150837	25.0	26.1	
101 Bromobenzene	156	9.908	9.908	0.000	96	284533	25.0	25.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	77	307773	25.0	25.7	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	1326994	25.0	26.0	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	65	101855	25.0	25.8	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.018	0.000	70	103007	25.0	24.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	277158	25.0	25.2	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	94	980365	25.0	25.6	
105 4-Chlorotoluene	126	10.200	10.200	0.000	88	292299	25.0	25.9	
106 tert-Butylbenzene	134	10.474	10.474	0.000	92	216784	25.0	26.6	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	40	1008385	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1240578	25.0	27.1	
111 1,3-Dichlorobenzene	146	10.821	10.821	0.000	71	537201	25.0	24.8	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1088427	25.0	27.6	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	94	559168	25.0	25.3	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	980473	25.0	27.6	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	524416	25.0	24.6	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	78	59779	25.0	25.7	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	390959	25.0	25.8	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	97	201336	25.0	27.8	
121 Naphthalene	128	12.877	12.877	0.000	97	1077122	25.0	26.0	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	367014	25.0	26.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D

Injection Date: 23-Jun-2018 10:20:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

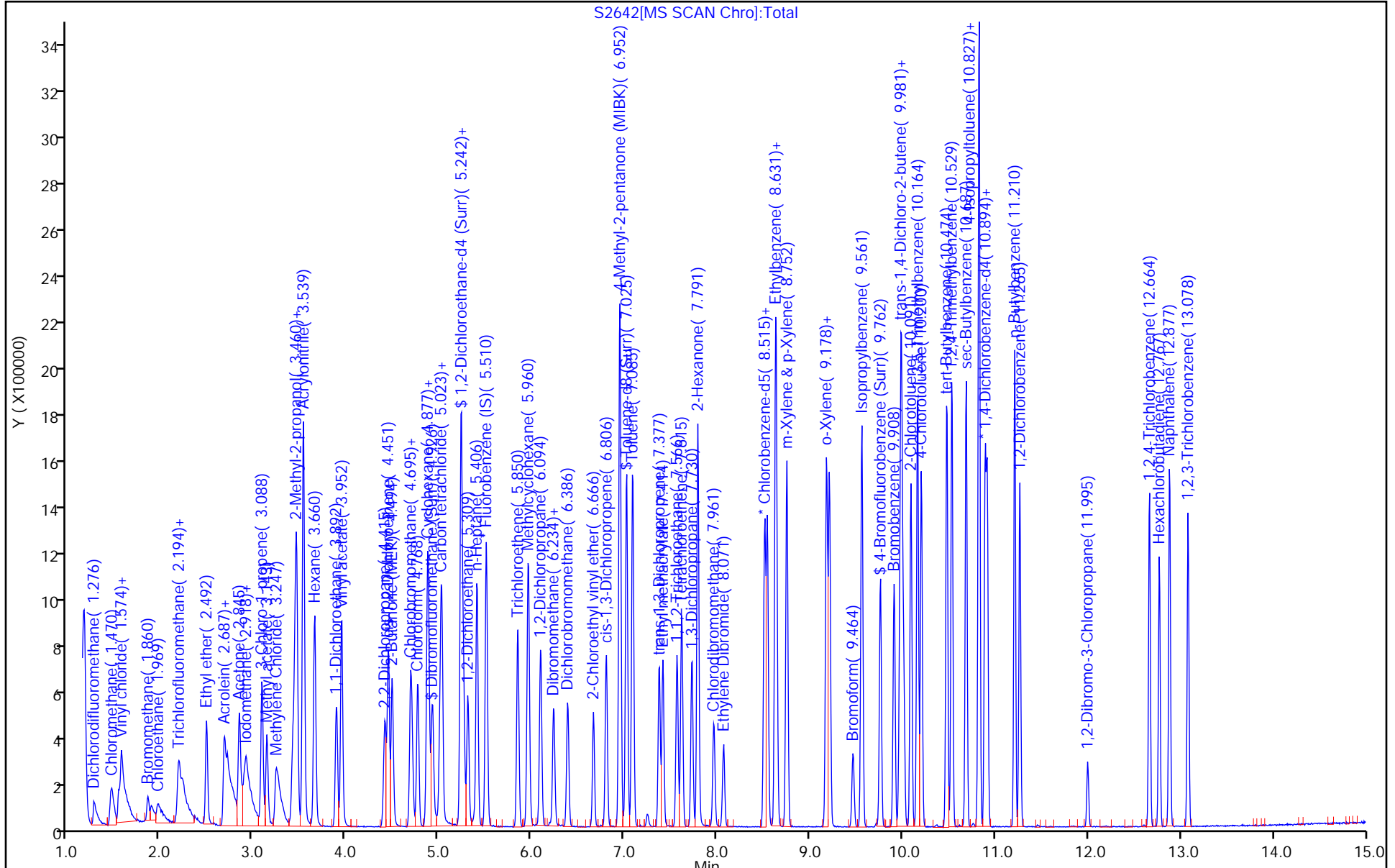
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

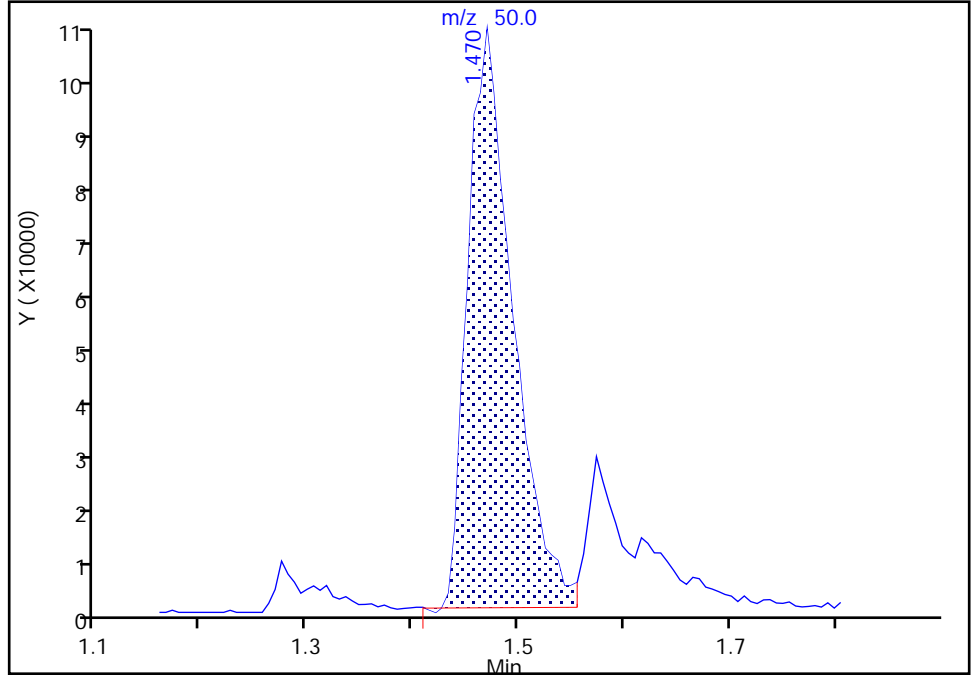
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D
Injection Date: 23-Jun-2018 10:20:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: RB ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

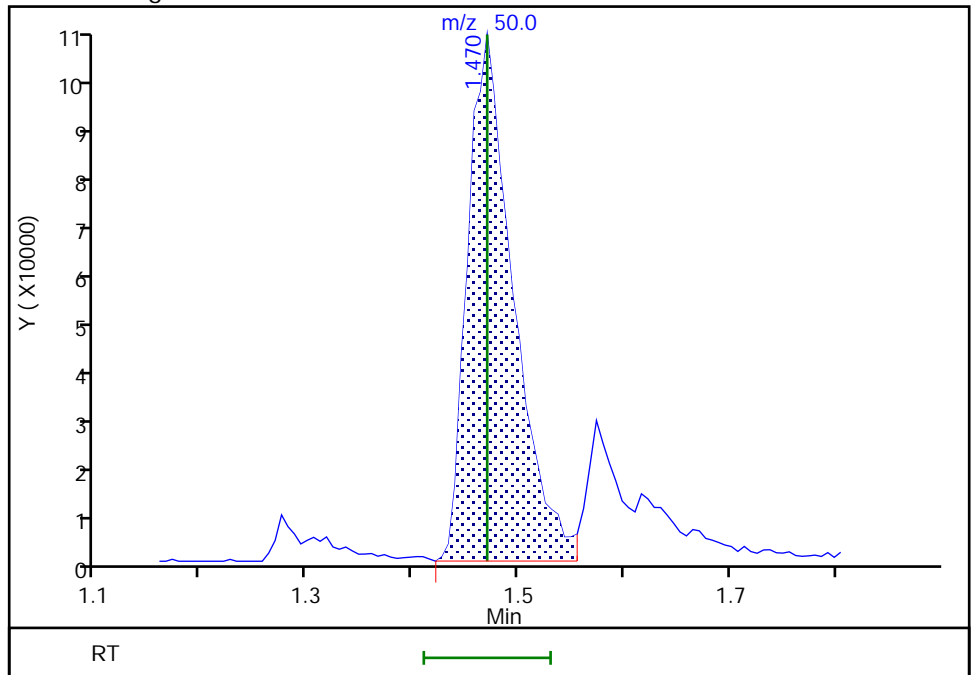
RT: 1.47
Area: 299028
Amount: 19.510111
Amount Units: ug/L

Processing Integration Results



RT: 1.47
Area: 305655
Amount: 19.942490
Amount Units: ug/L

Manual Integration Results



Reviewer: baroner, 23-Jun-2018 10:46:20
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

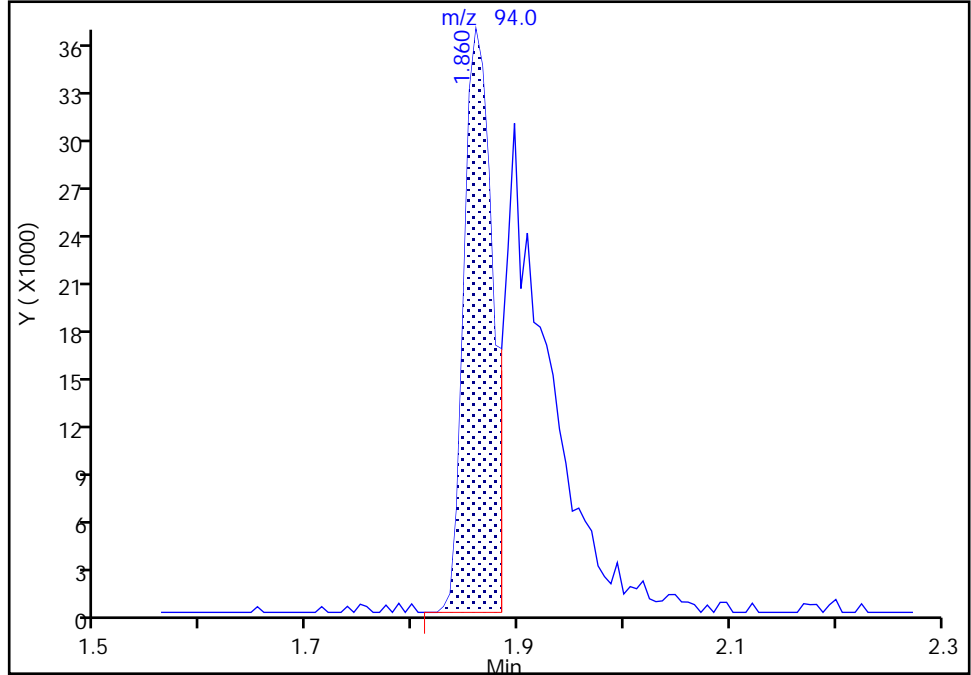
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2642.D
Injection Date: 23-Jun-2018 10:20:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: RB ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

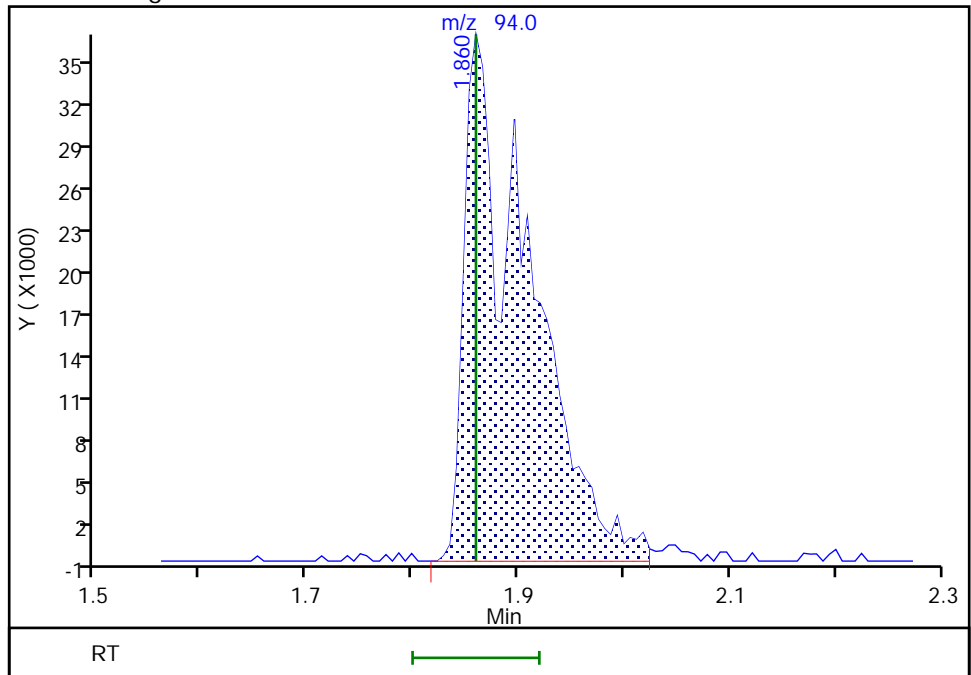
RT: 1.86
Area: 70249
Amount: 9.618328
Amount Units: ug/L

Processing Integration Results



RT: 1.86
Area: 153643
Amount: 21.036438
Amount Units: ug/L

Manual Integration Results



Reviewer: baroner, 23-Jun-2018 10:44:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 20-Jun-2018 12:54:30 ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0072482-003
 Operator ID: LH/ZV Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Jun-2018 14:25:32 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: HillL Date: 20-Jun-2018 13:13:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.844	3.844	0.000	0	365310	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

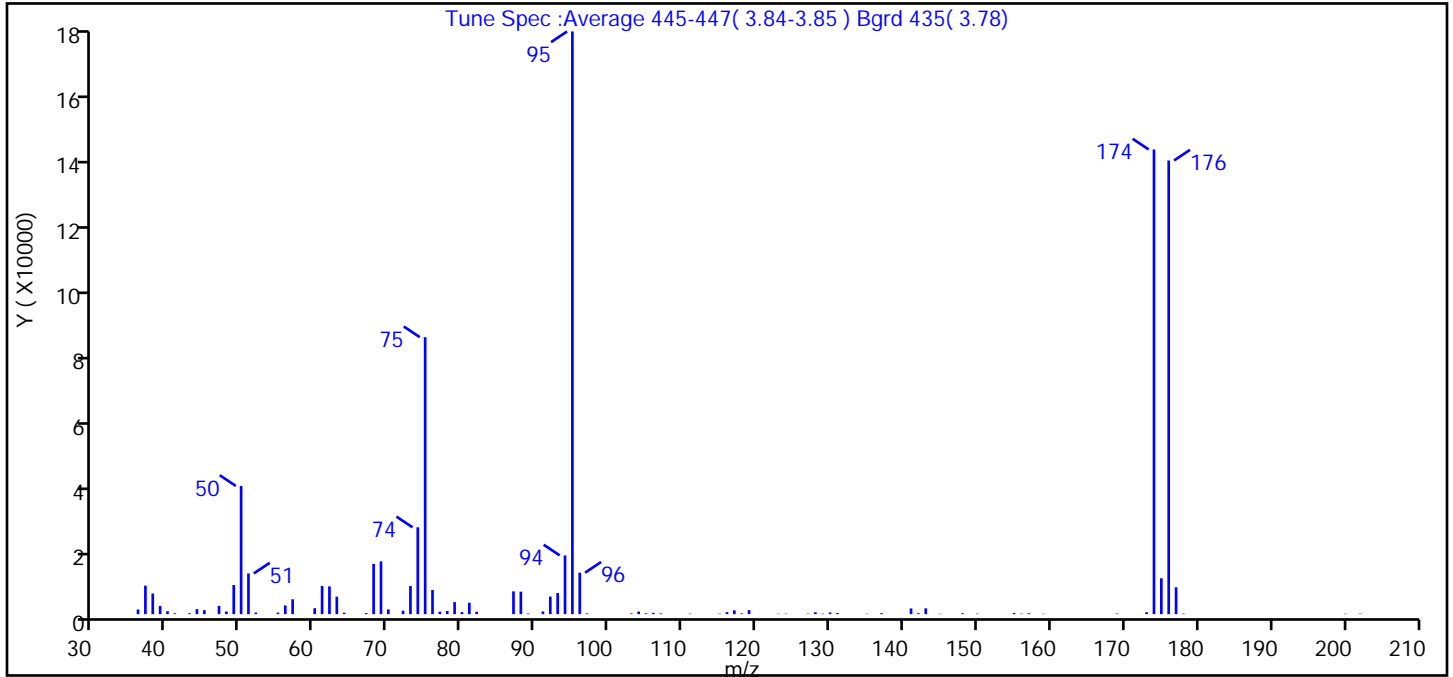
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
 Injection Date: 20-Jun-2018 12:54:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: LH/ZV ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	77.9 (97.6)
177	5 to 9% of m/z 176	4.6 (5.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D\S-8260.rslt\spectra.d
Injection Date: 20-Jun-2018 12:54:30
Spectrum: Tune Spec :Average 445-447(3.84-3.85) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1407	64.00	431	94.00	17720	135.00	127
37.00	8584	67.00	332	95.00	175744	137.00	293
38.00	6219	68.00	15169	96.00	12510	141.00	1718
39.00	2493	69.00	15927	97.00	220	142.00	276
40.00	882	70.00	1443	103.00	214	143.00	1753
41.00	259	72.00	1061	104.00	774	145.00	120
43.00	272	73.00	8463	105.00	254	148.00	274
44.00	1512	74.00	26200	106.00	401	150.00	143
45.00	1201	75.00	83536	107.00	215	155.00	371
47.00	2483	76.00	7284	111.00	150	156.00	135
48.00	793	77.00	743	115.00	152	157.00	266
49.00	8783	78.00	943	116.00	614	159.00	122
50.00	38672	79.00	3636	117.00	1150	169.00	161
51.00	12273	80.00	618	118.00	217	173.00	560
52.00	492	81.00	3438	119.00	1234	174.00	140160
55.00	464	82.00	722	123.00	123	175.00	10816
56.00	2625	87.00	6872	124.00	134	176.00	136832
57.00	4479	88.00	6780	127.00	144	177.00	8108
60.00	1791	89.00	186	128.00	567	178.00	172
61.00	8484	91.00	806	129.00	141	200.00	119
62.00	8375	92.00	5315	130.00	491	202.00	159
63.00	5273	93.00	6372	131.00	333		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2614.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 22-Jun-2018 19:38:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0072570-001
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 11:31:47 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: carrolln Date: 23-Jun-2018 11:31:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.826	3.826	0.000	0	423157	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

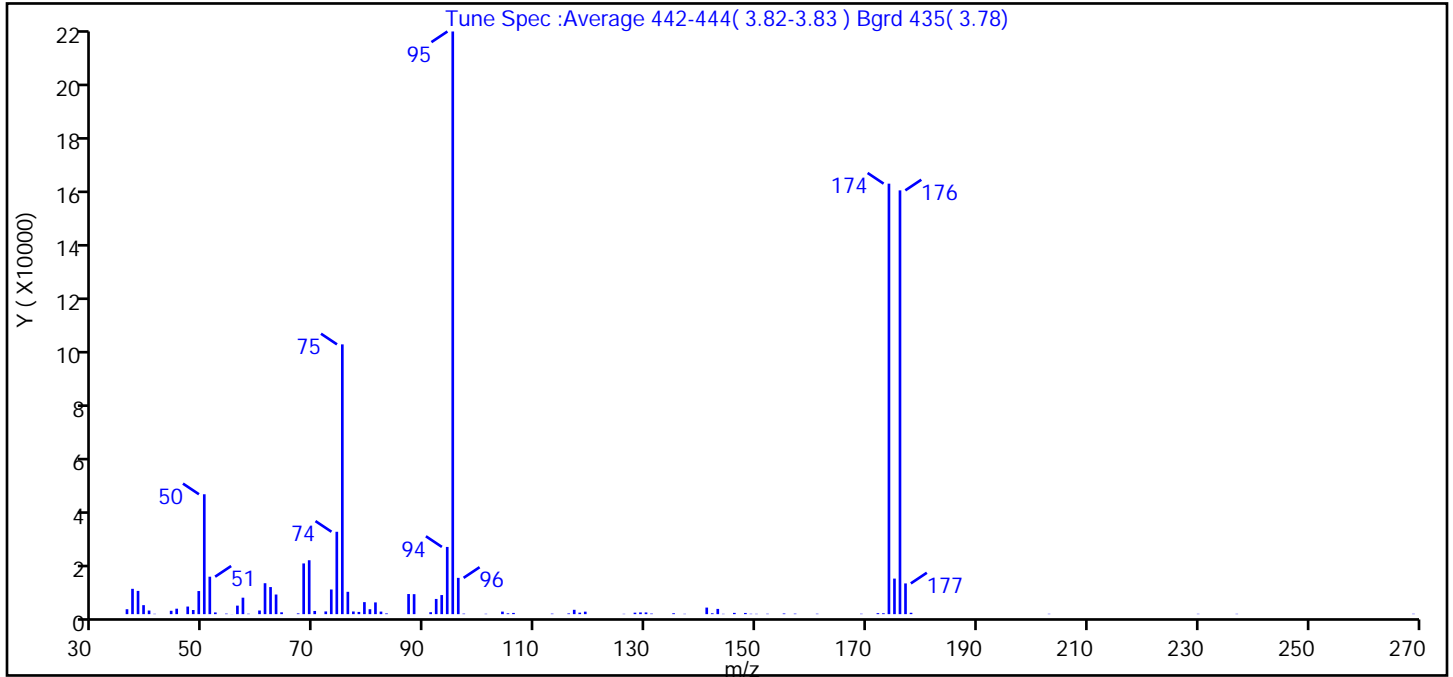
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2614.D
 Injection Date: 22-Jun-2018 19:38:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: kn ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.6
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	73.9
175	5 to 9% of m/z 174	6.1 (8.3)
176	Greater than 95% but less than 101% of m/z 174	72.7 (98.4)
177	5 to 9% of m/z 176	5.3 (7.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2614.D\S-8260.rslt\spectra.d
Injection Date: 22-Jun-2018 19:38:30
Spectrum: Tune Spec :Average 442-444(3.82-3.83) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1828	64.00	682	95.00	216384	146.00	470
37.00	9402	67.00	286	96.00	13474	148.00	443
38.00	8633	68.00	18832	97.00	186	149.00	139
39.00	3340	69.00	20016	101.00	129	150.00	120
40.00	1343	70.00	1186	104.00	939	152.00	148
41.00	123	72.00	1007	105.00	310	155.00	244
44.00	1249	73.00	9163	106.00	457	157.00	183
45.00	2023	74.00	30592	113.00	184	161.00	154
47.00	2823	75.00	100184	116.00	274	169.00	148
48.00	1535	76.00	8295	117.00	1614	172.00	375
49.00	8579	77.00	988	118.00	557	173.00	327
50.00	44520	78.00	821	119.00	920	174.00	159872
51.00	13908	79.00	4461	126.00	118	175.00	13201
52.00	629	80.00	1828	128.00	547	176.00	157376
54.00	192	81.00	4357	129.00	640	177.00	11410
55.00	29	82.00	947	130.00	634	178.00	510
56.00	3165	83.00	271	131.00	210	203.00	123
57.00	6114	87.00	7470	135.00	332	230.00	122
58.00	154	88.00	7419	137.00	122	237.00	117
60.00	1350	91.00	719	141.00	2434	269.00	134
61.00	11484	92.00	5645	142.00	318		
62.00	10056	93.00	7086	143.00	1944		
63.00	7289	94.00	24960	144.00	120		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2641.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 23-Jun-2018 09:52:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0072571-002
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 10:04:43 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner Date: 23-Jun-2018 10:04:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 61 BFB	95	3.851	3.851	0.000	0	308496	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

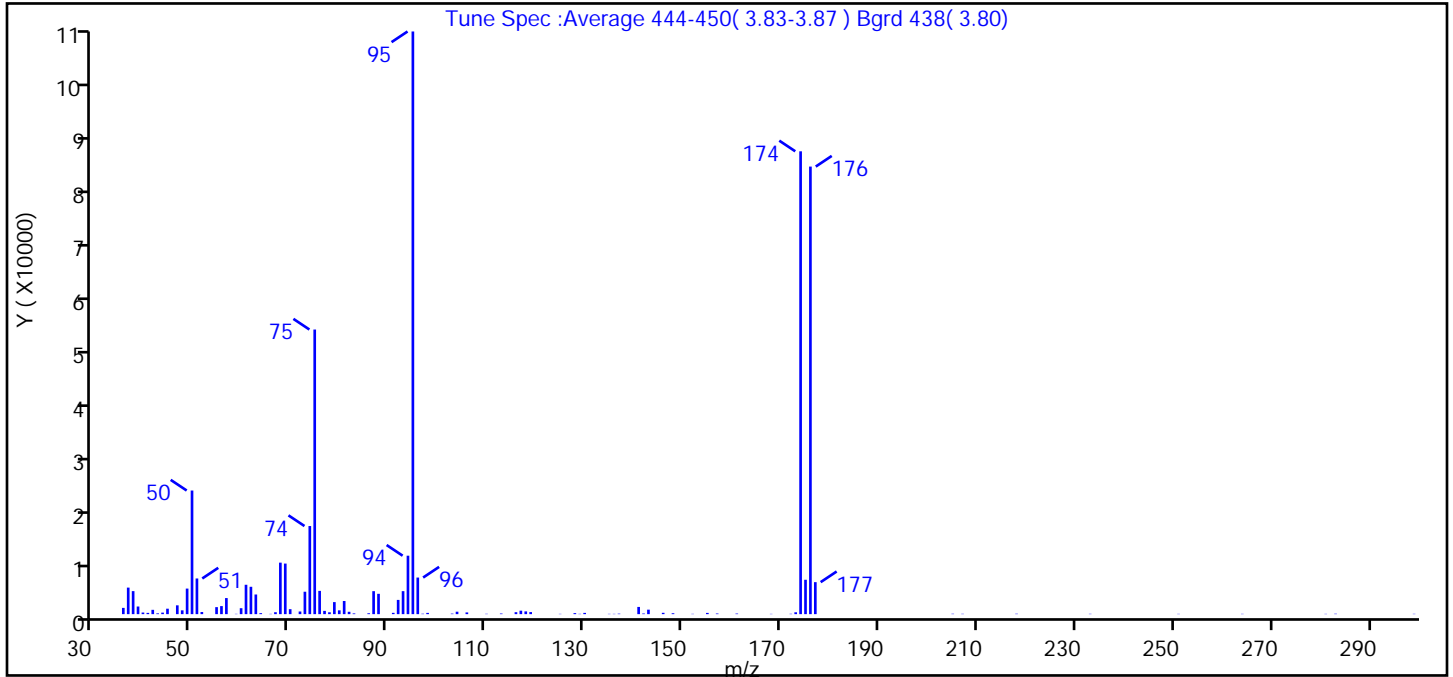
Reagents:

BFB_WRK_00071 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2641.D
 Injection Date: 23-Jun-2018 09:52:30 Instrument ID: HP5973S
 Lims ID: BFB
 Client ID:
 Operator ID: RB ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: S-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.2
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.4
175	5 to 9% of m/z 174	5.9 (7.4)
176	Greater than 95% but less than 101% of m/z 174	76.8 (96.7)
177	5 to 9% of m/z 176	5.5 (7.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2641.D\S-8260.rslt\spectra.d
Injection Date: 23-Jun-2018 09:52:30
Spectrum: Tune Spec :Average 444-450(3.83-3.87) Bgrd 438(3.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1151	64.00	183	94.00	10746	146.00	246
37.00	4879	66.00	50	95.00	107128	148.00	164
38.00	4233	67.00	353	96.00	6727	152.00	56
39.00	1403	68.00	9469	97.00	79	155.00	228
40.00	296	69.00	9297	98.00	230	157.00	116
41.00	233	70.00	912	103.00	98	161.00	107
42.00	792	72.00	486	104.00	448	168.00	50
43.00	141	73.00	4122	106.00	317	172.00	63
44.00	280	74.00	16200	110.00	63	173.00	340
45.00	1001	75.00	52328	113.00	115	174.00	85096
47.00	1620	76.00	4277	116.00	360	175.00	6321
48.00	701	77.00	599	117.00	635	176.00	82288
49.00	4699	78.00	344	118.00	506	177.00	5882
50.00	22728	79.00	2213	119.00	378	205.00	73
51.00	6556	80.00	699	125.00	53	207.00	62
52.00	390	81.00	2417	128.00	187	218.00	75
55.00	1289	82.00	433	129.00	55	233.00	61
56.00	1481	83.00	135	130.00	231	251.00	52
57.00	2956	86.00	160	135.00	54	264.00	55
59.00	54	87.00	4224	136.00	53	281.00	51
60.00	1092	88.00	3738	137.00	89	283.00	77
61.00	5400	91.00	241	141.00	1326	299.00	59
62.00	5029	92.00	2618	142.00	118		
63.00	3613	93.00	4227	143.00	823		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421186/6
 Matrix: Water Lab File ID: S2619.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 21:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421186/6
 Matrix: Water Lab File ID: S2619.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 21:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421186/6
 Matrix: Water Lab File ID: S2619.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 21:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2619.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 22-Jun-2018 21:52:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0072570-006
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 22:27:46 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: nowakk Date: 22-Jun-2018 22:27:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	189930	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	379608	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	343562	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	217972	25.0	24.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.236	0.006	0	150658	25.0	25.3	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	93	922079	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	277944	25.0	24.5	
10 Dichlorodifluoromethane	85		1.282					ND	
11 Chlorodifluoromethane	51		1.306					ND	
12 Chloromethane	50		1.464					ND	
13 Vinyl chloride	62		1.549					ND	
151 Butadiene	54		1.580					ND	
15 Chloroethane	64		1.981					ND	
17 Trichlorofluoromethane	101		2.194					ND	
16 Dichlorofluoromethane	67		2.200					ND	
18 Ethyl ether	59		2.492					ND	
148 Ethanol	45		2.523					ND	
19 Propene oxide	58		2.590					ND	
20 Acrolein	56		2.687					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.705					ND	
22 1,1-Dichloroethene	96		2.724					ND	
23 Acetone	43		2.845					ND	
25 Iodomethane	142		2.888					ND	
26 Carbon disulfide	76		2.918					ND	
24 Isopropyl alcohol	45		3.040					ND	
28 3-Chloro-1-propene	41		3.095					ND	
27 Methyl acetate	43		3.143					ND	
29 Acetonitrile	40		3.168					ND	
31 2-Methyl-2-propanol	59		3.423					ND	
32 Methyl tert-butyl ether	73		3.454					ND	
34 trans-1,2-Dichloroethene	96		3.466					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Acrylonitrile	53		3.539					ND	
35 Hexane	57		3.660					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.898					ND	
36 Isopropyl ether	45		3.904					ND	
40 2-Chloro-1,3-butadiene	53		3.952					ND	
37 Vinyl acetate	43		3.952					ND	
38 1,1-Dimethoxyethane	75		3.983					ND	
41 Tert-butyl ethyl ether	59		4.244					ND	
44 2,2-Dichloropropane	77		4.415					ND	
45 cis-1,2-Dichloroethene	96		4.451					ND	
43 2-Butanone (MEK)	43		4.494					ND	
42 Ethyl acetate	43		4.524					ND	
46 Propionitrile	54		4.609					ND	
48 Chlorobromomethane	128		4.695					ND	
47 Methacrylonitrile	41		4.713					ND	
49 Tetrahydrofuran	42		4.713					ND	
50 Chloroform	83		4.774					ND	
52 Cyclohexane	56		4.877					ND	
51 1,1,1-Trichloroethane	97		4.877					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		5.017					ND	
54 1,1-Dichloropropene	75		5.029					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.224					ND	
57 Benzene	78		5.236					ND	
53 Isobutyl alcohol	43		5.267					ND	
56 Tert-amyl methyl ether	73		5.309					ND	
58 1,2-Dichloroethane	62		5.315					ND	
147 t-Amyl alcohol	59		5.321					ND	
59 n-Heptane	43		5.406					ND	
1 1,4-Difluorobenzene	114		5.625					ND	
62 Trichloroethene	95		5.851					ND	
60 n-Butanol	56		5.887					ND	
64 Methylcyclohexane	83		5.966					ND	
142 Ethyl acrylate	55		5.978					ND	
65 1,2-Dichloropropane	63		6.094					ND	
63 Methyl methacrylate	41		6.191					ND	
67 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.240					ND	
68 Dichlorobromomethane	83		6.386					ND	
70 2-Nitropropane	43		6.647					ND	
69 2-Chloroethyl vinyl ether	63		6.666					ND	
71 Epichlorohydrin	57		6.769					ND	
72 cis-1,3-Dichloropropene	75		6.806					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952					ND	
74 Toluene	92		7.086					ND	
76 2-Methylthiophene	97		7.225					ND	
77 trans-1,3-Dichloropropene	75		7.378					ND	
78 3-Methylthiophene	97		7.390					ND	
75 Ethyl methacrylate	69		7.414					ND	
79 1,1,2-Trichloroethane	83		7.566					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
81 Tetrachloroethene	166		7.621					ND	
82 1,3-Dichloropropane	76		7.730					ND	
80 2-Hexanone	43		7.791					ND	
155 n-Butyl acetate	43		7.894					ND	
83 Chlorodibromomethane	129		7.962					ND	
84 Ethylene Dibromide	107		8.071					ND	
146 1-Chlorohexane	55		8.485					ND	U
85 3-Chlorobenzotrifluoride	180		8.509					ND	
87 Chlorobenzene	112		8.540					ND	
86 4-Chlorobenzotrifluoride	180		8.570					ND	
88 Ethylbenzene	91		8.631					ND	
89 1,1,1,2-Tetrachloroethane	131		8.637					ND	
90 m-Xylene & p-Xylene	106		8.752					ND	
91 o-Xylene	106		9.178					ND	
92 Styrene	104		9.209					ND	
95 Bromoform	173		9.464					ND	
93 2-Chlorobenzotrifluoride	180		9.494					ND	
94 Isopropylbenzene	105		9.562					ND	
96 Cyclohexanone	55		9.744					ND	
101 Bromobenzene	156		9.908					ND	
97 1,1,2,2-Tetrachloroethane	83		9.969					ND	
99 N-Propylbenzene	91		9.987					ND	
100 1,2,3-Trichloropropane	110		10.000					ND	
98 trans-1,4-Dichloro-2-buten	53		10.012					ND	
103 2-Chlorotoluene	126		10.091					ND	
104 3-Chlorotoluene	126		10.158					ND	
102 1,3,5-Trimethylbenzene	105		10.164					ND	
105 4-Chlorotoluene	126		10.200					ND	
106 tert-Butylbenzene	134		10.474					ND	
107 1,2,4-Trimethylbenzene	105		10.529					ND	
108 Pentachloroethane	167		10.541					ND	
109 sec-Butylbenzene	105		10.687					ND	
111 1,3-Dichlorobenzene	146		10.827					ND	
110 4-Isopropyltoluene	119		10.827					ND	
114 Dicyclopentadiene	66		10.888					ND	
113 1,4-Dichlorobenzene	146		10.912					ND	
112 1,2,3-Trimethylbenzene	105		10.936					ND	
150 Benzyl chloride	126		11.064					ND	
115 n-Butylbenzene	91		11.210					ND	
116 1,2-Dichlorobenzene	146		11.265					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.123					ND	
119 1,2,4-Trichlorobenzene	180		12.664					ND	
120 Hexachlorobutadiene	225		12.768					ND	
121 Naphthalene	128		12.877					ND	
122 1,2,3-Trichlorobenzene	180		13.078					ND	
149 2-Methylnaphthalene	142		13.789					ND	U
136 Nitrobenzene	77		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2619.D

Injection Date: 22-Jun-2018 21:52:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

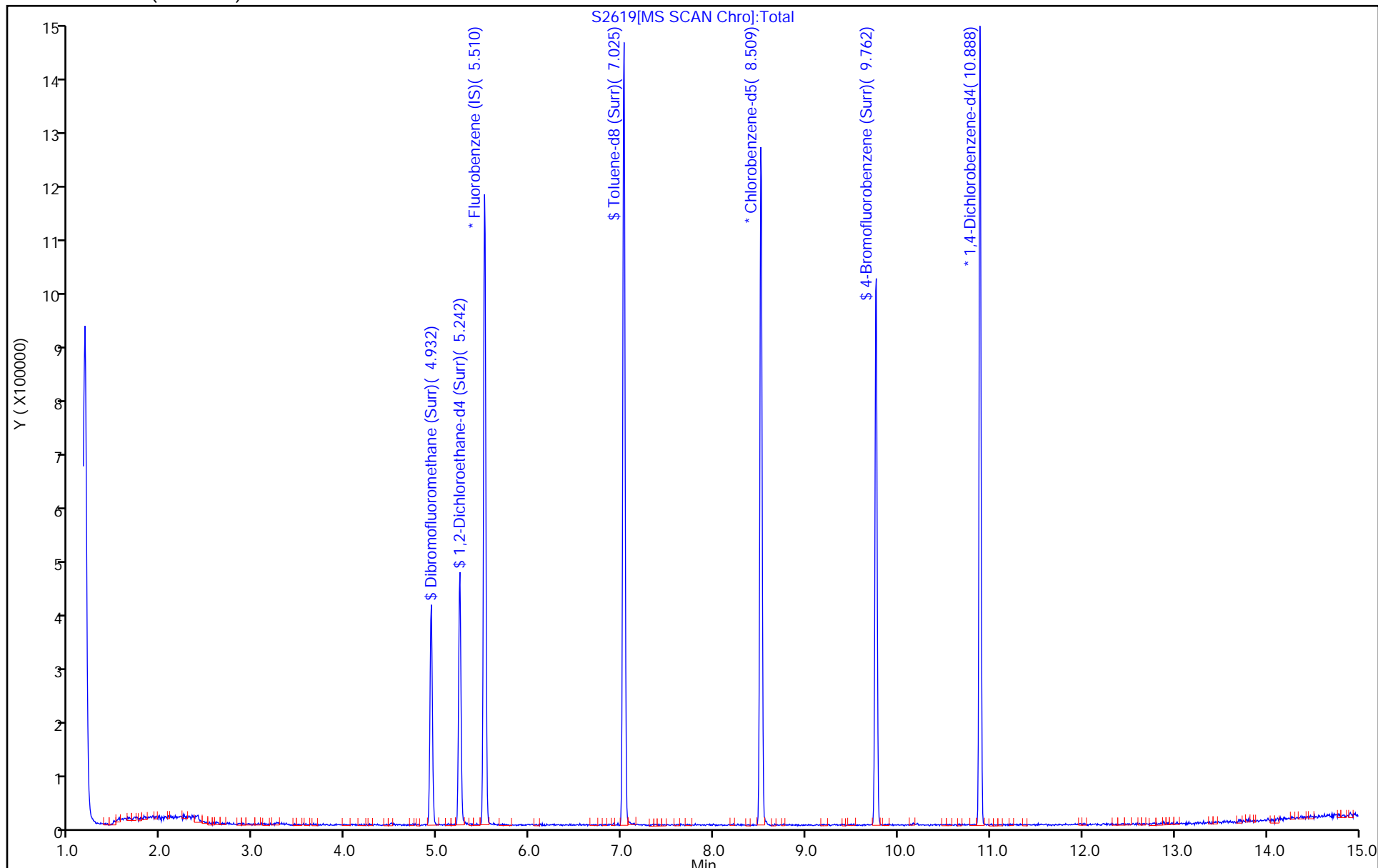
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421204/7
 Matrix: Water Lab File ID: S2646.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421204/7
 Matrix: Water Lab File ID: S2646.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-421204/7
 Matrix: Water Lab File ID: S2646.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2646.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 23-Jun-2018 11:54:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0072571-007
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 12:13:40 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner Date: 23-Jun-2018 12:13:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	349725	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.515	8.509	0.006	87	714901	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	671304	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.932	-0.006	59	445393	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	288810	25.0	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.030	0.001	94	1801864	25.0	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.769	0.000	88	537786	25.0	25.2	
10 Dichlorodifluoromethane	85		1.282					ND	
11 Chlorodifluoromethane	51		1.306					ND	
12 Chloromethane	50		1.470					ND	
13 Vinyl chloride	62		1.543					ND	
151 Butadiene	54		1.574					ND	
15 Chloroethane	64		1.963					ND	
17 Trichlorofluoromethane	101		2.194					ND	
18 Ethyl ether	59		2.492					ND	
148 Ethanol	45		2.523					ND	U
19 Propene oxide	58		2.584					ND	
20 Acrolein	56		2.681					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.693					ND	
22 1,1-Dichloroethene	96		2.723					ND	
23 Acetone	43		2.845					ND	
25 Iodomethane	142		2.894					ND	
26 Carbon disulfide	76		2.918					ND	
24 Isopropyl alcohol	45		3.040					ND	
28 3-Chloro-1-propene	41		3.088					ND	
27 Methyl acetate	43		3.143					ND	
29 Acetonitrile	40		3.161					ND	
31 2-Methyl-2-propanol	59		3.423					ND	
32 Methyl tert-butyl ether	73		3.454					ND	
34 trans-1,2-Dichloroethene	96		3.466					ND	
33 Acrylonitrile	53		3.539					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
35 Hexane	57		3.660					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.892					ND	
36 Isopropyl ether	45		3.904					ND	
40 2-Chloro-1,3-butadiene	53		3.946					ND	
37 Vinyl acetate	43		3.946					ND	
38 1,1-Dimethoxyethane	75		3.983					ND	
41 Tert-butyl ethyl ether	59		4.244					ND	
44 2,2-Dichloropropane	77		4.415					ND	
45 cis-1,2-Dichloroethene	96		4.457					ND	
43 2-Butanone (MEK)	43		4.494					ND	
46 Propionitrile	54		4.609					ND	
48 Chlorobromomethane	128		4.695					ND	
47 Methacrylonitrile	41		4.713					ND	
49 Tetrahydrofuran	42		4.713					ND	
50 Chloroform	83		4.774					ND	
51 1,1,1-Trichloroethane	97		4.877					ND	
52 Cyclohexane	56		4.883					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		5.011					ND	
54 1,1-Dichloropropene	75		5.029					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.224					ND	
57 Benzene	78		5.236					ND	
53 Isobutyl alcohol	43		5.266					ND	
58 1,2-Dichloroethane	62		5.309					ND	
56 Tert-amyl methyl ether	73		5.315					ND	
147 t-Amyl alcohol	59		5.315					ND	
59 n-Heptane	43		5.406					ND	
1 1,4-Difluorobenzene	114		5.619					ND	
62 Trichloroethene	95		5.850					ND	
60 n-Butanol	56		5.887					ND	
64 Methylcyclohexane	83		5.966					ND	
142 Ethyl acrylate	55		5.978					ND	
65 1,2-Dichloropropane	63		6.094					ND	
63 Methyl methacrylate	41		6.191					ND	
67 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.240					ND	
68 Dichlorobromomethane	83		6.386					ND	
70 2-Nitropropane	43		6.647					ND	
69 2-Chloroethyl vinyl ether	63		6.666					ND	
71 Epichlorohydrin	57		6.763					ND	
72 cis-1,3-Dichloropropene	75		6.806					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.952					ND	
74 Toluene	92		7.085					ND	
76 2-Methylthiophene	97		7.225					ND	
77 trans-1,3-Dichloropropene	75		7.377					ND	
78 3-Methylthiophene	97		7.396					ND	
75 Ethyl methacrylate	69		7.414					ND	
79 1,1,2-Trichloroethane	83		7.566					ND	
81 Tetrachloroethene	166		7.615					ND	
82 1,3-Dichloropropane	76		7.730					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43		7.791					ND	
155 n-Butyl acetate	43		7.894					ND	
83 Chlorodibromomethane	129		7.961					ND	
84 Ethylene Dibromide	107		8.071					ND	
146 1-Chlorohexane	55		8.485					ND	U
85 3-Chlorobenzotrifluoride	180		8.509					ND	
87 Chlorobenzene	112		8.539					ND	
86 4-Chlorobenzotrifluoride	180		8.570					ND	
88 Ethylbenzene	91		8.631					ND	
89 1,1,1,2-Tetrachloroethane	131		8.643					ND	
90 m-Xylene & p-Xylene	106		8.752					ND	
91 o-Xylene	106		9.178					ND	
92 Styrene	104		9.209					ND	
95 Bromoform	173		9.470					ND	
93 2-Chlorobenzotrifluoride	180		9.488					ND	
94 Isopropylbenzene	105		9.561					ND	
96 Cyclohexanone	55		9.738					ND	
101 Bromobenzene	156		9.908					ND	
97 1,1,2,2-Tetrachloroethane	83		9.969					ND	
99 N-Propylbenzene	91		9.987					ND	
100 1,2,3-Trichloropropane	110		9.999					ND	
98 trans-1,4-Dichloro-2-buten	53		10.018					ND	
103 2-Chlorotoluene	126		10.091					ND	
104 3-Chlorotoluene	126		10.158					ND	
102 1,3,5-Trimethylbenzene	105		10.164					ND	
105 4-Chlorotoluene	126		10.200					ND	
106 tert-Butylbenzene	134		10.474					ND	
107 1,2,4-Trimethylbenzene	105		10.529					ND	
108 Pentachloroethane	167		10.541					ND	
109 sec-Butylbenzene	105		10.687					ND	
111 1,3-Dichlorobenzene	146		10.821					ND	
110 4-Isopropyltoluene	119		10.827					ND	
114 Dicyclopentadiene	66		10.888					ND	
113 1,4-Dichlorobenzene	146		10.912					ND	
112 1,2,3-Trimethylbenzene	105		10.936					ND	
150 Benzyl chloride	126		11.058					ND	
116 1,2-Dichlorobenzene	146		11.265					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.123					ND	
119 1,2,4-Trichlorobenzene	180		12.664					ND	
120 Hexachlorobutadiene	225		12.767					ND	
121 Naphthalene	128		12.877					ND	
122 1,2,3-Trichlorobenzene	180		13.078					ND	
149 2-Methylnaphthalene	142		13.789					ND	
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2646.D

Injection Date: 23-Jun-2018 11:54:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

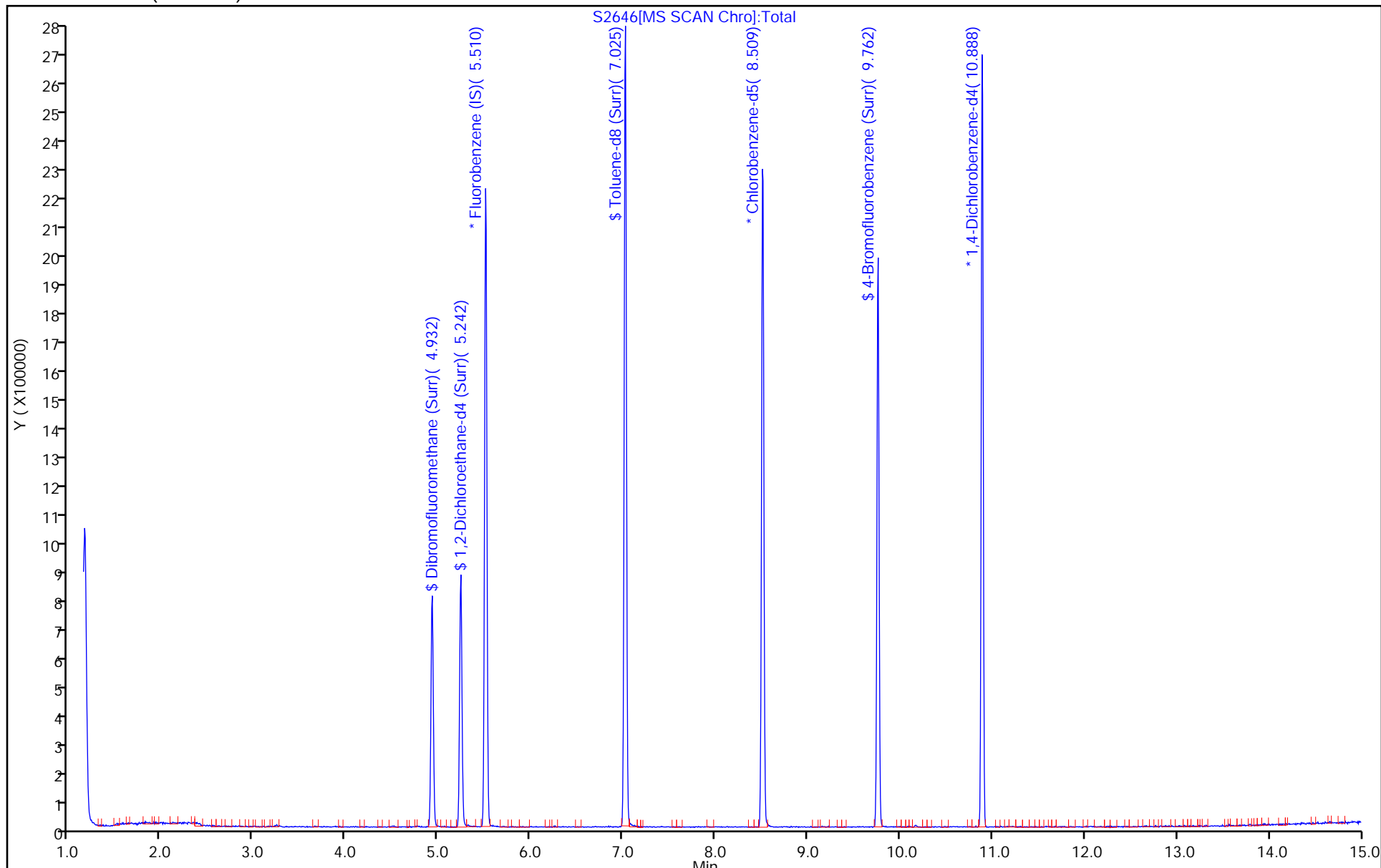
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-421186/4
 Matrix: Water Lab File ID: S2617.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 20:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	28.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.4		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.0		1.0	0.31
75-34-3	1,1-Dichloroethane	27.1		1.0	0.38
75-35-4	1,1-Dichloroethene	30.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.1		1.0	0.39
95-50-1	1,2-Dichlorobenzene	25.7		1.0	0.79
107-06-2	1,2-Dichloroethane	26.4		1.0	0.21
78-87-5	1,2-Dichloropropane	25.9		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.1		1.0	0.84
78-93-3	2-Butanone (MEK)	117		10	1.3
591-78-6	2-Hexanone	111		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	111		5.0	2.1
67-64-1	Acetone	107		10	3.0
71-43-2	Benzene	27.2		1.0	0.41
75-27-4	Bromodichloromethane	28.7		1.0	0.39
75-25-2	Bromoform	28.3		1.0	0.26
74-83-9	Bromomethane	23.1		1.0	0.69
75-15-0	Carbon disulfide	28.3		1.0	0.19
56-23-5	Carbon tetrachloride	31.0		1.0	0.27
108-90-7	Chlorobenzene	26.3		1.0	0.75
124-48-1	Dibromochloromethane	28.3		1.0	0.32
75-00-3	Chloroethane	24.2		1.0	0.32
67-66-3	Chloroform	25.9		1.0	0.34
74-87-3	Chloromethane	22.1		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.4		1.0	0.36
110-82-7	Cyclohexane	30.2		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.8		1.0	0.68
100-41-4	Ethylbenzene	27.1		1.0	0.74
106-93-4	1,2-Dibromoethane	25.0		1.0	0.73
98-82-8	Isopropylbenzene	27.2		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-421186/4
 Matrix: Water Lab File ID: S2617.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/22/2018 20:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	44.5		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.0		1.0	0.16
108-87-2	Methylcyclohexane	31.1		1.0	0.16
75-09-2	Methylene Chloride	24.3		1.0	0.44
100-42-5	Styrene	26.5		1.0	0.73
127-18-4	Tetrachloroethene	26.7		1.0	0.36
108-88-3	Toluene	26.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.1		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.3		1.0	0.37
79-01-6	Trichloroethene	27.7		1.0	0.46
75-69-4	Trichlorofluoromethane	26.6		1.0	0.88
75-01-4	Vinyl chloride	23.9		1.0	0.90
1330-20-7	Xylenes, Total	52.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2617.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 22-Jun-2018 20:53:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0072570-004
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Jun-2018 21:20:14 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: nowakk

Date: 22-Jun-2018 21:20:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	183838	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	385471	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	51	357366	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	228702	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.236	0.006	0	146068	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	91	928108	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	288615	25.0	25.0	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	86	201717	25.0	22.8	
12 Chloromethane	50	1.464	1.464	0.000	100	311195	25.0	22.1	
13 Vinyl chloride	62	1.549	1.549	0.000	94	299324	25.0	23.9	
151 Butadiene	54	1.580	1.580	0.000	81	301967	25.0	23.2	
14 Bromomethane	94	1.878	1.872	0.006	85	154929	25.0	23.1	
15 Chloroethane	64	1.975	1.981	-0.006	93	183558	25.0	24.2	
17 Trichlorofluoromethane	101	2.200	2.194	0.006	75	315214	25.0	26.6	
16 Dichlorofluoromethane	67	2.194	2.200	-0.006	95	369289	25.0	22.3	
18 Ethyl ether	59	2.492	2.492	0.000	91	275329	25.0	26.1	
20 Acrolein	56	2.687	2.687	0.000	98	236478	125.0	117.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	78	179793	25.0	25.0	
22 1,1-Dichloroethene	96	2.723	2.724	-0.001	91	245066	25.0	30.2	
23 Acetone	43	2.851	2.845	0.006	98	377026	125.0	106.6	
25 Iodomethane	142	2.900	2.888	0.012	97	355094	25.0	29.9	
26 Carbon disulfide	76	2.924	2.918	0.006	98	732950	25.0	28.3	
28 3-Chloro-1-propene	41	3.095	3.095	0.000	90	415093	25.0	26.4	
27 Methyl acetate	43	3.149	3.143	0.006	95	413628	50.0	44.5	
30 Methylene Chloride	84	3.253	3.253	0.000	96	261764	25.0	24.3	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	289749	250.0	241.8	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	91	790679	25.0	26.0	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	92	261294	25.0	28.1	
33 Acrylonitrile	53	3.539	3.539	0.000	100	1216505	250.0	246.5	
35 Hexane	57	3.660	3.660	0.000	84	495941	25.0	28.9	
39 1,1-Dichloroethane	63	3.898	3.898	0.000	97	529759	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.952	3.952	0.000	97	1219494	50.0	54.0	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	88	332160	25.0	30.6	
45 cis-1,2-Dichloroethene	96	4.457	4.451	0.006	82	293033	25.0	27.4	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	634659	125.0	116.9	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	138588	25.0	27.2	
49 Tetrahydrofuran	42	4.713	4.713	0.000	91	173774	50.0	46.6	
50 Chloroform	83	4.774	4.774	0.000	93	442905	25.0	25.9	
52 Cyclohexane	56	4.877	4.877	0.000	89	516771	25.0	30.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	366526	25.0	28.8	
55 Carbon tetrachloride	117	5.017	5.017	0.000	90	331138	25.0	31.0	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	95	364704	25.0	28.1	
57 Benzene	78	5.236	5.236	0.000	96	1060799	25.0	27.2	
53 Isobutyl alcohol	43	5.266	5.267	-0.001	96	299718	625.0	594.1	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	415272	25.0	26.4	
59 n-Heptane	43	5.412	5.406	0.006	89	434034	25.0	27.2	
62 Trichloroethene	95	5.850	5.851	-0.001	98	278943	25.0	27.7	
64 Methylcyclohexane	83	5.960	5.966	-0.006	93	476079	25.0	31.1	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	96	305135	25.0	25.9	
67 Dibromomethane	93	6.234	6.234	0.000	91	166715	25.0	27.1	
66 1,4-Dioxane	88	6.246	6.240	0.006	18	41855	500.0	491.1	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	339541	25.0	28.7	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	207606	25.0	26.4	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	88	407785	25.0	27.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1371679	125.0	111.5	
74 Toluene	92	7.091	7.086	0.005	94	682173	25.0	26.6	
77 trans-1,3-Dichloropropene	75	7.377	7.378	-0.001	94	384956	25.0	27.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	353598	25.0	25.6	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	196253	25.0	25.4	
81 Tetrachloroethene	166	7.621	7.621	0.000	89	289418	25.0	26.7	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	415154	25.0	25.5	
80 2-Hexanone	43	7.791	7.791	0.000	75	1003493	125.0	110.8	
83 Chlorodibromomethane	129	7.961	7.962	-0.001	88	248475	25.0	28.3	
84 Ethylene Dibromide	107	8.071	8.071	0.000	94	243263	25.0	25.0	
87 Chlorobenzene	112	8.539	8.540	-0.001	93	739213	25.0	26.3	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1250536	25.0	27.1	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.637	0.000	47	247863	25.0	27.3	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	487115	25.0	25.9	
91 o-Xylene	106	9.178	9.178	0.000	97	476102	25.0	26.7	
92 Styrene	104	9.209	9.209	0.000	93	811497	25.0	26.5	
95 Bromoform	173	9.464	9.464	0.000	96	158813	25.0	28.3	
94 Isopropylbenzene	105	9.561	9.562	-0.001	96	1227188	25.0	27.2	
101 Bromobenzene	156	9.908	9.908	0.000	95	298419	25.0	26.2	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	70	304456	25.0	24.9	
99 N-Propylbenzene	91	9.981	9.987	-0.006	99	1425618	25.0	27.3	
100 1,2,3-Trichloropropane	110	9.999	10.000	-0.001	71	100254	25.0	24.9	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	100984	25.0	23.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	288885	25.0	25.7	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	87	1054331	25.0	27.0	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	301707	25.0	26.2	
106 tert-Butylbenzene	134	10.474	10.474	0.000	92	239073	25.0	28.7	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1065293	25.0	26.7	
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1330452	25.0	28.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	569452	25.0	25.7	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1133110	25.0	28.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	91	589277	25.0	26.1	
115 n-Butylbenzene	91	11.210	11.210	0.000	94	1016494	25.0	27.9	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	560835	25.0	25.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	73	57240	25.0	24.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	407490	25.0	26.3	
120 Hexachlorobutadiene	225	12.767	12.768	-0.001	94	202826	25.0	27.4	
121 Naphthalene	128	12.877	12.877	0.000	97	1091360	25.0	25.7	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	386174	25.0	27.0	

Reagents:

8260 CORP mix_00127

Amount Added: 12.50

Units: uL

GAS CORP mix_00287

Amount Added: 12.50

Units: uL

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2617.D

Injection Date: 22-Jun-2018 20:53:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

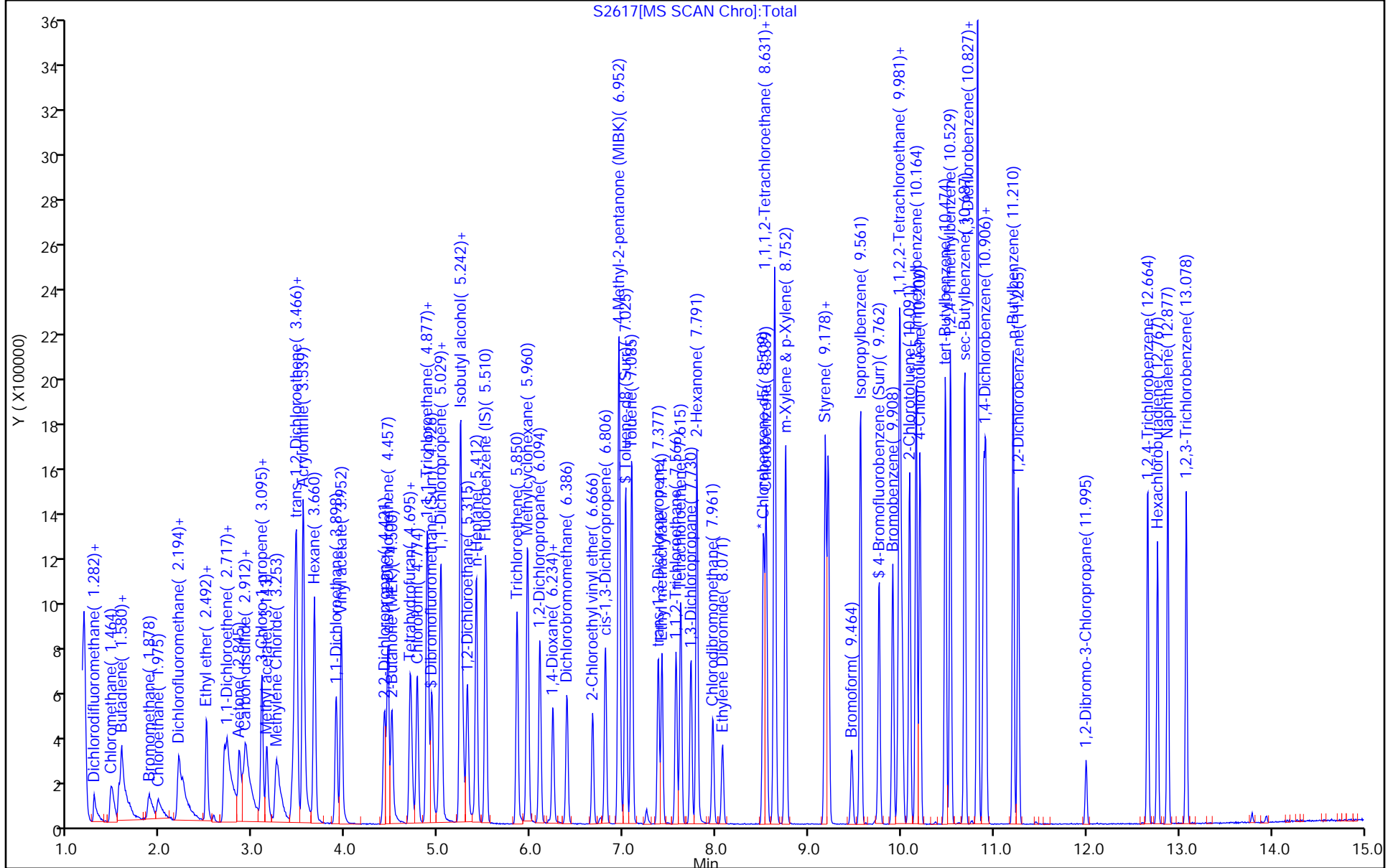
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



S2617[MS SCAN Chrom]:Total

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-421204/5
 Matrix: Water Lab File ID: S2644.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.5		1.0	0.31
75-34-3	1,1-Dichloroethane	24.5		1.0	0.38
75-35-4	1,1-Dichloroethene	25.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	24.2		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.5		1.0	0.79
107-06-2	1,2-Dichloroethane	23.9		1.0	0.21
78-87-5	1,2-Dichloropropane	23.9		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.9		1.0	0.84
78-93-3	2-Butanone (MEK)	118		10	1.3
591-78-6	2-Hexanone	111		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.1
67-64-1	Acetone	116		10	3.0
71-43-2	Benzene	24.9		1.0	0.41
75-27-4	Bromodichloromethane	25.5		1.0	0.39
75-25-2	Bromoform	25.9		1.0	0.26
74-83-9	Bromomethane	22.3		1.0	0.69
75-15-0	Carbon disulfide	24.2		1.0	0.19
56-23-5	Carbon tetrachloride	28.3		1.0	0.27
108-90-7	Chlorobenzene	25.1		1.0	0.75
124-48-1	Dibromochloromethane	26.9		1.0	0.32
75-00-3	Chloroethane	22.9		1.0	0.32
67-66-3	Chloroform	24.2		1.0	0.34
74-87-3	Chloromethane	20.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.9		1.0	0.36
110-82-7	Cyclohexane	27.7		1.0	0.18
75-71-8	Dichlorodifluoromethane	20.4		1.0	0.68
100-41-4	Ethylbenzene	25.9		1.0	0.74
106-93-4	1,2-Dibromoethane	23.2		1.0	0.73
98-82-8	Isopropylbenzene	26.5		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-421204/5
 Matrix: Water Lab File ID: S2644.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 11:07
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	43.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	27.4		1.0	0.16
75-09-2	Methylene Chloride	22.2		1.0	0.44
100-42-5	Styrene	25.1		1.0	0.73
127-18-4	Tetrachloroethene	25.7		1.0	0.36
108-88-3	Toluene	25.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.3		1.0	0.37
79-01-6	Trichloroethene	25.3		1.0	0.46
75-69-4	Trichlorofluoromethane	22.8		1.0	0.88
75-01-4	Vinyl chloride	22.4		1.0	0.90
1330-20-7	Xylenes, Total	49.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2644.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 23-Jun-2018 11:07:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0072571-005
 Operator ID: RB Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 11:25:43 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 11:25:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	195959	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	388813	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	55	353233	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	58	237654	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	150692	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	91	960531	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	291874	25.0	25.1	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	192924	25.0	20.4	
12 Chloromethane	50	1.470	1.470	0.000	99	313952	25.0	20.9	
13 Vinyl chloride	62	1.549	1.543	0.006	72	298952	25.0	22.4	
151 Butadiene	54	1.580	1.574	0.006	84	310211	25.0	22.3	
14 Bromomethane	94	1.884	1.860	0.024	85	159442	25.0	22.3	
15 Chloroethane	64	1.975	1.963	0.012	89	184824	25.0	22.9	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	91	288117	25.0	22.8	
16 Dichlorofluoromethane	67	2.200	2.194	0.006	96	389168	25.0	22.0	
18 Ethyl ether	59	2.492	2.492	0.000	92	265330	25.0	23.6	
20 Acrolein	56	2.687	2.681	0.006	98	235781	125.0	109.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.693	0.012	69	179832	25.0	23.5	
22 1,1-Dichloroethene	96	2.724	2.723	0.001	94	222016	25.0	25.6	
23 Acetone	43	2.851	2.845	0.006	99	436665	125.0	115.8	
25 Iodomethane	142	2.900	2.894	0.006	96	333240	25.0	26.3	
26 Carbon disulfide	76	2.924	2.918	0.006	97	667201	25.0	24.2	
28 3-Chloro-1-propene	41	3.095	3.088	0.007	88	401607	25.0	23.9	
27 Methyl acetate	43	3.143	3.143	0.000	95	426960	50.0	43.1	
30 Methylene Chloride	84	3.259	3.247	0.012	92	256662	25.0	22.2	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	359942	250.0	281.8	
32 Methyl tert-butyl ether	73	3.448	3.454	-0.006	92	763226	25.0	23.5	
34 trans-1,2-Dichloroethene	96	3.466	3.466	0.000	93	250421	25.0	25.3	
33 Acrylonitrile	53	3.539	3.539	0.000	99	1263464	250.0	240.2	
35 Hexane	57	3.660	3.660	0.000	88	478284	25.0	26.2	
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	511226	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.952	3.946	0.006	97	1158952	50.0	48.2	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	90	313925	25.0	27.1	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	85	288038	25.0	25.3	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	682895	125.0	118.0	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	134044	25.0	24.6	
49 Tetrahydrofuran	42	4.713	4.713	0.000	87	185057	50.0	46.5	
50 Chloroform	83	4.774	4.774	0.000	92	441029	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	346819	25.0	25.6	
52 Cyclohexane	56	4.883	4.883	0.000	89	506151	25.0	27.7	
55 Carbon tetrachloride	117	5.017	5.011	0.006	87	321628	25.0	28.3	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	95	346754	25.0	25.1	
57 Benzene	78	5.236	5.236	0.000	96	1034390	25.0	24.9	
53 Isobutyl alcohol	43	5.267	5.266	0.001	95	350912	625.0	652.6	
58 1,2-Dichloroethane	62	5.315	5.309	0.006	79	400965	25.0	23.9	
59 n-Heptane	43	5.406	5.406	0.000	91	428135	25.0	25.2	
62 Trichloroethene	95	5.851	5.850	0.001	97	271026	25.0	25.3	
64 Methylcyclohexane	83	5.960	5.966	-0.006	93	447577	25.0	27.4	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	299526	25.0	23.9	
67 Dibromomethane	93	6.234	6.234	0.000	91	160396	25.0	24.5	
66 1,4-Dioxane	88	6.234	6.240	-0.006	40	46425	500.0	538.7	
68 Dichlorobromomethane	83	6.392	6.386	0.006	98	321261	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	199566	25.0	23.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	394186	25.0	24.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.952	0.000	94	1352142	125.0	108.9	
74 Toluene	92	7.086	7.086	0.001	94	652905	25.0	25.3	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.001	94	360136	25.0	25.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	326758	25.0	23.4	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	189413	25.0	24.3	
81 Tetrachloroethene	166	7.621	7.615	0.006	87	279955	25.0	25.7	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	93	396781	25.0	24.2	
80 2-Hexanone	43	7.791	7.791	0.000	90	1010740	125.0	110.6	
83 Chlorodibromomethane	129	7.962	7.962	0.001	90	238510	25.0	26.9	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	98	227577	25.0	23.2	
87 Chlorobenzene	112	8.539	8.540	0.000	94	711111	25.0	25.1	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1207313	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	239447	25.0	26.1	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	466119	25.0	24.6	
91 o-Xylene	106	9.178	9.178	0.000	97	440835	25.0	24.5	
92 Styrene	104	9.209	9.209	0.000	94	774949	25.0	25.1	
95 Bromoform	173	9.464	9.470	-0.006	94	146461	25.0	25.9	
94 Isopropylbenzene	105	9.562	9.562	0.001	96	1177972	25.0	26.5	
101 Bromobenzene	156	9.908	9.908	0.000	94	291161	25.0	25.8	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	68	286244	25.0	23.7	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	1395555	25.0	27.0	
100 1,2,3-Trichloropropane	110	10.000	10.000	0.001	69	95527	25.0	24.0	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.018	-0.006	81	103094	25.0	23.9	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	278452	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	86	1003006	25.0	26.0	
105 4-Chlorotoluene	126	10.200	10.200	0.000	81	293380	25.0	25.8	
106 tert-Butylbenzene	134	10.480	10.474	0.006	92	226297	25.0	27.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	72	1029729	25.0	26.1	
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	1276616	25.0	27.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.827	10.821	0.006	71	557925	25.0	25.5	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1092361	25.0	27.4	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	555001	25.0	24.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1005498	25.0	28.0	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	91	528881	25.0	24.5	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	70	56740	25.0	24.2	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	403328	25.0	26.3	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	97	201532	25.0	27.5	
121 Naphthalene	128	12.877	12.877	0.000	97	1031976	25.0	24.6	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	93	373532	25.0	26.4	

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180623-72571.b\S2644.D

Injection Date: 23-Jun-2018 11:07:30

Instrument ID: HP5973S

Operator ID: RB

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

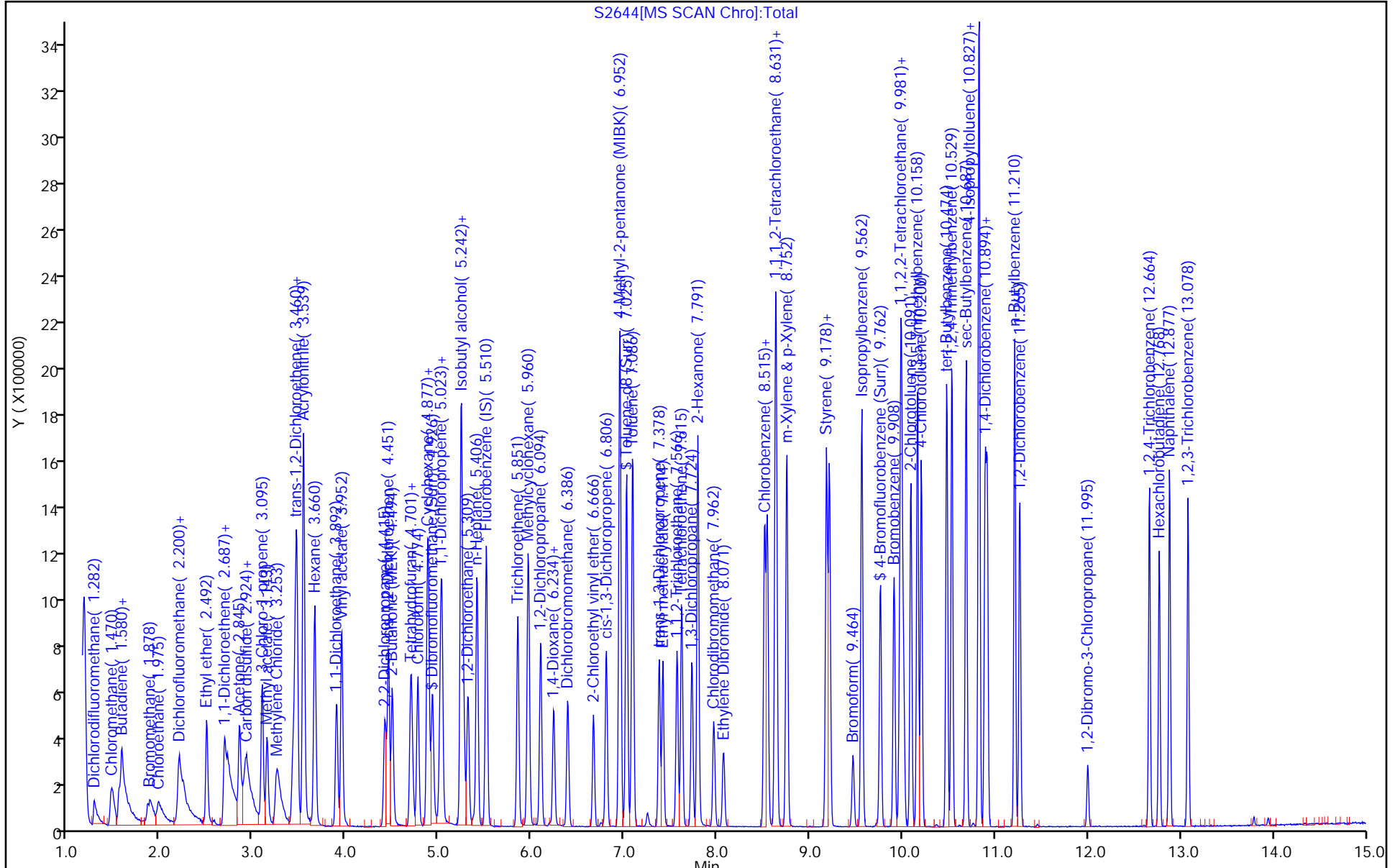
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



S2644[MS SCAN Chrom]:Total

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D MS Lab Sample ID: 480-137605-1 MS
 Matrix: Water Lab File ID: S2638.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 06:52
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	149		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	128		5.0	1.1
79-00-5	1,1,2-Trichloroethane	128		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	145		5.0	1.6
75-34-3	1,1-Dichloroethane	185		5.0	1.9
75-35-4	1,1-Dichloroethene	157		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	138		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	132		5.0	2.0
95-50-1	1,2-Dichlorobenzene	130		5.0	4.0
107-06-2	1,2-Dichloroethane	132		5.0	1.1
78-87-5	1,2-Dichloropropane	133		5.0	3.6
541-73-1	1,3-Dichlorobenzene	133		5.0	3.9
106-46-7	1,4-Dichlorobenzene	132		5.0	4.2
78-93-3	2-Butanone (MEK)	662		50	6.6
591-78-6	2-Hexanone	581		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	594		25	11
67-64-1	Acetone	626		50	15
71-43-2	Benzene	159		5.0	2.1
75-27-4	Bromodichloromethane	143		5.0	2.0
75-25-2	Bromoform	147		5.0	1.3
74-83-9	Bromomethane	124		5.0	3.5
75-15-0	Carbon disulfide	144		5.0	0.95
56-23-5	Carbon tetrachloride	158		5.0	1.4
108-90-7	Chlorobenzene	138		5.0	3.8
124-48-1	Dibromochloromethane	143		5.0	1.6
75-00-3	Chloroethane	144		5.0	1.6
67-66-3	Chloroform	132		5.0	1.7
74-87-3	Chloromethane	122		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	144		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	133		5.0	1.8
110-82-7	Cyclohexane	162		5.0	0.90
75-71-8	Dichlorodifluoromethane	137		5.0	3.4
100-41-4	Ethylbenzene	150		5.0	3.7
106-93-4	1,2-Dibromoethane	132		5.0	3.7
98-82-8	Isopropylbenzene	165		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D MS Lab Sample ID: 480-137605-1 MS
 Matrix: Water Lab File ID: S2638.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 06:52
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	241		13	6.5
1634-04-4	Methyl tert-butyl ether	163		5.0	0.80
108-87-2	Methylcyclohexane	158		5.0	0.80
75-09-2	Methylene Chloride	117		5.0	2.2
100-42-5	Styrene	136		5.0	3.7
127-18-4	Tetrachloroethene	138		5.0	1.8
108-88-3	Toluene	143		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	142		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	132		5.0	1.9
79-01-6	Trichloroethene	142		5.0	2.3
75-69-4	Trichlorofluoromethane	148		5.0	4.4
75-01-4	Vinyl chloride	138		5.0	4.5
1330-20-7	Xylenes, Total	358		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2638.D
 Lims ID: 480-137605-A-1 MS
 Client ID: ML-2-D
 Sample Type: MS
 Inject. Date: 23-Jun-2018 06:52:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-A-1 MS
 Misc. Info.: 480-0072570-026
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 14:24:03 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 14:25:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	187690	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	84	383132	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	54	355214	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	56	228493	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.236	0.006	0	150144	25.0	25.5	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	91	922586	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	283842	25.0	24.8	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	86	248553	25.0	27.5	
12 Chloromethane	50	1.458	1.464	-0.006	91	351553	25.0	24.5	
13 Vinyl chloride	62	1.550	1.549	0.001	80	351728	25.0	27.5	
14 Bromomethane	94	1.860	1.872	-0.012	90	170304	25.0	24.9	
15 Chloroethane	64	1.963	1.987	-0.018	95	222003	25.0	28.7	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	78	358338	25.0	29.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	69	213821	25.0	29.0	
22 1,1-Dichloroethene	96	2.724	2.735	0.000	96	260521	25.0	31.4	
23 Acetone	43	2.845	2.863	0.000	99	452120	125.0	125.2	
26 Carbon disulfide	76	2.918	2.918	0.000	98	759651	25.0	28.7	
27 Methyl acetate	43	3.143	3.143	0.000	94	456137	50.0	48.1	
30 Methylene Chloride	84	3.253	3.253	0.000	95	257676	25.0	23.4	
32 Methyl tert-butyl ether	73	3.448	3.453	-0.006	91	1010047	25.0	32.5	
34 trans-1,2-Dichloroethene	96	3.466	3.466	0.000	90	269178	25.0	28.4	
39 1,1-Dichloroethane	63	3.892	3.898	-0.006	96	740677	25.0	37.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.006	80	314518	25.0	28.8	
43 2-Butanone (MEK)	43	4.494	4.512	0.000	94	734243	125.0	132.4	
50 Chloroform	83	4.768	4.774	-0.006	92	459775	25.0	26.4	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	88	388192	25.0	29.9	
52 Cyclohexane	56	4.877	4.883	0.000	89	565083	25.0	32.3	
55 Carbon tetrachloride	117	5.011	5.017	-0.006	92	345093	25.0	31.7	
57 Benzene	78	5.236	5.236	0.000	97	1266777	25.0	31.8	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	80	425436	25.0	26.4	
62 Trichloroethene	95	5.845	5.850	-0.007	96	292669	25.0	28.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	93	494070	25.0	31.6	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	319199	25.0	26.6	
68 Dichlorobromomethane	83	6.386	6.386	0.000	97	345537	25.0	28.6	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	92	404805	25.0	26.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.945	0.000	94	1452470	125.0	118.7	
74 Toluene	92	7.086	7.092	0.000	94	729122	25.0	28.6	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.000	95	369163	25.0	26.3	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	196597	25.0	25.6	
81 Tetrachloroethene	166	7.615	7.621	-0.006	85	296557	25.0	27.6	
80 2-Hexanone	43	7.791	7.797	0.000	90	1045467	125.0	116.1	
83 Chlorodibromomethane	129	7.962	7.962	0.000	90	249152	25.0	28.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	255225	25.0	26.4	
87 Chlorobenzene	112	8.540	8.539	0.000	93	770510	25.0	27.6	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1372592	25.0	29.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	794038		42.5	
91 o-Xylene	106	9.178	9.172	0.000	98	513160		29.0	
92 Styrene	104	9.209	9.209	0.000	93	828838	25.0	27.3	
95 Bromoform	173	9.464	9.464	0.000	95	163490	25.0	29.3	
94 Isopropylbenzene	105	9.562	9.562	0.000	96	1474588	25.0	32.9	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	69	310795	25.0	25.5	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	587595	25.0	26.7	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	594217	25.0	26.5	
116 1,2-Dichlorobenzene	146	11.265	11.259	0.000	92	565088	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	72	62288	25.0	26.4	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	426262	25.0	27.7	
S 124 Xylenes, Total	1				0			71.5	

Reagents:

8260 CORP mix_00127

Amount Added: 12.50

Units: uL

GAS CORP mix_00287

Amount Added: 12.50

Units: uL

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2638.D

Injection Date: 23-Jun-2018 06:52:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: 480-137605-A-1 MS

Worklist Smp#: 26

Client ID: ML-2-D

Purge Vol: 5.000 mL

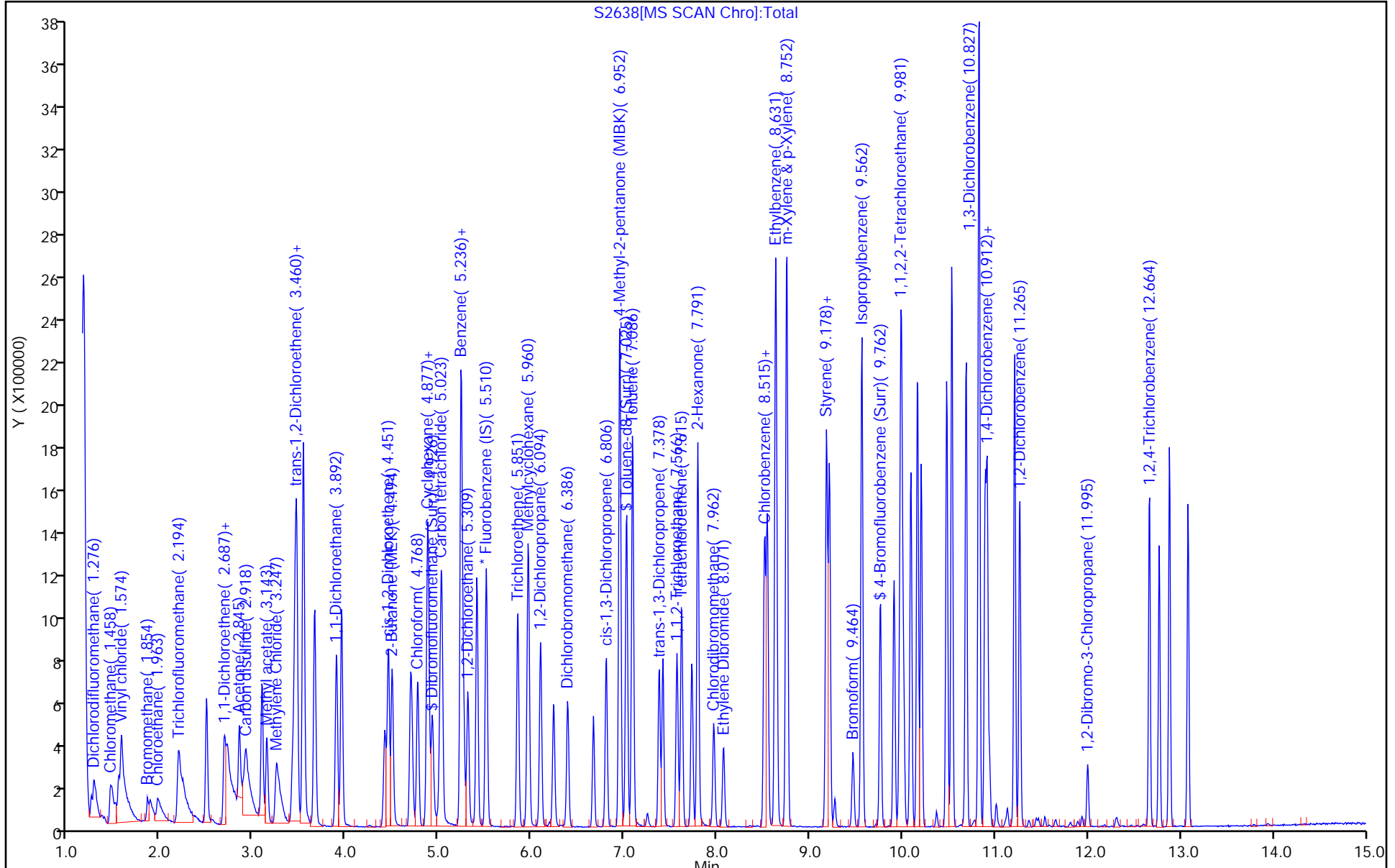
Dil. Factor: 5.0000

ALS Bottle#: 25

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D MSD Lab Sample ID: 480-137605-1 MSD
 Matrix: Water Lab File ID: S2639.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 07:15
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	142		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	129		5.0	1.1
79-00-5	1,1,2-Trichloroethane	126		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	127		5.0	1.6
75-34-3	1,1-Dichloroethane	173		5.0	1.9
75-35-4	1,1-Dichloroethene	137		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	133		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	132		5.0	2.0
95-50-1	1,2-Dichlorobenzene	131		5.0	4.0
107-06-2	1,2-Dichloroethane	123		5.0	1.1
78-87-5	1,2-Dichloropropane	123		5.0	3.6
541-73-1	1,3-Dichlorobenzene	131		5.0	3.9
106-46-7	1,4-Dichlorobenzene	130		5.0	4.2
78-93-3	2-Butanone (MEK)	636		50	6.6
591-78-6	2-Hexanone	566		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	588		25	11
67-64-1	Acetone	613		50	15
71-43-2	Benzene	148		5.0	2.1
75-27-4	Bromodichloromethane	139		5.0	2.0
75-25-2	Bromoform	144		5.0	1.3
74-83-9	Bromomethane	114		5.0	3.5
75-15-0	Carbon disulfide	130		5.0	0.95
56-23-5	Carbon tetrachloride	140		5.0	1.4
108-90-7	Chlorobenzene	132		5.0	3.8
124-48-1	Dibromochloromethane	139		5.0	1.6
75-00-3	Chloroethane	127		5.0	1.6
67-66-3	Chloroform	121		5.0	1.7
74-87-3	Chloromethane	109		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	136		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	128		5.0	1.8
110-82-7	Cyclohexane	136		5.0	0.90
75-71-8	Dichlorodifluoromethane	117		5.0	3.4
100-41-4	Ethylbenzene	142		5.0	3.7
106-93-4	1,2-Dibromoethane	123		5.0	3.7
98-82-8	Isopropylbenzene	159		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D MSD Lab Sample ID: 480-137605-1 MSD
 Matrix: Water Lab File ID: S2639.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 07:15
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	235		13	6.5
1634-04-4	Methyl tert-butyl ether	157		5.0	0.80
108-87-2	Methylcyclohexane	146		5.0	0.80
75-09-2	Methylene Chloride	114		5.0	2.2
100-42-5	Styrene	130		5.0	3.7
127-18-4	Tetrachloroethene	135		5.0	1.8
108-88-3	Toluene	141		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	134		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	132		5.0	1.9
79-01-6	Trichloroethene	128		5.0	2.3
75-69-4	Trichlorofluoromethane	133		5.0	4.4
75-01-4	Vinyl chloride	118		5.0	4.5
1330-20-7	Xylenes, Total	338		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2639.D
 Lims ID: 480-137605-A-1 MSD
 Client ID: ML-2-D
 Sample Type: MSD
 Inject. Date: 23-Jun-2018 07:15:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 480-137605-A-1 MSD
 Misc. Info.: 480-0072570-027
 Operator ID: kn Instrument ID: HP5973S
 Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Jun-2018 14:24:03 Calib Date: 20-Jun-2018 20:51:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: baroner

Date: 23-Jun-2018 14:25:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	193127	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	82	385128	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	56	349172	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	56	230787	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.236	0.006	0	155582	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.001	91	931726	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	284578	25.0	24.7	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	96	217510	25.0	23.4	
12 Chloromethane	50	1.470	1.464	0.006	98	320950	25.0	21.7	
13 Vinyl chloride	62	1.549	1.549	0.000	96	311101	25.0	23.7	
14 Bromomethane	94	1.884	1.872	0.012	90	160055	25.0	22.7	
15 Chloroethane	64	1.981	1.987	0.000	95	202098	25.0	25.4	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	92	331468	25.0	26.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	78	191606	25.0	25.3	
22 1,1-Dichloroethene	96	2.724	2.735	0.000	93	232900	25.0	27.3	
23 Acetone	43	2.845	2.863	0.000	99	455709	125.0	122.6	
26 Carbon disulfide	76	2.924	2.918	0.006	98	709211	25.0	26.1	
27 Methyl acetate	43	3.143	3.143	0.000	95	457893	50.0	46.9	
30 Methylene Chloride	84	3.253	3.253	0.000	97	259583	25.0	22.9	
32 Methyl tert-butyl ether	73	3.454	3.453	0.000	91	1003474	25.0	31.4	
34 trans-1,2-Dichloroethene	96	3.472	3.466	0.006	93	262576	25.0	26.9	
39 1,1-Dichloroethane	63	3.892	3.898	-0.006	96	713308	25.0	34.7	
45 cis-1,2-Dichloroethene	96	4.451	4.457	0.000	81	304055	25.0	27.1	
43 2-Butanone (MEK)	43	4.494	4.512	0.000	94	725640	125.0	127.2	
50 Chloroform	83	4.774	4.774	0.000	93	434147	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	91	380495	25.0	28.5	
52 Cyclohexane	56	4.883	4.883	0.006	90	488042	25.0	27.1	
55 Carbon tetrachloride	117	5.011	5.017	-0.006	92	312977	25.0	27.9	
57 Benzene	78	5.236	5.236	0.000	97	1211888	25.0	29.6	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	80	407859	25.0	24.6	
62 Trichloroethene	95	5.851	5.850	0.000	95	270397	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.960	5.966	-0.006	93	470801	25.0	29.2	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	304663	25.0	24.6	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	345516	25.0	27.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	92	401240	25.0	25.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.952	6.945	0.000	94	1446549	125.0	117.6	
74 Toluene	92	7.086	7.092	0.000	93	721028	25.0	28.2	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.000	94	372126	25.0	26.4	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	194311	25.0	25.2	
81 Tetrachloroethene	166	7.621	7.621	0.000	84	291541	25.0	27.0	
80 2-Hexanone	43	7.791	7.797	0.000	89	1024573	125.0	113.2	
83 Chlorodibromomethane	129	7.968	7.962	0.006	90	243945	25.0	27.8	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	239864	25.0	24.7	
87 Chlorobenzene	112	8.540	8.539	0.000	93	737920	25.0	26.3	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1306169	25.0	28.3	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	750492		40.0	
91 o-Xylene	106	9.178	9.172	0.000	97	491149		27.6	
92 Styrene	104	9.209	9.209	0.000	92	796558	25.0	26.1	
95 Bromoform	173	9.470	9.464	0.006	97	161462	25.0	28.8	
94 Isopropylbenzene	105	9.562	9.562	0.000	96	1401367	25.0	31.8	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	69	308981	25.0	25.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	566568	25.0	26.2	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	571936	25.0	25.9	
116 1,2-Dichlorobenzene	146	11.265	11.259	0.000	93	557016	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	78	61221	25.0	26.4	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	403988	25.0	26.7	
S 124 Xylenes, Total	1				0			67.6	

Reagents:

8260 CORP mix_00127

Amount Added: 12.50

Units: uL

GAS CORP mix_00287

Amount Added: 12.50

Units: uL

S_8260_IS_00292

Amount Added: 1.00

Units: uL

Run Reagent

S_8260_Surr_00271

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180622-72570.b\S2639.D

Injection Date: 23-Jun-2018 07:15:30

Instrument ID: HP5973S

Operator ID: kn

Lims ID: 480-137605-A-1 MSD

Worklist Smp#: 27

Client ID: ML-2-D

Purge Vol: 5.000 mL

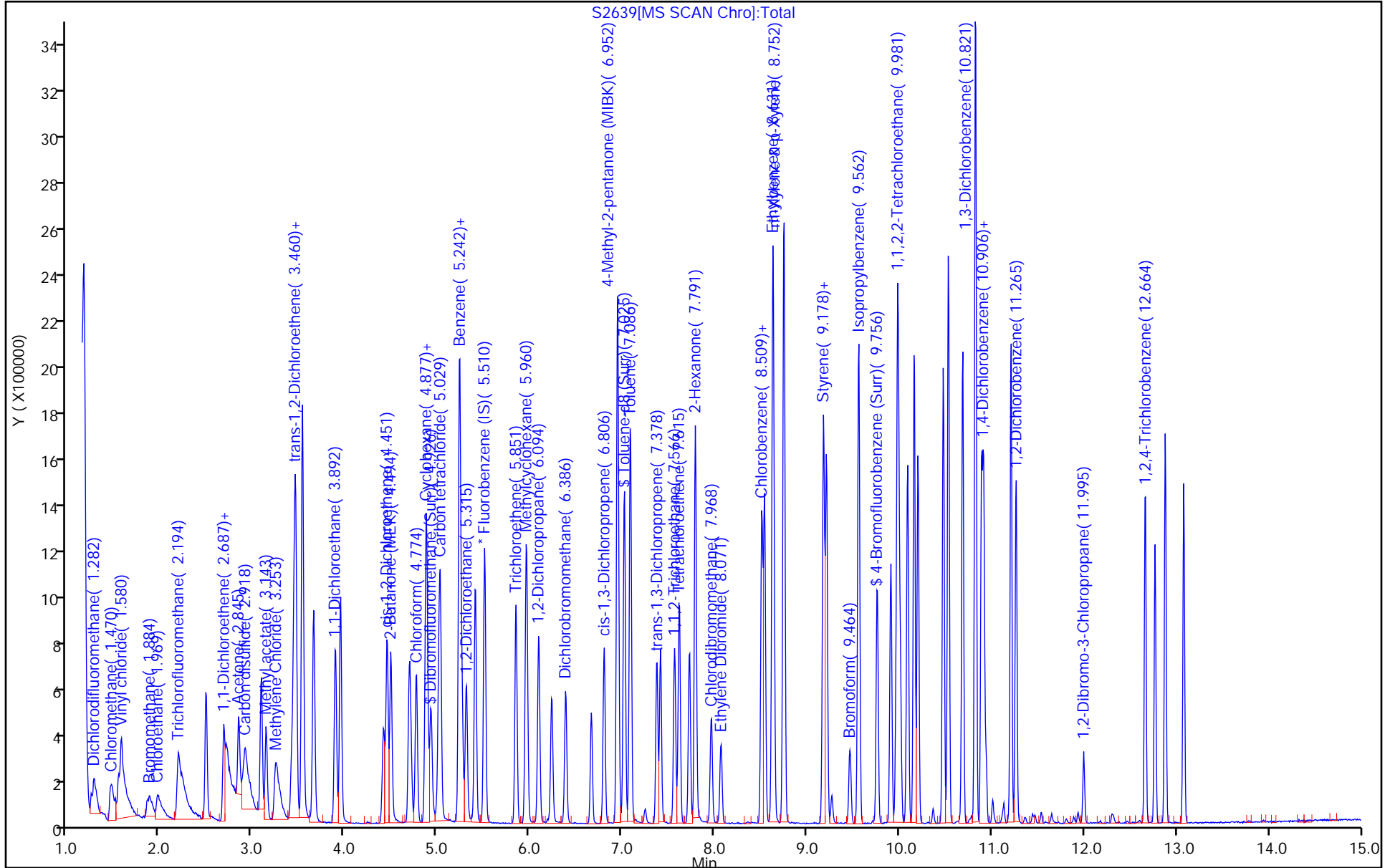
Dil. Factor: 5.0000

ALS Bottle#: 26

Method: S-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Instrument ID: HP5973S Start Date: 06/20/2018 12:54

Analysis Batch Number: 420621 End Date: 06/20/2018 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420621/3		06/20/2018 12:54	1	S2504.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/5		06/20/2018 13:51	1	S2506.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/6		06/20/2018 14:14	1	S2507.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/7		06/20/2018 14:38	1	S2508.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/8		06/20/2018 15:01	1	S2509.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/9		06/20/2018 15:24	1	S2510.D	ZB-624 (20) 0.18 (mm)
ICIS 480-420621/10		06/20/2018 15:48	1	S2511.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/11		06/20/2018 16:11	1	S2512.D	ZB-624 (20) 0.18 (mm)
IC 480-420621/12		06/20/2018 16:34	1	S2513.D	ZB-624 (20) 0.18 (mm)
MDLV 480-420621/14		06/20/2018 17:21	1		ZB-624 (20) 0.18 (mm)
MDLV 480-420621/15		06/20/2018 17:44	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/17		06/20/2018 18:31	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/18		06/20/2018 18:54	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/19		06/20/2018 19:17	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/20		06/20/2018 19:41	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/21		06/20/2018 20:04	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/22		06/20/2018 20:27	1		ZB-624 (20) 0.18 (mm)
IC 480-420621/23		06/20/2018 20:51	1		ZB-624 (20) 0.18 (mm)
MDLV 480-420621/25		06/20/2018 21:37	1		ZB-624 (20) 0.18 (mm)
ICV 480-420621/26		06/20/2018 22:01	1		ZB-624 (20) 0.18 (mm)
ICV 480-420621/27		06/20/2018 22:24	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137605-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 06/22/2018 19:38Analysis Batch Number: 421186End Date: 06/23/2018 07:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-421186/1		06/22/2018 19:38	1	S2614.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-421186/2		06/22/2018 20:06	1	S2615.D	ZB-624 (20) 0.18 (mm)
CCV 480-421186/3		06/22/2018 20:29	1		ZB-624 (20) 0.18 (mm)
LCS 480-421186/4		06/22/2018 20:53	1	S2617.D	ZB-624 (20) 0.18 (mm)
MB 480-421186/6		06/22/2018 21:52	1	S2619.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 00:16	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 00:40	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 01:03	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 01:26	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 01:49	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 02:13	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 02:36	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 02:59	10		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 03:22	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 03:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 04:09	1		ZB-624 (20) 0.18 (mm)
480-137605-1		06/23/2018 04:32	5	S2632.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 04:56	40		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 05:19	40		ZB-624 (20) 0.18 (mm)
480-137605-4		06/23/2018 05:42	1	S2635.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 06:05	10		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 06:29	10		ZB-624 (20) 0.18 (mm)
480-137605-1 MS		06/23/2018 06:52	5	S2638.D	ZB-624 (20) 0.18 (mm)
480-137605-1 MSD		06/23/2018 07:15	5	S2639.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137605-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 06/23/2018 09:52Analysis Batch Number: 421204End Date: 06/23/2018 23:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-421204/2		06/23/2018 09:52	1	S2641.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-421204/3		06/23/2018 10:20	1	S2642.D	ZB-624 (20) 0.18 (mm)
CCV 480-421204/4		06/23/2018 10:44	1		ZB-624 (20) 0.18 (mm)
LCS 480-421204/5		06/23/2018 11:07	1	S2644.D	ZB-624 (20) 0.18 (mm)
RL 480-421204/6		06/23/2018 11:30	1		ZB-624 (20) 0.18 (mm)
MB 480-421204/7		06/23/2018 11:54	1	S2646.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 12:37	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 13:01	25		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 13:24	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 13:47	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 14:10	10		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 14:34	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 14:57	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 15:20	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 15:43	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 16:07	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 16:30	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 16:53	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 17:16	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 17:40	1		ZB-624 (20) 0.18 (mm)
480-137605-2		06/23/2018 18:03	5	S2661.D	ZB-624 (20) 0.18 (mm)
480-137605-3		06/23/2018 18:26	5	S2662.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 18:50	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 19:13	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 19:36	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 19:59	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 21:09	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 21:32	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 21:56	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 22:19	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 22:42	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/23/2018 23:05	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 421186 Batch Start Date: 06/22/18 19:38 Batch Analyst: Barone, Rachel L

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00127	BFB_WRK 00071	GAS CORP mix 00287
BFB 480-421186/1		8260C		1 uL	1 uL			1 uL	
CCVIS 480-421186/2		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-421186/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-421186/6		8260C		5 mL	5 mL				
480-137605-F-1	ML-2-D	8260C	T	5 mL	5 mL	4 SU			
480-137605-A-4	TB	8260C	T	5 mL	5 mL	<2 SU			
480-137605-A-1 MS	ML-2-D	8260C	T	5 mL	5 mL	4 SU	12.5 uL		12.5 uL
480-137605-A-1 MSD	ML-2-D	8260C	T	5 mL	5 mL	4 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00292	S_8260_Surr 00271				
BFB 480-421186/1		8260C							
CCVIS 480-421186/2		8260C		1 uL	1 uL				
LCS 480-421186/4		8260C		1 uL	1 uL				
MB 480-421186/6		8260C		1 uL	1 uL				
480-137605-F-1	ML-2-D	8260C	T	1 uL	1 uL				
480-137605-A-4	TB	8260C	T	1 uL	1 uL				
480-137605-A-1 MS	ML-2-D	8260C	T	1 uL	1 uL				
480-137605-A-1 MSD	ML-2-D	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 421204 Batch Start Date: 06/23/18 09:52 Batch Analyst: Nowak, Kate-Lynn M

Batch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00127	BFB_WRK 00071	GAS CORP mix 00287
BFB 480-421204/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-421204/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-421204/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-421204/7		8260C		5 mL	5 mL				
480-137605-B-2	DUPE	8260C	T	5 mL	5 mL	<2 SU			
480-137605-G-3	ML-2-I	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00292	S_8260_Surr 00271	AnalysisComment			
BFB 480-421204/2		8260C							
CCVIS 480-421204/3		8260C		1 uL	1 uL				
LCS 480-421204/5		8260C		1 uL	1 uL				
MB 480-421204/7		8260C		1 uL	1 uL				
480-137605-B-2	DUPE	8260C	T	1 uL	1 uL	Foam			
480-137605-G-3	ML-2-I	8260C	T	1 uL	1 uL	Foam			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_045.D
 Lab ID: LCS 480-420316/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	13.1	90	79-120	
Ethene	13.6	12.0	88	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_12_046.D

Lab ID: LCSD 480-420316/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethane	14.6	13.8	95	6	50	79-120	
Ethene	13.6	12.8	94	6	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: MB 480-420316/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_12_044.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/19/2018 09:55 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-420316/5	06/19/2018 10:12	
	LCSD 480-420316/6	06/19/2018 10:30	
ML-2-I	480-137605-3	06/19/2018 13:04	
ML-2-D	480-137605-1	06/19/2018 14:49	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: 21_12_058.D
 Analysis Method: RSK-175 Date Collected: 06/15/2018 12:45
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 14:49
 Soil Aliquot Vol: _____ Dilution Factor: 11
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	160		83	17
74-85-1	Ethene	140		77	17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_058.D
 Lims ID: 480-137605-J-1
 Client ID: ML-2-D
 Sample Type: Client
 Inject. Date: 19-Jun-2018 14:49:03 ALS Bottle#: 0 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 11.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 15:23:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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2 Ethane

1	1.750	1.753	-0.003	29861	14.4	
2	1.543	1.547	-0.004	39317	14.2	

3 Ethylene

1	2.413	2.437	-0.024	24542	12.8	
2	1.463	1.467	-0.004	32257	12.7	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_058.D

Injection Date: 19-Jun-2018 14:49:03

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-137605-J-1

Lab Sample ID: 480-137605-1

Worklist Smp#: 18

Client ID: ML-2-D

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

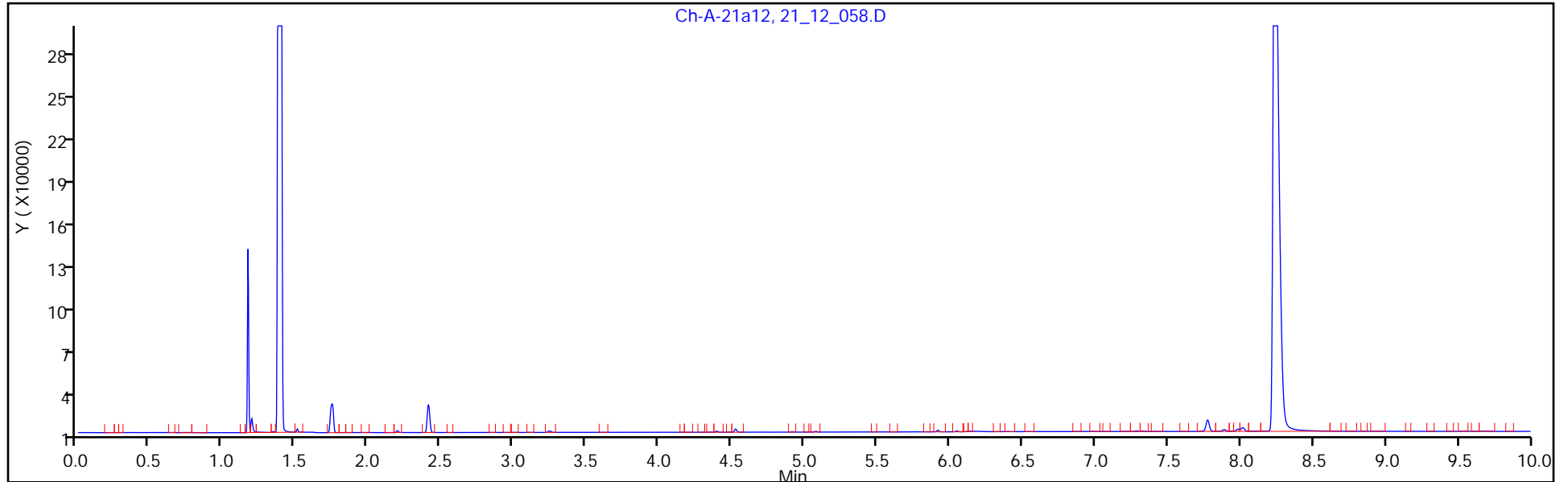
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

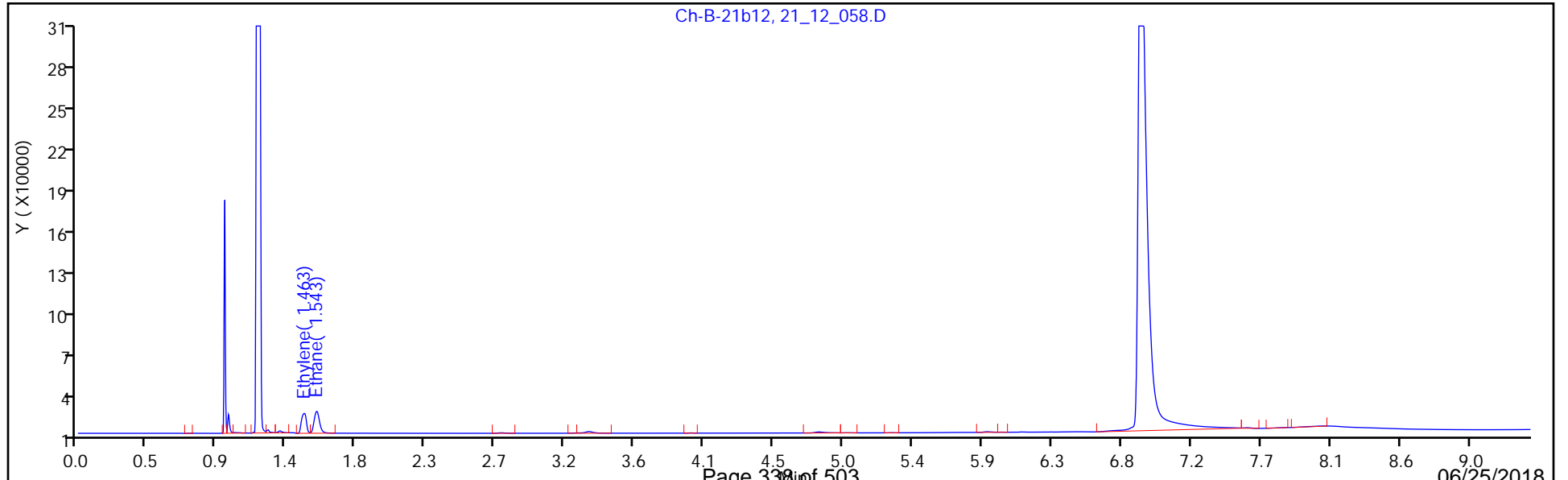
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: 21_12_052.D
 Analysis Method: RSK-175 Date Collected: 06/15/2018 11:44
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 13:04
 Soil Aliquot Vol: _____ Dilution Factor: 22
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	180		170	33
74-85-1	Ethene	340		150	33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_052.D
 Lims ID: 480-137605-K-3
 Client ID: ML-2-I
 Sample Type: Client
 Inject. Date: 19-Jun-2018 13:04:03 ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 22.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

2 Ethane

1	1.753	1.753	0.000	20331	8.15	
2	1.547	1.547	0.000	27007	7.86	

3 Ethylene

1	2.433	2.437	-0.004	28083	15.3	
2	1.467	1.467	0.000	36537	15.2	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_052.D

Injection Date: 19-Jun-2018 13:04:03

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 480-137605-K-3

Lab Sample ID: 480-137605-3

Worklist Smp#: 12

Client ID: ML-2-I

Purge Vol: 5.000 mL

Dil. Factor: 22.0000

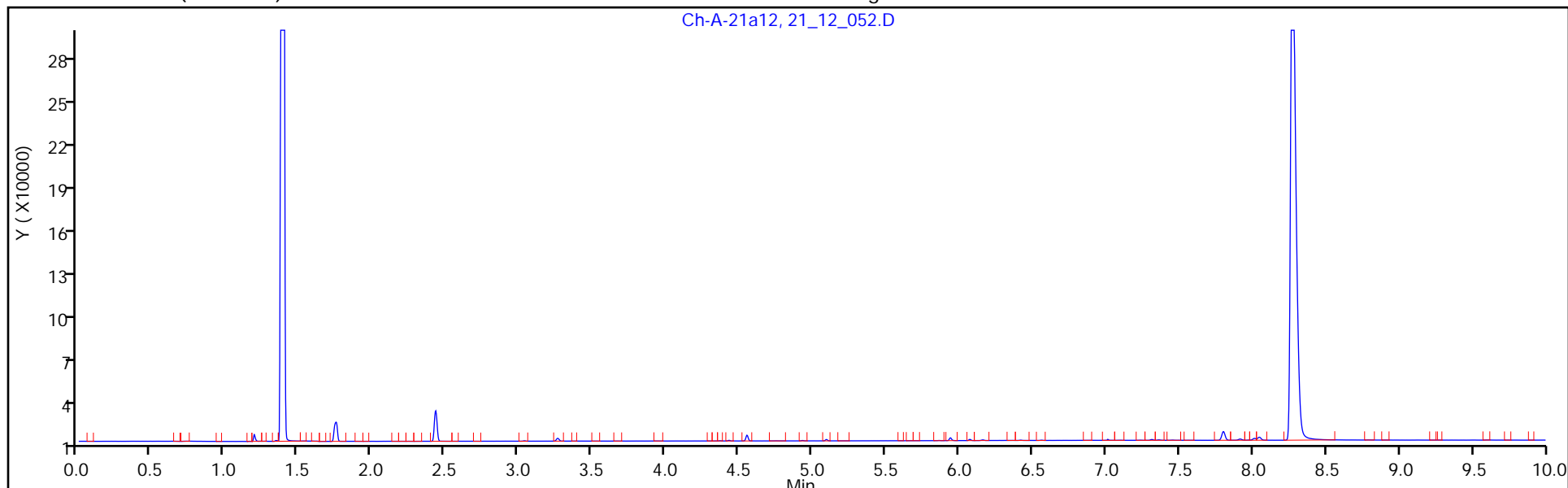
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

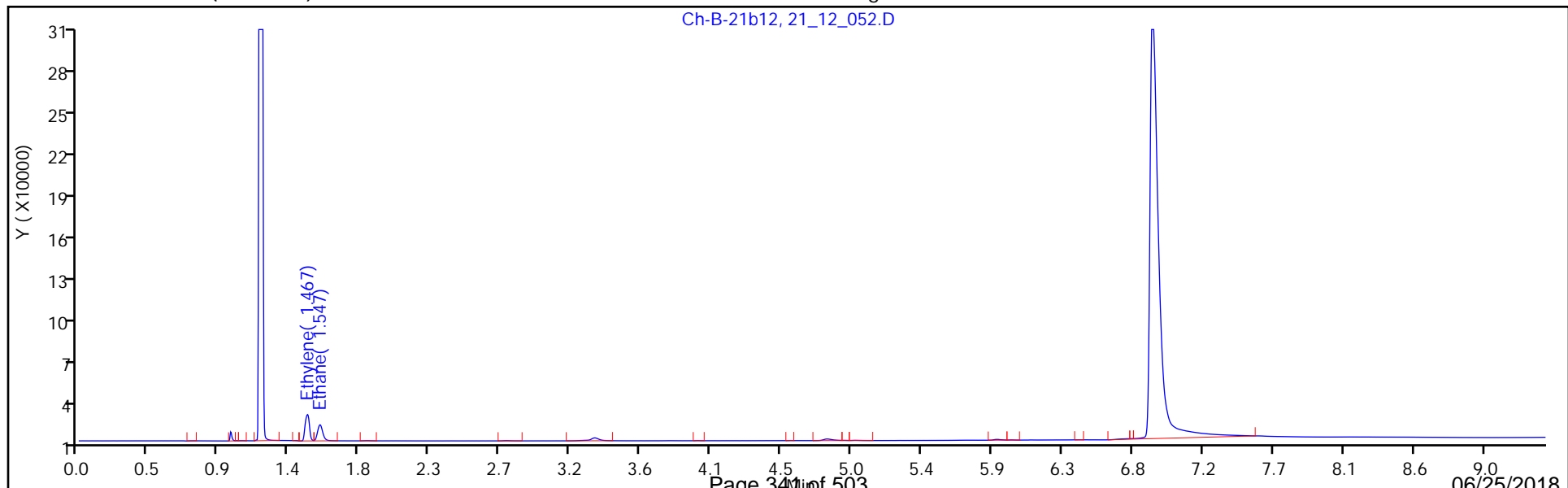
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124							0.9980		0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962							0.9980		0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756							0.9980		0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753							0.9970		0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147							0.9930		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9		LVL 6	LVL 7	LVL 8	LVL 9	
Methane	Lin1	9749	14857	34711	62430	125878	3.88	7.77	19.4	38.8	77.7
		229956	348303	441234	534455		155	233	311	388	
Ethane	Lin1	18234	28234	67776	121900	247603	7.28	14.6	36.4	72.8	146
		450167	686896	868187	+++++		291	437	583	+++++	
Ethene	Lin1	15388	24254	57298	104285	211496	6.80	13.6	34.0	68.0	136
		384441	587597	737510	+++++		272	408	544	+++++	
Propane	Lin1	27946	43073	103995	185489	380021	10.7	21.4	53.4	107	214
		684190	+++++	+++++	+++++		427	+++++	+++++	+++++	
Butane	Lin1	37264	57053	138358	247119	587931	13.9	27.9	69.7	139	279
		1013085	+++++	+++++	+++++		558	+++++	+++++	+++++	

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	
2 Ethane							
1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	
3 Ethylene							
1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	
4 Propane							
1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	
5 Butane							
1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

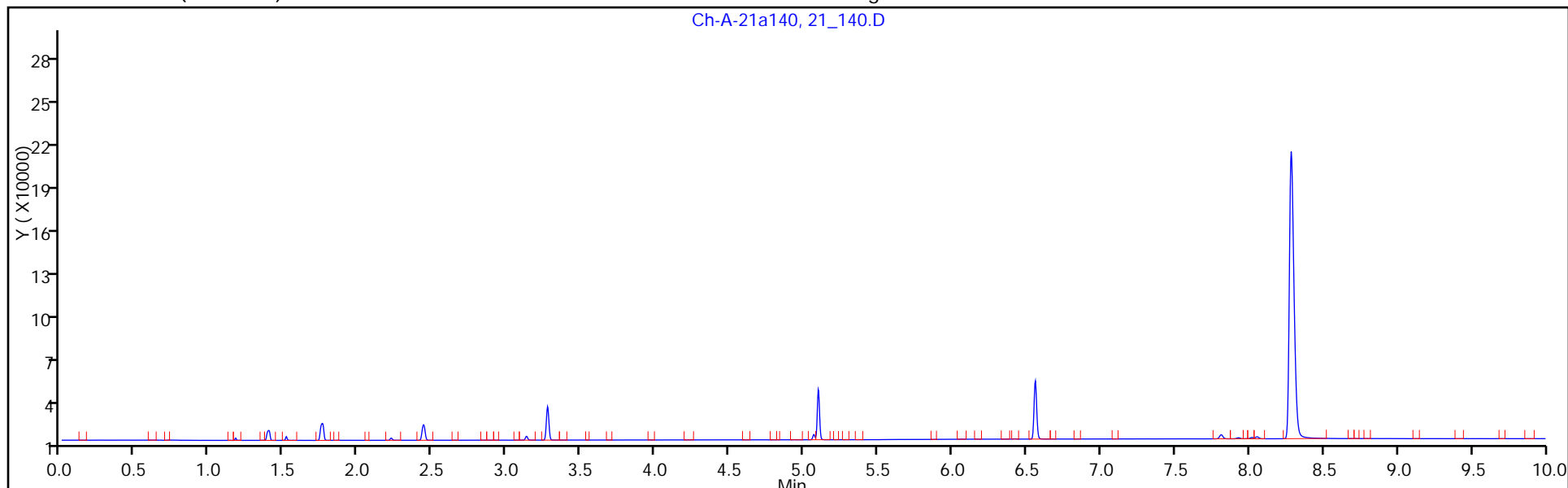
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

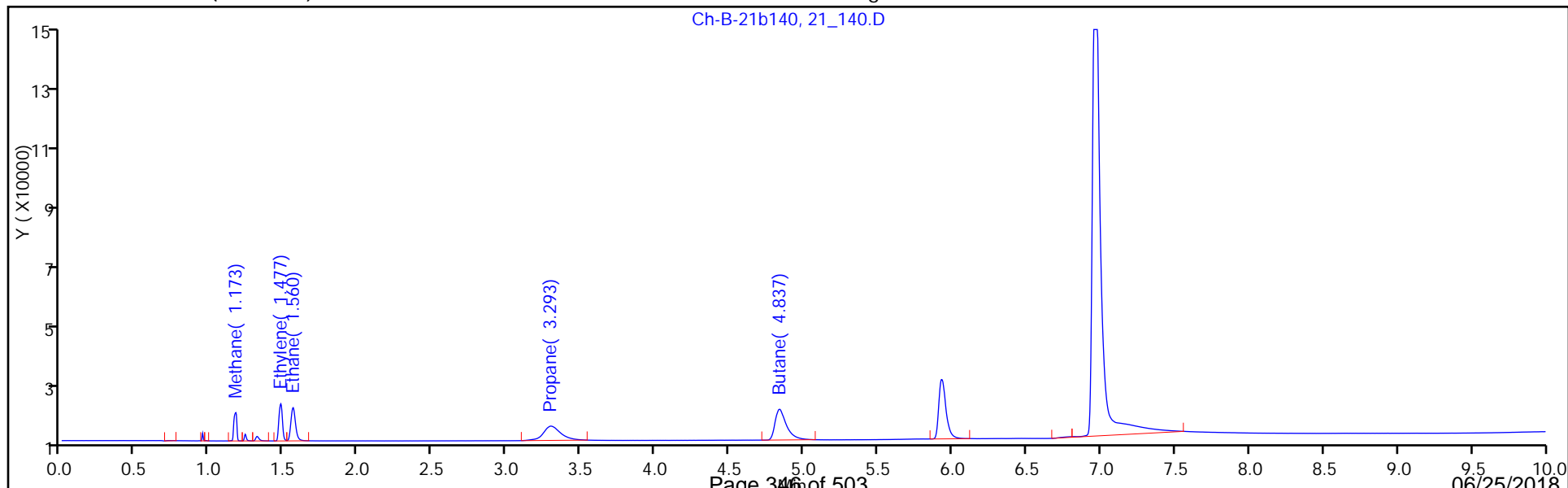
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	
2 Ethane							
1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	
3 Ethylene							
1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	
4 Propane							
1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	
5 Butane							
1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

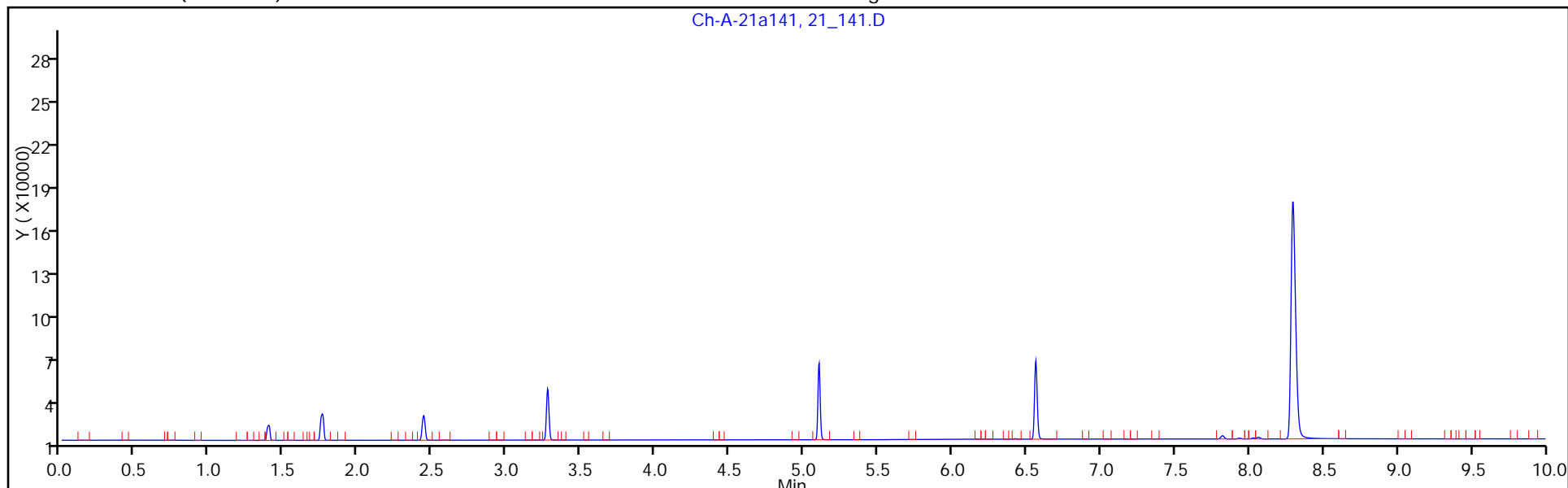
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

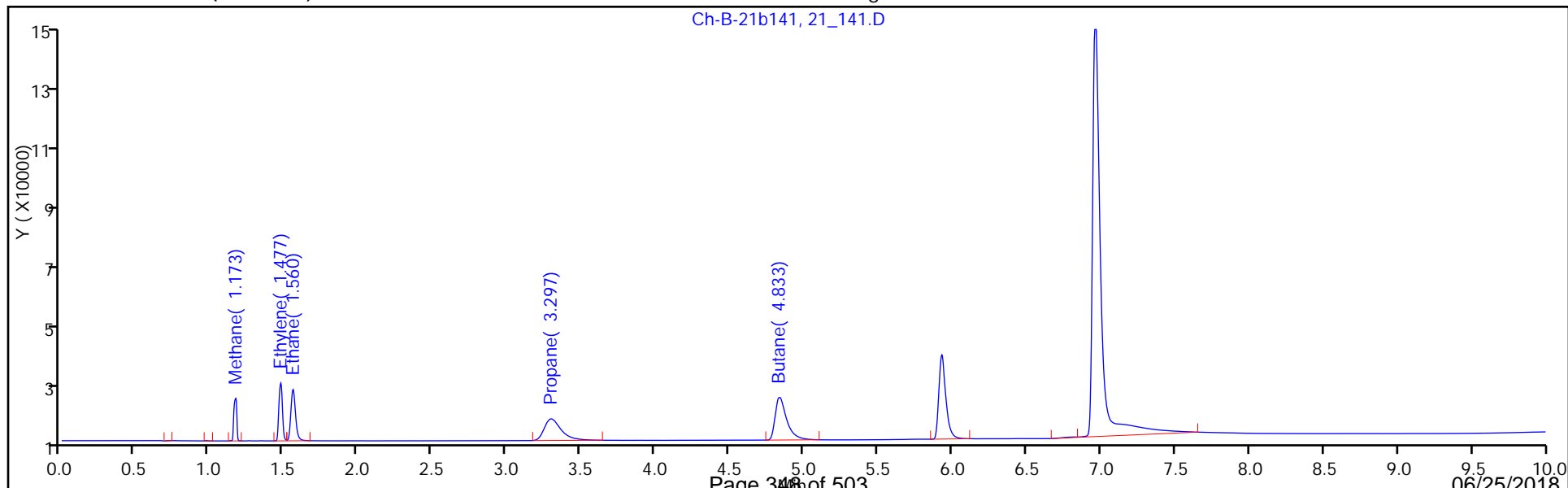
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	
2 Ethane							
1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	
3 Ethylene							
1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	
4 Propane							
1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	
5 Butane							
1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022 Amount Added: 50.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

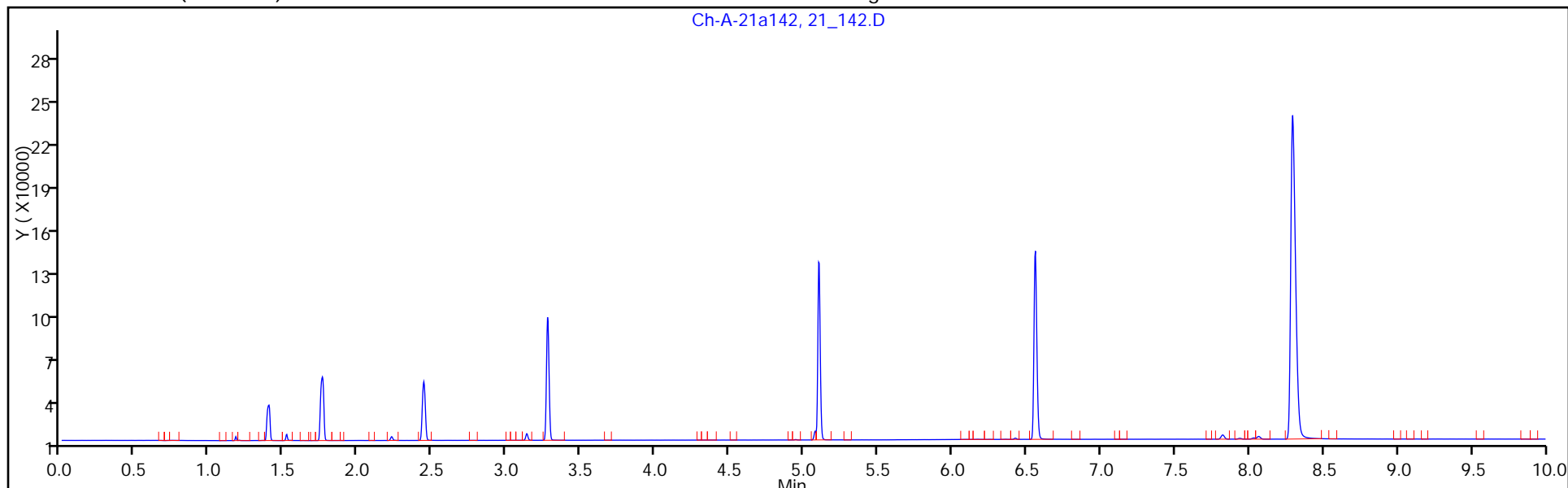
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

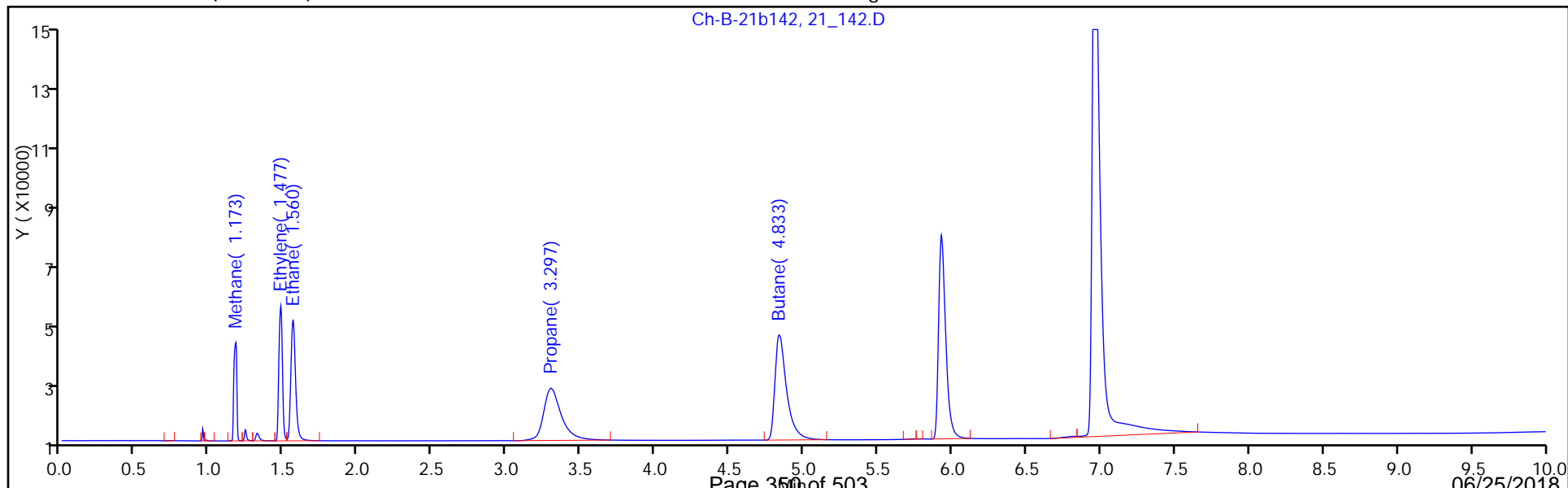
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	
2 Ethane							
1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	
3 Ethylene							
1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	
4 Propane							
1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	
5 Butane							
1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

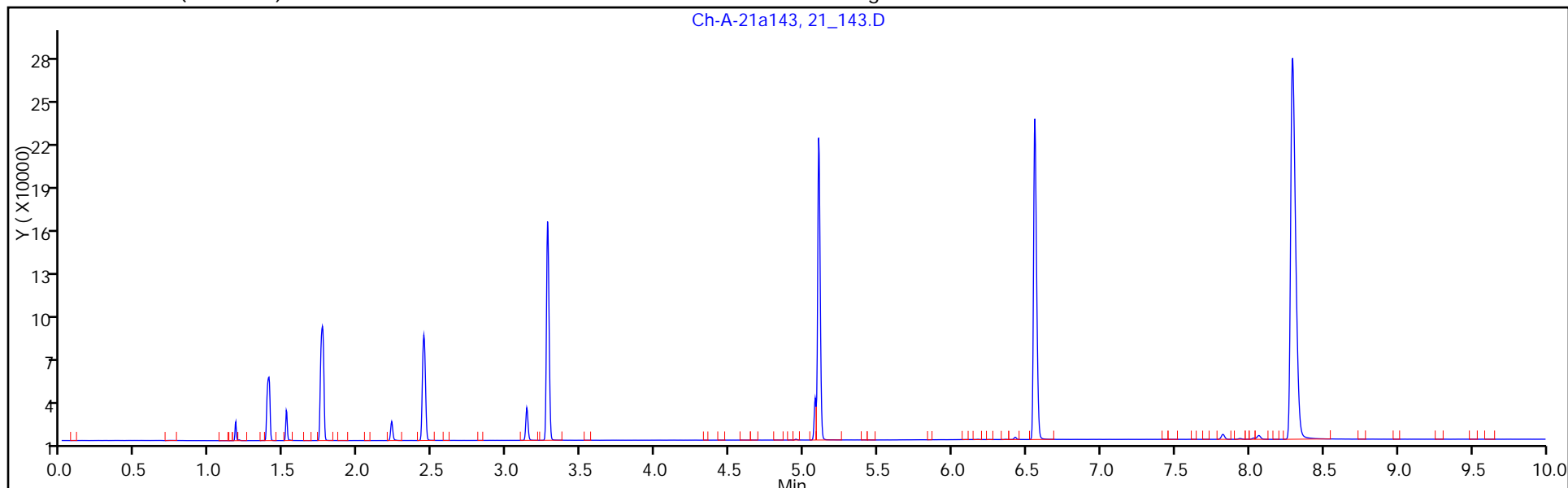
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

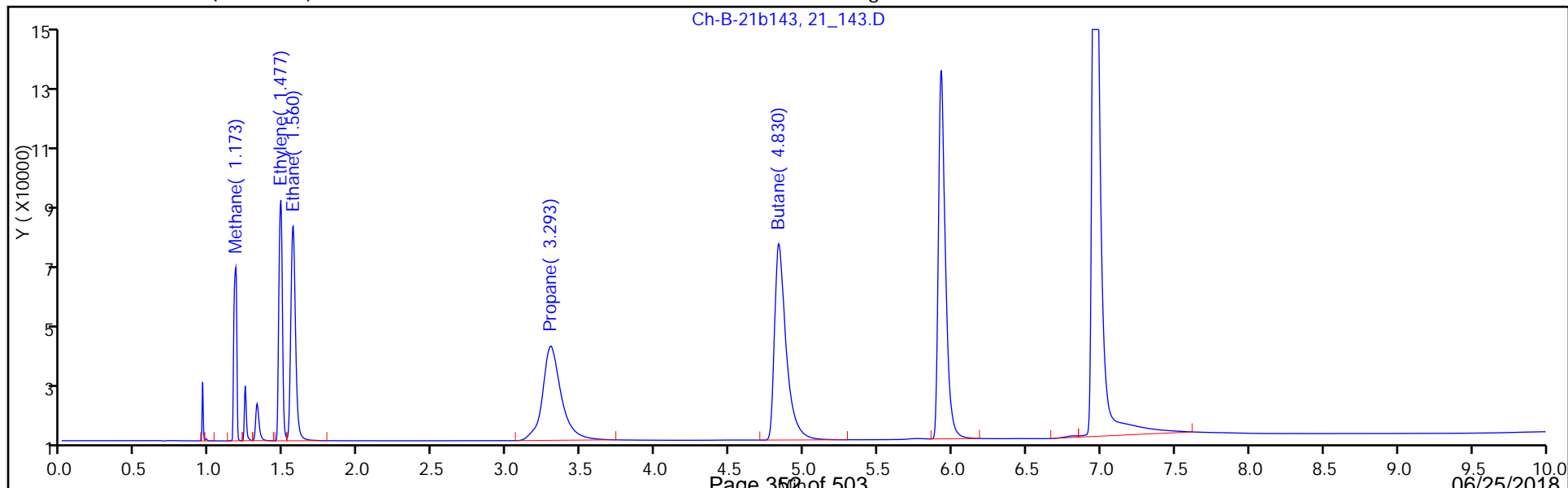
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane

1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	

2 Ethane

1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	

3 Ethylene

1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	

4 Propane

1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	

5 Butane

1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022 Amount Added: 200.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

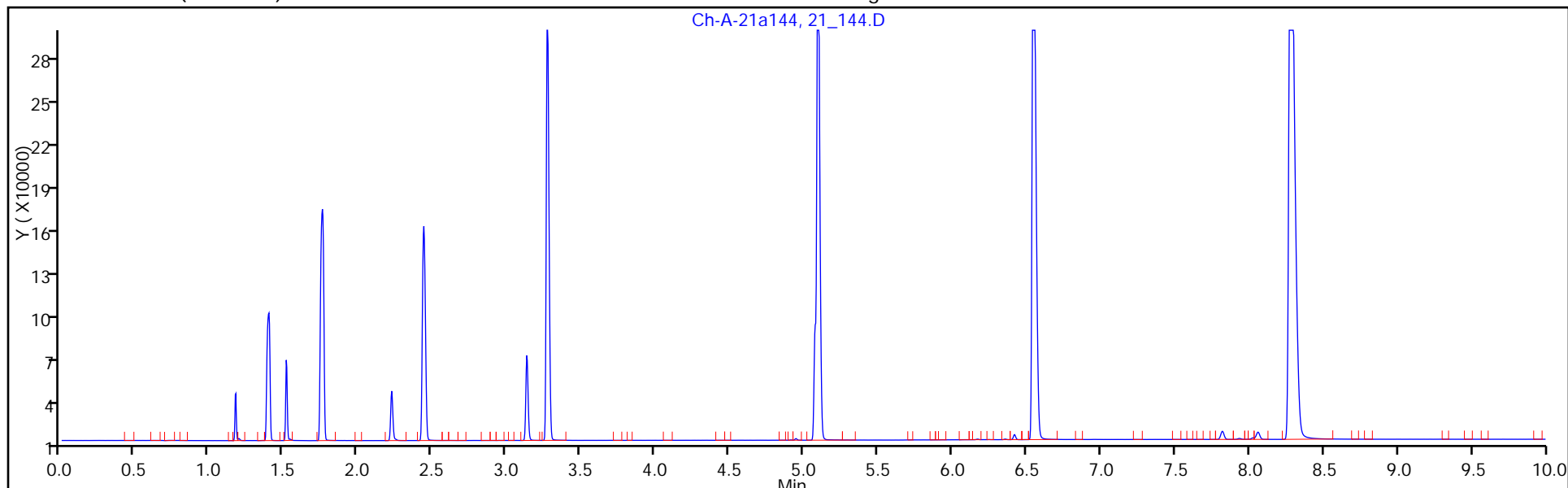
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

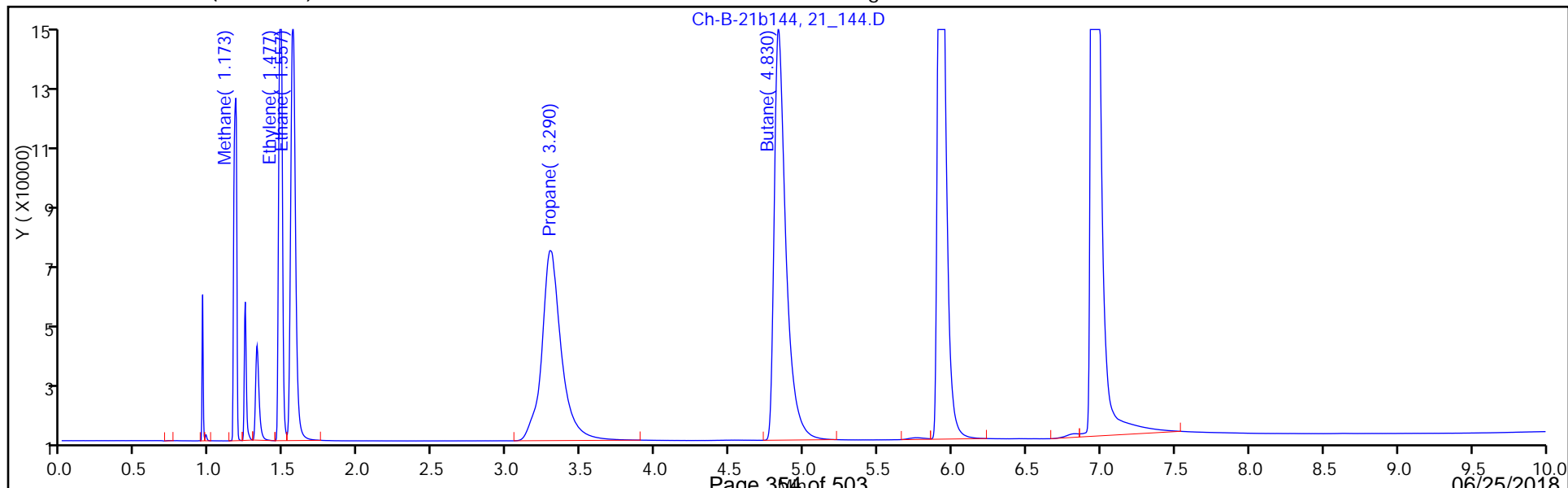
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Methane							
1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	
2 Ethane							
1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	
3 Ethylene							
1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	
4 Propane							
1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	
5 Butane							
1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022 Amount Added: 400.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

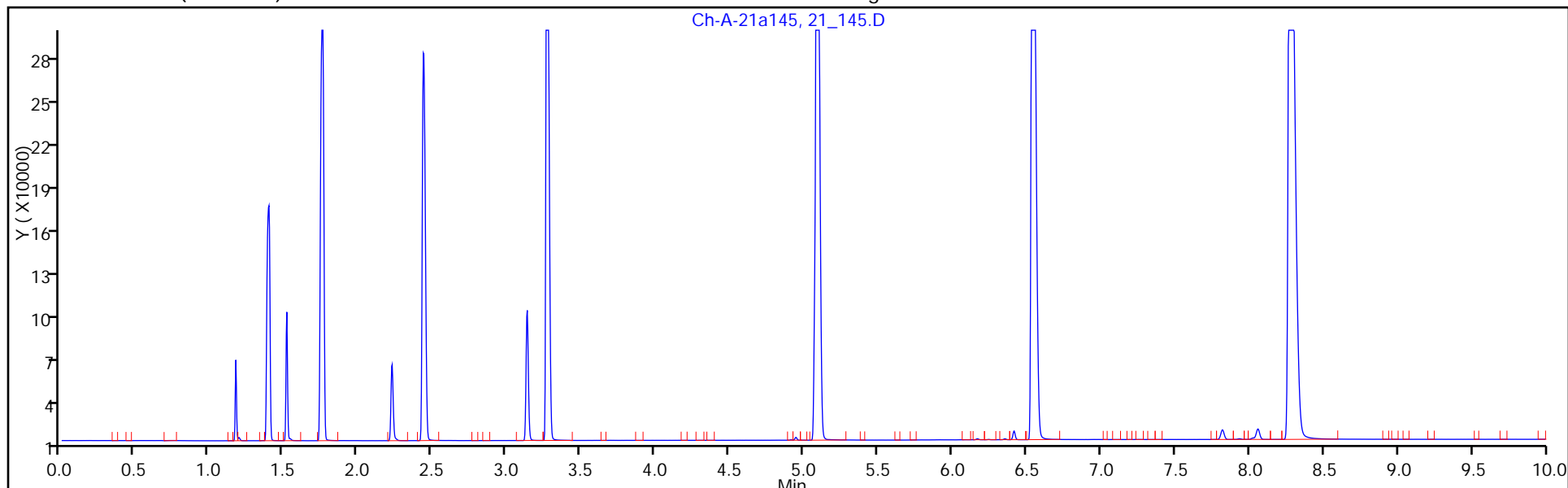
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

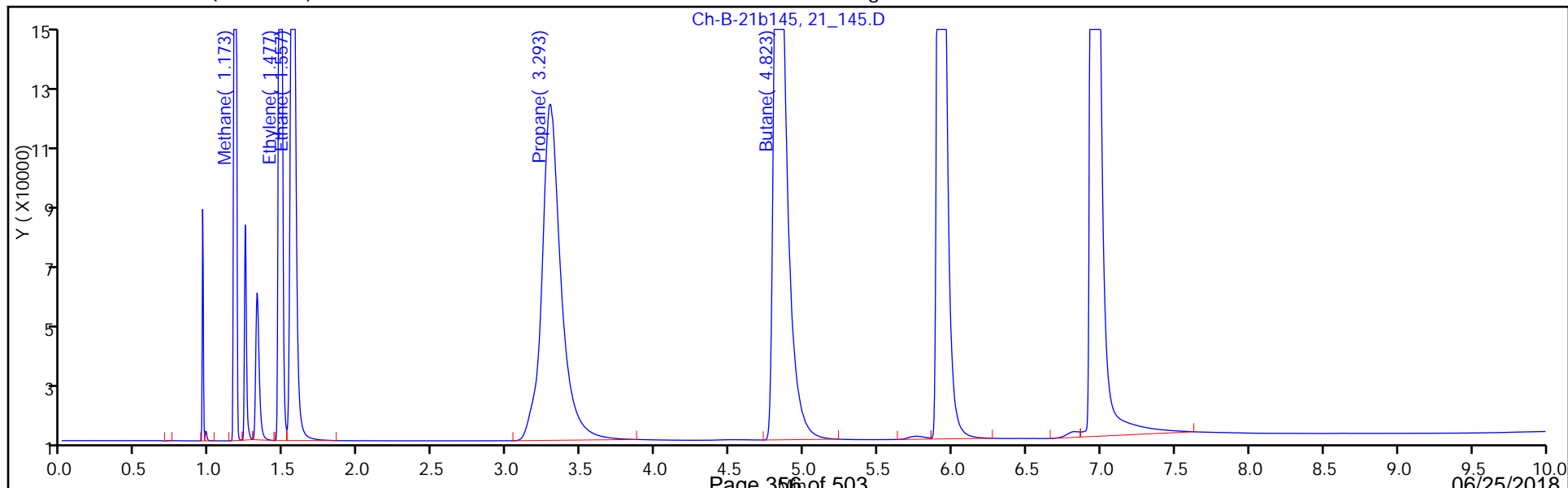
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	
2 Ethane							
1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	
3 Ethylene							
1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	
4 Propane							
1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	
5 Butane							
1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022 Amount Added: 600.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

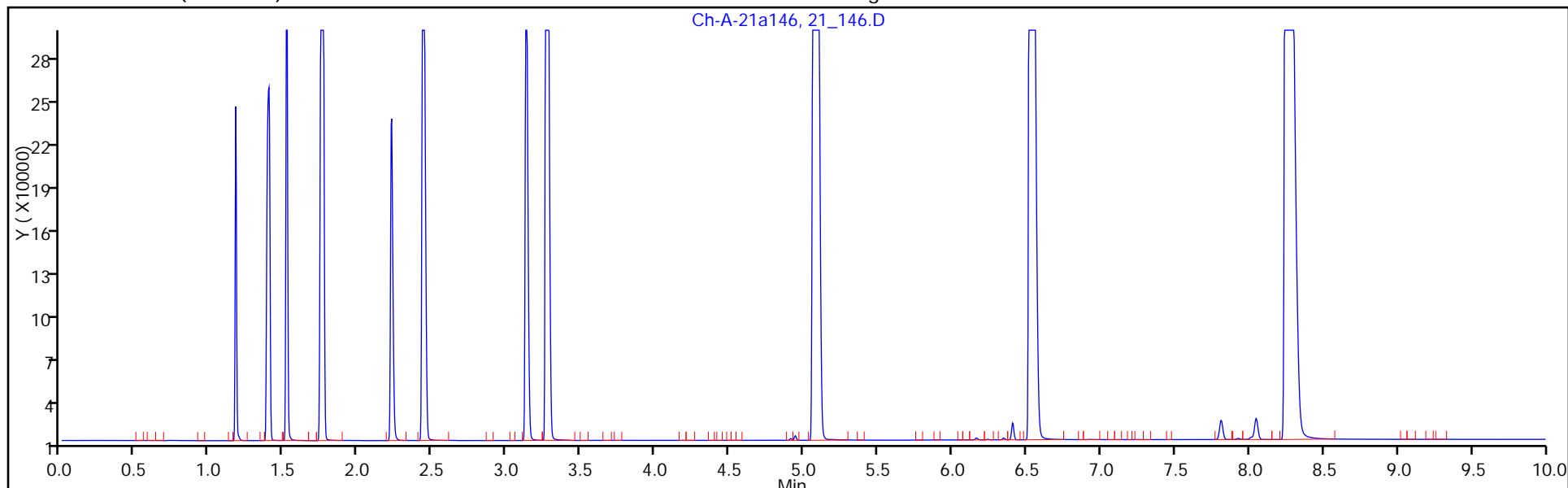
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

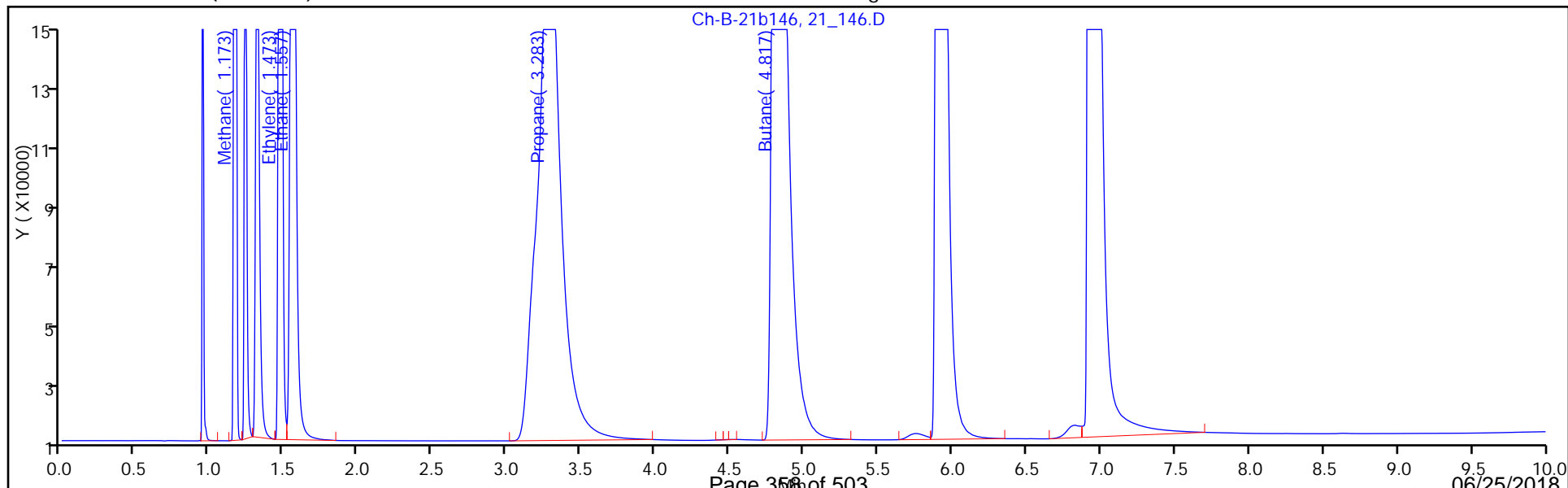
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	441234	310.8	306.7	M
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							
1	1.757	1.757	0.000	868187	582.7	563.1	M
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							
1	2.433	2.440	-0.007	737510	543.9	523.5	M
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 800.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

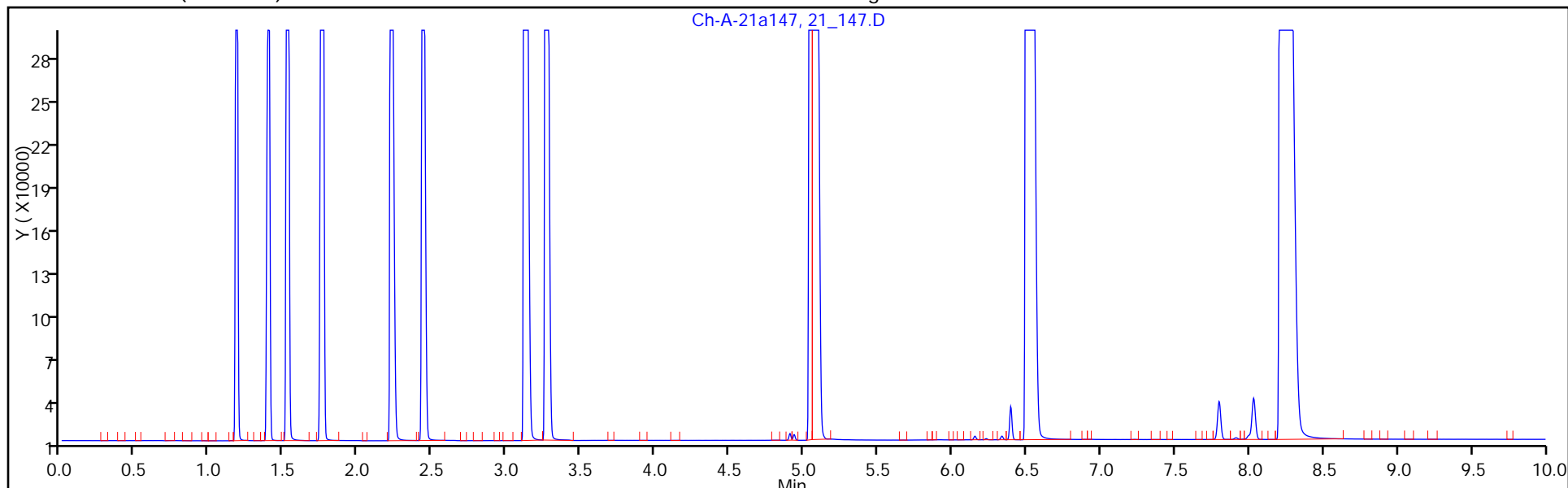
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

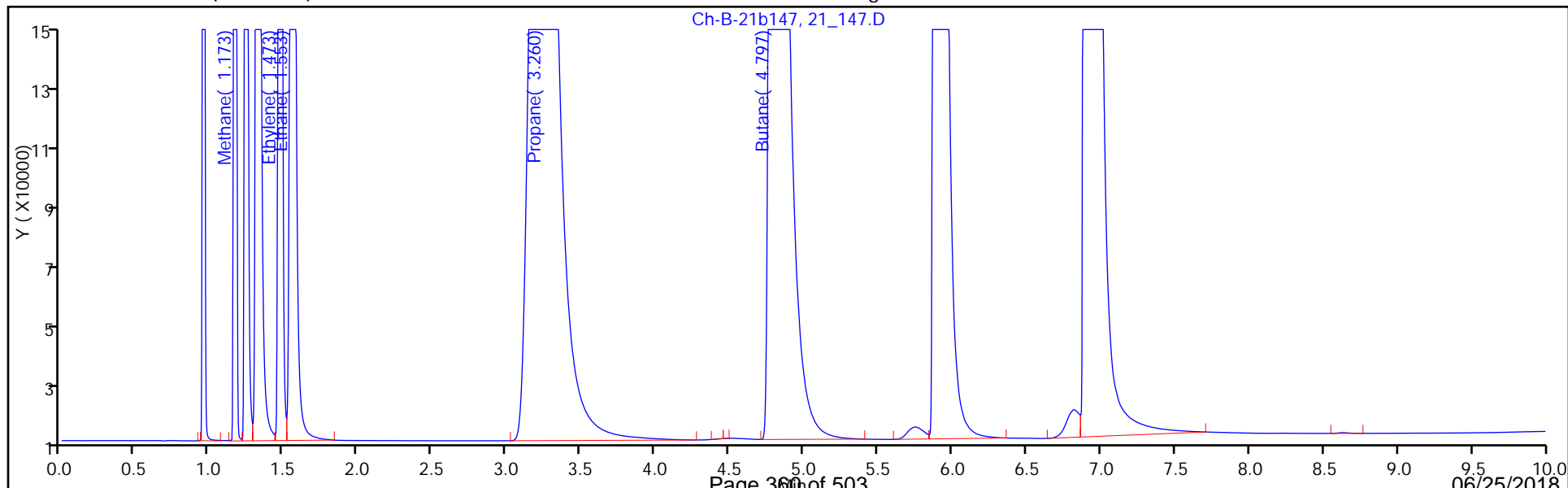
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	
2 Ethane							
1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	
3 Ethylene							
1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	
4 Propane							
1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M
5 Butane							
1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022 Amount Added: 1000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

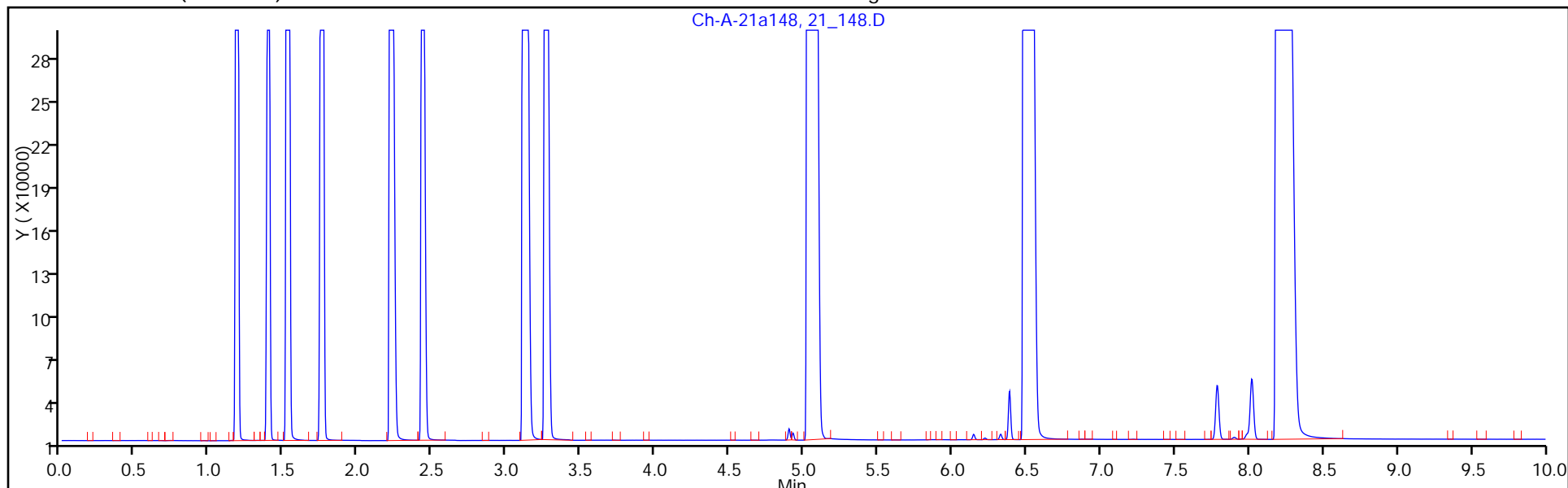
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

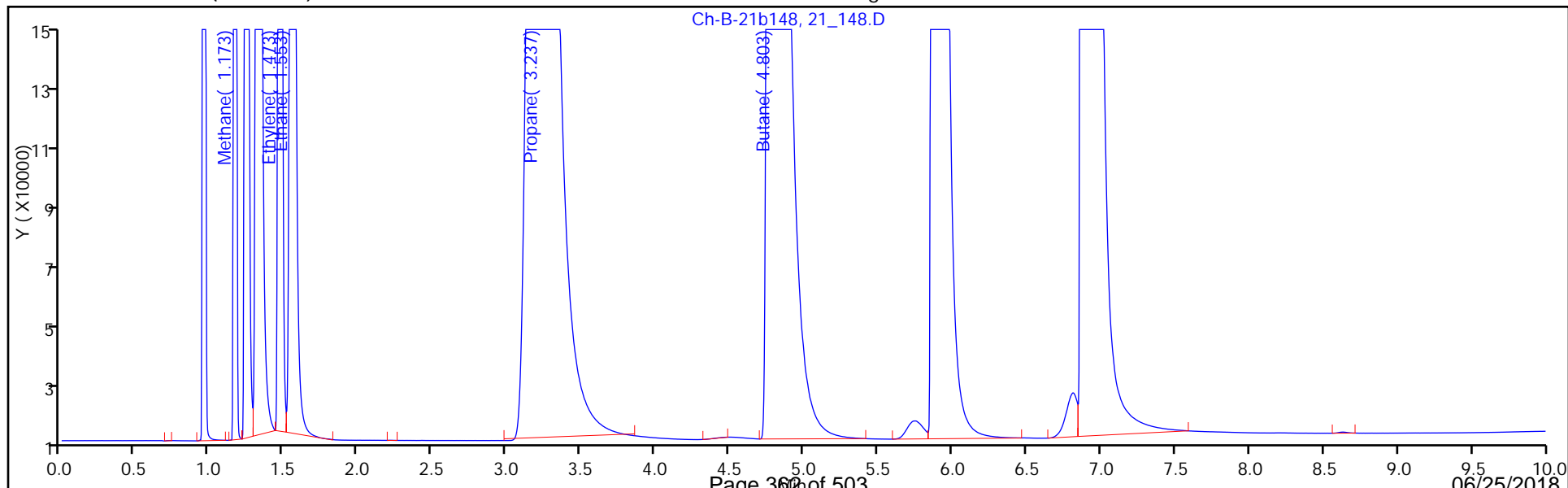
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

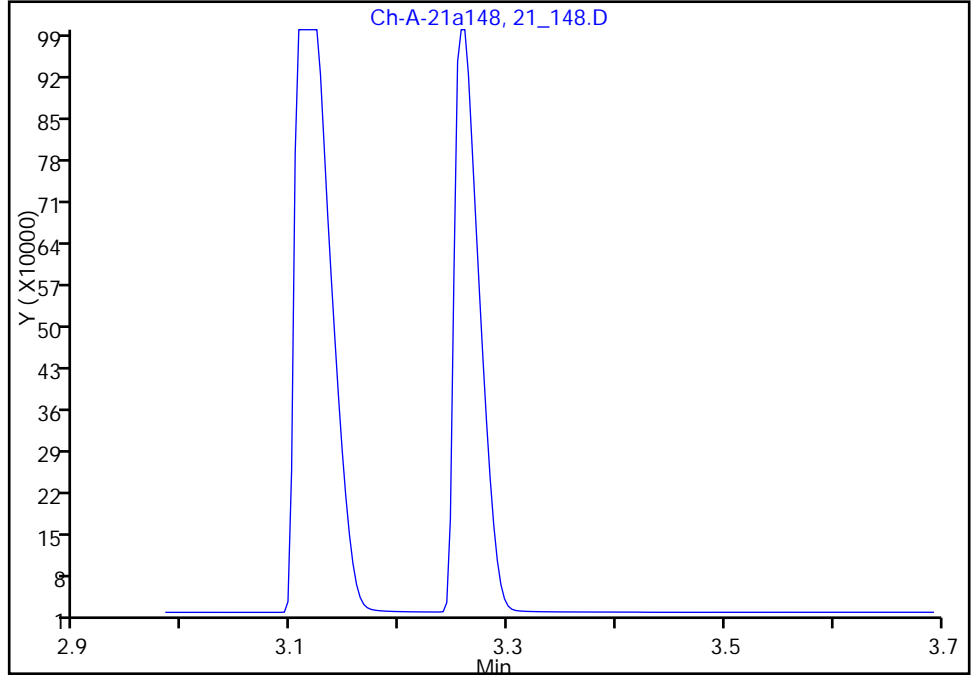
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

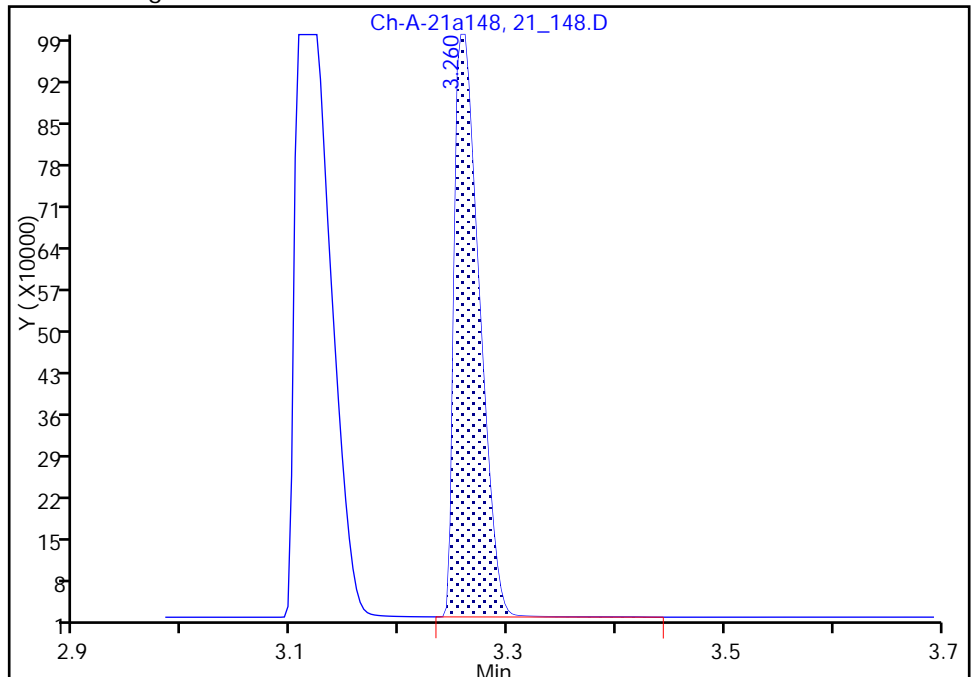
Not Detected
Expected RT: 3.27

Processing Integration Results



RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l

Manual Integration Results



Reviewer: gentnert, 12-Sep-2017 11:10:42
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1773		15.9	15.5	2.6	15.0
Ethane	Lin1		1745		28.1	29.1	-3.5	15.0
Ethene	Lin1		1593		26.3	27.2	-3.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.44	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_043.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Jun-2018 09:37:36 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 10:10:33

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	27551	15.5	15.9	
2	1.173	1.173	0.000	36762	15.5	16.5	
2 Ethane							
1	1.753	1.753	0.000	50847	29.1	28.1	
2	1.547	1.547	0.000	67145	29.1	28.7	
3 Ethylene							
1	2.437	2.437	0.000	43330	27.2	26.3	
2	1.467	1.467	0.000	56391	27.2	26.8	
4 Propane							
1	3.263	3.263	0.000	77622	42.7	40.9	
2	3.257	3.257	0.000	100809	42.7	36.7	
5 Butane							
1	5.087	5.087	0.000	103334	55.8	50.6	
2	4.797	4.797	0.000	137989	55.8	49.7	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_043.D

Injection Date: 19-Jun-2018 09:37:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

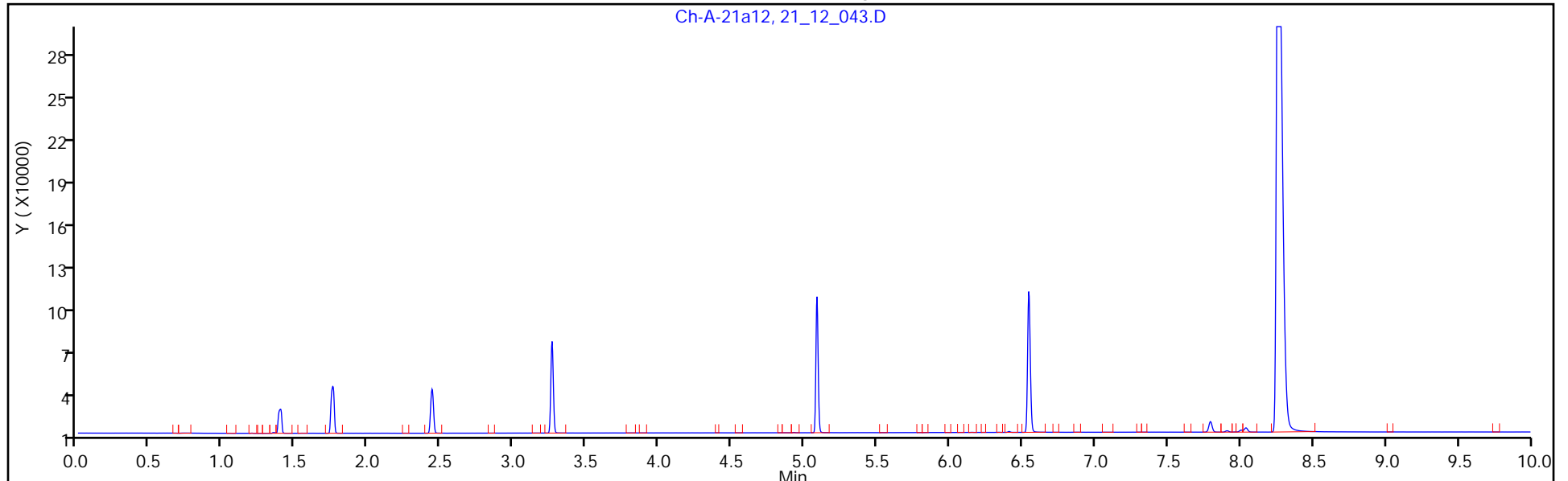
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

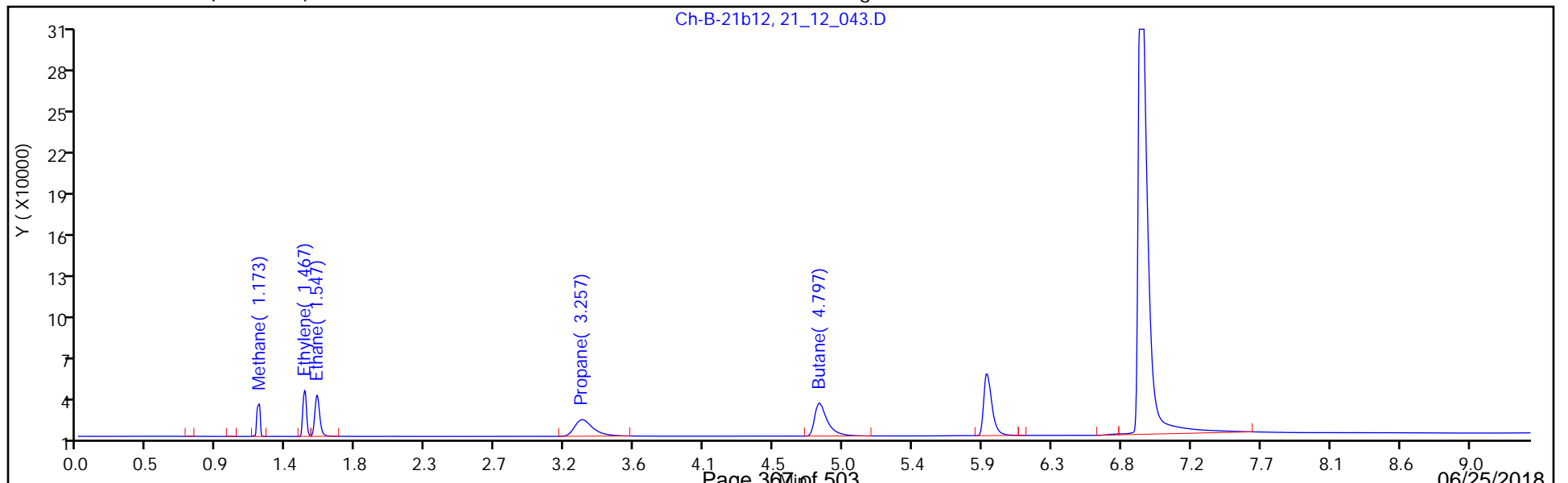
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1865		16.9	15.5	9.1	15.0
Ethane	Lin1		1867		30.4	29.1	4.5	15.0
Ethene	Lin1		1703		28.4	27.2	4.5	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.75	1.70	1.80
Ethene	2.42	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_060.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 19-Jun-2018 15:33:49 ALS Bottle#: 0 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:32:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK004

First Level Reviewer: clarkda Date: 19-Jun-2018 16:12:55

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28985	15.5	16.9	
2	1.173	1.173	0.000	39002	15.5	17.8	
2 Ethane							
1	1.750	1.753	-0.003	54399	29.1	30.4	
2	1.543	1.547	-0.004	72272	29.1	31.3	
3 Ethylene							
1	2.420	2.437	-0.017	46316	27.2	28.4	
2	1.467	1.467	0.000	59914	27.2	28.8	
4 Propane							
1	3.257	3.263	-0.006	83355	42.7	44.4	
2	3.260	3.257	0.003	110495	42.7	40.7	
5 Butane							
1	5.083	5.087	-0.004	111199	55.8	54.8	
2	4.793	4.797	-0.004	148052	55.8	53.9	

Reagents:

_RSK_STK_00022 Amount Added: 40.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_060.D

Injection Date: 19-Jun-2018 15:33:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

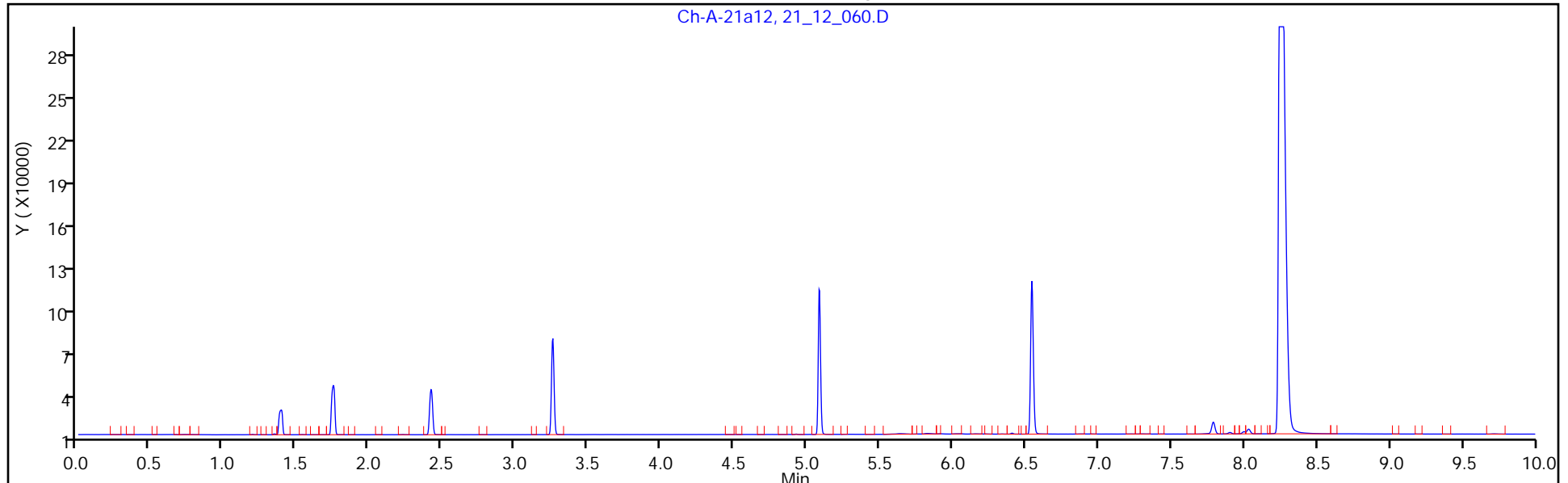
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

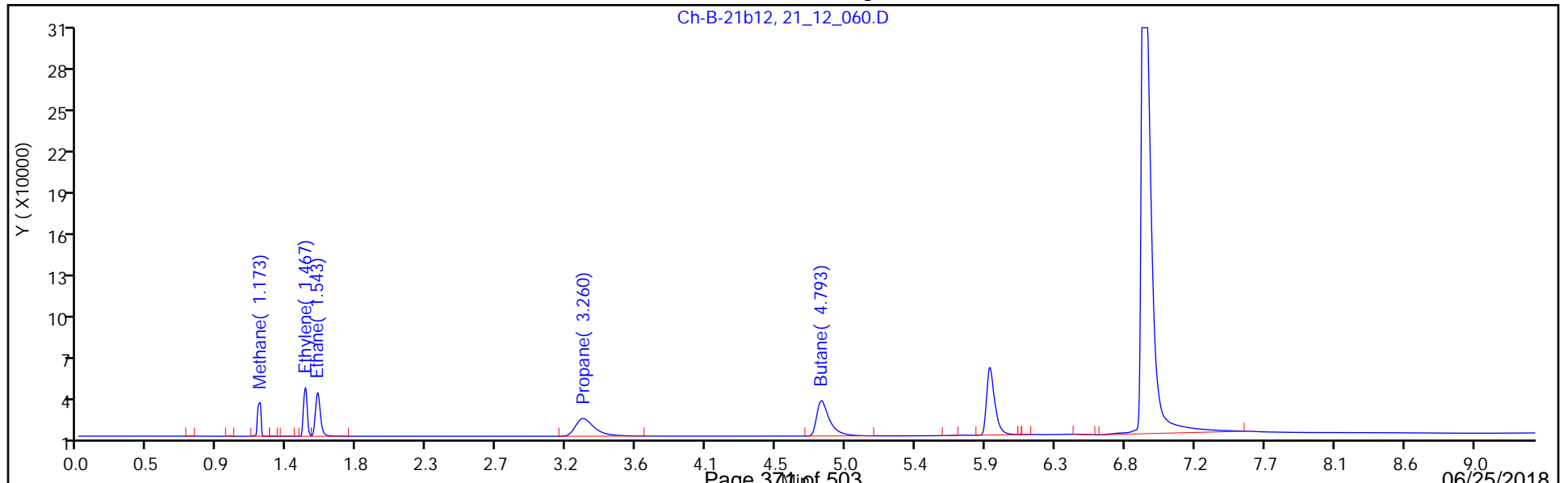
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420316/4
 Matrix: Water Lab File ID: 21_12_044.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_044.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Jun-2018 09:55:06 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 10:26:44

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	1696		-2.23	
2	1.173	1.173	0.000	3111		-2.57	

2 Ethane

1	1.753	1.753	0.000	176		-5.04	
2	1.537	1.547	-0.010	111		-6.08	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_044.D

Injection Date: 19-Jun-2018 09:55:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

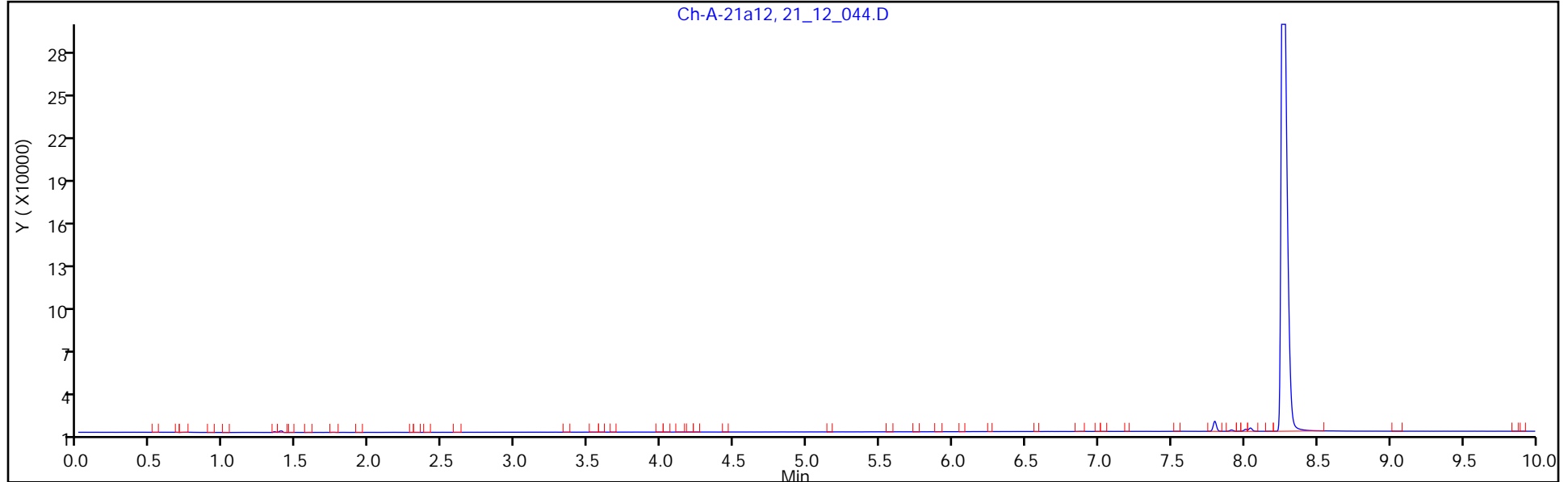
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

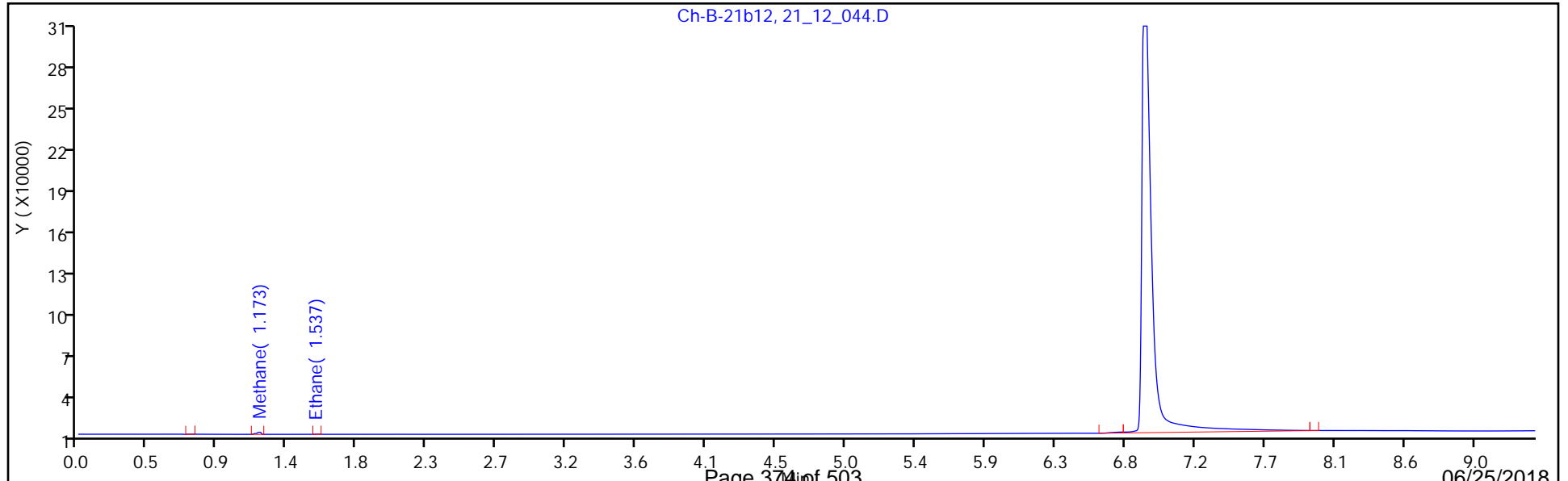
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-420316/5
 Matrix: Water Lab File ID: 21_12_045.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 06/19/2018 10:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	13.1		7.5	1.5
74-85-1	Ethene	12.0		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_045.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Jun-2018 10:12:36 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

First Level Reviewer: clarkda Date: 19-Jun-2018 11:10:38

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane							
1	1.393	1.393	0.000	15727	7.77	7.63	
2	1.173	1.173	0.000	21751	7.77	8.01	
2 Ethane							
1	1.753	1.753	0.000	27819	14.6	13.1	
2	1.547	1.547	0.000	37384	14.6	13.2	
3 Ethylene							
1	2.437	2.437	0.000	23436	13.6	12.0	
2	1.467	1.467	0.000	30920	13.6	12.0	
4 Propane							
1	3.263	3.263	0.000	42221	21.4	19.2	
2	3.257	3.257	0.000	21665	21.4	4.11	
5 Butane							
1	5.093	5.087	0.006	55686	27.9	25.0	
2	4.797	4.797	0.000	74890	27.9	23.2	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_045.D

Injection Date: 19-Jun-2018 10:12:36

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

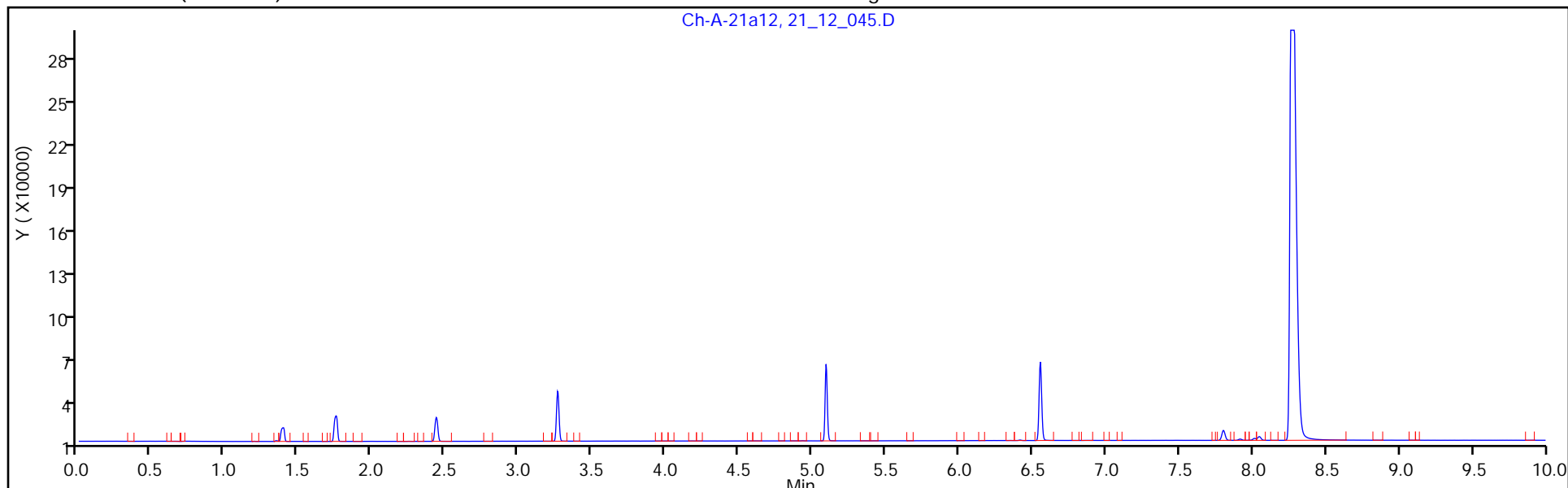
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

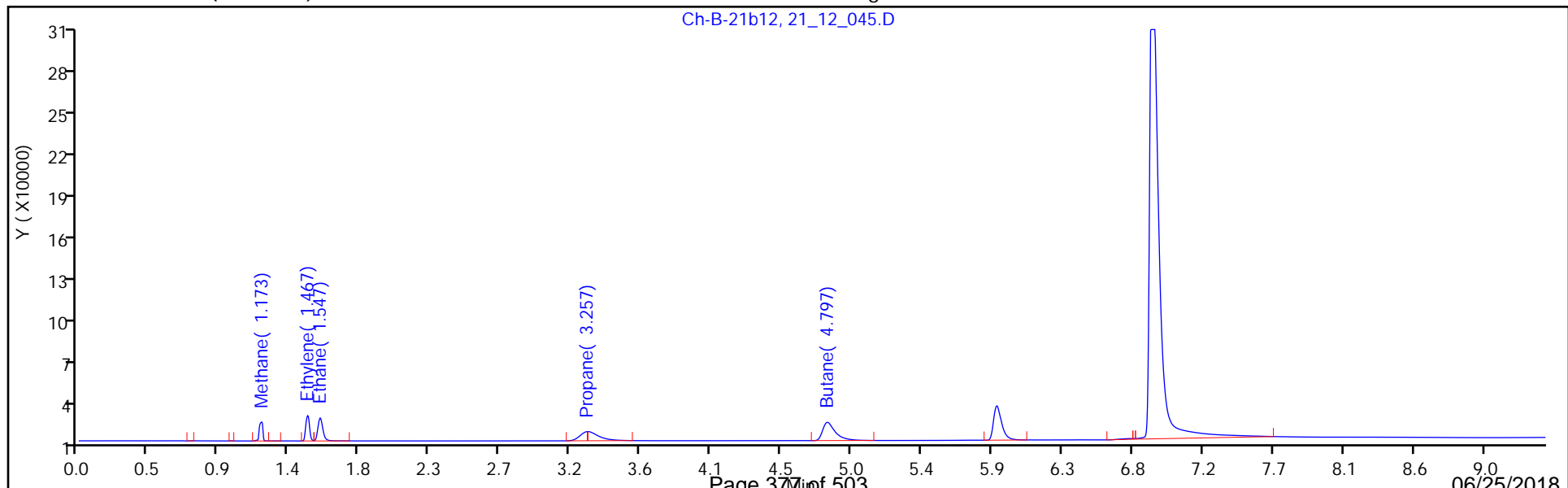
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-420316/6
 Matrix: Water Lab File ID: 21_12_046.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 06/19/2018 10:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	13.8		7.5	1.5
74-85-1	Ethene	12.8		7.0	1.5

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_046.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 19-Jun-2018 10:30:06 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 19-Jun-2018 16:04:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK025

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	16314	7.77	8.04	
2	1.173	1.173	0.000	22501	7.77	8.43	
2 Ethane							
1	1.753	1.753	0.000	28995	14.6	13.8	
2	1.547	1.547	0.000	38812	14.6	14.0	
3 Ethylene							
1	2.440	2.437	0.003	24516	13.6	12.8	
2	1.467	1.467	0.000	32368	13.6	12.8	
4 Propane							
1	3.267	3.263	0.004	44062	21.4	20.4	
2	3.263	3.257	0.006	58365	21.4	19.2	
5 Butane							
1	5.097	5.087	0.010	58571	27.9	26.6	
2	4.793	4.797	-0.004	78536	27.9	24.7	

Reagents:

_RSK_STK_00022 Amount Added: 20.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180619-72441.b\21_12_046.D

Injection Date: 19-Jun-2018 10:30:06

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

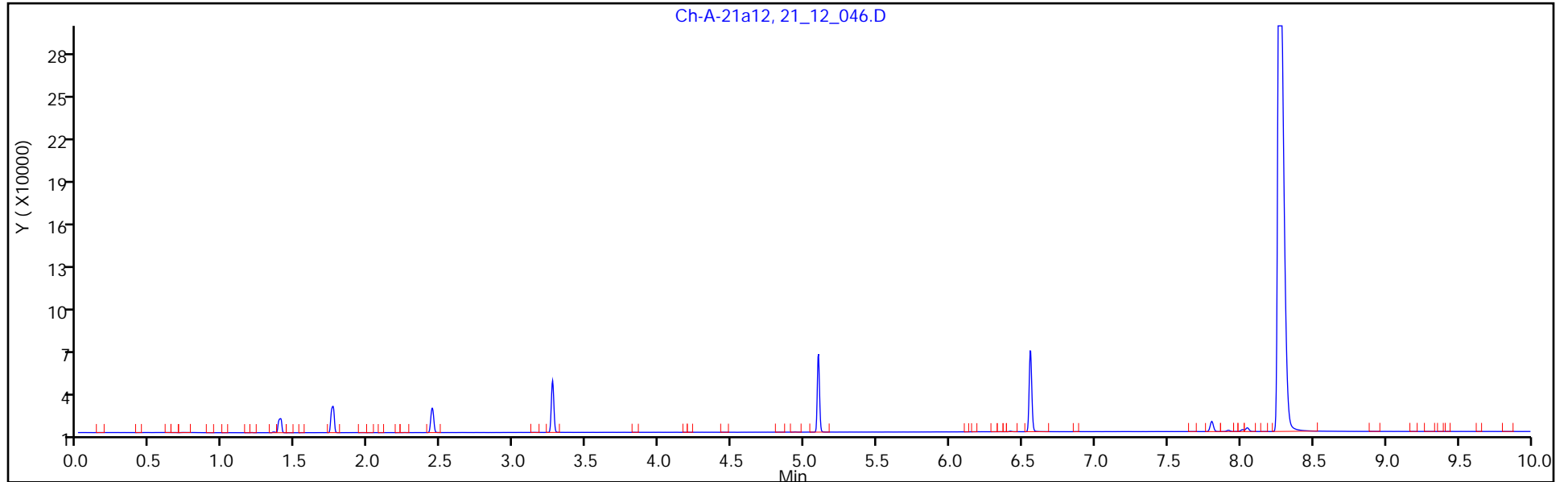
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

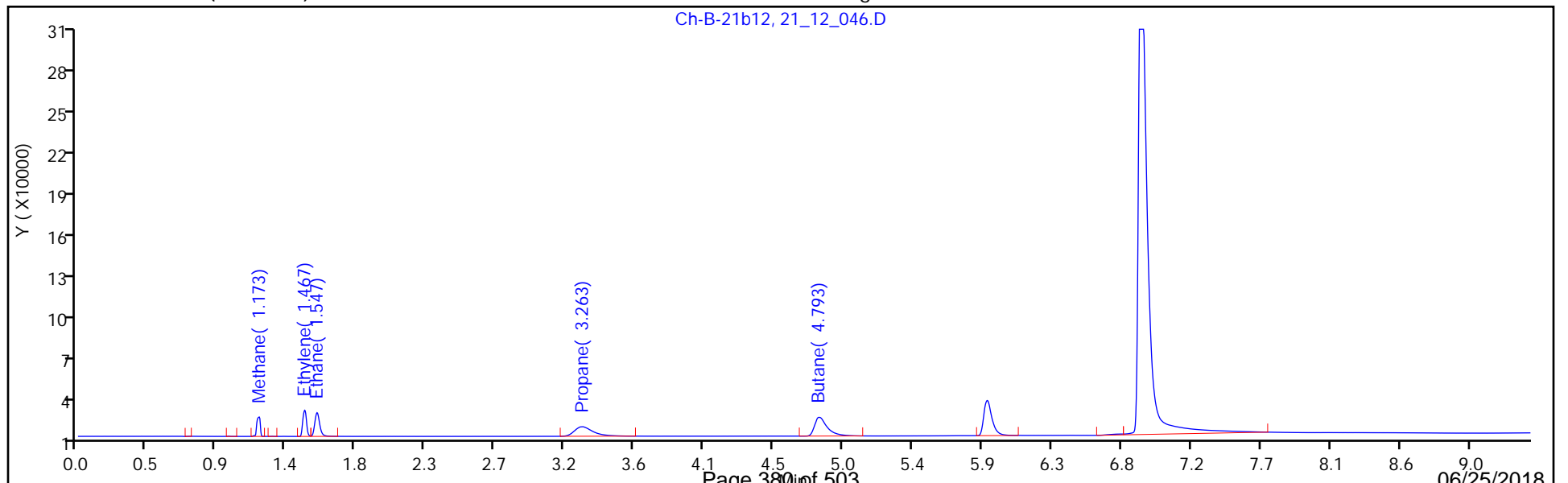
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137605-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 09/12/2017 08:34Analysis Batch Number: 376268End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-137605-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 06/19/2018 09:02Analysis Batch Number: 420316End Date: 06/19/2018 15:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/19/2018 09:02	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:02	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 09:20	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:20	1		RTX-U Plot 0.32 (mm)
CCV 480-420316/3		06/19/2018 09:37	1	21_12_043.D	Alumina 0.53 (mm)
CCV 480-420316/3		06/19/2018 09:37	1		RTX-U Plot 0.32 (mm)
MB 480-420316/4		06/19/2018 09:55	1	21_12_044.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 09:55	1		RTX-U Plot 0.32 (mm)
LCS 480-420316/5		06/19/2018 10:12	1	21_12_045.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 10:12	1		RTX-U Plot 0.32 (mm)
LCSD 480-420316/6		06/19/2018 10:30	1	21_12_046.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 10:30	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 11:36	44		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 11:36	44		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 11:54	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 11:54	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:11	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:11	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:29	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:29	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 12:46	44		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 12:46	44		RTX-U Plot 0.32 (mm)
480-137605-3		06/19/2018 13:04	22	21_12_052.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:04	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:21	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:21	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:39	22		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:39	22		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 13:56	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 13:56	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:14	1		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:14	1		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 14:31	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:31	11		RTX-U Plot 0.32 (mm)
480-137605-1		06/19/2018 14:49	11	21_12_058.D	Alumina 0.53 (mm)
ZZZZZ		06/19/2018 14:49	11		RTX-U Plot 0.32 (mm)
ZZZZZ		06/19/2018 15:06	11		Alumina 0.53 (mm)
ZZZZZ		06/19/2018 15:06	11		RTX-U Plot 0.32 (mm)
CCV 480-420316/20		06/19/2018 15:33	1	21_12_060.D	Alumina 0.53 (mm)
CCV 480-420316/20		06/19/2018 15:33	1		RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1

SDG No.: _____

Project: Former Emerson Street Landfill Project

Client Sample ID	Lab Sample ID
<u>ML-2-D</u>	<u>480-137605-1</u>
<u>ML-2-I</u>	<u>480-137605-3</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2-D

Lab Sample ID: 480-137605-1

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/15/2018 12:45

Reporting Basis: WET

Date Received: 06/16/2018 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	411	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2-I

Lab Sample ID: 480-137605-3

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/15/2018 11:44

Reporting Basis: WET

Date Received: 06/16/2018 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	0.023	0.050	0.020	mg/L as N	J	H	1	353.2
16887-00-6	Chloride	402	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Analyst: MJB Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 420855

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:44	Sulfide	10.00	10.0	100	90-110		Sulfide CCV_00238
2	CCB	10:44	Sulfide	ND					
13	CCV	10:44	Sulfide	10.00	10.0	100	90-110		Sulfide CCV_00238
14	CCB	10:44	Sulfide	ND					
16	CCV	10:44	Sulfide	10.40	10.0	104	90-110		Sulfide CCV_00238
17	CCB	10:44	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Analyst: DMR Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 420962

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:30	Chloride	50.54	50.0	101	90-110		IC_ANION_LCS__0020
			Sulfate	51.24	50.0	102	90-110		7 IC_ANION_LCS__0020
2	CCB	20:38	Chloride	ND					
			Sulfate	ND					
13	CCV	22:08	Chloride	51.17	50.0	102	90-110		IC_ANION_LCS__0020
			Sulfate	51.40	50.0	103	90-110		7 IC_ANION_LCS__0020
14	CCB	22:16	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 06/18/2018
 Reporting Units: mg/L Analytical Batch No.: 420230

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:00	Ferrous Iron	1.79	2.00	90	90-110		FE 200ppm ICV 00022
2	CCB	13:00	Ferrous Iron	ND					
13	CCV	13:00	Ferrous Iron	2.11	2.00	105	90-110		FE 200ppm ICV 00022
14	CCB	13:00	Ferrous Iron	ND					
16	CCV	13:00	Ferrous Iron	2.09	2.00	105	90-110		FE 200ppm ICV 00022
17	CCB	13:00	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 420962 Date: 06/21/2018 20:55							
9056A	MB 480-420962/4	Chloride	ND		mg/L	0.50	1
9056A	MB 480-420962/4	Sulfate	ND		mg/L	2.0	1
Batch ID: 420230 Date: 06/18/2018 13:00							
SM 3500 FE D	MB 480-420230/3	Ferrous Iron	ND		mg/L	0.10	1
Batch ID: 420855 Date: 06/21/2018 10:44							
SM 4500 S2 F	MB 480-420855/3	Sulfide	ND		mg/L	1.0	1

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 420855 Date: 06/21/2018 10:44								
SM 4500 S2 ML-2-D F		480-137605-1	Sulfide	ND	mg/L			
SM 4500 S2 ML-2-D F		480-137605-1 DU	Sulfide	ND	mg/L	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420962 Date: 06/21/2018 20:46											
						LCS Source: IC_ANION_LCS_00207					
9056A	LCS 480-420962/3	Chloride	50.62		mg/L	50.0	101	90-110			
9056A	LCS 480-420962/3	Sulfate	51.34		mg/L	50.0	103	90-110			
Batch ID: 420230 Date: 06/18/2018 13:00											
						LCS Source: FE 200ppm ICV_00022					
SM 3500 FE D	LCS 480-420230/4	Ferrous Iron	1.88		mg/L	2.00	94	90-110			
Batch ID: 420855 Date: 06/21/2018 10:44											
						LCS Source: Sulfide LCS_00238					
SM 4500 S2 F	LCS 480-420855/4	Sulfide	8.80		mg/L	9.20	96	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrite		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrite		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F MDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.67

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F XMDL Date: 02/01/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		1	0.67

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137605-1

SDG Number: _____

Matrix: Water

Instrument ID: LCHAT3

Method: 353.2

MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate		0.05	0.02

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: LCHAT3
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate		0.05	0.02

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job Number: 480-137605-1

SDG Number: _____

Matrix: Water

Instrument ID: IC-2

Method: 9056A

MDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: IC-2
Method: 9056A XMDL Date: 05/13/2016 14:22

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chloride		0.5	0.282
Sulfate		2	0.349

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D MDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.075

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137605-1
SDG Number: _____
Matrix: Water Instrument ID: Genysis Spec2
Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/19/2018 17:10 End Date: 06/19/2018 18:07

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 2 - N															
480-137605-1	1	T	17:10	X															
480-137605-3	1	T	17:11	X															
ZZZZZZ			17:13																
ZZZZZZ			17:14																
ZZZZZZ			17:22																
ZZZZZZ			17:25																
ZZZZZZ			17:26																
ZZZZZZ			17:27																
ZZZZZZ			17:28																
ZZZZZZ			17:36																
ZZZZZZ			17:38																
ZZZZZZ			17:57																
ZZZZZZ			17:58																
ZZZZZZ			18:05																
ZZZZZZ			18:07																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 4500 S2 F

Start Date: 06/21/2018 10:44 End Date: 06/21/2018 10:44

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S 2															
CCV 480-420855/1	1		10:44	X															
CCB 480-420855/2	1		10:44	X															
MB 480-420855/3	1	T	10:44	X															
LCS 480-420855/4	1	T	10:44	X															
ZZZZZZ			10:44																
ZZZZZZ			10:44																
ZZZZZZ			10:44																
ZZZZZZ			10:44																
ZZZZZZ			10:44																
ZZZZZZ			10:44																
480-137605-1	1	T	10:44	X															
480-137605-1 DU	1	T	10:44	X															
CCV 480-420855/13	1		10:44	X															
CCB 480-420855/14	1		10:44	X															
480-137605-3	1	T	10:44	X															
CCV 480-420855/16	1		10:44	X															
CCB 480-420855/17	1		10:44	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Instrument ID: LACHAT3 Method: 353.2

Start Date: 06/19/2018 17:10 End Date: 06/19/2018 20:25

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
480-137605-1	1	T	17:10	X															
480-137605-3	1	T	17:11	X															
ZZZZZZ			17:13																
ZZZZZZ			17:14																
ZZZZZZ			17:22																
ZZZZZZ			17:25																
ZZZZZZ			17:26																
ZZZZZZ			17:27																
ZZZZZZ			17:28																
ZZZZZZ			17:36																
ZZZZZZ			17:38																
ZZZZZZ			17:57																
ZZZZZZ			17:58																
ZZZZZZ			18:05																
ZZZZZZ			18:07																
ZZZZZZ			20:08																
ZZZZZZ			20:09																
ZZZZZZ			20:10																
ZZZZZZ			20:11																
ZZZZZZ			20:12																
ZZZZZZ			20:13																
ZZZZZZ			20:19																
ZZZZZZ			20:20																
ZZZZZZ			20:21																
ZZZZZZ			20:22																
ZZZZZZ			20:23																
ZZZZZZ			20:24																
ZZZZZZ			20:25																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Instrument ID: IC-2 Method: 9056A

Start Date: 06/21/2018 20:30 End Date: 06/22/2018 03:09

Lab Sample ID	D / F	Type	Time	Analytes															
				C L -	S O 4														
CCV 480-420962/1	1		20:30	X	X														
CCB 480-420962/2	1		20:38	X	X														
LCS 480-420962/3	1	T	20:46	X	X														
MB 480-420962/4	1	T	20:55	X	X														
480-137605-1	10	T	21:11	X	X														
480-137605-3	10	T	21:19	X	X														
ZZZZZZ			21:43																
ZZZZZZ			21:52																
ZZZZZZ			22:00																
CCV 480-420962/13	1		22:08	X	X														
CCB 480-420962/14	1		22:16	X	X														
ZZZZZZ			22:57																
ZZZZZZ			23:05																
ZZZZZZ			23:29																
ZZZZZZ			23:38																
CCV 480-420962/25			23:46																
CCB 480-420962/26			23:54																
ZZZZZZ			00:02																
ZZZZZZ			00:10																
CCV 480-420962/37			01:23																
CCB 480-420962/38			01:32																
CCV 480-420962/49			03:01																
CCB 480-420962/50			03:09																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Instrument ID: Genysis Spec2 Method: SM 3500 FE D

Start Date: 06/18/2018 13:00 End Date: 06/18/2018 13:00

Lab Sample ID	D / F	T y p e	Time	Analytes															
				F e r r o n															
CCV 480-420230/1	1		13:00	X															
CCB 480-420230/2	1		13:00	X															
MB 480-420230/3	1	T	13:00	X															
LCS 480-420230/4	1	T	13:00	X															
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
ZZZZZZ			13:00																
480-137605-1	1	T	13:00	X															
CCV 480-420230/13	1		13:00	X															
CCB 480-420230/14	1		13:00	X															
480-137605-3	1	T	13:00	X															
CCV 480-420230/16	1		13:00	X															
CCB 480-420230/17	1		13:00	X															

Prep Types
T = Total/NA

420494 420504 420512 420513

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4253342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD (MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4718089	Exp. 06/19/2018
Nitrite 1.5ppm CCV/ICV/LCS	4718090	Exp. 06/19/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
 Control Limits = 90-110%
 (1.35 mg/L - 1.65 mg/L)

MB/CCB = 0.0mg/L
 Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
 Control Limits = 90-110%

RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up to 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 6/19/18

NO₃

420494

Original Run Filename: OM_6-19-2018_05-02-21PM.OMN Created: 6/19/2018 5:02:21 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-19-2018_05-02-21PM.OMN Last Modified: 6/19/2018 6:16:58 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

DB
6/19/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.50	4.39	0.349	6/19/2018@5:03:26 PM	
Calibration: Table/Fig. : 1							
CCV	1	S9	1.44	4.22	0.334	6/19/2018@5:04:34 PM	
Known Conc:			1.50				
CCB	1	S10	0.0132	-0.157	-0.0109	6/19/2018@5:05:43 PM	
Known Conc:			0.00				
MB	1	S10	0.0158	-0.149	-0.0103	6/19/2018@5:06:51 PM	
Known Conc:			0.00				
LCS	1	S9	1.45	4.25	0.336	6/19/2018@5:07:59 PM	
Known Conc:			1.50				
480-137509-b-1	1	1	0.699	1.94	0.153	6/19/2018@5:09:09 PM	
480-137605-c-1	1	2	0.0194	-0.138	-9.84e-3	6/19/2018@5:10:18 PM	
480-137605-d-3	1	3	0.0229	-0.128	-9.05e-3	6/19/2018@5:11:27 PM	
480-137612-f-5	1	4	0.270	0.628	0.0496	6/19/2018@5:12:36 PM	
480-137612-g-7	1	5	0.0179	-0.143	-0.0100	6/19/2018@5:13:45 PM	
480-137614-g-1	1	6	7.83e-3	-0.174	-0.0106	6/19/2018@5:14:54 PM	
480-137614-g-1 DU	1	7	8.94e-3	-0.170	-0.0107	6/19/2018@5:16:03 PM	
480-137614-g-1 MS	1	8	1.02	2.92	0.233	6/19/2018@5:17:11 PM	
CCV	1	S9	1.44	4.21	0.332	6/19/2018@5:18:20 PM	
Known Conc:			1.50				
CCB	1	S10	4.76e-4	-0.196	-0.0115	6/19/2018@5:19:28 PM	
Known Conc:			0.00				
480-137614-h-2	1	9	1.31	3.80	0.301	6/19/2018@5:20:37 PM	
480-137614-h-3	1	10	0.227	0.498	0.0403	6/19/2018@5:21:45 PM	
480-137635-c-1	1	11	-3.20e-3	-0.208	-0.0114	6/19/2018@5:22:54 PM	
480-137635-c-2	1	12	0.0511	-0.0412	-3.42e-3	6/19/2018@5:24:02 PM	
480-137635-b-3	1	13	4.89e-3	-0.183	-0.0103	6/19/2018@5:25:10 PM	
480-137635-b-4	1	14	-2.51e-3	-0.205	-0.0110	6/19/2018@5:26:18 PM	
480-137635-c-5	1	15	0.0268	-0.116	-5.95e-3	6/19/2018@5:27:26 PM	
480-137635-b-6	1	16	5.89e-3	-0.180	-0.0107	6/19/2018@5:28:35 PM	
480-137636-c-1	1	17	0.782	2.20	0.173	6/19/2018@5:29:44 PM	
480-137636-c-1 MS	1	18	1.79	5.27	0.413	6/19/2018@5:30:53 PM	
CCV	1	S9	1.44	4.22	0.334	6/19/2018@5:32:01 PM	
Known Conc:			1.50				
CCB	1	S10	-3.42e-3	-0.208	-0.0118	6/19/2018@5:33:10 PM	
Known Conc:			0.00				
MB	1	S10	-8.01e-4	-0.200	-0.0116	6/19/2018@5:34:18 PM	
Known Conc:			0.00				
LCS	1	S9	1.46	4.27	0.336	6/19/2018@5:35:26 PM	
Known Conc:			1.50				
480-137636-b-2	1	19	0.0177	-0.144	-7.72e-3	6/19/2018@5:36:35 PM	
480-137636-b-3	1	20	0.0512	-0.0409	-2.62e-3	6/19/2018@5:37:45 PM	
480-137636-b-4	1	21	0.0166	-0.147	-0.0103	6/19/2018@5:38:53 PM	
480-137636-b-4 DU	1	22	1.75e-3	-0.192	-0.0114	6/19/2018@5:40:02 PM	
480-137636-b-4 MS	1	23	1.00	2.88	0.224	6/19/2018@5:41:11 PM	
480-136461-b-2^5	1	24	1.08	3.10	0.245	6/19/2018@5:42:19 PM	
480-136461-b-12^2	1	25	2.40	7.14	0.561	6/19/2018@5:43:27 PM	
480-136552-b-4^5	1	26	1.19	3.46	0.275	6/19/2018@5:44:35 PM	
CCV	1	S9	1.45	4.23	0.332	6/19/2018@5:45:44 PM	
Known Conc:			1.50				
CCB	1	S10	-3.58e-3	-0.209	-0.0119	6/19/2018@5:46:52 PM	
Known Conc:			0.00				
480-136601-b-11	1	27	0.0265	-0.116	-5.44e-3	6/19/2018@5:48:00 PM	
480-136601-b-12	1	28	-3.09e-4	-0.199	-0.0118	6/19/2018@5:49:08 PM	
480-136601-b-13	1	29	6.32e-3	-0.178	-0.0101	6/19/2018@5:50:16 PM	
480-136601-b-14	1	30	0.0110	-0.164	-9.74e-3	6/19/2018@5:51:24 PM	
480-136601-b-14 MS	1	31	0.942	2.69	0.213	6/19/2018@5:52:33 PM	
480-137665-h-1^10	1	32	3.08	9.22	0.720	6/19/2018@5:53:42 PM	

480-137636-b-4 MS
480-136461-b-2^5
480-136461-b-12^2
480-136552-b-4^5

480-136601-b-14 MS

480-137679-b-1	1	33	0.223	0.486	0.0384	6/19/2018@5:54:52 PM
480-137679-b-2	1	34	0.216	0.462	0.0369	6/19/2018@5:56:00 PM
480-137679-b-3	1	35	8.70e-3	-0.171	-0.0108	6/19/2018@5:57:09 PM
480-137679-b-4	1	36	0.0261	-0.118	-8.26e-3	6/19/2018@5:58:18 PM
CCV	1	S9	1.44	4.21	0.329	6/19/2018@5:59:26 PM
		Known Conc:	1.50			
CCB	1	S10	0.0164	-0.147	-0.0103	6/19/2018@6:00:34 PM
		Known Conc:	0.00			
MB	1	S10	7.41e-6	-0.198	-0.0116	6/19/2018@6:01:43 PM
		Known Conc:	0.00			
LCS	1	S9	1.44	4.21	0.331	6/19/2018@6:02:50 PM
		Known Conc:	1.50			
480-137679-b-5	1	37	0.175	0.339	0.0272	6/19/2018@6:03:59 PM
480-137679-b-6	1	38	0.0244	-0.123	-6.24e-3	6/19/2018@6:05:08 PM
480-137679-b-7	1	39	0.103	0.117	0.0101	6/19/2018@6:06:16 PM
480-137679-b-8	1	40	-2.64e-3	-0.206	-0.0118	6/19/2018@6:07:25 PM
480-137679-b-9	1	41	0.0535	-0.0339	-2.59e-3	6/19/2018@6:08:33 PM
480-137679-b-9 DU	1	42	0.0381	-0.0812	-3.29e-3	6/19/2018@6:09:41 PM
480-137679-b-9 MS	1	43	1.03	2.95	0.229	6/19/2018@6:10:49 PM
480-137665-h-1*20	1	44	1.52	4.45	0.350	6/19/2018@6:11:57 PM
CCV	1	S9	1.42	4.15	0.327	6/19/2018@6:13:05 PM
		Known Conc:	1.50			
CCB	1	S10	1.79e-3	-0.192	-0.0108	6/19/2018@6:14:13 PM
		Known Conc:	0.00			
480-137679-b-1	1	45	0.227	0.496	0.0387	6/19/2018@6:15:21 PM

50 mg Sample

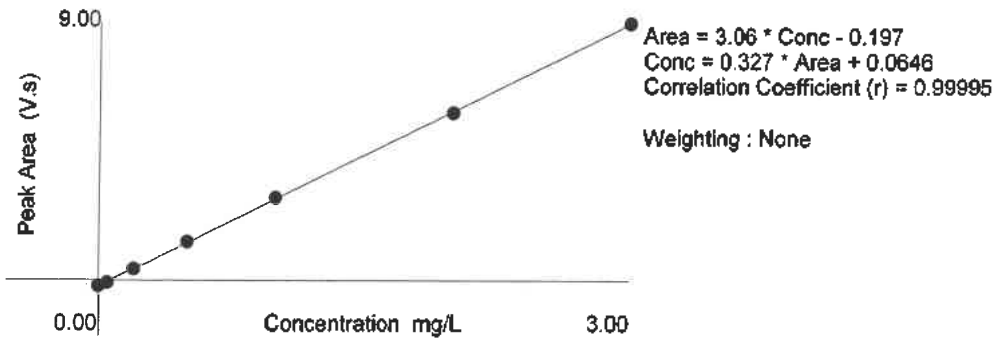
Analyte Properties Table for : OM_6-19-2018_05-02-21PM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.00	0.713	0.0	-0.1	3.00	6/19/2018	4:38:31 PM
2	2.00	1	5.88	0.465	0.0	0.8	1.98	6/19/2018	4:39:40 PM
3	1.00	1	2.91	0.231	0.0	-1.7	1.02	6/19/2018	4:40:48 PM
4	0.500	1	1.36	0.110	0.0	-2.3	0.510	6/19/2018	4:41:57 PM
5	0.200	1	0.399	0.0321	0.0	3.7	0.195	6/19/2018	4:43:07 PM
6	0.0500	1	-0.0806	-3.47e-3	0.0	-81.7	0.0382	6/19/2018	4:44:16 PM
7	0.00	1	-0.191	-0.0111			2.33e-3	6/19/2018	4:45:25 PM

Figure : 1 (Nitrate/Nitrite)



NO₂ 420504

Original Run Filename: OM_6-19-2018_08-02-39PM.OMN Created: 6/19/2018 8:02:39 PM
 Original Run Author's Signature: [Buflachat3]
 Current Run Filename: OM_6-19-2018_08-02-39PM.OMN Last Modified: 6/19/2018 8:34:54 PM
 Current Run Author's Signature: [Buflachat3]
 Description: Default New Run

DB
6/19/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite				
			Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.45	4.64	0.500	6/19/2018@8:03:44 PM	
Known Conc:			100				
Calibration:			Table/Fig. : 1				
CCB	1	S10	-3.34e-3	-0.123	-7.94e-3	6/19/2018@8:04:50 PM	
Known Conc:			100				
MB	1	S10	-3.09e-3	-0.124	-7.86e-3	6/19/2018@8:05:57 PM	
Known Conc:			100				
LCS	1	S11	1.42	4.54	0.492	6/19/2018@8:07:03 PM	
Known Conc:			100				
480-137509-b-1	1	1	0.736	2.35	0.251	6/19/2018@8:08:10 PM	
480-137612-f-5	1	2	-2.81e-3	-0.128	-7.76e-3	6/19/2018@8:09:17 PM	
480-137614-h-2	1	3	0.152	0.433	0.0465	6/19/2018@8:10:24 PM	
480-137614-h-3	1	4	7.26e-3	-0.0501	-4.23e-3	6/19/2018@8:11:30 PM	
480-137635-c-2	1	5	0.0297	-0.0220	3.62e-3	6/19/2018@8:12:37 PM	
480-137636-c-1	1	6	6.57e-3	-0.0803	-4.47e-3	6/19/2018@8:13:44 PM	
480-137636-c-1 DU	1	7	5.83e-3	-0.0757	-4.73e-3	6/19/2018@8:14:50 PM	
480-137636-c-1 MS	1	8	0.977	3.11	0.336	6/19/2018@8:15:56 PM	
CCV	1	S11	1.44	4.60	0.498	6/19/2018@8:17:03 PM	
Known Conc:			100				
CCB	1	S10	-2.82e-3	-0.118	-7.76e-3	6/19/2018@8:18:09 PM	
Known Conc:			100				
480-137636-b-3	1	9	-8.75e-3	-0.153	-9.84e-3	6/19/2018@8:19:15 PM	
480-137665-h-1	1	10	0.0307	-0.0121	3.98e-3	6/19/2018@8:20:21 PM	
480-137679-b-1	1	11	0.157	0.463	0.0484	6/19/2018@8:21:27 PM	
480-137679-b-2	1	12	-3.02e-3	-0.139	-7.83e-3	6/19/2018@8:22:33 PM	
480-137679-b-5	1	13	0.0781	0.202	0.0206	6/19/2018@8:23:39 PM	
480-137679-b-7	1	14	0.0333	-0.0468	4.91e-3	6/19/2018@8:24:44 PM	
480-137679-b-9	1	15	0.0272	-0.0352	2.75e-3	6/19/2018@8:25:50 PM	
480-137679-b-9 MS	1	16	0.875	2.86	0.300	6/19/2018@8:26:57 PM	
CCV	1	S11	1.43	4.60	0.493	6/19/2018@8:28:03 PM	
Known Conc:			100				
CCB	1	S10	-4.79e-3	-0.134	-8.45e-3	6/19/2018@8:29:09 PM	
Known Conc:			100				
480-137509-b-1	1	19	0.737	2.36	0.252	6/19/2018@8:30:16 PM	
480-137614-h-2	1	20	0.154	0.435	0.0471	6/19/2018@8:31:23 PM	
480-137679-b-1	1	21	0.160	0.465	0.0492	6/19/2018@8:32:29 PM	
480-137679-b-5	1	22	0.0811	0.209	0.0217	6/19/2018@8:33:35 PM	

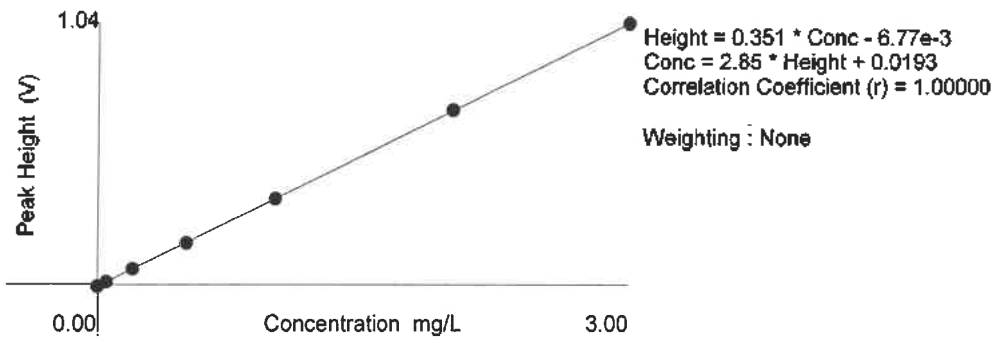
Analyte Properties Table for : OM_6-19-2018_08-02-39PM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.50	1.04	0.0	0.1	3.00	6/19/2018	4:11:50 PM
2	2.00	1	6.33	0.696	0.0	-0.3	2.01	6/19/2018	4:12:56 PM
3	1.00	1	3.11	0.343	0.0	0.1	0.999	6/19/2018	4:14:02 PM
4	0.500	1	1.52	0.168	0.0	0.5	0.498	6/19/2018	4:15:09 PM
5	0.200	1	0.579	0.0640	0.0	-1.0	0.202	6/19/2018	4:16:16 PM
6	0.0500	1	0.0949	0.0106	0.0	1.7	0.0495	6/19/2018	4:17:24 PM
7	0.00	1	-0.114	-6.98e-3			-5.85e-4	6/19/2018	4:18:30 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 420494

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Data		Fail Client Limits
									Fail 3-Sigma Limits	Fail	
480-136461-B-12	2GMMW-23	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	7	2.0	4.8	4.4	<input checked="" type="checkbox"/>	0-2.16 <i>confirmed</i>
480-136461-B-2	5 GMMW-26	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	8	5.0	5.4		<input type="checkbox"/>	3.44 - 8.16
480-136552-B-4	5 GMMW-30	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	8	5.0	6.0	6.25	<input checked="" type="checkbox"/>	1.2 - 2.16 <i>confirmed</i>
480-136601-B-11	MW-273	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	0.027		<input checked="" type="checkbox"/>	0-0 OK
480-136601-B-12	MW-274	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND		<input type="checkbox"/>	0-0
480-136601-B-13	MW-275	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND		<input type="checkbox"/>	0-0
480-136601-B-14	MW-276	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND		<input checked="" type="checkbox"/>	0.016 - 0.024 <i>ok</i>
480-137612-F-5	YSP09	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.27		<input type="checkbox"/>	0.224 - 0.648
480-137612-G-7	01FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND		<input type="checkbox"/>	0-0
480-137614-G-1	02FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND		<input type="checkbox"/>	0-0
480-137614-H-2	ST-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.3		<input type="checkbox"/>	0-0
480-137614-H-3	ST-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.23		<input type="checkbox"/>	0.656 - 2.04
480-137635-B-3	98-188-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0.72
480-137635-B-4	98-188-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0
480-137635-B-6	98-187-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0
480-137635-C-1	98-194-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0.408
480-137635-C-2	98-188-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.051		<input type="checkbox"/>	0-0
480-137635-C-5	98-183-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-3.6
480-137636-B-2	93-181-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0
480-137636-B-3	93-178-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0.065
480-137636-B-4	93-178-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.051		<input type="checkbox"/>	0-1.32
480-137636-C-1	93-181-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0
480-137679-B-1	172R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.78		<input type="checkbox"/>	0.088 - 2.04
480-137679-B-2	413R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.22	0.220327	<input checked="" type="checkbox"/>	0-0.089 <i>confirmed</i>
480-137679-B-3	173R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0.054 - 0.3
480-137679-B-4	171R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0
480-137679-B-5	169R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.18		<input type="checkbox"/>	0-0
480-137679-B-6	170R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0.046 - 0.204
480-137679-B-7	302R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.10		<input type="checkbox"/>	0-0
480-137679-B-8	301R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND		<input type="checkbox"/>	0-0.18
480-137679-B-9	300R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.054		<input type="checkbox"/>	0-0

Historical Data Summary Report

For Batch 420504

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-137612-F-5	YSP09	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137614-H-2	ST-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.15	<input type="checkbox"/> 0 - 0.253	<input type="checkbox"/> 0 - 0.168
480-137614-H-3	ST-5	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137635-C-2	98-188-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 2.696	<input type="checkbox"/> 0 - 2.88
480-137636-B-3	93-178-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137636-C-1	93-181-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.248	<input type="checkbox"/> 0 - 0.228
480-137665-H-1	Outfall 001	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	<0.0500	<input type="checkbox"/> 0 - 0.239	<input checked="" type="checkbox"/> 0.04 - 0.221 o/c
480-137679-B-1	172R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.16	<input checked="" type="checkbox"/> 0 - 0	<input checked="" type="checkbox"/> 0 - 0
480-137679-B-2	413R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137679-B-5	169R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.078	<input type="checkbox"/> 0.032 - 0.139	<input type="checkbox"/> 0.048 - 0.132
480-137679-B-7	302R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.228	<input type="checkbox"/> 0 - 0.204
480-137679-B-9	300R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.849	<input type="checkbox"/> 0 - 0.912

Historical Data Summary Report

For Batch 420512

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-137612-G-7	01FB	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137614-G-1	02FB	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137635-B-3	98-188-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137635-B-4	98-188-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137635-B-6	98-187-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0.387	<input type="checkbox"/> 0-0.408
480-137635-C-1	98-194-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137635-C-5	98-193-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137636-B-2	93-181-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137636-B-4	93-178-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137679-B-3	173R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137679-B-4	171R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137679-B-6	170R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137679-B-8	301R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

Revision 2 October 2016

Analyst	MJB
Date	6/21/2018
Start Time	10:44
End Time	11:55

Batch	420355
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Standard Information		
Reagent	Normality	ID
Iodine Solution	0.025	4449717
Sodium Thiosulfate	0.025	4487459
Starch Indicator	NA	4454657
HCL	NA	4716898

Standard Information	
CCV ID	4723423
Stock Conc.	1000
CCV Conc	10.00
LCS ID	4723424
Stock Conc.	920
LCS Conc	9.20

Reporting Limit Information (mg/L)	
EQL	1.0

EPPENDORFS
L39118G
Q38829C
L11230D

Job #	Sample ID	Sample Volume (mL)	Iodine Volume (ml)	Starting Point of Titrant on Burette		Ending Point of Titrant on Burette	Na2S2O3 Titrant (mL)	Final Sulfide conc. mg/l	Recovery %	Comments
				Burette	Burette					
CCV	CCV	100	5	0.00	2.50	2.50	2.50	10.00	100.00	
CCB	CCB	100	1	2.50	3.50	3.50	1.00	0.00		
Blank	MB	100	1	3.50	4.50	4.50	1.00	0.00		
LCS	LCS	100	5	4.50	7.30	7.30	2.80	8.80	95.65	
137527	A1	100	1	7.30	8.30	8.30	1.00	0.00		
137527	A2	100	1	8.30	9.30	9.30	1.00	0.00		
137546	E6	100	1	9.30	10.30	10.30	1.00	0.00		
137546	E7	100	1	10.30	11.30	11.30	1.00	0.00		
137546	E7-MS	100	2	11.30	12.60	12.60	1.30	2.80		
137546	E8	100	1	12.60	13.60	13.60	1.00	0.00		
137605	A1	100	1	13.60	14.60	14.60	1.00	0.00		
137605	A1-DU	100	1	14.60	15.60	15.60	1.00	0.00		
CCV	CCV	100	5	15.60	18.10	18.10	2.50	10.00	100.00	
CCB	CCB	100	1	18.10	19.10	19.10	1.00	0.00		
137605	A3	100	1	19.10	20.10	20.10	1.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
		100					0.00	0.00		
CCV	CCV	100	5	20.10	22.50	22.50	2.40	10.40	104.00	
CCB	CCB	100	1	22.50	23.50	23.50	1.00	0.00		
MB	MB	100					0.00	0.00		
LCS	LCS	100					0.00	0.00	0.00	
		100					0.00	0.00		
		100					0.00	0.00		

Sulfide Stock Solution Standardization
for method SM 4500 S2F

Add 5.0 mL of 0.025N iodine solution to a 250 mL flask
 Add 1.0 mL of 6N HCl
 Add 1.0 mL of 1000 ppm pre-certified Sodium Sulfide below the surface of the Iodine solution
 Dilute to 100 mL with reagent water
 Add 1 dropper of starch indicator
 Titrate with 0.025N Sodium Thiosulfate until the endpoint is reached (blue color disappears)

Repeat twice and average the results

The standardized sodium sulfide concentration is calculated as follows:

$$S = [(A \times B) - (C \times D)] \times 16,000 / E$$

Where:

- A = Volume of iodine solution (5.0 mL)
- B = Normality of iodine solution (0.025N)
- C = Volume of Na₂S₂O₃ solution (Determined by standardization)
- D = Normality of Na₂S₂O₃ solution (0.025N)
- E = Volume of sulfide stock (1.0 mL)
- S = Concentration of sulfide stock

The standardization procedure must be completed for both the primary source standard used for the CCV/MS and the secondary source standard for the LCS

Date:	<input type="text" value="6/21/2018"/>	0.025N Iodine	<u>TALS ID:</u>
		0.025N Sodium Thiosulfate	4449717
			4487459

CCV/MS

mL Na₂S₂O₃ used for Titration 1: 2.50
 mL Na₂S₂O₃ used for Titration 1: 2.50
 Avg mL:

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under CCV "Stock Conc."
 STOCK Reagent ID 4675836 The actual concentration of the CCV will calculate automatically
 NEW Reagent ID (CCV/MS) 4723423

LCS

mL Na₂S₂O₃ used for Titration 1: 2.70
 mL Na₂S₂O₃ used for Titration 1: 2.70
 Avg mL:

Sodium Sulfide Concentration (mg/L): ENTER in S2F spreadsheet under LCS "Stock Conc."
 STOCK Reagent ID 4683225 The actual concentration of the LCS will calculate automatically
 NEW Reagent ID (LCS) 4723424

Historical Data Summary Report

For Batch 420855

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-137546-E-6	MW2SR	SMA500_S2_Sulfide	S2_Sulfide	Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-7	MW40DR	SMA500_S2_Sulfide	S2_Sulfide	Total/NA	ug/L	5	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0
480-137546-E-8	DUP3	SMA500_S2_Sulfide	S2_Sulfide	Total/NA	ug/L	2	1.0	ND	<input type="checkbox"/> 0-0	<input type="checkbox"/> 0-0

420494 420504 420512 420513

Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

<u>Solutions #</u>		
Nitrate, NO3/NO2 1000mg/L STD: (CAL)	3877011	Exp. 06/30/2018
Nitrate 1000mg/L STD (CCV/LCS/ICV)	4253342	Exp. 01/31/2019
Nitrite 1000mg/L STD (CAL)	3852394	Exp. 06/30/2018
Nitrite 1000mg/L STD (CCV/LCS/ICV)	4468957	Exp. 07/31/2018
Nitrate, Nitrate/Nitrite Int STD (MS)	4713314	Exp. 06/22/2018
Nitrite Int STD (MS)	4713313	Exp. 06/22/2018
Nitrate 1.5ppm CCV/ICV/LCS	4718089	Exp. 06/19/2018
Nitrite 1.5ppm CCV/ICV/LCS	4718090	Exp. 06/19/2018
Ammonium Chloride Buffer	4627622	Exp. 07/06/2018
Color Reagent	4627623	Exp. 06/24/2018
1:4 Ammonium Hydroxide	4681200	Exp. 11/29/2018

Quality Control Limits

LCS/CCV = 1.5mg/L
 Control Limits = 90-110%
 (1.35 mg/L - 1.65 mg/L)

MB/CCB = 0.0mg/L
 Control Limits <0.05mg/ >-0.05mg/L

MS/MSD = 1.0mg/L
 Control Limits = 90-110%

RPD Control Limits <20%

Nitrate/Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrate/Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up to 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrate/Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Nitrite Calibration curve:

- 3.0ppm – 150ul of 1000ppm Nitrite up to 50ml with DI water
- 2.0ppm – 100ul of 1000ppm Nitrite up to 50ml with DI water
- 1.0 ppm – 50ul of 1000ppm Nitrite up to 50ml with DI water
- .5ppm – 5ml of 1.0ppm up to 10ml with DI water
- .2 ppm – 5ml of 2.0ppm up too 50ml with DI water
- .05 ppm – 5ml of .2ppm up 20ml With DI water
- ICV- 150ul of second source 1000ppm Nitrite standard up too 100 ml with DI
- CCVL -- .05 ppm – 5ml of .2ppm up 20ml With DI water

Residual chlorine check of samples DB 6/19/18

NO₃

420494

Original Run Filename: OM_6-19-2018_05-02-21PM.OMN Created: 6/19/2018 5:02:21 PM
Original Run Author's Signature: [BufLachat3]
Current Run Filename: OM_6-19-2018_05-02-21PM.OMN Last Modified: 6/19/2018 6:16:58 PM
Current Run Author's Signature: [BufLachat3]
Description: Default New Run

DB
6/19/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)		
NO2	1	S11	1.50	4.39	0.349	6/19/2018@5:03:26 PM	
Calibration: Table/Fig. : 1							
CCV	1	S9	1.44	4.22	0.334	6/19/2018@5:04:34 PM	
Known Conc:			1.50				
CCB	1	S10	0.0132	-0.157	-0.0109	6/19/2018@5:05:43 PM	
Known Conc:			0.00				
MB	1	S10	0.0158	-0.149	-0.0103	6/19/2018@5:06:51 PM	
Known Conc:			0.00				
LCS	1	S9	1.45	4.25	0.336	6/19/2018@5:07:59 PM	
Known Conc:			1.50				
480-137509-b-1	1	1	0.699	1.94	0.153	6/19/2018@5:09:09 PM	
480-137605-c-1	1	2	0.0194	-0.138	-9.84e-3	6/19/2018@5:10:18 PM	
480-137605-d-3	1	3	0.0229	-0.128	-9.05e-3	6/19/2018@5:11:27 PM	
480-137612-f-5	1	4	0.270	0.628	0.0496	6/19/2018@5:12:36 PM	
480-137612-g-7	1	5	0.0179	-0.143	-0.0100	6/19/2018@5:13:45 PM	
480-137614-g-1	1	6	7.83e-3	-0.174	-0.0106	6/19/2018@5:14:54 PM	
480-137614-g-1 DU	1	7	8.94e-3	-0.170	-0.0107	6/19/2018@5:16:03 PM	
480-137614-g-1 MS	1	8	1.02	2.92	0.233	6/19/2018@5:17:11 PM	
CCV	1	S9	1.44	4.21	0.332	6/19/2018@5:18:20 PM	
Known Conc:			1.50				
CCB	1	S10	4.76e-4	-0.196	-0.0115	6/19/2018@5:19:28 PM	
Known Conc:			0.00				
480-137614-h-2	1	9	1.31	3.80	0.301	6/19/2018@5:20:37 PM	
480-137614-h-3	1	10	0.227	0.498	0.0403	6/19/2018@5:21:45 PM	
480-137635-c-1	1	11	-3.20e-3	-0.208	-0.0114	6/19/2018@5:22:54 PM	
480-137635-c-2	1	12	0.0511	-0.0412	-3.42e-3	6/19/2018@5:24:02 PM	
480-137635-b-3	1	13	4.89e-3	-0.183	-0.0103	6/19/2018@5:25:10 PM	
480-137635-b-4	1	14	-2.51e-3	-0.205	-0.0110	6/19/2018@5:26:18 PM	
480-137635-c-5	1	15	0.0268	-0.116	-5.95e-3	6/19/2018@5:27:26 PM	
480-137635-b-6	1	16	5.89e-3	-0.180	-0.0107	6/19/2018@5:28:35 PM	
480-137636-c-1	1	17	0.782	2.20	0.173	6/19/2018@5:29:44 PM	
480-137636-c-1 MS	1	18	1.79	5.27	0.413	6/19/2018@5:30:53 PM	
CCV	1	S9	1.44	4.22	0.334	6/19/2018@5:32:01 PM	
Known Conc:			1.50				
CCB	1	S10	-3.42e-3	-0.208	-0.0118	6/19/2018@5:33:10 PM	
Known Conc:			0.00				
MB	1	S10	-8.01e-4	-0.200	-0.0116	6/19/2018@5:34:18 PM	
Known Conc:			0.00				
LCS	1	S9	1.46	4.27	0.336	6/19/2018@5:35:26 PM	
Known Conc:			1.50				
480-137636-b-2	1	19	0.0177	-0.144	-7.72e-3	6/19/2018@5:36:35 PM	
480-137636-b-3	1	20	0.0512	-0.0409	-2.62e-3	6/19/2018@5:37:45 PM	
480-137636-b-4	1	21	0.0166	-0.147	-0.0103	6/19/2018@5:38:53 PM	
480-137636-b-4 DU	1	22	1.75e-3	-0.192	-0.0114	6/19/2018@5:40:02 PM	
480-137636-b-4 MS	1	23	1.00	2.88	0.224	6/19/2018@5:41:11 PM	
480-136461-b-2^5	1	24	1.08	3.10	0.245	6/19/2018@5:42:19 PM	
480-136461-b-12^2	1	25	2.40	7.14	0.561	6/19/2018@5:43:27 PM	
480-136552-b-4^5	1	26	1.19	3.46	0.275	6/19/2018@5:44:35 PM	
CCV	1	S9	1.45	4.23	0.332	6/19/2018@5:45:44 PM	
Known Conc:			1.50				
CCB	1	S10	-3.58e-3	-0.209	-0.0119	6/19/2018@5:46:52 PM	
Known Conc:			0.00				
480-136601-b-11	1	27	0.0265	-0.116	-5.44e-3	6/19/2018@5:48:00 PM	
480-136601-b-12	1	28	-3.09e-4	-0.199	-0.0118	6/19/2018@5:49:08 PM	
480-136601-b-13	1	29	6.32e-3	-0.178	-0.0101	6/19/2018@5:50:16 PM	
480-136601-b-14	1	30	0.0110	-0.164	-9.74e-3	6/19/2018@5:51:24 PM	
480-136601-b-14 MS	1	31	0.942	2.69	0.213	6/19/2018@5:52:33 PM	
480-137665-h-1^10	1	32	3.08	9.22	0.720	6/19/2018@5:53:42 PM	

480-137636-b-4 MS
480-136461-b-2^5
480-136461-b-12^2
480-136552-b-4^5

480-136601-b-14 MS

480-137679-b-1	1	33	0.223	0.486	0.0384	6/19/2018@5:54:52 PM
480-137679-b-2	1	34	0.216	0.462	0.0369	6/19/2018@5:56:00 PM
480-137679-b-3	1	35	8.70e-3	-0.171	-0.0108	6/19/2018@5:57:09 PM
480-137679-b-4	1	36	0.0261	-0.118	-8.26e-3	6/19/2018@5:58:18 PM
CCV	1	S9	1.44	4.21	0.329	6/19/2018@5:59:26 PM
		Known Conc:	1.50			
CCB	1	S10	0.0164	-0.147	-0.0103	6/19/2018@6:00:34 PM
		Known Conc:	0.00			
MB	1	S10	7.41e-6	-0.198	-0.0116	6/19/2018@6:01:43 PM
		Known Conc:	0.00			
LCS	1	S9	1.44	4.21	0.331	6/19/2018@6:02:50 PM
		Known Conc:	1.50			
480-137679-b-5	1	37	0.175	0.339	0.0272	6/19/2018@6:03:59 PM
480-137679-b-6	1	38	0.0244	-0.123	-6.24e-3	6/19/2018@6:05:08 PM
480-137679-b-7	1	39	0.103	0.117	0.0101	6/19/2018@6:06:16 PM
480-137679-b-8	1	40	-2.64e-3	-0.206	-0.0118	6/19/2018@6:07:25 PM
480-137679-b-9	1	41	0.0535	-0.0339	-2.59e-3	6/19/2018@6:08:33 PM
480-137679-b-9 DU	1	42	0.0381	-0.0812	-3.29e-3	6/19/2018@6:09:41 PM
480-137679-b-9 MS	1	43	1.03	2.95	0.229	6/19/2018@6:10:49 PM
480-137665-h-1*20	1	44	1.52	4.45	0.350	6/19/2018@6:11:57 PM
CCV	1	S9	1.42	4.15	0.327	6/19/2018@6:13:05 PM
		Known Conc:	1.50			
CCB	1	S10	1.79e-3	-0.192	-0.0108	6/19/2018@6:14:13 PM
		Known Conc:	0.00			
480-137679-b-1	1	45	0.227	0.496	0.0387	6/19/2018@6:15:21 PM

50 mg Sample

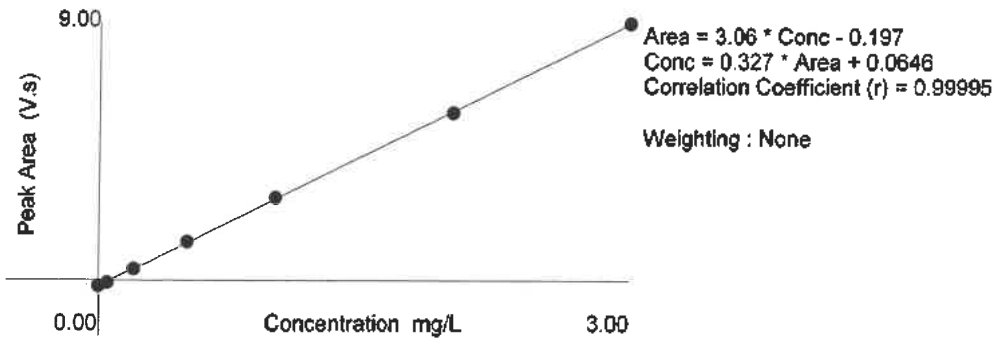
Analyte Properties Table for : OM_6-19-2018_05-02-21PM.OMN

Property	Channel 2
	Nitrate/Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	21
Peak Base Width	41

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.00	0.713	0.0	-0.1	3.00	6/19/2018	4:38:31 PM
2	2.00	1	5.88	0.465	0.0	0.8	1.98	6/19/2018	4:39:40 PM
3	1.00	1	2.91	0.231	0.0	-1.7	1.02	6/19/2018	4:40:48 PM
4	0.500	1	1.36	0.110	0.0	-2.3	0.510	6/19/2018	4:41:57 PM
5	0.200	1	0.399	0.0321	0.0	3.7	0.195	6/19/2018	4:43:07 PM
6	0.0500	1	-0.0806	-3.47e-3	0.0	-81.7	0.0382	6/19/2018	4:44:16 PM
7	0.00	1	-0.191	-0.0111			2.33e-3	6/19/2018	4:45:25 PM

Figure : 1 (Nitrate/Nitrite)



NO₂ 420504

Original Run Filename: OM_6-19-2018_08-02-39PM.OMN Created: 6/19/2018 8:02:39 PM
 Original Run Author's Signature: [Buflachat3]
 Current Run Filename: OM_6-19-2018_08-02-39PM.OMN Last Modified: 6/19/2018 8:34:54 PM
 Current Run Author's Signature: [Buflachat3]
 Description: Default New Run

DB
6/19/18

Sample	Rep.	Cup No.	Channel 2			Detection Time	MDF
			Nitrite				
			Conc. (mg/L)	Area (V.s)	Height (V)		
CCV	1	S11	1.45	4.64	0.500	6/19/2018@8:03:44 PM	
Known Conc:			100				
Calibration:			Table/Fig. : 1				
CCB	1	S10	-3.34e-3	-0.123	-7.94e-3	6/19/2018@8:04:50 PM	
Known Conc:			100				
MB	1	S10	-3.09e-3	-0.124	-7.86e-3	6/19/2018@8:05:57 PM	
Known Conc:			100				
LCS	1	S11	1.42	4.54	0.492	6/19/2018@8:07:03 PM	
Known Conc:			100				
480-137509-b-1	1	1	0.736	2.35	0.251	6/19/2018@8:08:10 PM	
480-137612-f-5	1	2	-2.81e-3	-0.128	-7.76e-3	6/19/2018@8:09:17 PM	
480-137614-h-2	1	3	0.152	0.433	0.0465	6/19/2018@8:10:24 PM	
480-137614-h-3	1	4	7.26e-3	-0.0501	-4.23e-3	6/19/2018@8:11:30 PM	
480-137635-c-2	1	5	0.0297	-0.0220	3.62e-3	6/19/2018@8:12:37 PM	
480-137636-c-1	1	6	6.57e-3	-0.0803	-4.47e-3	6/19/2018@8:13:44 PM	
480-137636-c-1 DU	1	7	5.83e-3	-0.0757	-4.73e-3	6/19/2018@8:14:50 PM	
480-137636-c-1 MS	1	8	0.977	3.11	0.336	6/19/2018@8:15:56 PM	
CCV	1	S11	1.44	4.60	0.498	6/19/2018@8:17:03 PM	
Known Conc:			100				
CCB	1	S10	-2.82e-3	-0.118	-7.76e-3	6/19/2018@8:18:09 PM	
Known Conc:			100				
480-137636-b-3	1	9	-8.75e-3	-0.153	-9.84e-3	6/19/2018@8:19:15 PM	
480-137665-h-1	1	10	0.0307	-0.0121	3.98e-3	6/19/2018@8:20:21 PM	
480-137679-b-1	1	11	0.157	0.463	0.0484	6/19/2018@8:21:27 PM	
480-137679-b-2	1	12	-3.02e-3	-0.139	-7.83e-3	6/19/2018@8:22:33 PM	
480-137679-b-5	1	13	0.0781	0.202	0.0206	6/19/2018@8:23:39 PM	
480-137679-b-7	1	14	0.0333	-0.0468	4.91e-3	6/19/2018@8:24:44 PM	
480-137679-b-9	1	15	0.0272	-0.0352	2.75e-3	6/19/2018@8:25:50 PM	
480-137679-b-9 MS	1	16	0.875	2.86	0.300	6/19/2018@8:26:57 PM	
CCV	1	S11	1.43	4.60	0.493	6/19/2018@8:28:03 PM	
Known Conc:			100				
CCB	1	S10	-4.79e-3	-0.134	-8.45e-3	6/19/2018@8:29:09 PM	
Known Conc:			100				
480-137509-b-1	1	19	0.737	2.36	0.252	6/19/2018@8:30:16 PM	
480-137614-h-2	1	20	0.154	0.435	0.0471	6/19/2018@8:31:23 PM	
480-137679-b-1	1	21	0.160	0.465	0.0492	6/19/2018@8:32:29 PM	
480-137679-b-5	1	22	0.0811	0.209	0.0217	6/19/2018@8:33:35 PM	

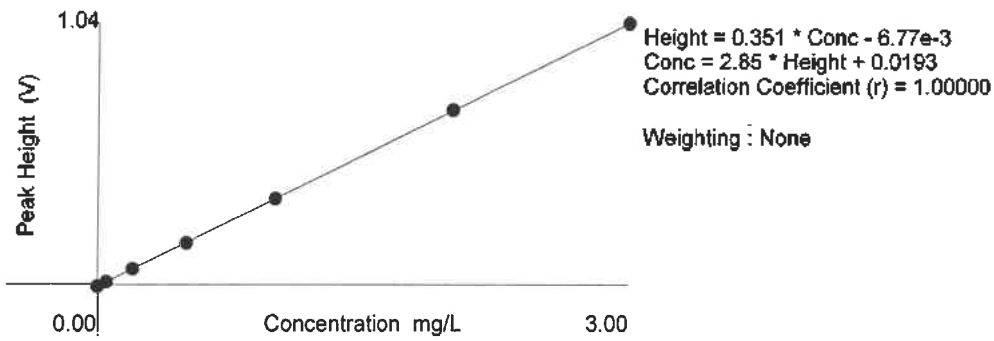
Analyte Properties Table for : OM_6-19-2018_08-02-39PM.OMN

Property	Channel 2
	Nitrite
Concentration Units	mg/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	None
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-107-04-1-J
Chemistry	Direct/Bipolar
Calibration by Height	Yes
Inject to Peak Start	3
Peak Base Width	41

Table : 1 (Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	9.50	1.04	0.0	0.1	3.00	6/19/2018	4:11:50 PM
2	2.00	1	6.33	0.696	0.0	-0.3	2.01	6/19/2018	4:12:56 PM
3	1.00	1	3.11	0.343	0.0	0.1	0.999	6/19/2018	4:14:02 PM
4	0.500	1	1.52	0.168	0.0	0.5	0.498	6/19/2018	4:15:09 PM
5	0.200	1	0.579	0.0640	0.0	-1.0	0.202	6/19/2018	4:16:16 PM
6	0.0500	1	0.0949	0.0106	0.0	1.7	0.0495	6/19/2018	4:17:24 PM
7	0.00	1	-0.114	-6.98e-3			-5.85e-4	6/19/2018	4:18:30 PM

Figure : 1 (Nitrite)



Historical Data Summary Report

For Batch 420494

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-136461-B-12	2GMMW-23	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	7	2.0	4.8	<input checked="" type="checkbox"/> 0 - 2.264	<input checked="" type="checkbox"/> 0 - 2.16 <i>confirmed</i>
480-136461-B-2	5 GMMW-26	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	8	5.0	5.4	<input type="checkbox"/> 2.946 - 8.379	<input type="checkbox"/> 3.44 - 8.16
480-136552-B-4	5 GMMW-30	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	8	5.0	6.0	<input checked="" type="checkbox"/> 1.297 - 1.928	<input checked="" type="checkbox"/> 1.2 - 2.16 <i>confirmed</i>
480-136601-B-11	MW-273	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	0.027	<input checked="" type="checkbox"/> 0 - 0	<input checked="" type="checkbox"/> 0 - 0 <i>OK</i>
480-136601-B-12	MW-274	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-136601-B-13	MW-275	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-136601-B-14	MW-276	353.2_Pres	Nitrate Nitrite as N	Total/NA	mg/L	1	1.0	ND	<input checked="" type="checkbox"/> 0.02 - 0.02	<input checked="" type="checkbox"/> 0.016 - 0.024 <i>OK</i>
480-137612-F-5	YSP09	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.27	<input type="checkbox"/> 0.038 - 0.677	<input type="checkbox"/> 0.224 - 0.648
480-137612-G-7	01FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137614-G-1	02FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137614-H-2	ST-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	1.3	<input type="checkbox"/> 0.315 - 2.195	<input type="checkbox"/> 0.656 - 2.04
480-137614-H-3	ST-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	8	1.0	0.23	<input type="checkbox"/> 0 - 1.043	<input type="checkbox"/> 0 - 0.72
480-137635-B-3	98-188-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137635-B-4	98-188-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137635-B-6	98-187-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137635-C-1	98-194-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.399	<input type="checkbox"/> 0 - 0.408
480-137635-C-2	98-188-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.051	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137635-C-5	98-183-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 3.476	<input type="checkbox"/> 0 - 3.6
480-137636-B-2	93-181-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137636-B-3	93-178-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.081	<input type="checkbox"/> 0 - 0.065
480-137636-B-4	93-178-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.051	<input type="checkbox"/> 0 - 1.239	<input type="checkbox"/> 0 - 1.32
480-137636-C-1	93-181-2	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137679-B-1	172R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.78	<input type="checkbox"/> 0 - 2.072	<input type="checkbox"/> 0.088 - 2.04
480-137679-B-2	413R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.22	<input checked="" type="checkbox"/> 0 - 0.083	<input checked="" type="checkbox"/> 0 - 0.089 <i>confirmed</i>
480-137679-B-3	173R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.327	<input type="checkbox"/> 0.054 - 0.3 <i>same batch</i>
480-137679-B-4	171R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137679-B-5	169R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.18	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137679-B-6	170R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.24	<input type="checkbox"/> 0.046 - 0.204
480-137679-B-7	302R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.10	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137679-B-8	301R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.23	<input type="checkbox"/> 0 - 0.18
480-137679-B-9	300R	353.2	Nitrate Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.054	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0

Historical Data Summary Report

For Batch 420504

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-137612-F-5	YSP09	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137614-H-2	ST-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	0.15	<input type="checkbox"/> 0 - 0.253	<input type="checkbox"/> 0 - 0.168
480-137614-H-3	ST-5	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137635-C-2	98-188-1	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 2.696	<input type="checkbox"/> 0 - 2.88
480-137636-B-3	93-178-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137636-C-1	93-181-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.248	<input type="checkbox"/> 0 - 0.228
480-137665-H-1	Outfall 001	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	<0.0500	<input type="checkbox"/> 0 - 0.239	<input checked="" type="checkbox"/> 0.04 - 0.221 o/c
480-137679-B-1	172R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.16	<input checked="" type="checkbox"/> 0 - 0	<input checked="" type="checkbox"/> 0 - 0
480-137679-B-2	413R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0	<input type="checkbox"/> 0 - 0
480-137679-B-5	169R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	0.078	<input type="checkbox"/> 0.032 - 0.139	<input type="checkbox"/> 0.048 - 0.132
480-137679-B-7	302R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.228	<input type="checkbox"/> 0 - 0.204
480-137679-B-9	300R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8	8	1.0	ND	<input type="checkbox"/> 0 - 0.849	<input type="checkbox"/> 0 - 0.912

Historical Data Summary Report

For Batch 420512

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-137612-G-7	01FB	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	0-0
480-137614-G-1	02FB	353.2_Nitrite	Nitrite as N	Total/NA	mg/L	8	1.0	ND	<input type="checkbox"/>	0-0
480-137635-B-3	98-188-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137635-B-4	98-188-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137635-B-6	98-187-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0.408
480-137635-C-1	98-194-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137635-C-5	98-193-2	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137636-B-2	93-181-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137636-B-4	93-178-3	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137679-B-3	173R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137679-B-4	171R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137679-B-6	170R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0
480-137679-B-8	301R	353.2_Nitrite	Nitrite as N	Total/NA	mg/L as N8		1.0	ND	<input type="checkbox"/>	0-0

TestAmerica [lab name] Buffalo

Ion Chromatography Data Review Checklist

LIMS Batch Number: 418513-6	Work List Number: 72157	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: CA	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate ICAL		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		g	
2. Elution order of analytes in ICAL confirmed to be correct		Y		g	
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y		g	
4. ICV, second source: run before samples 90-110% recovery	X	Y		g	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)	NA				If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y		g	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	NA				If no, list details:
8. PK Area:Height Difference (314.0 PD _{A/M}): Before samples <25%	NA				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?	NA				Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chruns, date, initial, & reason)		Y		g	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:	NA				<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:	NA				<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:	NA				<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%	NA				

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	NA			
b. All crossed out data is initialed and dated	NA			
c. Out of control QC is clearly identified	NA			
d. Any data that has a qualifier tick is commented on with appropriate action taken	NA			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	NA			
b. All crossed out data is initialed and dated	NA			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	NA			
b. Method and matrix are correct	NA			
c. Date and time match raw data	Y			
d. Dilutions are correct	NA			
e. Correct suffix designated (where applicable)	NA			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	NA			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	NA			
b. All reported analytes are marked Primary or Secondary	NA			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: CR Review Date: 6/8/18

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 20180608 ICAL
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\Chrom\NA\Buffalo\ChromData\IC-2\20180607-72157.b
 Upload Directory: \\Corp\TALSAPP17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 72157
 Chrom Method: IC2-300
 Units: ul

Chris & Elton

CA

Worklist ID	Lims ID	Sample Reagents	Smp Type	Cal Lvl	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072157-001	# 1 Blank		Client		sv	5.000	mL	1.000
480-0072157-002	# 2 CCV	IC_ANION_LCS_00205	CCV		sv	5.000	mL	1.000
480-0072157-003	# 3 CCV	IC_ANION_LCS_00205	CCV		sv	5.000	mL	1.000
480-0072157-004	# 4 Blank		Client		sv	5.000	mL	1.000
480-0072157-005	# 5 IC-STD1	IC_ANION_STD_00036	IC	1	sv	5.000	mL	1.000
480-0072157-006	# 6 IC-STD2	IC_ANION_STD_00036	IC	2	sv	5.000	mL	1.000
480-0072157-007	# 7 IC-STD3	IC_ANION_STD_00036	IC	3	sv	5.000	mL	1.000
480-0072157-008	# 8 IC-STD4	IC_ANION_STD_00036	IC	4	sv	5.000	mL	1.000
480-0072157-009	# 9 IC-STD5	IC_ANION_STD_00036	IC	5	sv	5.000	mL	1.000
480-0072157-010	#10 IC-STD6	IC_ANION_STD_00036	IC	6	sv	5.000	mL	1.000
480-0072157-011	#11 ICV	IC ERA_00018	ICV		sv	5.000	mL	1.000
480-0072157-012	#12 ICB		ICB		sv	5.000	mL	1.000

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
Instrument: IC-2 Lims Location: 480
Lock State: Initial Calib Locked Cpnd Order: Retention Time
Integrator: Falcon Last Modified: 08-Jun-2018 13:48:10
No. Compounds: 5

Limit Group: MB 300.0_28D ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.160	2.160	2.163	2.170	2.177	2.180	2.168	0.398	2.177
2 Chloride	3.010	3.010	3.010	3.007	3.000	2.990	3.004	0.269	3.000
3 Bromide	4.463	4.467	4.460	4.457	4.437	4.407	4.448	0.516	4.437
5 Sulfate	5.577	5.563	5.547	5.497	5.410	5.327	5.487	1.807	5.410

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_28D ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	61660	48440	48222	44141	41656	39026	1494	40267	WLinr	13.0	0.998	
	-21.1	1.7	12.3	7.8	2.7	-3.5						
2 Chloride	24530	24889	25575	26310	26445	26859	-1973	26582	WLinr	4.0	1.000	
	6.7	-3.0	-2.7	-1.0	-0.7	0.7						
3 Bromide	7300	8030	9008	10086	10309	10478	-258	10395	WLinr	12.0	0.999	
	19.8	-10.4	-8.4	-1.7	-0.3	1.0						
5 Sulfate	91154	42623	30332	22703	21244	20805	37922	20573	WLinr	15.8	0.999	
	-25.6	15.0	10.6	1.1	-0.4	-0.7						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Instrument: IC-2 Lims Location: 480
 Lock State: Initial Calib Locked Cpnd Order: Retention Time
 Integrator: Falcon Last Modified: 08-Jun-2018 13:48:10
 No.Compounds:5

Limit Group: MB SM4110B ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.160	2.160	2.163	2.170	2.177	2.180	2.168	0.398	2.177
2 Chloride	3.010	3.010	3.010	3.007	3.000	2.990	3.004	0.269	3.000
3 Bromide	4.463	4.467	4.460	4.457	4.437	4.407	4.448	0.516	4.437
5 Sulfate	5.577	5.563	5.547	5.497	5.410	5.327	5.487	1.807	5.410

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB SM4110B ICAL

Column 1:

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	61660	48440	48222	44141	41656	39026	1494	40267	WLinr	13.0	0.988	
	-21.1	1.7	12.3	7.8	2.7	-3.5						
2 Chloride	24530	24889	25575	26310	26445	26859	-1973	26682	WLinr	4.0	1.000	
	6.7	-3.0	-2.7	-1.0	-0.7	0.7						
3 Bromide	7300	8030	9008	10086	10309	10478	-258	10395	WLinr	12.0	0.999	
	19.8	-10.4	-8.4	-1.7	-0.3	1.0						
5 Sulfate	91154	42623	30332	22703	21244	20805	37922	20573	WLinr	15.8	0.999	
	-25.6	15.0	10.6	1.1	-0.4	-0.7						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Limit Group: MB 9056 ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
1 Fluoride	2.160	2.160	2.163	2.170	2.177	2.180	2.168	0.398	2.177
2 Chloride	3.010	3.010	3.010	3.007	3.000	2.990	3.004	0.269	3.000
3 Bromide	4.463	4.467	4.460	4.457	4.437	4.407	4.448	0.516	4.437
5 Sulfate	5.577	5.563	5.547	5.497	5.410	5.327	5.487	1.807	5.410

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No.Compounds:5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB 9056 ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
1 Fluoride	61660	48440	48222	44141	41656	39026	1494	40267	WLinr	13.0	0.998	
	-21.1	1.7	12.3	7.8	2.7	-3.5						
2 Chloride	24530	24889	25575	26310	26445	26859	-1973	26682	WLinr	4.0	1.000	
	6.7	-3.0	-2.7	-1.0	-0.7	0.7						
3 Bromide	7300	8030	9008	10086	10309	10478	-258	10395	WLinr	12.0	0.999	
	19.8	-10.4	-8.4	-1.7	-0.3	1.0						
5 Sulfate	91154	42623	30332	22703	21244	20805	37922	20573	WLinr	15.8	0.999	
	-25.6	15.0	10.6	1.1	-0.4	-0.7						

TestAmerica Laboratories
Initial Calibration RT Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No. Compounds: 5

Limit Group: MB 300.0_48HR ICAL

Averaged ICal Samples:

Replace Expected RT from Ical Level: 5

Detector 1: Ch-A-092410-2

Compound	RT(min.) Level 1	RT(min.) Level 2	RT(min.) Level 3	RT(min.) Level 4	RT(min.) Level 5	RT(min.) Level 6	Average RT(min.)	%RSD	Expected RT
4 Nitrate as N	4.737	4.730	4.723	4.703	4.663	4.603	4.693	1.096	4.663

TestAmerica Laboratories
Initial Calibration RF Report

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m

Instrument: IC-2

Lims Location: 480

Lock State: Initial Calib Locked

Cpnd Order: Retention Time

Integrator: Falcon

Last Modified: 08-Jun-2018 13:48:10

No. Compounds: 5

Initial Calibration Batches

Ical Batch: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b

Inj Date : 08-Jun-2018 12:15:45, Sublist: chrom-IC2-300*sub2

Limit Group: MB 300.0_48HR ICAL

Column 1 :

Det: Ch-A-092410-2

Compound	Level 1 RF/%Drift	Level 2 RF/%Drift	Level 3 RF/%Drift	Level 4 RF/%Drift	Level 5 RF/%Drift	Level 6 RF/%Drift	b	M1	Curve	Rse/ Rsd	R ² / COD	Flags
4 Nitrate as N	61020	58840	64158	65264	66626	68557	-771	67648	WLinr	7.8	1.000	
	13.0	-7.3	-2.9	-3.0	-1.3	1.5						

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d
 Lims ID: IC - STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Jun-2018 12:15:45 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 205 Name: IC - STD1
 Misc. Info.: Study: 480-0072157-005 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:52 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:28:30

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.160	2.177	-0.017	3083	0.0500	0.0395	M
2 Chloride						
3.010	3.000	0.010	12265	0.5000	0.5336	
3 Bromide						Ma
4.463	4.437	0.026	365	0.0500	0.0599	M
4 Nitrate as N						M
4.737	4.663	0.074	3051	NC	NC	M
5 Sulfate						
5.577	5.410	0.167	45577	0.5000	0.3721	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

IC_ANION_STD_00036 Amount Added: 2.50 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d

Injection Date: 08-Jun-2018 12:15:45

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD1

Worklist Smp#: 5

Client ID:

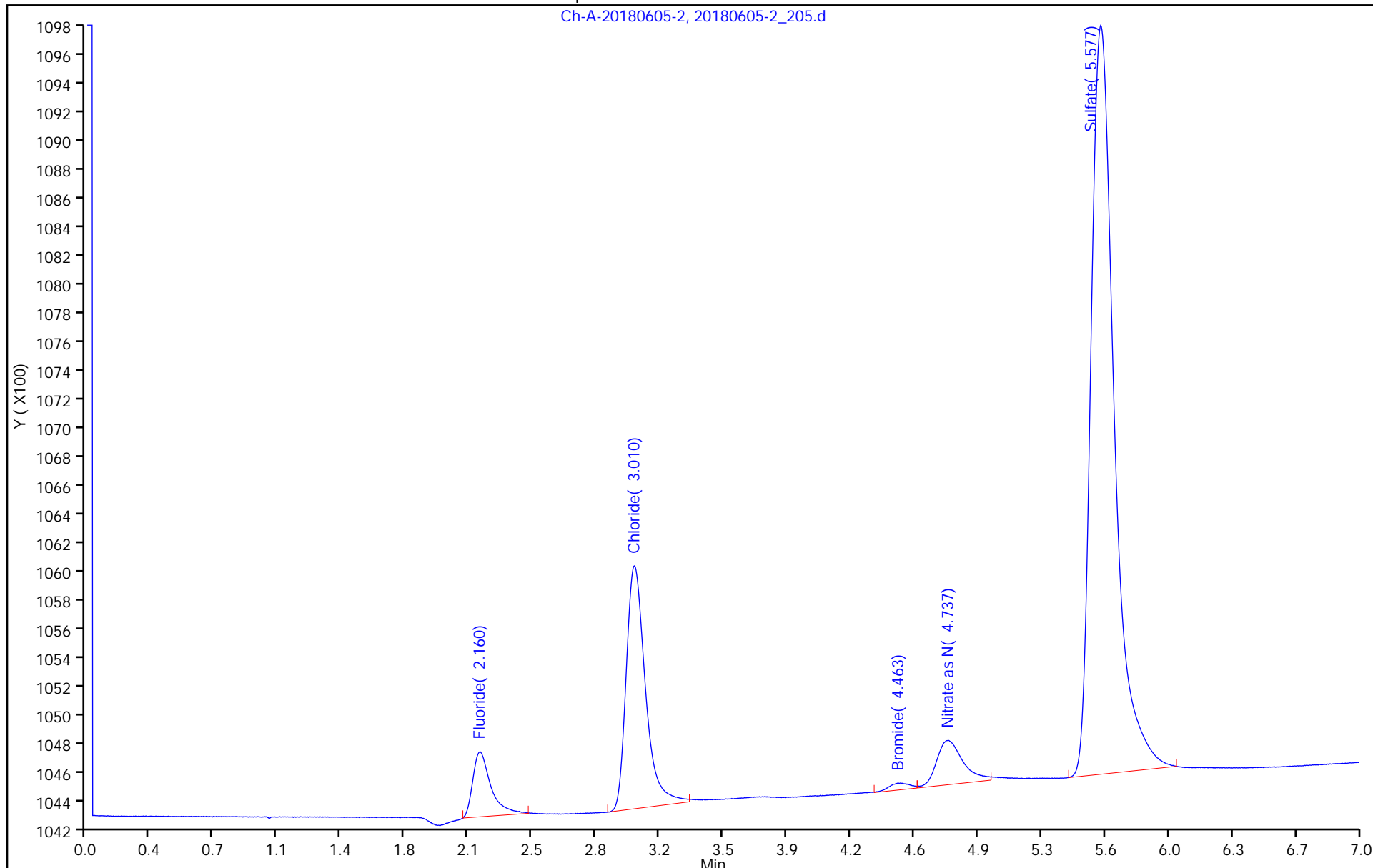
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

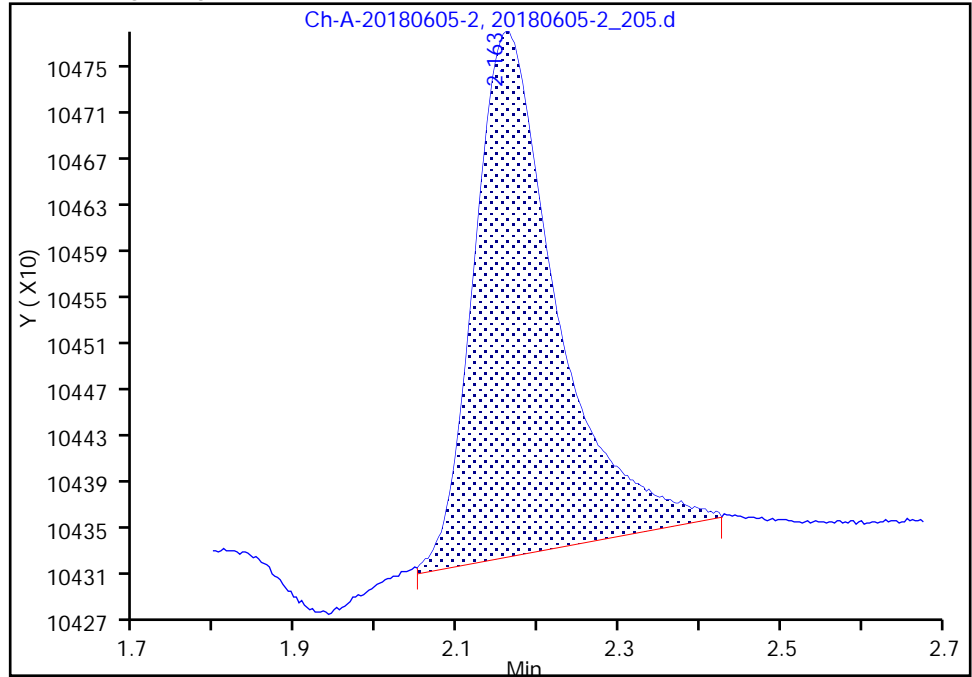
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d
Injection Date: 08-Jun-2018 12:15:45 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

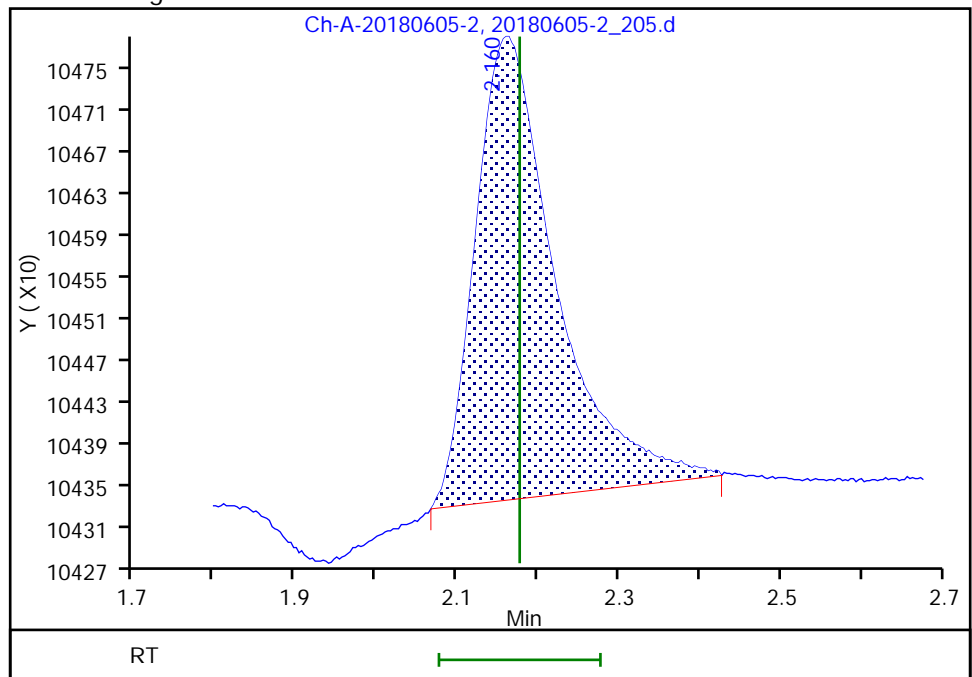
RT: 2.16
Area: 3253
Amount: 0.050984
Amount Units: ng/uL

Processing Integration Results



RT: 2.16
Area: 3083
Amount: 0.039453
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:26:16
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo

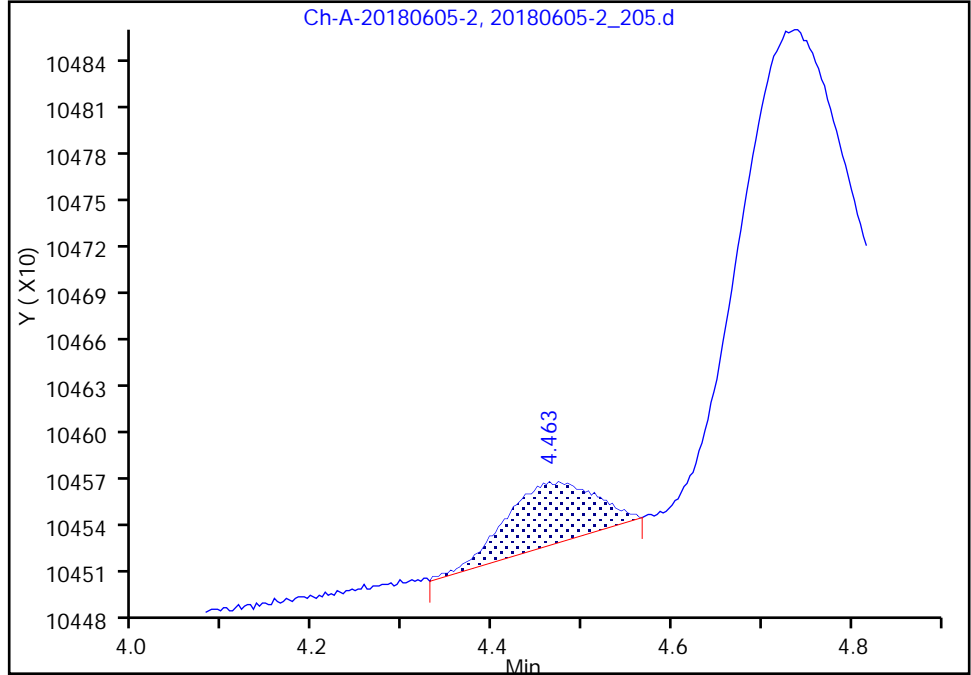
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_205.d
Injection Date: 08-Jun-2018 12:15:45 Instrument ID: IC-2
Lims ID: IC - STD1
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

3 Bromide, CAS: 24959-67-9

Signal: 1

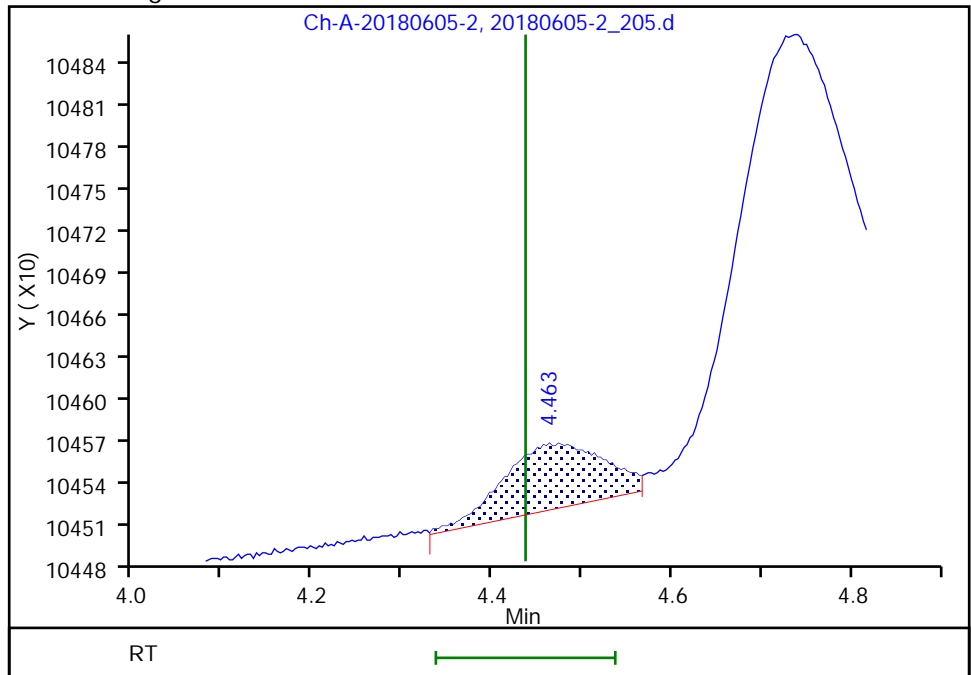
RT: 4.46
Area: 280
Amount: 0.063680
Amount Units: ng/uL

Processing Integration Results



RT: 4.46
Area: 365
Amount: 0.059893
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:27:38
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_206.d
 Lims ID: IC - STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Jun-2018 12:23:54 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 206 Name: IC - STD2
 Misc. Info.: Study: 480-0072157-006 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:53 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:29:14

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.160	2.177	-0.017	9688	0.2000	0.2035	M
2 Chloride						
3.010	3.000	0.010	49778	2.00	1.94	
3 Bromide						
4.467	4.437	0.030	1606	0.2000	0.1793	
4 Nitrate as N						
4.730	4.663	0.067	11768	NC	NC	
5 Sulfate						
5.563	5.410	0.153	85246	2.00	2.30	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 10.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_206.d

Injection Date: 08-Jun-2018 12:23:54

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD2

Worklist Smp#: 6

Client ID:

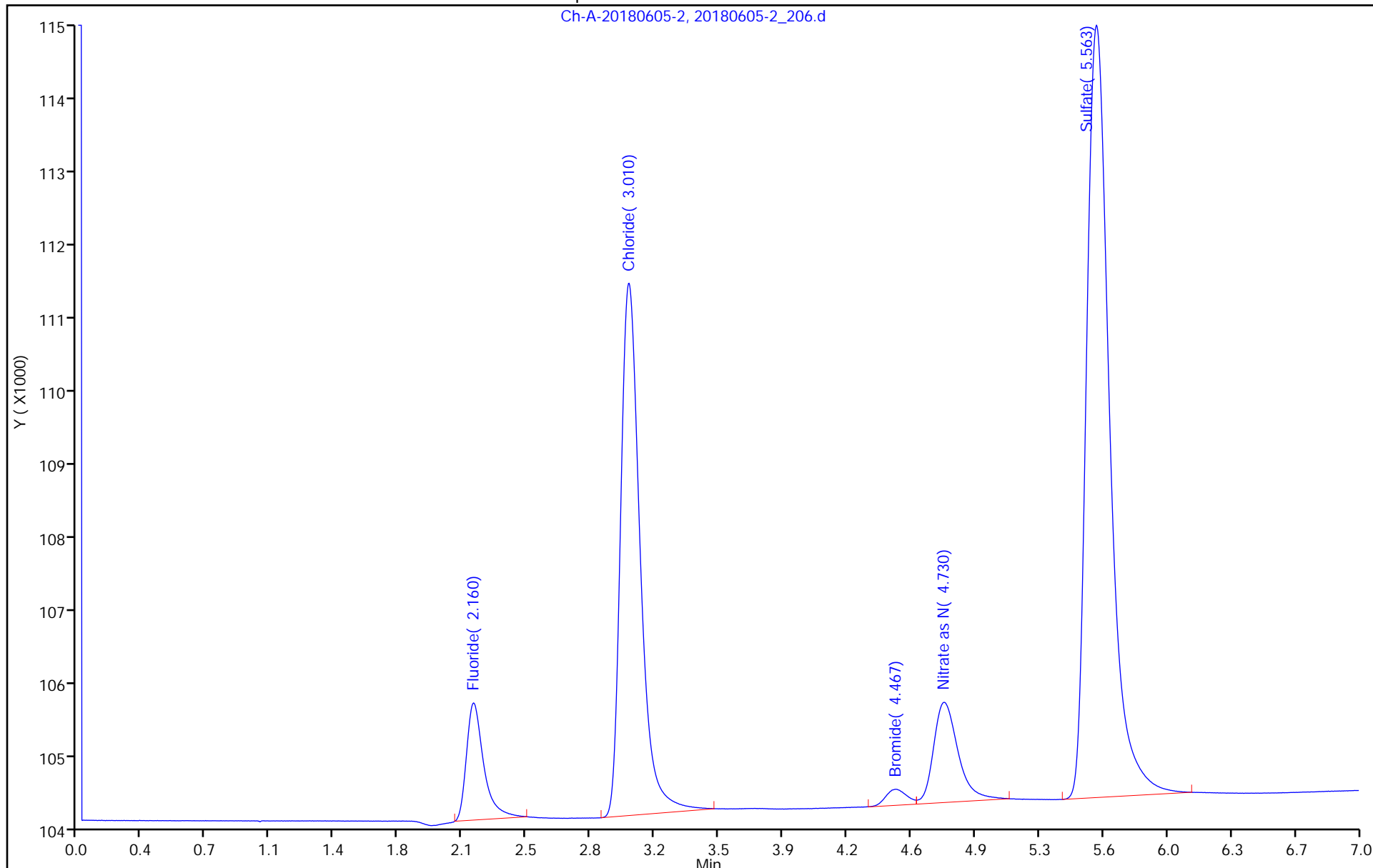
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

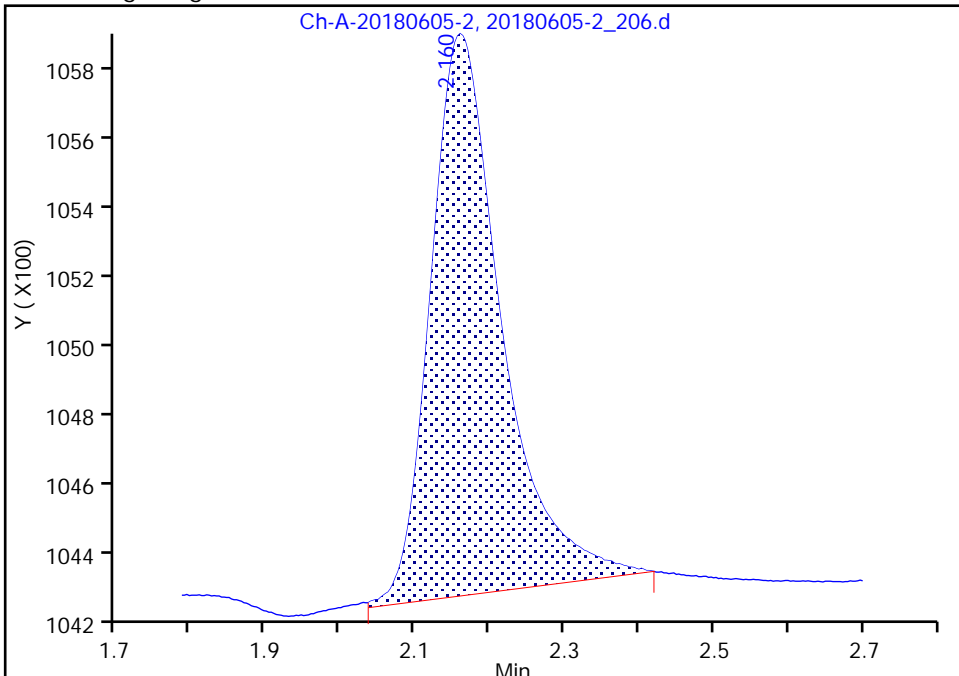
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_206.d
Injection Date: 08-Jun-2018 12:23:54 Instrument ID: IC-2
Lims ID: IC - STD2
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

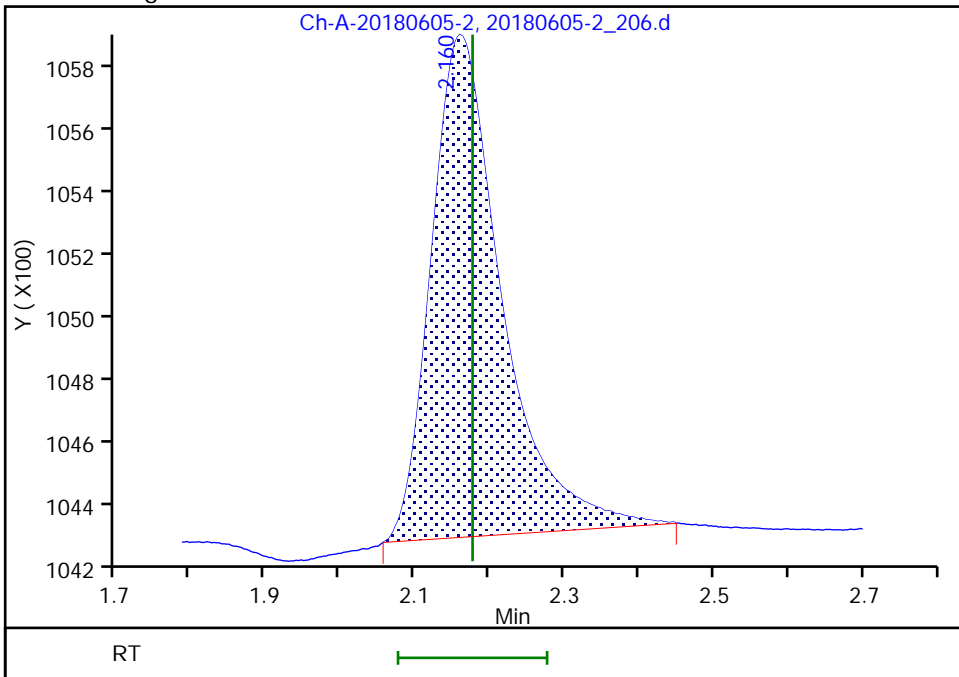
RT: 2.16
Area: 9859
Amount: 0.203727
Amount Units: ng/uL

Processing Integration Results



RT: 2.16
Area: 9688
Amount: 0.203483
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:29:02
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_207.d
 Lims ID: IC - STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Jun-2018 12:32:02 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 207 Name: IC - STD3
 Misc. Info.: Study: 480-0072157-007 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:55 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:29:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.163	2.177	-0.014	24111	0.5000	0.5617	M
2 Chloride						
3.010	3.000	0.010	127873	5.00	4.87	
3 Bromide						
4.460	4.437	0.023	4504	0.5000	0.4581	
4 Nitrate as N						
4.723	4.663	0.060	32079	NC	NC	
5 Sulfate						
5.547	5.410	0.137	151659	5.00	5.53	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 25.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_207.d

Injection Date: 08-Jun-2018 12:32:02

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD3

Worklist Smp#: 7

Client ID:

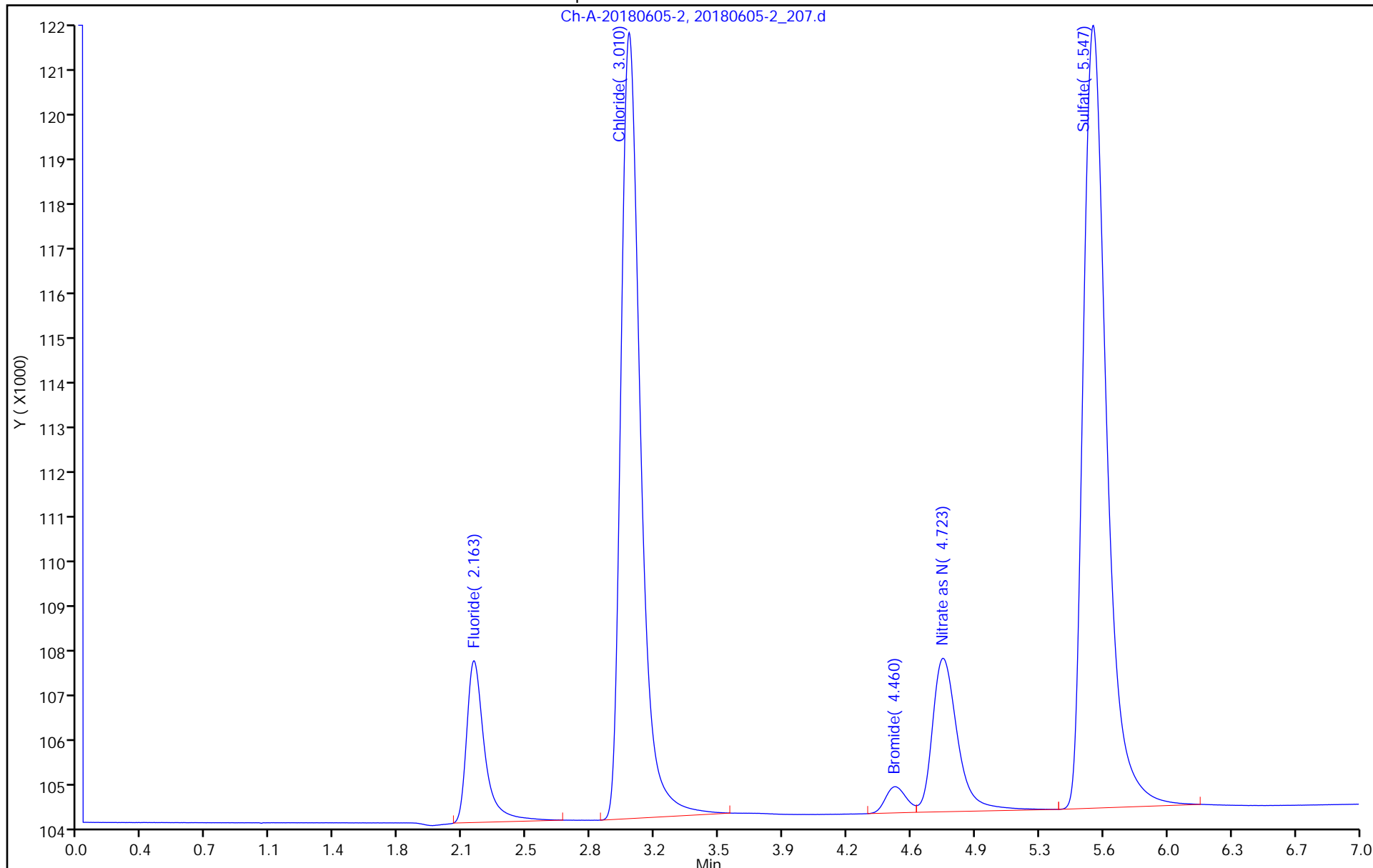
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

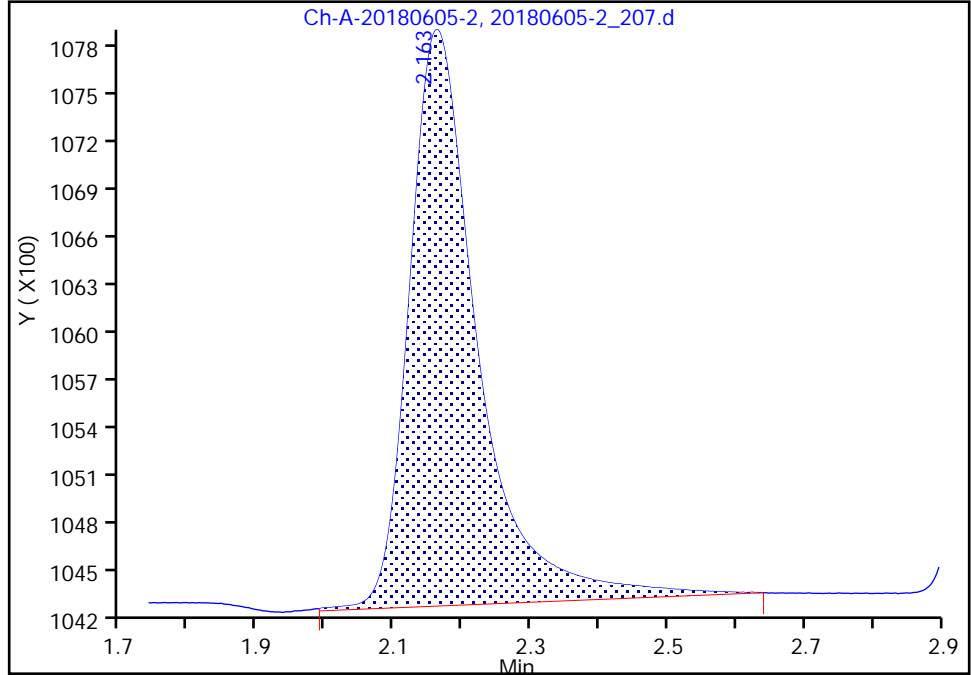
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_207.d
Injection Date: 08-Jun-2018 12:32:02 Instrument ID: IC-2
Lims ID: IC - STD3
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

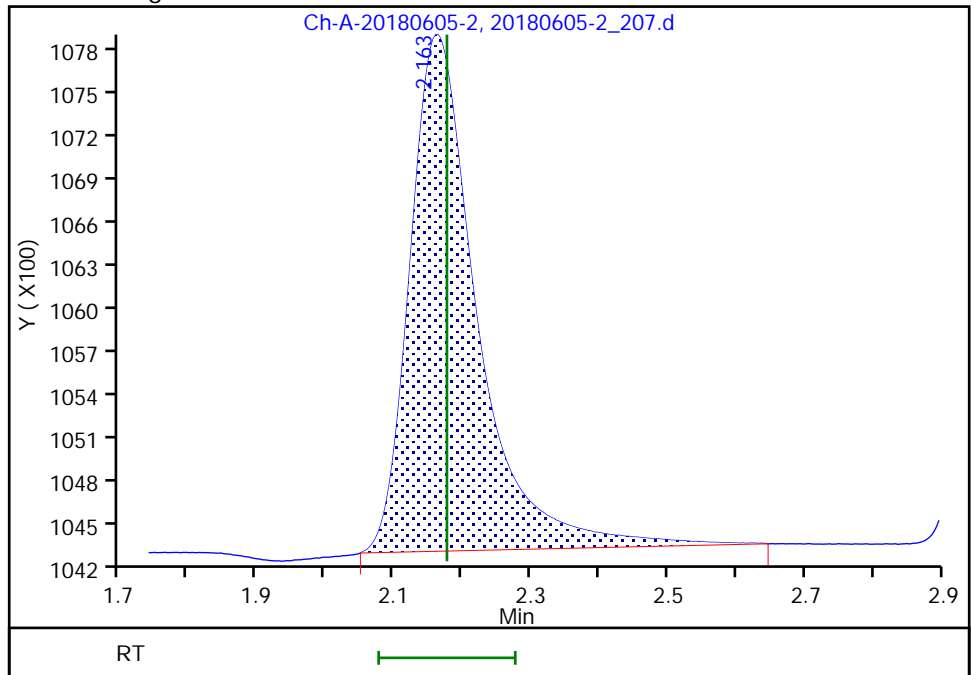
RT: 2.16
Area: 24789
Amount: 0.545636
Amount Units: ng/uL

Processing Integration Results



RT: 2.16
Area: 24111
Amount: 0.561666
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:29:35
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_208.d
 Lims ID: IC - STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Jun-2018 12:40:11 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 208 Name: IC - STD4
 Misc. Info.: Study: 480-0072157-008 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:51 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:41:51

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.170	2.177	-0.007	88282	2.00	2.16	M
2 Chloride						
3.007	3.000	0.007	526204	20.0	19.8	
3 Bromide						
4.457	4.437	0.020	20171	2.00	1.97	
4 Nitrate as N						
4.703	4.663	0.040	130528	NC	NC	
5 Sulfate						
5.497	5.410	0.087	454052	20.0	20.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 100.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_208.d

Injection Date: 08-Jun-2018 12:40:11

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD4

Worklist Smp#: 8

Client ID:

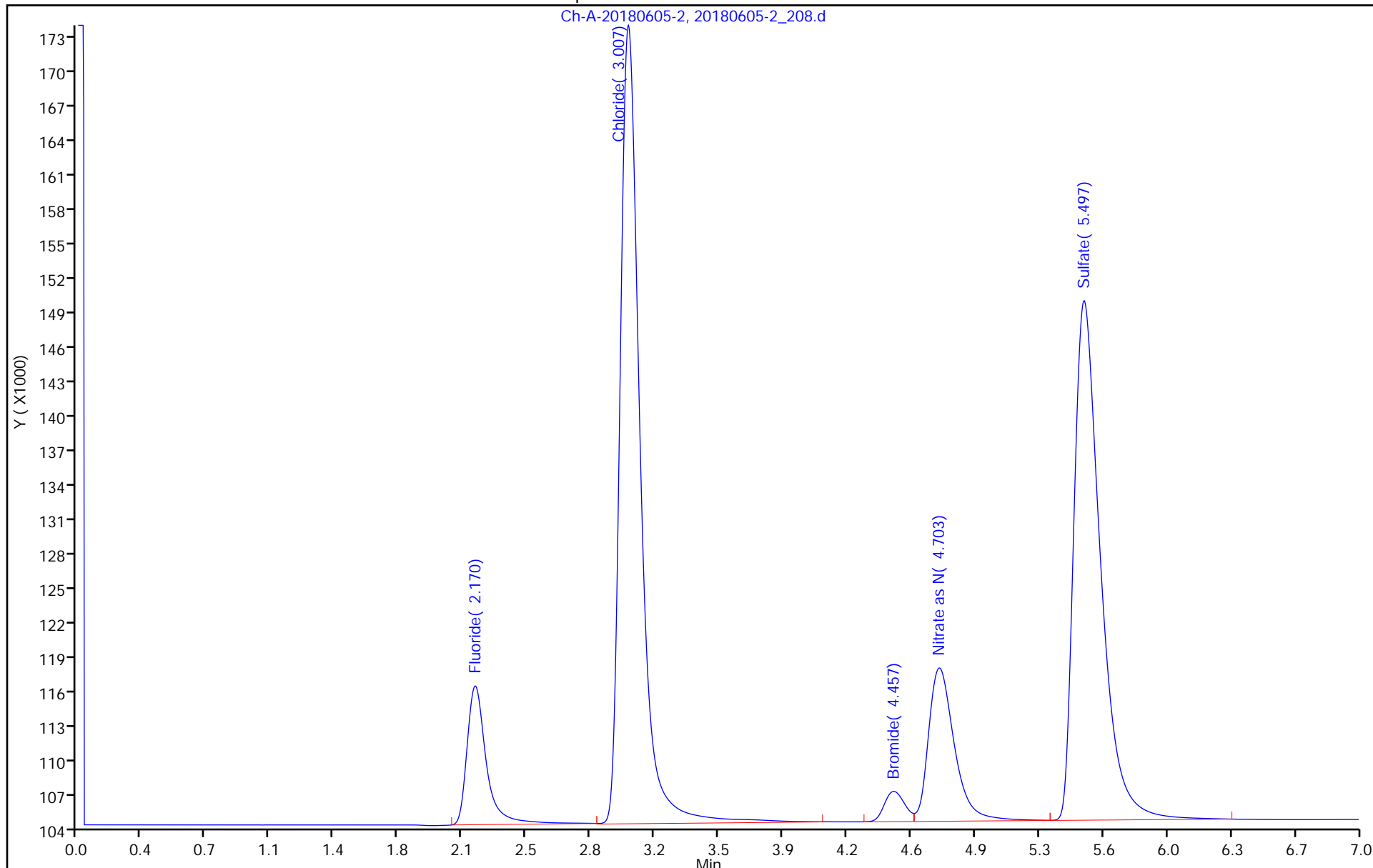
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

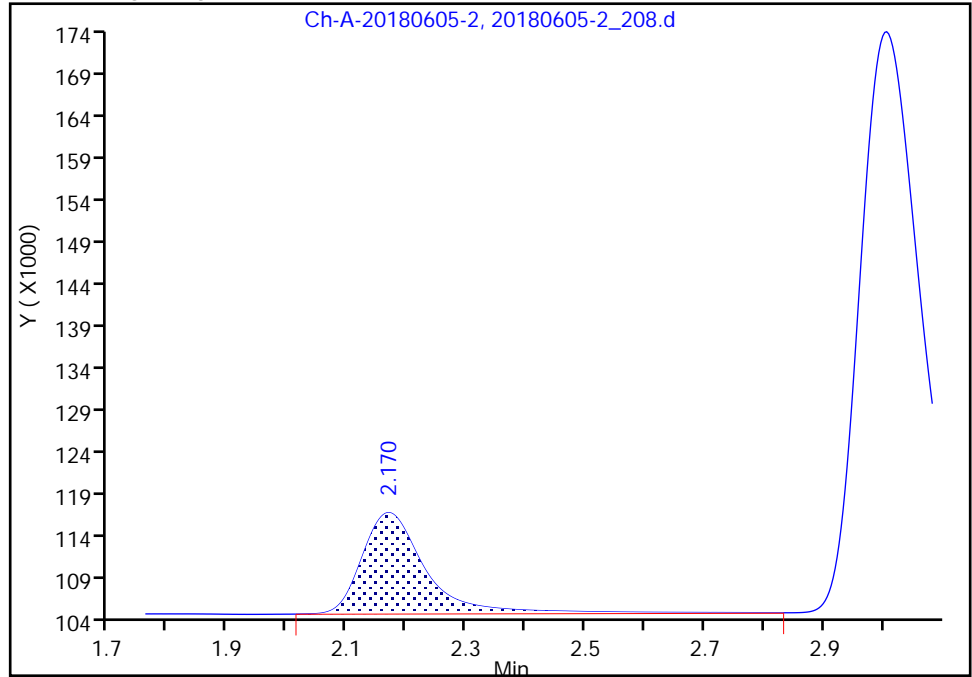
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_208.d
Injection Date: 08-Jun-2018 12:40:11 Instrument ID: IC-2
Lims ID: IC - STD4
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

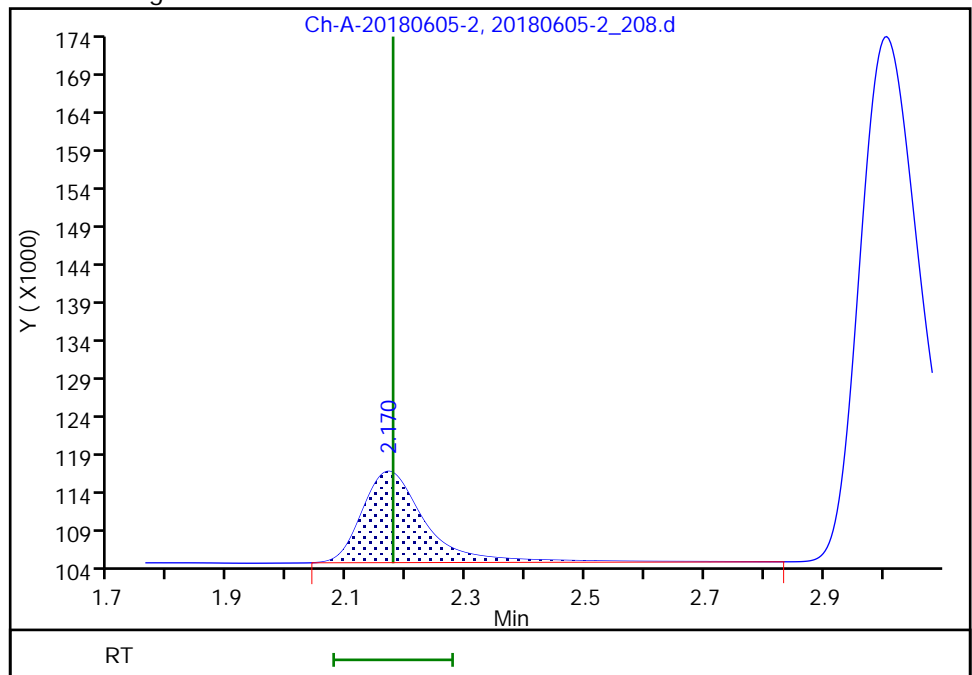
RT: 2.17
Area: 90635
Amount: 2.063616
Amount Units: ng/uL

Processing Integration Results



RT: 2.17
Area: 88282
Amount: 2.155300
Amount Units: ng/uL

Manual Integration Results



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_209.d
 Lims ID: IC - STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Jun-2018 12:48:19 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 209 Name: IC - STD5
 Misc. Info.: Study: 480-0072157-009 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:56 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:31:15

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.177	2.177	0.000	208282	5.00	5.14	M
2 Chloride						
3.000	3.000	0.000	1322227	50.0	49.6	
3 Bromide						
4.437	4.437	0.000	51545	5.00	4.98	
4 Nitrate as N						
4.663	4.663	0.000	333132	NC	NC	
5 Sulfate						
5.410	5.410	0.000	1062191	50.0	49.8	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 250.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_209.d

Injection Date: 08-Jun-2018 12:48:19

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD5

Worklist Smp#: 9

Client ID:

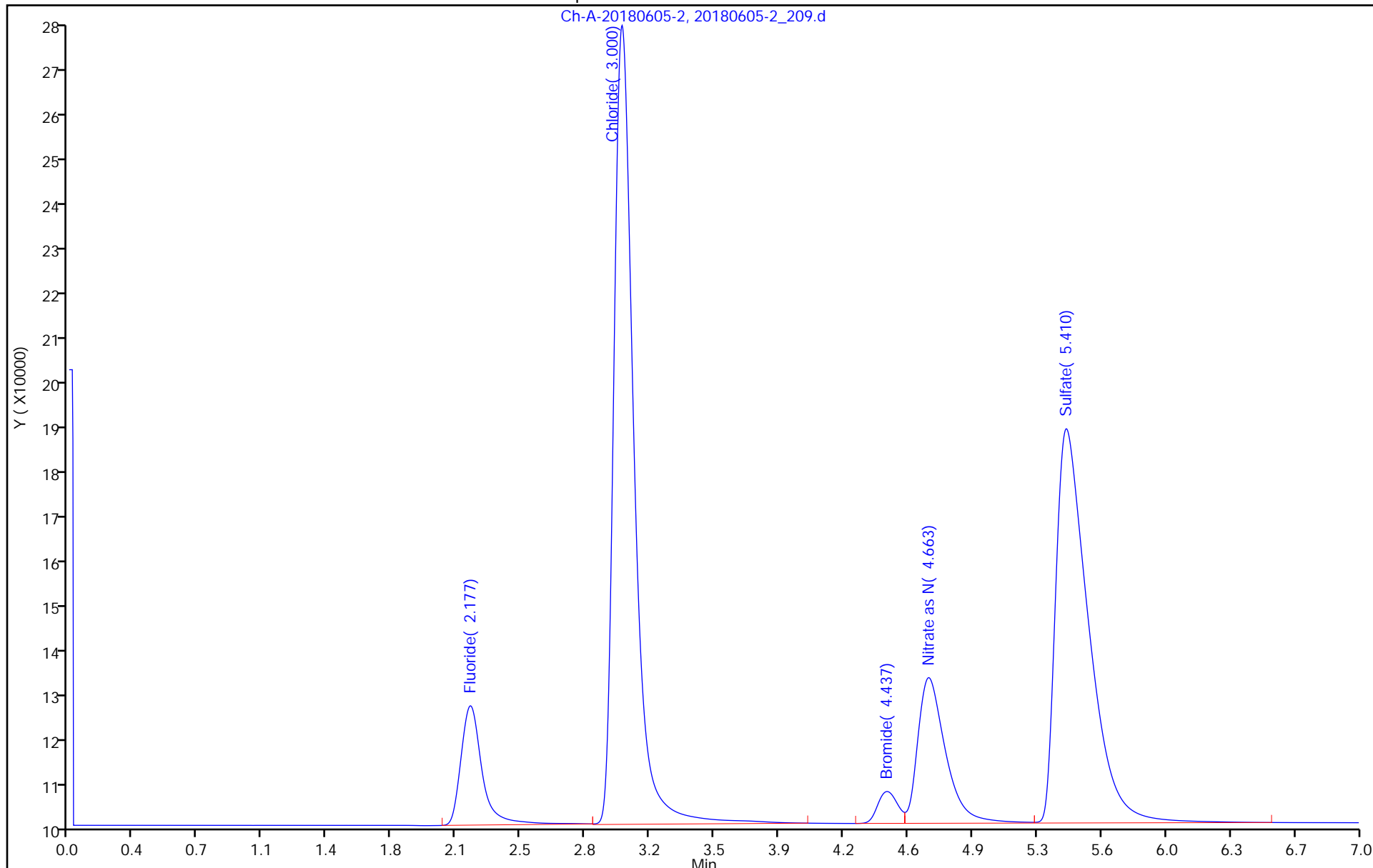
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

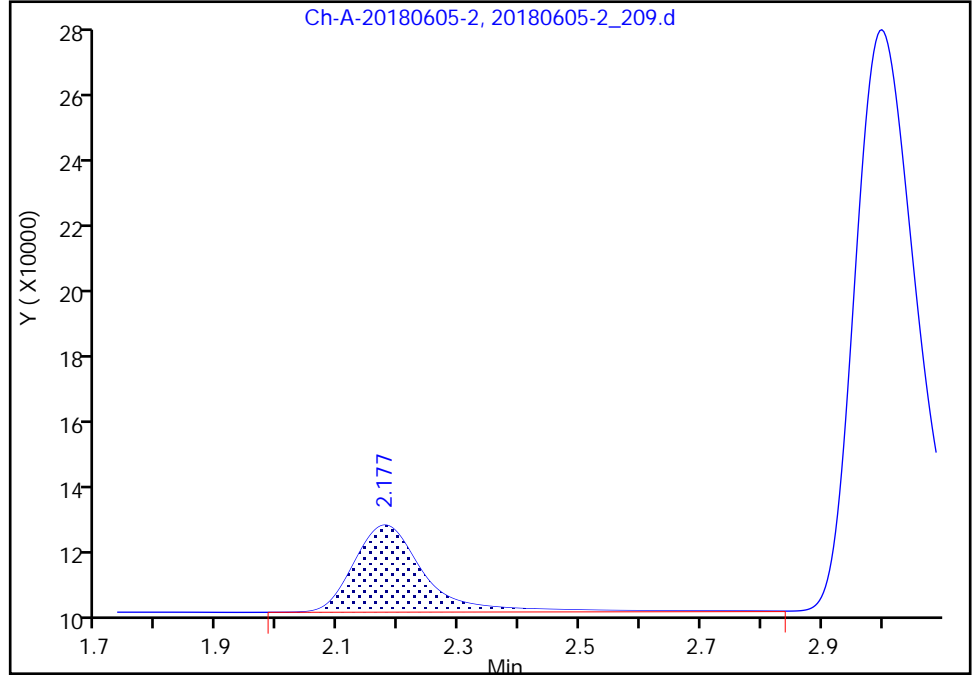
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_209.d
Injection Date: 08-Jun-2018 12:48:19 Instrument ID: IC-2
Lims ID: IC - STD5
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

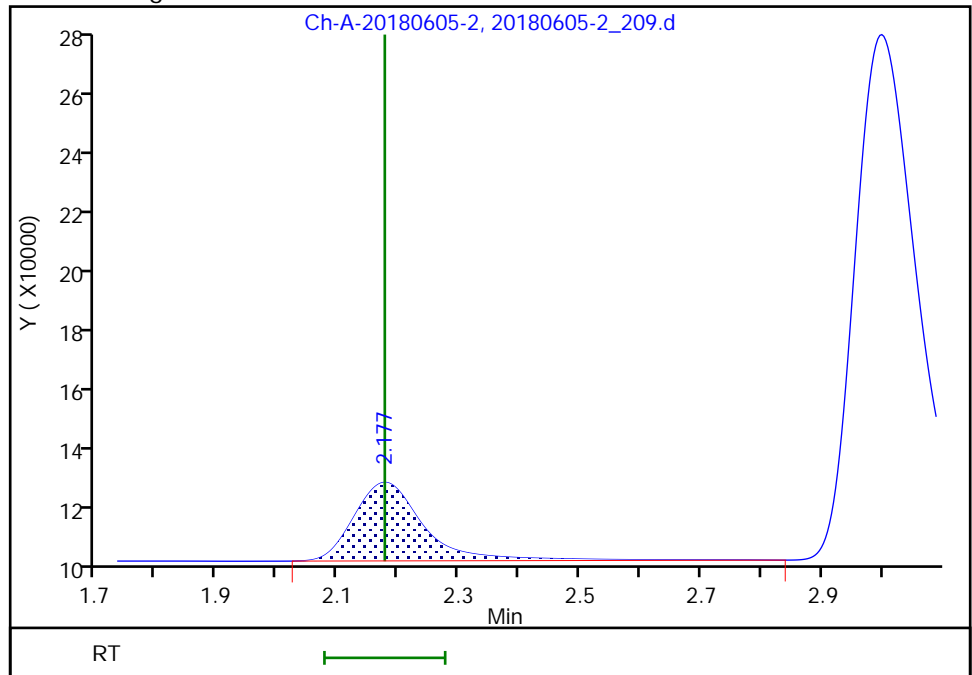
RT: 2.18
Area: 212343
Amount: 4.893537
Amount Units: ng/uL

Processing Integration Results



RT: 2.18
Area: 208282
Amount: 5.135401
Amount Units: ng/uL

Manual Integration Results



Reviewer: abramoc, 08-Jun-2018 13:30:54
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
Page 455 of 503

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Lims ID: IC - STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 08-Jun-2018 12:56:28 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 210 Name: IC - STD6
 Misc. Info.: Study: 480-0072157-010 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 08-Jun-2018 13:41:57 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK026

First Level Reviewer: abramoc Date: 08-Jun-2018 13:31:54

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.180	2.177	0.003	390261	10.0	9.65	M
2 Chloride						
2.990	3.000	-0.010	2685910	100.0	100.7	
3 Bromide						
4.407	4.437	-0.030	104780	10.0	10.1	
4 Nitrate as N						
4.603	4.663	-0.060	685568	NC	NC	
5 Sulfate						
5.327	5.410	-0.083	2080455	100.0	99.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_STD_00036 Amount Added: 500.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Injection Date: 08-Jun-2018 12:56:28

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: IC - STD6

Worklist Smp#: 10

Client ID:

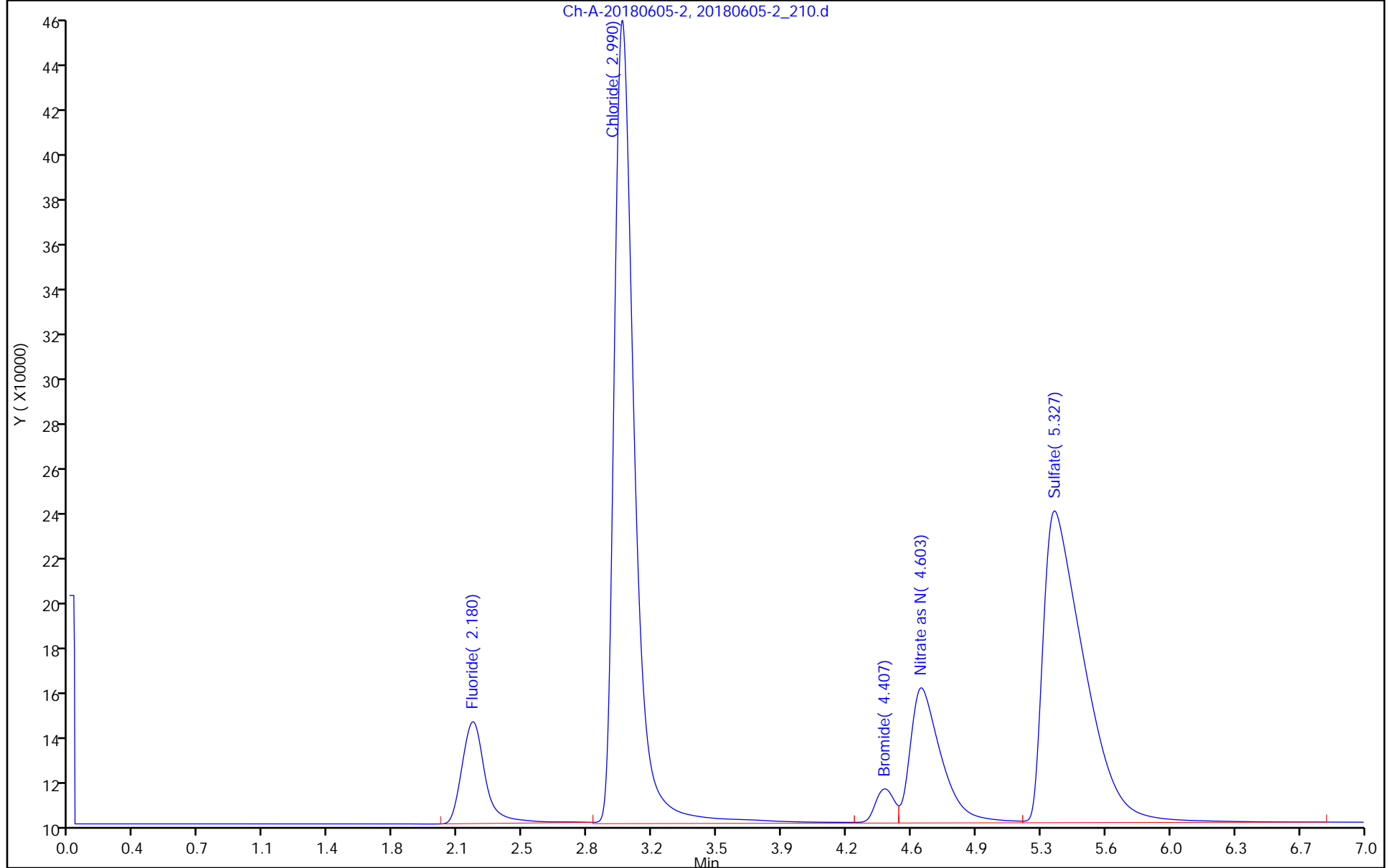
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo

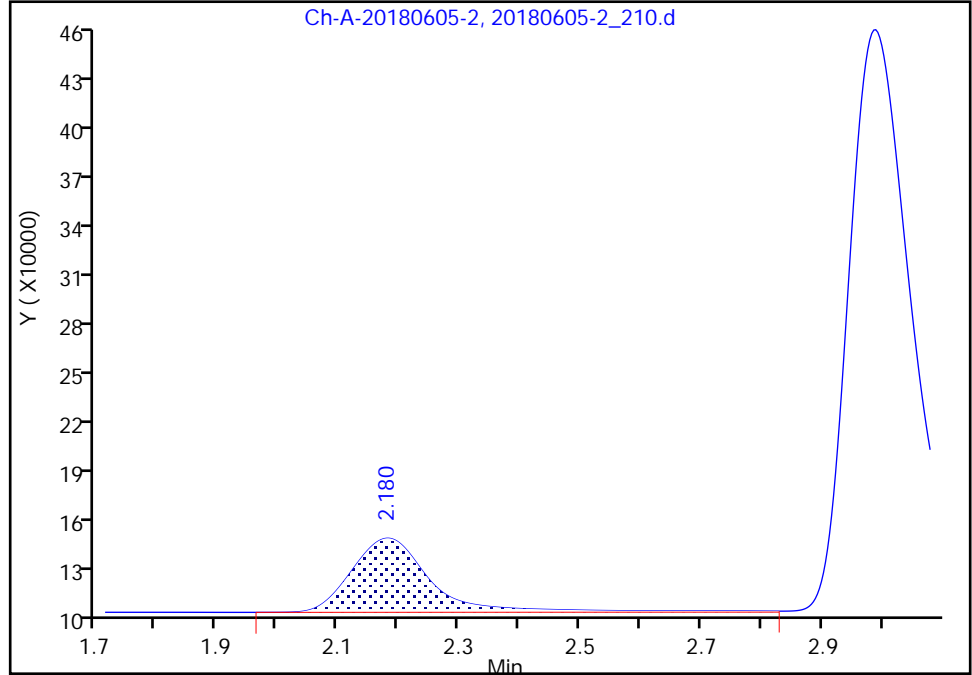
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
Injection Date: 08-Jun-2018 12:56:28 Instrument ID: IC-2
Lims ID: IC - STD6
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

1 Fluoride, CAS: 16984-48-8

Signal: 1

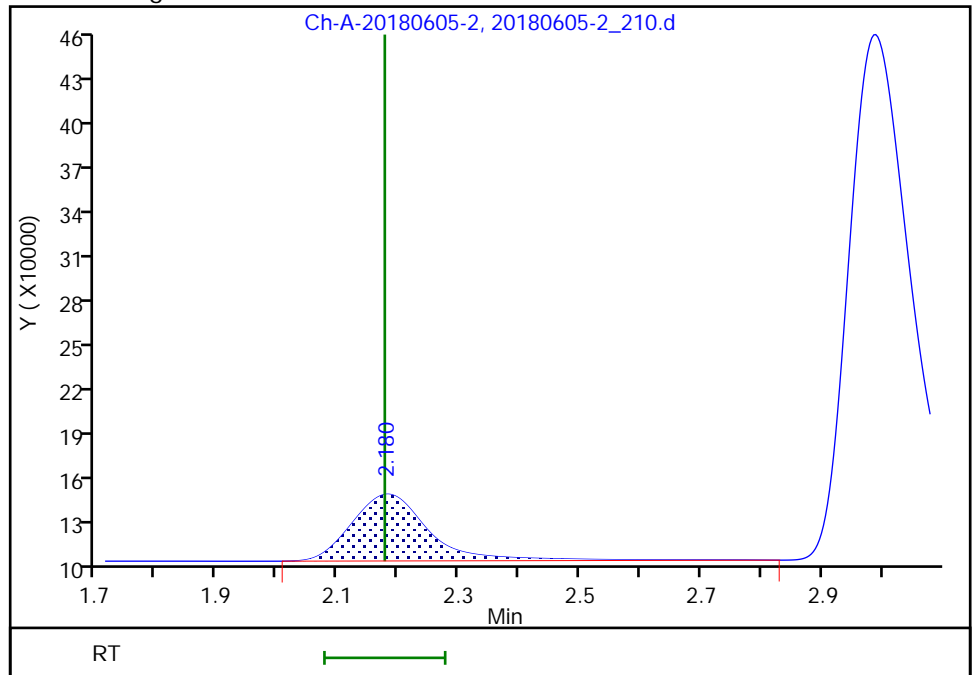
RT: 2.18
Area: 405252
Amount: 9.400333
Amount Units: ng/uL

Processing Integration Results



RT: 2.18
Area: 390261
Amount: 9.654699
Amount Units: ng/uL

Manual Integration Results



Ion Chromatography Data Review Checklist

LIMS Batch Number: 420960	Worklist: 72531	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) x-intercept < RL or < 1/2 RL (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. PK Area: Height Difference (314.0 PD _{A/H}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chroms, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result < MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte > RL in associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst Initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	N/A			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420961	Worklist: 72531	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle): Standard QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: r ≥ 0.99 (SM4110) r ≥ 0.995 r ≥ 0.999 (7199) [x-Intercept] < RL or < 1/2 RL (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples <25%	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results > linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result < RL (9056 & 7199) Result <MDL (300.0) Result < 1/2 RL (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte > RL In associated samples <input type="checkbox"/> Sample results >10x blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R > QC limits & samples < RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2 nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, Instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	N/A			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica [lab name]

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420962	Worklist:	Instrument ID (circle one): IC1 IC2 IC3 IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056 , 7199, SM4110 VFA	QC Type (circle): Standard , QAPP Other
Matrix (circle): Drinking Water Non-potable Water Solid Leachate		

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds .if curve ≥ 2 orders of magnitude (314.0)		Y			
2. Elution order of analytes in ICAL confirmed to be correct		Y			
3. Linearity and intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y			
4. ICV, second source: run before samples 90-110% recovery		Y			If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y			If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y			If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X				If no, list details:
8. Pk Area:Height Difference (314.0 PD _{A/H}): Before samples $< 25\%$	X				If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y			Comments:
10. 10 Manual integrations done & documented appropriately? (before & after chrams, date, initial, & reason)		Y			Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) If no, list blank ID & explain:		Y			<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) If no, list LCS ID & explain:		Y			<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y			<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y			

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Out of control QC is clearly identified	Y			
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y			
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y			
16. Run Log				
a. Unused data is clearly identified	Y			
b. All crossed out data is initialed and dated	Y			
c. Analyst initials/signature provided	Y			
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y			
b. Method and matrix are correct	Y			
c. Date and time match raw data	Y			
d. Dilutions are correct	Y			
e. Correct suffix designated (where applicable)	N/A			
18. TALS Worksheet Tab is complete and correct	Y			
19. TALS Reagent Tab is complete and correct	Y			
20. TALS QC Links Tab is correct	Y			
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y			
b. All reported analytes are marked Primary or Secondary	Y			
22. TALS Batch Information Screen documentation is complete	Y			
23. TALS Status set to appropriate review level	Y			
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?				
25. Results for samples and QC correct on final report?				
26. Are all necessary scanned documents in TALS?				
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				

2nd Reviewer: _____ Review Date: _____

Comments: _____

TestAmerica Laboratories
Worklist Report

Worklist Name: 6-21-18
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.B
 Upload Directory: \\CorptAL\SAPP17\480-BF-RawData\Organics\MS\IC-2

Worklist Number: 72531
 Chrom Method: IC2-300
 Units: ul

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-001	# 1 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-002	# 2 CCB		CCB	SV	5.000	mL	1.000
480-0072531-003	# 3 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-004	# 4 MB		MB	SV	5.000	mL	1.000
480-0072531-005	# 5 480-137560-E-1	20x (low) 2000x (low) 250ul to 5ml to 100ul to 5ml to 500ul to 5ml	Client 2000x 2000x	SV	5.000	mL	2000x
480-0072531-006	# 6 480-137605-E-1		Client	SV	5.000	mL	0.0
480-0072531-007	# 7 480-137605-E-3		Client	SV	5.000	mL	0.0
480-0072531-008	# 8 480-137713-D-1		Client	SV	5.000	mL	0.0
480-0072531-009	# 9 480-137509-B-2		Client	SV	5.000	mL	0.0
480-0072531-010	# 10 480-137509-B-3		Client	SV	5.000	mL	0.0
480-0072531-011	# 11 480-137509-B-3 MS		Client	SV	5.000	mL	0.0
480-0072531-012	# 12 480-137509-B-3 MSD		Client	SV	5.000	mL	0.0
480-0072531-013	# 13 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-014	# 14 CCB		CCB	SV	5.000	mL	1.000

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-015	#15 480-137509-B-4		Client	SV	5.000	mL	0.0
480-0072531-016	#16 480-137509-B-5	3.7 mS	Client	SV	5.000	mL	0.0
480-0072531-017	#17 480-137509-B-6	2.92 mS	Client	SV	5.000	mL	0.0
480-0072531-018	#18 480-137509-B-7	27.3 mS	Client	SV	5.000	mL	0.0
480-0072531-019	#19 480-137527-E-1	339 mS	Client	SV	5.000	mL	0.0
480-0072531-020	#20 480-137527-E-2	3.14 mS	Client	SV	5.000	mL	0.0
480-0072531-021	#21 480-137537-A-1	4.34 mS	Client	SV	5.000	mL	0.0
480-0072531-022	#22 480-137537-A-2	332 mS	Client	SV	5.000	mL	0.0
480-0072531-023	#23 480-137537-A-3	558 mS	Client	SV	5.000	mL	0.0
480-0072531-024	#24 480-137537-A-3 MS	526	Client	SV	5.000	mL	0.0
480-0072531-025	#25 CCV	IC_ANION_STD_00037	MS	SV	5.000	mL	0.0
480-0072531-026	#26 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-027	#27 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-028	#28 MB		MB	SV	5.000	mL	1.000
480-0072531-029	#29 480-137537-A-4		Client	SV	5.000	mL	0.0
480-0072531-030	#30 480-137537-A-5	529	Client	SV	5.000	mL	0.0
480-0072531-031	#31 480-137537-A-6	628	Client	SV	5.000	mL	0.0
480-0072531-032	#32 480-137537-A-7	612	Client	SV	5.000	mL	0.0
480-0072531-033		367	Client	SV	5.000	mL	0.0

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-033	#33 480-137537-A-8		Client	SV	5.000	mL	0.0
480-0072531-034	#34 480-137537-A-9	597 uS	Client	SV	5.000	mL	0.0
480-0072531-035	#35 480-137537-A-9 MS	530 uS	Client	SV	5.000	mL	0.0
480-0072531-036	#36 480-137537-A-9 MSD		MSD	SV	5.000	mL	0.0
480-0072531-037	#37 CCV	IC_ANION_STD_00037	CCV	SV	5.000	mL	1.000
480-0072531-038	#38 CCB	IC_ANION_LCS_00207	CCB	SV	5.000	mL	1.000
480-0072531-039	#39 480-137537-A-10		Client	SV	5.000	mL	0.0
480-0072531-040	#40 480-137465-G-1	601 uS	Client	SV	5.000	mL	0.0
480-0072531-041	#41 480-137347-B-1		Client	SV	5.000	mL	0.0
480-0072531-042	#42 480-137360-F-2		Client	SV	5.000	mL	0.0
480-0072531-043	#43 480-137360-F-3		Client	SV	5.000	mL	0.0
480-0072531-044	#44 480-137365-G-7		Client	SV	5.000	mL	0.0
480-0072531-045	#45 480-137369-F-1		Client	SV	5.000	mL	0.0
480-0072531-046	#46 480-137425-I-1		Client	SV	5.000	mL	0.0
480-0072531-047	#47 480-137425-I-2		Client	SV	5.000	mL	0.0
480-0072531-048	#48 480-137425-I-2 MS		MS	SV	5.000	mL	0.0
480-0072531-049	#49 CCV	IC_ANION_STD_00037	CCV	SV	5.000	mL	1.000
480-0072531-050	#50 CCB	IC_ANION_LCS_00207	CCB	SV	5.000	mL	1.000

06/25/2018

Ion Chromatography Data Review Checklist

LIMS Batch Number: 420962	Worklist: 9283	Instrument ID (circle one): IC1 <input checked="" type="radio"/> IC2 <input type="radio"/> IC3 <input type="radio"/> IC4
Analyst/1 st Reviewer: DR	Method (circle): 300.0, 314.0, 9056, 7199, SM4110 VFA	QC Type (circle) Standard <input checked="" type="radio"/> QAPP <input type="radio"/> Other <input type="radio"/>
Matrix (circle): Drinking Water Non-potable <input checked="" type="radio"/> Water <input type="radio"/> Solid <input type="radio"/> Leachate <input type="radio"/>		137527, 137605

Review Items	NA	Yes	No	2 nd Rev	If No, why is data reportable?
A. Calibration/Instrument Run QC					
1. Calibrated with at least 3 standards & a blank Min. 5 stds. if curve ≥ 2 orders of magnitude (314.0)		Y		/	
2. Elution order of analytes in ICAL confirmed to be correct		Y		/	
3. Linearity and Intercept: $r \geq 0.99$ (SM4110) $r \geq 0.995$ $r \geq 0.999$ (7199) $ x\text{-intercept} < RL$ or $< \frac{1}{2} RL$ (314.0 or special projects)		Y		/	
4. ICV, second source: run before samples 90-110% recovery		Y		/	If no, list details:
5. CCV: 10% frequency & closing 90-110% recovery 85-115% recovery (314.0)		Y		/	If no, list details:
6. ICB/CCB: run before samples, 10% freq. & closing Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project)		Y		/	If no, list details:
7. RL-level check standard: before samples 75-125% recovery (SM4110; 314.0 ICCS)	X			/	If no, list details:
8. Pk Area:Height Difference (314.0 PD _{WH}): Before samples $< 25\%$	X			/	If no, list details:
B. Client Sample and QC Sample Results					
9. Samples with results $>$ linear range diluted and reanalyzed?		Y		/	Comments:
10. 10 Manual integrations done & documented appropriately? (before & after choms, date, initial, & reason)		Y		/	Comments:
C. Preparation/Matrix QC					
11. Method Blank: one per preparation batch Result $< RL$ (9056 & 7199) Result $< MDL$ (300.0) Result $< \frac{1}{2} RL$ (SM4110, 314.0, DoD or special project) if no, list blank ID & explain:		Y		/	<input type="checkbox"/> No analyte $>$ RL in associated samples <input type="checkbox"/> Sample results $> 10x$ blank <input type="checkbox"/> Insufficient sample for reanalysis
12. LCS: one per preparation batch 90-110% recovery (routine) 85-115% recovery (SM4110) if no, list LCS ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample for reanalysis <input type="checkbox"/> LCS %R $>$ QC limits & samples $<$ RL

TestAmerica [lab name]

Review Items	NA	Yes	No	2nd Rev	If No, why is data reportable?
13. MS/MSD or MS/Dup freq.: a pair per batch (routine) a pair per 10 samples (300.0) If no, list QC ID & explain:		Y		/	<input type="checkbox"/> Insufficient sample
14. MS/MSD acceptance criteria (SM4110): - Recovery = 70-130% - RPD <20%		Y		/	

Review Items	Yes	No	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry				
15. Raw Data				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Out of control QC is clearly identified	Y		/	
d. Any data that has a qualifier tick is commented on with appropriate action taken	Y		/	
e. The first page of the run includes the filename, instrument, and analyst initials/signature	Y		/	
16. Run Log				
a. Unused data is clearly identified	Y		/	
b. All crossed out data is initialed and dated	Y		/	
c. Analyst initials/signature provided	Y		/	
17. TALS Samples Tab				
a. LIMS Sample IDs / Containers are correct	Y		/	
b. Method and matrix are correct	Y		/	
c. Date and time match raw data	Y		/	
d. Dilutions are correct	Y		/	
e. Correct suffix designated (where applicable)	NA		NO	
18. TALS Worksheet Tab is complete and correct	Y		/	
19. TALS Reagent Tab is complete and correct	Y		/	
20. TALS QC Links Tab is correct	Y		/	
21. TALS Sample Results Tab				
a. All unused data are marked Rejected or Accepted	Y		/	
b. All reported analytes are marked Primary or Secondary	Y		/	
22. TALS Batch Information Screen documentation is complete	Y		/	
23. TALS Status set to appropriate review level	Y		/	
E. Final Report and NCMs (2nd level review only)				
24. Were all job/project requirements met?			/	
25. Results for samples and QC correct on final report?			/	
26. Are all necessary scanned documents in TALS?			/	
27. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?			/	

2nd Reviewer: Wilaiwan Review Date: 6/25/18

Comments: _____

Wilaiwan
06/25/2018

TestAmerica Laboratories
Worklist Report

Worklist Name: 6-21-18
 Instrument Name: IC-2
 Injection Volume: 1.000
 Analysis Type: Semi VOA
 Batch Directory: W:\Chrom\NAL\Bafalok\ChromData\IC-2\20180621-72531.b
 Upload Directory: W:\CPITAL\SAPP\17480-BF-RawData\Organics\MS\IC-2

Worklist Number: 72531
 Chrom Method: IC2-300
 Units: ul

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-001	# 1 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-002	# 2 CCB		CCB	SV	5.009	mL	1.000
480-0072531-003	# 3 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-004	# 4 MB		MB	SV	5.000	mL	1.000
480-0072531-005	# 5 480-137560-E-1	20x (low) 2000x (low) 2000x 250 ul → 5 mL → 1000 ul → 5 mL → 500 ul → 5 mL	Client 10x	SV	5.000	mL	20000
480-0072531-006	# 6 480-137605-E-1		Client 10x	SV	5.000	mL	0.0
480-0072531-007	# 7 480-137605-E-3		Client 10x	SV	5.000	mL	0.0
480-0072531-008	# 8 480-137713-D-1		Client 10x	SV	5.000	mL	0.0
480-0072531-009	# 9 480-137509-B-2		Client 1x	SV	5.000	mL	0.0
480-0072531-010	# 10 480-137509-B-3		Client 10x	SV	5.000	mL	0.0
480-0072531-011	# 11 480-137509-B-3 MS	1638 mS	Client SX	SV	5.000	mL	0.0
480-0072531-012	# 12 480-137509-B-3 MSD		Client MSD	SV	5.000	mL	0.0
480-0072531-013	# 13 CCB	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-014	# 14 CCB		CCB	SV	5.000	mL	1.000

Wainman

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-015	#15 480-137509-B-4		Client	SV	5.000	mL	0.0
480-0072531-016	#16 480-137509-B-5	3.7 mS	Client	SV	5.000	mL	0.0
480-0072531-017	#17 480-137509-B-6	2.92 mS	Client	SV	5.000	mL	0.0
480-0072531-018	#18 480-137509-B-7	27.3 mS	Client	SV	5.000	mL	0.0
480-0072531-019	#19 480-137527-E-1	334 mS	Client	SV	5.000	mL	0.0
480-0072531-020	#20 480-137527-E-2	3.14 mS	Client	SV	5.000	mL	0.0
480-0072531-021	#21 480-137537-A-1	4.34 mS	Client	SV	5.000	mL	0.0
480-0072531-022	#22 480-137537-A-2	332 mS	Client	SV	5.000	mL	0.0
480-0072531-023	#23 480-137537-A-3	558 mS	Client	SV	5.000	mL	0.0
480-0072531-024	#24 480-137537-A-3 MS	526	Client	SV	5.000	mL	0.0
480-0072531-025	#25 CCV	IC_ANION_STD_00037	MS	SV	5.000	mL	0.0
480-0072531-026	#26 CCB	IC_ANION_LCS_00207	CCB	SV	5.000	mL	1.000
480-0072531-027	#27 LCS	IC_ANION_LCS_00207	LCS	SV	5.000	mL	1.000
480-0072531-028	#28 MB		MB	SV	5.000	mL	1.000
480-0072531-029	#29 480-137537-A-4		Client	SV	5.000	mL	0.0
480-0072531-030	#30 480-137537-A-5	524	Client	SV	5.000	mL	0.0
480-0072531-031	#31 480-137537-A-6	628	Client	SV	5.000	mL	0.0
480-0072531-032	#32 480-137537-A-7	612	Client	SV	5.000	mL	0.0
		367	Client	SV	5.000	mL	0.0

Wilkinson
06/25/2018

Worklist ID	Lims ID	Sample Reagents	Smp Type	Fract	Initial Vol/Wt	Vol/Wt Units	Dil Fact
480-0072531-033	#33 480-137537-A-8		Client	SV	5.000	mL	0.0
480-0072531-034	#34 480-137537-A-9	597 <i>MS</i>	Client	SV	2.5 mL	5 mL	0.0
480-0072531-035	#35 480-137537-A-9 MS	530 <i>MS</i>	Client	SV	5.000	mL	0.0
480-0072531-036	#36 480-137537-A-9 MSD	IC_ANION_STD_00037	MSD	SV	5.000	mL	0.0
480-0072531-037	#37 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-038	#38 CCB		CCB	SV	5.000	mL	1.000
480-0072531-039	#39 480-137537-A-10		Client	SV	5.000	mL	0.0
480-0072531-040	#40 480-137465-G-1	601 <i>MS</i>	Client	SV	2.5 mL	5 mL	0.0
480-0072531-041	#41 480-137347-B-1		Client	SV	1 mL	5 mL	5.000
480-0072531-042	#42 480-137360-F-2		Client	SV	2.5 mL	5 mL	2.000
480-0072531-043	#43 480-137360-F-3		Client	SV	5.000	mL	1.000
480-0072531-044	#44 480-137365-G-7		Client	SV	1 mL	5 mL	5.000
480-0072531-045	#45 480-137369-F-1		Client	SV	5.000	mL	5.000
480-0072531-046	#46 480-137425-I-1		Client	SV	5.000	mL	1.000
480-0072531-047	#47 480-137425-I-2		Client	SV	5.000	mL	50.000
480-0072531-048	#48 480-137425-I-2 MS	IC_ANION_STD_00037	MS	SV	5.000	mL	50.000
480-0072531-049	#49 CCV	IC_ANION_LCS_00207	CCV	SV	5.000	mL	1.000
480-0072531-050	#50 CCB		CCB	SV	5.000	mL	1.000

Wilkinson
 06/25/2018

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_170.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 20:30:42 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 170 Name: CCV
 Misc. Info.: Study: 480-0072531-001 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:32:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.140	2.140	0.000	206911	5.00	5.10	M
2 Chloride						
2.907	2.907	0.000	1346550	50.0	50.5	
3 Bromide						
4.263	4.263	0.000	37482	5.00	3.63	
4 Nitrate as N						
4.483	4.483	0.000	326847	NC	NC	
5 Sulfate						
5.137	5.137	0.000	1092133	50.0	51.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

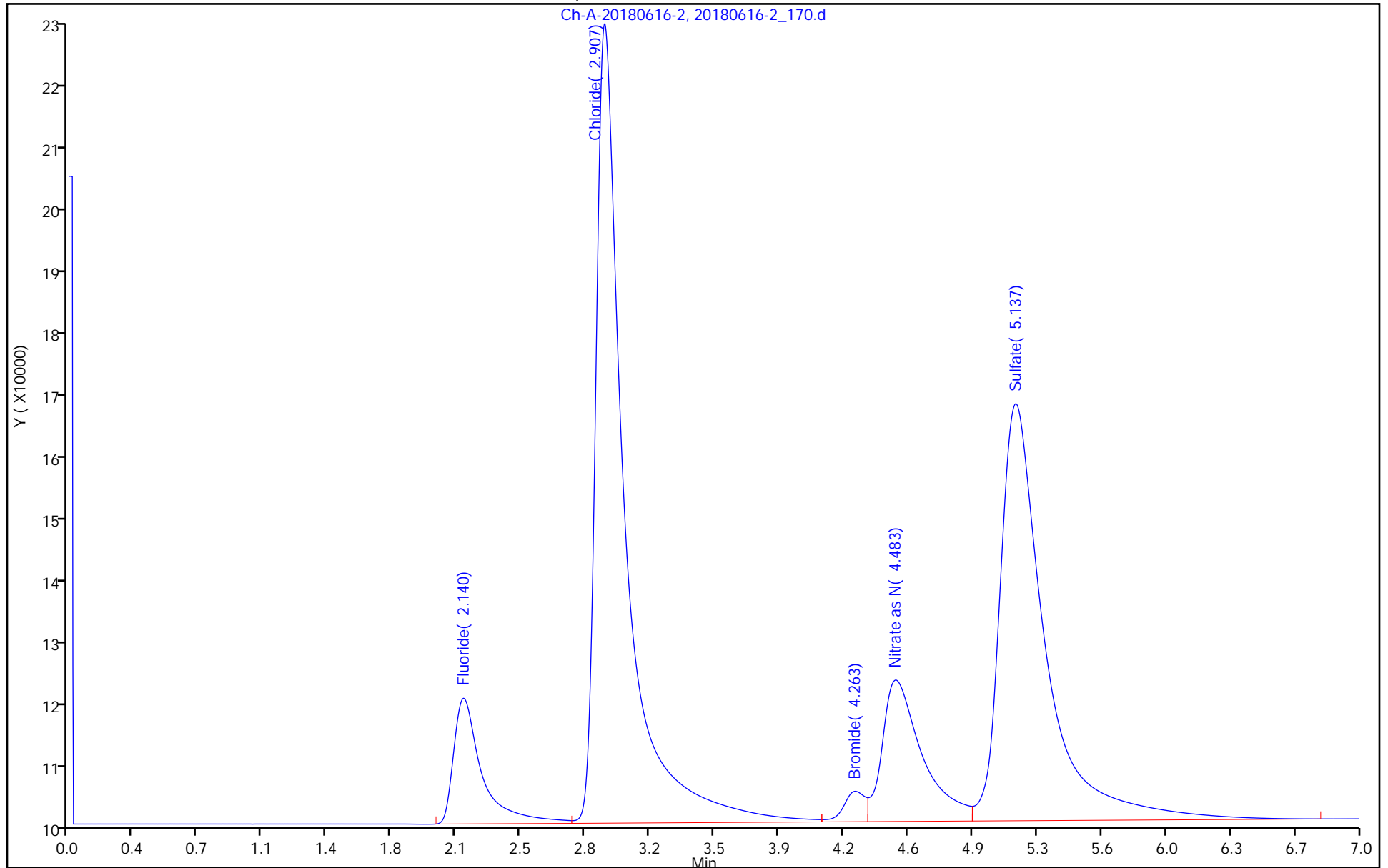
Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_170.d
Injection Date: 21-Jun-2018 20:30:42 Instrument ID: IC-2
Lims ID: CCV
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: TChrom
Worklist Smp#: 1
ALS Bottle#: 0



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_171.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 20:38:51 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 171 Name: CCB
 Misc. Info.: Study: 480-0072531-002 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:33:09

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate						M
5.323	5.143	0.180	7443		-1.48	M

QC Flag Legend

Review Flags

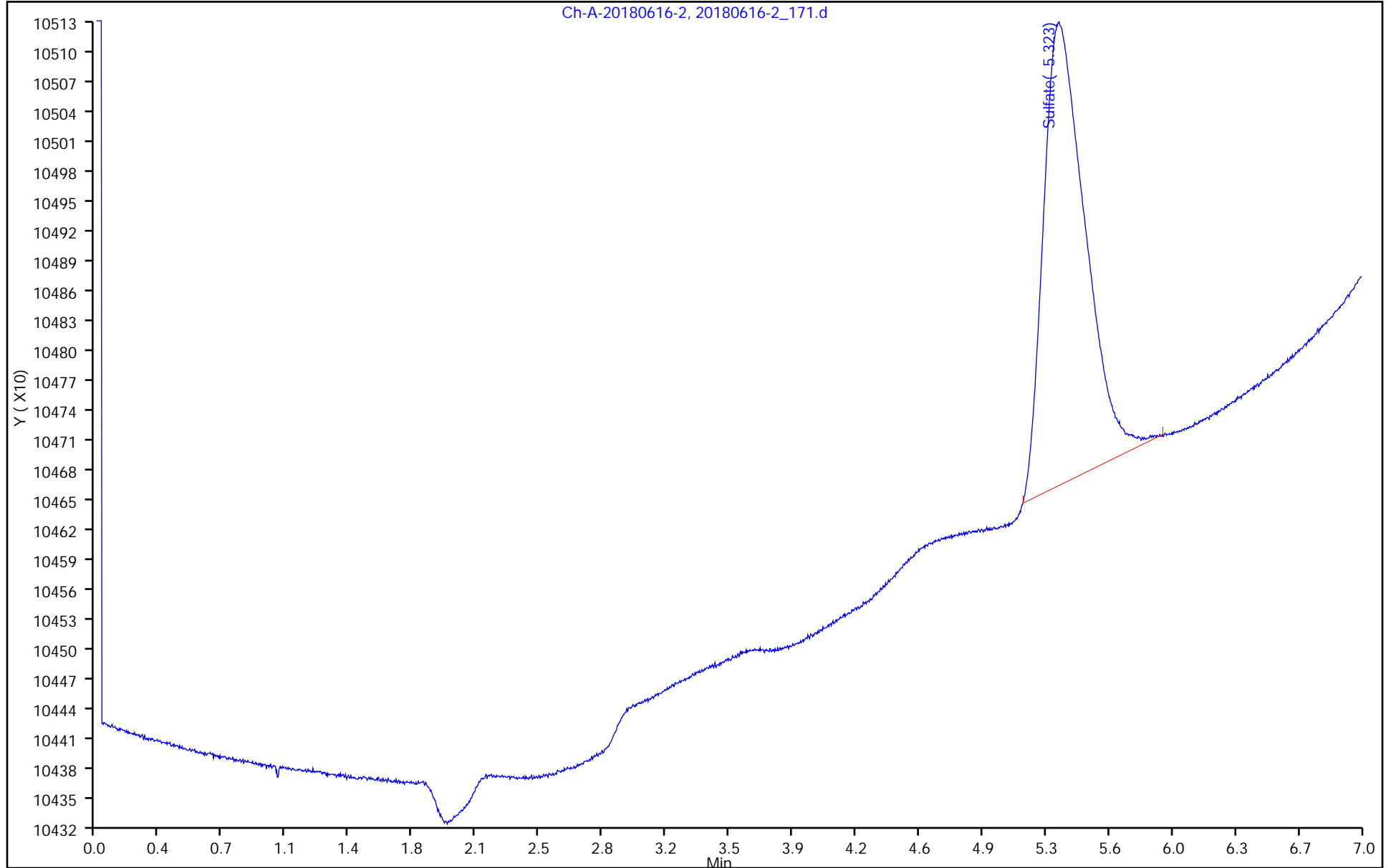
M - Manually Integrated

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_171.d
Injection Date: 21-Jun-2018 20:38:51 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: TChrom
Worklist Smp#: 2
ALS Bottle#: 0

Ch-A-20180616-2, 20180616-2_171.d



TestAmerica Buffalo

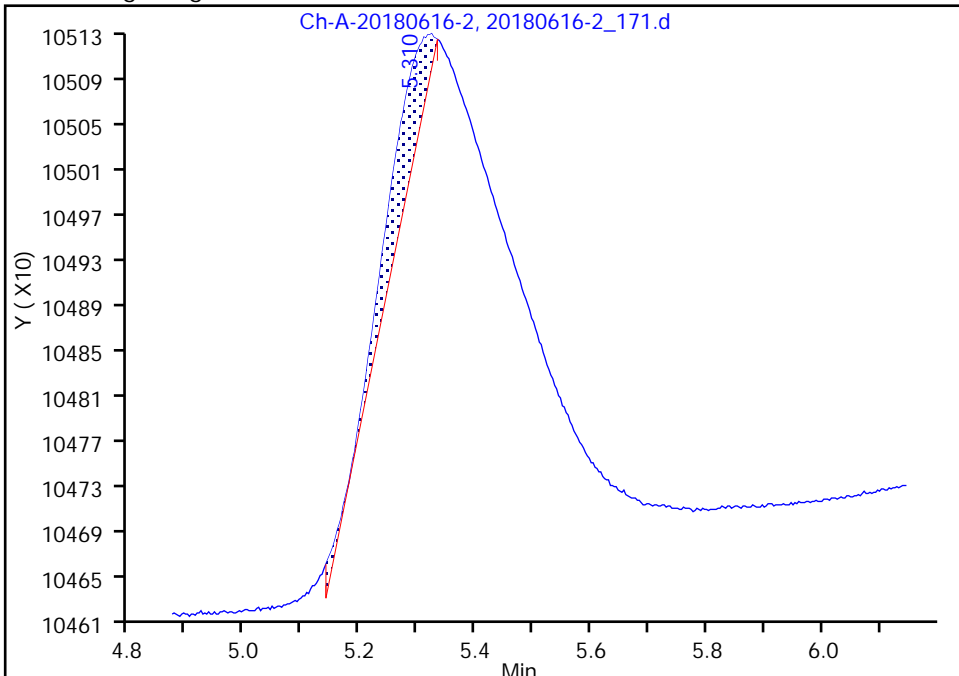
Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_171.d
Injection Date: 21-Jun-2018 20:38:51 Instrument ID: IC-2
Lims ID: CCB
Client ID:
Operator ID: TChrom ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IC2-300 Limit Group: MB 9056 ICAL
Column: Detector Ch-A-092410-2

5 Sulfate, CAS: 14808-79-8

Signal: 1

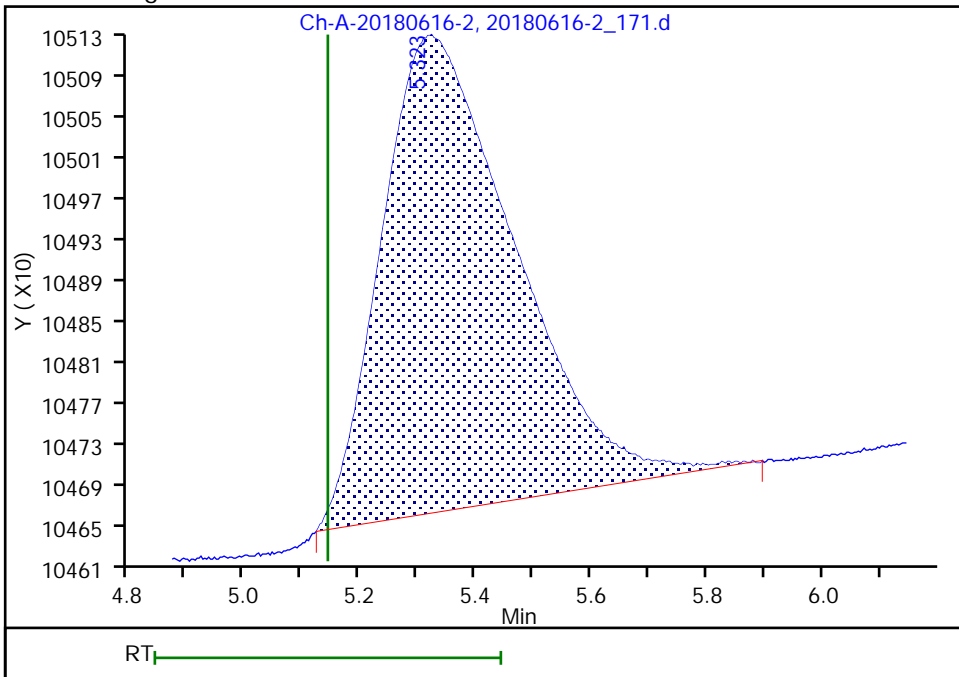
RT: 5.31
Area: 481
Amount: -1.819952
Amount Units: ng/uL

Processing Integration Results



RT: 5.32
Area: 7443
Amount: -1.481541
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 21-Jun-2018 21:33:07
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing
Page 477 of 503

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_172.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Jun-2018 20:46:59 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 172 Name: LCS
 Misc. Info.: Study: 480-0072531-003 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 25-Jun-2018 16:22:12 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK011

First Level Reviewer: thongjanw Date: 25-Jun-2018 16:22:12

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.140	2.150	-0.010	212088	5.00	5.23	M
2 Chloride						
2.907	2.917	-0.010	1348794	50.0	50.6	
3 Bromide						
4.267	4.273	-0.006	35278	5.00	3.42	
4 Nitrate as N						
4.487	4.493	-0.006	324336	NC	NC	
5 Sulfate						
5.143	5.143	0.000	1094070	50.0	51.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_172.d

Injection Date: 21-Jun-2018 20:46:59

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: LCS

Worklist Smp#: 3

Client ID:

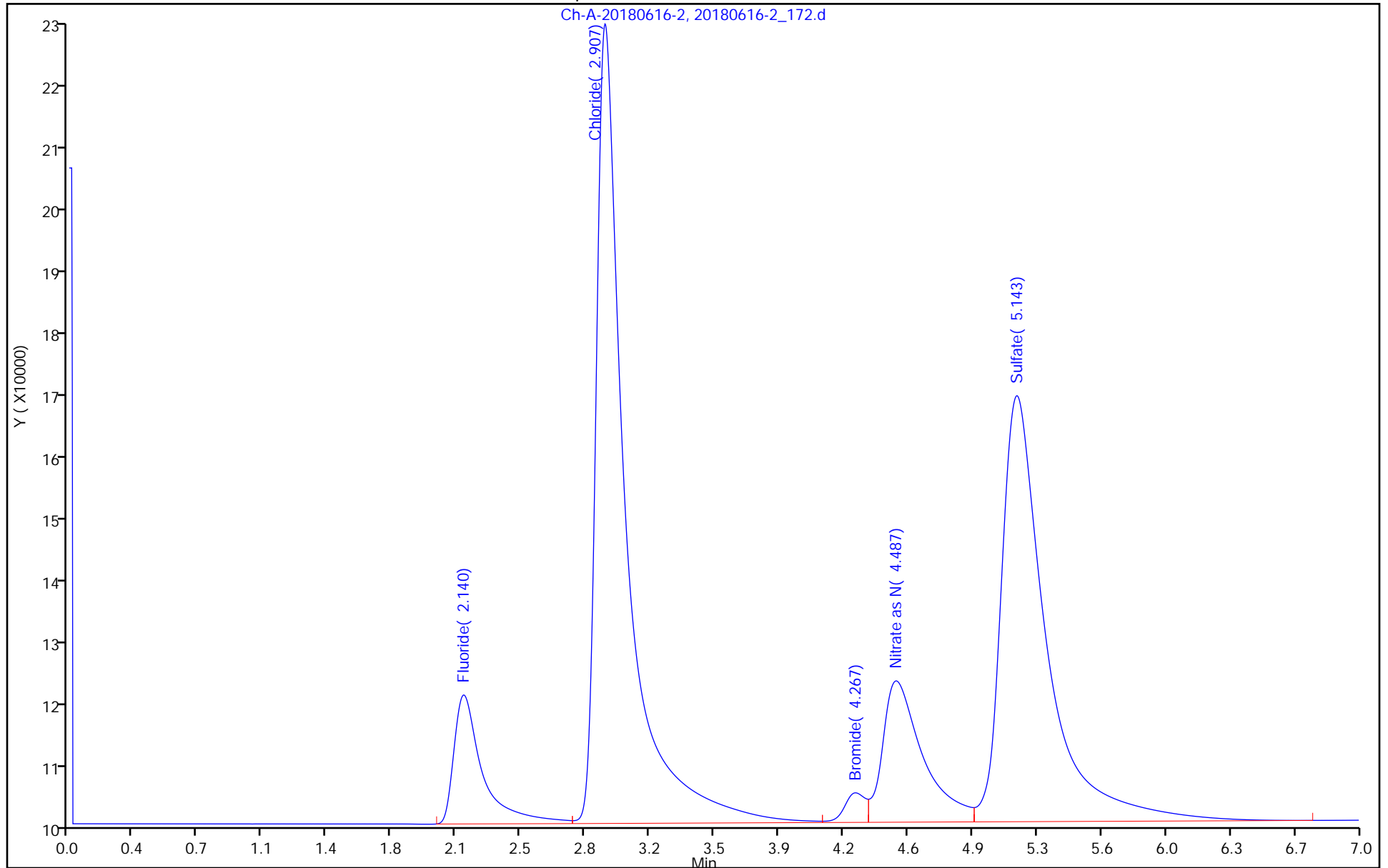
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_173.d
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Jun-2018 20:55:08 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 173 Name: MB
 Misc. Info.: Study: 480-0072531-004 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:33:20

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate	5.320	5.143	0.177	7772	-1.47	
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_173.d

Injection Date: 21-Jun-2018 20:55:08

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: MB

Worklist Smp#: 4

Client ID:

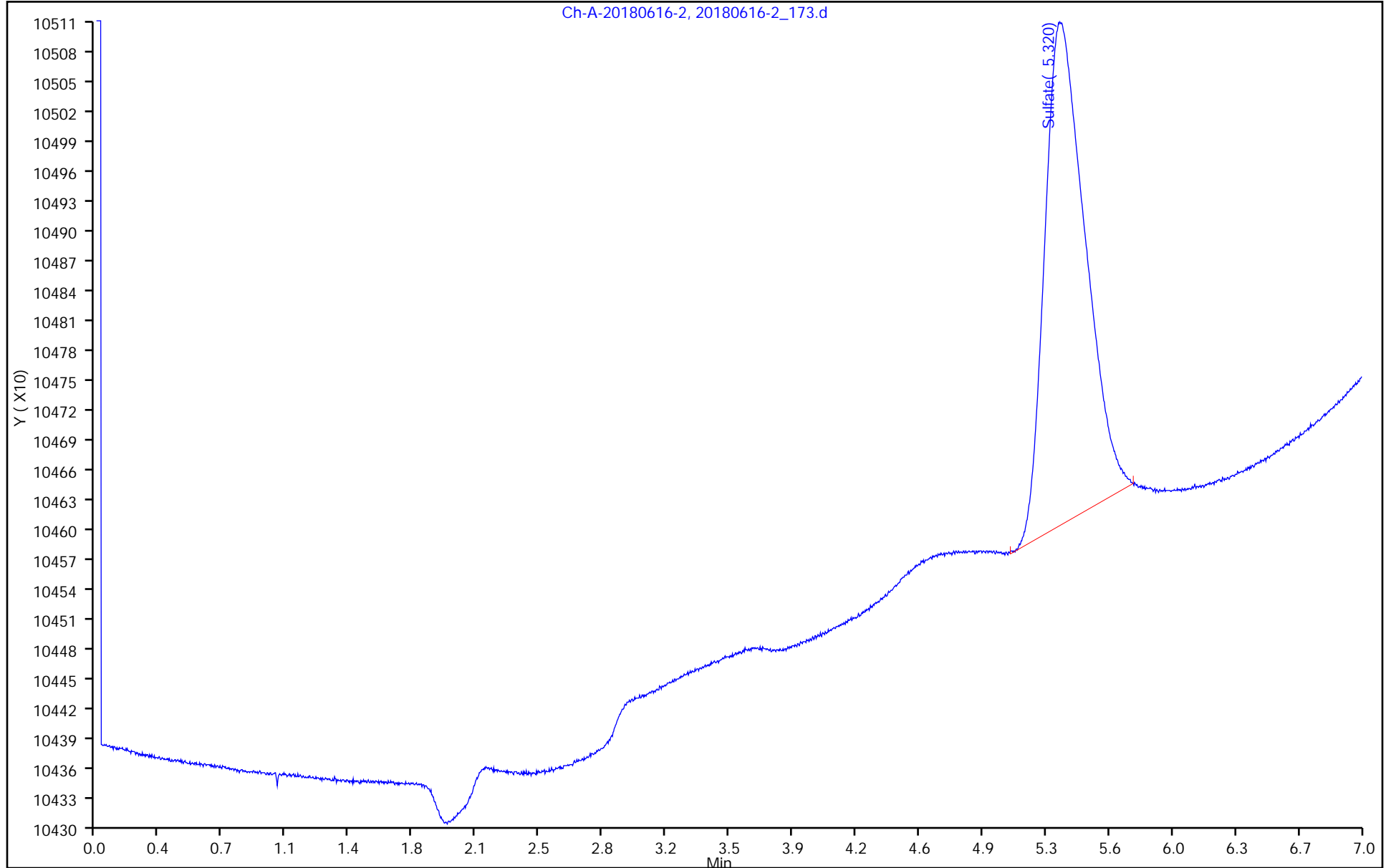
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_175.d
 Lims ID: 480-137605-E-1
 Client ID: ML-2-D
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:11:25 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 175 Name: 480-137605-E-1
 Misc. Info.: Study: 480-0072531-006 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 21:34:09

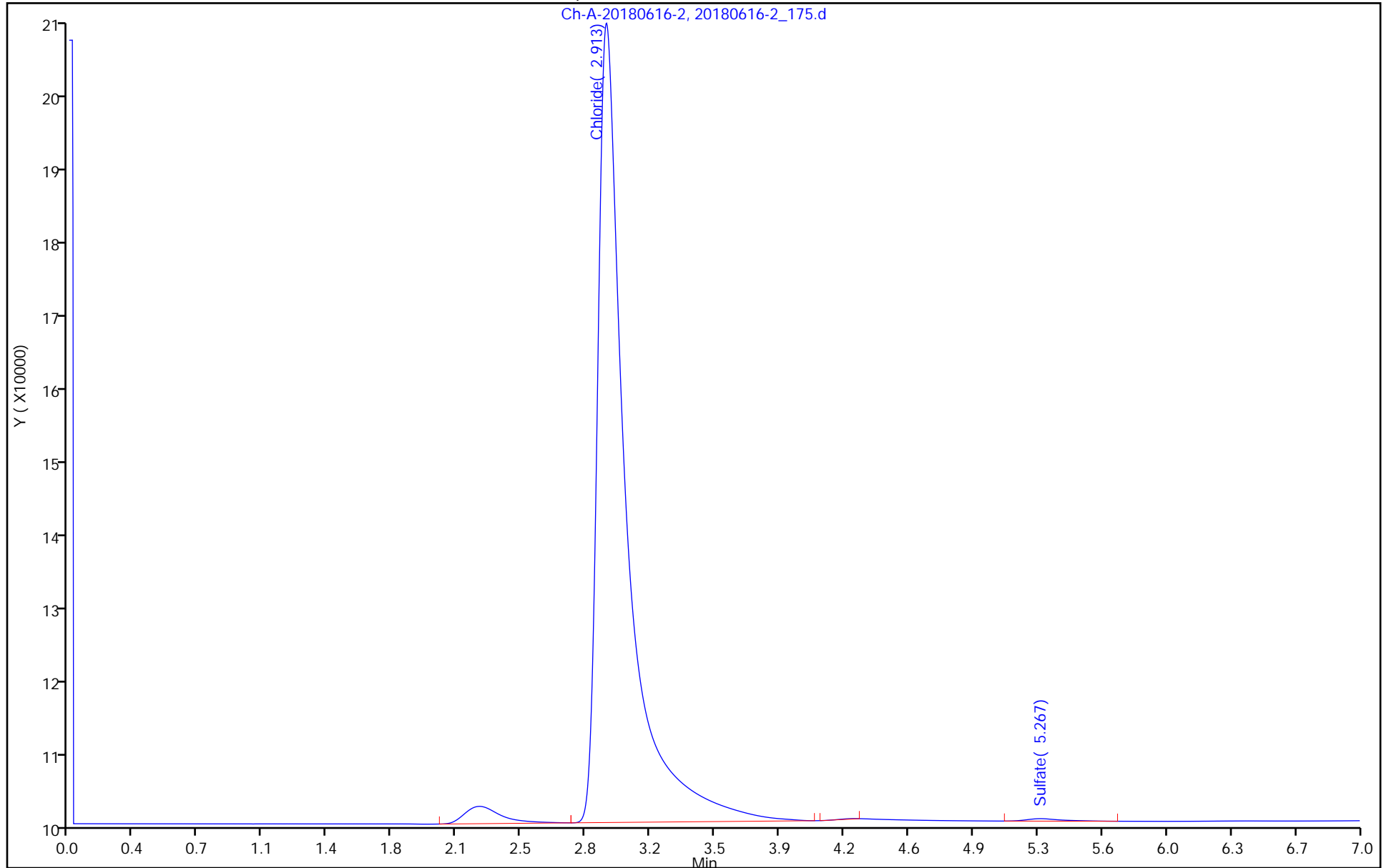
RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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2 Chloride					
2.913	2.920	-0.007	1094608	41.1	
5 Sulfate					
5.267	5.143	0.124	4037	-1.65	

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_175.d
Injection Date: 21-Jun-2018 21:11:25 Instrument ID: IC-2
Lims ID: 480-137605-E-1 Lab Sample ID: 480-137605-1
Client ID: ML-2-D
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Method: IC2-300 Limit Group: MB 9056 ICAL

Operator ID: TChrom
Worklist Smp#: 6
ALS Bottle#: 0



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_176.d
 Lims ID: 480-137605-E-3
 Client ID: ML-2-I
 Sample Type: Client
 Inject. Date: 21-Jun-2018 21:19:33 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 10.0000
 Sample Info: #: 176 Name: 480-137605-E-3
 Misc. Info.: Study: 480-0072531-007 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:13 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 21-Jun-2018 22:06:23

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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2 Chloride
 2.913 2.920 -0.007 1071870 40.2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_176.d

Injection Date: 21-Jun-2018 21:19:33

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: 480-137605-E-3

Lab Sample ID: 480-137605-3

Worklist Smp#: 7

Client ID: ML-2-I

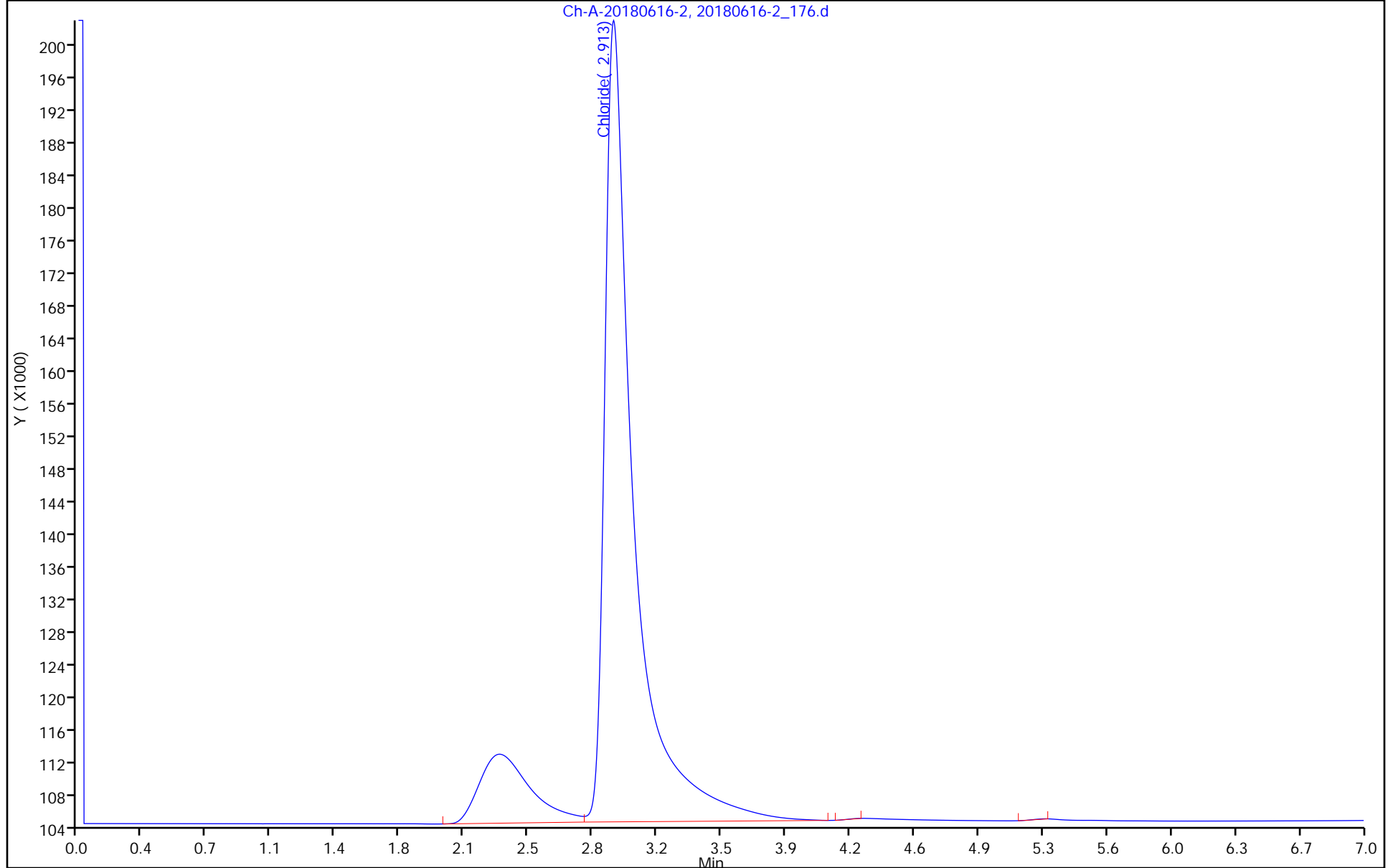
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL

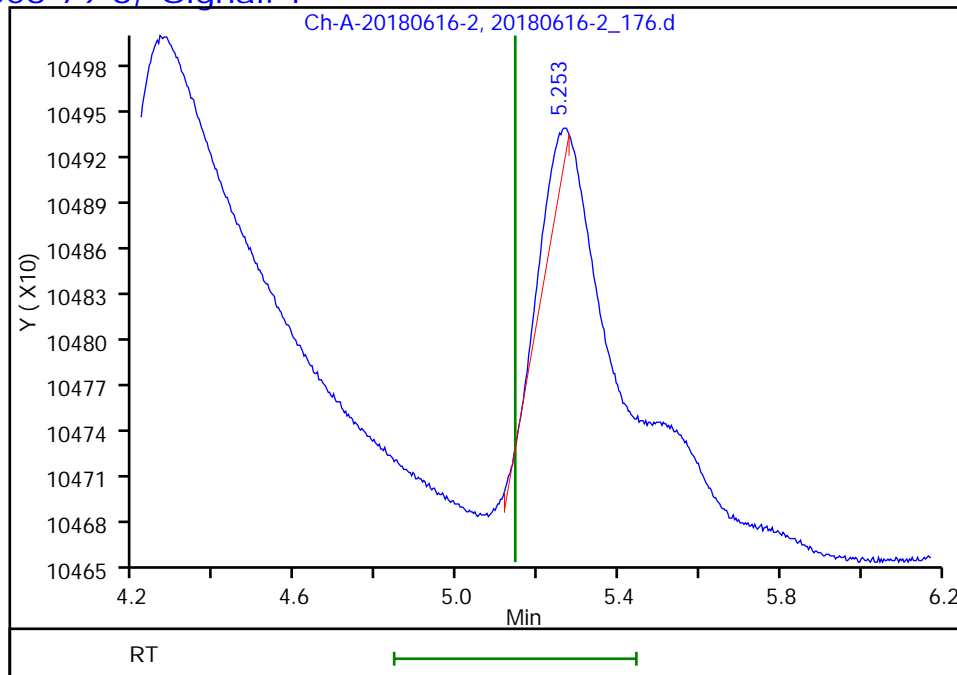


TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_176.d				
Injection Date:	21-Jun-2018 21:19:33	Instrument ID:	IC-2		
Lims ID:	480-137605-E-3	Lab Sample ID:	480-137605-3		
Client ID:	ML-2-I				
Operator ID:	TChrom	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	IC2-300	Limit Group:	MB 9056 ICAL		
Column:		Detector	Ch-A-092410-2		

5 Sulfate, CAS: 14808-79-8, Signal: 1

RT: 5.25
Response: 182
Amount: -1.834486



Reviewer: richardsd, 21-Jun-2018 22:06:23
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_182.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Jun-2018 22:08:25 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 182 Name: CCV
 Misc. Info.: Study: 480-0072531-013 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Sublist: chrom-IC2-300*sub2

Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:24 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d

Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:21:19

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
1 Fluoride						M
2.147	2.147	0.000	212887	5.00	5.25	M
2 Chloride						
2.917	2.917	0.000	1363375	50.0	51.2	
3 Bromide						
4.273	4.273	0.000	35862	5.00	3.47	
4 Nitrate as N						
4.493	4.493	0.000	326508	NC	NC	
5 Sulfate						
5.140	5.140	0.000	1095287	50.0	51.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

IC_ANION_LCS__00207 Amount Added: 5000.00 Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_182.d

Injection Date: 21-Jun-2018 22:08:25

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCV

Worklist Smp#: 13

Client ID:

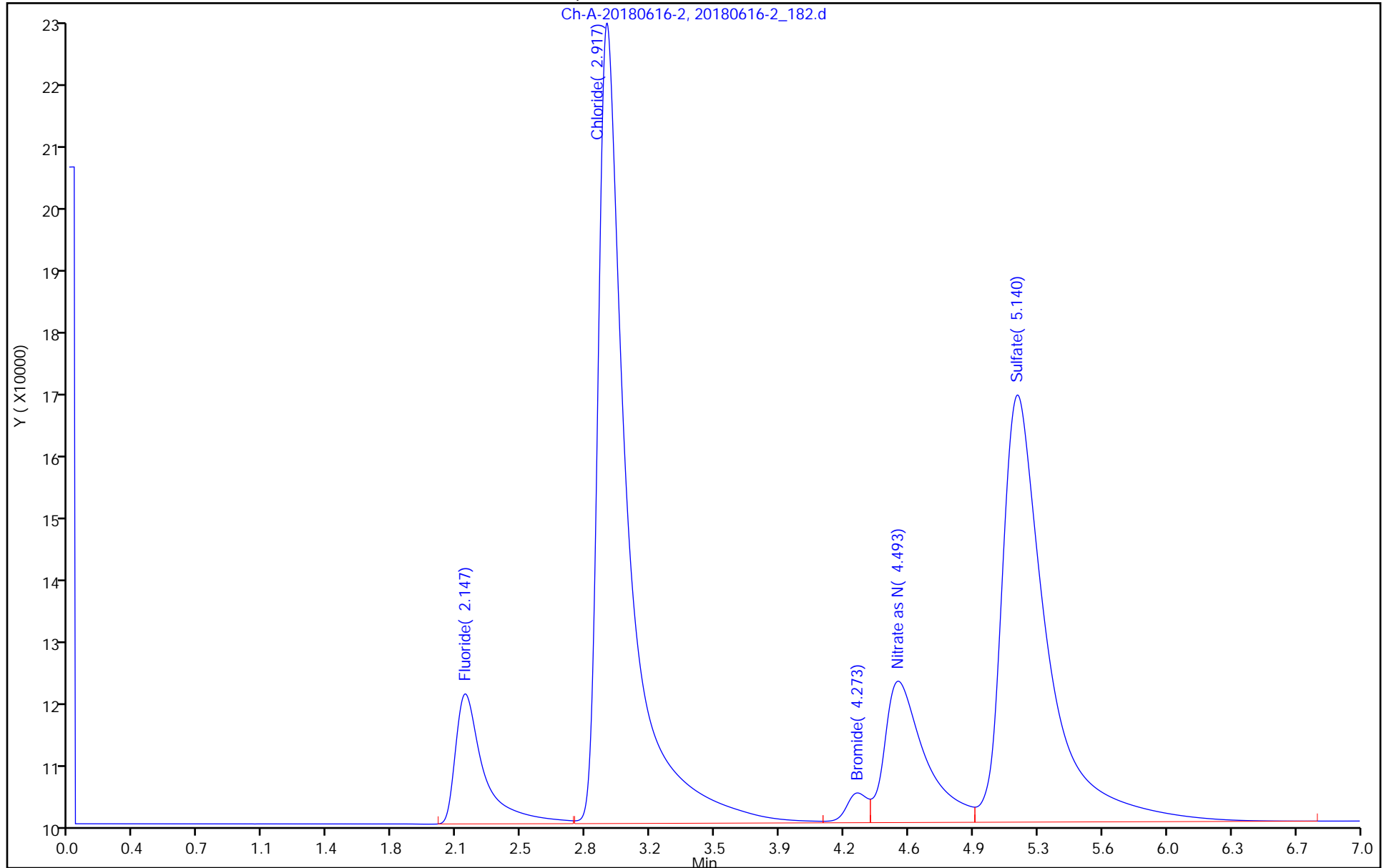
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_183.d
 Lims ID: CCB
 Client ID:
 Sample Type: CCB
 Inject. Date: 21-Jun-2018 22:16:34 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #: 183 Name: CCB
 Misc. Info.: Study: 480-0072531-014 Channel A: I/F Serial#, 6254272415
 Operator ID: TChrom Instrument ID: IC-2
 Method: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\IC2-300.m
 Limit Group: MB 9056 ICAL
 Last Update: 22-Jun-2018 11:54:24 Calib Date: 08-Jun-2018 12:56:28
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\IC-2\20180607-72157.b\20180605-2_210.d
 Column 1 : Det: Ch-A-092410-2
 Process Host: XAWRK018

First Level Reviewer: richardsd Date: 22-Jun-2018 11:21:22

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 Sulfate	5.337	5.137	0.200	8913	-1.41	
-----------	-------	-------	-------	------	-------	--

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\IC-2\20180621-72531.b\20180616-2_183.d

Injection Date: 21-Jun-2018 22:16:34

Instrument ID: IC-2

Operator ID: TChrom

Lims ID: CCB

Worklist Smp#: 14

Client ID:

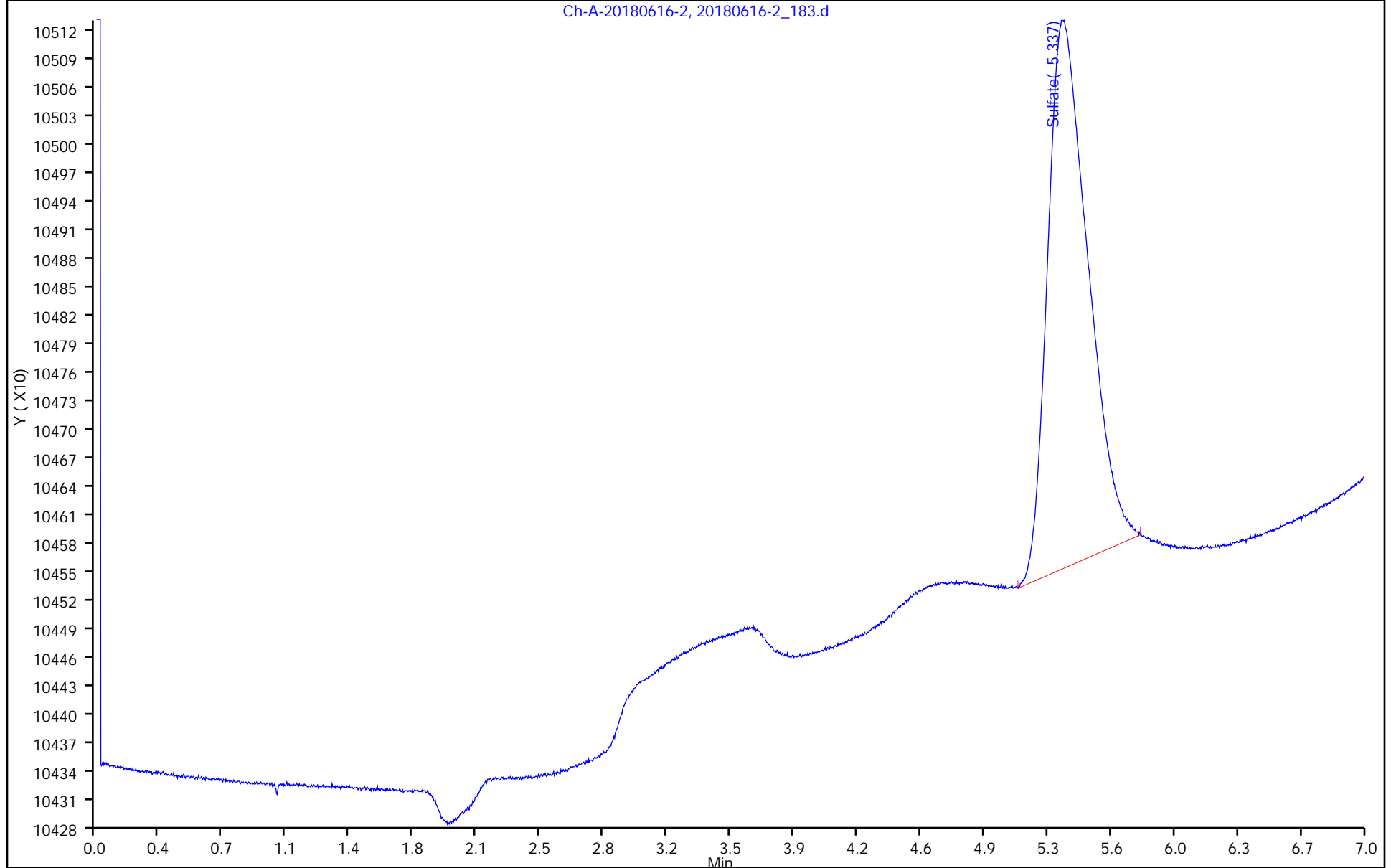
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: IC2-300

Limit Group: MB 9056 ICAL



CURVE ON NEW SPEC 2

Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

418534

Analyst: MAL	Calibration Curve Information		
Start Date: 6-7-18		Conc. (mg/L)	ABS.
Start Time: 1245	STD1	0.000	0.000
End Time:	Std. 2	0.100	0.019
	Std. 3	0.500	0.074
DATE OF CURVE= 4/6/2018	Std. 4	1.000	0.160
	Std. 5	3.000	0.399

469836
 CURVE SOLUTION:
 4562865

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9977
Slope:	0.13206
Intercept:	0.00890

PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	4562862 4698495
0.7625 of FAS (3916794) up to 0.5L	6-7-18
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	3188795

4595762

LCS Information:	
Solution #	4565972
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4565972
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
MB	BLANK	25			0.000	1	ND	ND		
LCS	2 PPM	25			0.000	1	ND	ND	#VALUE!	
	0	25	0		0.000	1	ND	ND		
	0.1	25	0.021		0.000	1	ND	ND		
	0.5	25	0.091		0.000	1	ND	ND		
	1.0	25	0.173		0.000	1	ND	ND		
	3.0	25	0.509		0.000	1	ND	ND		
(2 PPM) ICV		25	0.374		2.1954 2.000	1	ND	ND	110%	
ICB		25	0		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

MAL
 6-7-18

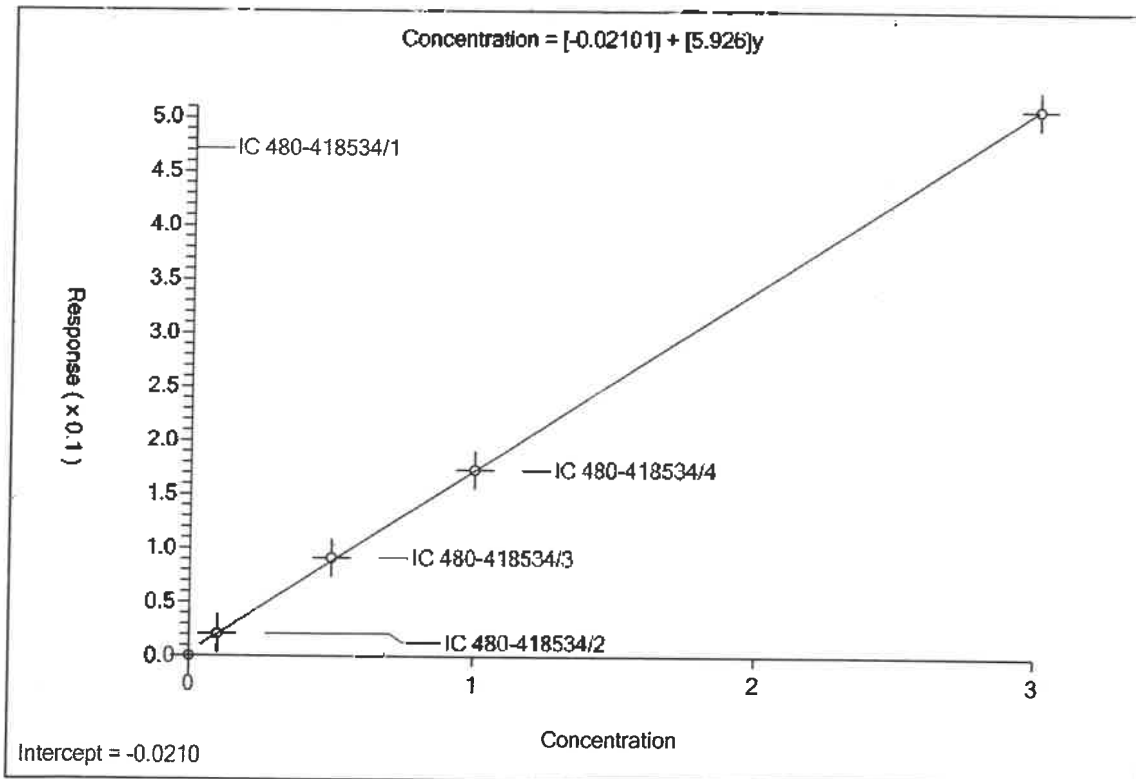
Calibration

Calib 418534-0 / Ferrous Iron

Curve Type: Linear
 Weighting: None
 Origin: None
 Dependency: Concentration
 Calib Mode: ESTD
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	-0.02101
Slope:	5.926
Error Coefficients	
Standard Error:	0.0166
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	RF	IS Response	RF	Used
1	IC 480-418534/1	0.0	0.0		NaN		NaN	Y
2	IC 480-418534/2	0.021	0.021		0.0523		0.21	Y
3	IC 480-418534/3	0.091	0.091		0.0455		0.182	Y
4	IC 480-418534/4	1.0	0.173		0.0413		0.173	Y
5	IC 480-418534/5	3.0	0.509		0.04167		0.169667	Y



Laboratory Bench Sheet
FERROUS IRON
 Genesys 2

TestAmerica - Buffalo

420230

Analyst: MDL		Calibration Curve Information	
Start Date: 6-18-18		Conc. (mg/L)	ABS.
Start Time: 1300		STD1	0.000
End Time:		Std. 2	0.100
		Std. 3	0.500
		Std. 4	1.000
DATE OF CURVE= 6/7/2018		Std. 5	3.000
			0.021
			0.091
			0.173
			0.500

CURVE SOLUTION:
 4582863

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9999
Slope:	0.16873
Intercept:	0.00357

PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L
ICV INFORMATION	
Solution #	
0.7025 of FAS (3916794) up to 0.5L	
Concentration (mg/L)	2.00
ICV	True value: 2.00

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	9488795
	4595762
	MDL 6-18-18

LCS information:	
Solution #	4717546
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:	
Solution #	4717546
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25	0.306		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		
MB	BLANK	25	0		0.000	1	ND	ND		
LCS	2 PPM	25	0.320		0.000	1	ND	ND	#VALUE!	
137185	E-1	25	0.125	0.099	0.000	1	ND	ND		
↓	E-1 DV	25	0.130	0.103	0.000	1	ND	ND		
137434	B-1	25	0.065	0.048	0.000	1	ND	ND		
↓	D-2	25	0.371	0.353	0.000	1	ND	ND		
137527	B-1	25	0.010	0.011	0.000	1	ND	ND		
↓	C-2	25	0.005	0.003	0.000	1	ND	ND		
↓	C-2ms	25	0.171	0.003	0.000	1	ND	ND		
137605	B-1	25	0.098	0.082	0.000	1	ND	ND		
CCV	2 PPM	25	0.359		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		
137605	B-3	25	0.122	0.120	0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25	0.357		0.000	1	ND	ND		
CCB	BLANK	25	0		0.000	1	ND	ND		

MDL
 6-18-18

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 420512 Batch Start Date: 06/19/18 20:55 Batch Analyst: Bond, Diana C

Batch Method: 353.2 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
480-137605-C-1	ML-2-D	353.2	T	5 mL	5 mL				
480-137605-D-3	ML-2-I	353.2	T	5 mL	5 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 420855 Batch Start Date: 06/21/18 10:44 Batch Analyst: Bauer, Matthew J

Batch Method: SM 4500 S2 F Batch End Date: 06/21/18 11:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	BuretStart1	BuretStop1	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount
CCV 480-420855/1		SM 4500 S2 F		0.00 mL	2.50 mL	5 mL	2.5 mL	100 mL	100 mL
CCB 480-420855/2		SM 4500 S2 F		2.50 mL	3.50 mL	1 mL	1 mL	100 mL	100 mL
MB 480-420855/3		SM 4500 S2 F		3.50 mL	4.50 mL	1 mL	1 mL	100 mL	100 mL
LCS 480-420855/4		SM 4500 S2 F		4.50 mL	7.30 mL	5 mL	2.8 mL	100 mL	100 mL
480-137605-A-1	ML-2-D	SM 4500 S2 F	T	13.60 mL	14.60 mL	1 mL	1 mL	100 mL	100 mL
480-137605-A-1 DU	ML-2-D	SM 4500 S2 F	T	14.60 mL	15.60 mL	1 mL	1 mL	100 mL	100 mL
CCV 480-420855/13		SM 4500 S2 F		15.60 mL	18.10 mL	5 mL	2.5 mL	100 mL	100 mL
CCB 480-420855/14		SM 4500 S2 F		18.10 mL	19.10 mL	1 mL	1 mL	100 mL	100 mL
480-137605-A-3	ML-2-I	SM 4500 S2 F	T	19.10 mL	20.10 mL	1 mL	1 mL	100 mL	100 mL
CCV 480-420855/16		SM 4500 S2 F		20.10 mL	22.50 mL	5 mL	2.4 mL	100 mL	100 mL
CCB 480-420855/17		SM 4500 S2 F		22.50 mL	23.50 mL	1 mL	1 mL	100 mL	100 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00238	Sulfide LCS 00238				
CCV 480-420855/1		SM 4500 S2 F		1 mL					
CCB 480-420855/2		SM 4500 S2 F							
MB 480-420855/3		SM 4500 S2 F							
LCS 480-420855/4		SM 4500 S2 F			1 mL				
480-137605-A-1	ML-2-D	SM 4500 S2 F	T						
480-137605-A-1 DU	ML-2-D	SM 4500 S2 F	T						
CCV 480-420855/13		SM 4500 S2 F		1 mL					
CCB 480-420855/14		SM 4500 S2 F							
480-137605-A-3	ML-2-I	SM 4500 S2 F	T						
CCV 480-420855/16		SM 4500 S2 F		1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 420855 Batch Start Date: 06/21/18 10:44 Batch Analyst: Bauer, Matthew J

Batch Method: SM 4500 S2 F Batch End Date: 06/21/18 11:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	Sulfide CCV 00238	Sulfide LCS 00238				
CCB 480-420855/17		SM 4500 S2 F							

Batch Notes	
Buret ID	1
Hydrochloric Acid ID	4716898
Iodine ID	4449717
Normality of Iodine Solution	0.025 N
Sodium Thiosulfate ID	4487459
Nominal Amount Used	100 mL
Starch Reagent ID	4454657
Normality of First Titrant	0.025 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 418515 Batch Start Date: 06/08/18 12:15 Batch Analyst: Abramo, Charles L

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	IC_ANION_STD 00036				
IC 480-418515/5		9056A		5 mL	2.5 uL				
IC 480-418515/6		9056A		5 mL	10 uL				
IC 480-418515/7		9056A		5 mL	25 uL				
IC 480-418515/8		9056A		5 mL	100 uL				
IC 480-418515/9		9056A		5 mL	250 uL				
IC 480-418515/10		9056A		5 mL	500 uL				

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	11703055

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 420962 Batch Start Date: 06/21/18 20:30 Batch Analyst: Richards, Devon M

Batch Method: 9056A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	IC_ANION LCS_00207			
CCV 480-420962/1		9056A		5 mL		5000 uL			
CCB 480-420962/2		9056A		5 mL					
LCS 480-420962/3		9056A		5 mL	1.0 mL	5000 uL			
MB 480-420962/4		9056A		5 mL					
480-137605-E-1	ML-2-D	9056A	T	5 mL					
480-137605-E-3	ML-2-I	9056A	T	5 mL					
CCV 480-420962/13		9056A		5 mL		5000 uL			
CCB 480-420962/14		9056A		5 mL					

Batch Notes	
Eluent 1 ID	170531264012
Filter ID	11703055

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 418534 Batch Start Date: 06/07/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm ICV 00020	
IC 480-418534/1		SM 3500 FE D		100 mL	100 mL	0 Absorbance	OK w/o Correction		
IC 480-418534/2		SM 3500 FE D		100 mL	100 mL	0.021 Absorbance	OK w/o Correction	0.05 mL	
IC 480-418534/3		SM 3500 FE D		100 mL	100 mL	0.091 Absorbance	OK w/o Correction	0.25 mL	
IC 480-418534/4		SM 3500 FE D		100 mL	100 mL	0.173 Absorbance	OK w/o Correction	0.5 mL	
IC 480-418534/5		SM 3500 FE D		100 mL	100 mL	0.509 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Batch Number: 420230 Batch Start Date: 06/18/18 13:00 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00022
CCV 480-420230/1		SM 3500 FE D		25 mL	25 mL		0.306 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-420230/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-420230/4		SM 3500 FE D		25 mL	25 mL		0.320 Absorbance	OK w/o Correction	0.25 mL
480-137605-B-1	ML-2-D	SM 3500 FE D	T	25 mL	25 mL	0.082 Absorbance	0.098 Absorbance	OK	
CCV 480-420230/13		SM 3500 FE D		25 mL	25 mL		0.359 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/14		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
480-137605-B-3	ML-2-I	SM 3500 FE D	T	25 mL	25 mL	0.120 Absorbance	0.122 Absorbance	OK	
CCV 480-420230/16		SM 3500 FE D		25 mL	25 mL		0.357 Absorbance	OK w/o Correction	0.25 mL
CCB 480-420230/17		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record



Client Information Lab PM: Deyo, Melissa L Phone: (585) 471-7307 E-Mail: melissa.deyo@testamericainc.com		Lab No: 480-114142 Page: 3 of 3 Job #: 480-137605 COC	
Sampler: Jensen Porter Lab PM: Deyo, Melissa L Phone: (585) 471-7307 E-Mail: melissa.deyo@testamericainc.com		Carrier Tracking No(s):	
Due Date Requested: TAT Requested (days):		Analysis Requested	
PO #: 210173 WO #:		8260C - TCL VOCs + TICs 3500, FE, D - Ferrous Iron SM4500, 52, F - Sulfide RSK, 175 - Ethane & Ethene 353.2, 353.2, Nitrite, Nitrate, Sulfate 9056A, 28D - Chloride & Sulfate	
Email: aengelbert@labellapc.com Project Name: jporter@labella.com Former: Emerson Street Landfill Project Site: FESL		Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)	
Address: Labella Associates DPC 300 State Street Suite 201 City: Rochester State, Zip: NY, 14614 Phone:		Total Number of containers	
Matrix (Washer, Wash, Opacitrol, Other)		Special Instructions/Note: MS/MSD on VOC 3 VOC only	
Sample Identification ML-2-D/MS/MSD DUPE ML-2-I		Sample Date 6/15/18 6/15/18 6/15/18	
Sample Type (C=Comp, G=grab) Preservation Code:		RSK, 175 - Ethane & Ethene 353.2, 353.2, Nitrite, Nitrate, Sulfate 9056A, 28D - Chloride & Sulfate Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, IV, Other (specify) *MS/MS EQUIS FOR ASP Cat. B Report*		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: Jensen Porter Date/Time: 6/15/18 1730 Company: Labella		Relinquished by: Jensen Porter Date/Time: 6/15/18 1730 Company: Labella	
Relinquished by: Jensen Porter Date/Time: 6/15/18 1730 Company: Labella		Relinquished by: Jensen Porter Date/Time: 6/15/18 1730 Company: Labella	
Relinquished by: Jensen Porter Date/Time: 6/15/18 1730 Company: Labella		Relinquished by: Jensen Porter Date/Time: 6/15/18 1730 Company: Labella	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: # 2.8	

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-137605-1

Login Number: 137605
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Labella
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



APPENDIX 4

Cascade Report

LaBella Former Emerson Street Landfill, ZVI Injection Report

Pneumatic Enhancement and ZVI Injection

1700 Emerson Street, Rochester, NY

AUGUST 11 2017

Submitted to:

LaBella Associates, D.P.C
300 State Street, Suite 201
Rochester, NY 14614

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FIGURES

Figure 1 Pneumatic Enhancement Pressure History Curve Injection Boring IP-4:29 – 32 ft. bgs.

APPENDICES

Appendix A Summary Data Sheets

Appendix B Pneumatic Enhancement Pressure History Curve at IP-3 Interval 31.5 - 34.5 ft bgs, IP-3 Interval 28.5 – 31.5 ft. bgs, IP – 3 Interval 25.5 – 28.5 ft. bgs, IP – 4 Interval 35 - 38 ft. bgs, IP – 4 Interval 32 - 35 ft. bgs, IP – 4 Interval 29 - 32 ft. bgs, IP – 4 Interval 26 - 29 ft. bgs, IP – 5 Interval 33 - 36 ft. bgs, IP – 5 Interval 30 - 33 ft. bgs, and IP – 5 Interval 28 – 31 ft bgs, IP – 5 Interval 26 – 29 ft bgs.

Appendix C Site Photos

GLOSSARY

DL	Daylighting
BGS	Below Ground Surface
ND	Not Detectable
PE	Pneumatic Enhancement
HE	Hybrid Enhancement
PSI	Pounds Per Square Inch
ROI	Radius of Influence
CFM	Cubic Feet per Minute
ZVI	Zero-Valent Iron
IP	Injection Point

1.0 INTRODUCTION

LaBella Associates subcontracted Cascade Technical Services (CTS) to perform Hydraulic Injections at 2 points installed within a blast-enhanced bedrock trench at depths up to 15 ft below top of rock. Also to perform pneumatic enhanced injections at 3 locations at depths up to 15 ft below top of rock at their former Emmerson Street Landfill site in Rochester NY.

1.1 OBJECTIVE

To hydraulically inject the target treatment zones in each of the 2 designated pre drilled blast-enhanced injections points and pneumatically enhance the target treatment zone in each of the 3 designated pre drilled locations at the site and deliver the pre-determined dosage of Zero-Valent Iron (ZVI). Upon completion of injections, each injection point is capped and left open for possible re-injections at a later date.

2.0 TECHNOLOGY BACKGROUND

Pneumatic Enhancement (PE) can be described as a process by which a gas is injected into the subsurface at pressures exceeding the natural *insitu* pressures (i.e. overburden pressure, cohesive stresses, etc.) and at flow volumes exceeding the natural permeability of the formation. The result is the enhancement of existing fractures and planes of weakness (for example deposition planes) and the propagation of a fracture surrounding the injection borehole. In turn, this enhances the overall effective bulk permeability of the formation thus allowing the selected *insitu* treatment approach to work more effectively.

2.1 Pneumatic Enhancement

PE is applied using a skid mounted high pressure-high flow injection module which controls the pressure and flow of compressed nitrogen gas. The module consists of an injection control manifold, a digital data logger, pneumatic activated ball valve, hi-pressure/flow gas regulator and other safety components to monitor and control various operational parameters of the injection. Since the gas enhancement relies on sufficient pressures to overcome the natural *insitu* stresses in the formation and sufficient gas flow to overcome the natural permeability of the formation, precise control of injection pressures and flows is required. The duration of the gas injections typically ranges between 10 to 15 seconds.

Enhancement Initiation and Maintenance Pressures: During each PE event, pressures in the discrete interval are recorded by a pressure transducer located in-line within the pipe leading to the injection nozzle. These pressures are recorded by a data logging system located on the injection module and accessed using a laptop computer. By comparing the magnitude and shape of the pressure-history curve to previously collected curves in similar geology, an

assessment can be made on whether enhancement initiation and propagation occurred. This information allows the evaluation of two critical measurements: the initiation pressure and the maintenance pressure. A typical PE event can be subdivided into three distinct stages consisting of:

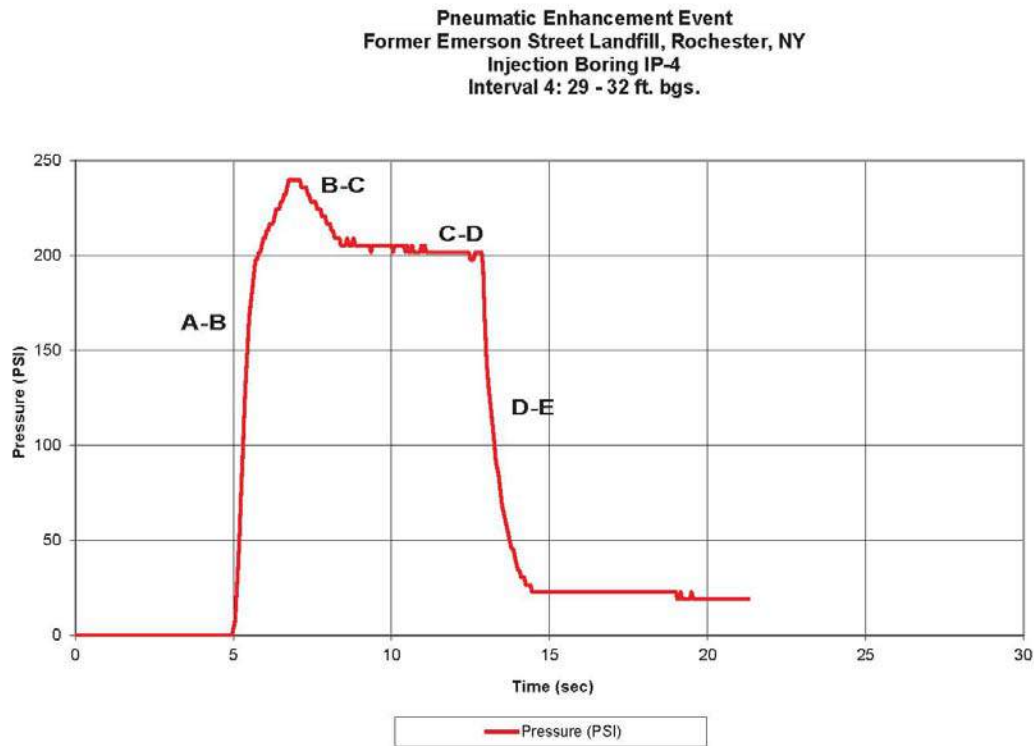
- Breakdown of Formation
- Initiation
- Maintenance

These independent stages are illustrated in **Figure 1**. It should be noted that the shape of the pressure-time history curve depends on a number of factors including *insitu* stress fields, geologic characteristics of the medium being enhanced and the man-made disturbances (boreholes, utilities, etc.) which can influence enhancement. Sample curves for some intervals where PE was applied can be found in **Appendix B**.

The following section describes each stage as it relates to the PE mechanism as illustrated in Figure 1.

During the first stage identified as “breakdown”, the pressure rapidly builds up as gas is injected into the discrete sealed interval of the borehole. This stage is identified as curve segment A-B. The formation of these initial elevated pressures result from the fact that the formation is not yet enhanced and still has low permeability. This stage is relatively short and typically lasts 1-2 seconds. Once the pressure exceeds the *insitu* stress conditions and media strength prevailing within the sealed pressurized interval, the formation yields and enhancement initiation instantaneously occurs. The pressure at this instant is identified as the initiation pressure identified as Stage B in Figure 1. Following the instantaneous initiation stage, the pressure decreases rapidly in the sealed interval and eventually stabilizes at a pressure plateau as the injection continues. During this time period, a high volume of gas rushes out of the pressurized interval and propagates radially into the formation. This accounts for the rapid decline in the borehole pressure as represented by curve segment B-C. The pressure plateau C-D represents a period of the enhancement maintenance and dilation, which is nearly constant for the remainder of the injection period. This pressure indicates that an equilibrium state has been attained for that particular injection flow rate. During this period, the flow rate into the formation exactly equals the leak-off into the formation from the enhancement surfaces and tips. As the injection pressure is terminated, the maintenance pressure declines rapidly from D-E. It is important to note that not every injection event or fracture propagation event has a distinct shape of curve. Many geologic anomalies (both natural and man-made) can affect the magnitude and shape of the pressure response curve.

Figure 1 – Example of a Pressure versus Time Curve



IP4-4F

Pressure Influence at Adjacent Monitoring Wells: During the PE events, pressure gauges were placed at selected monitoring wells and adjacent injection borings, where available, to monitor pressure influence. Each pressure gauge is fitted with a maximum drag-arm indicator, which enables the user to monitor the maximum pressure influence at that location during each event. This data also assists in determining which direction the enhancement may have propagated. In addition, the degree of pressure response can often help determine whether a monitoring point has been directly influenced (i.e. propagate outward and intersect wells or boreholes, or indirectly influenced through localized groundwater displacement and/or mounding).

Surface Heave: Ground surface heave is used as a method to detect initiation and propagation. Since soil is a deformable medium, the observed surface heave represents the lower limit of enhancement aperture and radius. Ground surface heave measurements are recorded using

surveying levels and heave rods. When using the visual heave monitoring method, a heave rod was placed at a predetermined radial distance from the well. During each event, the rod was observed for the maximum amount of upward motion (surface heave) and residual or permanent heave.

2.2 ZVI Injection

The current approach to *insitu* reduction of chlorinated hydrocarbons or heavy metals using ZVI employs the emplacement of ZVI to address both residual and dissolved phase contaminants. Through injection of ZVI throughout a contaminant plume, the ZVI powder comes in contact with contaminants and causes them to be converted into nontoxic end products such as chloride, ethane, and ethene.

The ZVI, called Ferox -Flow (-100/+325 mesh) chosen for the remediation sites was provided by Hepure Technologies. Ferox - Flow is a high quality granular iron powder that is produced from cast Iron. It is certifiable 95+% pure iron made from cast iron with over 90% of the particles in the 100-150 micron size range. 2205 lbs. of Ferox - Flow (ZVI) is packaged in the high strength super sacks.

3.0 IMPLEMENTATION SCOPE

This section summarizes the field operations and provides a discussion of the down-hole injection parameters collected during injection activities at the Emerson Street site. Field operations at the site were performed from November 6th through November 10th, 2017. A total of 3 injection points were surveyed and Installed and designated for PE and ZVI Injections. A total of 2 injection points were surveyed and installed within the blast trench and designated for Hydraulic ZVI injection.

Operational parameters collected during each injection event included; discrete injection interval, initiation and operational pressures recorded on the control module and injection pump, mass of amendments emplaced and visual field observations. Surface heave and pressure vs time curves were collected for all points to record the formations response to the injection events. This data is presented in a Summary Data Sheet (**Appendix A**) as well as a collection of pressure vs time curves (**Appendix B**).

The Injection boreholes were preinstalled into the bedrock. A 5 inch steel casing was grouted into bedrock and 4.75 rock hole was drilled and left open below the casing. The holes were drilled using Sonic drilling technology. The locations drilled within the blast frac trench were temporarily lined with 4 inch pvc to prevent the holes from collapse. The PVC was removed for

the Injections. The Injections at all locations were addressed in a “bottom up” injection approach.

A 3.4 inch O.D. packer string, with packers above and below the nozzle (called a “straddle-packer” configuration) was lowered into the borehole. The PE locations were not over drilled to allow for the bottom packer at the bottom Interval so the bottom packer was removed for the first interval. After the bottom Interval was completed the bottom packer was replaced for the remaining Intervals, thereby isolating a discrete fracture interval. The bottom packers were exposed to the formation to create a formation seal and one packer remained inside the casing to create a casing seal. This procedure was applied at all PE locations.

The Blast Frac location was hydraulically injected using the same packers and nozzle set up. Since there was sufficient distribution while hydraulically injecting, all of the material was injected into one location instead of 2 as requested by LaBella.

See **Appendix B** for details pertaining to individual injection locations and intervals. Below is a detailed discussion of significant events that transpired at the site, presented in order of occurrence.

3.1 Former Emerson Street Landfill

The target treatment depths and number of intervals are listed below for all 4 completed injection points.

23' – 38' bgs	IP-2	5 Intervals
25.5' – 38.5' bgs	IP-3,	4 Intervals
26' – 41' bgs	IP-4	5 Intervals
26' – 39 ' bgs	IP-5	5 Intervals

Upon completion of injection activities, each injection point addressed was capped with a well cover for possible future Injections and monitoring.

3.1.1 Pneumatic Enhancement Data – Former Emerson Street Landfill

Enhancement initiation pressures ranged from 200 to 325 PSI with maintenance pressures of 190 to 267 PSI. **Appendix B** displays the pressure vs time curves for Injection Points which were selected as representative of the areas response to the injection events.

Pressure influence during PE events was monitored at adjacent monitoring wells and injection points for all points as well as for other PE events where possible. **Appendix A** displays pressure influence data for all intervals addressed with PE.

Ground surface heave was measured utilizing two heave rods in different directions around each point as well as on any above ground utility or structure. Surface heave was detected during 2 of the PE events. **Appendix A** displays the surface heave data for all intervals where such data was collected within the Former Emerson Street Landfill ZVI area.

3.1.2 ZVI Injection Data – Former Emerson Street Landfill

The ZVI was injected using a Geoloop Piston Pump. ZVI injection pressures ranged from 15 to 60 PSI, with a flow rate of 20 - 60 gpm. Daylighting of ZVI did not occur.

The target mass of ZVI per interval was as follows; 5598 lbs. ZVI to 1225 gallons of water for all intervals at the blast frac location, and 1850 lbs ZVI to 312 gallons of water for all intervals in the PE locations. The ZVI was mixed with the water by weight on a per-interval basis immediately prior to injection.

A total of 55,456 lbs. of Zero-Valent Iron were injected at the Former Emmerson Street Landfill ZVI Site.

4.0 OBSERVATIONS AND CONCLUSIONS

One injection crew was utilized to complete the project.

Backpressure encountered during the application was minimal.

Nearly all Pressure vs Time curves collected at points indicate a higher pressure upon initiation of PE indicating that formation cohesion was overcome and enhancement was achieved

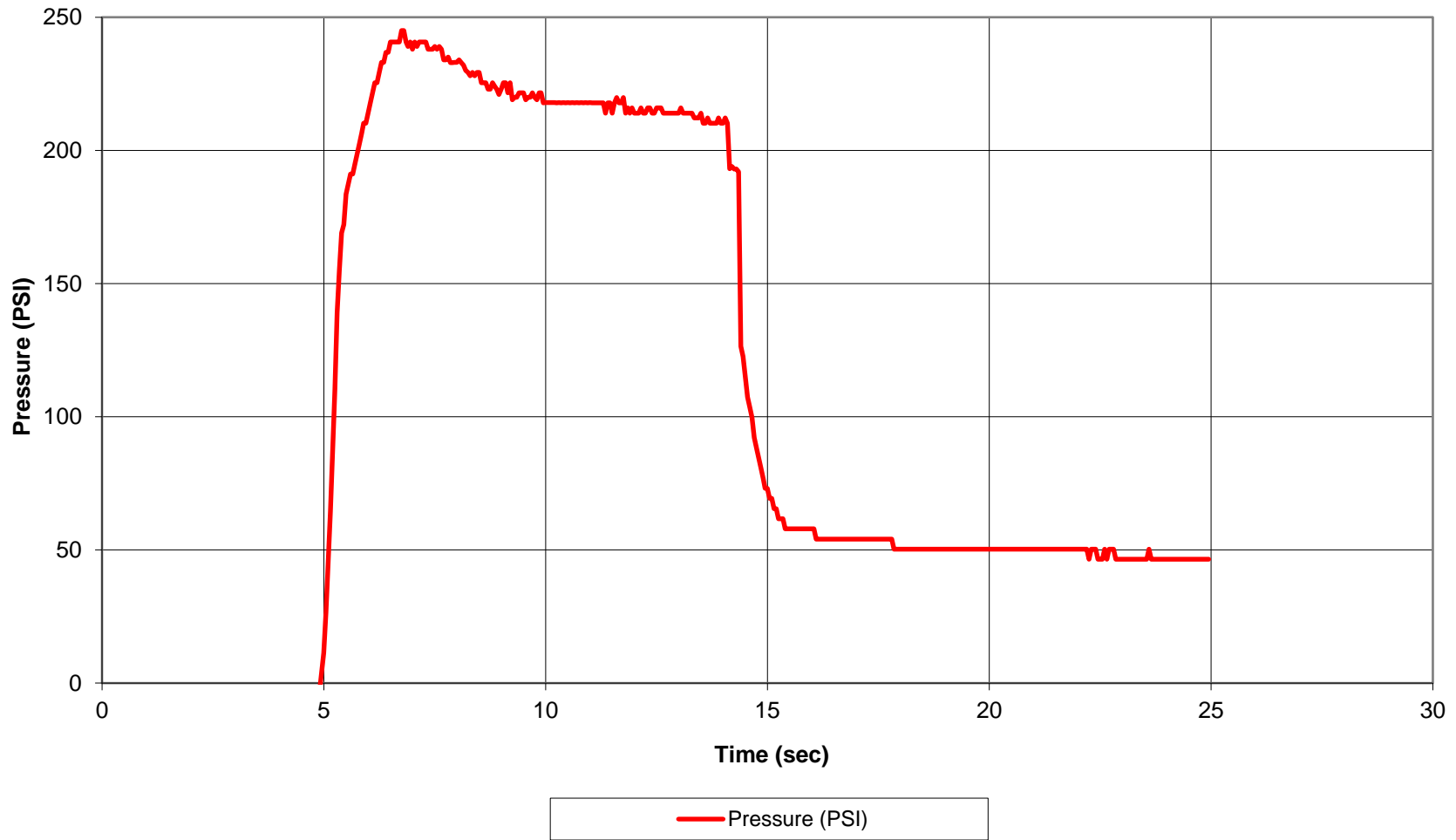
The monitoring well pressure influence data indicated, in some cases, the radius of influence was greater than 20 ft. For example data collected from ML-7S at the blast frac area while injecting on IP-3 in the PE area indicated Influence. Data collected from PRB-4 while injecting on IP-2 indicated influence between intervals 99 ft bgs and 83 ft bgs as well as connection to IP-1 which was completed prior and temporarily sealed with a packer.

Water samples taken from the monitoring locations had ZVI in them Indicating successful distribution.

Pneumatic Emplacement and ZVI Injection Summary Data Sheet																									
Labella Rochester																									
Date	Borehole	Int, ft bgs	Fracture Data		Surface Heave Max / Res Inches		Injection Data					Monitoring Data										Comments			
			Initiation Pressure, PSI	Maintenance Pressure, PSI	Heave Pt 1	Heave Pt 2	Water, lbs	ZVI, lbs	Flow Rate, GPM	Injection Pressure, PSI	Slurry Injected, lbs	Slurry Remaining, lbs	ML-7I	ML-8D	SBW-15	ML-6s	SBW-09	ML-7s	ML-8S						
11/7/2017	IP-2	24-38	-	-	-	-	10200	5529	40-60	15-60	15729	0											split between 6 batches		
		31-34	-	-	-	-	10200	5598	40-45	40-60	15798	0	4.5	1.5	<0	0	0						split between 6 batches		
		27-31	-	-	-	-	10200	5598	30-45	30-60	15798	0				9		11.5	2					split between 6 batches	
11/8/2017	IP-2	25-27	-	-	-	-	10200	5598	30-45	35-50	15798	0				4		4	1				split between 6 batches		
		23-25	-	-	-	-	10200	5598	30-45	30-60	15798	0											split between 6 batches		
														ML-2s	ML-2i	ML-2d	SBW-16	IP-4	ML-1D	SBW7	ML-1I	ML-3S	ML-1S		
11/9/2016	IP-5	36-39	282	267	0/0	0/0	3400	1850	40-50	30-40	5250	0	3	1	4	6	1	16	1				split between 2 batches		
		33-36	265	212	1/16/2000	0/0	3400	1850	35-40	40-60	5250	0	1.5	<15	0	6	<0	<0	<0	<15	<0			split between 2 batches	
		30-33	285	235	0/0	0/0	3400	1850	35-55	40-60	5250	0	2	5	0	1	<0	<0	<0	5.5				split between 2 batches	
		28-30	232	218	0/0	0/0	3400	1850	40-55	40-60	5250	0	2	0	0	0	1		2	<0	<0	2.5		split between 2 batches	
		26-28	225	196	0/0	0/0	3400	1850	35-45	40-60	5250	0	2.5			1	1		2		<0	4		split between 2 batches	
													ML-3D	IP-3	M-L4D	ML-2D	ML-2I	ML-2S	SBW-16	ML-1D	ML-1I	ML-1S	IP-5		
	IP-4	38-41	245	211	0/0	0/0	2568	1850	40	20-30	4418	0	<0	<0	<0	<15	<0	0	7	11	<0	0	0	split between 2 batches	
		35-38	325	235	.25/0	0/0	2568	1850	30-35	60-80	4418	0	<0	2	0	4.5	<15	<0	11.5	4	<15	0	3	split between 2 batches	
32-35		255	225	0/0	0/0	2568	1850	30-35	45-60	4418	0	0	<0	0	0	<15	<0	7.5	0	<15	0	3	split between 2 batches		
29-32		225	195	0/0	0/0	2568	1850	30-45	40-80	4418	0	1	<0	0	0	4	<15	7.5	0	2.5	<0	3	split between 2 batches		
26-29	225	190	0/0	0/0	2568	1850	35	60	4418	0	<0	6.5	0	0	<0	<15	3	0	<0	14	4	split between 2 batches			
												ML3-S	ML3-I	ML3-D	ML5-S	ML4-D	ML2-S	SBW16	IP-4	IP-5					
11/10/2017	IP-3	35.5-38.5	245	220	0/0	0/0	2600	1850	35-50	30-45	4450	0	<0	0	3.5	0	<15	0	<0						
		31.5-34.5	225	203	0/0	0/0	2600	1850	30-40	40-60	4450	0		4		5.5	<0	4		<0					
		28.5-31.5	210	194	0/0	0/0	2600	1850	30-40	40-60	4450	0	<0	2		<0	7	<0	4	<0	<0			Influencing blast frac area ML7S	
		25.5-28.5	200	190	0/0	0/0	5200	3485	30-40	40-60	8685	0	<0	1		<0	4	<0	4	<0	<0			Influencing blast frac area ML7S Split between 4 batches	

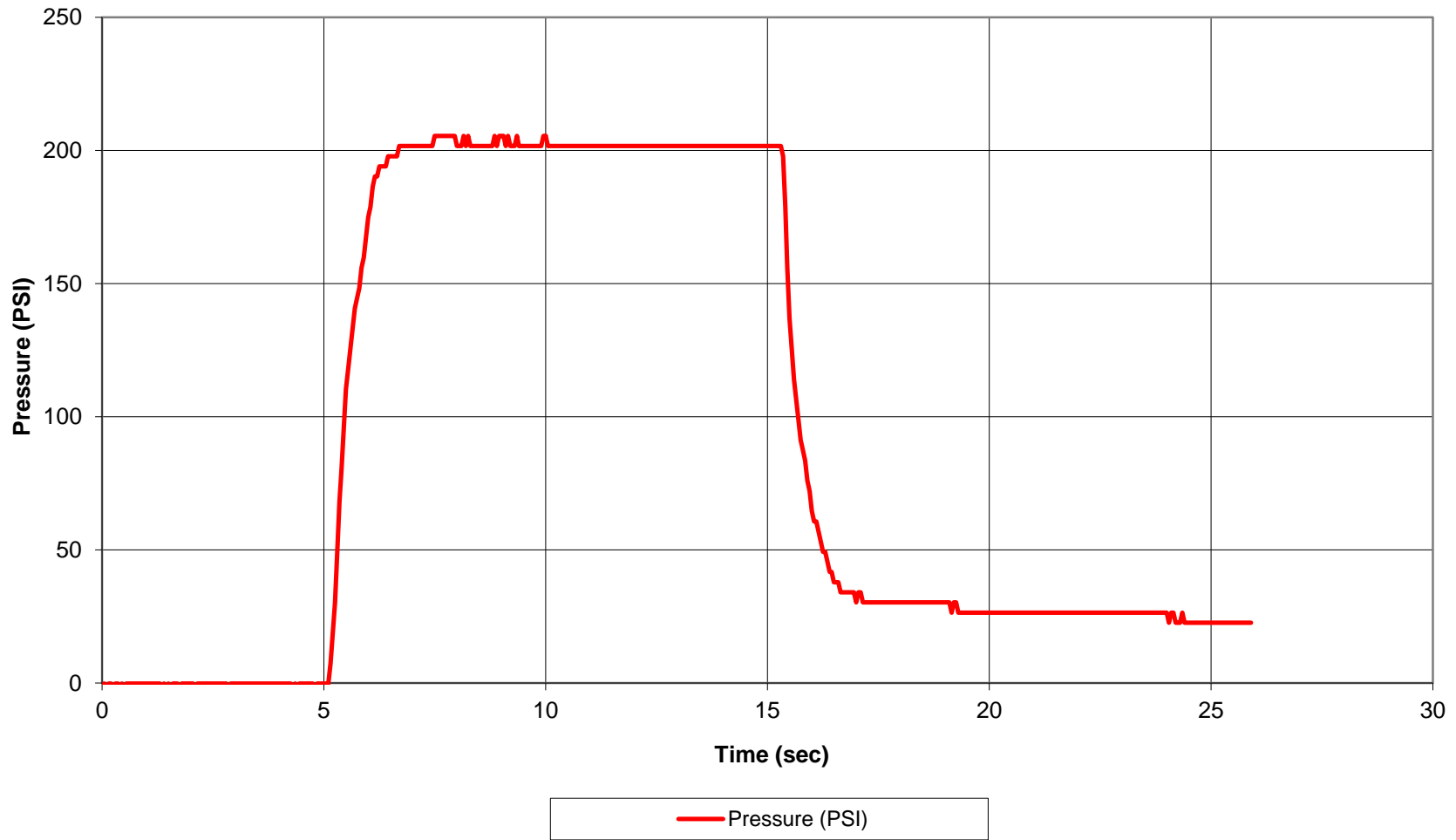
APPENDIX A

**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-3
Interval 1: 35.5 - 38.5 ft. bgs.**



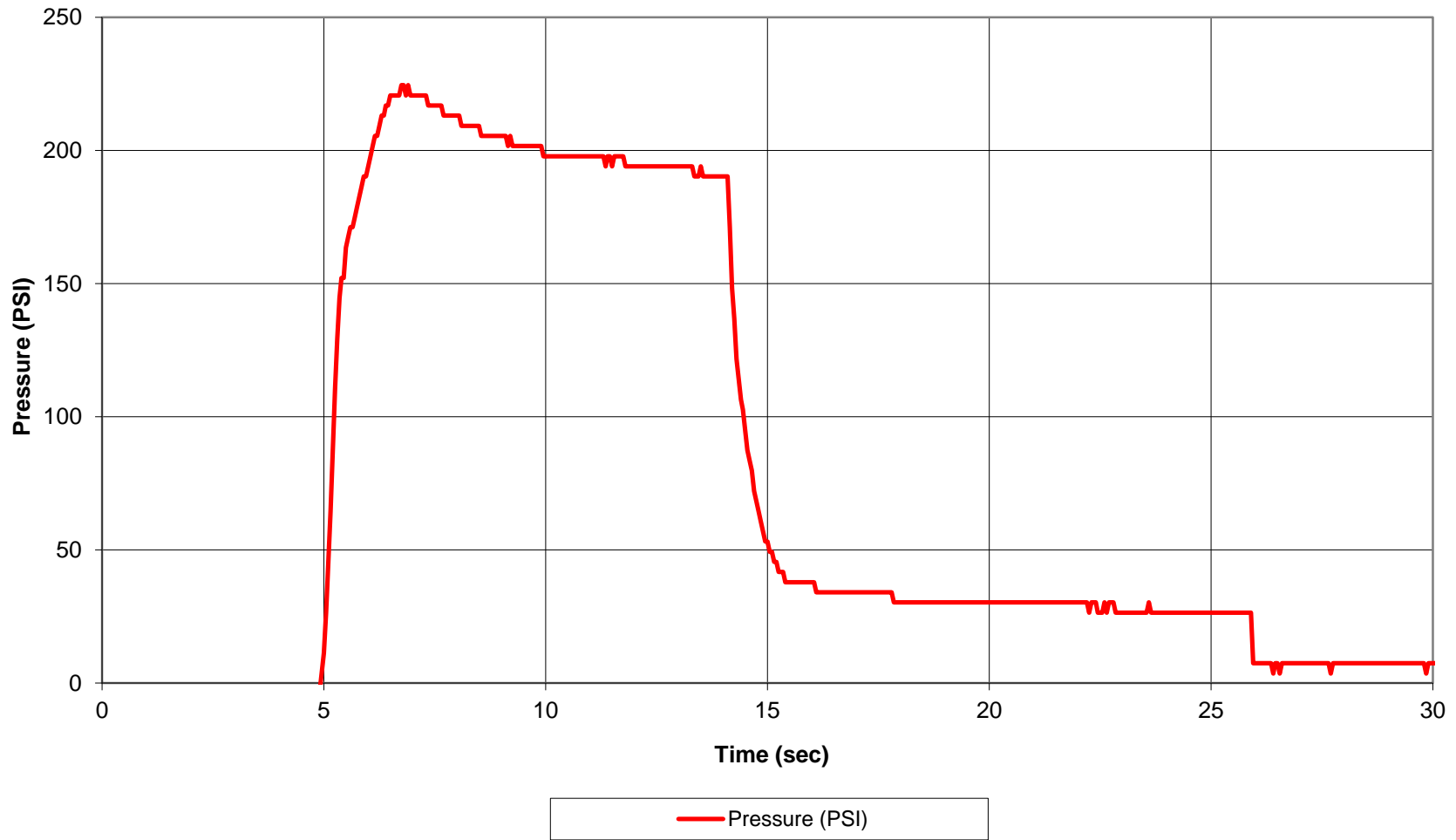
IP3-1F

**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-3
Interval 2: 31.5 - 34.5 ft. bgs.**

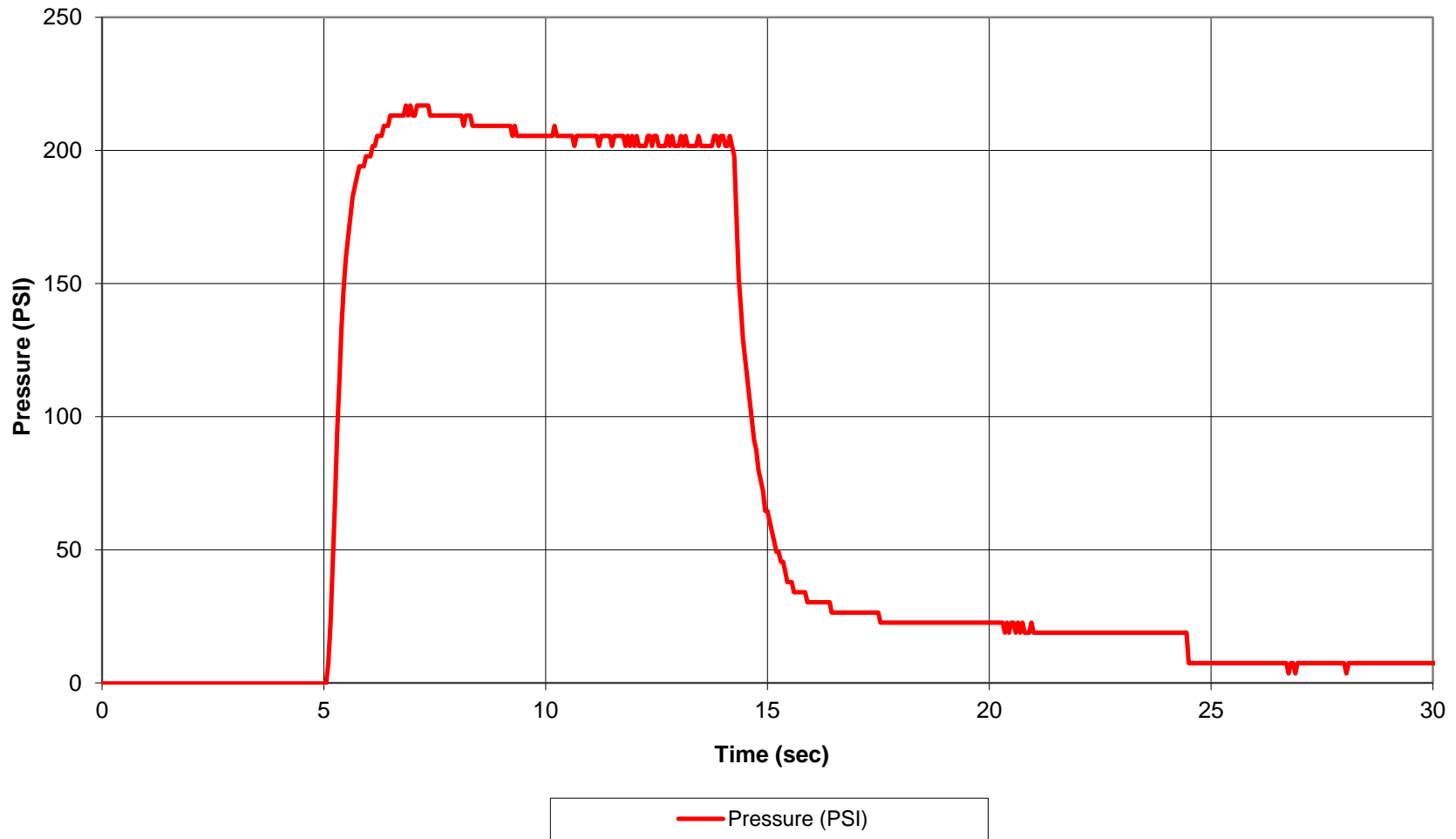


IP3-2F

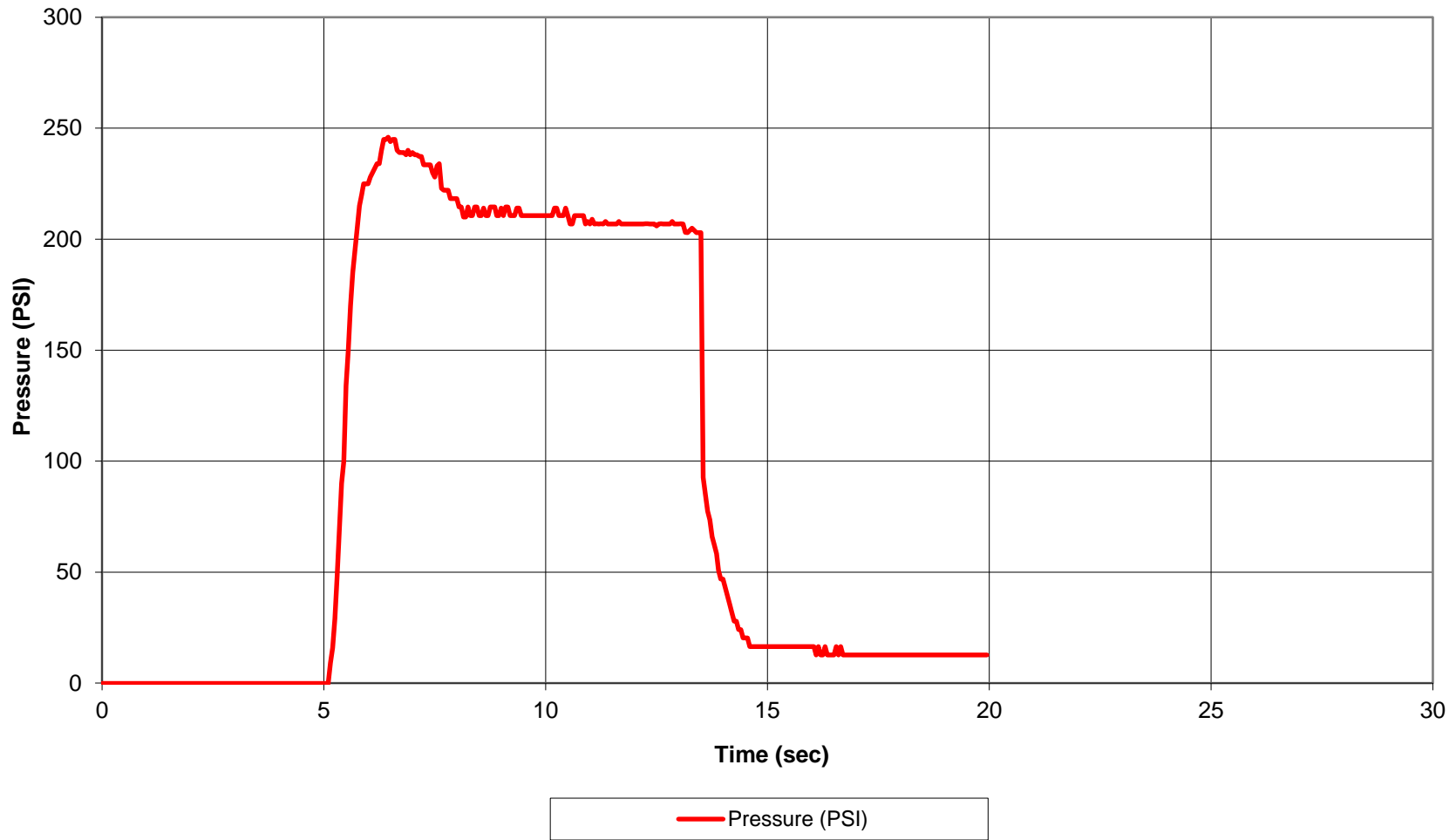
**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-3
Interval 3: 28.5 - 31.5 ft. bgs.**



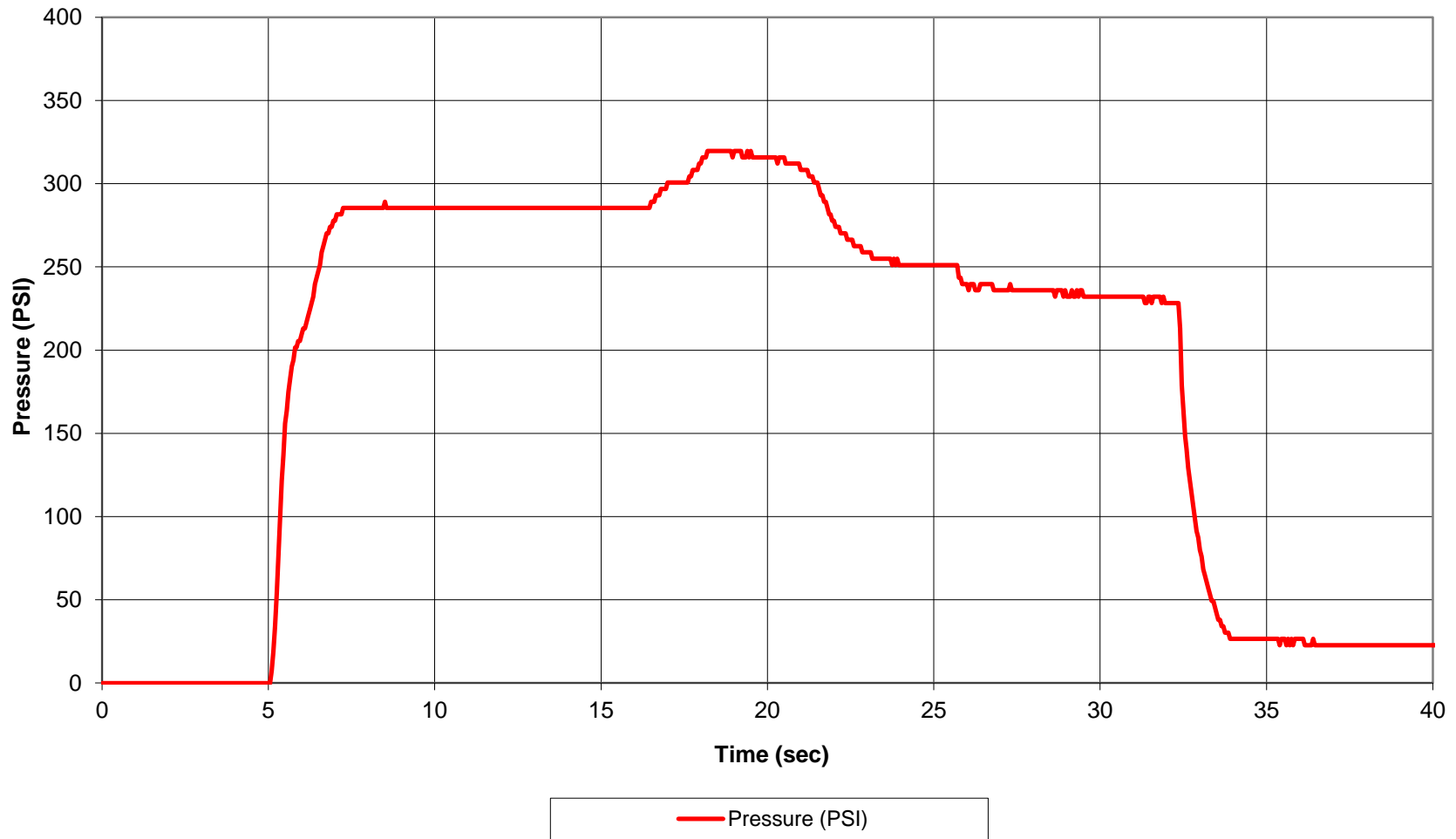
**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-3
Interval 4: 25.5 - 28.5 ft. bgs.**



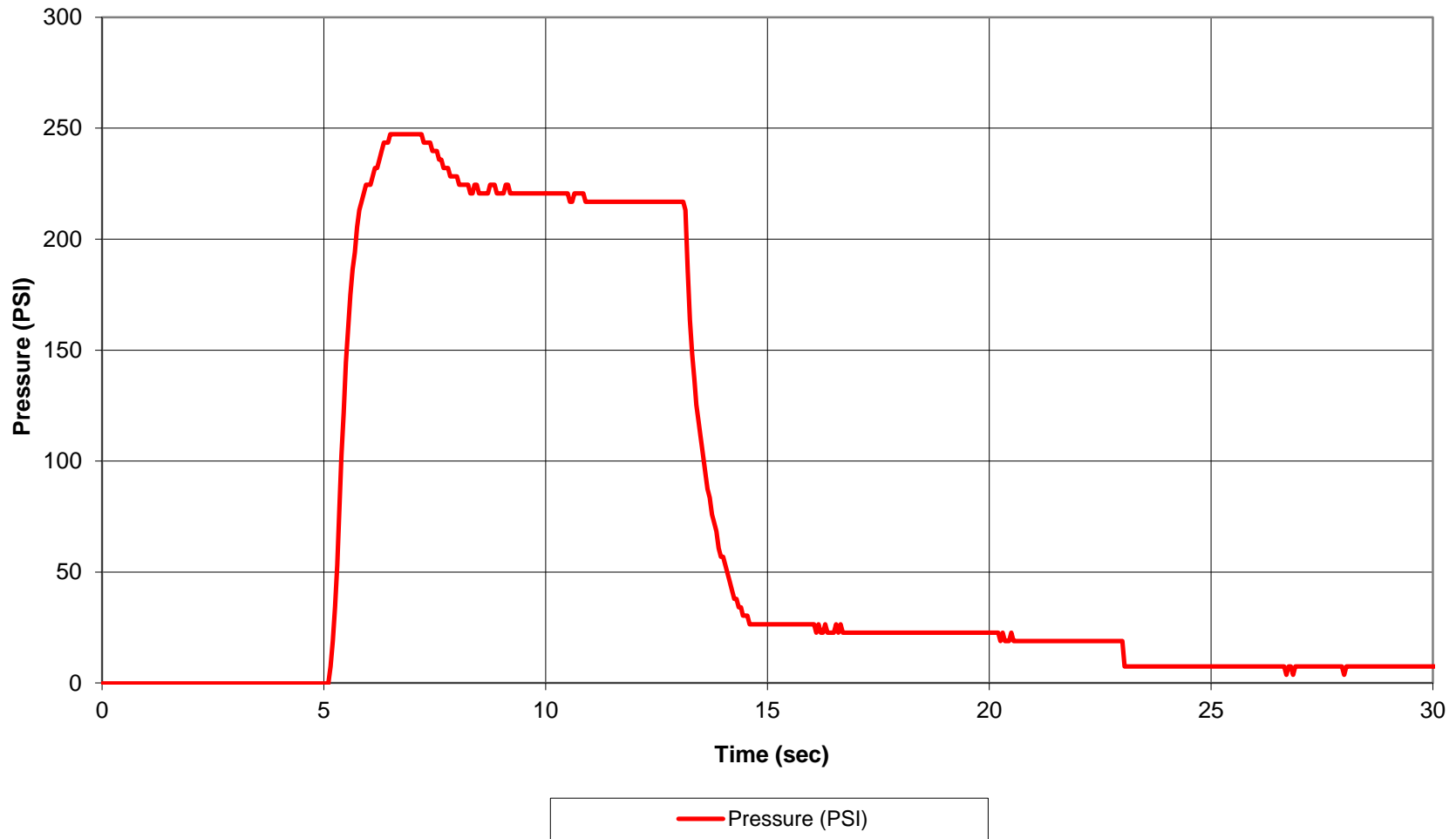
**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-4
Interval 1: 38 - 41 ft. bgs.**



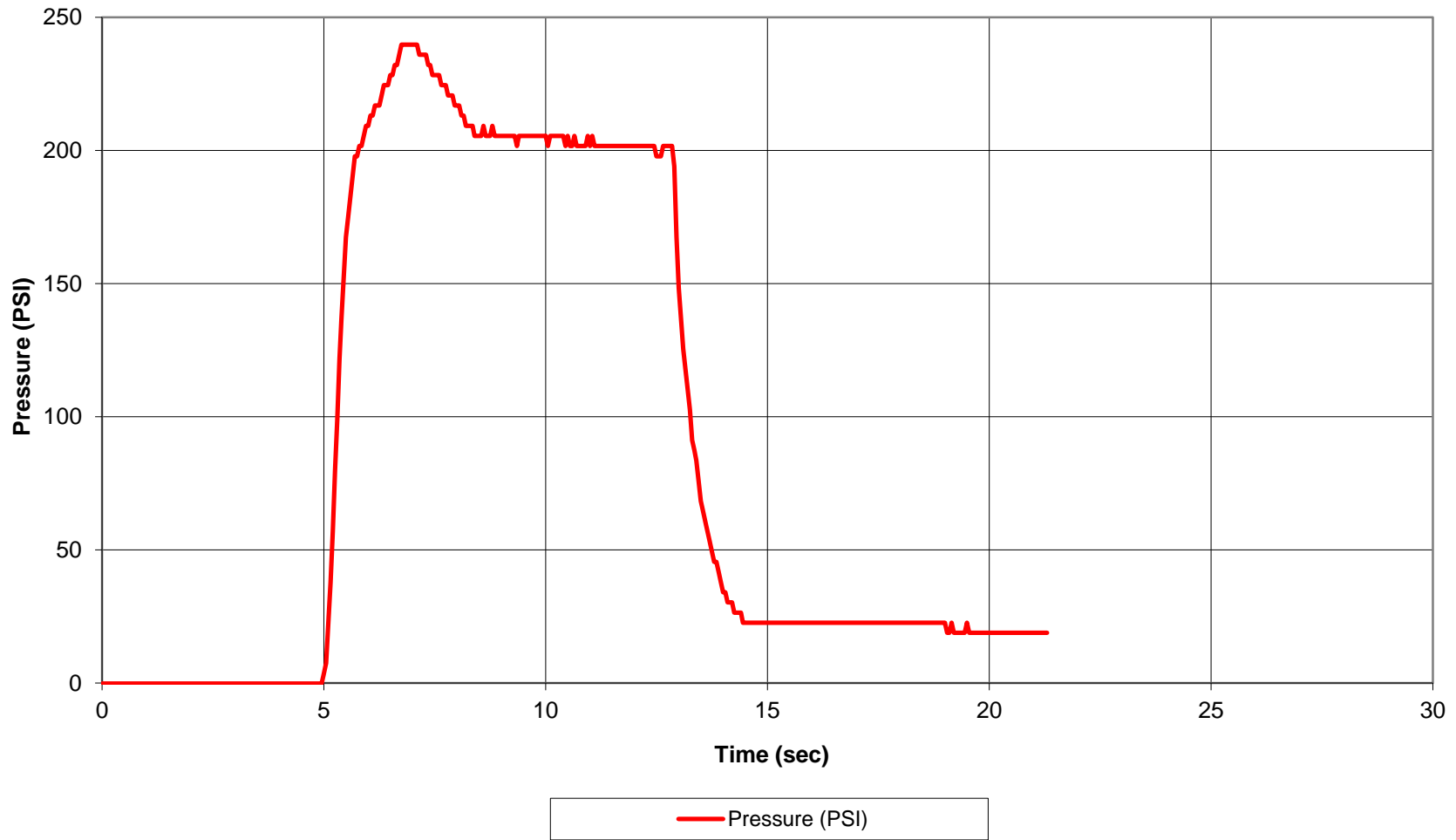
**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-4
Interval 2: 35 - 38 ft. bgs.**



**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-4
Interval 3: 32 - 35 ft. bgs.**

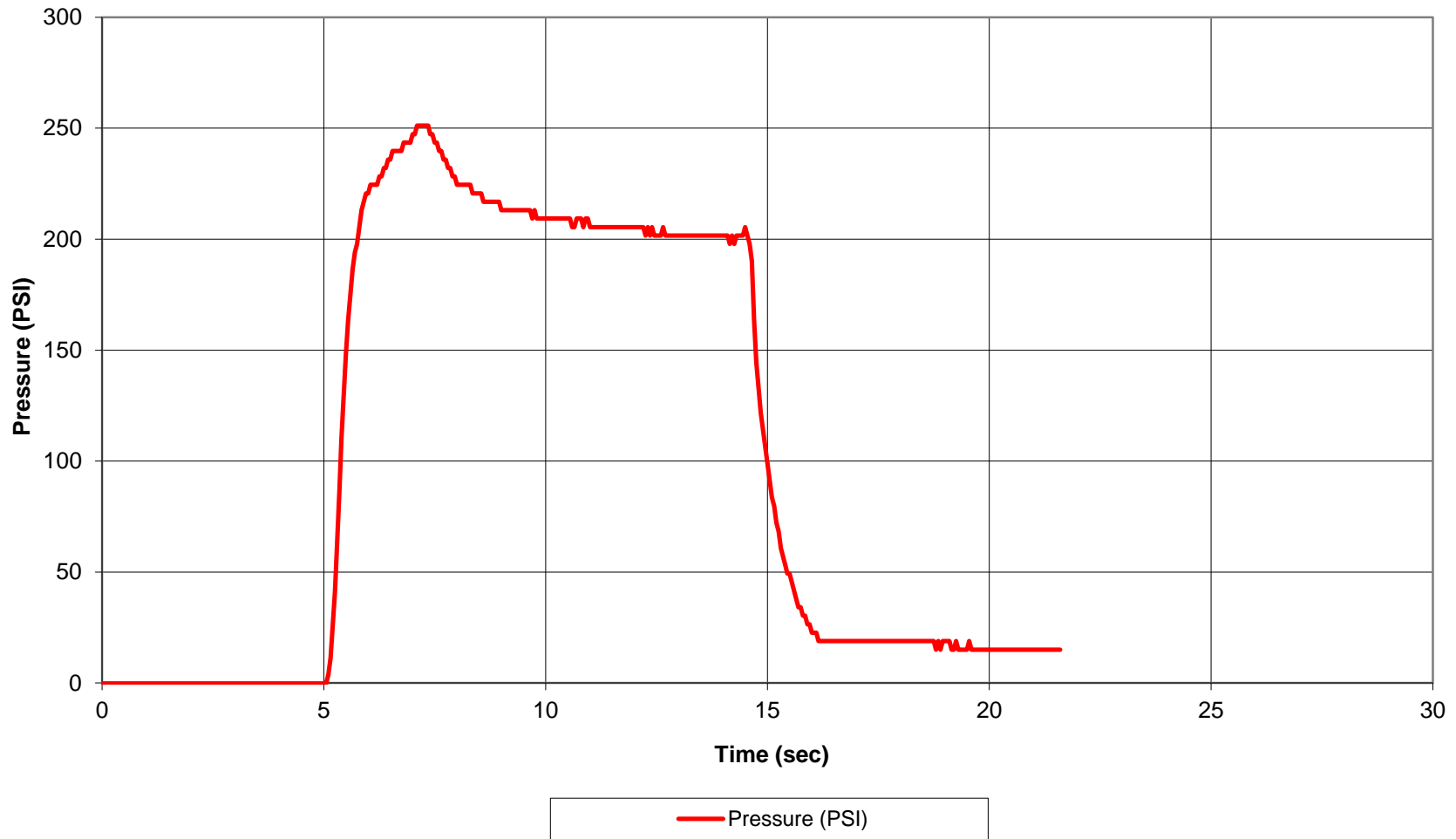


**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-4
Interval 4: 29 - 32 ft. bgs.**

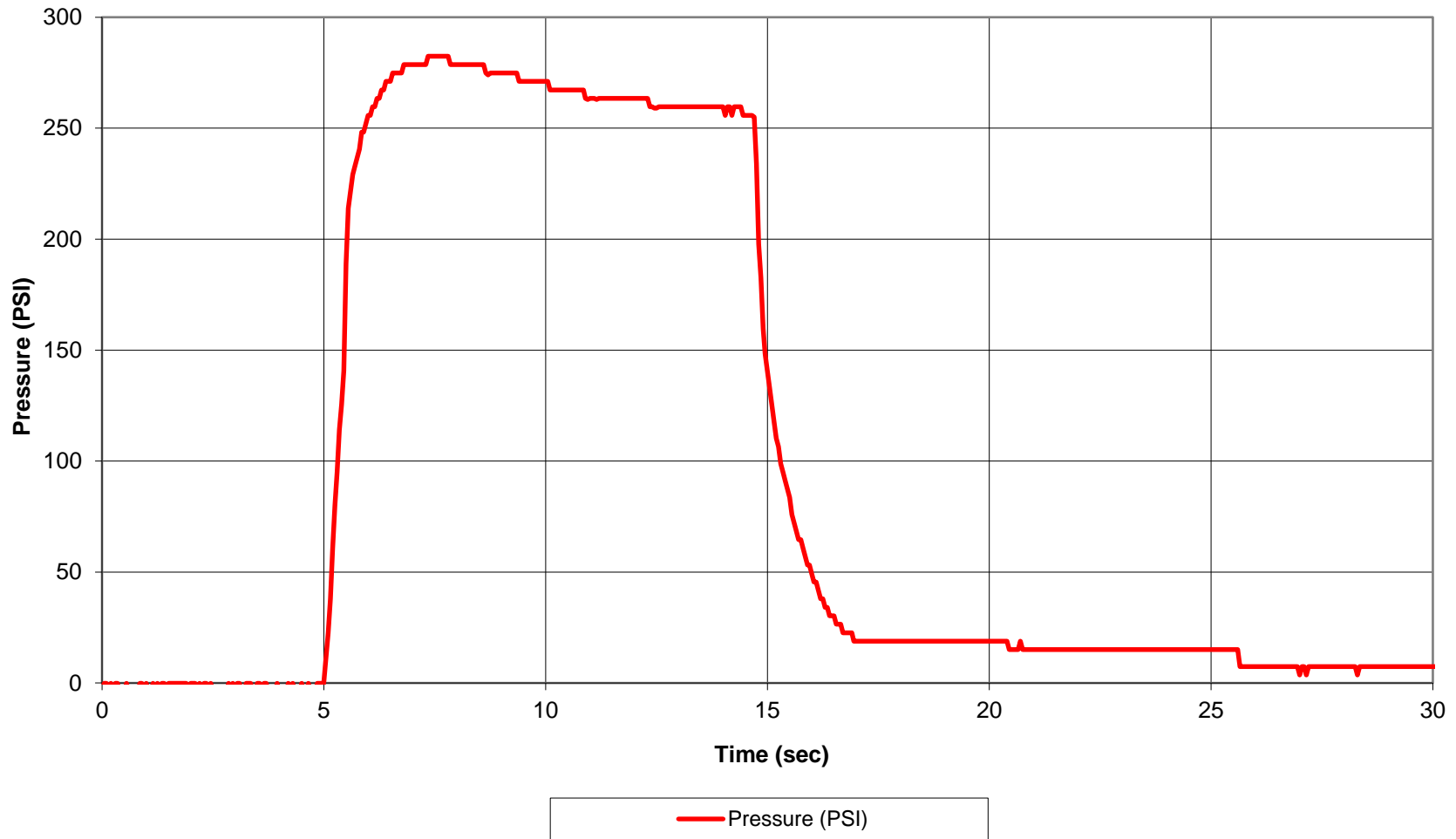


IP4-4F

**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-4
Interval 5: 26 - 29 ft. bgs.**

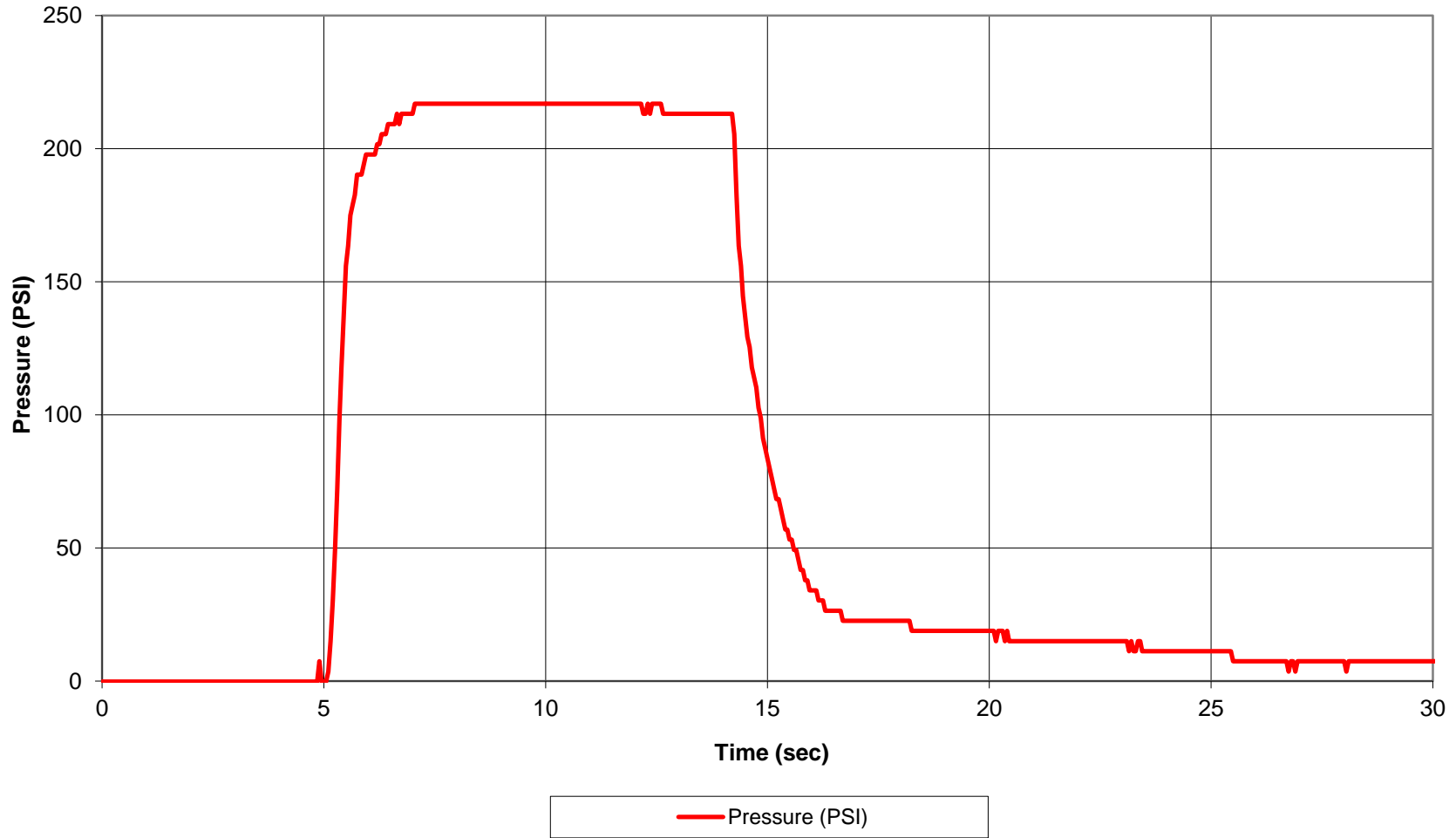


**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-5
Interval 1: 36 - 39 ft. bgs.**

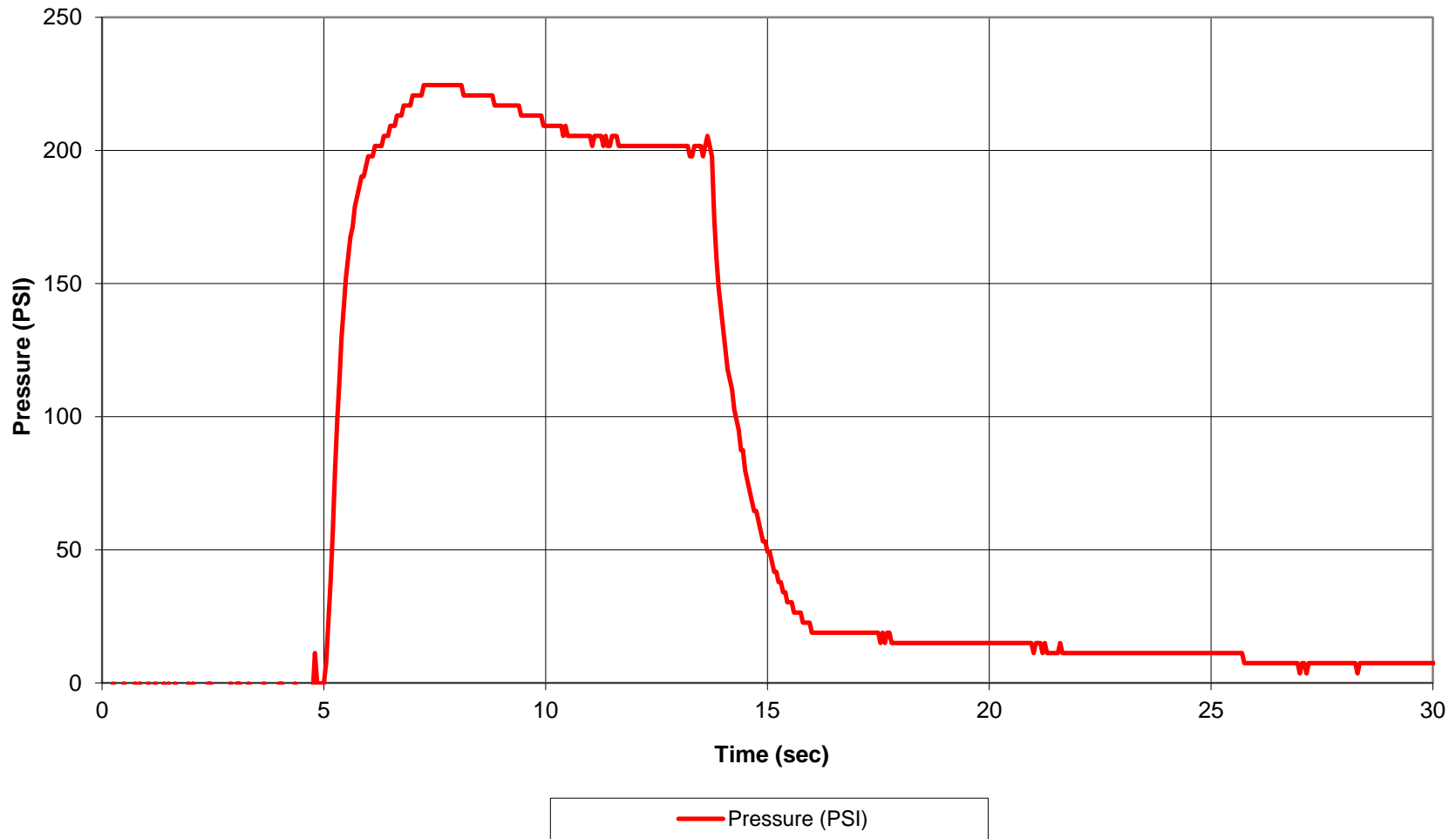


IP5-1F

**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-5
Interval 2: 33 - 36 ft. bgs.**

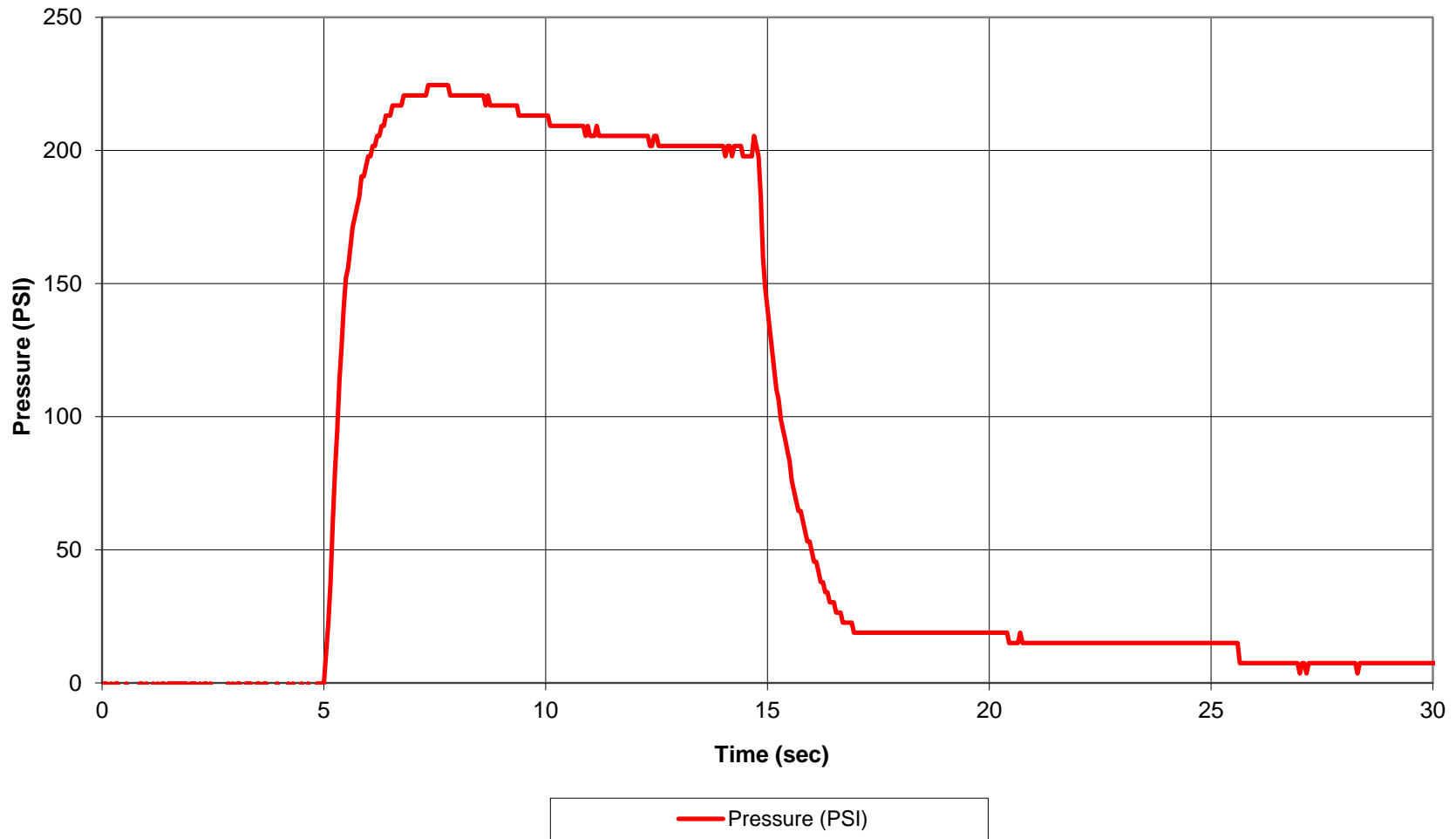


**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-5
Interval 3: 30 - 33 ft. bgs.**

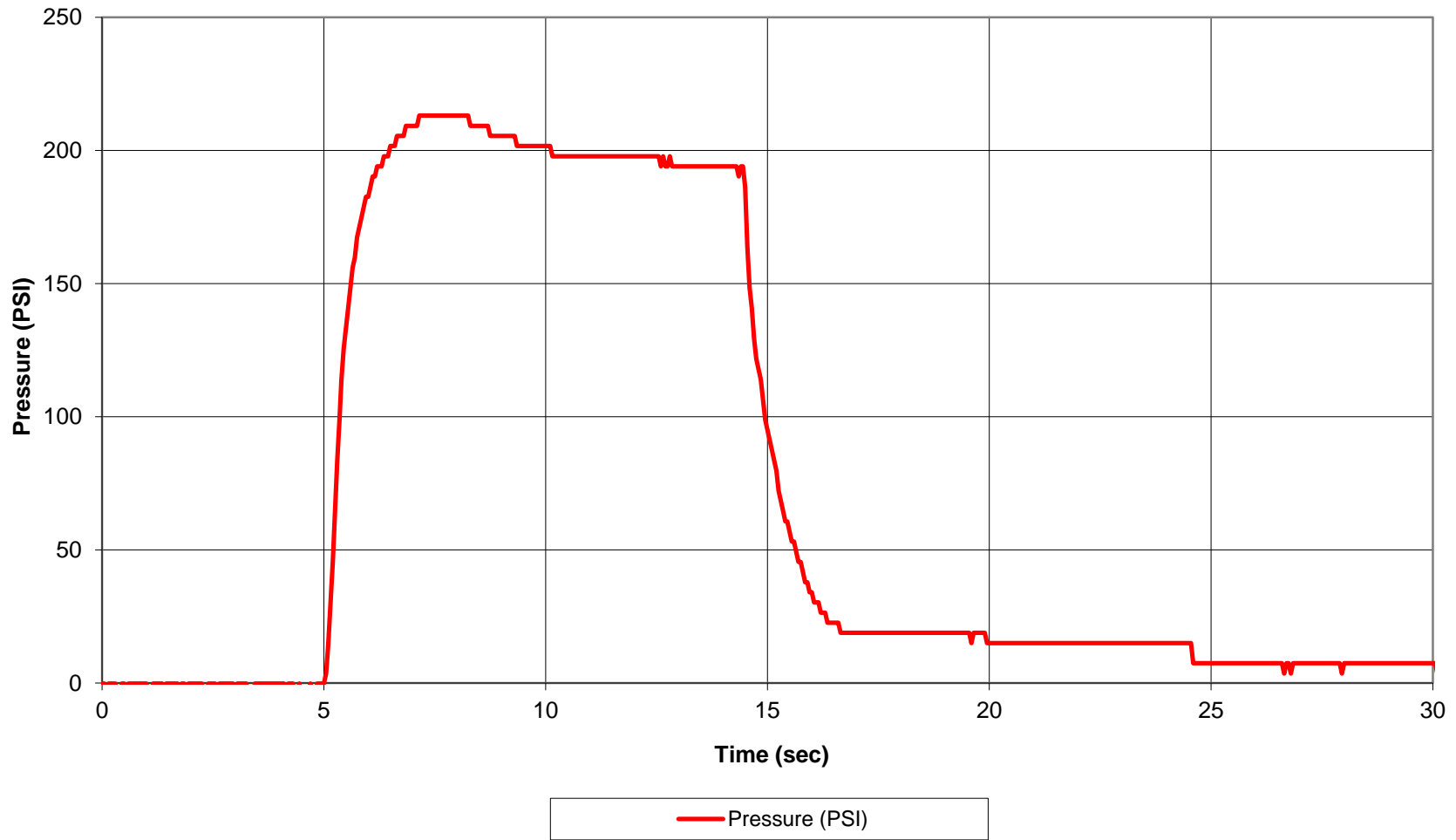


IP5-3F

**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-5
Interval 4: 28 - 31 ft. bgs.**



**Pneumatic Enhancement Event
Former Emerson Street Landfill, Rochester, NY
Injection Boring IP-5
Interval 5: 26- 29 ft. bgs.**



IP5-5F

APPENDIX B

APPENDIX C



Injecting on Blast Frac Location



Loading Iron into Injection trailer



APPENDIX 5

Maine Drilling and Blasting Reports



Job#	104-08-00807	Cust. PO#	N/A	
Date	10/3/2017	Cust. Supt. Name	Anna	
Customer Name	Labella Associates, D.P.C	Pick Tkts#	74855	N/A
Job Address	Emerson St Landfill Blast Only Labella Associates, D.P.C Rochester	N/A	N/A	N/A
		N/A	N/A	N/A

State NY Permit No. _____ Identify Hazards

Pre Shift Insp.Time (24hrs) : 12:00:00 AM site security
 Post Shift Insp.Time (24hrs): 12:00:00 AM

Blaster : Clark, Thomas G Precautions Taken:
 License #: 96-4487 clear a large area

Signature:

Weather Comments:

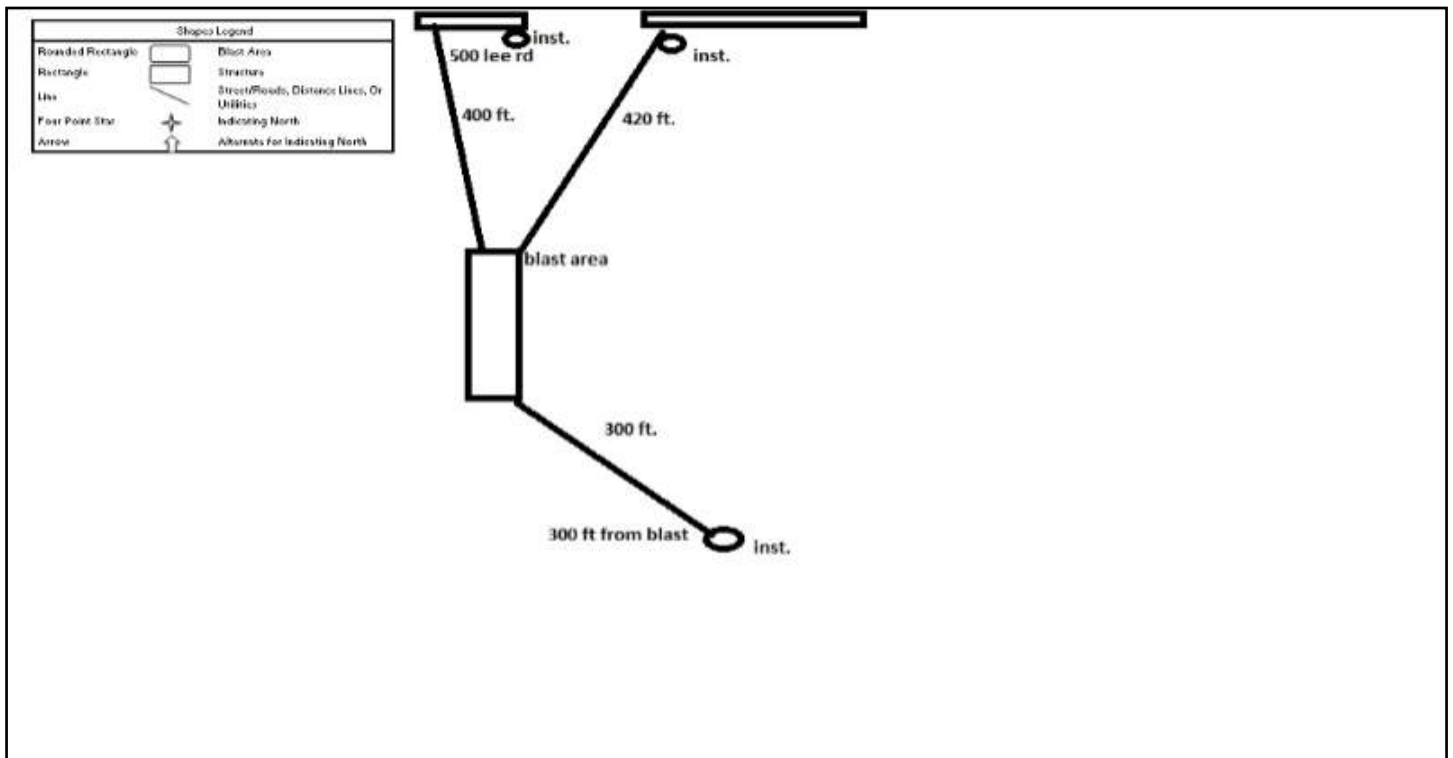
sunny

No. of Crew Members 1

Crew Members Names :

Doug Sides	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
N/A	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Seismograph Monitoring Plan (Not to Scale):



Shot # 2 Shot Time (24hrs) 14:42 Shot VideoTaped: Y

Weather

Notes: N/A

Weather Conditions: Sunny
 Temp (°F): 63-75
 Wind Direction: North-West
 Wind Spd: 3-5 MPH

Preblast

Blast Direction: South-West Max Holes/Delay: 1.00 Predicted K Factor: 55
 Blast Location: test blast Scale Dist.: 74.67
 Location of Structure: 500 lee rd. Max Weight/Delay: 28.70 Lbs Predicted PPV: 0.06
 Measurement Engineering Site Plan Dist. to Closest (Ft) Structure 400 Railroad/Highway N/A Overhead Util N/A Underground Util N/A

Pay Quantities

Fire Detail # of Hrs: N/A
 Lump Sum 140.74 LS
 N/A N/A N/A
 N/A N/A N/A

Pay Calculations Notes

4x5x38-27=28.148x5=140.74

Shot Info

Configuration

1 - Trench

Total Drill Depth(Ft)	<u>190.00</u>	Total SqFt	<u>100.00</u>	Powder Factor	<u>1.02</u> Lbs/Cyd	Total Product Weight (Lbs) :	<u>144</u>
Total Tons	<u>N/A</u>	Total Yards	<u>140.74</u>		<u>0.98</u> Cyd/Lbs	Avg Weight / Hole (Lbs):	<u>28.80</u>

Cal Method	Pattern						
# Holes	5	Cover Used/No	Blast Mats	<u>3</u>			
	AVG	Min	Max				
Drill Depth	38.00	38.00	38.00	Stone Weight	<u>N/A</u> /Cyd	Top Stemming	29.00 Min 29.00 Max
Burden(Feet)	5.00 Feet	5.00	5.00	Type of Terrian	<u>Flat</u>	Charges/Hole	3 Min 3 Max
Spacing (Feet)	4.00 Feet	4.00	4.00	Type of Rock	<u>Limestone</u>	Deck Stemming	<u>N/A</u> Min <u>N/A</u> Max
Hole Diameter	3.00	3.00	3.00	Stemming Type	<u>3/8" Crushed Stone</u>	Charge Wgt/Deck	28.70 Min 28.70 Max
OverBurden (Ft)	23.00	23.00	23.00	Height of Face	23.00	Depth of Water	1.00 Min 5.00 Max
Control Row Taped	N			Angled Holes /Face Bermed	N/N	Laser/BoreTracking	N

Total Pounds 143.50 Lbs

Type Of Initiation: **Non-Electric**

Product #	Desc	Qty	Wgt
DN260425016	DYNOMAX PRO 2-1/2 X 16 TS/EC CAP	35	143.50 Lbs
HI-EX Totals:		35	143.50 Lbs

Product #	Desc	Qty	Length
DXABZ660	NONEL EZDET 25/350 60FT ZCOMP 25/50/CS	15	
DETS DHOLE Totals:		15	

Product #	Desc	Qty	Length
DJ25025	NONEL LEADLINE 2500FT/762M 2/CS	500	
LINES Totals:		500	

Product #	Desc	Qty	Length
DY09812ME	NONEL EZTL 9MS 12/FT 90/180/CS	1	
SURF DELAY Totals:		1	

Descripton: typ.38ft

Elevation	Feet
Brench (ft)	N/A
Floor (ft)	N/A
Overburden (ft)	23
Sub Drilling(ft)	0.00
Total Depth (ft)	38.00

N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	29
DYNOMAX PRO 2-1/2 X 16 TS/EC CAP 43#/CS10/CS	9

Descripton: typ.38ft

Elevation	Feet
Brench (ft)	N/A
Floor (ft)	N/A
Overburden (ft)	23
Sub Drilling(ft)	0
Total Depth (ft)	38.00

N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
N/A	
Stemming Stones	29
DYNOMAX PRO 2-1/2 X 16 TS/EC CAP 43#/CS10/CS	9

Seismographs

Operator Name	Location of Seis	Seis #	Monitor Log Status	Actual PPV	Actual PPV Freq,	Actual db	Actual Dist. (ft)	Actual K Factor
Clark;Thomas G	500 lee rd.	ba19203	Threshold Not Met	N/A	N/A	N/A	400	N/A
Clark;Thomas G	300 ft. from blast	3618	Triggered	0.085	37	103.5	300	53



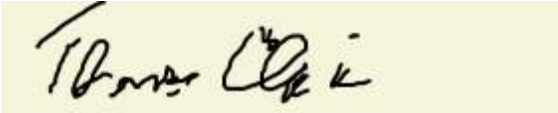
Job#	104-08-00807	Cust. PO#	N/A	
Date	10/2/2017	Cust. Supt. Name	anna	
Customer Name	Labella Associates, D.P.C	Pick Tks#	58912	N/A
Job Address	Emerson St Landfill Blast Only Labella Associates, D.P.C Rochester	N/A	N/A	N/A
		N/A	N/A	N/A

State NY Permit No. _____ Identify Hazards

Pre Shift Insp.Time (24hrs) : 12:00:00 AM site security
 Post Shift Insp.Time (24hrs): 12:00:00 AM

Blaster : Clark, Thomas G Precautions Taken:
 License #: 96-4487 clear large area

Signature:



Weather Comments:

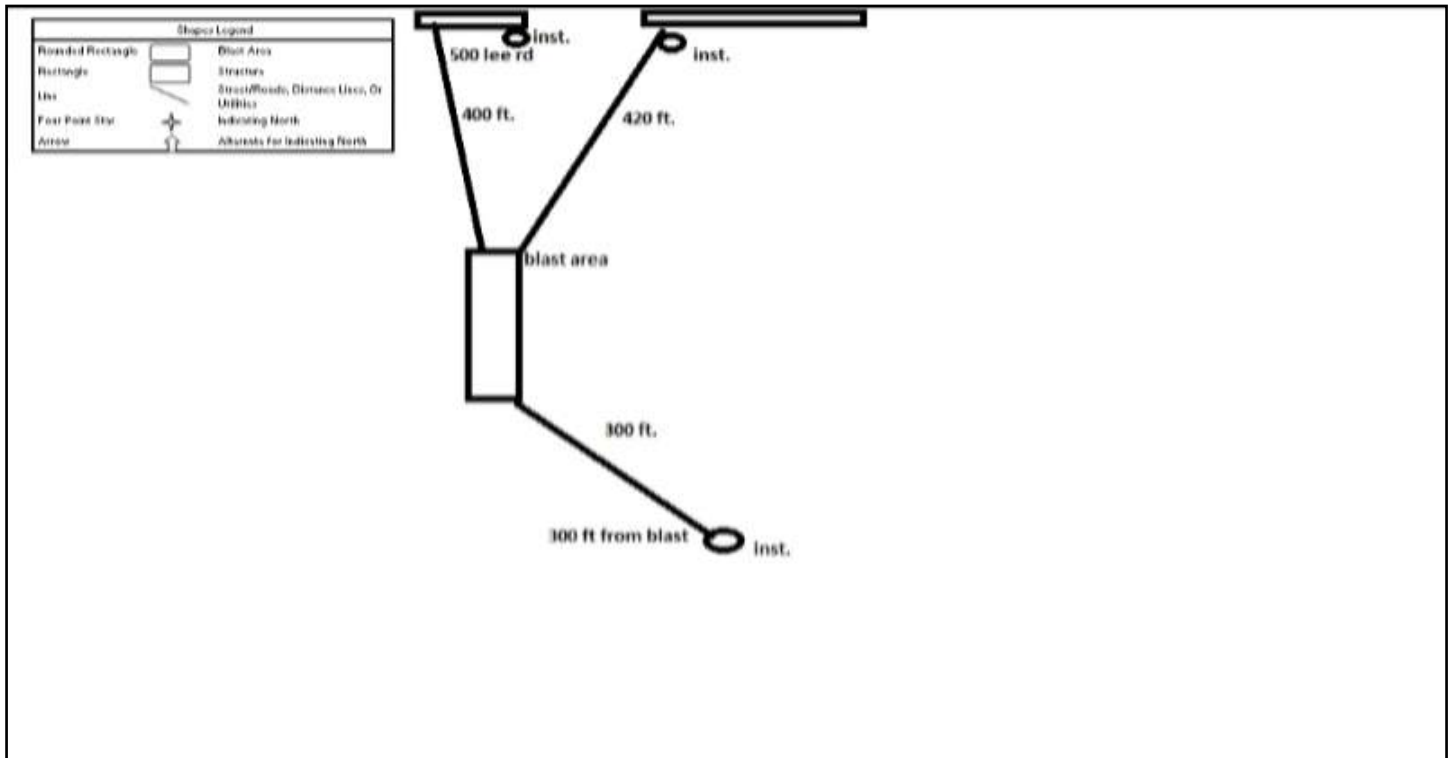
sunny

No. of Crew Members 1

Crew Members Names :

Doug Sides	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Seismograph Monitoring Plan (Not to Scale):



Shot # 1 Shot Time (24hrs) 16:21 Shot VideoTaped: Y

Weather

Notes:

N/A

Weather Conditions: Sunny
 Temp (°F): 55-65
 Wind Direction: South-West
 Wind Spd: 3-5 MPH

Preblast

Blast Direction: South-West Max Holes/Delay: 1.00 Predicted K Factor: 165
 Blast Location: test blast Scale Dist.: 80.65
 Location of Structure: 400 ft to the south west Max Weight/Delay: 24.60 Lbs Predicted PPV: 0.15
 Measurement Engineering Site Plan Dist. to Closest (Ft) Structure 400 Railroad/Highway N/A Overhead Util N/A Underground Util N/A

Pay Quantities

Fire Detail # of Hrs: N/A
 Lump Sum 140.74 LS
 N/A N/A N/A
 N/A N/A N/A

Pay Calculations Notes

5x4x38-27=28.148x5=140.74 cu yds

Shot Info

Configuration

1 - Trench

Total Drill Depth(Ft)	<u>190.00</u>	Total SqFt	<u>N/A</u>	Powder Factor	<u>N/A</u>	Lbs/Cyd	Total Product Weight (Lbs) :	<u>123</u>
Total Tons	<u>N/A</u>	Total Yards	<u>N/A</u>		<u>N/A</u>	Cyd/Lbs	Avg Weight / Hole (Lbs):	<u>24.60</u>

Cal Method	<u>Pattern</u>							
# Holes	<div style="border: 1px solid black; padding: 2px;">5</div>	Cover Used/No	<u>Blast Mats</u>	<u>3</u>				
	AVG	Min	Max					
Drill Depth	<div style="border: 1px solid black; padding: 2px;">38.00</div>	<div style="border: 1px solid black; padding: 2px;">38.00</div>	<div style="border: 1px solid black; padding: 2px;">38.00</div>	Stone Weight	<u>N/A</u> /Cyd	Top Stemming	<div style="border: 1px solid black; padding: 2px;">30.00</div> Min	<div style="border: 1px solid black; padding: 2px;">30.00</div> Max
Burden(Feet)	<div style="border: 1px solid black; padding: 2px;">5.00</div> Feet	<div style="border: 1px solid black; padding: 2px;">5.00</div>	<div style="border: 1px solid black; padding: 2px;">5.00</div>	Type of Terrian	<u>Flat</u>	Charges/Hole	<div style="border: 1px solid black; padding: 2px;">3</div> Min	<div style="border: 1px solid black; padding: 2px;">3</div> Max
Spacing (Feet)	<div style="border: 1px solid black; padding: 2px;">0.00</div> Feet	<div style="border: 1px solid black; padding: 2px;">0.00</div>	<div style="border: 1px solid black; padding: 2px;">0.00</div>	Type of Rock	<u>Limestone</u>	Deck Stemming	<u>N/A</u> Min	<u>N/A</u> Max
Hole Diameter	<div style="border: 1px solid black; padding: 2px;">3.00</div>	<div style="border: 1px solid black; padding: 2px;">3.00</div>	<div style="border: 1px solid black; padding: 2px;">3.00</div>	Stemming Type	<u>3/8" Crushed Stone</u>	Charge Wgt/Deck	<div style="border: 1px solid black; padding: 2px;">24.60</div> Min	<div style="border: 1px solid black; padding: 2px;">24.60</div> Max
OverBurden (Ft)	<div style="border: 1px solid black; padding: 2px;">23.00</div>	<div style="border: 1px solid black; padding: 2px;">23.00</div>	<div style="border: 1px solid black; padding: 2px;">23.00</div>	Height of Face	<div style="border: 1px solid black; padding: 2px;">15.00</div>	Depth of Water	<div style="border: 1px solid black; padding: 2px;">1.00</div> Min	<div style="border: 1px solid black; padding: 2px;">7.00</div> Max
Control Row Taped	<div style="border: 1px solid black; padding: 2px;">N</div>			Angled Holes /Face Bermed	<div style="border: 1px solid black; padding: 2px;">N/N</div>	Laser/BoreTracking	<div style="border: 1px solid black; padding: 2px;">N</div>	

Total Pounds 123.00 Lbs

Type Of Initiation: Non-Electric

Product #	Desc	Qty	Wgt
DN260425016	DYNOMAX PRO 2-1/2 X 16 TS/EC CAP	30.00	123.00 Lbs
HI-EX Totals:		30.00	123.00 Lbs

Product #	Desc	Qty	Length
DXABZ660	NONEL EZDET 25/350 60FT ZCOMP 25/50/CS	15.00	
DETS DHOLE Totals:		15.00	

Product #	Desc	Qty	Length
DJ01000	NONEL STARTER 1000FT/305M 4/CS 1.4B	1000.00	
LINES Totals:		1000.00	

Product #	Desc	Qty	Length
DY09812ME	NONEL EZTL 9MS 12/FT 90/180/CS	2.00	
SURF DELAY Totals:		2.00	



APPENDIX 6

Data Usability Summary Reports

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-149618

Sampled 2/26/19 and 2/27/19

VOLATILE ORGANICS

ML-2D	(480-149618-01)
ML-2S	(480-149618-02)
ML-2I	(480-149618-03)
ML-7I	(480-149618-04)
ML-7D	(480-149618-05)
GMX-MW3	(480-149618-06)
LAB-SBW-16	(480-149618-07)
LAB-SBW-15	(480-149618-08)
DUPE	(480-149618-09)
TRIP BLANK	(480-149618-10)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for nine aqueous samples and a trip blank was received from Labela Associates, P.C. on 13Mar19. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260C, addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

The positive acetone, methylene chloride and 2-butanone results from this group of samples have been qualified as estimations because they may represent laboratory artifacts.

The bromoform and dibromochloromethane results from ML-2D, ML-2S, ML-7I, LAB-SBW-16, LAB-SBW-15 and the DUPE have been qualified as estimations due to poor calibration performance.

The methyl acetate results from ML-2I, ML-7D, GMX-W3 and the DUPE; and the 2-butanone results from ML-7I and LAB-SBW-16 have been qualified as estimations due to low spiked blank (LCS) recoveries.

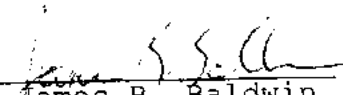
The presence of chloroethane in ML-2S and ML-2I; 1,1-dichloroethene in ML-7I, and benzene in LAB-SBW-15 could not be verified, based on the mass spectra references included in the raw data. Chloroethane, 1,1-dichloroethene and benzene should be interpreted as undetected in the affected samples.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J", "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly.

DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:  Date: 26 Nov 19
James B. Baldwin
DATAVAL Inc.

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days, unpreserved VOC samples within 7 days. The holding time for soils is 14 days. Aqueous semivolatiles organics, pesticides and PCB samples must be extracted within seven days of collection. Soils must be extracted within 14 days. The extracts must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This delivery group contained nine aqueous samples that were collected from the Emerson Street Landfill Site on 26Feb19 and 27Feb19. The entire group of samples was packaged with a trip blank and shipped to the laboratory, via FedEx, on 28Feb19. The shipment was received the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. A cooler temperature of 2.7°C was recorded at the time of receipt. Although proper sample preservation was documented in the field custody record, checks made at the time of analysis indicated that only the trip blank was properly acidified. This issue had no impact on reported data, however, because each sample was analyzed within the holding time limit for an unpreserved sample.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 01Mar19 and 02Mar19. The SW-846 holding time requirements were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Trip blanks monitor sample transport and storage activities, and method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Three method blanks and a trip blank were analyzed with this group of samples. Although each of these blanks demonstrated acceptable chromatography and was free of targeted analyte contamination, the method blanks contained traces of hexachlorobutadiene and an "unknown" Tentatively Identified Compound (TIC) eluting at 7.25 minutes. The presence of this contamination, however, had no impact on reported data because similar artifacts were not detected in this group of samples.

Although not detected in the associated blanks, acetone, methylene chloride and 2-butanone were found throughout this group of samples. When present, these concentrations have been qualified as estimations because low levels of acetone, methylene chloride, and 2-butanone frequently represent laboratory artifacts. Acetone, methylene chloride (METH CL) and 2-butanone (MEK) could not be removed from the affected sample reports because they were not found in the associated blanks.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 09Jan19. Standards of 0.4, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

Calibration check standards were analyzed on 01Mar19 (09:33), 01Mar19 (21:21) and 02Mar19, prior to the twelve-hour periods of instrument operation that included samples from this program. When compared to the initial calibration, unacceptable shifts were observed in the instrument response of bromoform (34%, 26%) on 01Mar19 (21:21) and 02Mar19, and dibromochloromethane (27%) on 01Mar19 (21:21). Based on this performance the bromoform and dibromochloromethane (BR2CLMANE) results from ML-2D, ML-2S, ML-7I, LAB-SBW-16, LAB-SBW-15 and the TRIP BLANK have been qualified as estimations.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

LAB-SBW-15 was selected for matrix spiking. The entire list of targeted analytes was added to two portions of this sample. The recoveries reported for these additions included an elevated result for dibromochloromethane (126%). This indication of positive bias, however, warrants no concern because dibromochloromethane was not detected in this group of samples.

Three spiked blanks (LCS) were also analyzed with this group of samples. These LCS samples produced unacceptable recoveries of methyl acetate (72%), 2-butanone (195%) and dibromochloromethane (126%). The methyl acetate (METH ACE) results from ML-2I, ML-7D, GMX-MW3 and the DUPE; and the 2-butanone (MEK) concentrations found in ML-7I and LAB-SBW-16 have been qualified as estimations based on this performance. Again, the positive bias indicated by the high recovery of dibromochloromethane warrants no concern.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

The presence of chloroethane in ML-2S and ML-2I; 1,1-dichloroethene in ML-7I, and benzene in LAB-SBW-15 could not be verified, based on the mass spectra references included in the raw data. Chloroethane (CLEANE), 1,1-dichloroethene (11DCE) and benzene should be interpreted as undetected in the affected samples.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

SAMPLED: February 2019

	BLANK ACETONE	BLANK METH CL	BLANK MEK	CALIBRATE BROMOFORM	CALIBRATE BR2CLIMANE	SPIKES METH ACE	SPIKE MEK	MS ID CLEANE .
ML-2D	8.7J	2.0J		2.00J	2.00J			
ML-2S	12J	4.3J		4.00J	4.00J			4.0U
ML-2I		6.2J	12J			130J		5.0U
ML-7I		4.9J	11J	5.00J	5.00J		11J	
ML-7D		5.8J				130J		
GMX-MW3	3.0J	0.55J		2.00J	2.00J	2.50J	7.6J	
LAB-SBW-16	16J	2.0J	7.6J	4.00J	4.00J			
LAB-SBW-15		5.1J				2.50J		
DUPE	5.0J	0.62J	8.3J	1.00J	1.00J			
TRIP BLANK								

SUMMARY OF QUALIFIED DATA

SAMPLED: February 2019

EMERSON STREET LANDFILL SITE

	MS ID 11DCE	MS ID BENZENE
ML-2D	(480-149618-01)	
ML-2S	(480-149618-02)	
ML-2I	(480-149618-03)	
ML-7I	(480-149618-04)	5.00
ML-7D	(480-149618-05)	
GMX-MW3	(480-149618-06)	
LAB-SBW-16	(480-149618-07)	4.30
LAB-SBW-15	(480-149618-08)	
DUPE	(480-149618-09)	
TRIP BLANK	(480-149618-10)	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.:	
Client Sample ID: <u>ML-2D</u>	Lab Sample ID: <u>480-149618-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5014.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/27/2019 13:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/02/2019 03:27</u>
Soil Aliquot Vol:	Dilution Factor: <u>2</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3.8		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	J	2.0	0.62
75-34-3	1,1-Dichloroethane	55		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND	*	20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	8.7	J	20	6.0
71-43-2	Benzene	5.5		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND	UJ	2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND	UJ	2.0	0.64
75-00-3	Chloroethane	39		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	2.6		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

Handwritten signature

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>ML-2D</u>	Lab Sample ID: <u>480-149618-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5014.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/27/2019 13:35</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/02/2019 03:27</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: <u>(low/med) Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	2.1		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.0	J	2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	2.0		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	2.1		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	1.0	J	2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	3.3		2.0	1.8
1330-20-7	Xylenes, Total	3.0	J	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	95		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo	Job No.: 480-149618-1
SDG No.:	
Client Sample ID: ML-2D	Lab Sample ID: 480-149618-1
Matrix: Water	Lab File ID: C5014.D
Analysis Method: 8260C	Date Collected: 02/27/2019 13:35
Sample wt/vol: 5 (mL)	Date Analyzed: 03/02/2019 03:27
Soil Aliquot Vol:	Dilution Factor: 2
Soil Extract Vol.:	GC Column: 2B-624 (20) ID: 0.18 (mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 461282	Units: ug/L
Number TICs Found: 1	TIC Result Total: 5.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.39	5.9	T J N	91%

JMS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Client Sample ID: ML-2S

Lab Sample ID: 480-149618-2

Matrix: Water

Lab File ID: C5015.D

Analysis Method: 8260C

Date Collected: 02/27/2019 12:50

Sample wt/vol: 5 (mL)

Date Analyzed: 03/02/2019 03:54

Soil Aliquot Vol:

Dilution Factor: 4

Soil Extract Vol.:

GC Column: ZB-624 (20) ID: 0.18 (mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 461282

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	34		20	8.4
67-64-1	Acetone	12	UJ	40	12
71-43-2	Benzene	20		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND	UJ	4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND	UJ	4.0	1.3
75-00-3	Chloroethane	4.0	UJ	4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	46		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	6.9		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	34		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo	Job No.: 480-149618-1
SDG No.:	
Client Sample ID: ML-2S	Lab Sample ID: 480-149618-2
Matrix: Water	Lab File ID: C5015.D
Analysis Method: 8260C	Date Collected: 02/27/2019 12:50
Sample wt/vol: 5(mL)	Date Analyzed: 03/02/2019 03:54
Soil Aliquot Vol:	Dilution Factor: 4
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18(mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 461282	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether-	45		4.0	0.64
108-87-2	Methylcyclohexane -	0.70	J	4.0	0.64
75-09-2	Methylene Chloride	4.3	J	4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene -	2.6	J	4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride -	36		4.0	3.6
1330-20-7	Xylenes, Total -	77		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1968-53-7	Dibromofluoromethane (Surr)	104		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>ML-2S</u>	Lab Sample ID: <u>480-149618-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5015.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/27/2019 12:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/02/2019 03:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>46i282</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>11</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
Unknown		7.79		11	T J

TJ

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-149618-3
 Matrix: Water Lab File ID: C4991.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	8.4		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	12	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	83		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	22		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	5.0	J	5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	53		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	2.0	J	5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	11		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	28		5.0	4.0

JRS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-149618-3
 Matrix: Water Lab File ID: C4991.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	41 103		13	6.5
1634-04-4	Methyl tert-butyl ether	41		5.0	0.80
108-87-2	Methylcyclohexane	2.4 J		5.0	0.80
75-09-2	Methylene Chloride	6.2 J		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	12		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	45		5.0	4.5
1330-20-7	Xylenes, Total	73		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-149618-3
 Matrix: Water Lab File ID: C4991.D
 Analysis Method: 8260C Date Collected: 02/27/2019 12:00
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 16:39
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 4 TIC Result Total: 82

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1000221-95-9	Ethene, ethyloxy-	2.33	14	T J N	86%
	Unknown	7.79	13	T J	
526-73-8	Benzene, 1,2,3-trimethyl-	8.81	41	T J N	97%
	Unknown	9.34	14	T J	

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.: _____

Client Sample ID: ML-7I

Lab Sample ID: 480-149618-4

Matrix: Water

Lab File ID: C5016.D

Analysis Method: 8260C

Date Collected: ~~02/28/2019~~ 12:15 2/27/19

Sample wt/vol: 5 (mL)

Date Analyzed: 03/02/2019 04:21 *7085*

Soil Aliquot Vol: _____

Dilution Factor: 5

Soil Extract Vol.: _____

GC Column: ZB-624 (20) ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 461282

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	84		5.0	1.6
75-34-3	1,1-Dichloroethane	220		5.0	1.9
75-35-4	1,1-Dichloroethene	5.0	1.8 U	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	11	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	20		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND	UJ	5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND	UJ	5.0	1.6
75-00-3	Chloroethane	78		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	190		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-149618-4
 Matrix: Water Lab File ID: C5016.D
 Analysis Method: 8260C Date Collected: 02/28/2019 12:15
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 04:21
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	1.4	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	4.9	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	2.9	J	5.0	1.8
108-88-3	Toluene	85		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	7.9		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	9.9		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	170		5.0	4.5
1330-20-7	Xylenes, Total	7.8	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-149618-4
 Matrix: Water Lab File ID: C5016.D
 Analysis Method: 8260C Date Collected: 02/28/2019 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 04:21
 Soil Aliquot Vol.: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 140

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
<u>354-23-4</u>	<u>Ethane, 1,2-dichloro-1,1,2-trifluoro-</u>	<u>2.40</u>	<u>140</u>	<u>T J N</u>	<u>94%</u>

TJN

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-149618-5
 Matrix: Water Lab File ID: C4993.D
 Analysis Method: 8260C Date Collected: 02/26/2019 16:55
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 17:33
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: 2B-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	15		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.8	J	5.0	1.6
75-34-3	1,1-Dichloroethane	46		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	9.4		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	200		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-149618-5
 Matrix: Water Lab File ID: C4993.D
 Analysis Method: 8260C Date Collected: 02/26/2019 16:55
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 17:33
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	J	13	6.5
1634-04-4	Methyl tert-butyl ether	1.7	J	5.0	0.80
108-87-2	Methylcyclohexane	1.1	J	5.0	0.80
75-09-2	Methylene Chloride	5.8	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>ML-7D</u>	Lab Sample ID: <u>480-149618-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4993.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 16:55</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/01/2019 17:33</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461126</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>13</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.40	13	T J N	90%

TJB

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 Lab Sample ID: 480-149618-6
 Matrix: Water Lab File ID: C4996.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	0.82	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.0	J	10	3.0
71-43-2	Benzene	10		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	80		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	220	220 E-D	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	1.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 Lab Sample ID: 480-149618-6
 Matrix: Water Lab File ID: C4996.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND <i>US</i>		2.5	1.3
1634-04-4	Methyl tert-butyl ether	58		1.0	0.16
108-87-2	Methylcyclohexane	0.18 <i>J</i>		1.0	0.16
75-09-2	Methylene Chloride	0.55 <i>J</i>		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	1.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	<i>150</i> 180 <i>J</i>		1.0	0.90
1330-20-7	Xylenes, Total	0.71 <i>J</i>		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

RB

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 Lab Sample ID: 480-149618-6
 Matrix: Water Lab File ID: C4996.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5 (mL) Date Analyzed: 03/01/2019 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 15.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
60-29-7	Ethyl ether -	2.33	13	T J N	90%
	Unknown -	4.79	2.9	T J	

JMS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.:	
Client Sample ID: <u>GMX-MW3 DL</u>	Lab Sample ID: <u>480-149618-6 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5017.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/27/2019 11:05</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/02/2019 04:48</u>
Soil Aliquot Vol:	Dilution Factor: <u>5</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	ND		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND	*	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	12		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND	*	5.0	1.6
75-00-3	Chloroethane	76		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	220		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	1.3	J	5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

See initial analysis

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.:	
Client Sample ID: <u>GMX-MW3 DL</u>	Lab Sample ID: <u>480-149618-6 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5017.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/27/2019 11:05</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/02/2019 04:48</u>
Soil Aliquot Vol:	Dilution Factor: <u>5</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MBL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	54		5.0	0.80
108-87-2	Methylcyclohexane	1.6	J	5.0	0.80
75-09-2	Methylene Chloride	4.5	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	3.1	J	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	150		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

SEE INITIAL ANALYSIS

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: GMX-MW3 DL Lab Sample ID: 480-149618-6 DL
 Matrix: Water Lab File ID: C5017.D
 Analysis Method: 8260C Date Collected: 02/27/2019 11:05
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 04:48
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	<i>see initial</i>				
<i>Analysis</i>					
<i>JB</i>					

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>LAB-SBW-16</u>	Lab Sample ID: <u>480-149618-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5018.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 15:25</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/02/2019 05:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane -	2.7		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK) -	7.6	J	20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK) -	41		10	4.2
67-64-1	Acetone -	16	J	20	6.0
71-43-2	Benzene -	4.7		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND	J	2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND	J	2.0	0.64
75-00-3	Chloroethane -	0.89	J	2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene -	6.1		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene -	2.1		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene -	5.7		2.0	1.6

JMS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>LAB-SBW-16</u>	Lab Sample ID: <u>480-149618-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5018.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 15:25</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/02/2019 05:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	26		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.0	J	2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	1.8	J	2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	2.8		2.0	1.8
1330-20-7	Xylenes, Total	16		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-16 Lab Sample ID: 480-149618-7
 Matrix: Water Lab File ID: C5018.D
 Analysis Method: 8260C Date Collected: 02/26/2019 15:25
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 05:15
 Soil Aliquot Vol.: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 8.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown -	7.79	8.4	T J	

TJ

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: LAB-SBW-15 Lab Sample ID: 480-149618-8
 Matrix: Water Lab File ID: C5019.D
 Analysis Method: 8260C Date Collected: 02/26/2019 11:05
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 05:42
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	3.7	J	4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND	*	40	5.3
591-78-6	2-Hexanone	ND		20	9.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	4.3	U	4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND	UJ	4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND	UJ	4.0	1.3
75-00-3	Chloroethane	69		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	2.7
106-93-4	1,2-Dibromoethane	ND		4.0	3.0
98-82-8	Isopropylbenzene	ND		4.0	2.9
		ND		4.0	3.2

MR

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Client Sample ID: LAB-SBW-15

Lab Sample ID: 480-149618-8

Matrix: Water

Lab File ID: C5019.D

Analysis Method: 8260C

Date Collected: 02/26/2019 11:05

Sample wt/vol: 5(mL)

Date Analyzed: 03/02/2019 05:42

Soil Aliquot Vol:

Dilution Factor: 4

Soil Extract Vol.:

GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 461282

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	1.6	J	4.0	0.64
108-87-2	Methylcyclohexane	2.6	J	4.0	0.64
75-09-2	Methylene Chloride	5.1	J	4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	2.3	J	4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	5.6	J	8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>LAB-SBW-15</u>	Lab Sample ID: <u>480-149618-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5019.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 11:05</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/02/2019 05:42</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-149618-9
 Matrix: Water Lab File ID: C4997.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	10		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	87		1.0	0.31
75-34-3	1,1-Dichloroethane	220 220 D		1.0	0.38
75-35-4	1,1-Dichloroethene	2.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	8.3 J		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	5.0 J		10	3.0
71-43-2	Benzene	20		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	74		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	190 190 D		2.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	2.2		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-149618-9
 Matrix: Water Lab File ID: C4997.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	703	2.5	1.3
1634-04-4	Methyl tert-butyl ether	1.3		1.0	0.16
108-87-2	Methylcyclohexane	0.48	J	1.0	0.16
75-09-2	Methylene Chloride	0.62	71	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	2.9		1.0	0.36
108-88-3	Toluene	85		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	8.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	9.9		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	170	180	1.0	0.90
1330-20-7	Xylenes, Total	10	D	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
186B-53-7	Dibromofluoromethane (Surr)	102		75-123

AK

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>DUPE</u>	Lab Sample ID: <u>480-149618-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4997.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/01/2019 19:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461126</u>	Units: <u>ug/L</u>
Number TICs Found: <u>4</u>	TIC Result Total: <u>149.3</u>


CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown -	1.56	2.8	T J	
930-18-7	Cyclopropane, 1,2-dimethyl-, cis-	2.12	2.8	T J N	90%
60-29-7	Ethyl ether -	2.33	3.7	T J N	90%
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.39	140	T J N	94%

MMS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE DL Lab Sample ID: 480-149618-9 DL
 Matrix: Water Lab File ID: C5020.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 06:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.9		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	57		5.0	1.6
75-34-3	1,1-Dichloroethane	220		5.0	1.9
75-35-4	1,1-Dichloroethene	2.0	J	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	8.8	J *	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	20		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND	*	5.0	1.6
75-00-3	Chloroethane	72		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	190		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

see initial analysis


FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: DUPE DL Lab Sample ID: 480-149618-9 DL
 Matrix: Water Lab File ID: C5020.D
 Analysis Method: 8260C Date Collected: 02/26/2019 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 06:08
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	0.5
1634-04-4	Methyl tert-butyl ether	1.4	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	4.6	J	5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	3.3	J	5.0	1.8
108-88-3	Toluene	84		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	7.8		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	9.6		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	170		5.0	4.5
1330-20-7	Xylenes, Total	7.0	J	10	3.3

see initial analysis
JA

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.:	
Client Sample ID: <u>DUPE DL</u>	Lab Sample ID: <u>480-149618-9 DL</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5020.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/02/2019 06:08</u>
Soil Aliquot Vol:	Dilution Factor: <u>5</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>
Number TICs Found: <u>1</u>	TIC Result Total: <u>140</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro	2.39	140	T J N	94%

see initial analysis

JTB

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-149618-10
 Matrix: Water Lab File ID: C5021.D
 Analysis Method: 8260C Date Collected: 02/26/2019 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 06:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: 2B-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	*	10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND <i>US</i>		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND <i>US</i>		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-149618-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5021.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/02/2019 06:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-149618-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5021.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/26/2019 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>03/02/2019 06:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461282</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
_____	Tentatively Identified Compound	_____	_____	_____	None

MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2D	480-149618-1	105 ✓	101 ✓	95 ✓	108 ✓
ML-2S	480-149618-2	104	103	98	109
ML-2I	480-149618-3	108	107	100	110
ML-7I	480-149618-4	103	101	101	111
ML-7D	480-149618-5	103	102	102	110
GMX-MW3	480-149618-6	108	102	96	106
GMX-MW3 DL	480-149618-6 DL	103	103	101	110
LAB-SEW-16	480-149618-7	106	106	101	111
LAB-SEW-15	480-149618-8	104	104	99	109
DUPE	480-149618-9	102	98	99	105
DUPE DL	480-149618-9 DL	105	104	99	108
TRIP BLANK	480-149618-10	104	103	99	105
	MB 480-461126/9	105	106	99	108
	MB 480-461282/9	100	101	99	111
	MB 480-461298/8	109	108	99	111
	LCS 480-461126/5	102	98	99	108
	LCS 480-461282/5	107	106	102	107
	LCS 480-461298/5	106	104	101	105
LAB-SEW-15 MS	480-149618-8 MS	104	99	101	107
LAB-SEW-15 MSD	480-149618-8 MSD	107	102	104	112

QC LIMITS

DBFM = Dibromofluoromethane (Surr)
 DCA = 1,2-Dichloroethane-d4 (Surr)
 TOL = Toluene-d8 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)

75-123
 77-120
 80-120
 73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: C4978.D

Lab ID: LCS 480-461126/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.1	100	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.9	92	76-120	
1,1,2-Trichloroethane	25.0	23.8	95	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1	112	61-148	
1,1-Dichloroethane	25.0	23.3	93	77-120	
1,1-Dichloroethene	25.0	26.0	104	66-127	
1,2,4-Trichlorobenzene	25.0	23.1	93	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.6	87	56-134	
1,2-Dichlorobenzene	25.0	23.3	93	80-124	
1,2-Dichloroethane	25.0	22.0	88	75-120	
1,2-Dichloropropane	25.0	24.4	98	76-120	
1,3-Dichlorobenzene	25.0	23.8	95	77-120	
1,4-Dichlorobenzene	25.0	23.7	95	80-120	
2-Butanone (MEK)	125	130	104	57-140	
2-Hexanone	125	133	106	65-127	
4-Methyl-2-pentanone (MIBK)	125	112	90	71-125	
Acetone	125	135	108	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	26.7	107	80-122	
Bromoform	25.0	29.8	119	61-132	
Bromomethane	25.0	27.1	108	55-144	
Carbon disulfide	25.0	21.4	85	59-134	
Carbon tetrachloride	25.0	28.7	115	72-134	
Chlorobenzene	25.0	24.1	96	80-120	
Dibromochloromethane	25.0	29.1	116	75-125	
Chloroethane	25.0	26.8	107	69-136	
Chloroform	25.0	23.2	93	73-127	
Chloromethane	25.0	27.5	110	68-124	
cis-1,2-Dichloroethene	25.0	23.3	93	74-124	
cis-1,3-Dichloropropene	25.0	27.9	112	74-124	
Cyclohexane	25.0	27.4	110	59-135	
Dichlorodifluoromethane	25.0	31.6	126	59-135	
Ethylbenzene	25.0	23.9	96	77-123	
1,2-Dibromoethane	25.0	25.5	102	77-120	
Isopropylbenzene	25.0	23.8	95	77-122	
Methyl acetate	50.0	36.0	72	74-133	*
Methyl tert-butyl ether	25.0	23.0	92	77-120	
Methylcyclohexane	25.0	27.9	112	68-134	
Methylene Chloride	25.0	22.6	90	75-124	
Styrene	25.0	24.8	99	80-120	
Tetrachloroethene	25.0	27.6	110	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: C4978.D

Lab ID: LCS 480-461126/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	24.2	97 ✓	80-122	
trans-1,2-Dichloroethene	25.0	24.3	97	73-127	
trans-1,3-Dichloropropene	25.0	26.8	107	80-120	
Trichloroethene	25.0	24.6	98 ✓	74-123	
Trichlorofluoromethane	25.0	27.9	111	62-150	
Vinyl chloride	25.0	28.7	115	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5003.D
 Lab ID: LCS 480-461282/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.3	109	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.8	99	76-120	
1,1,2-Trichloroethane	25.0	25.6	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.6	118	61-148	
1,1-Dichloroethane	25.0	25.1	101	77-120	
1,1-Dichloroethene	25.0	28.2	113	66-127	
1,2,4-Trichlorobenzene	25.0	24.1	96	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.8	99	56-134	
1,2-Dichlorobenzene	25.0	24.3	97	80-124	
1,2-Dichloroethane	25.0	23.4	94	75-120	
1,2-Dichloropropane	25.0	26.2	105	76-120	
1,3-Dichlorobenzene	25.0	23.9	96	77-120	
1,4-Dichlorobenzene	25.0	24.2	97	80-120	
2-Butanone (MEK)	125	244	195	57-140	*
2-Hexanone	125	136	108	65-127	
4-Methyl-2-pentanone (MIBK)	125	121	97	71-125	
Acetone	125	113	90	56-142	
Benzene	25.0	26.5	106	71-124	
Bromodichloromethane	25.0	29.3	117	80-122	
Bromoform	25.0	32.2	129	61-132	
Bromomethane	25.0	25.5	102	55-144	
Carbon disulfide	25.0	23.8	95	59-134	
Carbon tetrachloride	25.0	30.9	123	72-134	
Chlorobenzene	25.0	25.6	103	80-120	
Dibromochloromethane	25.0	31.5	126	75-125	*
Chloroethane	25.0	26.0	104	69-136	
Chloroform	25.0	24.5	98	73-127	
Chloromethane	25.0	23.6	95	68-124	
cis-1,2-Dichloroethene	25.0	24.7	99	74-124	
cis-1,3-Dichloropropene	25.0	30.7	123	74-124	
Cyclohexane	25.0	29.6	118	59-135	
Dichlorodifluoromethane	25.0	24.2	97	59-135	
Ethylbenzene	25.0	25.1	100	77-123	
1,2-Dibromoethane	25.0	28.2	113	77-120	
Isopropylbenzene	25.0	24.9	99	77-122	
Methyl acetate	50.0	44.8	90	74-133	
Methyl tert-butyl ether	25.0	25.4	102	77-120	
Methylcyclohexane	25.0	29.9	120	68-134	
Methylene Chloride	25.0	25.6	102	75-124	
Styrene	25.0	26.1	104	80-120	
Tetrachloroethene	25.0	30.5	122	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5003.D
 Lab ID: LCS 480-461282/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS / QC		#
			% REC	LIMITS REC	
Toluene	25.0	25.7	103	80-122	
trans-1,2-Dichloroethene	25.0	26.0	104	73-127	
trans-1,3-Dichloropropene	25.0	28.2	113	80-120	
Trichloroethene	25.0	26.9	107	74-123	
Trichlorofluoromethane	25.0	25.9	104	62-150	
Vinyl chloride	25.0	25.5	102	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: C5030.D

Lab ID: LCS 480-461298/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	28.0	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.9	96	76-120	
1,1,2-Trichloroethane	25.0	25.1	100	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.0	120	61-148	
1,1-Dichloroethane	25.0	25.7	103	77-120	
1,1-Dichloroethene	25.0	28.6	114	66-127	
1,2,4-Trichlorobenzene	25.0	24.2	97	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.6	94	56-134	
1,2-Dichlorobenzene	25.0	24.4	97	80-124	
1,2-Dichloroethane	25.0	24.6	98	75-120	
1,2-Dichloropropane	25.0	26.6	106	76-120	
1,3-Dichlorobenzene	25.0	25.0	100	77-120	
1,4-Dichlorobenzene	25.0	24.7	99	80-120	
2-Butanone (MEK)	125	134	107	57-140	
2-Hexanone	125	133	107	65-127	
4-Methyl-2-pentanone (MIBK)	125	117	94	71-125	
Acetone	125	130	104	86-142	
Benzene	25.0	28.0	112	71-124	
Bromodichloromethane	25.0	29.6	119	80-122	
Bromoform	25.0	31.0	124	61-132	
Bromomethane	25.0	28.7	115	55-144	
Carbon disulfide	25.0	25.5	102	59-134	
Carbon tetrachloride	25.0	31.7	127	72-134	
Chlorobenzene	25.0	25.4	102	80-120	
Dibromochloromethane	25.0	30.3	121	75-125	
Chloroethane	25.0	27.9	112	69-136	
Chloroform	25.0	25.4	102	73-127	
Chloromethane	25.0	28.4	114	68-124	
cis-1,2-Dichloroethene	25.0	25.6	102	74-124	
cis-1,3-Dichloropropene	25.0	30.2	121	74-124	
Cyclohexane	25.0	29.9	120	59-135	
Dichlorodifluoromethane	25.0	31.2	125	59-135	
Ethylbenzene	25.0	24.8	99	77-123	
1,2-Dibromoethane	25.0	27.8	111	77-120	
Isopropylbenzene	25.0	24.9	100	77-122	
Methyl acetate	50.0	43.2	86	74-133	
Methyl tert-butyl ether	25.0	25.0	100	77-120	
Methylcyclohexane	25.0	30.1	120	68-134	
Methylene Chloride	25.0	25.0	100	75-124	
Styrene	25.0	25.6	102	80-120	
Tetrachloroethene	25.0	28.7	115	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5030.D
 Lab ID: LCS 480-461298/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	25.7	103	80-122	
trans-1,2-Dichloroethene	25.0	27.3	109	73-127	
trans-1,3-Dichloropropene	25.0	28.5	114	80-120	
Trichloroethene	25.0	27.8	111	74-123	
Trichlorofluoromethane	25.0	28.0	112	62-150	
Vinyl chloride	25.0	29.4	117	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: C5047.D

Lab ID: 480-149618-8 MS

Client ID: LAB-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	100	ND	112	112	73-126	
1,1,2,2-Tetrachloroethane	100	ND	92.7	93	76-120	
1,1,2-Trichloroethane	100	ND	101	101	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	100	ND	124	124	61-148	
1,1-Dichloroethane	100	3.7 J	104	100	77-120	
1,1-Dichloroethene	100	ND	113	113	66-127	
1,2,4-Trichlorobenzene	100	ND	90.1	90	79-122	
1,2-Dibromo-3-Chloropropane	100	ND	86.8	87	56-134	
1,2-Dichlorobenzene	100	ND	94.3	94	80-124	
1,2-Dichloroethane	100	ND	94.9	95	75-120	
1,2-Dichloropropane	100	ND	103	103	76-120	
1,3-Dichlorobenzene	100	ND	95.5	96	77-120	
1,4-Dichlorobenzene	100	ND	94.3	94	78-124	
2-Butanone (MEK)	500	ND	495	99	57-140	
2-Hexanone	500	ND	526	105	65-127	
4-Methyl-2-pentanone (MIBK)	500	ND	471	94	71-125	
Acetone	500	ND	429	86	56-142	
Benzene	100	4.3	112	108	71-124	
Bromodichloromethane	100	ND	114	114	80-122	
Bromoform	100	ND	122	122	61-132	
Bromomethane	100	ND	105	105	55-144	
Carbon disulfide	100	ND	101	101	59-134	
Carbon tetrachloride	100	ND	125	125	72-134	
Chlorobenzene	100	ND	103	103	80-120	
Dibromochloromethane	100	ND	120	120	75-125	
Chloroethane	100	69	166	97	69-136	
Chloroform	100	ND	101	101	73-127	
Chloromethane	100	ND	98.6	99	68-124	
cis-1,2-Dichloroethene	100	ND	99.3	99	74-124	
cis-1,3-Dichloropropene	100	ND	111	111	74-124	
Cyclohexane	100	ND	118	118	59-135	
Dichlorodifluoromethane	100	ND	120	120	59-135	
Ethylbenzene	100	ND	102	102	77-123	
1,2-Dibromoethane	100	ND	111	111	77-120	
Isopropylbenzene	100	ND	97.5	98	77-122	
Methyl acetate	200	ND	164	82	74-133	
Methyl tert-butyl ether	100	1.6 J	98.5	97	77-120	
Methylcyclohexane	100	2.6 J	120	117	68-134	
Methylene Chloride	100	5.1	99.0	94	75-124	
Styrene	100	ND	103	103	80-120	
Tetrachloroethene	100	ND	116	116	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: C5047.D

Lab ID: 480-149618-9 MS

Client ID: LAB-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	100	2.3 J	106 ✓	103	80-122	
trans-1,2-Dichloroethene	100	ND	107	107	73-127	
trans-1,3-Dichloropropene	100	ND	108 ✓	108	80-120	
Trichloroethene	100	ND	108 ✓	108	74-123	
Trichlorofluoromethane	100	ND	109	109	62-150	
Vinyl chloride	100	ND	110	110	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: C5048.D

Lab ID: 480-149618-8 MSD

Client ID: LAB-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	100	108	108	4	15	73-126	
1,1,2,2-Tetrachloroethane	100	95.3	95	3	15	76-120	
1,1,2-Trichloroethane	100	104	104	3	15	76-122	
1,1,2-Trichloro-1,2,2-trifluor oethane	100	113	113	9	20	61-148	
1,1-Dichloroethane	100	99.2	96	4	20	77-120	
1,1-Dichloroethene	100	105	105	7	16	66-127	
1,2,4-Trichlorobenzene	100	90.5	90	0	20	79-122	
1,2-Dibromo-3-Chloropropane	100	92.5	92	6	15	56-134	
1,2-Dichlorobenzene	100	95.7	96	1	20	80-124	
1,2-Dichloroethane	100	94.1	94	1	20	75-120	
1,2-Dichloropropane	100	99.9	100	3	20	76-120	
1,3-Dichlorobenzene	100	94.9	95	1	20	77-120	
1,4-Dichlorobenzene	100	96.1	96	2	20	78-124	
2-Butanone (MEK)	500	507	101	2	20	57-140	
2-Hexanone	500	544	109	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	500	477	95	1	35	71-125	
Acetone	500	430	86	0	15	56-142	
Benzene	100	109	105	3	13	71-124	
Bromodichloromethane	100	112	112	2	15	80-122	
Bromoform	100	128	128	5	15	61-132	
Bromomethane	100	97.9	98	7	15	55-144	
Carbon disulfide	100	93.2	93	8	15	59-134	
Carbon tetrachloride	100	119	119	5	15	72-134	
Chlorobenzene	100	104	104	0	25	80-120	
Dibromochloromethane	100	126	126	5	15	75-125	F1
Chloroethane	100	156	87	6	15	69-136	
Chloroform	100	97.6	98	3	20	73-127	
Chloromethane	100	93.2	93	6	15	68-124	
cis-1,2-Dichloroethene	100	98.6	99	1	15	74-124	
cis-1,3-Dichloropropene	100	111	111	0	15	74-124	
Cyclohexane	100	111	111	6	20	59-135	
Dichlorodifluoromethane	100	111	111	8	20	59-135	
Ethylbenzene	100	102	102	1	15	77-123	
1,2-Dibromoethane	100	114	114	2	15	77-120	
Isopropylbenzene	100	95.8	96	2	20	77-122	
Methyl acetate	200	161	80	2	20	74-133	
Methyl tert-butyl ether	100	98.6	97	0	37	77-120	
Methylcyclohexane	100	112	110	6	20	68-134	
Methylene Chloride	100	95.6	90	4	15	75-124	
Styrene	100	101	101	2	20	80-120	
Tetrachloroethene	100	114	114	1	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C5048.D

Lab ID: 480-149618-8 MSD Client ID: LAB-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Toluene	100	106	103 ✓	0	15	80-122	
trans-1,2-Dichloroethene	100	102	102	4	20	73-127	
trans-1,3-Dichloropropene	100	112	112 ✓	4	15	80-120	
Trichloroethene	100	104	104 ✓	4	16	74-123	
Trichlorofluoromethane	100	100	100	8	20	62-150	
Vinyl chloride	100	105	105	5	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C4981.D Lab Sample ID: MB 480-461126/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973C Date Analyzed: 03/01/2019 12:04
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-461126/5	C4978.D	03/01/2019 10:27
ML-2I	480-149618-3	C4991.D	03/01/2019 16:39
ML-7D	480-149618-5	C4993.D	03/01/2019 17:33
GMX-MW3	480-149618-6	C4996.D	03/01/2019 18:52
DUPE	480-149618-9	C4997.D	03/01/2019 19:19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ME 480-461126/9
 Matrix: Water Lab File ID: C4981.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/01/2019 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	✓	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.:	
Client Sample ID:	Lab Sample ID: <u>MB 480-461126/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4981.D</u>
Analysis Method: <u>8260C</u>	Date Collected:
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/01/2019 12:04</u>
Soil Aliquot Vol:	Dilution Factor: <u>1</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461126</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	/	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-149618-1</u>
SDG No.: _____	_____
Client Sample ID: _____	Lab Sample ID: <u>MB 480-461126/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>C4981.D</u>
Analysis Method: <u>8260C</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>03/01/2019 12:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>461126</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
/	Tentatively Identified Compound	/	None	/	/

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.:
 Lab File ID: C5007.D Lab Sample ID: MB 480-461282/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973C Date Analyzed: 03/02/2019 00:12
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-461282/5	C5003.D	03/01/2019 22:24
ML-2D	480-149618-1	C5014.D	03/02/2019 03:27
ML-2S	480-149618-2	C5015.D	03/02/2019 03:54
ML-7I	480-149618-4	C5016.D	03/02/2019 04:21
GMX-MW3 DL	480-149618-6 DL	C5017.D	03/02/2019 04:48
LAB-SBW-16	480-149618-7	C5018.D	03/02/2019 05:15
LAB-SBW-15	480-149618-8	C5019.D	03/02/2019 05:42
DUPE DL	480-149618-9 DL	C5020.D	03/02/2019 06:08
TRIP BLANK	480-149618-10	C5021.D	03/02/2019 06:35

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461282/9
 Matrix: Water Lab File ID: C5007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 00:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	✓	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461282/9
 Matrix: Water Lab File ID: C5007.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 00:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461282 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	✓	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo	Job No.: 480-149618-1
SDG No.: _____	_____
Client Sample ID: _____	Lab Sample ID: MB 480-461282/9
Matrix: <u>Water</u>	Lab File ID: C5007.D
Analysis Method: 8260C	Date Collected: _____
Sample wt/vol: 5 (mL)	Date Analyzed: 03/02/2019 00:12
Soil Aliquot Vol: _____	Dilution Factor: 1
Soil Extract Vol.: _____	GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: 461282	Units: <u>ug/L</u>
Number TICs Found: 1	TIC Result Total: 0.413

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
87-68-3	Tentatively Identified Compound Hexachlorobutadiene	10.88	None 0.413	J	89%

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
SDG No.:
Lab File ID: C5033.D Lab Sample ID: MB 480-461298/8
Matrix: Water Heated Purge:(Y/N) N
Instrument ID: HP5973C Date Analyzed: 03/02/2019 15:51
GC Column: ZB-624 (20) ID: G.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-461298/5	C5030.D	03/02/2019 14:19
LAB-SBW-15 MS	480-149618-8 MS	C5047.D	03/02/2019 22:23
LAB-SBW-15 MSD	480-149618-8 MSD	C5048.D	03/02/2019 22:49

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-149618-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 480-461298/8

Matrix: Water

Lab File ID: C5033.D

Analysis Method: 8260C

Date Collected:

Sample wt/vol: 5(mL)

Date Analyzed: 03/02/2019 15:51

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 461298

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	✓	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461298/8
 Matrix: Water Lab File ID: C5033.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 03/02/2019 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	✓	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-461298/8
 Matrix: Water Lab File ID: C5033.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 03/02/2019 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 461298 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 1.055

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		
544-10-5	1-Chlorobenzene <i>unknown</i>	7.25	0.649	J	33%
87-68-3	Hexachlorobutadiene	10.88	0.406	J	89%

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C3449.D BFB Injection Date: 01/09/2019
 Instrument ID: HP5973C BFB Injection Time: 13:33
 Analysis Batch No.: 454372

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.1	✓
75	30.0 - 60.0 % of mass 95	50.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	86.7	
175	5.0 - 9.0 % of mass 174	6.1	(7.0) 1
176	95.0 - 101.0 % of mass 174	82.4	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-454372/4	C3451.D	01/09/2019	14:30
	IC 480-454372/5	C3452.D	01/09/2019	14:57
	IC 480-454372/6	C3453.D	01/09/2019	15:23
	IC 480-454372/7	C3454.D	01/09/2019	15:50
	IC 480-454372/8	C3455.D	01/09/2019	16:17
	ICIS 480-454372/9	C3456.D	01/09/2019	16:44
	IC 480-454372/10	C3457.D	01/09/2019	17:11
	IC 480-454372/11	C3458.D	01/09/2019	17:38 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C4975.D BFB Injection Date: 03/01/2019
 Instrument ID: HP5973C BFB Injection Time: 09:03
 Analysis Batch No.: 461126

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.3	✓
75	30.0 - 60.0 % of mass 95	51.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	88.0	
175	5.0 - 9.0 % of mass 174	6.2	(7.1) 1
176	95.0 - 101.0 % of mass 174	86.3	(98.0) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-461126/3	C4976.D	03/01/2019	09:33
	LCS 480-461126/5	C4978.D	03/01/2019	10:27
	MB 480-461126/9	C4981.D	03/01/2019	12:04
ML-2I	480-149618-3	C4991.D	03/01/2019	16:39
ML-7D	480-149618-5	C4993.D	03/01/2019	17:33
GMX-MW3	480-149618-6	C4996.D	03/01/2019	18:52
DOPE	480-149618-9	C4997.D	03/01/2019	19:19 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C5000.D BFB Injection Date: 03/01/2019
 Instrument ID: HP5973C BFB Injection Time: 20:47
 Analysis Batch No.: 461282

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.9	✓
75	30.0 - 60.0 % of mass 95	50.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	88.9	
175	5.0 - 9.0 % of mass 174	6.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	85.7	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-461282/3	C5001.D	03/01/2019	21:21
	LCS 480-461282/5	C5003.D	03/01/2019	22:24
	MB 480-461282/9	C5007.D	03/02/2019	00:12
ML-2D	480-149618-1	C5014.D	03/02/2019	03:27
ML-2S	480-149618-2	C5015.D	03/02/2019	03:54
ML-7I	480-149618-4	C5016.D	03/02/2019	04:21
GMX-MW3 DL	480-149618-6 DL	C5017.D	03/02/2019	04:48
LAB-SBW-16	480-149618-7	C5018.D	03/02/2019	05:15
LAB-SBW-15	480-149618-8	C5019.D	03/02/2019	05:42
DUPE DL	480-149618-9 DL	C5020.D	03/02/2019	06:08
TRIP BLANK	480-149618-10	C5021.D	03/02/2019	06:35 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Lab File ID: C5026.D BFB Injection Date: 03/02/2019
 Instrument ID: HP5973C BFB Injection Time: 12:06
 Analysis Batch No.: 461298

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	✓
75	30.0 - 60.0 % of mass 95	51.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	90.8	
175	5.0 - 9.0 % of mass 174	6.1	(6.7) 1
176	95.0 - 101.0 % of mass 174	89.0	[98.1) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-461298/9	C5029.D	03/02/2019	13:43
	LCS 480-461298/5	C5030.D	03/02/2019	14:19
	MB 480-461298/8	C5033.D	03/02/2019	15:51
LAB-SBW-15 MS	480-149618-8 MS	C5047.D	03/02/2019	22:23
LAB-SBW-15 MSD	480-149618-8 MSD	C5048.D	03/02/2019	22:49 ✓

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: ICIS 480-454372/9 Date Analyzed: 01/09/2019 16:44
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): C3456.D Heated Purge: (Y/N) N
 Calibration ID: 35737

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	196239	4.95	379825	7.26	384966	9.13	
UPPER LIMIT	392478	5.45	759650	7.76	769932	9.63	
LOWER LIMIT	98120	4.45	189913	6.76	192483	8.63	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-461126/3		217892 ✓	4.95	462467 ✓	7.25	492691 ✓	9.13
CCVIS 480-461282/3		214275	4.95	454604	7.26	482457	9.13
CCVIS 480-461298/9		214361	4.95	446331	7.25	470559	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: CCVIS 480-461126/3 Date Analyzed: 03/01/2019 09:33
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): C4976.D Heated Purge: (Y/N) N
 Calibration ID: 35740

	FB		CBN2d5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	217892	4.95	462467	7.25	492691	9.13
UPPER LIMIT	435784	5.45	924934	7.75	985382	9.63
LOWER LIMIT	108946	4.45	231234	6.75	246346	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 480-461126/5	217779	4.95	469084	7.26	495169	9.13
MB 480-461126/9	210381	4.95	472920	7.25	505325	9.13
480-149618-3	202552	4.95	440285	7.26	485969	9.13
480-149618-5	211390	4.95	428618	7.25	477629	9.13
480-149618-6	205778	4.95	448316	7.26	497644	9.13
480-149618-9	205999	4.95	439100	7.26	483069	9.13

FB = Fluorobenzene (IS)
 CBN2d5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.:
 Sample No.: CCVIS 480-461282/3 Date Analyzed: 03/01/2019 21:21
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): C5001.D Heated Purge: (Y/N) N
 Calibration ID: 35740

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	214275	4.95	454604	7.26	482457	9.13	
UPPER LIMIT	428550	5.45	909208	7.76	964914	9.63	
LOWER LIMIT	107138	4.45	227302	6.76	241229	8.63	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-461282/5	213813	4.95	464764	7.25	487313	9.13	
MB 480-461282/9	218245	4.95	470198	7.26	508598	9.13	
480-149618-1	ML-2D	207014	4.95	461985	7.26	492972	9.13
480-149618-2	ML-2S	206178	4.95	454453	7.25	489239	9.13
480-149618-4	ML-7I	205558	4.95	443819	7.26	479677	9.13
480-149618-6 DL	GMX-MW3 DL	209568	4.95	428382	7.25	490665	9.13
480-149618-7	LAB-SBW-16	199132	4.95	437444	7.25	486963	9.13
480-149618-8	LAB-SBW-15	201412	4.95	435677	7.25	494261	9.13
480-149618-9 DL	DUPE DL	203542	4.95	439725	7.26	482661	9.13
480-149618-10	TRIP BLANK	207791	4.95	443795	7.26	477576	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-149618-1
 SDG No.: _____
 Sample No.: CCVIS 480-461298/9 Date Analyzed: 03/02/2019 13:43
 Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): C5029.D Heated Purge: (Y/N) N
 Calibration ID: 35740

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	214301	4.95	446331	7.25	470559	9.13	
UPPER LIMIT	428602	5.45	892662	7.75	941118	9.63	
LOWER LIMIT	107151	4.45	223166	6.75	235280	8.63	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-461298/5		205771	4.95	459567	7.26	479535	9.13
MB 480-461298/8		204688	4.95	451459	7.26	489117	9.13
480-149618-8 MS	LAB-SBW-15 MS	202203	4.95	433432	7.25	475557	9.13
480-149618-8 MSD	LAB-SBW-15 MSD	207304	4.95	431341	7.25	473907	9.13

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-129878

Sampled 01/08/2018

VOLATILE ORGANICS

ML-7I (480-129878-1)

DUPE-2 (480-129878-2)

ML-7D (480-129878-3)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for three groundwater samples was received from Labella Associates, P.C. on 19Oct18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Method 8260, addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

The acetone and 2-butanone concentrations found in ML-7D have been qualified as estimations because they may represent laboratory artifacts.

The acetone results from this delivery group have been qualified as estimations due to poor calibration performance.

The chloromethane and vinyl chloride concentrations from ML-7I have been qualified as estimations due to poor spiked sample recoveries. The acetone concentration found in ML-7D has been qualified due to a high spiked blank recovery.

The presence of 1,1,1-trichloroethane in DUPE-2 could not be verified based on the mass spectra references included in the raw data. 1,1,1-Trichloroethane should be interpreted as undetected in this sample.

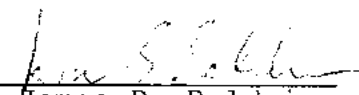
A TIC reported from ML-7I was identified as an "unknown". This identification has been changed to 1,2-dichloro-1,1,2-trifluoroethane, a more appropriate identification.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J", "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be

guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:  Date: 10/20/81
James B. Baldwin
DATAVAL Inc.

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Unpreserved VOC samples within 7 days.

This delivery group contained three groundwater samples that were collected from the Former Emerson Street Landfill Site on 08Jan18. The samples were shipped to the laboratory, via FedEx, on 09Jan18 and were received the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. A cooler temperature of 3.4°C was recorded at the time of receipt.

Although proper sample preservation was not documented in the field custody record, the pH of each VOC sample was recorded at the time of analysis to verify proper stabilization. Although an acceptable pH<2 was obtained from ML-7I and ML-7D, Dupe-2 produced a pH=7. This result, however, warrants no concern because DUPE-2 was analyzed within the holding time limitation of an unpreserved sample. Data qualifications are not required.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 12Jan18. The integrity of these samples has been previously addressed.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

One Tentatively Identified Compound (TIC), identified as 1-chlorohexane, was reported from the method blank. Although an identification of "unknown" was more appropriate, the presence of this contamination warrants no concern. A similar artifact was not detected in this group of samples.

Although not detected in the associated blank, acetone and 2-butanone were found in ML-7D. These concentrations have been qualified as estimations because low levels of acetone and 2-butanone frequently represent laboratory artifacts. Acetone and

2-butanone (MEK) could not be removed from the affected sample report because they were not found in the associated blank.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 28Dec17. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A calibration check standard was analyzed on 12Jan18, prior to the twelve-hour period of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte, with the exception of acetone, demonstrated an acceptable level of instrument stability during this check. However, an unacceptable shift of 105% was observed in the instrument response of acetone. The acetone results from this group of samples have been qualified as estimations based on this performance.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

ML-7I was selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of this sample. The recoveries reported for these additions included unacceptable results for acetone (157%, 181%), chloromethane (66%) and vinyl chloride (64%). The positive bias indicated by the high recoveries of acetone warrant no concern because acetone was not found in ML-7I. The chloromethane and vinyl chloride results from ML-7I have been qualified as estimations.

It is noted that poor measurement precision was identified in the measurements of twenty-four spiked analytes. The affected analytes have not been qualified, however, because each individual measurement fell within the laboratory's range of acceptance.

A spiked blank (LCS) was also analyzed with this group of samples. The recoveries reported for this LCS sample included a high result for acetone (199%). The acetone concentration reported from ML-7D has been qualified as an estimation based on this indication of positive bias. The remaining samples produced negative acetone results.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

The presence of 1,1,1-trichloroethane in DUPE-2 could not be verified based on the mass spectra references included in the raw data. 1,1,1-Trichloroethane (111TCA) should be interpreted as undetected in this sample. A detection limit equaling the laboratory's reporting limit should be assumed.

A TIC reported from ML-7I was identified as an "unknown". This identification has been changed to 1,2-dichloro-1,1,2-trifluoroethane, a more appropriate identification.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

SAMPLED: 01/08/2018

	BLANK ACETONE	BLANK MEK	CALIBRATE ACETONE	SPIKES CLMANE	SPIKES VINYL CL	SPK BLK ACETONE	SPECTRA ID 111TCA	SPECTRA ID	SPECTRA ID TIC
ML-7I (480-129878-1)			2000UJ	200UJ	2900J				CORRECT
DUPE-2 (480-129878-2)			2000UJ				200U		
ML-7D (480-129878-3)	43J	55J	43J			43J			

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-129878-1
 Matrix: Water Lab File ID: N6289.D
 Analysis Method: 8260C Date Collected: 01/08/2018 11:10
 Sample wt/vol: 5 (mL) Date Analyzed: 01/12/2018 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 200
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	F2	200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
79-00-5	1,1,2-Trichloroethane	ND		200	46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	310	F2	200	62
75-34-3	1,1-Dichloroethane -	1600		200	76
75-35-4	1,1-Dichloroethene	ND	F2	200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND	F2	200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
78-93-3	2-Butanone (MEK)	ND		2000	260
591-78-6	2-Hexanone	ND		1000	250
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND	F2 <i>UJ</i>	2000	600
71-43-2	Benzene	ND	F2	200	82
75-27-4	Bromodichloromethane	ND	F2	200	78
75-25-2	Bromoform	ND	F2	200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND	F2	200	38
56-23-5	Carbon tetrachloride	ND	F2	200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Dibromochloromethane	ND	F2	200	64
75-00-3	Chloroethane	ND		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND	F2 <i>UJ</i>	200	70
156-59-2	cis-1,2-Dichloroethene -	11000		200	160
10061-01-5	cis-1,3-Dichloropropene	ND	F2	200	72
110-82-7	Cyclohexane	ND	F2	200	36
75-71-8	Dichlorodifluoromethane	ND	F2	200	140
100-41-4	Ethylbenzene	ND	F2	200	150
106-93-4	1,2-Dibromoethane	ND	F2	200	150
98-82-8	Isopropylbenzene	ND	F2	200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-129878-1
 Matrix: Water Lab File ID: N6289.D
 Analysis Method: 8260C Date Collected: 01/08/2018 11:10
 Sample wt/vol: 5(mL) Date Analyzed: 01/12/2018 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 200
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		500	260
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND	F2	200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND	F2	200	72
108-88-3	Toluene -	280	F2	200	100
156-60-5	trans-1,2-Dichloroethene	ND	F2	200	180
10061-02-6	trans-1,3-Dichloropropene	ND	F2	200	74
79-01-6	Trichloroethene	ND	F2	200	92
75-69-4	Trichlorofluoromethane	ND	F2	200	180
75-01-4	Vinyl chloride -	2900	F1 J	200	180
1330-20-7	Xylenes, Total	ND	F2	400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: ML-71 Lab Sample ID: 480-129878-1
 Matrix: Water Lab File ID: N6289.D
 Analysis Method: 8260C Date Collected: 01/08/2018 11:10
 Sample wt/vol: 5(mL) Date Analyzed: 01/12/2018 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 200
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 630

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
<u>354-23-4</u>	<u>unknown Ethane, 1,2-dichloro-1,1,2-tri</u> <u>*1000</u>	<u>2.52</u>	<u>630</u>	<u>T J</u>	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-2

SDG No.: _____

Client Sample ID: Dupe 2

Lab Sample ID: 480-129878-2

Matrix: Water

Lab File ID: N6290.D

Analysis Method: 8260C

Date Collected: 01/08/2018 00:00

Sample wt/vol: 5 (mL)

Date Analyzed: 01/12/2018 14:22

Soil Aliquot Vol: _____

Dilution Factor: 200

Soil Extract Vol.: _____

GC Column: ZB-624 (20) ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 395571

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	200 100 <i>U</i>		200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
79-00-5	1,1,2-Trichloroethane	ND		200	46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	300		200	62
75-34-3	1,1-Dichloroethane	-	1900	200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
78-93-3	2-Butanone (MEK)	ND		2000	260
591-78-6	2-Hexanone	ND		1000	250
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND <i>U</i>		2000	600
71-43-2	Benzene	ND		200	82
75-27-4	Bromodichloromethane	ND		200	78
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Dibromochloromethane	ND		200	64
75-00-3	Chloroethane	ND		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	-	13000	200	160
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
110-82-7	Cyclohexane	ND		200	36
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
106-93-4	1,2-Dibromoethane	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: Dupe 2 Lab Sample ID: 480-129878-2
 Matrix: Water Lab File ID: N6290.D
 Analysis Method: 8260C Date Collected: 01/08/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 01/12/2018 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 200
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		500	260
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
100-42-5	Styrene	ND		200	150
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	330		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	ND		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	3500		200	180
1330-20-7	Xylenes, Total	ND		400	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: Dupe 2 Lab Sample ID: 480-129878-2
 Matrix: Water Lab File ID: N6290.D
 Analysis Method: 8260C Date Collected: 01/08/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/12/2018 14:22
 Soil Aliquot Vol: _____ Dilution Factor: 200
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 810

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.52	810	T J N	91%

TJS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-129878-2</u>
SDG No.:	
Client Sample ID: <u>ML-7D</u>	Lab Sample ID: <u>480-129878-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>N6291.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>01/08/2018 13:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>01/12/2018 14:49</u>
Soil Aliquot Vol:	Dilution Factor: <u>10</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>395571</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	150		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	67		10	3.1
75-34-3	1,1-Dichloroethane	560		10	3.8
75-35-4	1,1-Dichloroethene	25		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	55	JJ	100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	43	JJ	100	30
71-43-2	Benzene	33		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	120		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	570		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-129878-3
 Matrix: Water Lab File ID: N6291.D
 Analysis Method: 8260C Date Collected: 01/08/2018 13:55
 Sample wt/vol: 5(mL) Date Analyzed: 01/12/2018 14:49
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether-	4.6	J	10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene -	3.9	J	10	3.6
108-88-3	Toluene -	16		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene -	41		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride -	380		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		60-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	110		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-129878-3
 Matrix: Water Lab File ID: N6291.D
 Analysis Method: 8260C Date Collected: 01/08/2018 13:55
 Sample wt/vol: 5 (mL) Date Analyzed: 01/12/2018 14:49
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395571 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 97

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.52	57	T J N	91%
109-99-9	Furan, tetrahydro-	4.62	40	T J N	91%

TJB

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-2

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-7I	480-129878-1	99 ✓	100 ✓	97 ✓	108 ✓
Dupe 2	480-129878-2	106	100	94	108
ML-7D	480-129878-3	101	99	94	110
	MB 480-395571/7	99	97	95	109
	LCS 480-395571/5	95	93	95	105
ML-7I MS	480-129878-1 MS	101	96	94	104
ML-7I MSD	480-129878-1 MSD	102	92	93	106

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-2

SDG No.:

Matrix: Water

Level: Low

Lab File ID: N6282.D

Lab ID: LCS 480-395571/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.7	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.4	98	76-120	
1,1,2-Trichloroethane	25.0	25.1	100	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.6	127	61-148	
1,1-Dichloroethane	25.0	24.9	100	77-120	
1,1-Dichloroethene	25.0	25.9	104	66-127	
1,2,4-Trichlorobenzene	25.0	27.2	109	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.7	95	56-134	
1,2-Dichlorobenzene	25.0	26.2	105	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	26.0	104	76-120	
1,3-Dichlorobenzene	25.0	27.0	108	77-120	
1,4-Dichlorobenzene	25.0	26.0	104	80-120	
2-Butanone (MEK)	125	151	121	57-140	
2-Hexanone	125	125	100	65-127	
4-Methyl-2-pentanone (MIBK)	125	125	100	71-125	
Acetone	125	249	199	56-142	*
Benzene	25.0	25.9	104	71-124	
Bromodichloromethane	25.0	25.7	103	80-122	
Bromoform	25.0	25.8	103	61-132	
Bromomethane	25.0	25.8	103	55-144	
Carbon disulfide	25.0	24.0	96	59-134	
Carbon tetrachloride	25.0	28.7	115	72-134	
Chlorobenzene	25.0	26.7	107	80-120	
Dibromochloromethane	25.0	26.8	107	75-125	
Chloroethane	25.0	24.7	99	69-136	
Chloroform	25.0	24.8	99	73-127	
Chloromethane	25.0	20.7	83	68-124	
cis-1,2-Dichloroethene	25.0	26.5	106	74-124	
cis-1,3-Dichloropropene	25.0	25.9	104	74-124	
Cyclohexane	25.0	26.2	105	59-135	
Dichlorodifluoromethane	25.0	23.8	95	59-135	
Ethylbenzene	25.0	25.4	102	77-123	
1,2-Dibromoethane	25.0	25.6	102	77-120	
Isopropylbenzene	25.0	26.0	104	77-122	
Methyl acetate	50.0	50.1	100	74-133	
Methyl tert-butyl ether	25.0	25.8	103	77-120	
Methylcyclohexane	25.0	27.5	110	68-134	
Methylene Chloride	25.0	24.3	97	75-124	
Styrene	25.0	26.7	107	80-120	
Tetrachloroethene	25.0	28.2	113	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6282.D
 Lab ID: LCS 480-395571/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS		#
				REC	REC	
Toluene	25.0	25.1	101	✓	80-122	
trans-1,2-Dichloroethene	25.0	25.6	102		73-127	
trans-1,3-Dichloropropene	25.0	25.2	101		80-120	
Trichloroethene	25.0	25.7	103	✓	74-123	
Trichlorofluoromethane	25.0	28.1	112		62-150	
Vinyl chloride	25.0	24.1	96		65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-2

SDG No.:

Matrix: Water

Level: Low

Lab File ID: N6303.D

Lab ID: 480-129878-1 MS

Client ID: ML-7I MS

COMPOUND	SPIKE	SAMPLE	MS	MS	QC	#
	ADDED (ug/L)	CONCENTRATION (ug/L)	CONCENTRATION (ug/L)	% REC	LIMITS REC	
1,1,1-Trichloroethane	5000	ND	4270	85	73-126	
1,1,2,2-Tetrachloroethane	5000	ND	4270	85	76-120	
1,1,2-Trichloroethane	5000	ND	4580	92	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	310	4020	74	61-148	
1,1-Dichloroethane	5000	1600	5780	84	77-120	
1,1-Dichloroethene	5000	ND	3870	77	66-127	
1,2,4-Trichlorobenzene	5000	ND	4630	93	79-122	
1,2-Dibromo-3-Chloropropane	5000	ND	4060	81	56-134	
1,2-Dichlorobenzene	5000	ND	4590	92	80-124	
1,2-Dichloroethane	5000	ND	4880	98	75-120	
1,2-Dichloropropane	5000	ND	4640	93	76-120	
1,3-Dichlorobenzene	5000	ND	4440	89	77-120	
1,4-Dichlorobenzene	5000	ND	4480	90	78-124	
2-Butanone (MEK)	25000	ND	26700	107	57-140	
2-Hexanone	25000	ND	21800	87	65-127	
4-Methyl-2-pentanone (MIBK)	25000	ND	22300	89	71-125	
Acetone	25000	ND	39400	157	56-142	F1
Benzene	5000	ND	4380	88	71-124	
Bromodichloromethane	5000	ND	4690	94	80-122	
Bromoform	5000	ND	4360	87	61-132	
Bromomethane	5000	ND	4310	86	55-144	
Carbon disulfide	5000	ND	3560	71	59-134	
Carbon tetrachloride	5000	ND	4070	81	72-134	
Chlorobenzene	5000	ND	4400	88	80-120	
Dibromochloromethane	5000	ND	4600	92	75-125	
Chloroethane	5000	ND	4160	83	69-136	
Chloroform	5000	ND	4380	88	73-127	
Chloromethane	5000	ND	3280	66	68-124	F1
cis-1,2-Dichloroethene	5000	11000	15200	89	74-124	
cis-1,3-Dichloropropene	5000	ND	4590	92	74-124	
Cyclohexane	5000	ND	3340	67	59-135	
Dichlorodifluoromethane	5000	ND	2930	59	59-135	
Ethylbenzene	5000	ND	4020	80	77-123	
1,2-Dibromoethane	5000	ND	4590	92	77-120	
Isopropylbenzene	5000	ND	3970	79	77-122	
Methyl acetate	10000	ND	9520	95	74-133	
Methyl tert-butyl ether	5000	ND	4950	99	77-120	
Methylcyclohexane	5000	ND	3530	71	68-134	
Methylene Chloride	5000	ND	4850	97	75-124	
Styrene	5000	ND	4480	90	80-120	
Tetrachloroethene	5000	ND	4030	81	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6303.D
 Lab ID: 480-129878-1 MS Client ID: ML-7I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS	QC	#
				% REC	LIMITS REC	
Toluene	5000	280	4320	81	80-122	
trans-1,2-Dichloroethene	5000	ND	4280	86	73-127	
trans-1,3-Dichloropropene	5000	ND	4270	85	80-120	
Trichloroethene	5000	ND	4320	86	74-123	
Trichlorofluoromethane	5000	ND	3720	74	62-150	
Vinyl chloride	5000	2900	6120	64	65-133	F1

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-2

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: N6304.D

Lab ID: 480-129878-1 MSD

Client ID: ML-7I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	5000	5690	114	28	15	73-126	F2
1,1,2,2-Tetrachloroethane	5000	4830	97	12	15	76-120	
1,1,2-Trichloroethane	5000	5080	102	10	15	76-122	
1,1,2-Trichloro-1,2,2-trifluor oethane	5000	5850	111	37	20	61-148	F2
1,1-Dichloroethane	5000	6730	103	15	20	77-120	
1,1-Dichloroethene	5000	5390	108	33	16	66-127	F2
1,2,4-Trichlorobenzene	5000	5410	108	15	20	79-122	
1,2-Dibromo-3-Chloropropane	5000	4740	95	15	15	56-134	
1,2-Dichloroethane	5000	5450	109	17	20	80-124	
1,2-Dichloroethene	5000	5470	109	11	20	75-120	
1,2-Dichloropropane	5000	5580	112	19	20	76-120	
1,3-Dichlorobenzene	5000	5480	110	21	20	77-120	F2
1,4-Dichlorobenzene	5000	5330	107	17	20	78-124	
2-Butanone (MEK)	25000	30600	122	14	20	57-140	
2-Hexanone	25000	25300	101	15	15	65-127	
4-Methyl-2-pentanone (MIBK)	25000	25300	101	13	35	71-125	
Acetone	25000	45200	181	14	15	56-142	F1
Benzene	5000	5530	111	23	13	71-124	F2
Bromodichloromethane	5000	5550	111	17	15	80-122	F2
Bromoform	5000	5190	104	17	15	61-132	F2
Bromomethane	5000	4810	96	11	15	55-144	
Carbon disulfide	5000	4850	97	31	15	59-134	F2
Carbon tetrachloride	5000	5790	116	35	15	72-134	F2
Chlorobenzene	5000	5300	106	19	25	80-120	
Dibromochloromethane	5000	5380	108	16	15	75-125	F2
Chloroethane	5000	4550	91	9	15	69-136	
Chloroform	5000	5290	106	19	20	73-127	
Chloromethane	5000	3640	73	10	15	68-124	
cis-1,2-Dichloroethene	5000	15700	100	3	15	74-124	
cis-1,3-Dichloropropene	5000	5450	109	17	15	74-124	F2
Cyclohexane	5000	5100	102	42	20	59-135	F2
Dichlorodifluoromethane	5000	3760	75	25	20	59-135	F2
Ethylbenzene	5000	5180	104	25	15	77-123	F2
1,2-Dibromoethane	5000	5370	107	16	15	77-120	F2
Isopropylbenzene	5000	5200	104	27	20	77-122	F2
Methyl acetate	10000	10700	107	12	20	74-133	
Methyl tert-butyl ether	5000	5500	110	11	37	77-120	
Methylcyclohexane	5000	5400	108	42	20	68-134	F2
Methylene Chloride	5000	5190	104	7	15	75-124	
Styrene	5000	5420	108	19	20	80-120	
Tetrachloroethene	5000	5640	113	33	20	74-122	F2

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6304.D
 Lab ID: 480-129878-1 MSD Client ID: ML-7I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Toluene	5000	5590	106	26	15	80-122	F2
trans-1,2-Dichloroethene	5000	5340	107	22	20	73-127	F2
trans-1,3-Dichloropropene	5000	5020	100	16	15	80-120	F2
Trichloroethene	5000	5630	113	26	16	74-123	F2
Trichlorofluoromethane	5000	4750	95	24	20	62-150	F2
Vinyl chloride	5000	6990	81	13	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Lab File ID: N6284.D Lab Sample ID: MB 480-395571/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 01/12/2018 11:22
 GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-395571/5	N6282.D	01/12/2018 10:28
ML-7I	480-129878-1	N6289.D	01/12/2018 13:56
Dupe 2	480-129878-2	N6290.D	01/12/2018 14:22
ML-7D	480-129878-3	N6291.D	01/12/2018 14:49
ML-7I MS	480-129878-1 MS	N6303.D	01/12/2018 20:12
ML-7I MSD	480-129878-1 MSD	N6304.D	01/12/2018 20:39

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Lab File ID: N5943.D BFB Injection Date: 12/28/2017
 Instrument ID: HP5973N BFB Injection Time: 14:51
 Analysis Batch No.: 393925

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.7	✓
75	30.0 - 60.0 % of mass 95	50.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.2) 1
176	95.0 - 101.0 % of mass 174	87.3	(98.7) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-393925/6	N5945.D	12/28/2017	15:45
	IC 480-393925/7	N5946.D	12/28/2017	16:12
	IC 480-393925/8	N5947.D	12/28/2017	16:40
	IC 480-393925/9	N5948.D	12/28/2017	17:07
	IC 480-393925/10	N5949.D	12/28/2017	17:34
	ICIS 480-393925/11	N5950.D	12/28/2017	18:01
	IC 480-393925/12	N5951.D	12/28/2017	18:28
	IC 480-393925/13	N5952.D	12/28/2017	18:55 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Lab File ID: N6279.D BFB Injection Date: 01/12/2018
 Instrument ID: HP5973N BFB Injection Time: 09:06
 Analysis Batch No.: 395571

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	28.3 ✓
75	30.0 - 60.0 % of mass 95	48.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.3 (0.3) 1
174	50.0 - 120.00 % of mass 95	98.5
175	5.0 - 9.0 % of mass 174	8.7 (8.8) 1
176	95.0 - 101.0 % of mass 174	94.6 (96.0) 1
177	5.0 - 9.0 % of mass 176	6.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-395571/3	N6280.D	01/12/2018	09:34
	LCS 480-395571/5	N6282.D	01/12/2018	10:28
	MB 480-395571/7	N6284.D	01/12/2018	11:22
ML-7I	480-129878-1	N6289.D	01/12/2018	13:56
Dupe 2	480-129878-2	N6290.D	01/12/2018	14:22
ML-7D	480-129878-3	N6291.D	01/12/2018	14:49
ML-7I MS	480-129878-1 MS	N6303.D	01/12/2018	20:12
ML-7I MSD	480-129878-1 MSD	N6304.D	01/12/2018	20:39 ✓

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Sample No.: ICIS 480-393925/11 Date Analyzed: 12/28/2017 18:01
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): N5950.D Heated Purge: (Y/N) N
 Calibration ID: 32489

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	169856	5.41	662244	8.39	345492	10.79
UPPER LIMIT	339712	5.91	1324488	8.89	690984	11.28
LOWER LIMIT	84928	4.91	331122	7.89	172746	10.28
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-395571/3	172284	5.41	693258	8.39	379257	10.79

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-2
 SDG No.: _____
 Sample No.: CCVIS 480-395571/3 Date Analyzed: 01/12/2018 09:34
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N6280.D Heated Purge: (Y/N) N
 Calibration ID: 32491

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	172284	5.41	693258	8.39	379257	10.79
UPPER LIMIT	344568	5.91	1386516	8.89	758514	11.29
LOWER LIMIT	86142	4.91	346629	7.89	189629	10.29
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 480-395571/5	173311	5.41	691499	8.39	377631	10.79
MB 480-395571/7	165616	5.41	668615	8.39	369404	10.79
480-129878-1	ML-7I	164359	5.41	667101	8.39	367467
480-129878-2	Dupe 2	160199	5.41	661874	8.39	350005
480-129878-3	ML-7D	162384	5.41	663790	8.39	350055
480-129878-1 MS	ML-7I MS	162305	5.41	664096	8.39	364168
480-129878-1 MSD	ML-7I MSD	168252	5.41	693311	8.39	372729

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-131737

Sampled 02/21/2018

VOLATILE ORGANICS, NITRATE, NITRATE
ETHANE, ETHENE, SULFIDE, FERROUS IRON

ML-2S	(480-131737-1)
ML-2I	(480-131737-2)
ML-2D	(480-131737-3)
ML-7I	(480-131737-4)
ML-7D	(480-131737-5)
LAB-SBW-15	(480-131737-6)
DUPLICATE	(480-131737-7)
LBA-SBW-16	(480-131737-8)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for eight groundwater samples was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Methods, addressed determinations of volatile organics, nitrate, nitrite, ethane, ethene, sulfide and ferrous iron. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) and the cited methods were used as a technical reference.

The methylene chloride and 2-butanone concentrations found in this group of samples have been qualified as estimations because they may represent laboratory artifacts.

The 2-butanone, 2-hexanone, acetone and methyl acetate results from LBA-SBW-16 have been qualified as estimations due to low spiked sample recoveries.

The methyl acetate results from ML-2I and LBA-SBW-16, and the 2-butanone and 2-hexanone results from ML-2I have been qualified as estimations due to low spiked blank recoveries.

The nitrite and nitrate results from this delivery group have been qualified as estimations because their holding time limitation was exceeded by one day.

The ferrous iron results from this group of samples have been rejected because their holding time limitation was grossly exceeded.

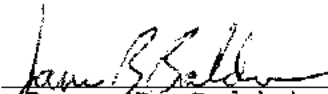
CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be

guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL Inc.

Date: 19 Oct 18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Unpreserved VOC samples within 7 days. Nitrate and nitrite, must be determined within one day, sulfide within seven days, and ferrous iron analyses should be performed in the field at the time of sample collection.

This delivery group contained eight groundwater samples that were collected from the Former Emerson Street Landfill Site on 21Feb18. The samples were shipped to the laboratory, via FedEx, on 23Feb18 and were received the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. A cooler temperature of 4.5°C was recorded at the time of receipt.

Although proper sample preservation was documented in the field custody record, a pH=7 was obtained from the VOC samples of ML-2S, ML-2D and LBA-SBW-16. ML-7D produced a pH=4. This performance, however, warrants no concern because each VOC, ethane and ethene sample was analyzed within the holding time limitation of unpreserved samples.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics between 25Feb18 and 28Feb18. The integrity of these samples has been previously addressed.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Four method blanks were analyzed with this group of samples. Each of these blanks demonstrated acceptable chromatography and was free of targeted analyte contamination.

Although not detected in the associated blanks, methylene chloride was found in ML-7I, and 2-butanone was detected in ML-7D, LBA-SBW-15 and the DUPE. These concentrations have been qualified as estimations because low levels of methylene chloride and 2-butanone frequently represent laboratory artifacts. Methylene chloride (METH CL) and 2-butanone (MEX) could not be removed from the affected sample reports because they were not found in the associated blanks.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations for VOC were performed on 09Jan18 and 31Jan18. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. With the exception of trans-1,4-dichloro-2-butene, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during both of these calibrations.

Although trans-1,4-dichloro-2-butene standards produced the required levels of instrument response, they demonstrated poor linearity. Although errors might be expected in measurements of trans-1,4-dichloro-2-butene, it may be assumed that this analyte would be detected if present in samples. Because trans-1,4-dichloro-2-butene was not detected in this group of samples, data qualifications are not required.

Calibration check standards were analyzed on 25Feb18, 26Feb18 and 28Feb18, prior to the twelve-hour periods of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability during each of these checks.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

LBA-SBW-15 and LBA-SBW-16 were selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of these samples. The recoveries reported from LBA-SBW-16 included low results for 2-butanone (67%,66%), 2-hexanone (69%,68%), acetone (68%,68%) and methyl acetate (66%,66). The 2-butanone, 2-hexanone, acetone and methyl acetate results from LBA-SBW-16 have been qualified as estimations based on these indications of negative bias. The recoveries reported for the remaining analytes demonstrated acceptable levels of measurement precision and accuracy.

Four spiked blanks (LCS) were also analyzed with this group of samples. The recoveries reported for these LCS samples included low methyl acetate (72%,66%), 2-butanone (64%) and 2-hexanone (68%) results. The methyl acetate results from ML-2I and LBA-SBW-16, and the 2-butanone and 2-hexanone results from ML-2I have been qualified as estimations based on these indications of negative bias.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the

identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

ETHANE AND ETHENE

Ethane and ethene were also determined by gas chromatography. These analyses were completed within 6 days of collection and were associated with a clean blank and spiked blanks that demonstrated acceptable levels of measurement precision and accuracy. The ethane and ethene results from this delivery group should be considered completely usable and without qualifications as presented.

WET CHEMISTRY

Nitrate, nitrite, sulfide and ferrous iron were determined by wet chemistry methods. Nitrate and nitrite analyses were performed on 23Feb18. At this point the 24-hour holding time limitation for nitrite and nitrate was exceeded by 1 day. The nitrate and nitrite results from this project have been qualified as estimations because the sample holding time limitation was exceeded.

Nitrate (NO₃) concentrations are obtained by analyzing each sample for a total concentration of nitrate plus nitrite (NO₂+NO₃) and subtracting the result of a nitrite (NO₂) determination. Although QC results were not reported for nitrate and nitrite, acceptable calibration check standards, LCS recoveries, and spiked sample and sample duplicate results were found in the raw data by this reviewer. Additional data qualifications are not required.

Sulfide analyses were performed on 26Feb18. These results were associated with acceptable calibration check standard, and LCS recoveries. Sulfide spikes to ML-2S and duplicate analyses of LBA-SBW-15 demonstrated acceptable levels of measurement precision and accuracy.

This group of samples was analyzed for ferrous iron on 06Mar18. These results have been rejected because the analysis should be performed at the time of sample collection and these samples were held for 13 days prior to analysis.

SUMMARY OF QUALIFIED DATA

SAMPLED: 02/21/2018

EMERSON STREET LANDFILL SITE

	BLANK METH CL	BLANK MEK	SPIKES MS1*	SPK BLK METH ACE	SPK BLK MEK	SPK BLK 2-HEXANONE	HOLD TIME FERROUS
ML-2S	(480-131737-1)						REJECT
ML-2I	(480-131737-2)						REJECT
ML-2D	(480-131737-3)						REJECT
ML-7I	(480-131737-4)						REJECT
ML-7D	(480-131737-5)						REJECT
LAB-SBW-15	(480-131737-6)	61J		1000J	4000J	2000J	REJECT
DUPLICATE	(480-131737-7)	15J					REJECT
LBA-SBW-16	(480-131737-8)	16J	ALL UJ	250J			REJECT

MS1* = 2-butanone, 2-hexanone, acetone, methyl acetate

	HOLD TIME NITRATE	HOLD TIME NITRITE
ML-2S	0.0500J	0.0500J
ML-2I	0.031J	0.0500J
ML-2D	0.0500J	0.0500J
ML-7I	0.0500J	0.0500J
ML-7D	0.038J	0.0500J
LAB-SBW-15	0.0500J	0.0500J
DUPLICATE	0.0500J	0.0500J
LBA-SBW-16	0.0500J	0.0500J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: S7864.D
 Analysis Method: 8260C Date Collected: 02/21/2018 13:05
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	24		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	ND		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	17		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	54		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: S7864.D
 Analysis Method: 8260C Date Collected: 02/21/2018 13:05
 Sample wt/vol: 5(mL) Date Analyzed: 02/25/2018 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	56		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	430		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

TK

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: S7864.D
 Analysis Method: 8260C Date Collected: 02/21/2018 13:05
 Sample wt/vol: 5(mL) Date Analyzed: 02/25/2018 14:35
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 4 TIC Result Total: 304

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
526-73-8	Benzene, 1,2,3-trimethyl-	10.07	33	T J N	95%
108-67-8	Benzene, 1,3,5-trimethyl-	10.44	150	T J N	95%
95-63-6	Benzene, 1,2,4-trimethyl-	10.85	93	T J N	94%
	Unknown	11.04	28	T J	

JS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-131737-1</u>
SDG No.: _____	_____
Client Sample ID: <u>ML-2I</u>	Lab Sample ID: <u>480-131737-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>N7316.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/21/2018 15:10</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>02/26/2018 13:52</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>40</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>401400</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		40	33
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	8.4
79-00-5	1,1,2-Trichloroethane	ND		40	9.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12
75-34-3	1,1-Dichloroethane	1000		40	15
75-35-4	1,1-Dichloroethene	ND		40	12
120-82-1	1,2,4-Trichlorobenzene	ND		40	16
96-12-8	1,2-Dibromo-3-Chloropropane	ND		40	16
95-50-1	1,2-Dichlorobenzene	ND		40	32
107-06-2	1,2-Dichloroethane	ND		40	8.4
78-87-5	1,2-Dichloropropane	ND		40	29
541-73-1	1,3-Dichlorobenzene	ND		40	31
106-46-7	1,4-Dichlorobenzene	ND		40	34
78-93-3	2-Butanone (MEK)	ND	LN	400	53
591-78-6	2-Hexanone	ND	LN	200	50
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	84
67-64-1	Acetone	ND		400	120
71-43-2	Benzene	38	J	40	16
75-27-4	Bromodichloromethane	ND		40	16
75-25-2	Bromoform	ND		40	10
74-83-9	Bromomethane	ND		40	28
75-15-0	Carbon disulfide	ND		40	7.6
56-23-5	Carbon tetrachloride	ND		40	11
108-90-7	Chlorobenzene	ND		40	30
124-48-1	Dibromochloromethane	ND		40	13
75-00-3	Chloroethane	38	J	40	13
67-66-3	Chloroform	ND		40	14
74-87-3	Chloromethane	ND		40	14
156-59-2	cis-1,2-Dichloroethene	1700		40	32
10061-01-5	cis-1,3-Dichloropropene	ND		40	14
110-82-7	Cyclohexane	ND		40	7.2
75-71-8	Dichlorodifluoromethane	ND		40	27
100-41-4	Ethylbenzene	39	J	40	30
106-93-4	1,2-Dibromoethane	ND		40	29
98-82-8	Isopropylbenzene	ND		40	32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Matrix: Water Lab File ID: N7316.D
 Analysis Method: 8260C Date Collected: 02/21/2018 15:10
 Sample wt/vol: 5(mL) Date Analyzed: 02/26/2018 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401400 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	05	100	52
1634-04-4	Methyl tert-butyl ether	20	J	40	6.4
108-87-2	Methylcyclohexane	ND		40	6.4
75-09-2	Methylene Chloride	ND		40	18
100-42-5	Styrene	ND		40	29
127-18-4	Tetrachloroethene	ND		40	14
108-88-3	Toluene	290		40	20
156-60-5	trans-1,2-Dichloroethene	ND		40	36
10061-02-6	trans-1,3-Dichloropropene	ND		40	15
79-01-6	Trichloroethene	ND		40	18
75-69-4	Trichlorofluoromethane	ND		40	35
75-01-4	Vinyl chloride	430		40	36
1330-20-7	Xylenes, Total	210		80	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-131737-1</u>
SDG No.:	
Client Sample ID: <u>ML-2I</u>	Lab Sample ID: <u>480-131737-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>N7316.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/21/2018 15:10</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>02/26/2018 13:52</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>40</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>401400</u>	Units: <u>ug/L</u>
Number TICs Found: <u>2</u>	TIC Result Total: <u>530</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.27	100	T J	
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.51	430	T J N	91%

JMS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: S7866.D
 Analysis Method: 8260C Date Collected: 02/21/2018 16:10
 Sample wt/vol: 5(mL) Date Analyzed: 02/25/2018 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	45		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	23		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	130		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	16		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	37		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: S7866.D
 Analysis Method: 8260C Date Collected: 02/21/2018 16:10
 Sample wt/vol: 5(mL) Date Analyzed: 02/25/2018 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	51		5.0	0.80
108-87-2	Methylcyclohexane	2.0	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	18		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	2.9	J	5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	83		5.0	4.5
1330-20-7	Xylenes, Total	210		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: S7866.D
 Analysis Method: 8260C Date Collected: 02/21/2018 16:10
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 15:22
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 5 TIC Result Total: 156

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
60-29-7	Ethyl ether	2.43	13	T J N	86%
108-67-8	Benzene, 1,3,5-trimethyl-	10.07	14	T J N	94%
526-73-8	Benzene, 1,2,3-trimethyl-	10.44	70	T J N	97%
620-14-4	Benzene, 1-ethyl-3-methyl-	10.85	45	T J N	94%
	Unknown	11.03	14	T J	

TJS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: N7373.D
 Analysis Method: 8260C Date Collected: 02/21/2018 09:10
 Sample wt/vol: 5(mL) Date Analyzed: 02/28/2018 11:37
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		40	33
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	8.4
79-00-5	1,1,2-Trichloroethane	ND		40	9.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	130		40	12
75-34-3	1,1-Dichloroethane	680		40	15
75-35-4	1,1-Dichloroethene	ND		40	12
120-82-1	1,2,4-Trichlorobenzene	ND		40	16
96-12-8	1,2-Dibromo-3-Chloropropane	ND		40	16
95-50-1	1,2-Dichlorobenzene	ND		40	32
107-06-2	1,2-Dichloroethane	ND		40	8.4
78-87-5	1,2-Dichloropropane	ND		40	29
541-73-1	1,3-Dichlorobenzene	ND		40	31
106-46-7	1,4-Dichlorobenzene	ND		40	34
78-93-3	2-Butanone (MEK)	ND		400	53
591-78-6	2-Hexanone	ND		200	50
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	84
67-64-1	Acetone	ND		400	120
71-43-2	Benzene	38	J	40	16
75-27-4	Bromodichloromethane	ND		40	16
75-25-2	Bromoform	ND		40	10
74-83-9	Bromomethane	ND		40	28
75-15-0	Carbon disulfide	ND		40	7.6
56-23-5	Carbon tetrachloride	ND		40	11
108-90-7	Chlorobenzene	ND		40	30
124-48-1	Dibromochloromethane	ND		40	13
75-00-3	Chloroethane	72		40	13
67-66-3	Chloroform	ND		40	14
74-87-3	Chloromethane	ND		40	14
156-59-2	cis-1,2-Dichloroethene	2900		40	32
10061-01-5	cis-1,3-Dichloropropene	ND		40	14
110-82-7	Cyclohexane	ND		40	7.2
75-71-8	Dichlorodifluoromethane	ND		40	27
100-41-4	Ethylbenzene	ND		40	30
106-93-4	1,2-Dibromoethane	ND		40	29
98-82-8	Isopropylbenzene	ND		40	32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: N7373.D
 Analysis Method: 8260C Date Collected: 02/21/2018 09:10
 Sample wt/vol: 5(mL) Date Analyzed: 02/28/2018 11:37
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		100	52
1634-04-4	Methyl tert-butyl ether	ND		40	6.4
108-87-2	Methylcyclohexane	ND		40	6.4
75-09-2	Methylene Chloride	38	<i>✓</i>	40	18
100-42-5	Styrene	ND		40	29
127-18-4	Tetrachloroethene	ND		40	14
108-88-3	Toluene	160		40	20
156-60-5	trans-1,2-Dichloroethene	ND		40	36
10061-02-6	trans-1,3-Dichloropropene	ND		40	15
79-01-6	Trichloroethene	ND		40	18
75-69-4	Trichlorofluoromethane	ND		40	35
75-01-4	Vinyl chloride	870		40	36
1330-20-7	Xylenes, Total	ND		80	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: N7373.D
 Analysis Method: 8260C Date Collected: 02/21/2018 09:10
 Sample wt/vol: 5(mL) Date Analyzed: 02/28/2018 11:37
 Soil Aliquot Vol: _____ Dilution Factor: 40
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 450

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.52	450	T J N	94%

TJN

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Client Sample ID: ML-7D

Lab Sample ID: 480-131737-5

Matrix: Water

Lab File ID: S7868.D

Analysis Method: 8260C

Date Collected: 02/21/2018 10:30

Sample wt/vol: 5(mL)

Date Analyzed: 02/25/2018 16:08

Soil Aliquot Vol: _____

Dilution Factor: 10

Soil Extract Vol.: _____

GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 401358

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	120		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24		10	3.1
75-34-3	1,1-Dichloroethane	420		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	61	<i>JS</i>	100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	25		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	100		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	20		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: S7868.D
 Analysis Method: 8260C Date Collected: 02/21/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	5.7	J	10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	17		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	9.8	J	10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	19		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: S7868.D
 Analysis Method: 8260C Date Collected: 02/21/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 02/25/2018 16:08
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401358 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: N7374.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5(mL) Date Analyzed: 02/28/2018 12:04
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	9.4		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	15	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	8.6		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	110		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	10		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: N7374.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5(mL) Date Analyzed: 02/28/2018 12:04
 Soil Aliquot Vol.: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	2.7	J	5.0	0.80
108-87-2	Methylcyclohexane	6.9		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	8.1		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	13		5.0	4.5
1330-20-7	Xylenes, Total	8.7	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

MA

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: N7374.D
 Analysis Method: 8260C Date Collected: 02/21/2018 11:40
 Sample wt/vol: 5 (mL) Date Analyzed: 02/28/2018 12:04
 Soil Aliquot Vol.: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.:

Client Sample ID: DUPE

Lab Sample ID: 480-131737-7

Matrix: Water

Lab File ID: N7375.D

Analysis Method: 8260C

Date Collected: 02/21/2018 00:00

Sample wt/vol: 5(mL)

Date Analyzed: 02/28/2018 12:31

Soil Aliquot Vol:

Dilution Factor: 5

Soil Extract Vol.:

GC Column: ZB-624 (20) ID: 0.18 (mm)

% Moisture:

Level: (low/med) Low

Analysis Batch No.: 401795

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	8.7		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	16	✓	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	9.1		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	120		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	11		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-131737-7
 Matrix: Water Lab File ID: N7375.D
 Analysis Method: 8260C Date Collected: 02/21/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 02/28/2018 12:31
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401795 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether	2.7	J	5.0	0.80
108-87-2	Methylcyclohexane	7.0		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	8.3		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	14		5.0	4.5
1330-20-7	Xylenes, Total	8.4	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TR

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-131737-1</u>
SDG No.:	
Client Sample ID: <u>DUPE</u>	Lab Sample ID: <u>480-131737-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>N7375.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/21/2018 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>02/28/2018 12:31</u>
Soil Aliquot Vol: <u>...</u>	Dilution Factor: <u>5</u>
Soil Extract Vol.: <u>...</u>	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: <u>...</u>	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>401795</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: N7304.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5(mL) Date Analyzed: 02/25/2018 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	29		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND UJ		100	13
591-78-6	2-Hexanone	ND UJ		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND UJ		100	30
71-43-2	Benzene	21		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	74		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	17		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	37		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: N7304.D
 Analysis Method: 8260C Date Collected: 02/21/2018 14:15
 Sample wt/vol: 5(mL) Date Analyzed: 02/25/2018 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401359 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND / PAUJ		25	13
1634-04-4	Methyl tert-butyl ether	42		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	15		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	47		10	9.0
1330-20-7	Xylenes, Total	250		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-131737-1</u>
SDG No.: _____	_____
Client Sample ID: <u>LBA-SBW-16</u>	Lab Sample ID: <u>480-131737-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>N7304.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>02/21/2018 14:15</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>02/25/2018 14:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>401359</u>	Units: <u>ug/L</u>
Number TICs Found: <u>3</u>	TIC Result Total: <u>190</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.20	31	T J	
611-14-3	Benzene, 1-ethyl-2-methyl-	10.44	98	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.86	61	T J N	95%

M

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Matrix: Water Lab File ID: 21_06_271.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 13:05
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 09:09
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	ND		310	66

MS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Matrix: Water Lab File ID: 21_06_272.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 15:10
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 09:27
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	230	J	330	66
74-85-1	Ethene	980		310	66

JMS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-131737-3
 Matrix: Water Lab File ID: 21_06_273.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 16:10
 Sample wt/vol: 17 (mL) Date Analyzed: 02/27/2018 09:44
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	ND		310	66

7/15

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-131737-4
 Matrix: Water Lab File ID: 21_06_274.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 09:10
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:02
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	150	J	330	66
74-85-1	Ethene	1100		310	66

MS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Matrix: Water Lab File ID: 21_06_275.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 10:30
 Sample wt/vol: 17 (mL) Date Analyzed: 02/27/2018 10:19
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	110	J	330	66
74-85-1	Ethene	1300		310	66

JHS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Matrix: Water Lab File ID: 21_06_276.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 11:40
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:37
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	ND		310	66

WPS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-131737-8
 Matrix: Water Lab File ID: 21_06_277.D
 Analysis Method: RSK-175 Date Collected: 02/21/2018 14:15
 Sample wt/vol: 17(mL) Date Analyzed: 02/27/2018 10:54
 Soil Aliquot Vol: _____ Dilution Factor: 44
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 401576 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		330	66
74-85-1	Ethene	100	J	310	66

MS

IB-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2S Lab Sample ID: 480-131737-1
 Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 02/21/2018 13:05
 Reporting Basis: WET Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND UJ	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND UJ	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	390	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	18.2	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND R	0.10	0.075	mg/L		HF	1	SM 3500 FE D

JK

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2I Lab Sample ID: 480-131737-2
 Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 02/21/2018 15:10
 Reporting Basis: WET Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND UJ 0.050	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	0.031 J	0.050	0.020	mg/L as N	J		1	353.2
16887-00-6	Chloride	425	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	11.7	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND R 0.10	0.10	0.075	mg/L		HF	1	SM 3500 FE D

M

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2D _____ Lab Sample ID: 480-131737-3 _____
 Lab Name: TestAmerica Buffalo _____ Job No.: 480-131737-1 _____
 SOG ID.: _____
 Matrix: Water _____ Date Sampled: 02/21/2018 16:10 _____
 Reporting Basis: WET _____ Date Received: 02/23/2018 10:30 _____

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND <i>UJ</i> 0.050	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND <i>UJ</i> 0.050	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	419	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	3.6	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND <i>R</i> 0.10	0.10	0.075	mg/L		HF	1	SM 3500 FE 0

JK

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-71 Lab Sample ID: 480-131737-4
 Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 02/21/2018 09:10
 Reporting Basis: WET Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND UJ 0.050	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 P
14797-55-8	Nitrate	ND UJ 0.050	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	344	2.5	1.4	mg/L			5	9056A
14808-79-8	Sulfate	ND	10.0	1.7	mg/L			5	9056A
15438-31-0	Ferrous Iron	ND R 0.10	0.10	0.075	mg/L		HF	1	SM 3500 FE D

MS

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7D Lab Sample ID: 480-131737-5
 Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 02/21/2018 10:30
 Reporting Basis: WET Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND <i>UJ</i>	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	0.038 <i>J</i>	0.050	0.020	mg/L as N	J	H	1	353.2
16887-00-6	Chloride	428	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND <i>R</i>	0.10	0.075	mg/L		HF	1	SM 3500 FE D

TR

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-131737-6
 Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 02/21/2018 11:40
 Reporting Basis: WET Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND UJ 0.050	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	2.0	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND UJ 0.050	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	738	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	90.6	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND R 0.10	0.10	0.075	mg/L		RF	1	SM 3500 FE D

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1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: LBA-SBW-16

Lab Sample ID: 480-131737-8

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG ID.:

Matrix: Water

Date Sampled: 02/21/2018 14:15

Reporting Basis: WET

Date Received: 02/23/2018 10:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND <i>UJ</i> 0.050	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500
14797-55-8	Nitrate	ND <i>UJ</i> 0.050	0.050	0.020	mg/L as N		H	1	^{S2 F} 353.2
16887-00-6	Chloride	344	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	4.1	20.0	3.5	mg/L	J		10	9056A
15438-31-0	Ferrous Iron	ND <i>R</i> 0.10	0.10	0.075	mg/L		HF	1	SM 3500 FE D

MM

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2S	480-131737-1	97 ✓	101 ✓	101 ✓	100 ✓
ML-2I	480-131737-2	106	95	102	103
ML-2D	480-131737-3	99	100	98	96
ML-7I	480-131737-4	109	104	103	105
ML-7D	480-131737-5	101	102	99	94
LBA-SBW-15	480-131737-6	100	102	102	104
DUPE	480-131737-7	103	102	100	103
LBA-SBW-16	480-131737-8	100	92	102	105
	MB 480-401358/7	97	100	101	95
	MB 480-401359/7	104	97	102	103
	MB 480-401400/7	107	96	101	104
	MB 480-401795/7	104	102	95	95
	LCS 480-401358/5	102	100	100	97
	LCS 480-401359/5	102	90	97	98
	LCS 480-401400/5	106	92	104	106
	LCS 480-401795/5	99	98	96	102
LBA-SBW-15 MS	480-131737-6 MS	102	97	98	100
LBA-SBW-16 MS	480-131737-8 MS	102	91	101	101
LBA-SBW-15 MSD	480-131737-6 MSD	99	98	96	103
LBA-SBW-16 MSD	480-131737-8 MSD	103	92	103	104

QC LIMITS

DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S7854.D

Lab ID: LCS 480-401358/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	23.2	93	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.1	101	76-120	
1,1,2-Trichloroethane	25.0	25.3	101	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.6	91	61-148	
1,1-Dichloroethane	25.0	25.0	100	77-120	
1,1-Dichloroethene	25.0	24.8	99	66-127	
1,2,4-Trichlorobenzene	25.0	24.3	97	79-122	
1,2-Dibromo-3-Chloropropane	25.0	22.5	90	56-134	
1,2-Dichlorobenzene	25.0	25.2	101	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	25.4	101	76-120	
1,3-Dichlorobenzene	25.0	25.2	101	77-120	
1,4-Dichlorobenzene	25.0	24.3	97	80-120	
2-Butanone (MEK)	125	126	101	57-140	
2-Hexanone	125	121	97	65-127	
4-Methyl-2-pentanone (MIBK)	125	127	102	71-125	
Acetone	125	124	99	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	23.7	95	80-122	
Bromoform	25.0	22.6	91	61-132	
Bromomethane	25.0	24.2	97	55-144	
Carbon disulfide	25.0	21.0	84	59-134	
Carbon tetrachloride	25.0	22.0	88	72-134	
Chlorobenzene	25.0	24.4	97	80-120	
Dibromochloromethane	25.0	23.3	93	75-125	
Chloroethane	25.0	26.7	107	69-136	
Chloroform	25.0	24.6	99	73-127	
Chloromethane	25.0	23.2	93	68-124	
cis-1,2-Dichloroethene	25.0	24.7	99	74-124	
cis-1,3-Dichloropropene	25.0	24.9	100	74-124	
Cyclohexane	25.0	23.1	92	59-135	
Dichlorodifluoromethane	25.0	25.9	104	59-135	
Ethylbenzene	25.0	23.7	95	77-123	
1,2-Dibromoethane	25.0	24.7	99	77-120	
Isopropylbenzene	25.0	23.9	96	77-122	
Methyl acetate	50.0	53.1	106	74-133	
Methyl tert-butyl ether	25.0	25.0	100	77-120	
Methylcyclohexane	25.0	24.0	96	68-134	
Methylene Chloride	25.0	22.3	89	75-124	
Styrene	25.0	23.9	96	80-120	
Tetrachloroethene	25.0	24.2	97	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S7854.D
 Lab ID: LCS 480-401358/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.7	95	80-122	
trans-1,2-Dichloroethene	25.0	23.9	96	73-127	
trans-1,3-Dichloropropene	25.0	24.6	98	80-120	
Trichloroethene	25.0	23.4	94	74-123	
Trichlorofluoromethane	25.0	26.8	107	62-150	
Vinyl chloride	25.0	26.4	105	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7295.D
 Lab ID: LCS 480-401359/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.8	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.8	83	76-120	
1,1,2-Trichloroethane	25.0	22.5	90	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.1	120	61-148	
1,1-Dichloroethane	25.0	26.6	106	77-120	
1,1-Dichloroethene	25.0	26.2	105	66-127	
1,2,4-Trichlorobenzene	25.0	27.7	111	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.4	86	56-134	
1,2-Dichlorobenzene	25.0	25.5	102	80-124	
1,2-Dichloroethane	25.0	21.7	87	75-120	
1,2-Dichloropropane	25.0	25.6	102	76-120	
1,3-Dichlorobenzene	25.0	25.3	101	77-120	
1,4-Dichlorobenzene	25.0	25.2	101	80-120	
2-Butanone (MEK)	125	93.1	74	57-140	
2-Hexanone	125	92.0	74	65-127	
4-Methyl-2-pentanone (MIBK)	125	96.0	77	71-125	
Acetone	125	103	82	56-142	
Benzene	25.0	25.8	103	71-124	
Bromodichloromethane	25.0	25.8	103	80-122	
Bromoform	25.0	22.2	89	61-132	
Bromomethane	25.0	20.7	83	55-144	
Carbon disulfide	25.0	26.4	105	59-134	
Carbon tetrachloride	25.0	27.6	111	72-134	
Chlorobenzene	25.0	25.3	101	80-120	
Dibromochloromethane	25.0	23.7	95	75-125	
Chloroethane	25.0	22.7	91	69-136	
Chloroform	25.0	25.0	100	73-127	
Chloromethane	25.0	24.2	97	68-124	
cis-1,2-Dichloroethene	25.0	26.6	106	74-124	
cis-1,3-Dichloropropene	25.0	25.3	101	74-124	
Cyclohexane	25.0	30.0	120	59-135	
Dichlorodifluoromethane	25.0	27.0	108	59-135	
Ethylbenzene	25.0	25.0	100	77-123	
1,2-Dibromoethane	25.0	21.9	88	77-120	
Isopropylbenzene	25.0	25.3	101	77-122	
Methyl acetate	50.0	35.9	72	74-133	*
Methyl tert-butyl ether	25.0	23.2	93	77-120	
Methylcyclohexane	25.0	29.7	119	68-134	
Methylene Chloride	25.0	24.4	98	75-124	
Styrene	25.0	25.0	100	80-120	
Tetrachloroethene	25.0	26.1	104	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7295.D
 Lab ID: LCS 480-401359/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.6	99	80-122	
trans-1,2-Dichloroethene	25.0	26.2	105	73-127	
trans-1,3-Dichloropropene	25.0	24.0	96	80-120	
Trichloroethene	25.0	25.4	102	74-123	
Trichlorofluoromethane	25.0	25.8	103	62-150	
Vinyl chloride	25.0	24.2	97	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7311.D
 Lab ID: LCS 480-401400/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.1	108	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.4	82	76-120	
1,1,2-Trichloroethane	25.0	22.0	88	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.3	121	61-148	
1,1-Dichloroethane	25.0	26.4	106	77-120	
1,1-Dichloroethene	25.0	26.8	107	66-127	
1,2,4-Trichlorobenzene	25.0	27.6	110	79-122	
1,2-Dibromo-3-Chloropropane	25.0	18.7	75	56-134	
1,2-Dichlorobenzene	25.0	25.3	101	80-124	
1,2-Dichloroethane	25.0	21.0	84	75-120	
1,2-Dichloropropane	25.0	26.5	106	76-120	
1,3-Dichlorobenzene	25.0	26.2	105	77-120	
1,4-Dichlorobenzene	25.0	25.6	102	80-120	
2-Butanone (MEK)	125	79.9	64	57-140	
2-Hexanone	125	85.1	68	65-127	
4-Methyl-2-pentanone (MIBK)	125	90.7	73	71-125	
Acetone	125	84.6	68	56-142	
Benzene	25.0	25.7	103	71-124	
Bromodichloromethane	25.0	25.3	101	80-122	
Bromoform	25.0	22.1	88	61-132	
Bromomethane	25.0	22.4	90	55-144	
Carbon disulfide	25.0	27.5	110	59-134	
Carbon tetrachloride	25.0	28.4	114	72-134	
Chlorobenzene	25.0	26.0	104	80-120	
Dibromochloromethane	25.0	24.3	97	75-125	
Chloroethane	25.0	24.0	96	69-136	
Chloroform	25.0	24.9	100	73-127	
Chloromethane	25.0	23.8	95	68-124	
cis-1,2-Dichloroethene	25.0	26.6	106	74-124	
cis-1,3-Dichloropropene	25.0	25.5	102	74-124	
Cyclohexane	25.0	30.8	123	59-135	
Dichlorodifluoromethane	25.0	26.6	106	59-135	
Ethylbenzene	25.0	25.9	103	77-123	
1,2-Dibromoethane	25.0	21.4	85	77-120	
Isopropylbenzene	25.0	26.6	107	77-122	
Methyl acetate	50.0	32.8	66	74-133	*
Methyl tert-butyl ether	25.0	22.4	90	77-120	
Methylcyclohexane	25.0	30.8	123	68-134	
Methylene Chloride	25.0	24.7	99	75-124	
Styrene	25.0	25.9	103	80-120	
Tetrachloroethene	25.0	26.2	105	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7311.D
 Lab ID: LCS 480-401400/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	24.6	98	80-122	
trans-1,2-Dichloroethene	25.0	26.6	106	73-127	
trans-1,3-Dichloropropene	25.0	24.4	98	80-120	
Trichloroethene	25.0	25.8	103	74-123	
Trichlorofluoromethane	25.0	27.1	109	62-150	
Vinyl chloride	25.0	24.0	96	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7370.D
 Lab ID: LCS 480-401795/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.0	88	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.7	103	76-120	
1,1,2-Trichloroethane	25.0	22.7	91	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	100	61-148	
1,1-Dichloroethane	25.0	23.0	92	77-120	
1,1-Dichloroethene	25.0	19.0	76	66-127	
1,2,4-Trichlorobenzene	25.0	22.9	92	79-122	
1,2-Dibromo-3-Chloropropane	25.0	27.4	109	56-134	
1,2-Dichlorobenzene	25.0	23.5	94	80-124	
1,2-Dichloroethane	25.0	22.3	89	75-120	
1,2-Dichloropropane	25.0	23.9	96	76-120	
1,3-Dichlorobenzene	25.0	23.4	94	77-120	
1,4-Dichlorobenzene	25.0	23.1	93	80-120	
2-Butanone (MEK)	125	115	92	57-140	
2-Hexanone	125	124	99	65-127	
4-Methyl-2-pentanone (MIBK)	125	123	98	71-125	
Acetone	125	93.0	74	56-142	
Benzene	25.0	22.6	91	71-124	
Bromodichloromethane	25.0	23.0	92	80-122	
Bromoform	25.0	24.9	100	61-132	
Bromomethane	25.0	22.2	89	55-144	
Carbon disulfide	25.0	23.8	95	59-134	
Carbon tetrachloride	25.0	22.9	92	72-134	
Chlorobenzene	25.0	22.9	91	80-120	
Dibromochloromethane	25.0	23.1	92	75-125	
Chloroethane	25.0	22.5	90	69-136	
Chloroform	25.0	22.3	89	73-127	
Chloromethane	25.0	23.6	94	68-124	
cis-1,2-Dichloroethene	25.0	23.2	93	74-124	
cis-1,3-Dichloropropene	25.0	23.9	96	74-124	
Cyclohexane	25.0	24.0	96	59-135	
Dichlorodifluoromethane	25.0	25.7	103	59-135	
Ethylbenzene	25.0	22.6	90	77-123	
1,2-Dibromoethane	25.0	23.5	94	77-120	
Isopropylbenzene	25.0	23.1	92	77-122	
Methyl acetate	50.0	43.1	86	74-133	
Methyl tert-butyl ether	25.0	22.1	88	77-120	
Methylcyclohexane	25.0	25.5	102	68-134	
Methylene Chloride	25.0	22.3	89	75-124	
Styrene	25.0	23.6	94	80-120	
Tetrachloroethene	25.0	22.8	91	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7370.D
 Lab ID: LCS 480-401795/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			✓ REC	LIMITS REC	
Toluene	25.0	21.5	86	80-122	
trans-1,2-Dichloroethene	25.0	23.1	92	73-127	
trans-1,3-Dichloropropene	25.0	23.2	93	80-120	
Trichloroethene	25.0	22.9	92	74-123	
Trichlorofluoromethane	25.0	23.6	94	62-150	
Vinyl chloride	25.0	22.6	90	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: N7391.D

Lab ID: 480-131737-6 MS

Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	ND	133	106	73-126	
1,1,2,2-Tetrachloroethane	125	ND	139	111	76-120	
1,1,2-Trichloroethane	125	ND	132	106	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	ND	149	119	61-148	
1,1-Dichloroethane	125	9.4	141	106	77-120	
1,1-Dichloroethene	125	ND	132	105	66-127	
1,2,4-Trichlorobenzene	125	ND	133	106	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	163	131	56-134	
1,2-Dichlorobenzene	125	ND	132	105	80-124	
1,2-Dichloroethane	125	ND	120	96	75-120	
1,2-Dichloropropane	125	ND	138	110	76-120	
1,3-Dichlorobenzene	125	ND	131	105	77-120	
1,4-Dichlorobenzene	125	ND	129	103	78-124	
2-Butanone (MEK)	625	15 J	755	118	57-140	
2-Hexanone	625	ND	689	110	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	688	110	71-125	
Acetone	625	ND	568	91	56-142	
Benzene	125	8.6	140	105	71-124	
Bromodichloromethane	125	ND	131	105	80-122	
Bromoform	125	ND	132	106	61-132	
Bromomethane	125	ND	118	94	55-144	
Carbon disulfide	125	ND	133	107	59-134	
Carbon tetrachloride	125	ND	138	110	72-134	
Chlorobenzene	125	ND	128	102	80-120	
Dibromochloromethane	125	ND	132	105	75-125	
Chloroethane	125	110	238	104	69-136	
Chloroform	125	ND	127	102	73-127	
Chloromethane	125	ND	130	104	68-124	
cis-1,2-Dichloroethene	125	10	143	107	74-124	
cis-1,3-Dichloropropene	125	ND	127	101	74-124	
Cyclohexane	125	ND	149	119	59-135	
Dichlorodifluoromethane	125	ND	141	113	59-135	
Ethylbenzene	125	ND	131	105	77-123	
1,2-Dibromoethane	125	ND	136	109	77-120	
Isopropylbenzene	125	ND	139	111	77-122	
Methyl acetate	250	ND	252	101	74-133	
Methyl tert-butyl ether	125	2.7 J	129	101	77-120	
Methylcyclohexane	125	6.9	158	121	68-134	
Methylene Chloride	125	ND	132	105	75-124	
Styrene	125	ND	130	104	80-120	
Tetrachloroethene	125	ND	131	105	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7391.D
 Lab ID: 480-131737-6 MS Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS	QC	#
				% REC	LIMITS REC	
Toluene	125	8.1	129	97	80-122	
trans-1,2-Dichloroethene	125	ND	135	108	73-127	
trans-1,3-Dichloropropene	125	ND	122	98	80-120	
Trichloroethene	125	ND	130	104	74-123	
Trichlorofluoromethane	125	ND	135	108	62-150	
Vinyl chloride	125	13	138	100	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: N7305.D

Lab ID: 480-131737-8 MS

Client ID: LBA-SBW-16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	250	ND	286	114	73-126	
1,1,2,2-Tetrachloroethane	250	ND	212	85	76-120	
1,1,2-Trichloroethane	250	ND	222	89	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	ND	303	121	61-148	
1,1-Dichloroethane	250	29	290	104	77-120	
1,1-Dichloroethene	250	ND	275	110	66-127	
1,2,4-Trichlorobenzene	250	ND	285	114	79-122	
1,2-Dibromo-3-Chloropropane	250	ND	210	84	56-134	
1,2-Dichlorobenzene	250	ND	264	106	80-124	
1,2-Dichloroethane	250	ND	216	87	75-120	
1,2-Dichloropropane	250	ND	257	103	76-120	
1,3-Dichlorobenzene	250	ND	269	108	77-120	
1,4-Dichlorobenzene	250	ND	261	105	78-124	
2-Butanone (MEK)	1250	ND	835	67	57-140	
2-Hexanone	1250	ND	857	69	65-127	
4-Methyl-2-pentanone (MIBK)	1250	ND	936	75	71-125	
Acetone	1250	ND	846	68	56-142	
Benzene	250	21	278	103	71-124	
Bromodichloromethane	250	ND	248	99	80-122	
Bromoform	250	ND	216	86	61-132	
Bromomethane	250	ND	223	89	55-144	
Carbon disulfide	250	ND	271	108	59-134	
Carbon tetrachloride	250	ND	288	115	72-134	
Chlorobenzene	250	ND	257	103	80-120	
Dibromochloromethane	250	ND	232	93	75-125	
Chloroethane	250	ND	245	98	69-136	
Chloroform	250	ND	255	102	73-127	
Chloromethane	250	ND	248	99	68-124	
cis-1,2-Dichloroethene	250	74	338	106	74-124	
cis-1,3-Dichloropropene	250	ND	249	100	74-124	
Cyclohexane	250	ND	315	126	59-135	
Dichlorodifluoromethane	250	ND	285	114	59-135	
Ethylbenzene	250	17	278	104	77-123	
1,2-Dibromoethane	250	ND	218	87	77-120	
Isopropylbenzene	250	37	318	113	77-122	
Methyl acetate	500	ND	329	66	74-133	F1
Methyl tert-butyl ether	250	42	267	90	77-120	
Methylcyclohexane	250	ND	306	122	68-134	
Methylene Chloride	250	ND	255	102	75-124	
Styrene	250	ND	259	104	80-120	
Tetrachloroethene	250	ND	261	104	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7305.D
 Lab ID: 480-131737-8 MS Client ID: LBA-SBW-16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS	QC	#
				% REC	LIMITS REC	
Toluene	250	15	265	100	80-122	
trans-1,2-Dichloroethene	250	ND	273	109	73-127	
trans-1,3-Dichloropropene	250	ND	234	94	80-120	
Trichloroethene	250	ND	261	105	74-123	
Trichlorofluoromethane	250	ND	275	110	62-150	
Vinyl chloride	250	47	301	101	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: N7392.D

Lab ID: 480-131737-6 MSD

Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	125	129	103	3	15	73-126	
1,1,2,2-Tetrachloroethane	125	142	113	2	15	76-120	
1,1,2-Trichloroethane	125	129	103	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	147	118	1	20	61-148	
1,1-Dichloroethane	125	137	102	4	20	77-120	
1,1-Dichloroethene	125	126	101	5	16	66-127	
1,2,4-Trichlorobenzene	125	134	107	1	20	79-122	
1,2-Dibromo-3-Chloropropane	125	162	129	1	15	56-134	
1,2-Dichlorobenzene	125	132	105	0	20	80-124	
1,2-Dichloroethane	125	118	95	1	20	75-120	
1,2-Dichloropropane	125	132	106	4	20	76-120	
1,3-Dichlorobenzene	125	130	104	1	20	77-120	
1,4-Dichlorobenzene	125	129	103	0	20	78-124	
2-Butanone (MEK)	625	745	117	1	20	57-140	
2-Hexanone	625	703	113	2	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	695	111	1	35	71-125	
Acetone	625	634	101	11	15	56-142	
Benzene	125	135	101	4	13	71-124	
Bromodichloromethane	125	128	103	2	15	80-122	
Bromoform	125	135	108	2	15	61-132	
Bromomethane	125	116	93	2	15	55-144	
Carbon disulfide	125	127	102	5	15	59-134	
Carbon tetrachloride	125	130	104	6	15	72-134	
Chlorobenzene	125	129	103	1	25	80-120	
Dibromochloromethane	125	130	104	1	15	75-125	
Chloroethane	125	230	97	4	15	69-136	
Chloroform	125	123	98	4	20	73-127	
Chloromethane	125	125	100	4	15	68-124	
cis-1,2-Dichloroethene	125	136	101	5	15	74-124	
cis-1,3-Dichloropropene	125	126	101	1	15	74-124	
Cyclohexane	125	134	107	11	20	59-135	
Dichlorodifluoromethane	125	132	105	7	20	59-135	
Ethylbenzene	125	129	103	2	15	77-123	
1,2-Dibromoethane	125	132	106	3	15	77-120	
Isopropylbenzene	125	135	108	3	20	77-122	
Methyl acetate	250	258	103	2	20	74-133	
Methyl tert-butyl ether	125	127	100	2	37	77-120	
Methylcyclohexane	125	147	112	8	20	68-134	
Methylene Chloride	125	129	103	2	15	75-124	
Styrene	125	128	102	2	20	80-120	
Tetrachloroethene	125	129	103	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7392.D
 Lab ID: 480-131737-6 MSD Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD ✓ %		QC LIMITS		#
			REC	RPD	RPD	REC	
Toluene	125	129	97	0	15	80-122	
trans-1,2-Dichloroethene	125	130	104	4	20	73-127	
trans-1,3-Dichloropropene	125	122	97	1	15	80-120	
Trichloroethene	125	126	101	3	16	74-123	
Trichlorofluoromethane	125	126	101	6	20	62-150	
Vinyl chloride	125	134	96	3	15	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: N7306.D

Lab ID: 480-131737-8 MSD

Client ID: LBA-SBW-16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	250	275	110	4	15	73-126	
1,1,2,2-Tetrachloroethane	250	210	84	1	15	76-120	
1,1,2-Trichloroethane	250	230	92	4	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	308	123	1	20	61-148	
1,1-Dichloroethane	250	292	105	1	20	77-120	
1,1-Dichloroethene	250	269	108	2	16	66-127	
1,2,4-Trichlorobenzene	250	292	117	3	20	79-122	
1,2-Dibromo-3-Chloropropane	250	206	82	2	15	56-134	
1,2-Dichlorobenzene	250	267	107	1	20	80-124	
1,2-Dichloroethane	250	218	87	1	20	75-120	
1,2-Dichloropropane	250	257	103	0	20	76-120	
1,3-Dichlorobenzene	250	259	104	4	20	77-120	
1,4-Dichlorobenzene	250	265	106	1	20	78-124	
2-Butanone (MEK)	1250	831	66	1	20	57-140	
2-Hexanone	1250	848	68	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	1250	924	74	1	35	71-125	
Acetone	1250	854	68	1	15	56-142	
Benzene	250	279	103	0	13	71-124	
Bromodichloromethane	250	250	100	1	15	80-122	
Bromoform	250	218	87	1	15	61-132	
Bromomethane	250	226	91	1	15	55-144	
Carbon disulfide	250	270	108	1	15	59-134	
Carbon tetrachloride	250	285	114	1	15	72-134	
Chlorobenzene	250	259	104	1	25	80-120	
Dibromochloromethane	250	235	94	1	15	75-125	
Chloroethane	250	241	96	2	15	69-136	
Chloroform	250	248	99	3	20	73-127	
Chloromethane	250	246	98	1	15	68-124	
cis-1,2-Dichloroethene	250	331	103	2	15	74-124	
cis-1,3-Dichloropropene	250	248	99	1	15	74-124	
Cyclohexane	250	312	125	1	20	59-135	
Dichlorodifluoromethane	250	283	113	1	20	59-135	
Ethylbenzene	250	280	105	1	15	77-123	
1,2-Dibromoethane	250	220	88	1	15	77-120	
Isopropylbenzene	250	312	110	2	20	77-122	
Methyl acetate	500	331	66	1	20	74-133	F1
Methyl tert-butyl ether	250	264	89	1	37	77-120	
Methylcyclohexane	250	305	122	0	20	68-134	
Methylene Chloride	250	243	97	5	15	75-124	
Styrene	250	259	104	0	20	80-120	
Tetrachloroethene	250	264	106	1	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N7306.D
 Lab ID: 480-131737-8 MSD Client ID: LBA-SBW-16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Toluene	250	264	100	0	15	80-122	
trans-1,2-Dichloroethene	250	261	104	4	20	73-127	
trans-1,3-Dichloropropene	250	239	95	2	15	80-120	
Trichloroethene	250	258	103	1	16	74-123	
Trichlorofluoromethane	250	275	110	0	20	62-150	
Vinyl chloride	250	294	99	2	15	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
SDG No.: _____
Lab File ID: S7856.D Lab Sample ID: MB 480-401358/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 02/25/2018 10:48
GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-401358/5	S7854.D	02/25/2018 10:01
ML-2S	480-131737-1	S7864.D	02/25/2018 14:35
ML-2D	480-131737-3	S7866.D	02/25/2018 15:22
ML-7D	480-131737-5	S7868.D	02/25/2018 16:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7297.D Lab Sample ID: MB 480-401359/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 02/25/2018 11:12
 GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-401359/5	N7295.D	02/25/2018 10:19
LBA-SBW-16	480-131737-8	N7304.D	02/25/2018 14:47
LBA-SBW-16 MS	480-131737-8 MS	N7305.D	02/25/2018 15:14
LBA-SBW-16 MSD	480-131737-8 MSD	N7306.D	02/25/2018 15:40

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
SDG No.: _____
Lab File ID: N7313.D Lab Sample ID: MB 480-401400/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973N Date Analyzed: 02/26/2018 11:04
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-401400/5	N7311.D	02/26/2018 10:11
ML-2I	480-131737-2	N7316.D	02/26/2018 13:52

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7372.D Lab Sample ID: MB 480-401795/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 02/28/2018 10:56
 GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-401795/5	N7370.D	02/28/2018 10:01
ML-7I	480-131737-4	N7373.D	02/28/2018 11:37
LBA-SBW-15	480-131737-6	N7374.D	02/28/2018 12:04
DUPE	480-131737-7	N7375.D	02/28/2018 12:31
LBA-SBW-15 MS	480-131737-6 MS	N7391.D	02/28/2018 19:45
LBA-SBW-15 MSD	480-131737-6 MSD	N7392.D	02/28/2018 20:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N6811.D BFB Injection Date: 01/31/2018
 Instrument ID: HP5973N BFB Injection Time: 14:31
 Analysis Batch No.: 398122

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	31.3	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	87.4	
175	5.0 - 9.0 % of mass 174	5.8	(6.7) 1
176	95.0 - 101.0 % of mass 174	84.4	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-398122/7	N6813.D	01/31/2018	15:32
	IC 480-398122/8	N6814.D	01/31/2018	15:59
	IC 480-398122/9	N6815.D	01/31/2018	16:26
	IC 480-398122/10	N6816.D	01/31/2018	16:52
	IC 480-398122/11	N6817.D	01/31/2018	17:20
	ICIS 480-398122/12	N6818.D	01/31/2018	17:46
	IC 480-398122/13	N6819.D	01/31/2018	18:13
	IC 480-398122/14	N6820.D	01/31/2018	18:40
	IC 480-398122/19	N6825.D	01/31/2018	20:53
	IC 480-398122/20	N6826.D	01/31/2018	21:20
	IC 480-398122/21	N6827.D	01/31/2018	21:47
	IC 480-398122/22	N6828.D	01/31/2018	22:14
	IC 480-398122/23	N6829.D	01/31/2018	22:41
	IC 480-398122/24	N6830.D	01/31/2018	23:09
	IC 480-398122/25	N6831.D	01/31/2018	23:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7292.D BFB Injection Date: 02/25/2018
 Instrument ID: HP5973N BFB Injection Time: 09:01
 Analysis Batch No.: 401359

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	32.0 ✓
75	30.0 - 60.0 % of mass 95	47.5 ✓
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	85.6
175	5.0 - 9.0 % of mass 174	7.1 (8.3) 1
176	95.0 - 101.0 % of mass 174	81.5 (95.2) 1
177	5.0 - 9.0 % of mass 176	6.1 (7.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401359/3	N7293.D	02/25/2018	09:25
	LCS 480-401359/5	N7295.D	02/25/2018	10:19
	MB 480-401359/7	N7297.D	02/25/2018	11:12
LBA-SBW-16	480-131737-8	N7304.D	02/25/2018	14:47
LBA-SBW-16 MS	480-131737-8 MS	N7305.D	02/25/2018	15:14
LBA-SBW-16 MSD	480-131737-8 MSD	N7306.D	02/25/2018	15:40 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7308.D BFB Injection Date: 02/26/2018
 Instrument ID: HP5973N BFB Injection Time: 08:52
 Analysis Batch No.: 401400

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	30.9
75	30.0 - 60.0 % of mass 95	45.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	85.0
175	5.0 - 9.0 % of mass 174	7.1 (8.3) 1
176	95.0 - 101.0 % of mass 174	81.9 (96.4) 1
177	5.0 - 9.0 % of mass 176	5.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401400/3	N7309.D	02/26/2018	09:17
	LCS 480-401400/5	N7311.D	02/26/2018	10:11
	MB 480-401400/7	N7313.D	02/26/2018	11:04
ML-2I	480-131737-2	N7316.D	02/26/2018	13:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: N7367.D BFB Injection Date: 02/28/2018
 Instrument ID: HP5973N BFB Injection Time: 08:43
 Analysis Batch No.: 401795

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.0	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	81.4	
175	5.0 - 9.0 % of mass 174	6.8	(8.4) 1
176	95.0 - 101.0 % of mass 174	80.6	(99.0) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401795/3	N7368.D	02/28/2018	09:07
	CCV 480-401795/4	N7369.D	02/28/2018	09:34
	LCS 480-401795/5	N7370.D	02/28/2018	10:01
	MB 480-401795/7	N7372.D	02/28/2018	10:56
ML-7I	480-131737-4	N7373.D	02/28/2018	11:37
LBA-SBW-15	480-131737-6	N7374.D	02/28/2018	12:04
DUPE	480-131737-7	N7375.D	02/28/2018	12:31
LBA-SBW-15 MS	480-131737-6 MS	N7391.D	02/28/2018	19:45
LBA-SBW-15 MSD	480-131737-6 MSD	N7392.D	02/28/2018	20:12 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: S6361.D BFB Injection Date: 01/09/2018
 Instrument ID: HP5973S BFB Injection Time: 23:52
 Analysis Batch No.: 395114

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	✓
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.1	(0.1) 1
174	50.0 - 120.00 % of mass 95	84.1	
175	5.0 - 9.0 % of mass 174	6.7	(8.0) 1
176	95.0 - 101.0 % of mass 174	84.2	(100.1) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-395114/4	S6363.D	01/10/2018	00:42
	IC 480-395114/5	S6364.D	01/10/2018	01:05
	IC 480-395114/6	S6365.D	01/10/2018	01:28
	IC 480-395114/7	S6366.D	01/10/2018	01:51
	IC 480-395114/8	S6367.D	01/10/2018	02:15
	ICIS 480-395114/9	S6368.D	01/10/2018	02:38
	IC 480-395114/10	S6369.D	01/10/2018	03:01
	IC 480-395114/11	S6370.D	01/10/2018	03:24
	IC 480-395114/16	S6375.D	01/10/2018	05:21
	IC 480-395114/17	S6376.D	01/10/2018	05:44
	IC 480-395114/18	S6377.D	01/10/2018	06:07
	IC 480-395114/19	S6378.D	01/10/2018	06:31
	IC 480-395114/20	S6379.D	01/10/2018	06:54
	IC 480-395114/21	S6380.D	01/10/2018	07:17
	IC 480-395114/22	S6381.D	01/10/2018	07:40 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab File ID: S7851.D BFB Injection Date: 02/25/2018
 Instrument ID: HP5973S BFB Injection Time: 08:46
 Analysis Batch No.: 401358

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	85.2	
175	5.0 - 9.0 % of mass 174	6.3	(7.4) 1
176	95.0 - 101.0 % of mass 174	84.7	(99.5) 1
177	5.0 - 9.0 % of mass 176	6.3	(7.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-401358/3	S7852.D	02/25/2018	09:15
	CCV 480-401358/4	S7853.D	02/25/2018	09:38
	LCS 480-401358/5	S7854.D	02/25/2018	10:01
	MB 480-401358/7	S7856.D	02/25/2018	10:48
ML-2S	480-131737-1	S7864.D	02/25/2018	14:35
ML-2D	480-131737-3	S7866.D	02/25/2018	15:22
ML-7D	480-131737-5	S7868.D	02/25/2018	16:08 ✓

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: ICIS 480-398122/12 Date Analyzed: 01/31/2018 17:46
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): N6818.D Heated Purge: (Y/N) N
 Calibration ID: 32733

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	211199	5.41	794111	8.39	411009	10.78
UPPER LIMIT	422398	5.91	1588222	8.89	822018	11.28
LOWER LIMIT	105600	4.91	397056	7.89	205505	10.28
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-401359/3	207849	5.41 ✓	749253	8.39 ✓	411621	10.79 ✓
CCVIS 480-401400/3	201500	5.41	755370	8.39	402541	10.79
CCVIS 480-401795/3	185318	5.41	707191	8.39	372649	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401359/3 Date Analyzed: 02/25/2018 09:25
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): N7293.D Heated Purge: (Y/N) N
 Calibration ID: 32731

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	207849	5.41	749253	8.39	411621	10.79	
UPPER LIMIT	415698	5.91	1498506	8.89	823242	11.29	
LOWER LIMIT	103925	4.91	374627	7.89	205811	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-401359/5	206547	5.41 ✓	774145	8.39 ✓	412147	10.78 ✓	
MB 480-401359/7	199047	5.41	740273	8.39	405611	10.78	
480-131737-8	LBA-SBW-16	200034	5.40	721031	8.39	398444	10.78
480-131737-8 MS	LBA-SBW-16 MS	201965	5.41	748514	8.39	381302	10.78
480-131737-8 MSD	LBA-SBW-16 MSD	201788	5.41	732186	8.39	383075	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401400/3 Date Analyzed: 02/26/2018 09:17
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): N7309.D Heated Purge: (Y/N) N
 Calibration ID: 32731

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	201500	5.41	755370	8.39	402541	10.79	
UPPER LIMIT	403000	5.91	1510740	8.89	805082	11.29	
LOWER LIMIT	100750	4.91	377685	7.89	201271	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-401400/5	211319	5.40	782137	8.39	410514	10.78	
MB 480-401400/7	202407	5.40	762080	8.39	391255	10.78	
480-131737-2	ML-2I	195909	5.40	750611	8.39	394363	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401795/3 Date Analyzed: 02/28/2018 09:07
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N7368.D Heated Purge: (Y/N) N
 Calibration ID: 32731

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	185318	5.41	707191	8.39	372649	10.78	
UPPER LIMIT	370636	5.91	1414382	8.89	745298	11.28	
LOWER LIMIT	92659	4.91	353596	7.89	186325	10.28	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-401795/4	181213	5.41	723114	8.39	367866	10.79	
LCS 480-401795/5	184269	5.41	716659	8.39	370613	10.78	
ME 480-401795/7	173080	5.41	680443	8.39	340516	10.78	
480-131737-4	ML-7I	179337	5.41	654452	8.39	342300	10.78
480-131737-6	LBA-SBW-15	186291	5.41	687579	8.39	346526	10.79
480-131737-7	DUPE	180845	5.41	678933	8.39	347811	10.78
480-131737-6 MS	LBA-SBW-15 MS	174611	5.41	688765	8.39	354854	10.78
480-131737-6 MSD	LBA-SBW-15 MSD	177435	5.41	683237	8.39	354130	10.79

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: ICIS 480-395114/9 Date Analyzed: 01/10/2018 02:38
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): S6368.D Heated Purge: {Y/N} N
 Calibration ID: 32523

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	166664	5.55	342336	8.55	365955	10.92
UPPER LIMIT	333328	6.05	684672	9.05	731910	11.42
LOWER LIMIT	83332	5.05	171168	8.05	182978	10.42
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-401358/3	135557	5.41	292916	8.41	318534	10.80

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Sample No.: CCVIS 480-401358/3 Date Analyzed: 02/25/2018 09:15
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): S7852.D Heated Purge: (Y/N) N
 Calibration ID: 32526

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	135557	5.41	292916	8.41	318534	10.80	
UPPER LIMIT	271114	5.91	585832	8.91	637068	11.30	
LOWER LIMIT	67779	4.91	146458	7.91	159267	10.30	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-401358/4	139827	5.42 ✓	286894	8.41 ✓	298862	10.80 ✓	
LCS 480-401358/5	135806	5.42	293212	8.41	309734	10.80	
MB 480-401358/7	128021	5.42	266989	8.41	274080	10.80	
480-131737-1	ML-2S	121198	5.41	257395	8.41	276337	10.80
480-131737-3	ML-2D	124150	5.42	265950	8.41	283218	10.80
480-131737-5	ML-7D	123256	5.41	261122	8.41	268162	10.80

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_06_268.D
 Lab ID: LCS 480-401576/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Ethane	14.6	16.5	113	79-120	
Ethene	13.6	14.8	109	85-120	

Column to be used to flag recovery and RPD values
 FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_06_269.D
 Lab ID: LCSD 480-401576/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Ethane	14.6	16.3	112 ✓	1	50	79-120	
Ethene	13.6	14.5	106	2	50	85-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Lab Sample ID: MB 480-401576/3
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_06_267.D Lab File ID: (2) _____
 Date Analyzed: (1) 02/27/2018 07:24 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 480-401576/4	02/27/2018	07:42
	LCS 480-401576/5	02/27/2018	08:00
ML-2S	480-131737-1	02/27/2018	09:09
ML-2I	480-131737-2	02/27/2018	09:27
ML-2D	480-131737-3	02/27/2018	09:44
ML-7I	480-131737-4	02/27/2018	10:02
ML-7D	480-131737-5	02/27/2018	10:19
LBA-SBW-15	480-131737-6	02/27/2018	10:37
LBA-SBW-16	480-131737-8	02/27/2018	10:54

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 02/26/2018
 Reporting Units: mg/L Analytical Batch No.: 401560

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	12:45	Sulfide	10.00	9.60	104 ✓	90-110		Sulfide CCV_00194
2	CCB	12:45	Sulfide	ND					
13	CCV	12:45	Sulfide	9.60	9.60	100 ✓	90-110		Sulfide CCV_00194
14	CCB	12:45	Sulfide	ND					
19	CCV	12:45	Sulfide	9.20	9.60	96 ✓	90-110		Sulfide CCV_00194
20	CCB	12:45	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Analyst: RJS Batch Start Date: 02/27/2018

Reporting Units: mg/L Analytical Batch No.: 401728

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	21:58	Chloride	50.12	50.0	100 ✓	90-110		IC_ANION_LCS_0019 1
			Sulfate	50.65	50.0	101	90-110		IC_ANION_LCS_0019 1
26	CCB	22:06	Chloride	ND					
			Sulfate	ND					
37	CCV	23:36	Chloride	50.26	50.0	101 ✓	90-110		IC_ANION_LCS_0019 1
			Sulfate	50.80	50.0	102 ✓	90-110		IC_ANION_LCS_0019 1
38	CCB	23:44	Chloride	ND					
			Sulfate	ND					
49	CCV	01:14	Chloride	50.30	50.0	101 ✓	90-110		IC_ANION_LCS_0019 1
			Sulfate	50.62	50.0	101	90-110		IC_ANION_LCS_0019 1
50	CCB	01:22	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1
 SDG No.: _____
 Analyst: RJS Batch Start Date: 02/28/2018
 Reporting Units: mg/L Analytical Batch No.: 401749

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	10:55	Chloride	49.09	50.0	98 ✓	90-110		IC_ANION_LCS_0019 1
			Sulfate	51.05	50.0	102 ✓	90-110		IC_ANION_LCS_0019 1
3	CCB	11:03	Chloride	ND					
			Sulfate	ND					
14	CCV	12:33	Chloride	49.41	50.0	99 ✓	90-110		IC_ANION_LCS_0019 1
			Sulfate	50.78	50.0	102 ✓	90-110		IC_ANION_LCS_0019 1
15	CCB	12:41	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.: _____

Analyst: LED

Batch Start Date: 03/06/2018

Reporting Units: mg/L

Analytical Batch No.: 402716

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:05	Ferrous Iron	1.80	2.00	90 ✓	90-110		FE 200ppm ICV_00007
2	CCB	13:05	Ferrous Iron	ND					
13	CCV	13:05	Ferrous Iron	1.89	2.00	95	90-110		FE 200ppm ICV_00007
14	CCB	13:05	Ferrous Iron	ND					
16	CCV	13:05	Ferrous Iron	1.93	2.00	97	90-110		FE 200ppm ICV_00007
17	CCB	13:05	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 401728 Date: 02/27/2018 22:23							
9056A	MB 480-401728/28	Chloride	ND	✓	mg/L	0.50	1
9056A	MB 480-401728/28	Sulfate	ND		mg/L	2.0	1
Batch ID: 401749 Date: 02/28/2018 11:20							
9056A	MB 480-401749/5	Chloride	ND	✓	mg/L	0.50	1
9056A	MB 480-401749/5	Sulfate	ND	✓	mg/L	2.0	1
Batch ID: 402716 Date: 03/06/2018 13:05							
SM 3500 FE D	MB 480-402716/3	Ferrous Iron	ND	✓	mg/L	0.10	1
Batch ID: 401560 Date: 02/26/2018 12:45							
SM 4500 S2 F	MB 480-401560/3	Sulfide	ND	✓	mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 401728 Date: 02/28/2018 01:05											
9056A	480-131737-3	Chloride	419		mg/L						
9056A	480-131737-3	Chloride	894.3		mg/L	500	95 /	81-120			
	MS										
9056A	480-131737-3	Sulfate	3.6	J	mg/L						
9056A	480-131737-3	Sulfate	504.1		mg/L	500	100 /	80-120			
	MS										
Batch ID: 402716 Date: 03/06/2018 13:05											
SM 3500	480-131737-8	Ferrous Iron	ND		mg/L						HF
FE D											
SM 3500	480-131737-8	Ferrous Iron	0.778		mg/L	1.00	78 /	70-130			
FE D	MS										
Batch ID: 401560 Date: 02/26/2018 12:45											
SM 4500	480-131737-1	Sulfide	ND		mg/L						
S2 F											
SM 4500	480-131737-1	Sulfide	2.80		mg/L	2.40	117 /	40-150			
S2 F	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
 DUPLICATE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-131737-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result Unit	RPD	RPD Limit	Qual
Batch ID: 402716		Date: 03/06/2018 13:05					
SM 3500 FE	LBA-SBW-16	480-131737-8	Ferrous Iron	ND mg/L			
D							
SM 3500 FE	LBA-SBW-16	480-131737-8 DU	Ferrous Iron	ND mg/L	NC ✓	20	
D							
Batch ID: 401560		Date: 02/26/2018 12:45					
SM 4500 S2	LBA-SBW-15	480-131737-6	Sulfide	2.0 mg/L			
F							
SM 4500 S2	LBA-SBW-15	480-131737-6 DU	Sulfide	2.40 mg/L	18 ✓	20	
F							

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
 LAB CONTROL SAMPLE
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-131737-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 401728 Date: 02/27/2018 22:14			LCS Source: IC_ANION_LCS_00191								
9056A	LCS 480-401728/27	Chloride	50.20		mg/L	50.0	100 ✓	90-110			
9056A	LCS 480-401728/27	Sulfate	50.70		mg/L	50.0	101 ✓	90-110			
Batch ID: 401749 Date: 02/28/2018 11:12			LCS Source: IC_ANION_LCS_00191								
9056A	LCS 480-401749/4	Chloride	49.20		mg/L	50.0	98 ✓	90-110			
9056A	LCS 480-401749/4	Sulfate	51.10		mg/L	50.0	102 ✓	90-110			
Batch ID: 402716 Date: 03/06/2018 13:05			LCS Source: FE 200ppm ICV_00007								
SM 3500 FE D	LCS 480-402716/4	Ferrous Iron	1.80		mg/L	2.00	90 ✓	90-110			
Batch ID: 401560 Date: 02/26/2018 12:45			LCS Source: Sulfide LCS_00195								
SM 4500 S2 F	LCS 480-401560/4	Sulfide	9.20		mg/L	9.00	102 ✓	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-129748

Sampled 01/02/2018 and 01/03/2018

VOLATILE ORGANICS

LBA-SBW-15	(480-129748-1)
DUPLICATE	(480-129748-2)
LBA-SBW-16	(480-129748-3)
ML-2S	(480-129748-4)
ML-2I	(480-129748-5)
ML-2D	(480-129748-6)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for six groundwater samples was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Method 8260 addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) were used as a technical reference.

The acetone and 2-butanone concentrations found in ML-2D have been qualified as estimations because they may represent laboratory artifacts.

The cis-1,2-dichloroethene concentration found in ML-2S has been qualified as an estimation due to a high spiked sample recovery.

The acetone result from ML-2D has been qualified as an estimation due to high spiked blank recoveries.

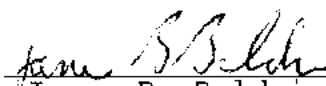
CORRECTNESS AND USABILITY

Although requested, 1,4-dioxane was not reported from the VOC samples in this delivery group.

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL Inc.

Date:

19 Oct 18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Unpreserved VOC samples within 7 days.

This delivery group contained six groundwater samples that were collected from the Former Emerson Street Landfill Site on 02Jan18 and 03Jan18. The samples were shipped to the laboratory, via FedEx, on 04Jan18 and were received the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. A cooler temperature of 2.0°C was recorded at the time of receipt.

Although proper sample preservation was not documented in the field custody record, a reading between pH=3 and pH=7 was recorded for the VOC samples of LBA-SBW-15, DUPE, LBA-SBW-16 and ML-2S. This issue, however, warrants no concern because each of these samples was analyzed within the holding time limitation for unpreserved samples. ML-2I and ML-2D produced acceptable readings of pH<2.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics between 05Jan18 and 08Jan18. The integrity of these samples has been previously addressed.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Three method blanks were analyzed with this group of samples. Each of these blanks demonstrated acceptable chromatography and was free of targeted analyte contamination.

Although not detected in the associated blanks, 2-butanone and acetone were detected in ML-2D. These concentrations have been qualified as estimations because low levels of acetone and 2-butanone frequently represent laboratory artifacts. Acetone and 2-butanone (MEX) could not be removed from the affected sample report because they were not found in the associated blanks.

MS Tuning

Mass spectrometer tuning and performance criteria are established

to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations for VOC were performed on 01DEC17 and 28Dec17. Standards of 0.4, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during both of these calibrations.

Calibration check standards were analyzed on 05Jan18, 07Jan18 and 08Jan18, prior to the twelve-hour periods of instrument operation that included samples from this program. When compared to the initial calibrations, each targeted analyte demonstrated an acceptable level of instrument stability during each of these checks.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

LBA-SBW-15 and ML-2S were selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of these samples. The recoveries reported from LBA-SBW-15 included high results for acetone (142%,151%). ML-2S produced low recoveries of cis-1,2-dichloroethene (65%,54%). The positive bias indicated by the high recoveries of acetone warrants no concern because acetone was not detected in LBA-SBW-15. The cis-1,2-dichloroethene (12DCE) concentration found in ML-2S has been qualified as an estimation.

Three spiked blanks (LCS) were also analyzed with this group of samples. The recoveries reported from these LCS samples included high results for acetone (152%,188%). The acetone concentration found in ML-2D has been qualified as an estimation based on this indication of positive bias.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

Sampled 1/2/2018 and 1/3/2018

	BLANK ACETONE	BLANK MEK	SPIKE 12DCE	SPK BLK ACETONE
LAB-SBW-15	(480-129748-1)			
DUPLICATE	(480-129748-2)			
LBA-SBW-16	(480-129748-3)			
ML-2S	(480-129748-4)		560J	
ML-2I	(480-129748-5)			
ML-2D	(480-129748-6)	10J	2.8J	10J

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-129748-1
 Matrix: Water Lab File ID: N6116.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 02:37
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31
75-34-3	1,1-Dichloroethane	73	J	100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND	* F1	1000	300
71-43-2	Benzene	48	J	100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	240		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	3600		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-129748-1
 Matrix: Water Lab File ID: N6116.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 02:37
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	ND		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride -	1600		100	90
1330-20-7	Xylenes, Total	ND		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

705

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-15 Lab Sample ID: 480-129748-1
 Matrix: Water Lab File ID: N6116.D
 Analysis Method: 8260C Date Collected: 01/02/2018 10:45
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 02:37
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-129748-2
 Matrix: Water Lab File ID: N6117.D
 Analysis Method: 8260C Date Collected: 01/02/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 01/08/2018 03:04
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31
75-34-3	1,1-Dichloroethane	73	J	100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND	*	1000	300
71-43-2	Benzene	54	J	100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	230		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	3600		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-129748-2
 Matrix: Water Lab File ID: N6117.D
 Analysis Method: 8260C Date Collected: 01/02/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:04
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	ND		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	1600		100	90
1330-20-7	Xylenes, Total	ND		200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo	Job No.: 480-129748-2
SDG No.:	
Client Sample ID: DUPE	Lab Sample ID: 480-129748-2
Matrix: Water	Lab File ID: N6117.D
Analysis Method: 8260C	Date Collected: 01/02/2018 00:00
Sample wt/vol: 5 (mL)	Date Analyzed: 01/08/2018 03:04
Soil Aliquot Vol:	Dilution Factor: 100
Soil Extract Vol.:	GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture:	Level: (low/med) Low
Analysis Batch No.: 394763	Units: ug/L
Number TICs Found: 0	TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

JK

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-129748-3
 Matrix: Water Lab File ID: N6118.D
 Analysis Method: 8260C Date Collected: 01/02/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:31
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20		10	3.1
75-34-3	1,1-Dichloroethane	53		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND	*	100	30
71-43-2	Benzene	15		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	9.4	J	10	3.2
67-56-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	710		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	7.8	J	10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	22		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-129748-3
 Matrix: Water Lab File ID: N6118.D
 Analysis Method: 8260C Date Collected: 01/02/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:31
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	20		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	11		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	5.3	J	10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	440		10	9.0
1330-20-7	Xylenes, Total	260		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: LBA-SBW-16 Lab Sample ID: 480-129748-3
 Matrix: Water Lab File ID: N6118.D
 Analysis Method: 8260C Date Collected: 01/02/2018 14:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 03:31
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394763 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound				None

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-129748-4
 Matrix: Water Lab File ID: T3685.D
 Analysis Method: 8260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 20:48
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	25		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	560	<i>PJ</i>	10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	13		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	46		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2S Lab Sample ID: 480-129748-4
 Matrix: Water Lab File ID: T3685.D
 Analysis Method: B260C Date Collected: 01/02/2018 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/05/2018 20:48
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394701 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	13
1634-04-4	Methyl tert-butyl ether	39		10	1.6
108-87-2	Methylcyclohexane	2.4	J	10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	220		10	9.0
1330-20-7	Xylenes, Total	620	F1	20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-129748-2</u>
SDG No.: _____	_____
Client Sample ID: <u>ML-2S</u>	Lab Sample ID: <u>480-129748-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>T3685.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>01/02/2018 15:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>01/05/2018 20:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>10</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>394701</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

RS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-129748-2</u>
SDG No.: _____	
Client Sample ID: <u>ML-21</u>	Lab Sample ID: <u>480-129748-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>N6130.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>01/03/2018 10:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>01/08/2018 12:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>100</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>394793</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	82
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	21
79-00-5	1,1,2-Trichloroethane	ND		100	23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	140		100	31
75-34-3	1,1-Dichloroethane	2200		100	38
75-35-4	1,1-Dichloroethene	ND		100	29
120-82-1	1,2,4-Trichlorobenzene	ND		100	41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	39
95-50-1	1,2-Dichlorobenzene	ND		100	79
107-06-2	1,2-Dichloroethane	ND		100	21
78-87-5	1,2-Dichloropropane	ND		100	72
541-73-1	1,3-Dichlorobenzene	ND		100	78
106-46-7	1,4-Dichlorobenzene	ND		100	84
78-93-3	2-Butanone (MEK)	ND		1000	130
591-78-6	2-Hexanone	ND		500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	210
67-64-1	Acetone	ND	*	1000	300
71-43-2	Benzene	ND		100	41
75-27-4	Bromodichloromethane	ND		100	39
75-25-2	Bromoform	ND		100	26
74-83-9	Bromomethane	ND		100	69
75-15-0	Carbon disulfide	ND		100	19
56-23-5	Carbon tetrachloride	ND		100	27
108-90-7	Chlorobenzene	ND		100	75
124-48-1	Dibromochloromethane	ND		100	32
75-00-3	Chloroethane	ND		100	32
67-66-3	Chloroform	ND		100	34
74-87-3	Chloromethane	ND		100	35
156-59-2	cis-1,2-Dichloroethene	6700		100	81
10061-01-5	cis-1,3-Dichloropropene	ND		100	36
110-82-7	Cyclohexane	ND		100	18
75-71-8	Dichlorodifluoromethane	ND		100	68
100-41-4	Ethylbenzene	ND		100	74
106-93-4	1,2-Dibromoethane	ND		100	73
98-82-8	Isopropylbenzene	ND		100	79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-129748-5
 Matrix: Water Lab File ID: N6130.D
 Analysis Method: 8260C Date Collected: 01/03/2018 10:30
 Sample wt/vol: 5(mL) Date Analyzed: 01/08/2018 12:57
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		250	130
1634-04-4	Methyl tert-butyl ether	ND		100	16
108-87-2	Methylcyclohexane	ND		100	16
75-09-2	Methylene Chloride	ND		100	44
100-42-5	Styrene	ND		100	73
127-18-4	Tetrachloroethene	ND		100	36
108-88-3	Toluene	510		100	51
156-60-5	trans-1,2-Dichloroethene	ND		100	90
10061-02-6	trans-1,3-Dichloropropene	ND		100	37
79-01-6	Trichloroethene	ND		100	46
75-69-4	Trichlorofluoromethane	ND		100	88
75-01-4	Vinyl chloride	2300		100	90
1330-20-7	Xylenes, Total	110	J	200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2I Lab Sample ID: 480-129748-5
 Matrix: Water Lab File ID: N6130.D
 Analysis Method: 8260C Date Collected: 01/03/2018 10:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 12:57
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 590

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
354-23-4	Ethane, 1,2-dichloro-1,1,2-trifluoro-	2.52	590	T J N	93%

TS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-129748-6
 Matrix: Water Lab File ID: N6131.D
 Analysis Method: 8260C Date Collected: 01/03/2018 12:30
 Sample wt/vol: 5(mL) Date Analyzed: 01/08/2018 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	35		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24		2.0	0.62
75-34-3	1,1-Dichloroethane	140		2.0	0.76
75-35-4	1,1-Dichloroethene	2.2		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	2.8	J	20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	10	J	20	6.0
71-43-2	Benzene	2.3		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	15		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	150		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

M/S

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-129748-6
 Matrix: Water Lab File ID: N6131.D
 Analysis Method: 8260C Date Collected: 01/03/2018 12:30
 Sample wt/vol: 5(mL) Date Analyzed: 01/08/2018 13:24
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	0.87	J	2.0	0.32
108-87-2	Methylcyclohexane	0.36	J	2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	2.0		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	4.1		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	16		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	130		2.0	1.8
1330-20-7	Xylenes, Total	1.6	J	4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

2015

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Client Sample ID: ML-2D Lab Sample ID: 480-129748-6
 Matrix: Water Lab File ID: N6131.D
 Analysis Method: 8260C Date Collected: 01/03/2018 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 01/08/2018 13:24
 Soil Aliquot Vol.: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 394793 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 9.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.52	9.2	T J	

TJ

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
LBA-SBW-15	480-129748-1	102 ✓	99 ✓	100 ✓	103 ✓
DUPE	480-129748-2	104	101	97	102
LBA-SBW-16	480-129748-3	103	104	96	101
ML-2S	480-129748-4	107	106	94	109
ML-2I	480-129748-5	104	101	99	102
ML-2D	480-129748-6	105	104	97	102
	MB 480-394701/7	98	98	89	103
	MB 480-394763/6	103	100	96	99
	MB 480-394793/7	102	101	98	101
	LCS 480-394701/5	107	99	95	110
	LCS 480-394763/4	101	99	97	100
	LCS 480-394793/5	103	100	98	104
LBA-SBW-15 MS	480-129748-1 MS	100	97	99	105
ML-2S MS	480-129748-4 MS	101	100	93	107
LBA-SBW-15 MSD	480-129748-1 MSD	105	100	97	102
ML-2S MSD	480-129748-4 MSD	108	101	93	115

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3681.D
 Lab ID: LCS 480-394701/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	29.9	120	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.6	86	76-120	
1,1,2-Trichloroethane	25.0	24.8	99	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.1	120	61-148	
1,1-Dichloroethane	25.0	25.1	100	77-120	
1,1-Dichloroethene	25.0	27.9	112	66-127	
1,2,4-Trichlorobenzene	25.0	25.6	102	79-122	
1,2-Dibromo-3-Chloropropane	25.0	26.9	108	56-134	
1,2-Dichlorobenzene	25.0	25.8	103	80-124	
1,2-Dichloroethane	25.0	26.2	105	75-120	
1,2-Dichloropropane	25.0	24.3	97	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	25.6	102	80-120	
2-Butanone (MEK)	125	116	92	57-140	
2-Hexanone	125	101	81	65-127	
4-Methyl-2-pentanone (MIBK)	125	105	84	71-125	
Acetone	125	120	96	56-142	
Benzene	25.0	26.0	104	71-124	
Bromodichloromethane	25.0	28.0	112	80-122	
Bromoform	25.0	28.5	114	61-132	
Bromomethane	25.0	27.6	110	55-144	
Carbon disulfide	25.0	25.7	103	59-134	
Carbon tetrachloride	25.0	32.1	128	72-134	
Chlorobenzene	25.0	25.3	101	80-120	
Dibromochloromethane	25.0	27.9	111	75-125	
Chloroethane	25.0	24.6	98	69-136	
Chloroform	25.0	27.8	111	73-127	
Chloromethane	25.0	21.9	88	68-124	
cis-1,2-Dichloroethene	25.0	27.9	112	74-124	
cis-1,3-Dichloropropene	25.0	27.1	109	74-124	
Cyclohexane	25.0	23.6	94	59-135	
Dichlorodifluoromethane	25.0	27.6	110	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
1,2-Dibromoethane	25.0	26.0	104	77-120	
Isopropylbenzene	25.0	24.0	96	77-122	
Methyl acetate	50.0	46.4	93	74-133	
Methyl tert-butyl ether	25.0	26.8	107	77-120	
Methylcyclohexane	25.0	27.0	108	68-134	
Methylene Chloride	25.0	25.0	100	75-124	
Styrene	25.0	25.2	101	80-120	
Tetrachloroethene	25.0	29.9	120	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3681.D
 Lab ID: LCS 480-394701/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	25.9	104	80-122	
trans-1,2-Dichloroethene	25.0	28.9	116	73-127	
trans-1,3-Dichloropropene	25.0	24.6	98	80-120	
Trichloroethene	25.0	28.6	114	74-123	
Trichlorofluoromethane	25.0	28.2	113	62-150	
Vinyl chloride	25.0	22.7	91	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: N6098.D

Lab ID: LCS 480-394763/4

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.8	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.9	104	76-120	
1,1,2-Trichloroethane	25.0	26.1	104	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2	109	61-148	
1,1-Dichloroethane	25.0	25.3	101	77-120	
1,1-Dichloroethene	25.0	25.1	101	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	25.6	102	56-134	
1,2-Dichlorobenzene	25.0	26.0	104	80-124	
1,2-Dichloroethane	25.0	25.4	102	75-120	
1,2-Dichloropropane	25.0	27.0	108	76-120	
1,3-Dichlorobenzene	25.0	25.9	104	77-120	
1,4-Dichlorobenzene	25.0	25.4	102	80-120	
2-Butanone (MEK)	125	149	119	57-140	
2-Hexanone	125	131	105	65-127	
4-Methyl-2-pentanone (MIBK)	125	137	110	71-125	
Acetone	125	190	152	56-142	*
Benzene	25.0	26.6	106	71-124	
Bromodichloromethane	25.0	27.1	108	80-122	
Bromoform	25.0	27.8	111	61-132	
Bromomethane	25.0	24.6	98	55-144	
Carbon disulfide	25.0	24.6	99	59-134	
Carbon tetrachloride	25.0	28.1	112	72-134	
Chlorobenzene	25.0	25.4	101	80-120	
Dibromochloromethane	25.0	27.8	111	75-125	
Chloroethane	25.0	23.5	94	69-136	
Chloroform	25.0	25.1	100	73-127	
Chloromethane	25.0	20.8	83	68-124	
cis-1,2-Dichloroethene	25.0	26.1	104	74-124	
cis-1,3-Dichloropropene	25.0	28.5	114	74-124	
Cyclohexane	25.0	24.7	99	59-135	
Dichlorodifluoromethane	25.0	22.9	91	59-135	
Ethylbenzene	25.0	25.0	100	77-123	
1,2-Dibromoethane	25.0	26.6	106	77-120	
Isopropylbenzene	25.0	25.8	103	77-122	
Methyl acetate	50.0	56.2	112	74-133	
Methyl tert-butyl ether	25.0	27.1	108	77-120	
Methylcyclohexane	25.0	27.0	108	68-134	
Methylene Chloride	25.0	25.0	100	75-124	
Styrene	25.0	26.0	104	80-120	
Tetrachloroethene	25.0	26.8	107	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6098.D
 Lab ID: LCS 480-394763/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	25.2	101	80-122	
trans-1,2-Dichloroethene	25.0	26.3	105	73-127	
trans-1,3-Dichloropropene	25.0	26.5	106	80-120	
Trichloroethene	25.0	26.7	107	74-123	
Trichlorofluoromethane	25.0	24.0	96	62-150	
Vinyl chloride	25.0	23.2	93	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: N6125.D

Lab ID: LCS 480-394793/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.1	108	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.3	101	76-120	
1,1,2-Trichloroethane	25.0	25.9	104	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.5	110	61-148	
1,1-Dichloroethane	25.0	25.5	102	77-120	
1,1-Dichloroethene	25.0	25.1	100	66-127	
1,2,4-Trichlorobenzene	25.0	26.0	104	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.8	95	56-134	
1,2-Dichlorobenzene	25.0	26.4	106	80-124	
1,2-Dichloroethane	25.0	25.1	100	75-120	
1,2-Dichloropropane	25.0	26.7	107	76-120	
1,3-Dichlorobenzene	25.0	27.2	109	77-120	
1,4-Dichlorobenzene	25.0	25.7	103	80-120	
2-Butanone (MEK)	125	158	126	57-140	
2-Hexanone	125	135	108	65-127	
4-Methyl-2-pentanone (MIBK)	125	132	106	71-125	
Acetone	125	236	189	56-142	*
Benzene	25.0	26.4	106	71-124	
Bromodichloromethane	25.0	26.7	107	80-122	
Bromoform	25.0	26.1	104	61-132	
Bromomethane	25.0	26.2	105	55-144	
Carbon disulfide	25.0	25.2	101	59-134	
Carbon tetrachloride	25.0	29.0	116	72-134	
Chlorobenzene	25.0	25.8	103	80-120	
Dibromochloromethane	25.0	27.0	108	75-125	
Chloroethane	25.0	25.6	102	69-136	
Chloroform	25.0	24.9	99	73-127	
Chloromethane	25.0	22.6	90	68-124	
cis-1,2-Dichloroethene	25.0	25.9	104	74-124	
cis-1,3-Dichloropropene	25.0	27.9	112	74-124	
Cyclohexane	25.0	27.4	109	59-135	
Dichlorodifluoromethane	25.0	27.7	111	59-135	
Ethylbenzene	25.0	26.3	105	77-123	
1,2-Dibromoethane	25.0	26.1	105	77-120	
Isopropylbenzene	25.0	26.7	107	77-122	
Methyl acetate	50.0	52.0	104	74-133	
Methyl tert-butyl ether	25.0	25.8	103	77-120	
Methylcyclohexane	25.0	28.7	115	68-134	
Methylene Chloride	25.0	21.7	87	75-124	
Styrene	25.0	26.8	107	80-120	
Tetrachloroethene	25.0	28.2	113	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6125.D
 Lab ID: LCS 480-394793/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	25.9	104	80-122	
trans-1,2-Dichloroethene	25.0	26.6	106	73-127	
trans-1,3-Dichloropropene	25.0	26.3	105	80-120	
Trichloroethene	25.0	27.2	109	74-123	
Trichlorofluoromethane	25.0	28.1	112	62-150	
Vinyl chloride	25.0	26.1	104	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.:

Matrix: Water

Level: Low

Lab File ID: N6119.D

Lab ID: 480-129748-1 MS

Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	ND	2730	109	73-126	
1,1,2,2-Tetrachloroethane	2500	ND	2550	102	76-120	
1,1,2-Trichloroethane	2500	ND	2570	103	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	ND	2870	115	61-148	
1,1-Dichloroethane	2500	73 J	2610	102	77-120	
1,1-Dichloroethene	2500	ND	2720	109	66-127	
1,2,4-Trichlorobenzene	2500	ND	2540	101	79-122	
1,2-Dibromo-3-Chloropropane	2500	ND	2470	99	56-134	
1,2-Dichlorobenzene	2500	ND	2590	104	80-124	
1,2-Dichloroethane	2500	ND	2470	99	75-120	
1,2-Dichloropropane	2500	ND	2650	106	76-120	
1,3-Dichlorobenzene	2500	ND	2610	105	77-120	
1,4-Dichlorobenzene	2500	ND	2540	101	78-124	
2-Butanone (MEK)	12500	ND	14500	116	57-140	
2-Hexanone	12500	ND	13100	105	65-127	
4-Methyl-2-pentanone (MIBK)	12500	ND	13500	108	71-125	
Acetone	12500	ND	17700	142	56-142	
Benzene	2500	48 J	2680	105	71-124	
Bromodichloromethane	2500	ND	2590	104	80-122	
Bromoform	2500	ND	2560	102	61-132	
Bromomethane	2500	ND	2680	107	55-144	
Carbon disulfide	2500	ND	2560	102	59-134	
Carbon tetrachloride	2500	ND	2920	117	72-134	
Chlorobenzene	2500	ND	2640	106	80-120	
Dibromochloromethane	2500	ND	2660	106	75-125	
Chloroethane	2500	240	2900	106	69-136	
Chloroform	2500	ND	2540	102	73-127	
Chloromethane	2500	ND	2400	96	68-124	
cis-1,2-Dichloroethene	2500	3600	6280	109	74-124	
cis-1,3-Dichloropropene	2500	ND	2590	104	74-124	
Cyclohexane	2500	ND	2620	105	59-135	
Dichlorodifluoromethane	2500	ND	2690	108	59-135	
Ethylbenzene	2500	ND	2620	105	77-123	
1,2-Dibromoethane	2500	ND	2700	108	77-120	
Isopropylbenzene	2500	ND	2660	107	77-122	
Methyl acetate	5000	ND	5290	106	74-133	
Methyl tert-butyl ether	2500	ND	2580	103	77-120	
Methylcyclohexane	2500	ND	2740	110	68-134	
Methylene Chloride	2500	ND	2570	103	75-124	
Styrene	2500	ND	2720	109	80-120	
Tetrachloroethene	2500	ND	2780	111	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6119.D
 Lab ID: 480-129748-1 MS Client ID: LBA-SBW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS / QC		#
				% REC	LIMITS REC	
Toluene	2500	ND	2690	108 ✓	80-122	
trans-1,2-Dichloroethene	2500	ND	2710	109	73-127	
trans-1,3-Dichloropropene	2500	ND	2540	101	80-120	
Trichloroethene	2500	ND	2650	106 ✓	74-123	
Trichlorofluoromethane	2500	ND	2780	111	62-150	
Vinyl chloride	2500	1600	4310	109	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.:

Matrix: Water

Level: Low

Lab File ID: T3700.D

Lab ID: 480-129748-4 MS

Client ID: ML-2S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	250	ND	271	108	73-126	
1,1,2,2-Tetrachloroethane	250	ND	202	81	76-120	
1,1,2-Trichloroethane	250	ND	223	89	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	ND	249	100	61-148	
1,1-Dichloroethane	250	ND	225	90	77-120	
1,1-Dichloroethene	250	ND	243	97	66-127	
1,2,4-Trichlorobenzene	250	ND	241	96	79-122	
1,2-Dibromo-3-Chloropropane	250	ND	231	92	56-134	
1,2-Dichlorobenzene	250	ND	242	97	80-124	
1,2-Dichloroethane	250	ND	244	98	75-120	
1,2-Dichloropropane	250	ND	214	86	76-120	
1,3-Dichlorobenzene	250	ND	246	98	77-120	
1,4-Dichlorobenzene	250	ND	245	98	78-124	
2-Butanone (MEK)	1250	ND	958	77	57-140	
2-Hexanone	1250	ND	869	70	65-127	
4-Methyl-2-pentanone (MIBK)	1250	ND	927	74	71-125	
Acetone	1250	ND	982	79	56-142	
Benzene	250	25	258	93	71-124	
Bromodichloromethane	250	ND	240	96	80-122	
Bromoform	250	ND	243	97	61-132	
Bromomethane	250	ND	270	108	55-144	
Carbon disulfide	250	ND	229	92	59-134	
Carbon tetrachloride	250	ND	276	110	72-134	
Chlorobenzene	250	ND	233	93	80-120	
Dibromochloromethane	250	ND	230	92	75-125	
Chloroethane	250	ND	243	97	69-136	
Chloroform	250	ND	246	99	73-127	
Chloromethane	250	ND	222	89	68-124	
cis-1,2-Dichloroethene	250	560	719	65	74-124	F1
cis-1,3-Dichloropropene	250	ND	230	92	74-124	
Cyclohexane	250	ND	212	85	59-135	
Dichlorodifluoromethane	250	ND	290	116	59-135	
Ethylbenzene	250	13	234	88	77-123	
1,2-Dibromoethane	250	ND	231	92	77-120	
Isopropylbenzene	250	46	268	89	77-122	
Methyl acetate	500	ND	385	77	74-133	
Methyl tert-butyl ether	250	39	270	92	77-120	
Methylcyclohexane	250	2.4 J	239	95	68-134	
Methylene Chloride	250	ND	244	98	75-124	
Styrene	250	ND	225	90	80-120	
Tetrachloroethene	250	ND	276	111	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3700.D
 Lab ID: 480-129748-4 MS Client ID: ML-2S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS	QC	#
				% REC	LIMITS REC	
Toluene	250	ND	229	92	80-122	
trans-1,2-Dichloroethene	250	ND	258	103	73-127	
trans-1,3-Dichloropropene	250	ND	212	85	80-120	
Trichloroethene	250	ND	249	100	74-123	
Trichlorofluoromethane	250	ND	299	120	62-150	
Vinyl chloride	250	220	441	90	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: N6120.D

Lab ID: 480-129748-1 MSD

Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	2500	2690	108	1	15	73-126	
1,1,2,2-Tetrachloroethane	2500	2490	99	2	15	76-120	
1,1,2-Trichloroethane	2500	2500	100	3	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2800	112	3	20	61-148	
1,1-Dichloroethane	2500	2630	102	1	20	77-120	
1,1-Dichloroethene	2500	2600	104	4	16	66-127	
1,2,4-Trichlorobenzene	2500	2660	106	5	20	79-122	
1,2-Dibromo-3-Chloropropane	2500	2450	98	1	15	56-134	
1,2-Dichlorobenzene	2500	2640	106	2	20	80-124	
1,2-Dichloroethane	2500	2450	98	1	20	75-120	
1,2-Dichloropropane	2500	2650	106	0	20	76-120	
1,3-Dichlorobenzene	2500	2610	104	0	20	77-120	
1,4-Dichlorobenzene	2500	2490	100	2	20	78-124	
2-Butanone (MEK)	12500	14700	117	1	20	57-140	
2-Hexanone	12500	12600	101	4	15	65-127	
4-Methyl-2-pentanone (MIBK)	12500	13100	105	3	35	71-125	
Acetone	12500	18900	151	7	15	56-142	F1
Benzene	2500	2630	103	2	13	71-124	
Bromodichloromethane	2500	2650	106	2	15	80-122	
Bromoform	2500	2450	98	4	15	61-132	
Bromomethane	2500	2640	106	1	15	55-144	
Carbon disulfide	2500	2480	99	3	15	59-134	
Carbon tetrachloride	2500	2730	109	7	15	72-134	
Chlorobenzene	2500	2540	102	4	25	80-120	
Dibromochloromethane	2500	2660	107	0	15	75-125	
Chloroethane	2500	2840	104	2	15	69-136	
Chloroform	2500	2500	100	2	20	73-127	
Chloromethane	2500	2350	94	2	15	68-124	
cis-1,2-Dichloroethene	2500	6060	100	4	15	74-124	
cis-1,3-Dichloropropene	2500	2610	104	1	15	74-124	
Cyclohexane	2500	2480	99	6	20	59-135	
Dichlorodifluoromethane	2500	2490	100	8	20	59-135	
Ethylbenzene	2500	2490	100	5	15	77-123	
1,2-Dibromoethane	2500	2590	104	4	15	77-120	
Isopropylbenzene	2500	2590	104	3	20	77-122	
Methyl acetate	5000	5310	106	0	20	74-133	
Methyl tert-butyl ether	2500	2590	103	0	37	77-120	
Methylcyclohexane	2500	2610	104	5	20	68-134	
Methylene Chloride	2500	2290	92	12	15	75-124	
Styrene	2500	2610	104	4	20	80-120	
Tetrachloroethene	2500	2660	106	4	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N6120.D
 Lab ID: 480-129748-1 MSD Client ID: LBA-SBW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Toluene	2500	2530	101	6	15	80-122	
trans-1,2-Dichloroethene	2500	2660	107	2	20	73-127	
trans-1,3-Dichloropropene	2500	2460	99	3	15	80-120	
Trichloroethene	2500	2640	106	0	16	74-123	
Trichlorofluoromethane	2500	2580	103	7	20	62-150	
Vinyl chloride	2500	4110	101	5	15	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129748-2

SDG No.:

Matrix: Water

Level: Low

Lab File ID: T3701.D

Lab ID: 480-129748-4 MSD

Client ID: ML-2S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	250	266	106	2	15	73-126	
1,1,2,2-Tetrachloroethane	250	195	78	4	15	76-120	
1,1,2-Trichloroethane	250	234	94	5	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	250	276	110	10	20	61-148	
1,1-Dichloroethane	250	220	88	2	20	77-120	
1,1-Dichloroethene	250	245	98	1	16	66-127	
1,2,4-Trichlorobenzene	250	236	94	2	20	79-122	
1,2-Dibromo-3-Chloropropane	250	225	90	3	15	56-134	
1,2-Dichlorobenzene	250	232	93	4	20	80-124	
1,2-Dichloroethane	250	241	96	1	20	75-120	
1,2-Dichloropropane	250	215	86	1	20	76-120	
1,3-Dichlorobenzene	250	230	92	7	20	77-120	
1,4-Dichlorobenzene	250	233	93	5	20	78-124	
2-Butanone (MEK)	1250	993	79	4	20	57-140	
2-Hexanone	1250	891	71	2	15	65-127	
4-Methyl-2-pentanone (MIBK)	1250	937	75	1	35	71-125	
Acetone	1250	986	79	0	15	56-142	
Benzene	250	259	93	0	13	71-124	
Bromodichloromethane	250	249	100	4	15	80-122	
Bromoform	250	274	110	12	15	61-132	
Bromomethane	250	249	99	8	15	55-144	
Carbon disulfide	250	230	92	0	15	59-134	
Carbon tetrachloride	250	291	116	6	15	72-134	
Chlorobenzene	250	237	95	2	25	80-120	
Dibromochloromethane	250	258	103	11	15	75-125	
Chloroethane	250	244	98	1	15	69-136	
Chloroform	250	249	99	1	20	73-127	
Chloromethane	250	210	84	5	15	68-124	
cis-1,2-Dichloroethene	250	692	54	4	15	74-124	F1
cis-1,3-Dichloropropene	250	239	96	4	15	74-124	
Cyclohexane	250	210	84	1	20	59-135	
Dichlorodifluoromethane	250	281	112	3	20	59-135	
Ethylbenzene	250	244	92	4	15	77-123	
1,2-Dibromoethane	250	246	98	6	15	77-120	
Isopropylbenzene	250	255	84	5	20	77-122	
Methyl acetate	500	412	82	7	20	74-133	
Methyl tert-butyl ether	250	268	91	1	37	77-120	
Methylcyclohexane	250	231	91	3	20	68-134	
Methylene Chloride	250	243	97	0	15	75-124	
Styrene	250	226	90	0	20	80-120	
Tetrachloroethene	250	285	114	3	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3701.D
 Lab ID: 480-129748-4 MSD Client ID: ML-2S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Toluene	250	248	99 ✓	8	15	80-122	
trans-1,2-Dichloroethene	250	260	104	1	20	73-127	
trans-1,3-Dichloropropene	250	223	89	5	15	80-120	
Trichloroethene	250	252	101 ✓	1	16	74-123	
Trichlorofluoromethane	250	291	116	3	20	62-150	
Vinyl chloride	250	431	86	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: T3683.D Lab Sample ID: MB 480-394701/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5975T Date Analyzed: 01/05/2018 19:49
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-394701/5	T3681.D	01/05/2018 18:47
ML-2S	480-129748-4	T3685.D	01/05/2018 20:48
ML-2S MS	480-129748-4 MS	T3700.D	01/06/2018 02:43
ML-2S MSD	480-129748-4 MSD	T3701.D	01/06/2018 03:07

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6100.D Lab Sample ID: MB 480-394763/6
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 01/07/2018 19:12
 GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-394763/4	N6098.D	01/07/2018 18:18
LBA-SBW-15	480-129748-1	N6116.D	01/08/2018 02:37
DUPE	480-129748-2	N6117.D	01/08/2018 03:04
LBA-SBW-16	480-129748-3	N6118.D	01/08/2018 03:31
LBA-SBW-15 MS	480-129748-1 MS	N6119.D	01/08/2018 03:58
LBA-SBW-15 MSD	480-129748-1 MSD	N6120.D	01/08/2018 04:25

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6127.D Lab Sample ID: MB 480-394793/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973N Date Analyzed: 01/08/2018 11:14
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-394793/5	N6125.D	01/08/2018 10:20
ML-2I	480-129748-5	N6130.D	01/08/2018 12:57
ML-2D	480-129748-6	N6131.D	01/08/2018 13:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N5943.D BFB Injection Date: 12/28/2017
 Instrument ID: HP5973N BFB Injection Time: 14:51
 Analysis Batch No.: 393925

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	30.7	
75	30.0 - 60.0 % of mass 95	50.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	6.4	(7.2) 1
176	95.0 - 101.0 % of mass 174	87.3	(98.7) 1
177	5.0 - 9.0 % of mass 176	5.8	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-393925/6	N5945.D	12/28/2017	15:45
	IC 480-393925/7	N5946.D	12/28/2017	16:12
	IC 480-393925/8	N5947.D	12/28/2017	16:40
	IC 480-393925/9	N5948.D	12/28/2017	17:07
	IC 480-393925/10	N5949.D	12/28/2017	17:34
	ICIS 480-393925/11	N5950.D	12/28/2017	18:01
	IC 480-393925/12	N5951.D	12/28/2017	18:28
	IC 480-393925/13	N5952.D	12/28/2017	18:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6095.D BFB Injection Date: 01/07/2018
 Instrument ID: HP5973N BFB Injection Time: 17:00
 Analysis Batch No.: 394763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	30.3 ✓
75	30.0 - 60.0 % of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	93.0
175	5.0 - 9.0 % of mass 174	7.1 (7.7) 1
176	95.0 - 101.0 % of mass 174	90.0 (96.8) 1
177	5.0 - 9.0 % of mass 176	6.1 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-394763/2	N6096.D	01/07/2018	17:24
	LCS 480-394763/4	N6098.D	01/07/2018	18:18
	MB 480-394763/6	N6100.D	01/07/2018	19:12
LBA-SBW-15	480-129748-1	N6116.D	01/08/2018	02:37
DUPE	480-129748-2	N6117.D	01/08/2018	03:04
LBA-SBW-16	480-129748-3	N6118.D	01/08/2018	03:31
LBA-SBW-15 MS	480-129748-1 MS	N6119.D	01/08/2018	03:58
LBA-SBW-15 MSD	480-129748-1 MSD	N6120.D	01/08/2018	04:25 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: N6122.D BFB Injection Date: 01/08/2018
 Instrument ID: HP5973N BFB Injection Time: 08:59
 Analysis Batch No.: 394793

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.0	✓
75	30.0 - 60.0 % of mass 95	49.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	101.5	
175	5.0 - 9.0 % of mass 174	8.5	(8.4) 1
176	95.0 - 101.0 % of mass 174	100.6	(99.2) 1
177	5.0 - 9.0 % of mass 176	6.4	(6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-394793/3	N6123.D	01/08/2018	09:25
	LCS 480-394793/5	N6125.D	01/08/2018	10:20
	MB 480-394793/7	N6127.D	01/08/2018	11:14
ML-2I	480-129748-5	N6130.D	01/08/2018	12:57
ML-2D	480-129748-6	N6131.D	01/08/2018	13:24 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: T2457.D BFB Injection Date: 12/01/2017
 Instrument ID: HP5975T BFB Injection Time: 14:21
 Analysis Batch No.: 390101

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.9	
75	30.0 - 60.0 % of mass 95	47.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	75.2	
175	5.0 - 9.0 % of mass 174	6.0	(8.0) 1
176	95.0 - 101.0 % of mass 174	74.2	(98.7) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-390101/13	T2459.D	12/01/2017	15:10
	IC 480-390101/14	T2460.D	12/01/2017	15:33
	IC 480-390101/15	T2461.D	12/01/2017	15:57
	IC 480-390101/16	T2462.D	12/01/2017	16:20
	IC 480-390101/17	T2463.D	12/01/2017	16:44
	ICIS 480-390101/18	T2464.D	12/01/2017	17:07
	IC 480-390101/19	T2465.D	12/01/2017	17:31
	IC 480-390101/20	T2466.D	12/01/2017	17:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Lab File ID: T3678.D BFB Injection Date: 01/05/2018
 Instrument ID: HP5975T BFB Injection Time: 17:19
 Analysis Batch No.: 394701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.0	
75	30.0 - 60.0 % of mass 95	46.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	91.4	
175	5.0 - 9.0 % of mass 174	6.8	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.2	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-394701/3	T3679.D	01/05/2018	17:45
	LCS 480-394701/5	T3681.D	01/05/2018	18:47
	MB 480-394701/7	T3683.D	01/05/2018	19:49
ML-2S	480-129748-4	T3685.D	01/05/2018	20:48
ML-2S MS	480-129748-4 MS	T3700.D	01/06/2018	02:43
ML-2S MSD	480-129748-4 MSD	T3701.D	01/06/2018	03:07 ✓

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: ICIS 480-393925/11 Date Analyzed: 12/28/2017 18:01
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N5950.D Heated Purge: (Y/N) N
 Calibration ID: 32489

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	169856	5.41	662244	8.39	345492	10.78
UPPER LIMIT	339712	5.91	1324488	8.89	690984	11.28
LOWER LIMIT	84926	4.91	331122	7.89	172746	10.28
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-394763/2	190354	5.41 ✓	773388	8.39 ✓	419230	10.79 ✓
CCVIS 480-394793/3	177811	5.41	709733	8.39	376852	10.79

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: CCVIS 480-394763/2 Date Analyzed: 01/07/2018 17:24
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (um)
 Lab File ID (Standard): N6096.D Heated Purge: (Y/N) N
 Calibration ID: 32491

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	190354	5.41	773388	8.39	419230	10.79	
UPPER LIMIT	380708	5.91	1546776	8.89	838460	11.29	
LOWER LIMIT	95177	4.91	386694	7.89	209615	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-394763/4	182998	5.41	741868	8.39	401709	10.78	
MB 480-394763/6	173961	5.41	696305	8.39	361439	10.78	
480-129748-1	LBA-SBW-15	167923	5.41	659982	8.39	339993	10.78
480-129748-2	DUPE	165613	5.41	656918	8.39	349427	10.78
480-129748-3	LBA-SBW-16	163827	5.41	683234	8.39	359933	10.78
480-129748-1 MS	LBA-SBW-15 MS	173274	5.41	688853	8.39	373949	10.78
480-129748-1 MSD	LBA-SBW-15 MSD	172869	5.41	691548	8.39	364318	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: CCVIS 480-394793/3 Date Analyzed: 01/08/2018 09:25
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N6123.D Heated Purge: (Y/N) N
 Calibration ID: 32491

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	177811	5.41	709733	8.39	376852	10.79	
UPPER LIMIT	355622	5.91	1419466	8.89	753704	11.29	
LOWER LIMIT	88906	4.91	354867	7.89	188426	10.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-394793/5	180621	5.41	726069	8.39	387684	10.79	
ME 480-394793/7	177975	5.41	707862	8.39	368540	10.78	
480-129748-5	ML-2I	168364	5.41	686436	8.39	356386	10.79
480-129748-6	ML-2D	167288	5.41	690447	8.39	356659	10.78

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: ICIS 480-390101/18 Date Analyzed: 12/01/2017 17:07
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): T2464.D Heated Purge: (Y/N) N
 Calibration ID: 32266

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	140731	4.87	522268	7.17	287616	9.04
UPPER LIMIT	281462	5.37	1044536	7.67	575232	9.54
LOWER LIMIT	70366	4.37	261134	6.67	143808	8.54
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-394701/3	104129	4.87	421312	7.17	257233	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129748-2
 SDG No.: _____
 Sample No.: CCVIS 480-394701/3 Date Analyzed: 01/05/2018 17:45
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): T3679.D Heated Purge: (Y/N) N
 Calibration ID: 32269

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	104129	4.87	421312	7.17	257233	9.04	
UPPER LIMIT	208258	5.37	842624	7.67	514466	9.54	
LOWER LIMIT	52065	4.37	210656	6.67	128617	8.54	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-394701/5	107650	4.87	433439	7.17	272150	9.04	
MB 480-394701/7	110008	4.87	444281	7.17	267908	9.04	
480-129748-4	ML-2S	106354	4.87	431953	7.17	264390	9.04
480-129748-4 MS	ML-2S MS	111411	4.87	443598	7.17	261229	9.04
480-129748-4 MSD	ML-2S MSD	108009	4.87	421963	7.17	268144	9.04

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-129994

Sampled 01/09/2018

VOLATILE ORGANICS

ML-7S (480-129994-1)

TRIP BLANK (480-129994-2)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for one groundwater sample was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The sample, taken from the Former Emerson Street Landfill Site, was identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Method 8260, addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

The acetone and 2-butanone concentrations found in ML-7S have been qualified as estimations because they were obtained from measurements made beyond the range of calibration.

The methylene chloride concentration found in ML-7S has been qualified as an estimation because it may represent a laboratory artifact.

The presence of 2-hexanone in ML-7S could not be verified, based on the mass spectra references included in the raw data. 2-Hexanone should be interpreted as undetected in this sample.


CORRECTNESS AND USABILITY

Although specifically requested, 1,4-dioxane was not reported from the ML-7S.

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J", "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL Inc.

Date: 08Oct18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Unpreserved VOC samples within 7 days. Nitrate must be determined within one day and ferrous iron analyses should be performed in the field at the time of sample collection.

This delivery group contained one groundwater sample that was collected from the Former Emerson Street Landfill Site on 09Jan18. The sample was packaged with a trip blank and shipped to the laboratory, via FedEx, on 10Jan18. The shipment arrived the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. A cooler temperature of 3.6°C was recorded at the time of receipt.

Although custody seals were not found on the sample cooler, the lab indicated that the cooler was sealed with tape and showed no evidence of tampering.

Although proper sample preservation was not documented in the field custody record, a check made at the time of analysis verified that ML-7S was properly stabilized at a pH<2.

VOLATILE ORGANICS

ML-7S was analyzed for volatile organics on 15Jan18. The program holding time limitation was satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank and a trip blank were analyzed with ML-7S. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination.

Although not detected in the associated blanks, methylene chloride was found in ML-7S. This concentration has been qualified as an estimation because low levels of methylene chloride frequently represent laboratory artifacts. Methylene chloride (METH CL) could not be removed from the affected sample reports because it was not found in the associated blanks.

It is noted that high concentrations of acetone (210 µg/l) and 2-butanone (420 µg/l) were also found in ML-7S. These concentra-

tions, found in an undiluted sample, are felt to be too high to represent laboratory artifacts. The acetone and 2-butanone concentrations found in ML-7S have been left unqualified.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 10Jan18. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A calibration check standard was analyzed on 15Jan18, prior to the twelve-hour period of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and

response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although ML-7S was not selected for matrix spiking, a spiked blank (LCS) was analyzed with this group of samples. The recoveries reported for this LCS sample demonstrated an acceptable level of measurement accuracy.

It is noted that because a second spiked blank (LCSD) was not analyzed, an evaluation of measurement precision was not possible.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A field split duplicate sample was not included in this delivery group.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

The presence of 2-hexanone in ML-7S could not be verified, based on the mass spectra references included in the raw data. 2-Hexanone should be interpreted as undetected in this sample.

The concentrations of acetone and 2-butanone (MEK) found in ML-7S were obtained from measurements made well beyond the calibrated range of the laboratory's instrumentation. These concentrations have been qualified as estimations.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

SAMPLED: 01/09/2018

BLANK METH CL	SPECTRA ID 2-HEXANONE	CAL RANGE ACETONE	CAL RANGE MEK
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ML-7S TRIP BLANK (480-129994-1)	5.00	210J	420J
(480-129994-2)			

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-129994-1
 Matrix: Water Lab File ID: S6557.D
 Analysis Method: 8260C Date Collected: 01/09/2018 12:20
 Sample wt/vol: 5(mL) Date Analyzed: 01/15/2018 13:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK) -	420	J	10	1.3
591-78-6	2-Hexanone	5.0	L 20	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK) -	4.0	J	5.0	2.1
67-64-1	Acetone -	210	J	10	3.0
71-43-2	Benzene -	3.3		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide -	1.3		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane -	0.80	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene -	3.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene -	0.96	J	1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene -	2.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-129994-1
 Matrix: Water Lab File ID: S6557.D
 Analysis Method: 8260C Date Collected: 01/09/2018 12:20
 Sample wt/vol: 5(mL) Date Analyzed: 01/15/2018 13:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.36	J	1.0	0.16
108-87-2	Methylcyclohexane	0.35	J	1.0	0.16
75-09-2	Methylene Chloride	3.2	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	1.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	4.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: ML-7S Lab Sample ID: 480-129994-1
 Matrix: Water Lab File ID: S6557.D
 Analysis Method: 8260C Date Collected: 01/09/2018 12:20
 Sample wt/vol: 5(mL) Date Analyzed: 01/15/2018 13:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L
 Number TICs Found: 7 TIC Result Total: 783.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
75-07-0	Acetaldehyde	1.69	11	T J N	86%
1000221-95-9	Ethene, ethyloxy-	2.54	4.1	T J N	90%
	Unknown	3.05	14	T J	
	Unknown	4.74	710	T J	
108-93-0	Cyclohexanol	9.51	6.5	T J N	86%
108-94-1	Cyclohexanone	9.76	29	T J N	94%
	Unknown	11.14	8.7	T J	

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-129994-2
 Matrix: Water Lab File ID: S6558.D
 Analysis Method: 8260C Date Collected: 01/09/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 01/15/2018 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-129994-2
 Matrix: Water Lab File ID: S6558.D
 Analysis Method: 8260C Date Collected: 01/09/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 01/15/2018 14:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395763 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

785

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-129994-1</u>
SDG No.: _____	
Client Sample ID: <u>TRIP BLANK</u>	Lab Sample ID: <u>480-129994-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>S6558.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>01/09/2018 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>01/15/2018 14:00</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>395763</u>	Units: <u>ug/L</u>
Number TICs Found: <u>0</u>	TIC Result Total: <u>0</u>

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

7/15

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM # ✓	DCA # ✓	TOL # ✓	BFB # ✓
ML-7S	480-129994-1	109	101	104	111
TRIP BLANK	480-129994-2	106	101	104	108
	MB 480-395763/7	109	102	104	108
	LCS 480-395763/5	109	105	101	106

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-129994-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S6549.D

Lab ID: LCS 480-395763/5

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.0	104	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.3	93	76-120	
1,1,2-Trichloroethane	25.0	24.9	99	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	32.0	128	61-148	
1,1-Dichloroethane	25.0	26.7	107	77-120	
1,1-Dichloroethene	25.0	28.0	112	66-127	
1,2,4-Trichlorobenzene	25.0	25.0	100	79-122	
1,2-Dibromo-3-Chloropropane	25.0	22.5	90	56-134	
1,2-Dichlorobenzene	25.0	25.1	101	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	26.5	106	76-120	
1,3-Dichlorobenzene	25.0	24.9	100	77-120	
1,4-Dichlorobenzene	25.0	24.7	99	80-120	
2-Butanone (MEK)	125	139	111	57-140	
2-Hexanone	125	120	96	65-127	
4-Methyl-2-pentanone (MIBK)	125	122	97	71-125	
Acetone	125	133	106	56-142	
Benzene	25.0	26.4	106	71-124	
Bromodichloromethane	25.0	26.9	108	80-122	
Bromoform	25.0	28.5	114	61-132	
Bromomethane	25.0	25.2	101	55-144	
Carbon disulfide	25.0	26.3	105	59-134	
Carbon tetrachloride	25.0	27.5	110	72-134	
Chlorobenzene	25.0	25.5	102	80-120	
Dibromochloromethane	25.0	26.2	105	75-125	
Chloroethane	25.0	26.5	106	69-136	
Chloroform	25.0	26.2	105	73-127	
Chloromethane	25.0	26.3	105	68-124	
cis-1,2-Dichloroethene	25.0	26.4	106	74-124	
cis-1,3-Dichloropropene	25.0	27.3	109	74-124	
Cyclohexane	25.0	28.2	113	59-135	
Dichlorodifluoromethane	25.0	29.8	119	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
1,2-Dibromoethane	25.0	25.4	102	77-120	
Isopropylbenzene	25.0	24.1	96	77-122	
Methyl acetate	50.0	52.3	105	74-133	
Methyl tert-butyl ether	25.0	25.3	101	77-120	
Methylcyclohexane	25.0	28.8	115	68-134	
Methylene Chloride	25.0	24.1	96	75-124	
Styrene	25.0	25.7	103	80-120	
Tetrachloroethene	25.0	27.1	108	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S6549.D
 Lab ID: LCS 480-395763/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	24.4	98	80-122	
trans-1,2-Dichloroethene	25.0	26.8	107	73-127	
trans-1,3-Dichloropropene	25.0	25.5	102	80-120	
Trichloroethene	25.0	25.6	102	74-123	
Trichlorofluoromethane	25.0	28.5	114	62-150	
Vinyl chloride	25.0	27.6	110	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
SDG No.: _____
Lab File ID: S6551.D Lab Sample ID: MB 480-395763/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 01/15/2018 10:52
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB	
		FILE ID	DATE ANALYZED
	LCS 480-395763/5	S6549.D	01/15/2018 10:06
ML-7S	480-129994-1	S6557.D	01/15/2018 13:36
TRIP BLANK	480-129994-2	S6558.D	01/15/2018 14:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab File ID: S6361.D BFB Injection Date: 01/09/2018
 Instrument ID: HP5973S BFB Injection Time: 23:52
 Analysis Batch No.: 395114

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	46.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.1	(0.1) 1
174	50.0 - 120.00 % of mass 95	84.1	
175	5.0 - 9.0 % of mass 174	6.7	(8.0) 1
176	95.0 - 101.0 % of mass 174	84.2	(100.1) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-395114/4	S6363.D	01/10/2018	00:42
	IC 480-395114/5	S6364.D	01/10/2018	01:05
	IC 480-395114/6	S6365.D	01/10/2018	01:28
	IC 480-395114/7	S6366.D	01/10/2018	01:51
	IC 480-395114/8	S6367.D	01/10/2018	02:15
	ICIS 480-395114/9	S6368.D	01/10/2018	02:38
	IC 480-395114/10	S6369.D	01/10/2018	03:01
	IC 480-395114/11	S6370.D	01/10/2018	03:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Lab File ID: S6546.D BFB Injection Date: 01/15/2018
 Instrument ID: HP5973S BFB Injection Time: 08:38
 Analysis Batch No.: 395763

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	✓
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	50.0 - 120.00 % of mass 95	95.8	
175	5.0 - 9.0 % of mass 174	7.2	(7.5) 1
176	95.0 - 101.0 % of mass 174	93.6	(97.7) 1
177	5.0 - 9.0 % of mass 176	6.3	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-395763/3	S6547.D	01/15/2018	09:19
	LCS 480-395763/5	S6549.D	01/15/2018	10:06
	MB 480-395763/7	S6551.D	01/15/2018	10:52
ML-7S	480-129994-1	S6557.D	01/15/2018	13:36
TRIP BLANK	480-129994-2	S6558.D	01/15/2018	14:00 ✓

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Sample No.: ICIS 480-395114/9 Date Analyzed: 01/10/2018 02:38
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S6368.D Heated Purge: (Y/N) N
 Calibration ID: 32523

	FB		CBNzd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	166664	5.55	342336	8.55	365955	10.92
UPPER LIMIT	333328	6.05	684672	9.05	731910	11.42
LOWER LIMIT	83332	5.05	171168	8.05	182978	10.42
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-395763/3	146224	5.55	311253	8.55	362560	10.92

FB = Fluorobenzene (IS)
 CBNzd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129994-1
 SDG No.: _____
 Sample No.: CCVIS 480-395763/3 Date Analyzed: 01/15/2018 09:19
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): S6547.D Heated Purge: (Y/N) N
 Calibration ID: 32526

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	146224	5.55	311253	8.55	362560	10.92	
UPPER LIMIT	292448	6.05	622506	9.05	725120	11.42	
LOWER LIMIT	73112	5.05	155627	8.05	181280	10.42	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-395763/5	136372	5.55 ✓	305589	8.55 ✓	351999	10.92 ✓	
MB 480-395763/7	131408	5.55	282366	8.55	321091	10.92	
480-129994-1	ML-7S	136308	5.55	293265	8.55	331507	10.92
480-129994-2	TRIP BLANK	131485	5.55	280000	8.55	316190	10.92

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-129878

Sampled 01/08/2018

NITRITE, NITRATE, CHLORIDE, SULFATE
ETHANE, ETHENE, FERROUS IRON

ML-7I (480-129878-1)

ML-7D (480-129878-3)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for two groundwater samples was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Methods, addressed determinations of nitrate, nitrite, ethane, ethene, chloride, sulfate and ferrous iron. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the cited methods were used as a technical reference.

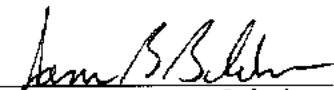
The ferrous iron results from this group of samples have been rejected because the sample holding time was grossly exceeded.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL Inc.

Date: 08 Oct 18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Unpreserved VOC samples within 7 days. Nitrate must be determined within one day and ferrous iron analyses should be performed in the field at the time of sample collection.

This delivery group contained two groundwater samples that were collected from the Former Emerson Street Landfill Site on 08Jan18. The samples were shipped to the laboratory, via FedEx, on 09Jan18 and were received the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. Although the Sample Receipt Checklist indicated that the sample cooler was packed with ice, a cooler temperature was not recorded.

Although proper sample preservation was not documented in the field custody record, checks made at the time of receipt indicated that each sample volume was properly stabilized.

Although custody seals were not found on the sample cooler, the lab indicated that the cooler was sealed with tape and showed no evidence of tampering.

ETHANE AND ETHENE

Ethane and ethene were determined by gas chromatography. These analyses were completed within three days of collection and were associated with a clean blank and spiked blanks that demonstrated acceptable levels of measurement precision and accuracy. The ethane and ethene results from this delivery group should be considered technically correct, completely usable, and without qualifications as reported.

WET CHEMISTRY

Nitrate, nitrite, sulfide and ferrous iron analyses utilized classical wet chemistry methods. Nitrate and nitrite analyses were performed on 10Jan18. Although the holding time for nitrate samples is one day, an additional day is allowed for sample shipments. Data qualifications. Sulfide analyses were completed on 15Jan18, satisfying the program holding time limitation. Ferrous iron samples were analyzed on 15Jan18, these results have been rejected because this analysis should be performed at the time of sample collection and these samples were held for 7 days prior to analysis.

Nitrate (NO₃) concentrations were obtained by analyzing each sample for a total concentration of nitrate plus nitrite (NO₂+NO₃) and subtracting the result of a nitrite (NO₂) determination. Although QC results were not reported for nitrate plus nitrite, acceptable calibration check standards and LCS recoveries were found in the raw data by this reviewer. Data qualifications are not required.

The iodine titrations for sulfide were associated with clean blanks, acceptable check standards, and a spiked blank that produced a recovery of 97%. Sulfide results should be considered completely usable as reported.

ION CHROMATOGRAPHY

Chloride and sulfate determinations were performed by ion chromatography. These samples were associated with clean blanks, acceptable check standards and spiked blanks that produced recoveries of 100% and 108%, respectively. The chloride and sulfate results from this delivery group should be considered completely usable as reported.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

SAMPLED: 01/08/2018

HOLDING TIME
FERROUS IRON

ML-7I (480-129878-1)	REJECT
ML-7D (480-129878-3)	REJECT

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: ML-7I Lab Sample ID: 480-129878-1
 Matrix: Water Lab File ID: 21_05_225.D
 Analysis Method: RSK-175 Date Collected: 01/08/2018 11:10
 Sample wt/vol: 17(mL) Date Analyzed: 01/11/2018 10:28
 Soil Aliquot Vol: _____ Dilution Factor: 88
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		660	130
74-85-1	Ethene	830		620	130

MS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: ML-7D Lab Sample ID: 480-129878-3
 Matrix: Water Lab File ID: 21_05_226.D
 Analysis Method: RSK-175 Date Collected: 01/08/2018 13:55
 Sample wt/vol: 17(mL) Date Analyzed: 01/11/2018 10:45
 Soil Aliquot Vol: _____ Dilution Factor: 88
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		660	130
74-85-1	Ethene	480	J	620	130

MS

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7I

Lab Sample ID: 480-129878-1

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG ID.: _____

Matrix: Water

Date Sampled: 01/08/2018 11:10

Reporting Basis: WET

Date Received: 01/10/2018 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	558	5.0	2.8	mg/L			10	9056A
14809-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	R ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

185

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7D

Lab Sample ID: 480-129878-3

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG ID.: _____

Matrix: Water

Date Sampled: 01/08/2018 13:55

Reporting Basis: WET

Date Received: 01/10/2018 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	0.051	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	5.0	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	421	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	152	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	R ND	0.10	0.075	mg/L		HF F1	1	SM 3500 FE D

JK

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No.: _____

Analyst: CLT Batch Start Date: 01/10/2018

Reporting Units: mg/L Analytical Batch No.: 395257

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:56	Nitrite	1.56	1.50	104 ✓	90-110		Nitrite CCV_00790
2	CCB	11:57	Nitrite	ND					
9	CCV	12:04	Nitrite	1.58	1.50	105 ✓	90-110		Nitrite CCV_00790
10	CCB	12:06	Nitrite	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG No.: _____

Analyst: MDL

Batch Start Date: 01/15/2018

Reporting Units: mg/L

Analytical Batch No.: 395879

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:30	Sulfide	8.00	7.80	103 ✓	90-110		Sulfide CCV_00179
2	CCB	11:30	Sulfide	ND					
13	CCV	11:30	Sulfide	8.00	7.80	103 ✓	90-110		Sulfide CCV_00179
14	CCB	11:30	Sulfide	ND					
22	CCV	11:30	Sulfide	8.00	7.80	103 ✓	90-110		Sulfide CCV_00179
23	CCB	11:30	Sulfide	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG No.:

Analyst: CLA

Batch Start Date: 01/11/2018

Reporting Units: mg/L

Analytical Batch No.: 395416

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	CCV	11:10	Chloride	49.76	50.0	100 ✓	90-110		IC_ANION_LCS_0018 5
			Sulfate	53.54	50.0	107	90-110		IC_ANION_LCS_0018 5
3	CCB	11:18	Chloride	ND					
			Sulfate	ND					
14	CCV	12:48	Chloride	50.34	50.0	101 ✓	90-110		IC_ANION_LCS_0018 5
			Sulfate	53.23	50.0	106	90-110		IC_ANION_LCS_0018 5
15	CCB	12:56	Chloride	ND					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1

SDG No. : _____

Analyst: LED Batch Start Date: 01/16/2018

Reporting Units: mg/L Analytical Batch No.: 396053

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	17:00	Ferrous Iron	1.87	2.00	93 ✓	90-110		FE 200ppm ICV 00006
2	CCB	17:00	Ferrous Iron	ND					
13	CCV	17:00	Ferrous Iron	1.87	2.00	93 ✓	90-110		FE 200ppm ICV_00006
14	CCB	17:00	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 395257 353.2	Date: 01/10/2018 11:58 MB 480-395257/3	Nitrite	ND	✓	mg/L as N	0.050	1
Batch ID: 395416 9056A	Date: 01/11/2018 11:35 MB 480-395416/5	Chloride	ND	✓	mg/L	0.50	1
9056A	MB 480-395416/5	Sulfate	ND		mg/L	2.0	1
Batch ID: 396053 SM 3500 FE	Date: 01/16/2018 17:00 MB 480-396053/3	Ferrous Iron	ND	✓	mg/L	0.10	1
D							
Batch ID: 395879 SM 4500 S2	Date: 01/15/2018 11:30 MB 480-395879/3	Sulfide	ND	✓	mg/L	1.0	1
F							

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 395257 Date: 01/10/2018 12:03											
353.2	480-129878-3	Nitrite	0.051		mg/L as N						
353.2	480-129878-3	Nitrite	1.06		mg/L as N	1.00	101	90-110			
MS											
Batch ID: 396053 Date: 01/16/2018 17:00											
SM 3500	480-129878-3	Ferrous Iron	ND		mg/L						HF F1
FE D											
SM 3500	480-129878-3	Ferrous Iron	0.243		mg/L	1.00	24	70-130			F1
FE D	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result Unit	RPD	RPD Limit	Qual
Batch ID: 395257		Date: 01/10/2018 12:02					
353.2	ML-7D	480-129878-3	Nitrite	0.051 mg/L as N			
353.2	ML-7D	480-129878-3 DU	Nitrite	0.0531 mg/L as N	3	20	✓
Batch ID: 396053		Date: 01/16/2018 17:00					
SM 3500 FE D	ML-7I	480-129878-1	Ferrous Iron	ND mg/L			
SM 3500 FE D	ML-7I	480-129878-1 DU	Ferrous Iron	ND mg/L	NC	20	✓

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-129878-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 395257 Date: 01/10/2018 11:59			LCS Source: Nitrite CCV_00790								
353.2	LCS 480-395257/4	Nitrite	1.59		mg/L as N	1.50	105 ✓	90-110			
Batch ID: 395416 Date: 01/11/2018 11:27			LCS Source: IC_ANION LCS_00185								
9056A	LCS 480-395416/4	Chloride	50.00		mg/L	50.0	100 ✓	90-110			
9056A	LCS 480-395416/4	Sulfate	53.88		mg/L	50.0	108	90-110			
Batch ID: 396053 Date: 01/16/2018 17:00			LCS Source: FE 200ppm ICV_00006								
SM 3500 FE D	LCS 480-396053/4	Ferrous Iron	1.86		mg/L	2.00	93 ✓	90-110			
Batch ID: 395879 Date: 01/15/2018 11:30			LCS Source: Sulfide LCS_00180								
SM 4500 S2 F	LCS 480-395879/4	Sulfide	7.20		mg/L	7.40	97 ✓	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_05_218.D
 Lab ID: LCS 480-395349/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Ethane	14.6	14.8	102	79-120	
Ethene	13.6	13.3	98	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_05_219.D
 Lab ID: LCSD 480-395349/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Ethane	14.6	14.4	99	3	50	79-120	
Ethene	13.6	12.9	95	3	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Lab Sample ID: MB 480-395349/3
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_05_217.D Lab File ID: (2) _____
 Date Analyzed: (1) 01/11/2018 07:49 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-395349/4	01/11/2018 08:06	
	LCSD 480-395349/5	01/11/2018 08:24	
ML-7I	480-129878-1	01/11/2018 10:28	
ML-7D	480-129878-3	01/11/2018 10:45	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-129878-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-395349/3
 Matrix: Water Lab File ID: 21_05_217.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17 (mL) Date Analyzed: 01/11/2018 07:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 395349 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

MS

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-137605

Sampled 6/15/2018

VOLATILE ORGANICS, CHLORIDE, SULFATE, SULFIDE
NITRATE, NITRITE, ETHANE, ETHENE, IRON

ML-2-D (480-137605-1)

DUPE (480-137605-2)

ML-2-I (480-137605-3)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for three groundwater samples was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Methods, addressed determinations of volatile organics, chloride, sulfate, sulfide, nitrate, nitrite, ethane, ethene and ferrous iron. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) and the cited methods were used as a technical reference.

The 2-butanone concentrations found in ML-2-D and ML-2-I have been qualified as estimations because they may represent laboratory artifacts.

The ferrous iron results from this project have been rejected because the samples were not analyzed at the time of collection.

The VOC results from ML-2-D have been qualified as estimations because the samples were not properly preserved,

The nitrate concentration from ML-2-I has been qualified as an estimation because the nitrite portion of the analysis was not performed. The nitrite result from ML-2-I has been rejected.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data

assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL Inc.

Date: 16 July, 18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Nitrate and nitrite must be determined within one day. Sulfide samples must be analyzed within seven days and chloride and sulfate analyses must be completed within 28 days. Ferrous iron analyses should be performed in the field at the time of sample collection.

This delivery group contained three groundwater samples that were collected from the Former Emerson Street Landfill Site and shipped to the laboratory, via FedEx, on 15Jun18. The shipment arrived the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice, with custody seals in place. A cooler temperature of 2.8°C, was recorded at the time of receipt. Proper sample preservation was documented in the field custody record and verified in the laboratory. At the time of analysis a pH=4 was obtained from ML-2-D. The VOC results from this sample have been qualified as estimations because the samples were not analyzed within the holding time allowed for an unpreserved sample. An acceptable reading of pH<2 was obtained from the DUPE and ML-2-I.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 23Jun18. The SW-846 holding time requirements were satisfied for the DUPE and ML-2-I. As previously noted, ML-2-D was not properly preserved and was not analyzed within the holding time allowed for unpreserved samples.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Two method blanks were analyzed with this group of samples. Both of these blanks demonstrated acceptable chromatography and were free of targeted analyte contamination.

Although not detected in the method blank, 2-butanone was found in ML-2-D and ML-2-I. These concentrations have been qualified as estimations because low levels of 2-butanone frequently represent laboratory artifacts. 2-Butanone (MEK) could not be removed from the affected sample reports because it was not found in the associated method blank.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 20Jun18. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

Calibration check standards were analyzed on 22Jun18 and 23Jun18, prior to the twelve-hour periods of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability during both calibration checks.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

ML-2-D was selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement precision and accuracy.

A pair of spiked blanks (LCS/LCSD) was also analyzed with this group of samples. Both of these LCS samples produced acceptable analyte recoveries.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

ETHANE AND ETHENE

Ethane and ethene were also determined by gas chromatography. These analyses were completed within four days of collection and were associated with a clean blank and spiked blanks that demonstrated acceptable levels of measurement precision and accuracy. The ethane and ethene results from this project should be considered completely usable as presented.

WET CHEMISTRY

Nitrite, nitrate, chloride, sulfate, sulfide and ferrous iron were determined by wet chemistry methods. Nitrate analyses were

completed on 19Jun18, and chloride, sulfate and sulfide determinations were completed on 21Jun18. The ASP holding time limitations were satisfied.

Both program samples were analyzed for ferrous iron on 18Jun18. These results must be considered unreliable because ferrous analyses should be performed at the time of sample collection. ML-2-D and ML-2-I were held for three days prior to analysis.

Nitrate (NO₃) concentrations are obtained by analyzing each sample for a total concentration of nitrate plus nitrite (NO₂+NO₃) and subtracting the result of a nitrite (NO₂) determination. Although both samples from this delivery group were analyzed for NO₂+NO₃, NO₂ determinations were not performed. The nitrate concentration reported from ML-2-I has been qualified as an estimation because the reported result might include a contribution of NO₂. The NO₂ result from ML-2-I has been rejected. ML-2-D produced a negative NO₂+NO₃ result. The NO₂ and NO₃ results from this sample remain unqualified.

Although QC results were not reported for nitrate, acceptable calibration check standards and LCS recoveries, as well as clean blanks were found in the raw data by this reviewer. Data qualifications are not required.

Each chloride, sulfate and sulfide analysis was associated with a linear calibration curve and was bracketed by calibration check standards that were recovered successfully. The method blanks were clean and the spiked blanks (LCS) produced acceptable recoveries. The chloride, sulfate and sulfide results from this project should be considered completely usable as presented.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

SAMPLED: 6/15/18

	BLANK MEK	PRESERVE VOC	HOLD TIME FERROUS	METHODS NITRATE	METHODS NITRITE
ML-2-D (480-137605-1)	19J	ALL J/UJ	REJECT		
DUPE (480-137605-2)					
ML-2-I (480-137605-3)	57J		REJECT	0.023J	REJECT

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: S2632.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane -	6.1	J	5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND	>UJ	5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND	>UJ	5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane -	2.8	J	5.0	1.6
75-34-3	1,1-Dichloroethane -	49	J	5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND	UJ	5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK) -	19	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	>UJ	25	11
67-64-1	Acetone	ND	>UJ	50	15
71-43-2	Benzene -	21	J	5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND	UJ	5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane -	10	J	5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND	UJ	5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND	UJ	5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene -	11	J	5.0	3.7
106-93-4	1,2-Dibromoethane	ND	UJ	5.0	3.7
98-82-8	Isopropylbenzene -	24	J	5.0	4.0

TAS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: S2632.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	5	13	6.5
1634-04-4	Methyl tert-butyl ether -	33	5	5.0	0.80
108-87-2	Methylcyclohexane -	1.1	5	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND	5	5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene -	9.5	J	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND	5	5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total -	94	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: S2632.D
 Analysis Method: 8260C Date Collected: 06/15/2018 12:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 04:32
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421186 Units: ug/L
 Number TICs Found: 3 TIC Result Total: 89

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	1.52	17	T J	
95-63-6	Benzene, 1,2,4-trimethyl-	10.53	43	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.94	29	T J N	94%

2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137605-2
 Matrix: Water Lab File ID: S2661.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 18:03
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.6		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	50		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	20		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	10		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	ND		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	11		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	23		5.0	4.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137605-2
 Matrix: Water Lab File ID: S2661.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 18:03
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether -	31		5.0	0.80
108-87-2	Methylcyclohexane -	1.3	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene -	9.5		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total -	86		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137605-2
 Matrix: Water Lab File ID: S2661.D
 Analysis Method: 8260C Date Collected: 06/15/2018 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:03
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 2 TIC Result Total: 66

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
108-67-8	Benzene, 1,3,5-trimethyl-	10.53	39	T J N	95%
526-73-8	Benzene, 1,2,3-trimethyl-	10.94	27	T J N	95%

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: S2662.D
 Analysis Method: 8260C Date Collected: 06/15/2018 11:44
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 18:26
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane -	63		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK) -	57		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene -	25		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane -	5.4		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene -	14		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene -	13		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene -	25		5.0	4.0

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: S2662.D
 Analysis Method: 8260C Date Collected: 06/15/2018 11:44
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 18:26
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether -	47		5.0	0.80
108-87-2	Methylcyclohexane -	1.4	J	5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene -	23		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	ND		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total -	110		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TAS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-I Lab Sample ID: 480-137605-3
 Matrix: Water Lab File ID: S2662.D
 Analysis Method: 8260C Date Collected: 06/15/2018 11:44
 Sample wt/vol: 5 (mL) Date Analyzed: 06/23/2018 18:26
 Soil Aliquot Vol.: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 3 TIC Result Total: 80

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
60-29-7	Ethyl ether	2.50	13	T J N	86%
526-73-8	Benzene, 1,2,3-trimethyl-	10.53	41	T J N	95%
620-14-4	Benzene, 1-ethyl-3-methyl-	10.94	26	T J N	94%

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FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-2-D	480-137605-1	99 ✓	101 ✓	99 ✓	99 ✓
DUPE	480-137605-2	105	104	102	102
ML-2-I	480-137605-3	103	104	97	96
TB	480-137605-4	103	103	98	103
	MB 480-421186/6	96	101	100	98
	MB 480-421204/7	106	105	104	101
	LCS 480-421186/4	104	101	99	100
	LCS 480-421204/5	101	98	101	100
ML-2-D MS	480-137605-1 MS	102	102	99	99
ML-2-D MSD	480-137605-1 MSD	100	103	99	99

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S2617.D

Lab ID: LCS 480-421186/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	28.8	115	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.9	99	76-120	
1,1,2-Trichloroethane	25.0	25.4	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	100	61-148	
1,1-Dichloroethane	25.0	27.1	108	77-120	
1,1-Dichloroethene	25.0	30.2	121	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.1	96	56-134	
1,2-Dichlorobenzene	25.0	25.7	103	80-124	
1,2-Dichloroethane	25.0	26.4	105	75-120	
1,2-Dichloropropane	25.0	25.9	104	76-120	
1,3-Dichlorobenzene	25.0	25.7	103	77-120	
1,4-Dichlorobenzene	25.0	26.1	104	80-120	
2-Butanone (MEK)	125	117	93	57-140	
2-Hexanone	125	111	89	65-127	
4-Methyl-2-pentanone (MIBK)	125	111	89	71-125	
Acetone	125	107	85	56-142	
Benzene	25.0	27.2	109	71-124	
Bromodichloromethane	25.0	28.7	115	80-122	
Bromoform	25.0	28.3	113	61-132	
Bromomethane	25.0	23.1	92	55-144	
Carbon disulfide	25.0	28.3	113	59-134	
Carbon tetrachloride	25.0	31.0	124	72-134	
Chlorobenzene	25.0	26.3	105	80-120	
Dibromochloromethane	25.0	28.3	113	75-125	
Chloroethane	25.0	24.2	97	69-136	
Chloroform	25.0	25.9	104	73-127	
Chloromethane	25.0	22.1	89	68-124	
cis-1,2-Dichloroethene	25.0	27.4	110	74-124	
cis-1,3-Dichloropropene	25.0	27.4	110	74-124	
Cyclohexane	25.0	30.2	121	59-135	
Dichlorodifluoromethane	25.0	22.8	91	59-135	
Ethylbenzene	25.0	27.1	108	77-123	
1,2-Dibromoethane	25.0	25.0	100	77-120	
Isopropylbenzene	25.0	27.2	109	77-122	
Methyl acetate	50.0	44.5	89	74-133	
Methyl tert-butyl ether	25.0	26.0	104	77-120	
Methylcyclohexane	25.0	31.1	124	68-134	
Methylene Chloride	25.0	24.3	97	75-124	
Styrene	25.0	26.5	106	80-120	
Tetrachloroethene	25.0	26.7	107	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S2617.D
 Lab ID: LCS 480-421186/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	26.6	106	80-122	
trans-1,2-Dichloroethene	25.0	28.1	112	73-127	
trans-1,3-Dichloropropene	25.0	27.3	109	80-120	
Trichloroethene	25.0	27.7	111	74-123	
Trichlorofluoromethane	25.0	26.6	106	62-150	
Vinyl chloride	25.0	23.9	96	65-133	

Column to be used to flag recovery and RPD values
 FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2644.D

Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.6	102	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.7	95	76-120	
1,1,2-Trichloroethane	25.0	24.3	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5	94	61-148	
1,1-Dichloroethane	25.0	24.5	98	77-120	
1,1-Dichloroethene	25.0	25.6	103	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.2	97	56-134	
1,2-Dichlorobenzene	25.0	24.5	98	80-124	
1,2-Dichloroethane	25.0	23.9	95	75-120	
1,2-Dichloropropane	25.0	23.9	96	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	24.9	99	80-120	
2-Butanone (MEK)	125	118	94	57-140	
2-Hexanone	125	111	88	65-127	
4-Methyl-2-pentanone (MIBK)	125	109	87	71-125	
Acetone	125	116	93	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	25.5	102	80-122	
Bromoform	25.0	25.9	104	61-132	
Bromomethane	25.0	22.3	89	55-144	
Carbon disulfide	25.0	24.2	97	59-134	
Carbon tetrachloride	25.0	28.3	113	72-134	
Chlorobenzene	25.0	25.1	100	80-120	
Dibromochloromethane	25.0	26.9	108	75-125	
Chloroethane	25.0	22.9	92	69-136	
Chloroform	25.0	24.2	97	73-127	
Chloromethane	25.0	20.9	84	68-124	
cis-1,2-Dichloroethene	25.0	25.3	101	74-124	
cis-1,3-Dichloropropene	25.0	24.9	99	74-124	
Cyclohexane	25.0	27.7	111	59-135	
Dichlorodifluoromethane	25.0	20.4	82	59-135	
Ethylbenzene	25.0	25.9	104	77-123	
1,2-Dibromoethane	25.0	23.2	93	77-120	
Isopropylbenzene	25.0	26.5	106	77-122	
Methyl acetate	50.0	43.1	86	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	27.4	110	68-134	
Methylene Chloride	25.0	22.2	89	75-124	
Styrene	25.0	25.1	100	80-120	
Tetrachloroethene	25.0	25.7	103	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S2644.D
 Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	25.3	101	80-122	
trans-1,2-Dichloroethene	25.0	25.3	101	73-127	
trans-1,3-Dichloropropene	25.0	25.3	101	80-120	
Trichloroethene	25.0	25.3	101	74-123	
Trichlorofluoromethane	25.0	22.8	91	62-150	
Vinyl chloride	25.0	22.4	90	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S2638.D

Lab ID: 480-137605-1 MS

Client ID: ML-2-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	6.1	149	115	73-126	
1,1,2,2-Tetrachloroethane	125	ND	128	102	76-120	
1,1,2-Trichloroethane	125	ND	128	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	2.8 J	145	114	61-148	
1,1-Dichloroethane	125	49	185	109	77-120	
1,1-Dichloroethene	125	ND	157	126	66-127	
1,2,4-Trichlorobenzene	125	ND	138	111	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	132	106	56-134	
1,2-Dichlorobenzene	125	ND	130	104	80-124	
1,2-Dichloroethane	125	ND	132	106	75-120	
1,2-Dichloropropane	125	ND	133	106	76-120	
1,3-Dichlorobenzene	125	ND	133	107	77-120	
1,4-Dichlorobenzene	125	ND	132	106	78-124	
2-Butanone (MEK)	625	19 J	662	103	57-140	
2-Hexanone	625	ND	581	93	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	594	95	71-125	
Acetone	625	ND	626	100	56-142	
Benzene	125	21	159	110	71-124	
Bromodichloromethane	125	ND	143	114	80-122	
Bromoform	125	ND	147	117	61-132	
Bromomethane	125	ND	124	100	55-144	
Carbon disulfide	125	ND	144	115	59-134	
Carbon tetrachloride	125	ND	158	127	72-134	
Chlorobenzene	125	ND	138	110	80-120	
Dibromochloromethane	125	ND	143	114	75-125	
Chloroethane	125	10	144	107	69-136	
Chloroform	125	ND	132	105	73-127	
Chloromethane	125	ND	122	98	68-124	
cis-1,2-Dichloroethene	125	ND	144	115	74-124	
cis-1,3-Dichloropropene	125	ND	133	107	74-124	
Cyclohexane	125	ND	162	129	59-135	
Dichlorodifluoromethane	125	ND	137	110	59-135	
Ethylbenzene	125	11	150	111	77-123	
1,2-Dibromoethane	125	ND	132	106	77-120	
Isopropylbenzene	125	24	165	112	77-122	
Methyl acetate	250	ND	241	96	74-133	
Methyl tert-butyl ether	125	33	163	103	77-120	
Methylcyclohexane	125	1.1 J	158	125	68-134	
Methylene Chloride	125	ND	117	94	75-124	
Styrene	125	ND	136	109	80-120	
Tetrachloroethene	125	ND	138	110	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S2638.D
 Lab ID: 480-137605-1 MS Client ID: ML-2-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	9.5	143	107	80-122	
trans-1,2-Dichloroethene	125	ND	142	113	73-127	
trans-1,3-Dichloropropene	125	ND	132	105	80-120	
Trichloroethene	125	ND	142	114	74-123	
Trichlorofluoromethane	125	ND	148	118	62-150	
Vinyl chloride	125	ND	138	110	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S2639.D

Lab ID: 480-137605-1 MSD

Client ID: ML-2-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %		QC LIMITS		#
			REC	RPD	RPD	REC	
1,1,1-Trichloroethane	125	142	109	5	15	73-126	
1,1,2,2-Tetrachloroethane	125	129	103	1	15	76-120	
1,1,2-Trichloroethane	125	126	101	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	127	99	14	20	61-148	
1,1-Dichloroethane	125	173	100	7	20	77-120	
1,1-Dichloroethene	125	137	109	14	16	66-127	
1,2,4-Trichlorobenzene	125	133	107	4	20	79-122	
1,2-Dibromo-3-Chloropropane	125	132	106	0	15	56-134	
1,2-Dichlorobenzene	125	131	105	0	20	80-124	
1,2-Dichloroethane	125	123	99	7	20	75-120	
1,2-Dichloropropane	125	123	99	8	20	76-120	
1,3-Dichlorobenzene	125	131	105	2	20	77-120	
1,4-Dichlorobenzene	125	130	104	2	20	78-124	
2-Butanone (MEK)	625	636	99	4	20	57-140	
2-Hexanone	625	566	91	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	588	94	1	35	71-125	
Acetone	625	613	98	2	15	56-142	
Benzene	125	148	101	7	13	71-124	
Bromodichloromethane	125	139	111	3	15	80-122	
Bromoform	125	144	115	2	15	61-132	
Bromomethane	125	114	91	9	15	55-144	
Carbon disulfide	125	130	104	10	15	59-134	
Carbon tetrachloride	125	140	112	13	15	72-134	
Chlorobenzene	125	132	105	5	25	80-120	
Dibromochloromethane	125	139	111	3	15	75-125	
Chloroethane	125	127	94	12	15	69-136	
Chloroform	125	121	97	9	20	73-127	
Chloromethane	125	109	87	12	15	68-124	
cis-1,2-Dichloroethene	125	136	108	6	15	74-124	
cis-1,3-Dichloropropene	125	128	103	4	15	74-124	
Cyclohexane	125	136	109	17	20	59-135	
Dichlorodifluoromethane	125	117	94	16	20	59-135	
Ethylbenzene	125	142	104	5	15	77-123	
1,2-Dibromoethane	125	123	99	7	15	77-120	
Isopropylbenzene	125	159	108	3	20	77-122	
Methyl acetate	250	235	94	2	20	74-133	
Methyl tert-butyl ether	125	157	99	4	37	77-120	
Methylcyclohexane	125	146	116	8	20	68-134	
Methylene Chloride	125	114	92	2	15	75-124	
Styrene	125	130	104	4	20	80-120	
Tetrachloroethene	125	135	108	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2639.D

Lab ID: 480-137605-1 MSD Client ID: ML-2-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	✓ % RPD	QC LIMITS		#
					✓ RPD	REC	
Toluene	125	141	105	2	15	80-122	
trans-1,2-Dichloroethene	125	134	108	5	20	73-127	
trans-1,3-Dichloropropene	125	132	106	0	15	80-120	
Trichloroethene	125	128	102	11	16	74-123	
Trichlorofluoromethane	125	133	107	11	20	62-150	
Vinyl chloride	125	118	95	15	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
SDG No.: _____
Lab File ID: S2619.D Lab Sample ID: MB 480-421186/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 06/22/2018 21:52
GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421186/4	S2617.D	06/22/2018 20:53
ML-2-D	480-137605-1	S2632.D	06/23/2018 04:32
TB	480-137605-4	S2635.D	06/23/2018 05:42
ML-2-D MS	480-137605-1 MS	S2638.D	06/23/2018 06:52
ML-2-D MSD	480-137605-1 MSD	S2639.D	06/23/2018 07:15

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
SDG No.: _____
Lab File ID: S2646.D Lab Sample ID: MB 480-421204/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 06/23/2018 11:54
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421204/5	S2644.D	06/23/2018 11:07
DUPE	480-137605-2	S2661.D	06/23/2018 18:03
ML-2-I	480-137605-3	S2662.D	06/23/2018 18:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2504.D BFB Injection Date: 06/20/2018
 Instrument ID: HP5973S BFB Injection Time: 12:54
 Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.0 ✓
75	30.0 - 60.0 % of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.8
175	5.0 - 9.0 % of mass 174	6.2 (7.7) 1
176	95.0 - 101.0 % of mass 174	77.9 (97.6) 1
177	5.0 - 9.0 % of mass 176	4.6 (5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2614.D BFB Injection Date: 06/22/2018
 Instrument ID: HP5973S BFB Injection Time: 19:38
 Analysis Batch No.: 421186

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.6
75	30.0 - 60.0 % of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.2
173	Less than 2.0 % of mass 174	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	73.9
175	5.0 - 9.0 % of mass 174	6.1 (8.3) 1
176	95.0 - 101.0 % of mass 174	72.7 (98.4) 1
177	5.0 - 9.0 % of mass 176	5.3 (7.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421186/2	S2615.D	06/22/2018	20:06
	LCS 480-421186/4	S2617.D	06/22/2018	20:53
	MB 480-421186/6	S2619.D	06/22/2018	21:52
ML-2-D	480-137605-1	S2632.D	06/23/2018	04:32
TB	480-137605-4	S2635.D	06/23/2018	05:42
ML-2-D MS	480-137605-1 MS	S2638.D	06/23/2018	06:52
ML-2-D MSD	480-137605-1 MSD	S2639.D	06/23/2018	07:15

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab File ID: S2641.D BFB Injection Date: 06/23/2018
 Instrument ID: HP5973S BFB Injection Time: 09:52
 Analysis Batch No.: 421204

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.2 ✓
75	30.0 - 60.0 % of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.4
175	5.0 - 9.0 % of mass 174	5.9 (7.4) 1
176	95.0 - 101.0 % of mass 174	76.8 (96.7) 1
177	5.0 - 9.0 % of mass 176	5.5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421204/3	S2642.D	06/23/2018	10:20
	LCS 480-421204/5	S2644.D	06/23/2018	11:07
	MB 480-421204/7	S2646.D	06/23/2018	11:54
DUPE	480-137605-2	S2661.D	06/23/2018	18:03
ML-2-I	480-137605-3	S2662.D	06/23/2018	18:26 ✓

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N
 Calibration ID: 34116

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT	394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT	98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-421186/2	192826	✓ 5.51	391073	✓ 8.51	358460	✓ 10.89
CCVIS 480-421204/3	200347	5.51	390439	8.51	349453	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Sample No.: CCVIS 480-421186/2 Date Analyzed: 06/22/2018 20:06
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2615.D Heated Purge: (Y/N) N
 Calibration ID: 34119

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		192826	5.51	391073	8.51	358460	10.89
UPPER LIMIT		385652	6.01	782146	9.01	716920	11.39
LOWER LIMIT		96413	5.01	195537	8.01	179230	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421186/4		183838	✓ 5.51	385471	✓ 8.51	357366	✓ 10.89
MB 480-421186/6		189930	5.51	379608	8.51	343562	10.89
480-137605-1	ML-2-D	186481	5.51	371814	8.51	341170	10.89
480-137605-4	TB	180532	5.52	373368	8.51	329686	10.89
480-137605-1 MS	ML-2-D MS	187690	5.51	383132	8.51	355214	10.89
480-137605-1 MSD	ML-2-D MSD	193127	5.51	385128	8.51	349172	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Sample No.: CCVIS 480-421204/3 Date Analyzed: 06/23/2018 10:20
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2642.D Heated Purge: (Y/N) N
 Calibration ID: 34119

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		200347	5.51	390439	8.51	349453	10.89
UPPER LIMIT		400694	6.01	780878	9.01	698906	11.39
LOWER LIMIT		100174	5.01	195220	8.01	174727	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421204/5		195959	✓ 5.51	388813	✓ 8.51	353233	✓ 10.89
MB 480-421204/7		349725	5.51	714901	8.52	671304	10.89
480-137605-2	DUPE	181861	5.51	371582	8.51	347698	10.89
480-137605-3	ML-2-I	184824	5.51	384302	8.51	342910	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: ML-2-D Lab Sample ID: 480-137605-1
 Matrix: Water Lab File ID: 21_12_058.D
 Analysis Method: RSK-175 Date Collected: 06/15/2018 12:45
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 14:49
 Soil Aliquot Vol: _____ Dilution Factor: 11
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	160		83	17
74-85-1	Ethene	140		77	17

MS

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-137605-1</u>
SDG No.: _____	
Client Sample ID: <u>ML-2-I</u>	Lab Sample ID: <u>480-137605-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>21_12_052.D</u>
Analysis Method: <u>RSK-175</u>	Date Collected: <u>06/15/2018 11:44</u>
Sample wt/vol: <u>17(mL)</u>	Date Analyzed: <u>06/19/2018 13:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>22</u>
Soil Extract Vol.: _____	GC Column: <u>Alumina</u> ID: <u>0.53(mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>420316</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	180		170	33
74-85-1	Ethene	340		150	33

MS

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_045.D
 Lab ID: LCS 480-420316/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	13.1	90	79-120	
Ethene	13.6	12.0	88	85-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 21_12_046.D

Lab ID: LCSD 480-420316/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Ethane	14.6	13.8	95	6	50	79-120	
Ethene	13.6	12.8	94	6	50	85-120	

Column to be used to flag recovery and RPD values

FORM III RSK-175

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: MB 480-420316/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_12_044.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/19/2018 09:55 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-420316/5	06/19/2018 10:12	
	LCSD 480-420316/6	06/19/2018 10:30	
ML-2-I	480-137605-3	06/19/2018 13:04	
ML-2-D	480-137605-1	06/19/2018 14:49	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-420316/4
 Matrix: Water Lab File ID: 21_12_044.D
 Analysis Method: RSK-175 Date Collected: _____
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 09:55
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	ND	✓	7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/3 Calibration Date: 06/19/2018 09:37
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_043.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1773		15.9	15.5	2.6	15.0
Ethane	Lin1		1745		28.1	29.1	-3.5	15.0
Ethene	Lin1		1593		26.3	27.2	-3.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Lab Sample ID: CCV 480-420316/20 Calibration Date: 06/19/2018 15:33
 Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
 GC Column: Alumina ID: 0.53(mm) Calib End Date: 09/12/2017 10:54
 Lab File ID: 21_12_060.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1865		16.9	15.5	9.1	15.0
Ethane	Lin1		1867		30.4	29.1	4.5	15.0
Ethene	Lin1		1703		28.4	27.2	4.5	15.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2-D

Lab Sample ID: 480-137605-1

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/15/2018 12:45

Reporting Basis: WET

Date Received: 06/16/2018 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N		H	1	353.2
16887-00-6	Chloride	411	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND R	0.10	0.075	mg/L		HF	1	SM 3500 FE D

785

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-2-I

Lab Sample ID: 480-137605-3

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/15/2018 11:44

Reporting Basis: WET

Date Received: 06/16/2018 09:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND R	0.050	0.020	mg/L as N		H	1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	0.023 J	0.050	0.020	mg/L as N	J	H	1	353.2
16887-00-6	Chloride	402	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	ND R	0.10	0.075	mg/L		HF	1	SM 3500 FE D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.: _____

Analyst: MJB

Batch Start Date: 06/21/2018

Reporting Units: mg/L

Analytical Batch No.: 420855

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:44	Sulfide	10.00	10.0	100 ✓	90-110		Sulfide CCV_00238
2	CCB	10:44	Sulfide	ND ✓					
13	CCV	10:44	Sulfide	10.00	10.0	100 ✓	90-110		Sulfide CCV_00238
14	CCB	10:44	Sulfide	ND ✓					
16	CCV	10:44	Sulfide	10.40	10.0	104 ✓	90-110		Sulfide CCV_00238
17	CCB	10:44	Sulfide	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Analyst: DMR Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 420962

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:30	Chloride	50.54	50.0	101 ✓	90-110		IC_ANION_LCS_0020 7
			Sulfate	51.24	50.0	102	90-110		IC_ANION_LCS_0020 7
2	CCB	20:38	Chloride	ND ✓					
			Sulfate	ND ✓					
13	CCV	22:08	Chloride	51.17	50.0	102 ✓	90-110		IC_ANION_LCS_0020 7
			Sulfate	51.40	50.0	103	90-110		IC_ANION_LCS_0020 7
14	CCB	22:16	Chloride	ND ✓					
			Sulfate	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 06/18/2018
 Reporting Units: mg/L Analytical Batch No.: 420230

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:00	Ferrous Iron	1.79	2.00	90 ✓	90-110		FE 200ppm ICV_00022
2	CCB	13:00	Ferrous Iron	ND ✓					
13	CCV	13:00	Ferrous Iron	2.11	2.00	105 ✓	90-110		FE 200ppm ICV_00022
14	CCB	13:00	Ferrous Iron	ND ✓					
16	CCV	13:00	Ferrous Iron	2.09	2.00	105 ✓	90-110		FE 200ppm ICV_00022
17	CCB	13:00	Ferrous Iron	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 420962 Date: 06/21/2018 20:55							
9056A	MB 480-420962/4	Chloride	ND	✓	mg/L	0.50	1
9056A	MB 480-420962/4	Sulfate	ND		mg/L	2.0	1
Batch ID: 420230 Date: 06/18/2018 13:00							
SM 3500 FE D	MB 480-420230/3	Ferrous Iron	ND	✓	mg/L	0.10	1
Batch ID: 420855 Date: 06/21/2018 10:44							
SM 4500 S2 F	MB 480-420855/3	Sulfide	ND	✓	mg/L	1.0	1

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137605-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result Unit	RPD	RPD Limit	Qual
Batch ID: 420855		Date: 06/21/2018 10:44					
SM 4500 S2 ML-2-D F		480-137605-1	Sulfide	ND mg/L			
SM 4500 S2 ML-2-D F		480-137605-1 DU	Sulfide	ND mg/L	NC ✓	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137605-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420962 Date: 06/21/2018 20:46			LCS Source: IC_ANION_LCS_00207								
9056A	LCS 480-420962/3	Chloride	50.62		mg/L	50.0	101 ✓	90-110			
9056A	LCS 480-420962/3	Sulfate	51.34		mg/L	50.0	103 ✓	90-110			
Batch ID: 420230 Date: 06/18/2018 13:00			LCS Source: FE 200ppm ICV_00022								
SM 3500 FE D	LCS 480-420230/4	Ferrous Iron	1.88		mg/L	2.00	94 ✓	90-110			
Batch ID: 420855 Date: 06/21/2018 10:44			LCS Source: Sulfide LCS_00238								
SM 4500 S2 F	LCS 480-420855/4	Sulfide	8.80		mg/L	9.20	96 ✓	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-137434

Sampled 6/13/2018

VOLATILE ORGANICS, CHLORIDE, SULFATE, SULFIDE
NITRATE, NITRITE, ETHANE, ETHENE, IRON

LAB-SBW-15 (480-137434-1)

LAB-SBW-16 (480-137434-2)

DUPE (480-137434-3)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for three groundwater samples was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Methods, addressed determinations of volatile organics, chloride, sulfate, sulfide, nitrate, nitrite, ethane, ethene and ferrous iron. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) and the cited methods were used as a technical reference.

The acetone concentrations found in LAB-SBW16 and the DUPE have been qualified as estimations because they may represent laboratory artifacts.

The ferrous iron results from this project have been rejected because the samples were not analyzed at the time of collection.

The VOC results from LAB-SBW16 and the DUPE have been qualified as estimations because the samples were not properly preserved,

The total xylenes concentration from LAB-SBW15 was reported incorrectly. Form 1 has been corrected.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Rejected data should not be included in data tables. Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data

assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 15 July 18
James B. Baldwin
DATAVAL Inc.

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Nitrate and nitrite must be determined within one day. Sulfide samples must be analyzed within seven days and chloride and sulfate analyses must be completed within 28 days. Ferrous iron analyses should be performed in the field at the time of sample collection.

This delivery group contained three groundwater samples that were collected from the Former Emerson Street Landfill Site and shipped to the laboratory, via FedEx, on 13Jun18. The shipment arrived the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice. Although custody seals were not found on the sample cooler, the lab indicated that the cooler was sealed with tape and showed no evidence of tampering. A cooler temperature of 3.2°C, was recorded at the time of receipt. Proper sample preservation was documented in the field custody record and verified in the laboratory. At the time of analysis a pH=7 was obtained from LAB-SBW16 and the DUPE. The VOC results from this pair of samples have been qualified as estimations because the samples were not analyzed within the holding time allowed for unpreserved samples. An acceptable reading of pH<2 was obtained from LAB-SBW15.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 21Jun18. The SW-846 holding time requirements were satisfied for LAB-SBW15. As previously noted, LAB-SBW16 and the DUPE were not properly preserved and were not analyzed within the holding time allowed for unpreserved samples.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

Although not detected in the blank, acetone was found in LAB-SBW16 and the DUPE. These concentrations have been qualified as estimations because low levels of acetone frequently represent laboratory artifacts. Acetone could not be removed from the

affected sample reports because it was not found in the associated method blank.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 20Jun18. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A calibration check standard was analyzed on 21Jun18, prior to the twelve-hour period of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area

of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

LAB-SBW16 was selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement precision and accuracy.

A spiked blank (LCS) was also analyzed with this group of samples. This LCS sample produced acceptable analyte recoveries.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

The total xylenes concentration reported from LAB-SBW15 did not include the contribution of o-xylene. Form 1 has been corrected to read 9.8 μ /l.

ETHANE AND ETHENE

Ethane and ethene were also determined by gas chromatography. These analyses were completed within six days of collection and were associated with a clean blank and spiked blanks that demonstrated acceptable levels of measurement precision and

accuracy. The ethane and ethene results from this project should be considered completely usable as presented.

WET CHEMISTRY

Nitrite, nitrate, chloride, sulfate, sulfide and ferrous iron were determined by wet chemistry methods. Nitrate analyses were completed on 15Jun18; and chloride, sulfate and sulfide determinations were completed on 20Jun18. The ASP holding time limitations were satisfied.

Both program samples were analyzed for ferrous iron on 18Jun18. These results must be considered unreliable because ferrous analyses should be performed at the time of sample collection. LAB-SBW15 and LAB-SBW16 were held for five days prior to analysis.

Nitrate (NO₃) concentrations are obtained by analyzing each sample for a total concentration of nitrate plus nitrite (NO₂+NO₃) and subtracting the result of a nitrite (NO₂) determination. Both samples from this delivery group produced negative NO₂+NO₃ results. A nitrite analysis was therefore not required.

Although QC results were not reported for nitrite and nitrate, acceptable calibration check standards and LCS recoveries, as well as clean blanks were found in the raw data by this reviewer. Data qualifications are not required.

Each chloride, sulfate and sulfide analysis was associated with a linear calibration curve and was bracketed by calibration check standards that were recovered successfully. The method blanks were clean and the spiked blanks (LCS) and spiked samples produced acceptable recoveries. The chloride, sulfate and sulfide results from this project should be considered completely usable as presented.

SUMMARY OF QUALIFIED DATA

SAMPLED: 6/13/18

EMERSON STREET LANDFILL SITE

	BLANK ACETONE	PRESERVE VOC	SAMPLING FERROUS	CORRECT TOTAL XYLENES
LAB-SBW-15 (480-137434-1)			REJECT	9.8 µg/l
LAB-SBW-16 (480-137434-2)	15J	ALL J/UJ	REJECT	
DUPE (480-137434-3)	21J	ALL J/UJ		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-137434-1</u>
SDG No.:	
Client Sample ID: <u>LAB-SBW15</u>	Lab Sample ID: <u>480-137434-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>S2564.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>06/13/2018 14:30</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>06/21/2018 21:13</u>
Soil Aliquot Vol:	Dilution Factor: <u>8</u>
Soil Extract Vol.:	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
Moisture:	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>420936</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
75-34-3	1,1-Dichloroethane -	15		8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
78-93-3	2-Butanone (MEK)	ND		80	11
591-78-6	2-Hexanone	ND		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene -	20		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane -	420		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	ND		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane -	1.6	J	8.0	1.4
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
98-82-8	Isopropylbenzene	ND		8.0	6.3

7/25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: S2564.D
 Analysis Method: 8260C Date Collected: 06/13/2018 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:13
 Soil Aliquot Vol: _____ Dilution Factor: 8
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether -	9.4		8.0	1.3
108-87-2	Methylcyclohexane	12		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	ND		8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	ND		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total -	9.8	5.4 J	16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: S2564.D
 Analysis Method: 8260C Date Collected: 06/13/2018 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:13
 Soil Aliquot Vol: _____ Dilution Factor: 8
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: S2565.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane -	19	J	5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND	>50	5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane -	16	J	5.0	1.6
75-34-3	1,1-Dichloroethane -	35	J	5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND	>50	5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone -	15	JJ	50	15
71-43-2	Benzene -	23	J	5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND	>50	5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane -	3.3	JJ	5.0	1.6
67-66-3	Chloroform	ND	>50	5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene -	140	J	5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND	>50	5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene -	12	J	5.0	3.7
106-93-4	1,2-Dibromoethane	ND	>50	5.0	3.7
98-82-8	Isopropylbenzene -	35	J	5.0	4.0

JJS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: S2565.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:36
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	J	13	6.5
1634-04-4	Methyl tert-butyl ether -	55	J	5.0	0.80
108-87-2	Methylcyclohexane -	1.3	J	5.0	0.80
75-09-2	Methylene Chloride	ND	J	5.0	2.2
100-42-5	Styrene	ND	J	5.0	3.7
127-18-4	Tetrachloroethene	ND	J	5.0	1.8
108-88-3	Toluene -	10	J	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND	J	5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND	J	5.0	1.9
79-01-6	Trichloroethene	ND	J	5.0	2.3
75-69-4	Trichlorofluoromethane	ND	J	5.0	4.4
75-01-4	Vinyl chloride -	84	J	5.0	4.5
1330-20-7	Xylenes, Total -	160	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: S2565.D
 Analysis Method: 8260C Date Collected: 06/13/2018 10:15
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:36
 Soil Aliquot Vol.: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 5 TIC Result Total: 163

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	9.27	16	T J	
620-14-4	Benzene, 1-ethyl-3-methyl-	10.16	15	T J N	91%
108-67-8	Benzene, 1,3,5-trimethyl-	10.53	70	T J N	95%
526-73-8	Benzene, 1,2,3-trimethyl-	10.94	47	T J N	94%
	Unknown	11.13	15	T J	

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137434-3
 Matrix: Water Lab File ID: S2566.D
 Analysis Method: 8260C Date Collected: 06/13/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane -	19	J	5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND	J	5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND	J	5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane -	16	J	5.0	1.6
75-34-3	1,1-Dichloroethane -	34	J	5.0	1.9
75-35-4	1,1-Dichloroethene	ND	J	5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND	J	5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND	J	5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND	J	5.0	4.0
107-06-2	1,2-Dichloroethane	ND	J	5.0	1.1
78-87-5	1,2-Dichloropropane	ND	J	5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND	J	5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND	J	5.0	4.2
78-93-3	2-Butanone (MEK)	ND	J	50	6.6
591-78-6	2-Hexanone	ND	J	25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	J	25	11
67-64-1	Acetone -	21	J	50	15
71-43-2	Benzene -	23	J	5.0	2.1
75-27-4	Bromodichloromethane	ND	J	5.0	2.0
75-25-2	Bromoform	ND	J	5.0	1.3
74-83-9	Bromomethane	ND	J	5.0	3.5
75-15-0	Carbon disulfide	ND	J	5.0	0.95
56-23-5	Carbon tetrachloride	ND	J	5.0	1.4
108-90-7	Chlorobenzene	ND	J	5.0	3.8
124-48-1	Dibromochloromethane	ND	J	5.0	1.6
75-00-3	Chloroethane -	3.9	J	5.0	1.6
67-66-3	Chloroform	ND	J	5.0	1.7
74-87-3	Chloromethane	ND	J	5.0	1.8
156-59-2	cis-1,2-Dichloroethene -	140	J	5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND	J	5.0	1.8
110-82-7	Cyclohexane	ND	J	5.0	0.90
75-71-8	Dichlorodifluoromethane	ND	J	5.0	3.4
100-41-4	Ethylbenzene -	13	J	5.0	3.7
106-93-4	1,2-Dibromoethane	ND	J	5.0	3.7
98-82-8	Isopropylbenzene -	37	J	5.0	4.0

JKS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137434-3
 Matrix: Water Lab File ID: S2566.D
 Analysis Method: 8260C Date Collected: 06/13/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	U	13	6.5
1634-04-4	Methyl tert-butyl ether -	53	J	5.0	0.80
108-87-2	Methylcyclohexane -	1.3	J	5.0	0.80
75-09-2	Methylene Chloride	ND	U	5.0	2.2
100-42-5	Styrene	ND	U	5.0	3.7
127-18-4	Tetrachloroethene	ND	U	5.0	1.8
108-88-3	Toluene -	10	J	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND	U	5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND	U	5.0	1.9
79-01-6	Trichloroethene	ND	U	5.0	2.3
75-69-4	Trichlorofluoromethane	ND	U	5.0	4.4
75-01-4	Vinyl chloride -	83	J	5.0	4.5
1330-20-7	Xylenes, Total -	160	J	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

2/25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137434-3
 Matrix: Water Lab File ID: S2566.D
 Analysis Method: 8260C Date Collected: 06/13/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/21/2018 21:59
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420936 Units: ug/L
 Number TICs Found: 5 TIC Result Total: 160

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	9.27	15	T J	
526-73-8	Benzene, 1,2,3-trimethyl-	10.16	15	T J N	94%
108-67-8	Benzene, 1,3,5-trimethyl-	10.53	69	T J N	97%
95-63-6	Benzene, 1,2,4-trimethyl-	10.94	46	T J N	95%
	Unknown	11.13	15	T J	

2/8/18

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
LAB-SBW15	480-137434-1	100 ✓	96 ✓	100 ✓	102 ✓
LAB-SBW16	480-137434-2	100	100	100	102
DUPE	480-137434-3	98	99	101	99
	MB 480-420936/11	101	103	100	97
	LCS 480-420936/9	106	99	103	105
LAB-SBW16 MS	480-137434-2 MS	98	101	102	101
LAB-SBW16 MSD	480-137434-2 MSD	96	95	100	102

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S2561.D

Lab ID: LCS 480-420936/9

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.9	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.5	106	76-120	
1,1,2-Trichloroethane	25.0	27.7	111	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.3	105	61-148	
1,1-Dichloroethane	25.0	27.0	108	77-120	
1,1-Dichloroethene	25.0	26.5	106	66-127	
1,2,4-Trichlorobenzene	25.0	27.4	110	79-122	
1,2-Dibromo-3-Chloropropane	25.0	27.6	110	56-134	
1,2-Dichlorobenzene	25.0	26.3	105	80-124	
1,2-Dichloroethane	25.0	25.7	103	75-120	
1,2-Dichloropropane	25.0	26.1	105	76-120	
1,3-Dichlorobenzene	25.0	26.2	105	77-120	
1,4-Dichlorobenzene	25.0	26.6	106	80-120	
2-Butanone (MEK)	125	129	103	57-140	
2-Hexanone	125	124	99	65-127	
4-Methyl-2-pentanone (MIBK)	125	124	99	71-125	
Acetone	125	119	96	56-142	
Benzene	25.0	26.8	107	71-124	
Bromodichloromethane	25.0	29.0	116	80-122	
Bromoform	25.0	31.3	125	61-132	
Bromomethane	25.0	25.8	103	55-144	
Carbon disulfide	25.0	28.1	113	59-134	
Carbon tetrachloride	25.0	29.3	117	72-134	
Chlorobenzene	25.0	27.2	109	80-120	
Dibromochloromethane	25.0	29.9	119	75-125	
Chloroethane	25.0	26.6	106	69-136	
Chloroform	25.0	26.0	104	73-127	
Chloromethane	25.0	25.9	104	68-124	
cis-1,2-Dichloroethene	25.0	26.6	107	74-124	
cis-1,3-Dichloropropene	25.0	28.2	113	74-124	
Cyclohexane	25.0	29.1	117	59-135	
Dichlorodifluoromethane	25.0	30.6	122	59-135	
Ethylbenzene	25.0	27.9	112	77-123	
1,2-Dibromoethane	25.0	26.0	104	77-120	
Isopropylbenzene	25.0	27.8	111	77-122	
Methyl acetate	50.0	49.1	98	74-133	
Methyl tert-butyl ether	25.0	26.2	105	77-120	
Methylcyclohexane	25.0	29.0	116	68-134	
Methylene Chloride	25.0	25.2	101	75-124	
Styrene	25.0	27.6	110	80-120	
Tetrachloroethene	25.0	27.9	112	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S2561.D
 Lab ID: LCS 480-420936/9 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	27.2	109	80-122	
trans-1,2-Dichloroethene	25.0	27.5	110	73-127	
trans-1,3-Dichloropropene	25.0	29.9	120	80-120	
Trichloroethene	25.0	27.3	109	74-123	
Trichlorofluoromethane	25.0	31.5	126	62-150	
Vinyl chloride	25.0	28.8	115	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: S2582.D

Lab ID: 480-137434-2 MS

Client ID: LAB-SBW16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	125	19	159	112	73-126	
1,1,2,2-Tetrachloroethane	125	ND	134	107	76-120	
1,1,2-Trichloroethane	125	ND	136	109	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	16	146	104	61-148	
1,1-Dichloroethane	125	35	165	104	77-120	
1,1-Dichloroethene	125	ND	134	107	66-127	
1,2,4-Trichlorobenzene	125	ND	134	107	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	133	106	56-134	
1,2-Dichlorobenzene	125	ND	128	103	80-124	
1,2-Dichloroethane	125	ND	128	102	75-120	
1,2-Dichloropropane	125	ND	125	100	76-120	
1,3-Dichlorobenzene	125	ND	130	104	77-120	
1,4-Dichlorobenzene	125	ND	132	106	78-124	
2-Butanone (MEK)	625	ND	646	103	57-140	
2-Hexanone	625	ND	642	103	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	653	104	71-125	
Acetone	625	15 J	641	103	56-142	
Benzene	125	23	156	106	71-124	
Bromodichloromethane	125	ND	142	113	80-122	
Bromoform	125	ND	151	120	61-132	
Bromomethane	125	ND	126	101	55-144	
Carbon disulfide	125	ND	143	115	59-134	
Carbon tetrachloride	125	ND	145	116	72-134	
Chlorobenzene	125	ND	138	110	80-120	
Dibromochloromethane	125	ND	154	123	75-125	
Chloroethane	125	3.3 J	132	103	69-136	
Chloroform	125	ND	130	104	73-127	
Chloromethane	125	ND	127	102	68-124	
cis-1,2-Dichloroethene	125	140	254	93	74-124	
cis-1,3-Dichloropropene	125	ND	133	106	74-124	
Cyclohexane	125	ND	144	115	59-135	
Dichlorodifluoromethane	125	ND	153	123	59-135	
Ethylbenzene	125	12	151	111	77-123	
1,2-Dibromoethane	125	ND	135	108	77-120	
Isopropylbenzene	125	35	165	104	77-122	
Methyl acetate	250	ND	256	102	74-133	
Methyl tert-butyl ether	125	55	186	105	77-120	
Methylcyclohexane	125	1.3 J	150	119	68-134	
Methylene Chloride	125	ND	127	101	75-124	
Styrene	125	ND	142	113	80-120	
Tetrachloroethene	125	ND	142	114	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2582.D

Lab ID: 480-137434-2 MS Client ID: LAB-SBW16 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	10	147	110	80-122	
trans-1,2-Dichloroethene	125	ND	138	111	73-127	
trans-1,3-Dichloropropene	125	ND	142	114	80-120	
Trichloroethene	125	ND	135	108	74-123	
Trichlorofluoromethane	125	ND	124	99	62-150	
Vinyl chloride	125	84	223	111	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S2583.D

Lab ID: 480-137434-2 MSD

Client ID: LAB-SBW16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
1,1,1-Trichloroethane	125	156	110	2	15	73-126	
1,1,2,2-Tetrachloroethane	125	135	108	1	15	76-120	
1,1,2-Trichloroethane	125	134	107	2	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	137	97	6	20	61-148	
1,1-Dichloroethane	125	163	102	1	20	77-120	
1,1-Dichloroethene	125	132	105	2	16	66-127	
1,2,4-Trichlorobenzene	125	136	109	2	20	79-122	
1,2-Dibromo-3-Chloropropane	125	140	112	6	15	56-134	
1,2-Dichlorobenzene	125	134	107	4	20	80-124	
1,2-Dichloroethane	125	126	101	1	20	75-120	
1,2-Dichloropropane	125	128	102	2	20	76-120	
1,3-Dichlorobenzene	125	134	107	3	20	77-120	
1,4-Dichlorobenzene	125	134	107	1	20	78-124	
2-Butanone (MEK)	625	620	99	4	20	57-140	
2-Hexanone	625	616	99	4	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	639	102	2	35	71-125	
Acetone	625	622	99	3	15	56-142	
Benzene	125	153	104	2	13	71-124	
Bromodichloromethane	125	138	110	3	15	80-122	
Bromoform	125	150	120	0	15	61-132	
Bromomethane	125	124	100	2	15	55-144	
Carbon disulfide	125	143	114	0	15	59-134	
Carbon tetrachloride	125	152	122	5	15	72-134	
Chlorobenzene	125	137	110	1	25	80-120	
Dibromochloromethane	125	150	120	2	15	75-125	
Chloroethane	125	133	104	1	15	69-136	
Chloroform	125	128	102	2	20	73-127	
Chloromethane	125	124	99	3	15	68-124	
cis-1,2-Dichloroethene	125	250	90	2	15	74-124	
cis-1,3-Dichloropropene	125	129	103	3	15	74-124	
Cyclohexane	125	145	116	1	20	59-135	
Dichlorodifluoromethane	125	143	114	7	20	59-135	
Ethylbenzene	125	149	109	1	15	77-123	
1,2-Dibromoethane	125	134	107	1	15	77-120	
Isopropylbenzene	125	173	111	5	20	77-122	
Methyl acetate	250	245	98	4	20	74-133	
Methyl tert-butyl ether	125	174	95	7	37	77-120	
Methylcyclohexane	125	145	115	4	20	68-134	
Methylene Chloride	125	125	100	2	15	75-124	
Styrene	125	136	109	4	20	80-120	
Tetrachloroethene	125	142	113	0	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2583.D

Lab ID: 480-137434-2 MSD Client ID: LAB-SBW16 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	125	144	107	2	15	80-122	
trans-1,2-Dichloroethene	125	137	110	1	20	73-127	
trans-1,3-Dichloropropene	125	139	111	2	15	80-120	
Trichloroethene	125	134	107	1	16	74-123	
Trichlorofluoromethane	125	135	108	8	20	62-150	
Vinyl chloride	125	227	114	2	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab File ID: S2563.D Lab Sample ID: MB 480-420936/11
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 06/21/2018 20:39
 GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-420936/9	S2561.D	06/21/2018 19:34
LAB-SBW15	480-137434-1	S2564.D	06/21/2018 21:13
LAB-SBW16	480-137434-2	S2565.D	06/21/2018 21:36
DUPE	480-137434-3	S2566.D	06/21/2018 21:59
LAB-SBW16 MS	480-137434-2 MS	S2582.D	06/22/2018 04:12
LAB-SBW16 MSD	480-137434-2 MSD	S2583.D	06/22/2018 04:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab File ID: S2504.D BFB Injection Date: 06/20/2018
 Instrument ID: HP5973S BFB Injection Time: 12:54
 Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.0 ✓
75	30.0 - 60.0 % of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.8
175	5.0 - 9.0 % of mass 174	6.2 (7.7) 1
176	95.0 - 101.0 % of mass 174	77.9 (97.6) 1
177	5.0 - 9.0 % of mass 176	4.6 (5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab File ID: S2556.D BFB Injection Date: 06/21/2018
 Instrument ID: HP5973S BFB Injection Time: 17:57
 Analysis Batch No.: 420936

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	47.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	80.2	
175	5.0 - 9.0 % of mass 174	5.2	(6.5) 1
176	95.0 - 101.0 % of mass 174	77.7	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-420936/5	S2557.D	06/21/2018	18:24
	LCS 480-420936/9	S2561.D	06/21/2018	19:34
	MB 480-420936/11	S2563.D	06/21/2018	20:39
LAB-SBW15	480-137434-1	S2564.D	06/21/2018	21:13
LAB-SBW16	480-137434-2	S2565.D	06/21/2018	21:36
DUPE	480-137434-3	S2566.D	06/21/2018	21:59
LAB-SBW16 MS	480-137434-2 MS	S2582.D	06/22/2018	04:12
LAB-SBW16 MSD	480-137434-2 MSD	S2583.D	06/22/2018	04:35

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N
 Calibration ID: 34116

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT	394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT	98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-420936/5	213578	5.51	427371	8.51	380957	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Sample No.: CCVIS 480-420936/5 Date Analyzed: 06/21/2018 18:24
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): S2557.D Heated Purge: (Y/N) N
 Calibration ID: 34119

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	213578	5.51	427371	8.51	380957	10.89	
UPPER LIMIT	427156	6.01	854742	9.01	761914	11.39	
LOWER LIMIT	106789	5.01	213686	8.01	190479	10.39	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-420936/9	199546	5.51	395432	8.51	373782	10.89	
MB 480-420936/11	202766	5.51	405806	8.51	363143	10.89	
480-137434-1	LAB-SBW15	206938	5.51	410918	8.51	374741	10.89
480-137434-2	LAB-SBW16	203501	5.51	396668	8.51	361876	10.89
480-137434-3	DUPE	204374	5.51	401656	8.51	352780	10.89
480-137434-2 MS	LAB-SBW16 MS	198451	5.51	389924	8.51	374860	10.89
480-137434-2 MSD	LAB-SBW16 MSD	203761	5.51	393328	8.51	359239	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW15 Lab Sample ID: 480-137434-1
 Matrix: Water Lab File ID: 21_12_055.D
 Analysis Method: RSK-175 Date Collected: 06/13/2018 14:30
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 13:56
 Soil Aliquot Vol: _____ Dilution Factor: 11
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	370		83	17
74-85-1	Ethene	33	J	77	17

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FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Client Sample ID: LAB-SBW16 Lab Sample ID: 480-137434-2
 Matrix: Water Lab File ID: 21_12_048.D
 Analysis Method: RSK-175 Date Collected: 06/13/2018 10:15
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 22
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	110	J	170	33
74-85-1	Ethene	ND		150	33

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FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_045.D
 Lab ID: LCS 480-420316/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	13.1	90	79-120	
Ethene	13.6	12.0	88	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_046.D
 Lab ID: LCSD 480-420316/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Ethane	14.6	13.8	95	6	50	79-120	
Ethene	13.6	12.8	94	6	50	85-120	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Lab Sample ID: MB 480-420316/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_12_044.D *clean* Lab File ID: (2) _____
 Date Analyzed: (1) 06/19/2018 09:55 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-420316/5	06/19/2018 10:12	
	LCSD 480-420316/6	06/19/2018 10:30	
LAB-SBW16	480-137434-2	06/19/2018 11:54	
LAB-SBW15	480-137434-1	06/19/2018 13:56	

1B-IN
 INORGANIC ANALYSIS DATA SHEET
 GENERAL CHEMISTRY

Client Sample ID: LAB-SBW15

Lab Sample ID: 480-137434-1

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/13/2018 14:30

Reporting Basis: WET

Date Received: 06/14/2018 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	4.0	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	571	10.0	5.6	mg/L			20	9056A
14808-79-8	Sulfate	33.1	40.0	7.0	mg/L	J		20	9056A
15438-31-0	Ferrous Iron	R 0.000	0.10	0.075	mg/L	J	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: LAB-SBW16

Lab Sample ID: 480-137434-2

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG ID.:

Matrix: Water

Date Sampled: 06/13/2018 10:15

Reporting Basis: WET

Date Received: 06/14/2018 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	363	10.0	5.6	mg/L			20	9056A
14808-79-8	Sulfate	ND	40.0	7.0	mg/L			20	9056A
15438-31-0	Ferrous Iron	R 0.086	0.10	0.075	mg/L	J	HF	1	SM 3500 FE D

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Analyst: MJB Batch Start Date: 06/20/2018
 Reporting Units: mg/L Analytical Batch No.: 420675

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:40	Sulfide	9.60	10.2	94 ✓	90-110		Sulfide CCV_00237
2	CCB	10:40	Sulfide	ND ✓					
13	CCV	10:40	Sulfide	9.60	10.2	94 ✓	90-110		Sulfide CCV_00237
14	CCB	10:40	Sulfide	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Analyst: DMR Batch Start Date: 06/20/2018
 Reporting Units: mg/L Analytical Batch No.: 420474

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
25	CCV	01:09	Chloride	46.45	50.0	93 ✓	90-110		IC_ANION_LCS__0020 7
			Sulfate	45.73	50.0	91 ✓	90-110		IC_ANION_LCS__0020 7
26	CCB	01:24	Chloride	ND ✓					
			Sulfate	ND ✓					
37	CCV	04:04	Chloride	46.49	50.0	93 ✓	90-110		IC_ANION_LCS__0020 7
			Sulfate	47.05	50.0	94 ✓	90-110		IC_ANION_LCS__0020 7
38	CCB	04:19	Chloride	ND ✓					
			Sulfate	ND ✓					
49	CCV	07:00	Chloride	47.31	50.0	95 ✓	90-110		IC_ANION_LCS__0020 7
			Sulfate	47.74	50.0	95 ✓	90-110		IC_ANION_LCS__0020 7
50	CCB	07:14	Chloride	ND ✓					
			Sulfate	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137434-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 06/18/2018
 Reporting Units: mg/L Analytical Batch No.: 420230

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:00	Ferrous Iron	1.79	2.00	90 ✓	90-110		FE 200ppm ICV_00022
2	CCB	13:00	Ferrous Iron	ND ✓					
13	CCV	13:00	Ferrous Iron	2.11	2.00	105 ✓	90-110		FE 200ppm ICV_00022
14	CCB	13:00	Ferrous Iron	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 420474 Date: 06/20/2018 01:53							
9056A	MB 480-420474/28	Chloride	ND	✓	mg/L	0.50	1
9056A	MB 480-420474/28	Sulfate	ND	✓	mg/L	2.0	1
Batch ID: 420230 Date: 06/18/2018 13:00							
SM 3500 FE D	MB 480-420230/3	Ferrous Iron	ND	✓	mg/L	0.10	1
Batch ID: 420675 Date: 06/20/2018 10:40							
SM 4500 S2 F	MB 480-420675/3	Sulfide	ND	✓	mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420474 Date: 06/20/2018 03:35											
9056A	480-137434-1	Chloride	571		mg/L						
9056A	480-137434-1	Chloride	1488		mg/L	1000	92 ✓	81-120			
	MS										
9056A	480-137434-1	Sulfate	33.1	J	mg/L						
9056A	480-137434-1	Sulfate	935.1		mg/L	1000	90 ✓	80-120			
	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

5-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420474 Date: 06/20/2018 03:50											
9056A	480-137434-1	Chloride	1453		mg/L	1000	88	81-120	2	20	
	MSD										
9056A	480-137434-1	Sulfate	924.9		mg/L	1000	89	80-120	1	20	
	MSD										

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137434-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420474 Date: 06/20/2018 01:39											
						LCS Source: IC_ANION_LCS_00207					
9056A	LCS 480-420474/27	Chloride	46.27		mg/L	50.0	93	90-110			
9056A	LCS 480-420474/27	Sulfate	45.93		mg/L	50.0	92	90-110			
Batch ID: 420230 Date: 06/18/2018 13:00											
						LCS Source: FE 200ppm ICV_00022					
SM 3500 FE D	LCS 480-420230/4	Ferrous Iron	1.88		mg/L	2.00	94	90-110			
Batch ID: 420675 Date: 06/20/2018 10:40											
						LCS Source: Sulfide LCS_00237					
SM 4500 S2 F	LCS 480-420675/4	Sulfide	8.80		mg/L	8.80	100	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

FORMER EMERSON LANDFILL

Project 210173

SDG: 480-137527

Sampled 6/14/2018

VOLATILE ORGANICS, CHLORIDE, SULFATE, SULFIDE
NITRATE, NITRITE, ETHANE, ETHENE, IRON

ML-7-I (480-137527-1)

ML-7-D (480-137527-2)

DUPE (480-137527-3)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for three groundwater samples was received from Labella Associates, P.C. on 02Jul18. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Former Emerson Street Landfill Site, were identified by Chain of Custody documents and traceable through the work of TestAmerica-Buffalo, the laboratory contracted for analysis. The analyses, performed according to EPA Methods, addressed determinations of volatile organics, chloride, sulfate, sulfide, nitrate, nitrite, ethane, ethene and ferrous iron. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) and the cited methods were used as a technical reference.

The acetone and 2-butanone concentrations found in ML-7-D and the DUPE have been qualified as estimations because they may represent laboratory artifacts.

The ferrous iron results from this project have been rejected because the samples were not analyzed at the time of collection.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Data felt to be unreliable has been identified with a single red line and flagged "R". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL Inc.

Date:

14 July 18

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days. Nitrate and nitrite must be determined within one day. Sulfide samples must be analyzed within seven days and chloride and sulfate analyses must be completed within 28 days. Ferrous iron analyses should be performed in the field at the time of sample collection.

This delivery group contained three groundwater samples that were collected from the Former Emerson Street Landfill Site and shipped to the laboratory, via FedEx, on 14Jun18. The shipment arrived the following morning. At the time of receipt the sample cooler was found to be intact and packed with ice. Although custody seals were not found on the sample cooler, the lab indicated that the cooler was sealed with tape and showed no evidence of tampering. A cooler temperature of 3.3°C, was recorded at the time of receipt. Proper sample preservation was documented in the field custody record and verified in the laboratory. A pH<2 was recorded for each VOC sample at the time of analysis.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 23Jun18. The SW-846 holding time requirements were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

Although not detected in the blank, acetone and 2-butanone were found in ML-7-D and the DUPE. These concentrations have been qualified as estimations because low levels of acetone and 2-butanone frequently represent laboratory artifacts. Acetone and 2-butanone (MEK) could not be removed from the affected sample reports because they were not found in the associated blank.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately

detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration for VOC was performed on 20Jun18. Standards of 0.5, 1.0, 2.0, 5.0, 10, 25, 50 and 100 µg/l were included. Each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration.

A calibration check standard was analyzed on 23Jun18, prior to the twelve-hour period of instrument operation that included samples from this program. When compared to the initial calibration, each targeted analyte demonstrated an acceptable level of instrument stability.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this

criteria, acceptable performance was reported for the internal standard additions to each program sample.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

ML-7-D was selected for matrix spiking. The entire list of targeted analytes was added to two aliquots of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement precision and accuracy.

A spiked blank (LCS) was also analyzed with this group of samples. This LCS sample produced acceptable analyte recoveries.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

The blind field duplicate sample that was included in this delivery group was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument print-outs. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were reported.

ETHANE AND ETHENE

Ethane and ethene were also determined by gas chromatography. These analyses were completed within five days of collection and were associated with a clean blank and spiked blanks that demonstrated acceptable levels of measurement precision and accuracy. The ethane and ethene results from this project should be considered completely usable as presented.

WET CHEMISTRY

Nitrite, nitrate, chloride, sulfate, sulfide and ferrous iron were determined by wet chemistry methods. Nitrate and nitrite analyses were completed on 15Jun18; and chloride, sulfate and sulfide determinations were completed on 21Jun18. The ASP holding time limitations were satisfied.

Nitrate (NO₃) concentrations are obtained by analyzing each sample for a total concentration of nitrate plus nitrite (NO₂+NO₃) and subtracting the result of a nitrite (NO₂) determination. Although QC results were not reported for nitrate, acceptable calibration check standards and LCS recoveries were found in the raw data by this reviewer. Data qualifications are not required.

Both program samples were analyzed for ferrous iron on 18Jun18. These results must be considered unreliable because ferrous analyses should be performed at the time of sample collection. ML-7-I and ML-7-D were held for four days prior to analysis.

Each nitrite, nitrate, chloride, sulfate, sulfide and ferrous iron analysis was associated with a linear calibration curve and was bracketed by calibration check standards that were recovered successfully. The method blanks were clean and the spiked blanks (LCS) produced acceptable recoveries of nitrite, nitrate, chloride, sulfate and sulfide.

SUMMARY OF QUALIFIED DATA

EMERSON STREET LANDFILL SITE

SAMPLED: 6/14/18

	BLANK ACETONE	BLANK MEK	SAMPLING FERROUS
ML-7-I (480-137527-1)			REJECT
ML-7-D (480-137527-2)	26J	12J	REJECT
DUPE (480-137527-3)	29J	12J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: S2655.D
 Analysis Method: 8260C Date Collected: 06/14/2018 10:05
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	41		20	6.2
75-34-3	1,1-Dichloroethane	460		20	7.6
75-35-4	1,1-Dichloroethene	ND		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	23		20	8.2
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
124-48-1	Dibromochloromethane	ND		20	6.4
75-00-3	Chloroethane	50		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	560		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
75-71-8	Dichlorodifluoromethane	22		20	14
100-41-4	Ethylbenzene	ND		20	15
106-93-4	1,2-Dibromoethane	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: S2655.D
 Analysis Method: 8260C Date Collected: 06/14/2018 10:05
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		50	26
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene -	90		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	ND		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride -	360		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

MS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: S2655.D
 Analysis Method: 8260C Date Collected: 06/14/2018 10:05
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 20
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Z/S

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: S2656.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane -	66		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4		5.0	1.6
75-34-3	1,1-Dichloroethane -	170		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK) -	12	JJ	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone -	26	JJ	50	15
71-43-2	Benzene -	7.7		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane -	27		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene -	58		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: S2656.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether -	1.7	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene -	14		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride -	16		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

2/15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: S2656.D
 Analysis Method: 8260C Date Collected: 06/14/2018 14:05
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 16:07
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 54

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
109-99-9	Furan, tetrahydro- ✓	4.71	54	T J N	90%

785

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137527-3
 Matrix: Water Lab File ID: S2657.D
 Analysis Method: 8260C Date Collected: 06/14/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 16:30
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane -	69		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	J	5.0	1.6
75-34-3	1,1-Dichloroethane -	180		5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
78-93-3	2-Butanone (MEK) -	12	J	50	6.6
591-78-6	2-Hexanone	ND		25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone -	29	J	50	15
71-43-2	Benzene -	8.0		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane -	26		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene -	64		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137527-3
 Matrix: Water Lab File ID: S2657.D
 Analysis Method: 8260C Date Collected: 06/14/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 16:30
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		13	6.5
1634-04-4	Methyl tert-butyl ether -	1.7	J	5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	ND		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene -	13		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride -	16		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123

TAS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: DUPE Lab Sample ID: 480-137527-3
 Matrix: Water Lab File ID: S2657.D
 Analysis Method: 8260C Date Collected: 06/14/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/23/2018 16:30
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 421204 Units: ug/L
 Number TICs Found: 1 TIC Result Total: 55

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
109-99-9	Furan, tetrahydro- ✓	4.71	55	T J N	91%

TJN

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ML-7-I	480-137527-1	98 ✓	101 ✓	102 ✓	97 ✓
ML-7-D	480-137527-2	102	104	98	97
DUPE	480-137527-3	107	105	100	98
	MB 480-421204/7	106	105	104	101
	LCS 480-421204/5	101	98	101	100
ML-7-D MS	480-137527-2 MS	105	105	103	101
ML-7-D MSD	480-137527-2 MSD	102	105	103	98

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC LIMITS

75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: S2644.D

Lab ID: LCS 480-421204/5

Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.6	102	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.7	95	76-120	
1,1,2-Trichloroethane	25.0	24.3	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5	94	61-148	
1,1-Dichloroethane	25.0	24.5	98	77-120	
1,1-Dichloroethene	25.0	25.6	103	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	24.2	97	56-134	
1,2-Dichlorobenzene	25.0	24.5	98	80-124	
1,2-Dichloroethane	25.0	23.9	95	75-120	
1,2-Dichloropropane	25.0	23.9	96	76-120	
1,3-Dichlorobenzene	25.0	25.5	102	77-120	
1,4-Dichlorobenzene	25.0	24.9	99	80-120	
2-Butanone (MEK)	125	118	94	57-140	
2-Hexanone	125	111	88	65-127	
4-Methyl-2-pentanone (MIBK)	125	109	87	71-125	
Acetone	125	116	93	56-142	
Benzene	25.0	24.9	100	71-124	
Bromodichloromethane	25.0	25.5	102	80-122	
Bromoform	25.0	25.9	104	61-132	
Bromomethane	25.0	22.3	89	55-144	
Carbon disulfide	25.0	24.2	97	59-134	
Carbon tetrachloride	25.0	28.3	113	72-134	
Chlorobenzene	25.0	25.1	100	80-120	
Dibromochloromethane	25.0	26.9	108	75-125	
Chloroethane	25.0	22.9	92	69-136	
Chloroform	25.0	24.2	97	73-127	
Chloromethane	25.0	20.9	84	68-124	
cis-1,2-Dichloroethene	25.0	25.3	101	74-124	
cis-1,3-Dichloropropene	25.0	24.9	99	74-124	
Cyclohexane	25.0	27.7	111	59-135	
Dichlorodifluoromethane	25.0	20.4	82	59-135	
Ethylbenzene	25.0	25.9	104	77-123	
1,2-Dibromoethane	25.0	23.2	93	77-120	
Isopropylbenzene	25.0	26.5	106	77-122	
Methyl acetate	50.0	43.1	86	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	27.4	110	68-134	
Methylene Chloride	25.0	22.2	89	75-124	
Styrene	25.0	25.1	100	80-120	
Tetrachloroethene	25.0	25.7	103	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2644.D

Lab ID: LCS 480-421204/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS	QC	#
			% REC	LIMITS REC	
Toluene	25.0	25.3	101	80-122	
trans-1,2-Dichloroethene	25.0	25.3	101	73-127	
trans-1,3-Dichloropropene	25.0	25.3	101	80-120	
Trichloroethene	25.0	25.3	101	74-123	
Trichlorofluoromethane	25.0	22.8	91	62-150	
Vinyl chloride	25.0	22.4	90	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: S2665.D

Lab ID: 480-137527-2 MS

Client ID: ML-7-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS	QC	#
				% REC	LIMITS REC	
1,1,1-Trichloroethane	125	66	201	108	73-126	
1,1,2,2-Tetrachloroethane	125	ND	127	102	76-120	
1,1,2-Trichloroethane	125	ND	131	105	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	6.4	156	120	61-148	
1,1-Dichloroethane	125	170	290	99	77-120	
1,1-Dichloroethene	125	ND	147	117	66-127	
1,2,4-Trichlorobenzene	125	ND	131	105	79-122	
1,2-Dibromo-3-Chloropropane	125	ND	133	106	56-134	
1,2-Dichlorobenzene	125	ND	124	99	80-124	
1,2-Dichloroethane	125	ND	127	101	75-120	
1,2-Dichloropropane	125	ND	128	102	76-120	
1,3-Dichlorobenzene	125	ND	125	100	77-120	
1,4-Dichlorobenzene	125	ND	129	103	78-124	
2-Butanone (MEK)	625	12 J	667	105	57-140	
2-Hexanone	625	ND	585	94	65-127	
4-Methyl-2-pentanone (MIBK)	625	ND	590	94	71-125	
Acetone	625	26 J	650	100	56-142	
Benzene	125	7.7	138	104	71-124	
Bromodichloromethane	125	ND	142	114	80-122	
Bromoform	125	ND	141	113	61-132	
Bromomethane	125	ND	118	94	55-144	
Carbon disulfide	125	ND	129	103	59-134	
Carbon tetrachloride	125	ND	149	119	72-134	
Chlorobenzene	125	ND	129	104	80-120	
Dibromochloromethane	125	ND	140	112	75-125	
Chloroethane	125	27	147	96	69-136	
Chloroform	125	ND	127	102	73-127	
Chloromethane	125	ND	106	85	68-124	
cis-1,2-Dichloroethene	125	58	187	103	74-124	
cis-1,3-Dichloropropene	125	ND	134	107	74-124	
Cyclohexane	125	ND	145	116	59-135	
Dichlorodifluoromethane	125	ND	106	85	59-135	
Ethylbenzene	125	ND	134	108	77-123	
1,2-Dibromoethane	125	ND	125	100	77-120	
Isopropylbenzene	125	ND	132	106	77-122	
Methyl acetate	250	ND	240	96	74-133	
Methyl tert-butyl ether	125	1.7 J	132	104	77-120	
Methylcyclohexane	125	ND	147	118	68-134	
Methylene Chloride	125	ND	119	95	75-124	
Styrene	125	ND	131	104	80-120	
Tetrachloroethene	125	ND	130	104	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2665.D

Lab ID: 480-137527-2 MS Client ID: ML-7-D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	125	ND	133	106	80-122	
trans-1,2-Dichloroethene	125	ND	138	110	73-127	
trans-1,3-Dichloropropene	125	ND	127	102	80-120	
Trichloroethene	125	14	142	103	74-123	
Trichlorofluoromethane	125	ND	130	104	62-150	
Vinyl chloride	125	16	133	94	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: S2666.D

Lab ID: 480-137527-2 MSD

Client ID: ML-7-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	125	200	107	1	15	73-126	
1,1,2,2-Tetrachloroethane	125	132	105	3	15	76-120	
1,1,2-Trichloroethane	125	125	100	5	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	125	136	103	14	20	61-148	
1,1-Dichloroethane	125	292	100	1	20	77-120	
1,1-Dichloroethene	125	139	111	5	16	66-127	
1,2,4-Trichlorobenzene	125	131	105	0	20	79-122	
1,2-Dibromo-3-Chloropropane	125	125	100	6	15	56-134	
1,2-Dichlorobenzene	125	129	103	4	20	80-124	
1,2-Dichloroethane	125	128	103	1	20	75-120	
1,2-Dichloropropane	125	127	101	1	20	76-120	
1,3-Dichlorobenzene	125	129	103	3	20	77-120	
1,4-Dichlorobenzene	125	128	103	1	20	78-124	
2-Butanone (MEK)	625	641	101	4	20	57-140	
2-Hexanone	625	569	91	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	625	583	93	1	35	71-125	
Acetone	625	664	102	2	15	56-142	
Benzene	125	141	106	2	13	71-124	
Bromodichloromethane	125	140	112	1	15	80-122	
Bromoform	125	141	113	0	15	61-132	
Bromomethane	125	118	94	0	15	55-144	
Carbon disulfide	125	131	105	1	15	59-134	
Carbon tetrachloride	125	145	116	3	15	72-134	
Chlorobenzene	125	134	107	4	25	80-120	
Dibromochloromethane	125	145	116	3	15	75-125	
Chloroethane	125	150	99	2	15	69-136	
Chloroform	125	129	103	2	20	73-127	
Chloromethane	125	108	86	1	15	68-124	
cis-1,2-Dichloroethene	125	190	106	1	15	74-124	
cis-1,3-Dichloropropene	125	134	107	0	15	74-124	
Cyclohexane	125	137	109	6	20	59-135	
Dichlorodifluoromethane	125	107	86	1	20	59-135	
Ethylbenzene	125	135	108	1	15	77-123	
1,2-Dibromoethane	125	128	102	3	15	77-120	
Isopropylbenzene	125	138	111	4	20	77-122	
Methyl acetate	250	240	96	0	20	74-133	
Methyl tert-butyl ether	125	129	102	2	37	77-120	
Methylcyclohexane	125	148	118	0	20	68-134	
Methylene Chloride	125	120	96	1	15	75-124	
Styrene	125	134	108	3	20	80-120	
Tetrachloroethene	125	132	106	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: S2666.D

Lab ID: 480-137527-2 MSD Client ID: ML-7-D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	125	134	107	1	15	80-122	
trans-1,2-Dichloroethene	125	141	113	2	20	73-127	
trans-1,3-Dichloropropene	125	133	106	4	15	80-120	
Trichloroethene	125	146	106	2	16	74-123	
Trichlorofluoromethane	125	140	112	7	20	62-150	
Vinyl chloride	125	137	97	3	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab File ID: S2646.D Lab Sample ID: MB 480-421204/7
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 06/23/2018 11:54
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421204/5	S2644.D	06/23/2018 11:07
ML-7-I	480-137527-1	S2655.D	06/23/2018 15:43
ML-7-D	480-137527-2	S2656.D	06/23/2018 16:07
DUPE	480-137527-3	S2657.D	06/23/2018 16:30
ML-7-D MS	480-137527-2 MS	S2665.D	06/23/2018 19:36
ML-7-D MSD	480-137527-2 MSD	S2666.D	06/23/2018 19:59

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab File ID: S2504.D BFB Injection Date: 06/20/2018
 Instrument ID: HP5973S BFB Injection Time: 12:54
 Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.0 ✓
75	30.0 - 60.0 % of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.8
175	5.0 - 9.0 % of mass 174	6.2 (7.7) 1
176	95.0 - 101.0 % of mass 174	77.9 (97.6) 1
177	5.0 - 9.0 % of mass 176	4.6 (5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34 ✓

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab File ID: S2641.D BFB Injection Date: 06/23/2018
 Instrument ID: HP5973S BFB Injection Time: 09:52
 Analysis Batch No.: 421204

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.2	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.4	
175	5.0 - 9.0 % of mass 174	5.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	76.8	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421204/3	S2642.D	06/23/2018	10:20
	LCS 480-421204/5	S2644.D	06/23/2018	11:07
	MB 480-421204/7	S2646.D	06/23/2018	11:54
ML-7-I	480-137527-1	S2655.D	06/23/2018	15:43
ML-7-D	480-137527-2	S2656.D	06/23/2018	16:07
DUPE	480-137527-3	S2657.D	06/23/2018	16:30
ML-7-D MS	480-137527-2 MS	S2665.D	06/23/2018	19:36
ML-7-D MSD	480-137527-2 MSD	S2666.D	06/23/2018	19:59

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N
 Calibration ID: 34116

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT	394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT	98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-421204/3	200347	5.51	390439	8.51	349453	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Sample No.: CCVIS 480-421204/3 Date Analyzed: 06/23/2018 10:20
 Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)
 Lab File ID (Standard): S2642.D Heated Purge: (Y/N) N
 Calibration ID: 34119

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		200347	5.51	390439	8.51	349453	10.89
UPPER LIMIT		400694	6.01	780878	9.01	698906	11.39
LOWER LIMIT		100174	5.01	195220	8.01	174727	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421204/5		195959	5.51	388813	8.51	353233	10.89
MB 480-421204/7		349725	5.51	714901	8.52	671304	10.89
480-137527-1	ML-7-I	189817	5.51	366885	8.51	336223	10.89
480-137527-2	ML-7-D	186617	5.51	383275	8.51	331313	10.89
480-137527-3	DUPE	176854	5.51	369485	8.51	334952	10.89
480-137527-2 MS	ML-7-D MS	179420	5.51	369738	8.51	351550	10.89
480-137527-2 MSD	ML-7-D MSD	183304	5.51	373559	8.51	351188	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-I Lab Sample ID: 480-137527-1
 Matrix: Water Lab File ID: 21_12_057.D
 Analysis Method: RSK-175 Date Collected: 06/14/2018 10:05
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 14:31
 Soil Aliquot Vol.: _____ Dilution Factor: 11
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	120		83	17
74-85-1	Ethene	700		77	17

755

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Client Sample ID: ML-7-D Lab Sample ID: 480-137527-2
 Matrix: Water Lab File ID: 21_12_050.D
 Analysis Method: RSK-175 Date Collected: 06/14/2018 14:05
 Sample wt/vol: 17(mL) Date Analyzed: 06/19/2018 12:29
 Soil Aliquot Vol.: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 420316 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-84-0	Ethane	37		7.5	1.5
74-85-1	Ethene	ND		7.0	1.5

MS

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_045.D
 Lab ID: LCS 480-420316/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethane	14.6	13.1	90	79-120	
Ethene	13.6	12.0	88	85-120	

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Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 21_12_046.D
 Lab ID: LCSD 480-420316/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD		QC LIMITS		#
			% REC	% RPD	RPD	REC	
Ethane	14.6	13.8	95	6	50	79-120	
Ethene	13.6	12.8	94	6	50	85-120	

MS

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Lab Sample ID: MB 480-420316/4
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_12_044.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/19/2018 09:55 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53(mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE		✓ DATE ANALYZED 2
		ANALYZED 1		
	LCS 480-420316/5	06/19/2018	10:12	
	LCSD 480-420316/6	06/19/2018	10:30	
ML-7-D	480-137527-2	06/19/2018	12:29	
ML-7-I	480-137527-1	06/19/2018	14:31	

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7-I

Lab Sample ID: 480-137527-1

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2018 10:05

Reporting Basis: WET

Date Received: 06/15/2018 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	ND	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	ND	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	933	5.0	2.8	mg/L			10	9056A
14808-79-8	Sulfate	ND	20.0	3.5	mg/L			10	9056A
15438-31-0	Ferrous Iron	R ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

MS

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: ML-7-D

Lab Sample ID: 480-137527-2

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG ID.: _____

Matrix: Water

Date Sampled: 06/14/2018 14:05

Reporting Basis: WET

Date Received: 06/15/2018 10:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-65-0	Nitrite	0.086	0.050	0.020	mg/L as N			1	353.2
18496-25-8	Sulfide	ND	1.0	0.67	mg/L			1	SM 4500 S2 F
14797-55-8	Nitrate	9.7	0.050	0.020	mg/L as N			1	353.2
16887-00-6	Chloride	796	10.0	5.6	mg/L			20	9056A
14808-79-8	Sulfate	868	40.0	7.0	mg/L			20	9056A
15438-31-0	Ferrous Iron	R ND	0.10	0.075	mg/L		HF	1	SM 3500 FE D

7/8/18

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
SDG No.: _____
Analyst: DCB Batch Start Date: 06/15/2018
Reporting Units: mg/L Analytical Batch No.: 419956

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:28	Nitrite	1.42	1.50	95 ✓	90-110		Nitrite CCV_00879
2	CCB	20:29	Nitrite	ND ✓					
13	CCV	20:41	Nitrite	1.41	1.50	94 ✓	90-110		Nitrite CCV_00879
14	CCB	20:42	Nitrite	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Analyst: MJB Batch Start Date: 06/21/2018
 Reporting Units: mg/L Analytical Batch No.: 420855

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:44	Sulfide	10.00	10.0	100 ✓	90-110		Sulfide CCV_00238
2	CCB	10:44	Sulfide	ND ✓					
13	CCV	10:44	Sulfide	10.00	10.0	100 ✓	90-110		Sulfide CCV_00238
14	CCB	10:44	Sulfide	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.:

Analyst: DMR

Batch Start Date: 06/21/2018

Reporting Units: mg/L

Analytical Batch No.: 420962

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	20:30	Chloride	50.54	50.0	101 ✓	90-110		IC_ANION_LCS__0020 7
			Sulfate	51.24	50.0	102	90-110		IC_ANION_LCS__0020 7
2	CCB	20:38	Chloride	ND ✓					
			Sulfate	ND					
13	CCV	22:08	Chloride	51.17	50.0	102 ✓	90-110		IC_ANION_LCS__0020 7
			Sulfate	51.40	50.0	103 ✓	90-110		IC_ANION_LCS__0020 7
14	CCB	22:16	Chloride	ND ✓					
			Sulfate	ND					
25	CCV	23:46	Chloride	51.16	50.0	102 ✓	90-110		IC_ANION_LCS__0020 7
			Sulfate	51.01	50.0	102 ✓	90-110		IC_ANION_LCS__0020 7
26	CCB	23:54	Chloride	ND ✓					
			Sulfate	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
 CALIBRATION QUALITY CONTROL
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1
 SDG No.: _____
 Analyst: MDL Batch Start Date: 06/18/2018
 Reporting Units: mg/L Analytical Batch No.: 420230

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:00	Ferrous Iron	1.79	2.00	90 ✓	90-110		FE 200ppm ICV_00022
2	CCB	13:00	Ferrous Iron	ND ✓					
13	CCV	13:00	Ferrous Iron	2.11	2.00	105 ✓	90-110		FE 200ppm ICV_00022
14	CCB	13:00	Ferrous Iron	ND ✓					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 419956 Date: 06/15/2018 20:30							
353.2	MB 480-419956/3	Nitrite	ND	✓	mg/L as N	0.050	1
Batch ID: 420962 Date: 06/21/2018 20:55							
9056A	MB 480-420962/4	Chloride	ND	✓	mg/L	0.50	1
9056A	MB 480-420962/4	Sulfate	ND		mg/L	2.0	1
Batch ID: 420230 Date: 06/18/2018 13:00							
SM 3500 FE D	MB 480-420230/3	Ferrous Iron	ND	✓	mg/L	0.10	1
Batch ID: 420855 Date: 06/21/2018 10:44							
SM 4500 S2 F	MB 480-420855/3	Sulfide	ND	✓	mg/L	1.0	1

5-IN
 MATRIX SPIKE SAMPLE RECOVERY
 GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137527-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 420230 Date: 06/18/2018 13:00											
SM 3500	480-137527-2	Ferrous Iron	ND		mg/L						HF
FE D											
SM 3500	480-137527-2	Ferrous Iron	0.975		mg/L	1.00	97 ✓	70-130			
FE D	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-137527-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 419956 Date: 06/15/2018 20:31			LCS Source: Nitrite CCV_00879								
353.2	LCS 480-419956/4	Nitrite	1.40		mg/L as N	1.50	93 ✓	90-110			
Batch ID: 420962 Date: 06/21/2018 20:46			LCS Source: IC_ANION_LCS_00207								
9056A	LCS 480-420962/3	Chloride	50.62		mg/L	50.0	101 ✓	90-110			
9056A	LCS 480-420962/3	Sulfate	51.34		mg/L	50.0	103 ✓	90-110			
Batch ID: 420230 Date: 06/18/2018 13:00			LCS Source: FE 200ppm ICV_00022								
SM 3500 FE D	LCS 480-420230/4	Ferrous Iron	1.88		mg/L	2.00	94 ✓	90-110			
Batch ID: 420855 Date: 06/21/2018 10:44			LCS Source: Sulfide LCS_00238								
SM 4500 S2 F	LCS 480-420855/4	Sulfide	8.80		mg/L	9.20	96 ✓	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.